Full wwPDB EM Validation Report

Mar 6, 2026 – 07:09 AM UTC

PDB ID	:	8OTZ / pdb_00008otz
EMDB ID	:	EMD-17187
Title	:	48-nm repeat of the native axonemal doublet microtubule from bovine sperm
Authors	:	Leung, M.R.; Zeng, J.; Zhang, R.; Zeev-Ben-Mordehai, T.
Deposited on	:	2023-04-21
Resolution	:	3.60 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:

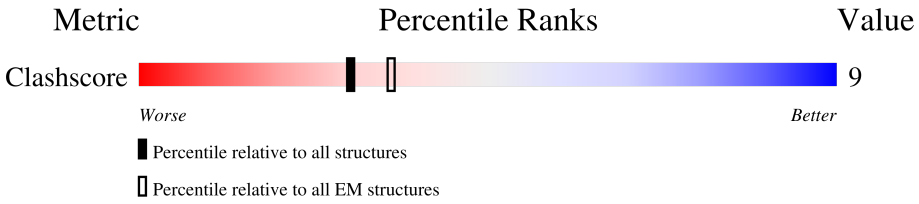
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data 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

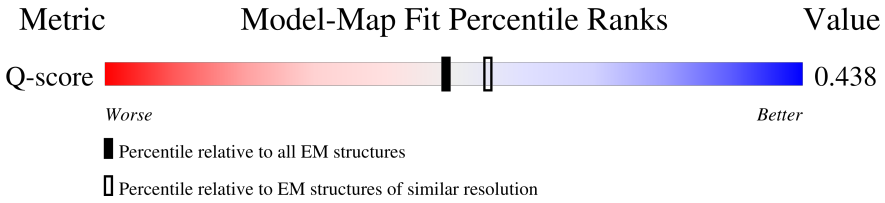
1 Overall quality at a glance

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

The reported resolution of this entry is 3.60 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	-
Q-score	-	25397	12797 (3.10 - 4.10)

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	0	232	16% · 83%
1	V	232	5% 61% 17% · 21%
2	0A	224	11% 54% 15% · 30%
2	0C	224	17% 51% 18% 30%
2	0E	224	25% 50% 20% 30%
2	0G	224	17% 60% 9% 30%

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Mol	Chain	Length	Quality of chain
2	0W	224	13% 62% 7% 30%
2	0Y	224	12% 50% 19% 30%
2	0a	224	10% 54% 16% 30%
2	0c	224	17% 53% 16% 30%
2	0e	224	5% 56% 13% 31%
2	0g	224	11% 54% 15% 30%
2	0i	224	15% 46% 21% 30%
2	0k	224	17% 51% 19% 30%
2	CT	224	9% 50% 20% 30%
2	CU	224	10% 47% 22% 31%
2	CV	224	24% 49% 21% 30%
2	CX	224	7% 49% 21% 30%
2	CY	224	16% 53% 16% 30%
2	CZ	224	10% 59% 10% 30%
2	Ca	224	10% 56% 13% 30%
2	Cb	224	8% 49% 21% 30%
2	Cc	224	9% 54% 15% 30%
2	Cd	224	15% 52% 17% 30%
2	Ce	224	26% 56% 12% 31%
2	Cf	224	21% 51% 18% 31%
2	Cg	224	15% 53% 16% 30%
2	Ch	224	13% 59% 10% 30%
2	Ci	224	12% 51% 18% 30%
2	Cj	224	17% 54% 16% 31%
2	Ck	224	23% 48% 21% 30%

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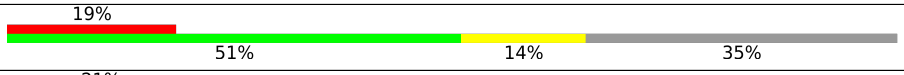
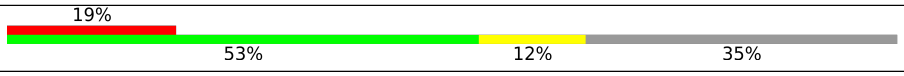
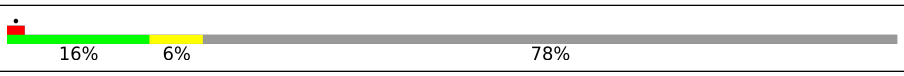
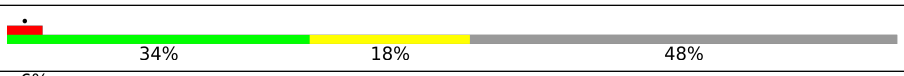
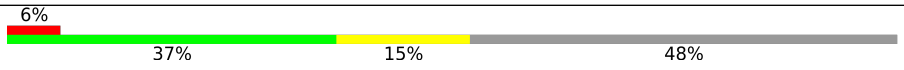
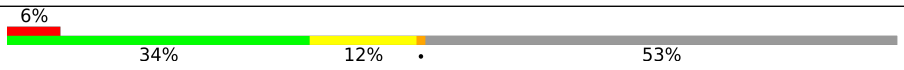
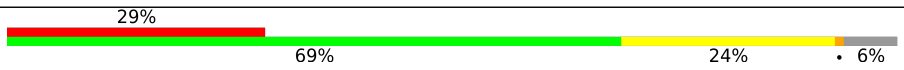
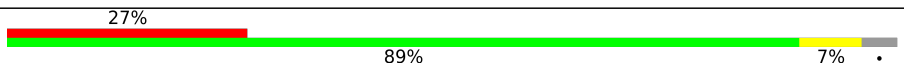
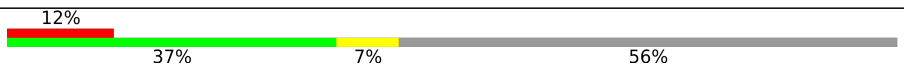
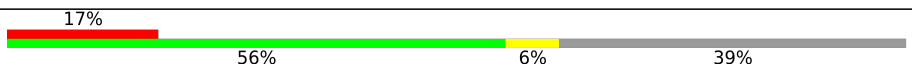
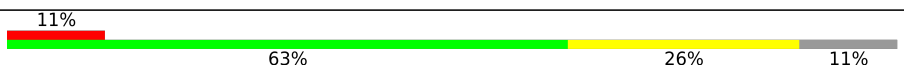
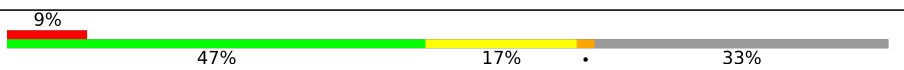
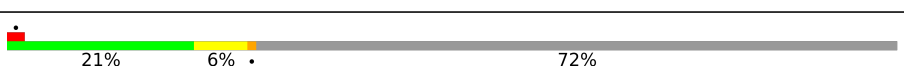
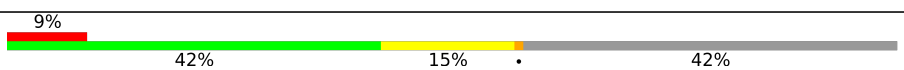
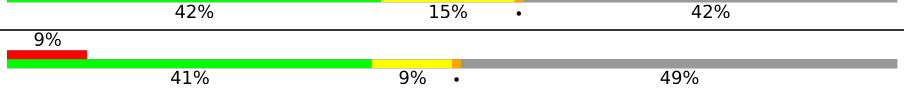
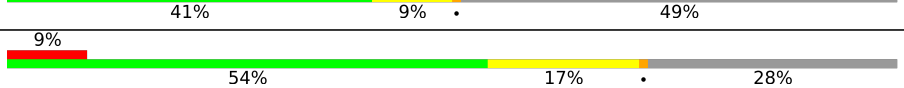
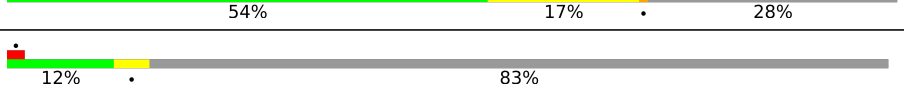
Mol	Chain	Length	Quality of chain
3	1	273	
3	2	273	
3	x	273	
4	3	275	
4	y	275	
4	z	275	
5	A	176	
5	B	176	
5	C	176	
6	A0	274	
6	BN	274	
7	A1	254	
7	A2	254	
7	A3	254	
7	A4	254	
7	A5	254	
7	A6	254	
7	A7	254	
7	A8	254	
7	A9	254	
7	Au	254	
7	Av	254	
7	Aw	254	
7	Ay	254	
7	Az	254	

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Mol	Chain	Length	Quality of chain
8	AA	450	78% 20%
8	AC	450	81% 17%
8	AE	450	78% 20%
8	AG	450	82% 15%
8	AI	450	83% 15%
8	AK	450	79% 18%
8	AM	450	82% 16%
8	BA	450	71% 25% 5%
8	BC	450	76% 21%
8	BE	450	76% 19%
8	BG	450	5% 76% 21%
8	BI	450	74% 21% 5%
8	BK	450	73% 24%
8	BM	450	75% 20%
8	CA	450	20% 74% 24%
8	CC	450	9% 74% 23%
8	CE	450	7% 74% 23%
8	CG	450	10% 75% 21%
8	CI	450	7% 80% 17%
8	CK	450	9% 74% 23%
8	CM	450	8% 76% 21%
8	DA	450	21% 60% 24% 16%
8	DC	450	12% 70% 25% 5%
8	DE	450	8% 70% 25% 5%
8	DG	450	10% 75% 21%

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Mol	Chain	Length	Quality of chain
8	DI	450	9% 70% 25% 5%
8	DK	450	10% 71% 24% 5%
8	DM	450	12% 69% 26% 5%
8	EC	450	14% 69% 27%
8	EE	450	12% 76% 22%
8	EG	450	8% 74% 23%
8	EI	450	8% 75% 22%
8	EK	450	13% 71% 26%
8	EM	450	11% 71% 24% 5%
8	FC	450	9% 73% 23% 5%
8	FE	450	6% 72% 21% 6%
8	FG	450	5% 70% 26%
8	FI	450	6% 66% 28% 6%
8	FK	450	5% 72% 23% 5%
8	FM	450	5% 80% 16% 5%
8	GC	450	8% 77% 20%
8	GE	450	6% 79% 17%
8	GG	450	7% 75% 20%
8	GI	450	6% 74% 23%
8	GK	450	75% 20%
8	GM	450	7% 78% 20%
8	HC	450	6% 79% 17% 5%
8	HE	450	75% 20% 5%
8	HG	450	6% 78% 18%
8	HI	450	7% 77% 18%

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Mol	Chain	Length	Quality of chain
8	HK	450	73% 22%
8	HM	450	6% 82% 14%
8	HO	450	7% 65% 20% 14%
8	IC	450	78% 18%
8	IE	450	80% 16%
8	IG	450	78% 19%
8	II	450	5% 76% 20%
8	IK	450	72% 23%
8	IM	450	83% 14%
8	IO	450	74% 21% 5%
8	JC	450	6% 79% 18%
8	JE	450	80% 16%
8	JG	450	79% 16% 5%
8	JI	450	79% 16% 5%
8	JK	450	78% 19%
8	JM	450	79% 16%
8	KC	450	78% 18%
8	KE	450	82% 14%
8	KG	450	75% 20%
8	KI	450	76% 19% 5%
8	KK	450	86% 10%
8	KM	450	87% 9%
8	KO	450	76% 15% 9%
8	LC	450	77% 21%
8	LE	450	92% 7%

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Mol	Chain	Length	Quality of chain
8	LG	450	83% 15%
8	LI	450	6% 86% 13%
8	LK	450	84% 14%
8	LM	450	82% 14%
8	MC	450	83% 14%
8	ME	450	77% 18% 5%
8	MG	450	78% 18%
8	MI	450	80% 16%
8	MK	450	80% 18%
8	MM	450	78% 18%
8	NA	450	11% 76% 19% 5%
8	NC	450	13% 70% 24% 5%
8	NE	450	9% 78% 18%
8	NG	450	11% 75% 21%
8	NI	450	12% 74% 20% 5%
8	NK	450	16% 74% 21% 5%
8	OA	450	8% 75% 20% 5%
8	OC	450	8% 68% 27% 5%
8	OE	450	6% 72% 24%
8	OG	450	8% 74% 22%
8	OI	450	10% 72% 24%
8	OK	450	7% 73% 23%
8	PA	450	9% 76% 19%
8	PC	450	10% 69% 27%
8	PE	450	10% 70% 26%

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Mol	Chain	Length	Quality of chain
8	PG	450	13% 71% 25%
8	PI	450	8% 69% 26% 5%
8	PK	450	7% 74% 21% 5%
8	PM	450	9% 73% 22%
8	QA	450	18% 74% 20% 5%
8	QC	450	17% 67% 28% 5%
8	QE	450	14% 67% 29%
8	QG	450	16% 68% 28%
8	QI	450	9% 66% 29% 5%
8	QK	450	16% 69% 26%
8	QM	450	13% 68% 28%
8	RA	450	18% 66% 29% 5%
8	RC	450	12% 70% 26%
8	RE	450	10% 68% 27% 5%
8	RG	450	15% 70% 26%
8	RI	450	11% 67% 28%
8	RK	450	15% 72% 24%
8	RM	450	18% 68% 27% 5%
8	SA	450	18% 72% 23% 5%
8	SC	450	9% 67% 29%
8	SE	450	68% 28%
8	SG	450	9% 72% 24%
8	SI	450	8% 72% 23% 5%
8	SK	450	11% 72% 24%
8	SM	450	10% 68% 27%

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Mol	Chain	Length	Quality of chain
8	TC	450	6% 72% 23% 5%
8	TE	450	5% 70% 26%
8	TG	450	7% 76% 19% 5%
8	TI	450	6% 75% 20%
8	TK	450	7% 71% 24%
8	TM	450	8% 74% 21%
8	UC	450	12% 79% 16%
8	UE	450	11% 77% 18%
8	UG	450	10% 81% 15%
8	UI	450	12% 77% 19%
8	UK	450	9% 74% 22%
8	UM	450	10% 76% 19% 5%
8	VC	450	9% 75% 21%
8	VE	450	10% 72% 24%
8	VG	450	10% 73% 25%
8	VI	450	11% 71% 24% 5%
8	VK	450	9% 70% 27%
8	VM	450	10% 79% 17%
8	WC	450	13% 73% 24%
8	WE	450	8% 74% 21%
8	WG	450	10% 74% 23%
8	WI	450	7% 69% 26% 5%
8	WK	450	7% 73% 24%
8	WM	450	7% 75% 21%
9	AB	445	82% 16%

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Mol	Chain	Length	Quality of chain
9	AD	445	74% 23%
9	AF	445	75% 23%
9	AH	445	77% 21%
9	AJ	445	79% 19%
9	AL	445	76% 21%
9	BB	445	73% 22%
9	BD	445	74% 21%
9	BF	445	5% 73% 23%
9	BH	445	79% 17%
9	BJ	445	76% 20%
9	BL	445	72% 23%
9	CB	445	10% 73% 23%
9	CD	445	9% 74% 22%
9	CF	445	8% 76% 20%
9	CH	445	10% 71% 24%
9	CJ	445	6% 72% 24%
9	CL	445	8% 74% 21%
9	DB	445	18% 67% 29%
9	DD	445	12% 71% 24%
9	DF	445	7% 71% 24%
9	DH	445	10% 65% 30%
9	DJ	445	6% 68% 28%
9	DL	445	8% 73% 22%
9	DN	445	16% 67% 20% 13%
9	EB	445	21% 69% 26%

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Mol	Chain	Length	Quality of chain
9	ED	445	12% 72% 24%
9	EF	445	7% 72% 24%
9	EH	445	11% 71% 24%
9	EJ	445	73% 22%
9	EL	445	9% 76% 19%
9	EN	445	15% 76% 20%
9	FB	445	14% 71% 24%
9	FD	445	7% 75% 21%
9	FF	445	75% 21%
9	FH	445	75% 20%
9	FJ	445	75% 19%
9	FL	445	6% 74% 22%
9	FN	445	9% 75% 20%
9	GB	445	12% 78% 18%
9	GD	445	8% 80% 15%
9	GF	445	6% 77% 18%
9	GH	445	6% 74% 22%
9	GJ	445	5% 78% 18%
9	GL	445	6% 73% 22%
9	GN	445	9% 79% 17%
9	HB	445	16% 78% 18%
9	HD	445	76% 20%
9	HF	445	5% 74% 22%
9	HH	445	7% 79% 17%
9	HJ	445	73% 23%

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Mol	Chain	Length	Quality of chain
9	HL	445	5% 75% 20%
9	HN	445	7% 78% 18%
9	IB	445	11% 65% 17% 17%
9	ID	445	78% 18%
9	IF	445	76% 20%
9	IH	445	72% 24%
9	IJ	445	74% 22%
9	IL	445	6% 76% 20%
9	IN	445	73% 22%
9	JB	445	74% 22%
9	JD	445	73% 23%
9	JF	445	77% 19%
9	JH	445	76% 19%
9	JJ	445	76% 20%
9	JL	445	73% 22%
9	JN	445	79% 17%
9	KB	445	7% 73% 18% 9%
9	KD	445	74% 22%
9	KF	445	78% 18%
9	KH	445	78% 18%
9	KJ	445	80% 16%
9	KL	445	79% 18%
9	KN	445	80% 16%
9	LB	445	81% 17%
9	LD	445	77% 19%

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Mol	Chain	Length	Quality of chain
9	LF	445	82% 16%
9	LH	445	81% 16%
9	LJ	445	84% 14%
9	LL	445	77% 19%
9	LN	445	78% 21%
9	MB	445	77% 18%
9	MD	445	79% 17%
9	MF	445	75% 21%
9	MH	445	79% 17%
9	MJ	445	78% 18%
9	ML	445	79% 17%
9	MN	445	77% 19%
9	N0	445	11% 69% 26%
9	NB	445	13% 78% 18%
9	ND	445	7% 74% 21%
9	NF	445	12% 72% 23%
9	NH	445	10% 72% 24%
9	NJ	445	14% 76% 21%
9	NL	445	13% 76% 20%
9	O0	445	12% 67% 21% 12%
9	OB	445	7% 76% 20%
9	OD	445	7% 73% 22% 5%
9	OF	445	7% 70% 26%
9	OH	445	7% 72% 24%
9	OJ	445	9% 74% 21%

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Mol	Chain	Length	Quality of chain
9	OL	445	6% 72% 23% 5%
9	PB	445	6% 71% 24%
9	PD	445	10% 69% 27%
9	PF	445	12% 69% 27%
9	PH	445	11% 73% 23%
9	PJ	445	10% 66% 30%
9	PL	445	6% 73% 22%
9	QB	445	11% 68% 28%
9	QD	445	12% 69% 27%
9	QF	445	14% 65% 31%
9	QH	445	15% 66% 29%
9	QJ	445	11% 63% 32%
9	QL	445	11% 64% 32%
9	RB	445	10% 66% 30%
9	RD	445	12% 67% 28%
9	RF	445	13% 71% 25%
9	RH	445	13% 68% 28%
9	RJ	445	10% 64% 31%
9	RL	445	12% 65% 30%
9	SB	445	9% 71% 24%
9	SD	445	9% 70% 26%
9	SF	445	7% 70% 26%
9	SH	445	6% 73% 22%
9	SJ	445	7% 69% 27%
9	SL	445	9% 72% 24%

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Mol	Chain	Length	Quality of chain
9	TB	445	11% 73% 22%
9	TD	445	7% 75% 21%
9	TF	445	5% 73% 22%
9	TH	445	5% 72% 24%
9	TJ	445	72% 24%
9	TL	445	6% 70% 25%
9	UB	445	13% 71% 25%
9	UD	445	12% 72% 23%
9	UF	445	9% 71% 24%
9	UH	445	11% 74% 22%
9	UJ	445	8% 70% 25%
9	UL	445	12% 73% 23%
9	UN	445	15% 73% 23%
9	VB	445	12% 75% 21%
9	VD	445	10% 71% 24%
9	VF	445	6% 72% 23%
9	VH	445	9% 73% 23%
9	VJ	445	10% 69% 27%
9	VL	445	9% 72% 24%
9	VN	445	11% 70% 26%
9	WB	445	13% 71% 24%
9	WD	445	6% 69% 27%
9	WF	445	6% 75% 21%
9	WH	445	7% 76% 19%
9	WJ	445	6% 71% 24%

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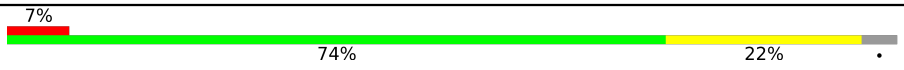
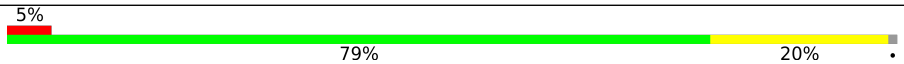
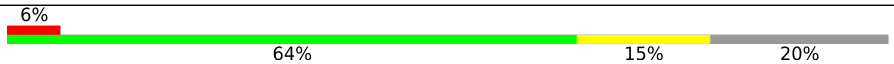
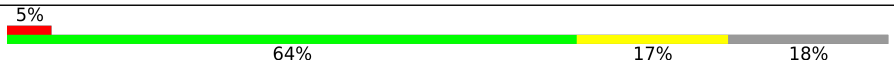
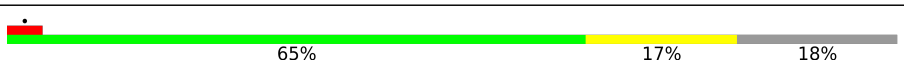
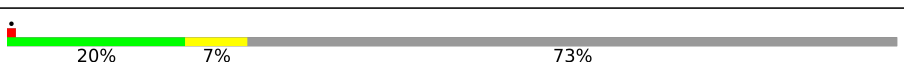
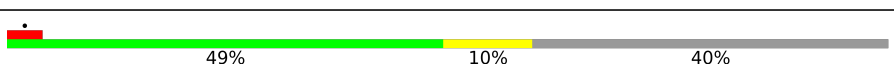
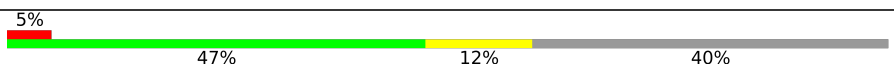
Mol	Chain	Length	Quality of chain
9	WL	445	
9	WN	445	
10	AP	196	
10	AQ	196	
10	AR	196	
10	AS	196	
11	AT	514	
11	AU	514	
12	AV	377	
12	AW	377	
13	Aa	733	
13	Ab	733	
13	Ac	733	
13	Ad	733	
14	Al	320	
14	Am	320	
14	An	320	
14	Ao	320	
14	B7	320	
14	BY	320	
14	BZ	320	
14	Ba	320	
14	Bb	320	
14	Bc	320	
14	Bd	320	

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Mol	Chain	Length	Quality of chain
14	Be	320	28% 6% 67%
14	CN	320	21% 5% 74%
14	CO	320	22% 6% 73%
15	Ap	201	52% 12% 35%
15	Aq	201	33% 11% 56%
15	Ar	201	58% 17% 24%
16	At	303	8% 22% 11% 67%
16	Ax	303	13% 28% 11% 61%
17	B0	304	13% 85%
17	B1	304	9% 88%
17	B2	304	12% 87%
17	B3	304	8% 91%
17	B4	304	11% 87%
17	B8	304	12% 87%
17	B9	304	10% 88%
17	CQ	304	12% 85%
17	CR	304	11% 87%
17	CS	304	11% 88%
18	B5	259	12% 81% 12% 6%
18	B6	259	14% 79% 17%
18	By	259	7% 50% 12% 38%
18	Bz	259	12% 79% 15% 6%
19	BO	500	37% 8% 55%
19	BP	500	8% 69% 14% 16%
19	BQ	500	5% 62% 12% 27%

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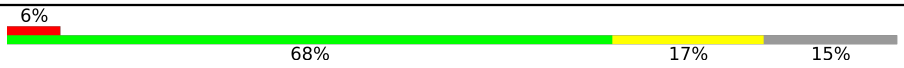
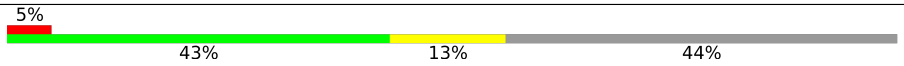
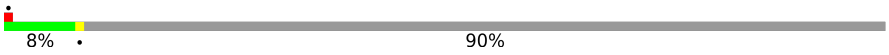
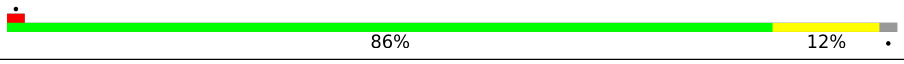
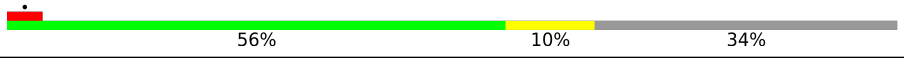
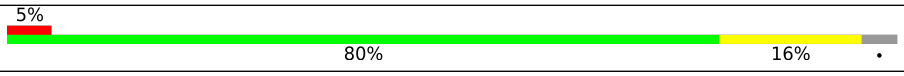
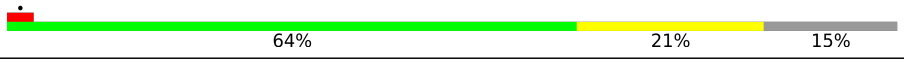
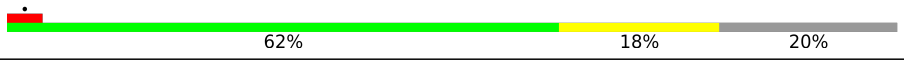
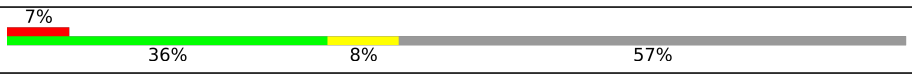
Mol	Chain	Length	Quality of chain
19	BR	500	
20	BS	428	
20	BT	428	
21	BU	377	
21	BV	377	
21	Bi	377	
21	Bj	377	
21	Bk	377	
22	BW	196	
22	BX	196	
23	Bf	136	
23	Bg	136	
24	Bh	120	
25	Bl	477	
25	Bm	477	
25	Bn	477	
25	Bo	477	
25	Bp	477	
26	Bq	338	
26	Bu	338	
27	Br	495	
27	Bs	495	
28	C0	490	
28	C2	490	
28	C3	490	

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Mol	Chain	Length	Quality of chain
28	C4	490	59% 11% 30%
28	C5	490	38% 8% 54%
28	C6	490	7% 92%
28	C7	490	77% 10% 13%
28	C8	490	74% 12% 13%
28	C9	490	64% 13% 22%
28	DO	490	22% 74%
28	F2	490	77% 8% 15%
28	F3	490	71% 14% 15%
28	F4	490	68% 10% 21%
28	F5	490	20% 78%
28	F6	490	20% 5% 74%
29	C1	489	55% 12% 33%
29	Cz	489	7% 49% 11% 39%
29	D0	489	11% 86%
29	D1	489	58% 15% 27%
29	D2	489	66% 13% 21%
29	D3	489	66% 13% 21%
29	D4	489	5% 66% 13% 21%
29	D5	489	5% 60% 14% 26%
29	D6	489	26% 70%
29	D7	489	12% 85%
29	D8	489	69% 10% 21%
29	D9	489	27% 6% 67%
29	DP	489	36% 5% 58%

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Mol	Chain	Length	Quality of chain
29	DQ	489	5% 49% 10% 40%
29	DR	489	15% 45% 8% 47%
29	DS	489	8% 40% 12% 47%
29	DT	489	27% 7% 66%
29	DU	489	49% 12% 39%
29	DV	489	6% 49% 13% 38%
29	DW	489	6% 46% 15% 38%
29	DX	489	12% 38% 8% 53%
29	EA	489	69% 12% 18%
29	EO	489	6% 70% 12% 19%
29	EP	489	59% 14% 26%
29	EQ	489	26% 10% 64%
29	ER	489	9% 91%
30	CW	484	27% 6% 66%
31	Cl	440	24% 5% 71%
32	Cm	418	80% 15% 5%
32	Cn	418	85% 10% 5%
32	Co	418	71% 11% 17%
32	Cp	418	41% 8% 50%
33	Cq	430	85% 13%
33	Cr	430	83% 13%
33	Cs	430	34% 9% 57%
33	Ct	430	76% 14% 10%
33	Cu	430	75% 13% 13%
33	Cv	430	82% 16%

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Mol	Chain	Length	Quality of chain
33	Cw	430	84% 14%
33	Cx	430	38% 8% 54%
33	Cy	430	7% 90%
34	D	138	31% 14% 55%
35	DY	216	14% 82%
35	DZ	216	19% 76%
35	Da	216	8% 48% 14% 38%
35	Ee	216	16% 5% 79%
36	Db	192	23% 73%
36	Dc	192	23% 73%
36	Dd	192	20% 76%
37	De	272	5% 17% 7% 76%
38	Df	180	11% 58% 16% 26%
38	Dg	180	17% 59% 8% 32%
38	Dh	180	13% 47% 13% 39%
39	Di	133	7% 47% 11% 41%
39	Dj	133	5% 62% 13% 26%
39	Dk	133	7% 59% 15% 26%
39	Dl	133	8% 59% 15% 26%
40	Dm	131	54% 12% 34%
41	Dn	450	5% 10% 88%
42	E	877	13% 83%
42	F	877	42% 10% 48%
43	E1	208	5% 78% 17% 5%
43	E2	208	6% 76% 18% 5%

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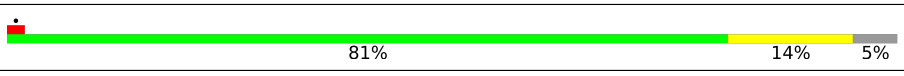
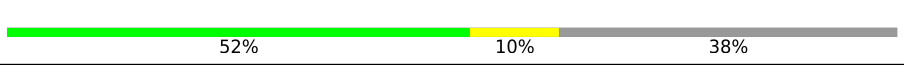
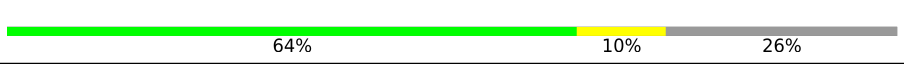
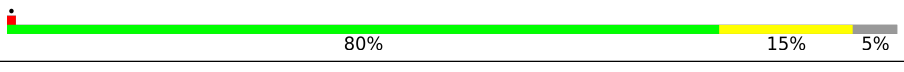
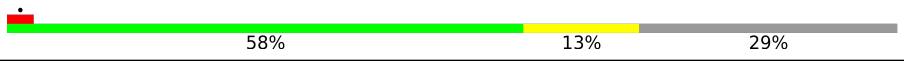
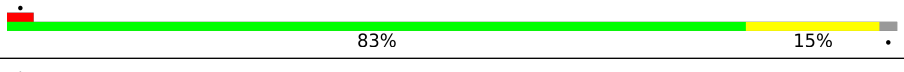
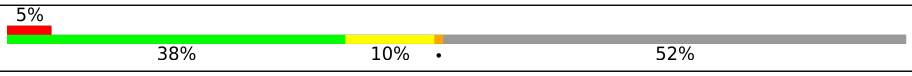
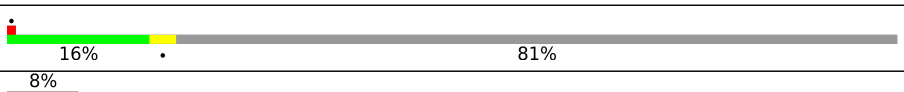
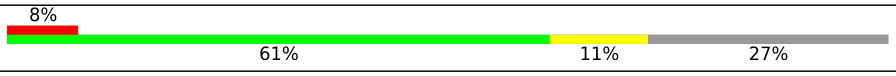
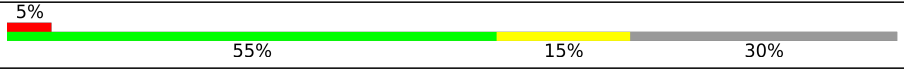
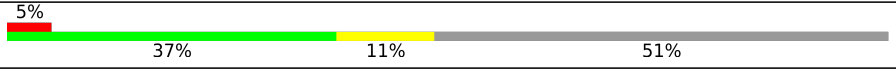
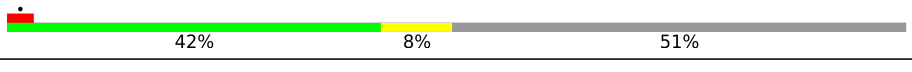
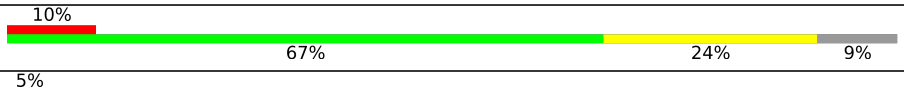
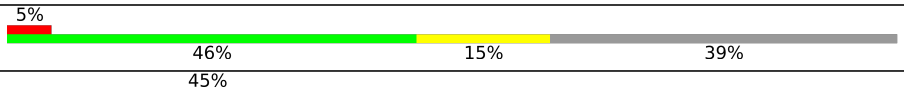
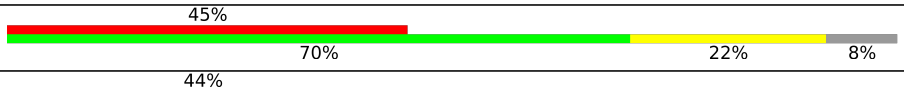
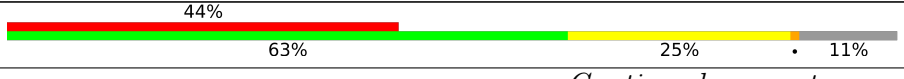
Mol	Chain	Length	Quality of chain
43	E3	208	
43	E4	208	
44	ES	447	
44	ET	447	
44	EU	447	
44	EV	447	
44	EW	447	
44	EX	447	
44	EY	447	
44	EZ	447	
45	G	584	
46	H	547	
46	o	547	
47	I	640	
47	X	640	
47	Y	640	
48	J	235	
48	K	235	
48	L	235	
48	M	235	
49	K1	135	
50	L1	147	
50	L2	147	
51	N	154	
51	O	154	

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Mol	Chain	Length	Quality of chain
52	P	137	9% 55% 20% 23%
53	Q	169	51% 11% 37%
54	R	284	37% 12% 51%
54	S	284	40% 9% 51%
54	T	284	43% 6% 51%
54	U	284	29% 5% 66%
55	W	309	26% 30% 10% 60%
56	XG	193	6% 69% 25% 6%
56	XH	193	65% 30% 6%
56	XI	193	59% 35% 6%
56	XJ	193	5% 67% 27% 6%
56	XK	193	5% 70% 24% 6%
56	XL	193	5% 68% 26% 6%
56	XM	193	8% 72% 20% 7%
57	YG	257	50% 65% 17% 18%
57	YH	257	6% 68% 16% 15%
57	YI	257	5% 62% 23% 15%
57	YJ	257	5% 68% 17% 15%
57	YK	257	72% 13% 15%
57	YL	257	8% 66% 18% 15%
58	Z	164	48% 63% 9% 29%
58	p	164	24% 27% 5% 67%
58	q	164	47% 46% 12% 41%
59	a	549	6% 27% 7% 66%
59	b	549	14% 43% 16% 40%

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Mol	Chain	Length	Quality of chain
59	c	549	12% 43% 11% 46%
59	d	549	8% 30% 7% 63%
60	e	623	5% 74% 24%
60	f	623	5% 74% 23%
60	g	623	5% 73% 25%
61	h	101	66% 24% 10%
62	i	321	65% 14% 21%
62	j	321	69% 14% 17%
63	k	196	15% 62% 18% 20%
63	l	196	23% 53% 17% 30%
63	m	196	12% 58% 23% 19%
63	n	196	8% 43% 15% 42%
64	ke	197	10% 41% 9% 51%
65	r	170	37% 8% 55%
65	s	170	36% 9% 54%
65	t	170	36% 9% 54%
66	u	438	19% 23% 7% 71%
66	v	438	18% 22% 74%
66	w	438	20% 22% 8% 71%

2 Entry composition (i)

There are 69 unique types of molecules in this entry. The entry contains 1456841 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 Cilia- and flagella-associated protein 95.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	40	Total	C	N	O	S	0	0
			330	205	63	61	1		
1	V	183	Total	C	N	O	S	0	0
			1487	932	258	288	9		

- Molecule 2 is a protein called Sperm acrosome associated 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	0A	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	0C	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	0E	157	Total	C	N	O	S	0	0
			1260	787	225	237	11		
2	0G	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	0W	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	0Y	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	0a	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	0c	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	0e	155	Total	C	N	O	S	0	0
			1244	777	223	235	9		
2	0g	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	0i	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	0k	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	CT	157	Total	C	N	O	S	0	0
			1260	787	225	237	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	CU	155	Total	C	N	O	S	0	0
			1244	777	223	235	9		
2	CV	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	CX	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	CY	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	CZ	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	Ca	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	Cb	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	Cc	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	Cd	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	Ce	155	Total	C	N	O	S	0	0
			1244	777	223	235	9		
2	Cf	155	Total	C	N	O	S	0	0
			1244	777	223	235	9		
2	Cg	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	Ch	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	Ci	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		
2	Cj	155	Total	C	N	O	S	0	0
			1244	777	223	235	9		
2	Ck	156	Total	C	N	O	S	0	0
			1252	782	224	236	10		

- Molecule 3 is a protein called Testis specific serine kinase 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	1	216	Total	C	N	O	S	0	0
			1700	1076	317	301	6		
3	2	258	Total	C	N	O	S	0	0
			2027	1292	370	357	8		
3	x	258	Total	C	N	O	S	0	0
			2027	1292	370	357	8		

- Molecule 4 is a protein called EF-hand domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	3	178	Total	C	N	O	S	0	0
			1469	941	252	265	11		
4	y	178	Total	C	N	O	S	0	0
			1469	941	252	265	11		
4	z	178	Total	C	N	O	S	0	0
			1469	941	252	265	11		

- Molecule 5 is a protein called ATP6V1F neighbor.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	A	39	Total	C	N	O	S	0	0
			338	216	64	56	2		
5	B	91	Total	C	N	O	S	0	0
			751	486	129	132	4		
5	C	91	Total	C	N	O	S	0	0
			751	486	129	132	4		

- Molecule 6 is a protein called Outer dense fiber of sperm tails 3 like 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	A0	130	Total	C	N	O	S	0	0
			1017	656	177	175	9		
6	BN	79	Total	C	N	O	S	0	0
			614	386	121	103	4		

- Molecule 7 is a protein called Outer dense fiber of sperm tails 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	A1	239	Total	C	N	O	S	0	0
			1828	1173	321	324	10		
7	A2	49	Total	C	N	O	S	0	0
			385	252	72	60	1		
7	A3	244	Total	C	N	O		0	0
			1200	712	244	244			
7	A4	111	Total	C	N	O		0	0
			546	324	111	111			
7	A5	155	Total	C	N	O		0	0
			762	452	155	155			
7	A6	49	Total	C	N	O	S	0	0
			369	235	63	67	4		
7	A7	226	Total	C	N	O	S	0	0
			1726	1110	305	303	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	A8	169	Total	C	N	O	S	0	0
			1281	815	222	237	7		
7	A9	112	Total	C	N	O	S	0	0
			879	573	156	147	3		
7	Au	71	Total	C	N	O	S	0	0
			540	344	93	99	4		
7	Av	148	Total	C	N	O	S	0	0
			1126	717	195	207	7		
7	Aw	129	Total	C	N	O	S	0	0
			1009	652	182	172	3		
7	Ay	183	Total	C	N	O	S	0	0
			1412	909	250	248	5		
7	Az	42	Total	C	N	O	S	0	0
			313	201	53	56	3		

- Molecule 8 is a protein called Tubulin alpha-3 chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AA	438	Total	C	N	O	S	0	0
			3413	2161	581	650	21		
8	AC	440	Total	C	N	O	S	0	0
			3428	2171	583	652	22		
8	AE	440	Total	C	N	O	S	0	0
			3428	2171	583	652	22		
8	AG	440	Total	C	N	O	S	0	0
			3428	2171	583	652	22		
8	AI	440	Total	C	N	O	S	0	0
			3428	2171	583	652	22		
8	AK	440	Total	C	N	O	S	0	0
			3428	2171	583	652	22		
8	AM	439	Total	C	N	O	S	0	0
			3421	2166	582	651	22		
8	BA	429	Total	C	N	O	S	0	0
			3355	2128	571	635	21		
8	BC	438	Total	C	N	O	S	0	0
			3415	2163	581	649	22		
8	BE	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	BG	439	Total	C	N	O	S	0	0
			3421	2166	582	651	22		
8	BI	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	BK	437	Total	C	N	O	S	0	0
			3407	2159	580	646	22		
8	BM	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	CA	437	Total	C	N	O	S	0	0
			3407	2158	580	648	21		
8	CC	438	Total	C	N	O	S	0	0
			3415	2163	581	649	22		
8	CE	438	Total	C	N	O	S	0	0
			3415	2163	581	649	22		
8	CG	436	Total	C	N	O	S	0	0
			3400	2154	579	645	22		
8	CI	438	Total	C	N	O	S	0	0
			3415	2163	581	649	22		
8	CK	438	Total	C	N	O	S	0	0
			3415	2163	581	649	22		
8	CM	438	Total	C	N	O	S	0	0
			3415	2163	581	649	22		
8	DA	380	Total	C	N	O	S	0	0
			2965	1881	509	556	19		
8	DC	428	Total	C	N	O	S	0	0
			3349	2126	570	631	22		
8	DE	428	Total	C	N	O	S	0	0
			3349	2126	570	631	22		
8	DG	431	Total	C	N	O	S	0	0
			3370	2138	573	637	22		
8	DI	428	Total	C	N	O	S	0	0
			3348	2124	570	632	22		
8	DK	427	Total	C	N	O	S	0	0
			3342	2121	569	630	22		
8	DM	427	Total	C	N	O	S	0	0
			3342	2121	569	630	22		
8	EC	434	Total	C	N	O	S	0	0
			3392	2150	577	643	22		
8	EE	439	Total	C	N	O	S	0	0
			3421	2166	582	651	22		
8	EG	437	Total	C	N	O	S	0	0
			3407	2159	580	646	22		
8	EI	436	Total	C	N	O	S	0	0
			3400	2154	579	645	22		
8	EK	437	Total	C	N	O	S	0	0
			3413	2162	580	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	EM	428	Total	C	N	O	S	0	0
			3349	2126	570	631	22		
8	FC	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	FE	424	Total	C	N	O	S	0	0
			3323	2110	566	625	22		
8	FG	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	FI	425	Total	C	N	O	S	0	0
			3325	2109	567	627	22		
8	FK	428	Total	C	N	O	S	0	0
			3350	2125	570	633	22		
8	FM	429	Total	C	N	O	S	0	0
			3356	2128	571	635	22		
8	GC	439	Total	C	N	O	S	0	0
			3421	2166	582	651	22		
8	GE	431	Total	C	N	O	S	0	0
			3370	2138	573	637	22		
8	GG	433	Total	C	N	O	S	0	0
			3384	2145	575	642	22		
8	GI	436	Total	C	N	O	S	0	0
			3398	2154	578	644	22		
8	GK	430	Total	C	N	O	S	0	0
			3364	2132	572	638	22		
8	GM	439	Total	C	N	O	S	0	0
			3421	2166	582	651	22		
8	HC	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	HE	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	HG	431	Total	C	N	O	S	0	0
			3370	2138	573	637	22		
8	HI	430	Total	C	N	O	S	0	0
			3362	2134	572	634	22		
8	HK	431	Total	C	N	O	S	0	0
			3370	2138	573	637	22		
8	HM	434	Total	C	N	O	S	0	0
			3393	2150	577	644	22		
8	HO	387	Total	C	N	O	S	0	0
			3035	1925	518	571	21		
8	IC	433	Total	C	N	O	S	0	0
			3384	2145	575	642	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	IE	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	IG	439	Total	C	N	O	S	0	0
			3421	2166	582	651	22		
8	II	431	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
8	IK	436	Total	C	N	O	S	0	0
			3400	2154	579	645	22		
8	IM	437	Total	C	N	O	S	0	0
			3407	2159	580	646	22		
8	IO	428	Total	C	N	O	S	0	0
			3348	2124	570	632	22		
8	JC	433	Total	C	N	O	S	0	0
			3382	2144	575	641	22		
8	JE	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	JG	428	Total	C	N	O	S	0	0
			3349	2126	570	631	22		
8	JI	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	JK	438	Total	C	N	O	S	0	0
			3415	2163	581	649	22		
8	JM	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	KC	434	Total	C	N	O	S	0	0
			3389	2146	576	645	22		
8	KE	431	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
8	KG	430	Total	C	N	O	S	0	0
			3361	2132	572	635	22		
8	KI	428	Total	C	N	O	S	0	0
			3349	2126	570	631	22		
8	KK	431	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
8	KM	434	Total	C	N	O	S	0	0
			3383	2143	576	642	22		
8	KO	411	Total	C	N	O	S	0	0
			3229	2048	548	611	22		
8	LC	440	Total	C	N	O	S	0	0
			3428	2171	583	652	22		
8	LE	445	Total	C	N	O	S	0	0
			3465	2192	588	663	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	LG	440	Total	C	N	O	S	0	0
			3428	2171	583	652	22		
8	LI	445	Total	C	N	O	S	0	0
			3465	2192	588	663	22		
8	LK	440	Total	C	N	O	S	0	0
			3428	2171	583	652	22		
8	LM	436	Total	C	N	O	S	0	0
			3404	2157	578	647	22		
8	MC	439	Total	C	N	O	S	0	0
			3421	2166	582	651	22		
8	ME	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	MG	432	Total	C	N	O	S	0	0
			3377	2140	574	641	22		
8	MI	431	Total	C	N	O	S	0	0
			3369	2136	573	638	22		
8	MK	440	Total	C	N	O	S	0	0
			3428	2171	583	652	22		
8	MM	437	Total	C	N	O	S	0	0
			3407	2158	580	648	21		
8	NA	426	Total	C	N	O	S	0	0
			3333	2117	568	627	21		
8	NC	427	Total	C	N	O	S	0	0
			3343	2123	569	629	22		
8	NE	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	NG	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	NI	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	NK	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	OA	428	Total	C	N	O	S	0	0
			3349	2125	570	633	21		
8	OC	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	OE	432	Total	C	N	O	S	0	0
			3378	2142	574	640	22		
8	OG	432	Total	C	N	O	S	0	0
			3375	2139	574	640	22		
8	OI	432	Total	C	N	O	S	0	0
			3378	2142	574	640	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	OK	430	Total	C	N	O	S	0	0
			3365	2134	572	637	22		
8	PA	430	Total	C	N	O	S	0	0
			3363	2132	572	638	21		
8	PC	434	Total	C	N	O	S	0	0
			3385	2144	576	643	22		
8	PE	431	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
8	PG	433	Total	C	N	O	S	0	0
			3384	2145	575	642	22		
8	PI	427	Total	C	N	O	S	0	0
			3341	2121	569	630	21		
8	PK	429	Total	C	N	O	S	0	0
			3355	2129	571	633	22		
8	PM	431	Total	C	N	O	S	0	0
			3369	2136	573	638	22		
8	QA	428	Total	C	N	O	S	0	0
			3347	2124	570	632	21		
8	QC	428	Total	C	N	O	S	0	0
			3349	2126	570	631	22		
8	QE	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	QG	431	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
8	QI	428	Total	C	N	O	S	0	0
			3349	2126	570	631	22		
8	QK	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	QM	431	Total	C	N	O	S	0	0
			3369	2136	573	638	22		
8	RA	429	Total	C	N	O	S	0	0
			3355	2128	571	635	21		
8	RC	432	Total	C	N	O	S	0	0
			3378	2142	574	640	22		
8	RE	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	RG	432	Total	C	N	O	S	0	0
			3376	2141	574	639	22		
8	RI	432	Total	C	N	O	S	0	0
			3376	2141	574	639	22		
8	RK	433	Total	C	N	O	S	0	0
			3384	2145	575	642	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	RM	428	Total	C	N	O	S	0	0
			3348	2124	570	632	22		
8	SA	428	Total	C	N	O	S	0	0
			3349	2125	570	633	21		
8	SC	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	SE	431	Total	C	N	O	S	0	0
			3372	2138	573	639	22		
8	SG	431	Total	C	N	O	S	0	0
			3370	2138	573	637	22		
8	SI	426	Total	C	N	O	S	0	0
			3341	2121	567	631	22		
8	SK	432	Total	C	N	O	S	0	0
			3378	2142	574	640	22		
8	SM	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	TC	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	TE	432	Total	C	N	O	S	0	0
			3378	2142	574	640	22		
8	TG	429	Total	C	N	O	S	0	0
			3355	2129	571	633	22		
8	TI	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	TK	431	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
8	TM	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	UC	431	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
8	UE	431	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
8	UG	432	Total	C	N	O	S	0	0
			3375	2139	574	640	22		
8	UI	431	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
8	UK	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		
8	UM	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	VC	436	Total	C	N	O	S	0	0
			3400	2154	579	645	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	VE	430	Total	C	N	O	S	0	0
			3365	2134	573	636	22		
8	VG	439	Total	C	N	O	S	0	0
			3421	2166	582	651	22		
8	VI	428	Total	C	N	O	S	0	0
			3350	2125	570	633	22		
8	VK	437	Total	C	N	O	S	0	0
			3407	2159	580	646	22		
8	VM	432	Total	C	N	O	S	0	0
			3377	2140	574	641	22		
8	WC	437	Total	C	N	O	S	0	0
			3407	2159	580	646	22		
8	WE	430	Total	C	N	O	S	0	0
			3361	2132	572	635	22		
8	WG	436	Total	C	N	O	S	0	0
			3400	2154	579	645	22		
8	WI	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	WK	437	Total	C	N	O	S	0	0
			3407	2159	580	646	22		
8	WM	430	Total	C	N	O	S	0	0
			3363	2133	572	636	22		

- Molecule 9 is a protein called Tubulin beta-4B chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	AB	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
9	AD	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
9	AF	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
9	AH	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
9	AJ	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
9	AL	431	Total	C	N	O	S	0	0
			3383	2124	579	655	25		
9	BB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	BD	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	BF	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	BH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	BJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	BL	425	Total	C	N	O	S	0	0
			3340	2100	573	642	25		
9	CB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	CD	425	Total	C	N	O	S	0	0
			3339	2100	572	641	26		
9	CF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	CH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	CJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	CL	425	Total	C	N	O	S	0	0
			3340	2100	573	642	25		
9	DB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	DD	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	DF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	DH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	DJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	DL	425	Total	C	N	O	S	0	0
			3340	2100	573	642	25		
9	DN	387	Total	C	N	O	S	0	0
			3035	1911	519	582	23		
9	EB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	ED	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	EF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	EH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	EJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	EL	425	Total	C	N	O	S	0	0
			3340	2100	573	642	25		
9	EN	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	FB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	FD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	FF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	FH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	FJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	FL	425	Total	C	N	O	S	0	0
			3340	2100	573	642	25		
9	FN	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	GB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	GD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	GF	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	GH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	GJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	GL	425	Total	C	N	O	S	0	0
			3340	2100	573	642	25		
9	GN	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	HB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	HD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	HF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	HH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	HJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	HL	425	Total	C	N	O	S	0	0
			3340	2100	573	642	25		
9	HN	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	IB	368	Total	C	N	O	S	0	0
			2892	1817	499	553	23		
9	ID	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	IF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	IH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	IJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	IL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	IN	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	JB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	JD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	JF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	JH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	JJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	JL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	JN	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	KB	403	Total	C	N	O	S	0	0
			3165	1989	539	613	24		
9	KD	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	KF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	KH	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	KJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	KL	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	KN	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	LB	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
9	LD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	LF	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
9	LH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	LJ	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
9	LL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	LN	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
9	MB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	MD	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	MF	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	MH	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	MJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	ML	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	MN	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	N0	425	Total	C	N	O	S	0	0
			3339	2100	572	641	26		
9	NB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	ND	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	NF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	NH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	NJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	NL	425	Total	C	N	O	S	0	0
			3339	2100	572	641	26		
9	O0	391	Total	C	N	O	S	0	0
			3078	1937	526	592	23		
9	OB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	OD	424	Total	C	N	O	S	0	0
			3327	2091	571	639	26		
9	OF	425	Total	C	N	O	S	0	0
			3339	2100	572	641	26		
9	OH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	OJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	OL	424	Total	C	N	O	S	0	0
			3327	2091	571	639	26		
9	PB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	PD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	PF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	PH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	PJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	PL	425	Total	C	N	O	S	0	0
			3340	2100	573	642	25		
9	QB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	QD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	QF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	QH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	QJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	QL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	RB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	RD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	RF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	RH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	RJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	RL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	SB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	SD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	SF	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	SH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	SJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	SL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	TB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	TD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	TF	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	TH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	TJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	TL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	UB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	UD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	UF	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	UH	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	UJ	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	UL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	UN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	VB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	VD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	VF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	VH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	VJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	VL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	VN	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	WB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	WD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	WF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	WH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	WJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	WL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	WN	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

- Molecule 10 is a protein called Protein Flattop.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AP	117	Total	C	N	O	S	0	0
			920	586	168	164	2		
10	AQ	117	Total	C	N	O	S	0	0
			920	586	168	164	2		
10	AR	95	Total	C	N	O	S	0	0
			735	470	137	126	2		
10	AS	117	Total	C	N	O	S	0	0
			920	586	168	164	2		

- Molecule 11 is a protein called Cilia- and flagella-associated protein 53.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AT	297	Total	C	N	O	S	0	0
			2521	1541	478	489	13		
11	AU	217	Total	C	N	O	S	0	0
			1855	1127	350	364	14		

- Molecule 12 is a protein called Nucleoside diphosphate kinase 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	AV	366	Total	C	N	O	S	0	0
			2901	1853	491	536	21		
12	AW	372	Total	C	N	O	S	0	0
			2947	1880	499	546	22		

- Molecule 13 is a protein called EF-hand domain-containing family member C2.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	Aa	585	Total	C	N	O	S	0	0
			4829	3100	812	892	25		
13	Ab	598	Total	C	N	O	S	0	0
			4935	3171	827	912	25		
13	Ac	600	Total	C	N	O	S	0	0
			4948	3179	831	913	25		
13	Ad	512	Total	C	N	O	S	0	0
			4235	2727	705	782	21		

- Molecule 14 is a protein called Family with sequence similarity 166 member A.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	Al	43	Total	C	N	O	S	0	0
			338	217	58	62	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
14	Am	43	Total	C	N	O	S	0	0
			338	217	58	62	1		
14	An	43	Total	C	N	O	S	0	0
			338	217	58	62	1		
14	Ao	67	Total	C	N	O	S	0	0
			573	379	96	95	3		
14	B7	86	Total	C	N	O	S	0	0
			686	443	117	122	4		
14	BY	106	Total	C	N	O	S	0	0
			866	553	155	152	6		
14	BZ	106	Total	C	N	O	S	0	0
			866	553	155	152	6		
14	Ba	191	Total	C	N	O	S	0	0
			1587	1026	281	271	9		
14	Bb	191	Total	C	N	O	S	0	0
			1587	1026	281	271	9		
14	Bc	190	Total	C	N	O	S	0	0
			1575	1017	280	269	9		
14	Bd	106	Total	C	N	O	S	0	0
			866	553	155	152	6		
14	Be	106	Total	C	N	O	S	0	0
			866	553	155	152	6		
14	CN	84	Total	C	N	O	S	0	0
			670	431	115	120	4		
14	CO	87	Total	C	N	O	S	0	0
			697	449	121	123	4		

- Molecule 15 is a protein called Protein FAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	Ap	130	Total	C	N	O	S	0	0
			1101	710	202	187	2		
15	Aq	88	Total	C	N	O	S	0	0
			766	493	146	126	1		
15	Ar	152	Total	C	N	O	S	0	0
			1257	809	228	218	2		

- Molecule 16 is a protein called Outer dense fiber of sperm tails 3B.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	At	100	Total	C	N	O	S	0	0
			772	495	138	135	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
16	Ax	119	Total	C	N	O	S	0	0
			914	590	179	142	3		

- Molecule 17 is a protein called Spermatid-specific manchette-related protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	B0	45	Total	C	N	O		0	0
			367	240	59	68			
17	B1	37	Total	C	N	O		0	0
			300	198	46	56			
17	B2	41	Total	C	N	O	S	0	0
			307	190	56	55	6		
17	B3	26	Total	C	N	O	S	0	0
			200	124	35	37	4		
17	B4	39	Total	C	N	O	S	0	0
			305	188	57	54	6		
17	B8	41	Total	C	N	O	S	0	0
			320	196	62	56	6		
17	B9	38	Total	C	N	O		0	0
			307	202	47	58			
17	CQ	45	Total	C	N	O		0	0
			367	240	59	68			
17	CR	39	Total	C	N	O		0	0
			316	208	49	59			
17	CS	38	Total	C	N	O		0	0
			307	202	47	58			

- Molecule 18 is a protein called Enkurin.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	B5	244	Total	C	N	O	S	0	0
			2008	1283	348	369	8		
18	B6	248	Total	C	N	O	S	0	0
			2040	1306	352	374	8		
18	By	160	Total	C	N	O	S	0	0
			1316	833	228	250	5		
18	Bz	244	Total	C	N	O	S	0	0
			2008	1283	348	369	8		

- Molecule 19 is a protein called Coiled-coil domain-containing protein 105.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	BO	227	Total	C	N	O	S	1	0
			1817	1123	346	332	16		
19	BP	418	Total	C	N	O	S	1	0
			3394	2101	651	616	26		
19	BQ	367	Total	C	N	O	S	1	0
			2989	1843	580	545	21		
19	BR	427	Total	C	N	O	S	1	0
			3465	2147	665	627	26		

- Molecule 20 is a protein called Protein phosphatase 1 regulatory subunit 32.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	BS	151	Total	C	N	O	S	0	0
			1192	756	212	223	1		
20	BT	240	Total	C	N	O	S	0	0
			1886	1193	327	362	4		

- Molecule 21 is a protein called RIB43A-like with coiled-coils protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	BU	36	Total	C	N	O	S	0	0
			307	192	64	50	1		
21	BV	371	Total	C	N	O	S	0	0
			3087	1881	602	589	15		
21	Bi	43	Total	C	N	O	S	0	0
			352	214	68	67	3		
21	Bj	247	Total	C	N	O	S	0	0
			2029	1233	393	393	10		
21	Bk	174	Total	C	N	O	S	0	0
			1444	876	285	276	7		

- Molecule 22 is a protein called Cilia- and flagella-associated protein 107.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	BW	189	Total	C	N	O	S	0	0
			1586	1022	284	279	1		
22	BX	50	Total	C	N	O		0	0
			424	272	73	79			

- Molecule 23 is a protein called Piercer of microtubule wall 1 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	Bf	62	Total 508	C 324	N 87	O 93	S 4	0	0
23	Bg	115	Total 950	C 602	N 168	O 175	S 5	0	0

- Molecule 24 is a protein called Piercer of microtubule wall 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	Bh	96	Total 775	C 496	N 130	O 142	S 7	0	0

- Molecule 25 is a protein called Stabilizer of axonemal microtubules 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
25	Bl	127	Total 635	C 381	N 127	O 127	0	0
25	Bm	128	Total 640	C 384	N 128	O 128	0	0
25	Bn	138	Total 690	C 414	N 138	O 138	0	0
25	Bo	143	Total 715	C 429	N 143	O 143	0	0
25	Bp	163	Total 815	C 489	N 163	O 163	0	0

- Molecule 26 is a protein called Stabilizer of axonemal microtubules 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	Bq	100	Total 782	C 505	N 139	O 138		0	0
26	Bu	147	Total 1177	C 755	N 219	O 202	S 1	0	0

- Molecule 27 is a protein called Meiosis-specific nuclear structural protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	Br	165	Total 1380	C 842	N 259	O 272	S 7	0	0
27	Bs	355	Total 3042	C 1886	N 556	O 583	S 17	0	0

- Molecule 28 is a protein called Tektin-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	C0	105	Total 851	C 527	N 155	O 166	S 3	0	0
28	C2	407	Total 3314	C 2044	N 605	O 649	S 16	0	0
28	C3	407	Total 3314	C 2044	N 605	O 649	S 16	0	0
28	C4	342	Total 2779	C 1715	N 505	O 545	S 14	0	0
28	C5	226	Total 1843	C 1145	N 331	O 354	S 13	0	0
28	C6	41	Total 352	C 218	N 65	O 68	S 1	0	0
28	C7	425	Total 3454	C 2128	N 630	O 678	S 18	0	0
28	C8	424	Total 3446	C 2124	N 629	O 675	S 18	0	0
28	C9	381	Total 3089	C 1897	N 568	O 609	S 15	0	0
28	DO	127	Total 1041	C 632	N 197	O 209	S 3	0	0
28	F2	418	Total 3411	C 2107	N 621	O 667	S 16	0	0
28	F3	417	Total 3400	C 2102	N 616	O 666	S 16	0	0
28	F4	387	Total 3141	C 1931	N 577	O 618	S 15	0	0
28	F5	108	Total 873	C 540	N 159	O 171	S 3	0	0
28	F6	127	Total 1047	C 643	N 194	O 208	S 2	0	0

- Molecule 29 is a protein called Tektin-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	C1	330	Total 2710	C 1677	N 498	O 513	S 22	0	0
29	Cz	297	Total 2435	C 1509	N 445	O 461	S 20	0	0
29	D0	69	Total 569	C 351	N 107	O 106	S 5	0	0
29	D1	358	Total 2933	C 1802	N 545	O 560	S 26	0	0
29	D2	387	Total 3169	C 1945	N 592	O 603	S 29	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
29	D3	386	Total	C	N	O	S	0	0
			3160	1939	590	602	29		
29	D4	385	Total	C	N	O	S	0	0
			3152	1936	587	601	28		
29	D5	362	Total	C	N	O	S	0	0
			2961	1818	552	564	27		
29	D6	148	Total	C	N	O	S	0	0
			1209	733	227	239	10		
29	D7	73	Total	C	N	O	S	0	0
			603	374	111	113	5		
29	D8	387	Total	C	N	O	S	0	0
			3169	1945	592	603	29		
29	D9	160	Total	C	N	O	S	0	0
			1305	789	247	258	11		
29	DP	204	Total	C	N	O	S	0	0
			1668	1010	317	327	14		
29	DQ	293	Total	C	N	O	S	0	0
			2411	1481	450	459	21		
29	DR	261	Total	C	N	O	S	0	0
			2151	1327	399	407	18		
29	DS	257	Total	C	N	O	S	0	0
			2118	1308	392	401	17		
29	DT	165	Total	C	N	O	S	0	0
			1373	874	240	249	10		
29	DU	300	Total	C	N	O	S	0	0
			2497	1547	463	466	21		
29	DV	301	Total	C	N	O	S	0	0
			2502	1550	464	467	21		
29	DW	301	Total	C	N	O	S	0	0
			2502	1550	464	467	21		
29	DX	229	Total	C	N	O	S	0	0
			1897	1171	354	357	15		
29	EA	399	Total	C	N	O	S	0	0
			3259	2006	604	618	31		
29	EO	398	Total	C	N	O	S	0	0
			3251	2000	603	617	31		
29	EP	360	Total	C	N	O	S	0	0
			2940	1805	544	563	28		
29	EQ	178	Total	C	N	O	S	0	0
			1458	909	265	270	14		
29	ER	44	Total	C	N	O	S	0	0
			358	217	68	68	5		

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C1	245	ASP	GLU	variant	UNP Q2YDI7
Cz	245	ASP	GLU	variant	UNP Q2YDI7
D0	245	ASP	GLU	variant	UNP Q2YDI7
D1	245	ASP	GLU	variant	UNP Q2YDI7
D2	245	ASP	GLU	variant	UNP Q2YDI7
D3	245	ASP	GLU	variant	UNP Q2YDI7
D4	245	ASP	GLU	variant	UNP Q2YDI7
D5	245	ASP	GLU	variant	UNP Q2YDI7
D6	245	ASP	GLU	variant	UNP Q2YDI7
D7	245	ASP	GLU	variant	UNP Q2YDI7
D8	245	ASP	GLU	variant	UNP Q2YDI7
D9	245	ASP	GLU	variant	UNP Q2YDI7
DP	245	ASP	GLU	variant	UNP Q2YDI7
DQ	245	ASP	GLU	variant	UNP Q2YDI7
DR	245	ASP	GLU	variant	UNP Q2YDI7
DS	245	ASP	GLU	variant	UNP Q2YDI7
DT	245	ASP	GLU	variant	UNP Q2YDI7
DU	245	ASP	GLU	variant	UNP Q2YDI7
DV	245	ASP	GLU	variant	UNP Q2YDI7
DW	245	ASP	GLU	variant	UNP Q2YDI7
DX	245	ASP	GLU	variant	UNP Q2YDI7
EA	245	ASP	GLU	variant	UNP Q2YDI7
EO	245	ASP	GLU	variant	UNP Q2YDI7
EP	245	ASP	GLU	variant	UNP Q2YDI7
EQ	245	ASP	GLU	variant	UNP Q2YDI7
ER	245	ASP	GLU	variant	UNP Q2YDI7

- Molecule 30 is a protein called Sperm-associated antigen 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	CW	163	Total	C	N	O	S	0	0
			1319	827	236	249	7		

- Molecule 31 is a protein called Spermatogenesis-associated protein 48.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	Cl	127	Total	C	N	O	S	0	0
			977	615	168	190	4		

- Molecule 32 is a protein called Tektin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	Cm	396	Total	C	N	O	S	0	0
			3264	2032	594	629	9		
32	Cn	399	Total	C	N	O	S	0	0
			3286	2047	598	632	9		
32	Co	345	Total	C	N	O	S	0	0
			2845	1776	512	549	8		
32	Cp	208	Total	C	N	O	S	0	0
			1690	1058	306	319	7		

- Molecule 33 is a protein called Tektin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	Cq	421	Total	C	N	O	S	0	0
			3427	2114	632	667	14		
33	Cr	415	Total	C	N	O	S	0	0
			3386	2087	626	659	14		
33	Cs	183	Total	C	N	O	S	0	0
			1496	915	282	293	6		
33	Ct	387	Total	C	N	O	S	0	0
			3147	1943	575	614	15		
33	Cu	376	Total	C	N	O	S	0	0
			3055	1887	556	598	14		
33	Cv	422	Total	C	N	O	S	0	0
			3436	2120	634	668	14		
33	Cw	422	Total	C	N	O	S	0	0
			3436	2120	634	668	14		
33	Cx	199	Total	C	N	O	S	0	0
			1611	987	302	316	6		
33	Cy	44	Total	C	N	O	S	0	0
			365	224	71	68	2		

- Molecule 34 is a protein called Uncharacterized protein C1orf100 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	D	62	Total	C	N	O	S	0	0
			537	344	94	98	1		

- Molecule 35 is a protein called TEPP protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	DY	38	Total	C	N	O	S	0	0
			308	187	53	63	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
35	DZ	51	Total	C	N	O	S	0	0
			416	250	82	79	5		
35	Da	134	Total	C	N	O	S	0	0
			1095	704	194	193	4		
35	Ee	45	Total	C	N	O	S	0	0
			386	248	71	66	1		

- Molecule 36 is a protein called Uncharacterized protein MGC137036.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	Db	52	Total	C	N	O	S	0	0
			450	290	81	78	1		
36	Dc	51	Total	C	N	O	S	0	0
			442	284	80	77	1		
36	Dd	47	Total	C	N	O	S	0	0
			406	262	72	71	1		

- Molecule 37 is a protein called Testis expressed 33.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	De	66	Total	C	N	O	S	0	0
			545	343	97	101	4		

- Molecule 38 is a protein called Testis-expressed sequence 37 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	Df	133	Total	C	N	O	S	0	0
			1060	685	176	196	3		
38	Dg	123	Total	C	N	O	S	0	0
			981	629	167	181	4		
38	Dh	109	Total	C	N	O	S	0	0
			873	561	143	166	3		

- Molecule 39 is a protein called Testis-expressed protein 43.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	Di	78	Total	C	N	O	S	0	0
			632	405	120	102	5		
39	Dj	99	Total	C	N	O	S	0	0
			806	513	154	133	6		
39	Dk	99	Total	C	N	O	S	0	0
			806	513	154	133	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
39	Dl	99	Total	C	N	O	S	0	0
			806	513	154	133	6		

- Molecule 40 is a protein called Testis expressed 49.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	Dm	87	Total	C	N	O	S	0	0
			725	458	136	127	4		

- Molecule 41 is a protein called Theg spermatid protein like.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	Dn	56	Total	C	N	O	S	0	0
			468	289	97	81	1		

- Molecule 42 is a protein called EF-hand domain-containing family member B.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	E	148	Total	C	N	O	S	0	0
			1181	742	206	230	3		
42	F	455	Total	C	N	O	S	0	0
			3679	2344	655	667	13		

- Molecule 43 is a protein called Tektin bundle interacting protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	E1	197	Total	C	N	O	S	1	0
			1648	1052	300	292	4		
43	E2	197	Total	C	N	O	S	1	0
			1648	1052	300	292	4		
43	E3	197	Total	C	N	O	S	0	0
			1641	1047	299	291	4		
43	E4	145	Total	C	N	O	S	1	0
			1221	782	222	214	3		

- Molecule 44 is a protein called Tektin-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	ES	425	Total	C	N	O	S	0	0
			3483	2143	653	672	15		
44	ET	278	Total	C	N	O	S	0	0
			2273	1404	416	445	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
44	EU	329	Total	C	N	O	S	0	0
			2692	1660	501	517	14		
44	EV	425	Total	C	N	O	S	0	0
			3483	2143	653	672	15		
44	EW	319	Total	C	N	O	S	0	0
			2601	1601	482	504	14		
44	EX	436	Total	C	N	O	S	0	0
			3560	2192	665	687	16		
44	EY	311	Total	C	N	O	S	0	0
			2552	1578	476	486	12		
44	EZ	443	Total	C	N	O	S	0	0
			3615	2228	673	698	16		

- Molecule 45 is a protein called Chromosome 7 open reading frame 31.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	G	282	Total	C	N	O	S	0	0
			2317	1475	409	427	6		

- Molecule 46 is a protein called Cilia- and flagella- associated protein 210.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	H	102	Total	C	N	O	S	0	0
			848	533	146	166	3		
46	o	397	Total	C	N	O	S	0	0
			3401	2106	640	644	11		

- Molecule 47 is a protein called EF-hand domain-containing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	I	447	Total	C	N	O	S	0	0
			3689	2376	623	676	14		
47	X	448	Total	C	N	O	S	0	0
			3692	2385	621	672	14		
47	Y	454	Total	C	N	O	S	0	0
			3743	2416	631	682	14		

- Molecule 48 is a protein called Uncharacterized protein C10orf82 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	J	116	Total	C	N	O	S	0	0
			951	599	178	165	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
48	K	116	Total 951	C 599	N 178	O 165	S 9	0	0
48	L	108	Total 891	C 562	N 167	O 155	S 7	0	0
48	M	89	Total 728	C 459	N 135	O 127	S 7	0	0

- Molecule 49 is a protein called Cilia- and flagella-associated protein 144.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	K1	116	Total 992	C 627	N 186	O 177	S 2	0	0

- Molecule 50 is a protein called Chromosome 20 C5orf49 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	L1	134	Total 1090	C 685	N 208	O 195	S 2	0	0
50	L2	90	Total 743	C 467	N 137	O 137	S 2	0	0

- Molecule 51 is a protein called Chromosome 19 C17orf98 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	N	142	Total 1173	C 737	N 232	O 199	S 5	0	0
51	O	137	Total 1134	C 715	N 222	O 194	S 3	0	0

- Molecule 52 is a protein called Chromosome 13 C20orf85 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	P	105	Total 870	C 564	N 151	O 153	S 2	0	0

- Molecule 53 is a protein called Cilia- and flagella-associated protein 68.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	Q	107	Total 919	C 584	N 160	O 170	S 5	0	0

- Molecule 54 is a protein called Cilia and flagella associated protein 77.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	R	140	Total	C	N	O	S	0	0
			1162	731	225	200	6		
54	S	140	Total	C	N	O	S	0	0
			1162	731	225	200	6		
54	T	140	Total	C	N	O	S	0	0
			1165	734	226	199	6		
54	U	97	Total	C	N	O	S	0	0
			818	518	155	141	4		

- Molecule 55 is a protein called UPF0602 protein C4orf47 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	W	124	Total	C	N	O	S	0	0
			990	626	176	185	3		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
W	199	PRO	THR	variant	UNP Q2T9M0

- Molecule 56 is a protein called Cilia- and flagella-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	XG	182	Total	C	N	O	S	0	0
			1512	969	266	270	7		
56	XH	182	Total	C	N	O	S	0	0
			1512	969	266	270	7		
56	XI	182	Total	C	N	O	S	0	0
			1512	969	266	270	7		
56	XJ	182	Total	C	N	O	S	0	0
			1512	969	266	270	7		
56	XK	182	Total	C	N	O	S	0	0
			1512	969	266	270	7		
56	XL	181	Total	C	N	O	S	0	0
			1503	963	264	269	7		
56	XM	180	Total	C	N	O	S	0	0
			1494	958	262	267	7		

- Molecule 57 is a protein called Parkin coregulated gene protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	YG	210	Total	C	N	O	S	0	0
			1706	1108	288	301	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
57	YH	218	Total	C	N	O	S	0	0
			1759	1138	297	315	9		
57	YI	218	Total	C	N	O	S	0	0
			1759	1138	297	315	9		
57	YJ	218	Total	C	N	O	S	0	0
			1759	1138	297	315	9		
57	YK	218	Total	C	N	O	S	0	0
			1759	1138	297	315	9		
57	YL	218	Total	C	N	O	S	0	0
			1759	1138	297	315	9		

- Molecule 58 is a protein called CFAP97 domain containing 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	Z	117	Total	C	N	O	S	0	0
			1014	632	205	175	2		
58	p	54	Total	C	N	O	S	0	0
			459	294	88	76	1		
58	q	96	Total	C	N	O	S	0	0
			829	510	169	148	2		

- Molecule 59 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	a	185	Total	C	N	O	S	0	0
			1559	959	297	294	9		
59	b	327	Total	C	N	O	S	0	0
			2814	1700	563	539	12		
59	c	297	Total	C	N	O	S	0	0
			2525	1544	478	487	16		
59	d	203	Total	C	N	O	S	0	0
			1728	1048	349	326	5		

- Molecule 60 is a protein called Cilia- and flagella-associated protein 52.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	e	610	Total	C	N	O	S	0	0
			4722	2990	823	877	32		
60	f	609	Total	C	N	O	S	0	0
			4713	2985	822	874	32		
60	g	609	Total	C	N	O	S	0	0
			4713	2985	822	874	32		

- Molecule 61 is a protein called Cilia- and flagella-associated protein 141.

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

- Molecule 62 is a protein called Cilia- and flagella-associated protein 161.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	i	255	Total	C	N	O	S	0	0
			2055	1302	369	373	11		
62	j	268	Total	C	N	O	S	0	0
			2158	1367	386	394	11		

- Molecule 63 is a protein called Dual specificity phosphatase 21.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	k	157	Total	C	N	O	S	0	0
			1245	797	207	230	11		
63	l	137	Total	C	N	O	S	0	0
			1098	706	185	199	8		
63	m	159	Total	C	N	O	S	0	0
			1263	807	211	234	11		
63	n	114	Total	C	N	O	S	0	0
			908	587	147	167	7		

- Molecule 64 is a protein called Uncharacterized protein C4orf45 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	ke	97	Total	C	N	O	S	0	0
			796	516	138	141	1		

- Molecule 65 is a protein called Cilia- and flagella-associated protein 276.

Mol	Chain	Residues	Atoms				AltConf	Trace
65	r	77	Total	C	N	O	0	0
			615	386	113	116		
65	s	78	Total	C	N	O	0	0
			624	391	115	118		
65	t	78	Total	C	N	O	0	0
			624	391	115	118		

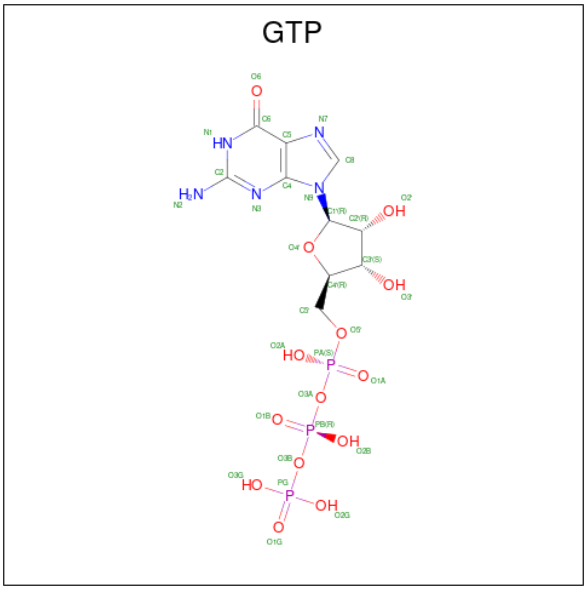
- Molecule 66 is a protein called EF-hand calcium-binding domain-containing protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	u	128	Total	C	N	O	S	0	0
			1081	697	188	192	4		
66	v	113	Total	C	N	O	S	0	0
			957	620	164	170	3		
66	w	128	Total	C	N	O	S	0	0
			1081	697	188	192	4		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
u	290	ALA	GLU	variant	UNP Q2T9P0
u	303	SER	THR	variant	UNP Q2T9P0
v	290	ALA	GLU	variant	UNP Q2T9P0
v	303	SER	THR	variant	UNP Q2T9P0
w	290	ALA	GLU	variant	UNP Q2T9P0
w	303	SER	THR	variant	UNP Q2T9P0

- Molecule 67 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
67	AA	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	AC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	AD	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	AG	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
67	AH	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	AK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	AM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	BA	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	BC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	BE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	BG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	BI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	BK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	BM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	CA	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	CB	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	CD	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	CG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	CH	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	CJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	CL	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	DA	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	DC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	DE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	DF	1	Total	C	N	O	P	0
			32	10	5	14	3	

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

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Mol	Chain	Residues	Atoms					AltConf
67	HC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	HE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	HG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	HI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	HK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	HL	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	HN	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	IC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	IE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	IG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	II	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	IK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	IM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	IN	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	JC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	JE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	JG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	JI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	JK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	JM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	KC	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
67	KE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	KG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	KI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	KK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	KM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	KO	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	LC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	LE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	LG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	LI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	LK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	LM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	MC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	ME	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	MG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	MI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	MK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	MM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	NA	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	NB	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	NE	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
67	NF	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	NI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	NK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	O0	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	OC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	OE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	OF	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	OH	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	OK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	PA	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	PC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	PD	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	PG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	PI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	PK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	PM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	QA	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	QC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	QE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	QG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	QI	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
67	QK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	QM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	RA	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	RB	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	RE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	RG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	RI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	RK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	RM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	SA	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	SC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	SE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	SF	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	SI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	SK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	SM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	TC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	TE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	TG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	TI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	TK	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
67	TM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	UC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	UE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	UG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	UI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	UK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	UM	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	VC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	VE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	VG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	VI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	VK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	VL	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	WC	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	WE	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	WG	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	WI	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	WK	1	Total	C	N	O	P	0
			32	10	5	14	3	
67	WM	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 68 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	AltConf
68	AA	1	Total Mg 1 1	0
68	AC	1	Total Mg 1 1	0
68	AE	1	Total Mg 1 1	0
68	AG	1	Total Mg 1 1	0
68	AI	1	Total Mg 1 1	0
68	AK	1	Total Mg 1 1	0
68	AM	1	Total Mg 1 1	0
68	BA	1	Total Mg 1 1	0
68	BC	1	Total Mg 1 1	0
68	BE	1	Total Mg 1 1	0
68	BG	1	Total Mg 1 1	0
68	BI	1	Total Mg 1 1	0
68	BK	1	Total Mg 1 1	0
68	BM	1	Total Mg 1 1	0
68	CA	1	Total Mg 1 1	0
68	CC	1	Total Mg 1 1	0
68	CE	1	Total Mg 1 1	0
68	CG	1	Total Mg 1 1	0
68	CI	1	Total Mg 1 1	0
68	CK	1	Total Mg 1 1	0
68	CM	1	Total Mg 1 1	0
68	DA	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
68	DC	1	Total Mg 1 1	0
68	DE	1	Total Mg 1 1	0
68	DG	1	Total Mg 1 1	0
68	DI	1	Total Mg 1 1	0
68	DK	1	Total Mg 1 1	0
68	DM	1	Total Mg 1 1	0
68	EC	1	Total Mg 1 1	0
68	EE	1	Total Mg 1 1	0
68	EG	1	Total Mg 1 1	0
68	EI	1	Total Mg 1 1	0
68	EJ	1	Total Mg 1 1	0
68	EM	1	Total Mg 1 1	0
68	FC	1	Total Mg 1 1	0
68	FE	1	Total Mg 1 1	0
68	FG	1	Total Mg 1 1	0
68	FI	1	Total Mg 1 1	0
68	FK	1	Total Mg 1 1	0
68	FM	1	Total Mg 1 1	0
68	GC	1	Total Mg 1 1	0
68	GE	1	Total Mg 1 1	0
68	GG	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
68	GI	1	Total Mg 1 1	0
68	GK	1	Total Mg 1 1	0
68	GM	1	Total Mg 1 1	0
68	HC	1	Total Mg 1 1	0
68	HE	1	Total Mg 1 1	0
68	HG	1	Total Mg 1 1	0
68	HI	1	Total Mg 1 1	0
68	HK	1	Total Mg 1 1	0
68	HM	1	Total Mg 1 1	0
68	HO	1	Total Mg 1 1	0
68	IC	1	Total Mg 1 1	0
68	IE	1	Total Mg 1 1	0
68	IG	1	Total Mg 1 1	0
68	II	1	Total Mg 1 1	0
68	IK	1	Total Mg 1 1	0
68	IM	1	Total Mg 1 1	0
68	IO	1	Total Mg 1 1	0
68	JC	1	Total Mg 1 1	0
68	JE	1	Total Mg 1 1	0
68	JG	1	Total Mg 1 1	0
68	JI	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
68	JK	1	Total Mg 1 1	0
68	JM	1	Total Mg 1 1	0
68	KC	1	Total Mg 1 1	0
68	KE	1	Total Mg 1 1	0
68	KG	1	Total Mg 1 1	0
68	KI	1	Total Mg 1 1	0
68	KK	1	Total Mg 1 1	0
68	KM	1	Total Mg 1 1	0
68	KN	1	Total Mg 1 1	0
68	LC	1	Total Mg 1 1	0
68	LE	1	Total Mg 1 1	0
68	LG	1	Total Mg 1 1	0
68	LI	1	Total Mg 1 1	0
68	LK	1	Total Mg 1 1	0
68	LL	1	Total Mg 1 1	0
68	MC	1	Total Mg 1 1	0
68	ME	1	Total Mg 1 1	0
68	MG	1	Total Mg 1 1	0
68	MI	1	Total Mg 1 1	0
68	MK	1	Total Mg 1 1	0
68	MM	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
68	NA	1	Total Mg 1 1	0
68	NC	1	Total Mg 1 1	0
68	NE	1	Total Mg 1 1	0
68	NG	1	Total Mg 1 1	0
68	NI	1	Total Mg 1 1	0
68	NK	1	Total Mg 1 1	0
68	OA	1	Total Mg 1 1	0
68	OC	1	Total Mg 1 1	0
68	OE	1	Total Mg 1 1	0
68	OG	1	Total Mg 1 1	0
68	OI	1	Total Mg 1 1	0
68	OK	1	Total Mg 1 1	0
68	PA	1	Total Mg 1 1	0
68	PC	1	Total Mg 1 1	0
68	PE	1	Total Mg 1 1	0
68	PG	1	Total Mg 1 1	0
68	PH	1	Total Mg 1 1	0
68	PK	1	Total Mg 1 1	0
68	PM	1	Total Mg 1 1	0
68	QA	1	Total Mg 1 1	0
68	QC	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
68	QE	1	Total Mg 1 1	0
68	QG	1	Total Mg 1 1	0
68	QI	1	Total Mg 1 1	0
68	QK	1	Total Mg 1 1	0
68	QM	1	Total Mg 1 1	0
68	RA	1	Total Mg 1 1	0
68	RC	1	Total Mg 1 1	0
68	RE	1	Total Mg 1 1	0
68	RG	1	Total Mg 1 1	0
68	RI	1	Total Mg 1 1	0
68	RK	1	Total Mg 1 1	0
68	RM	1	Total Mg 1 1	0
68	SA	1	Total Mg 1 1	0
68	SC	1	Total Mg 1 1	0
68	SE	1	Total Mg 1 1	0
68	SG	1	Total Mg 1 1	0
68	SI	1	Total Mg 1 1	0
68	SK	1	Total Mg 1 1	0
68	SM	1	Total Mg 1 1	0
68	TC	1	Total Mg 1 1	0
68	TE	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
68	TG	1	Total Mg 1 1	0
68	TH	1	Total Mg 1 1	0
68	TK	1	Total Mg 1 1	0
68	TM	1	Total Mg 1 1	0
68	UC	1	Total Mg 1 1	0
68	UE	1	Total Mg 1 1	0
68	UG	1	Total Mg 1 1	0
68	UI	1	Total Mg 1 1	0
68	UK	1	Total Mg 1 1	0
68	UM	1	Total Mg 1 1	0
68	VC	1	Total Mg 1 1	0
68	VE	1	Total Mg 1 1	0
68	VG	1	Total Mg 1 1	0
68	VI	1	Total Mg 1 1	0
68	VK	1	Total Mg 1 1	0
68	VM	1	Total Mg 1 1	0
68	WC	1	Total Mg 1 1	0
68	WE	1	Total Mg 1 1	0
68	WG	1	Total Mg 1 1	0
68	WI	1	Total Mg 1 1	0
68	WK	1	Total Mg 1 1	0

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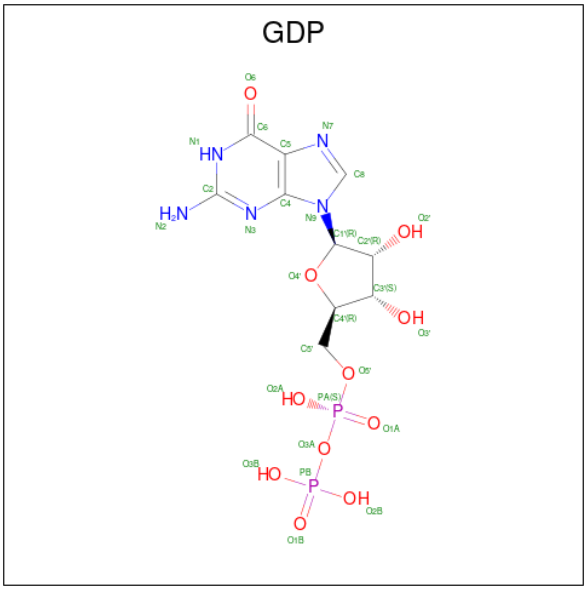
Mol	Chain	Residues	Atoms		AltConf
68	WM	1	Total	Mg	0
			1	1	

- Molecule 69 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).



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

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Mol	Chain	Residues	Atoms					AltConf
69	BJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	BL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	EB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	ED	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	EF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	EH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	EJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	EL	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
69	EN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	FB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	FD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	FF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	FH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	FJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	FL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	FN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	GB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	GD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	GF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	GH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	GJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	GL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	GN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	HB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	HD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	HF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	HH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	HJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	HL	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
69	HN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	ID	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KL	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
69	KN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	ML	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	N0	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	NB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	ND	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	NF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	NH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	NJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
69	NL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	O0	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	RB	1	Total	C	N	O	P	0
			28	10	5	11	2	

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

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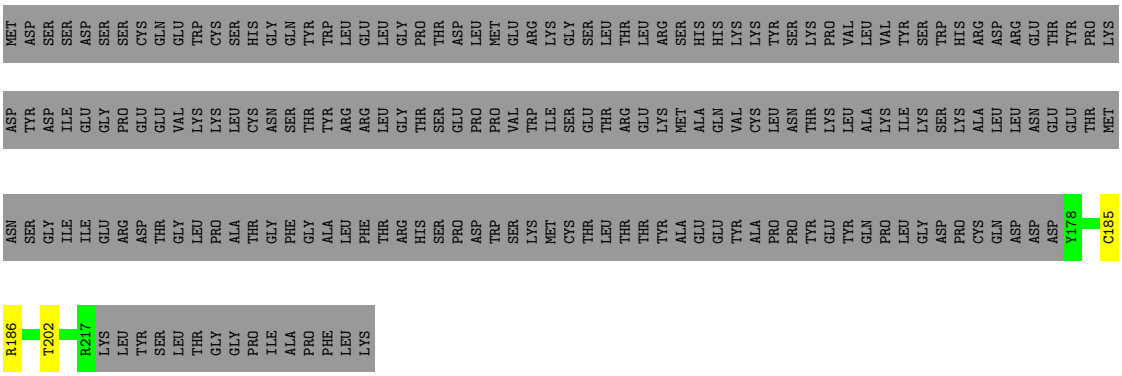
Mol	Chain	Residues	Atoms					AltConf
69	UJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	UL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	UN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	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.

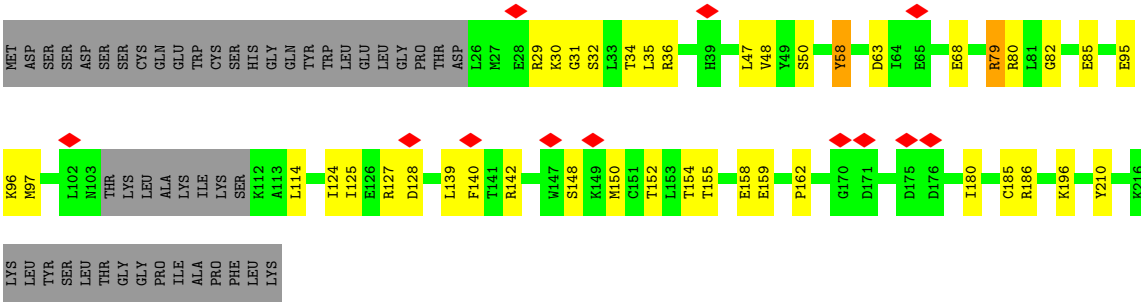
• Molecule 1: Cilia- and flagella-associated protein 95

Chain 0:



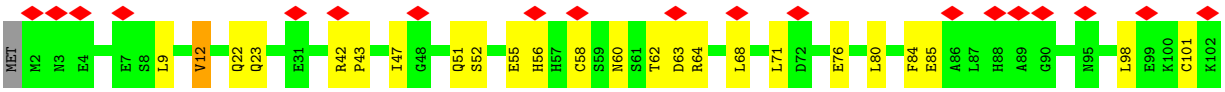
• Molecule 1: Cilia- and flagella-associated protein 95

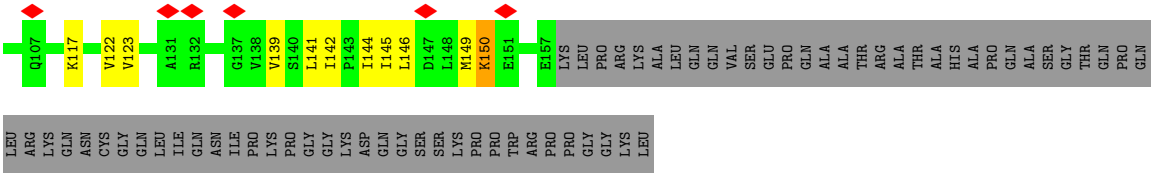
Chain V:



• Molecule 2: Sperm acrosome associated 9

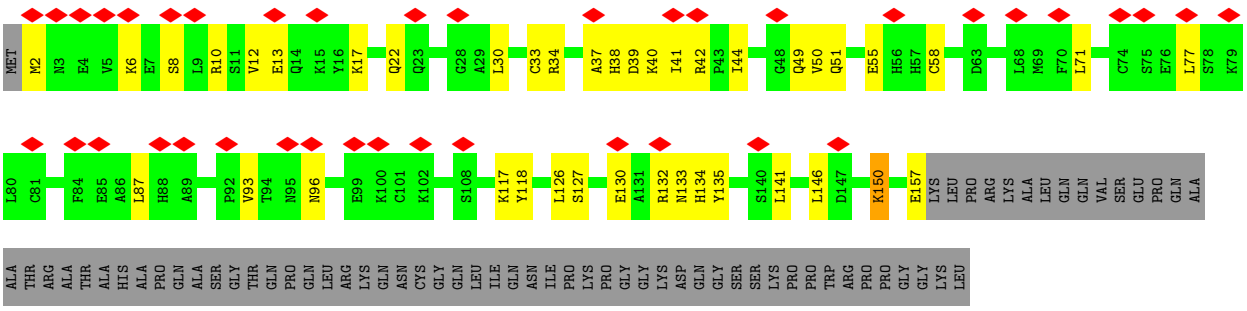
Chain 0A:





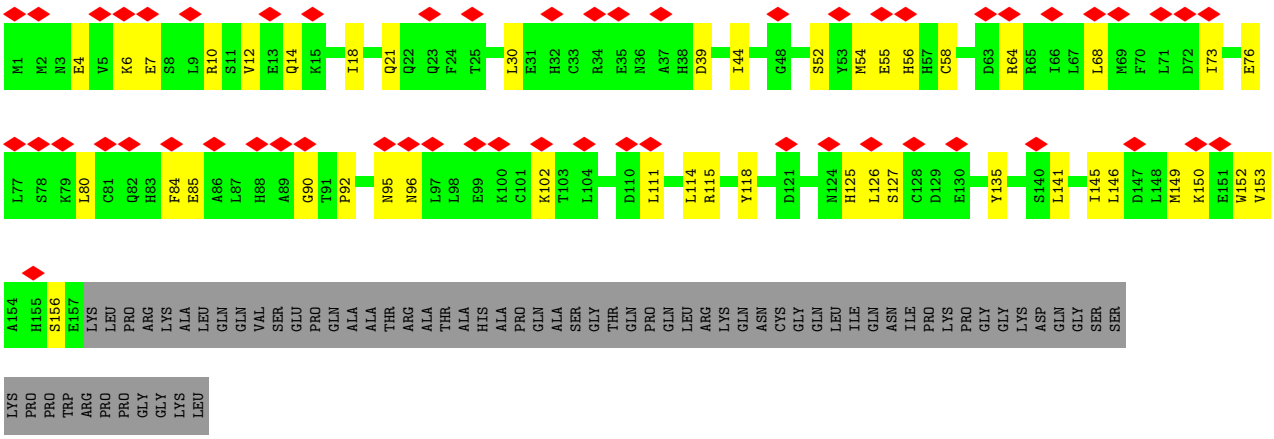
• Molecule 2: Sperm acrosome associated 9

Chain 0C:



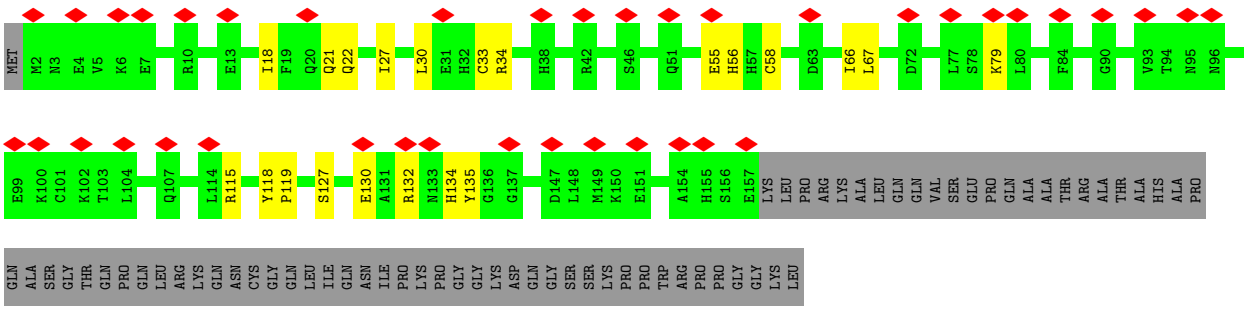
• Molecule 2: Sperm acrosome associated 9

Chain 0E:



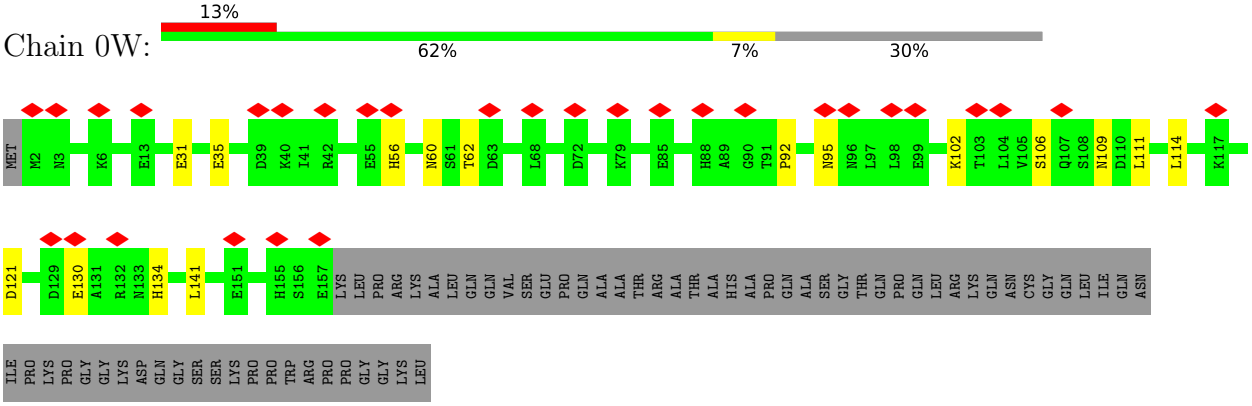
• Molecule 2: Sperm acrosome associated 9

Chain 0G:



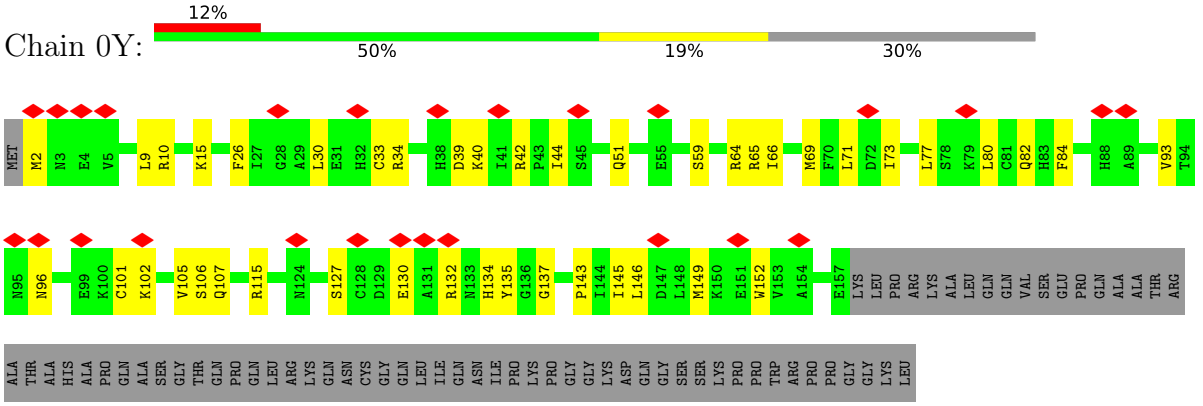
• Molecule 2: Sperm acrosome associated 9

Chain 0W:



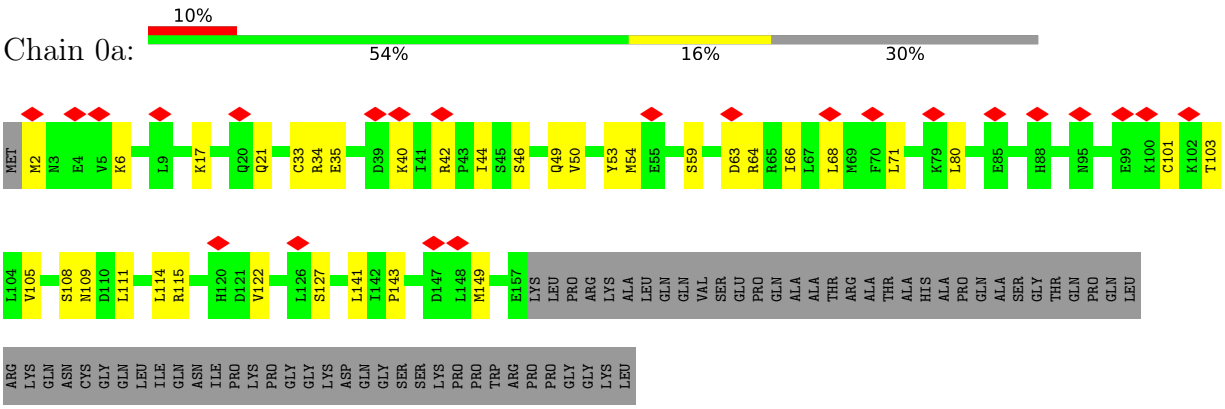
• Molecule 2: Sperm acrosome associated 9

Chain 0Y:



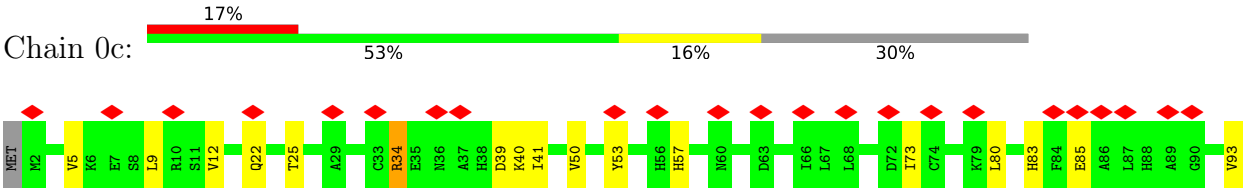
• Molecule 2: Sperm acrosome associated 9

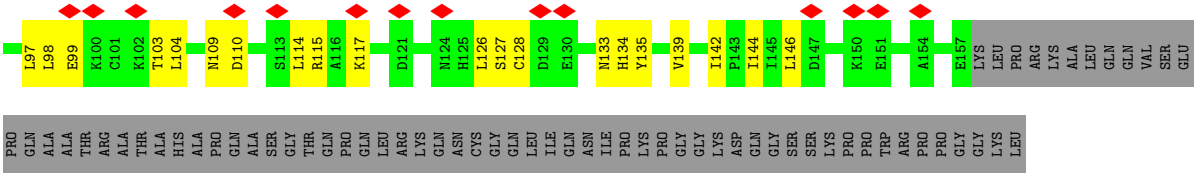
Chain 0a:



• Molecule 2: Sperm acrosome associated 9

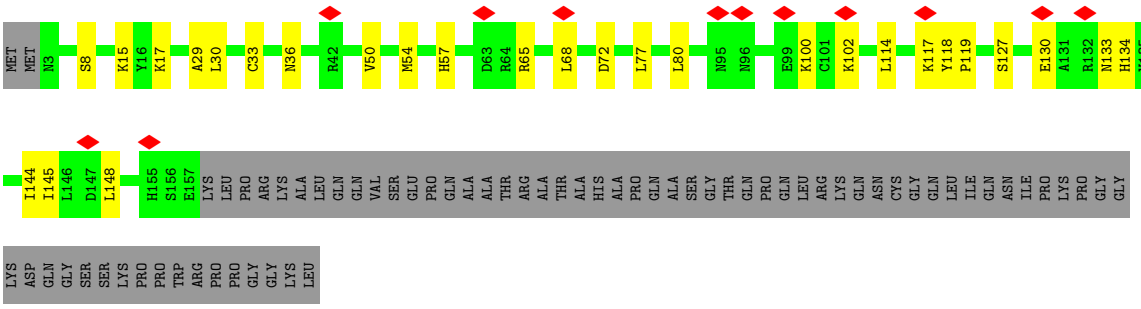
Chain 0c:





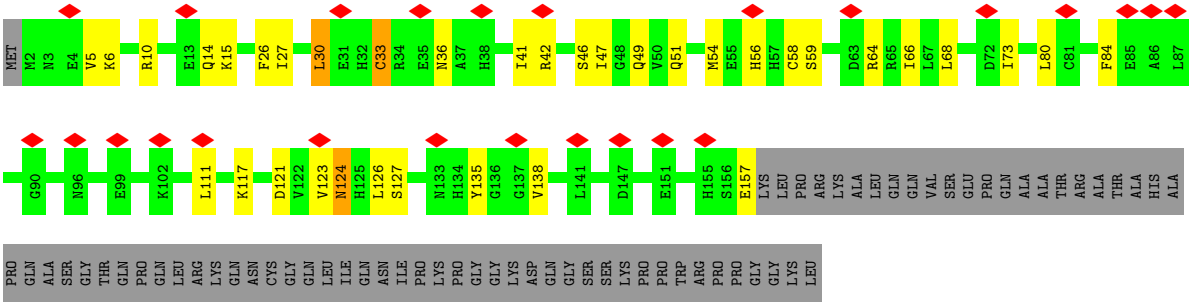
• Molecule 2: Sperm acrosome associated 9

Chain 0e:



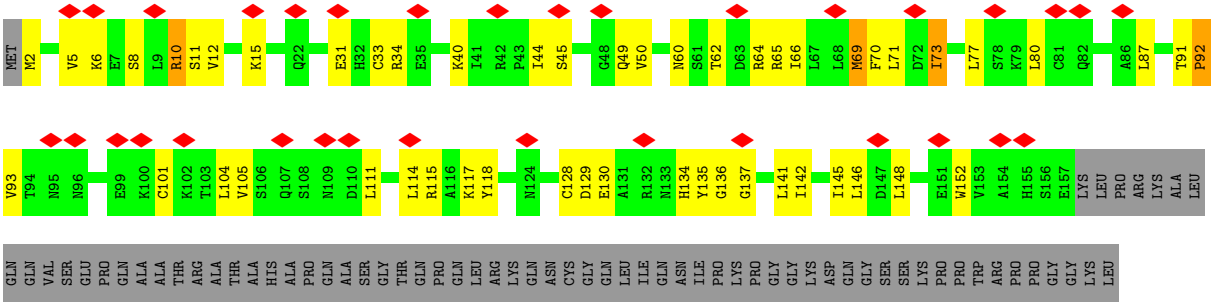
• Molecule 2: Sperm acrosome associated 9

Chain 0g:



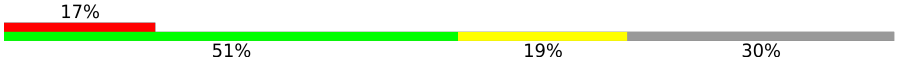
• Molecule 2: Sperm acrosome associated 9

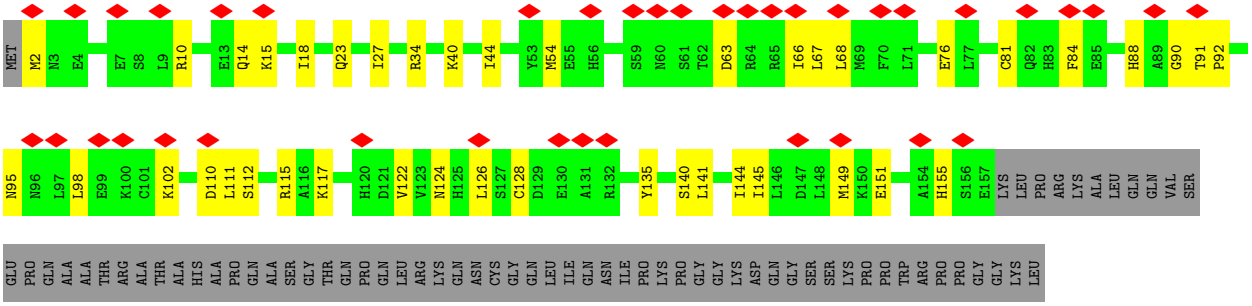
Chain 0i:



• Molecule 2: Sperm acrosome associated 9

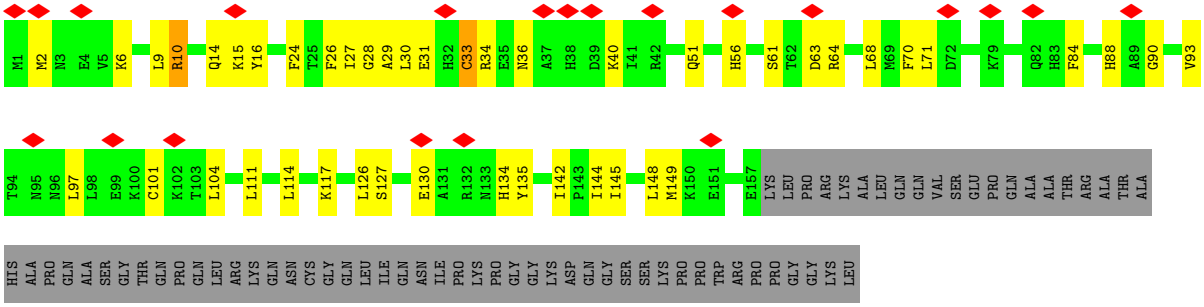
Chain 0k:





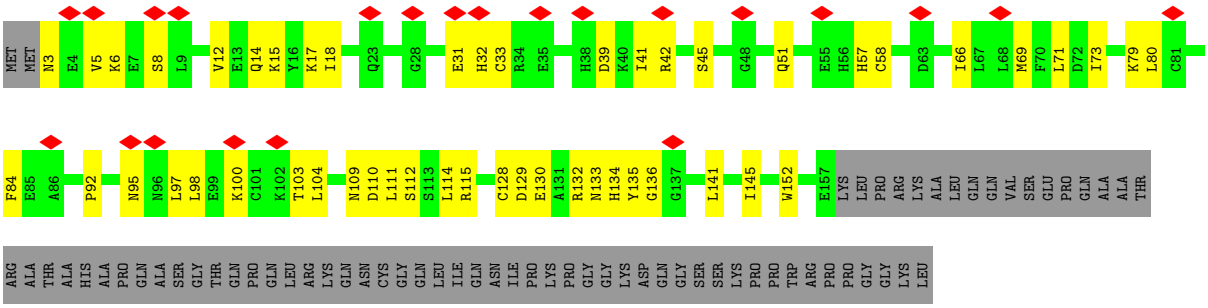
• Molecule 2: Sperm acrosome associated 9

Chain CT:



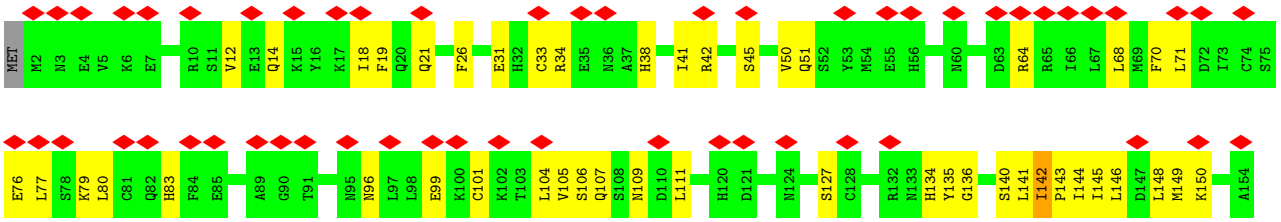
• Molecule 2: Sperm acrosome associated 9

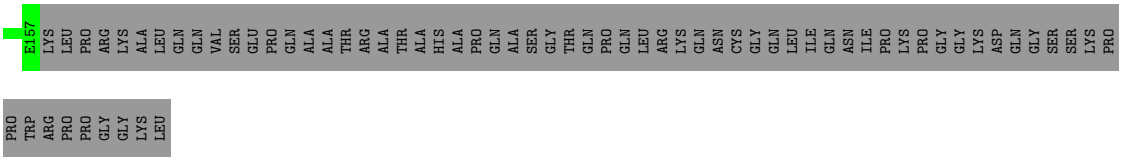
Chain CU:



• Molecule 2: Sperm acrosome associated 9

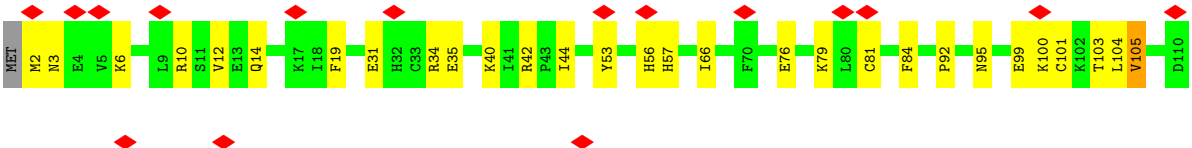
Chain CV:

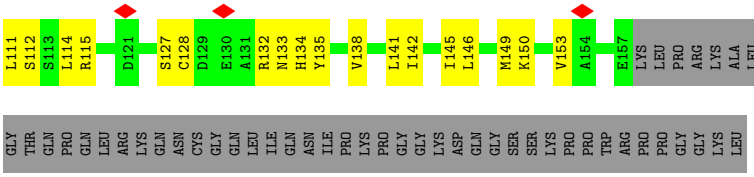




• Molecule 2: Sperm acrosome associated 9

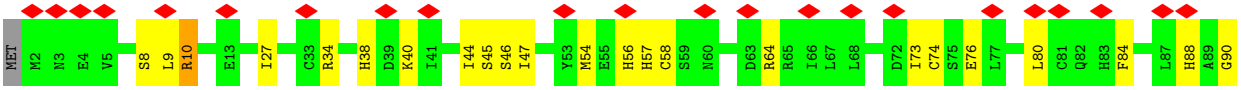
Chain CX:

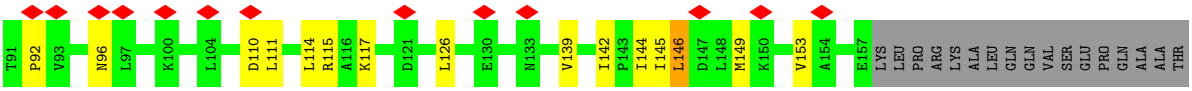




• Molecule 2: Sperm acrosome associated 9

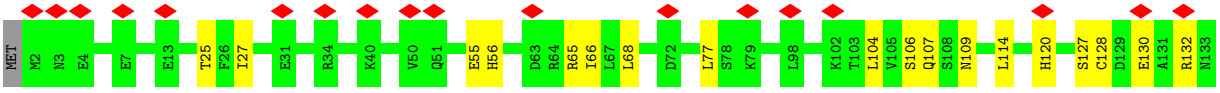
Chain CY:

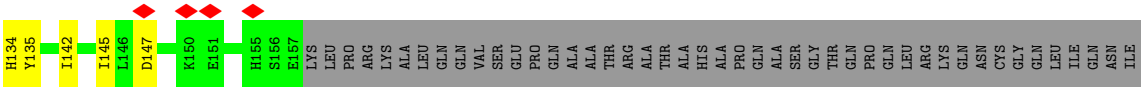




• Molecule 2: Sperm acrosome associated 9

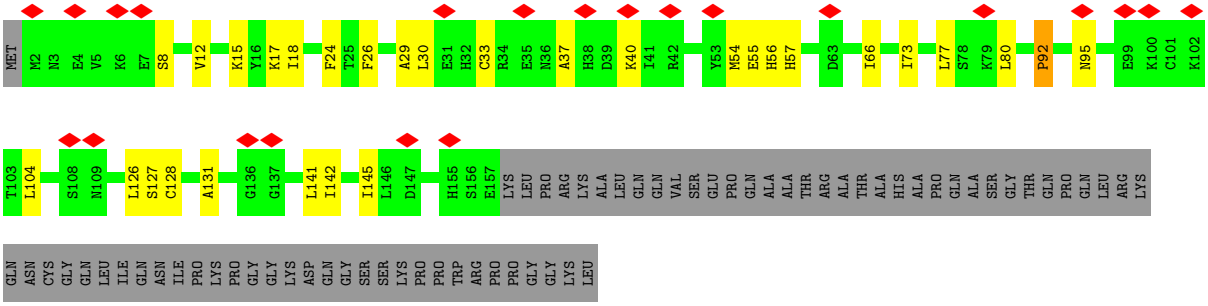
Chain CZ:





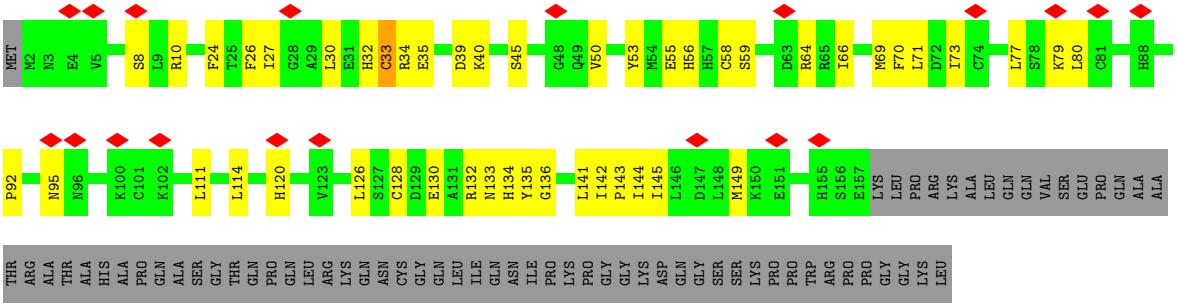
• Molecule 2: Sperm acrosome associated 9

Chain Ca:



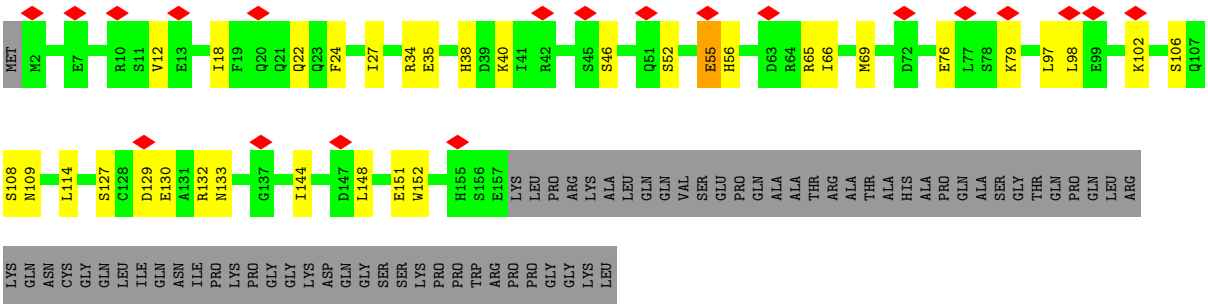
• Molecule 2: Sperm acrosome associated 9

Chain Cb:



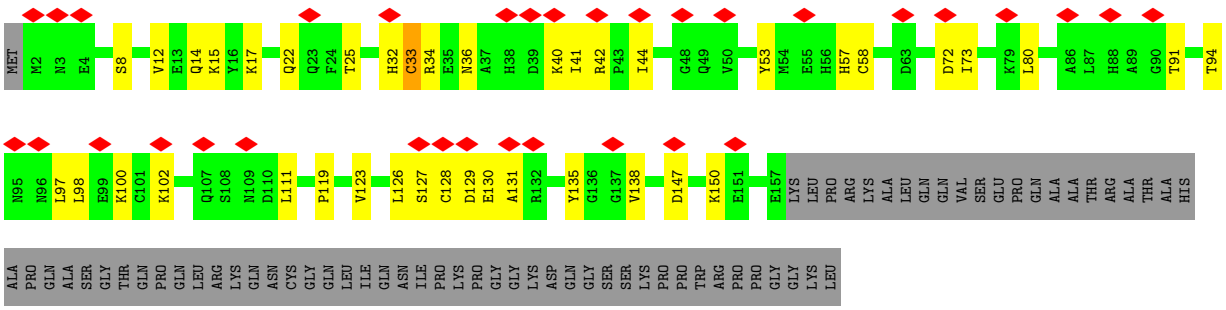
• Molecule 2: Sperm acrosome associated 9

Chain Cc:



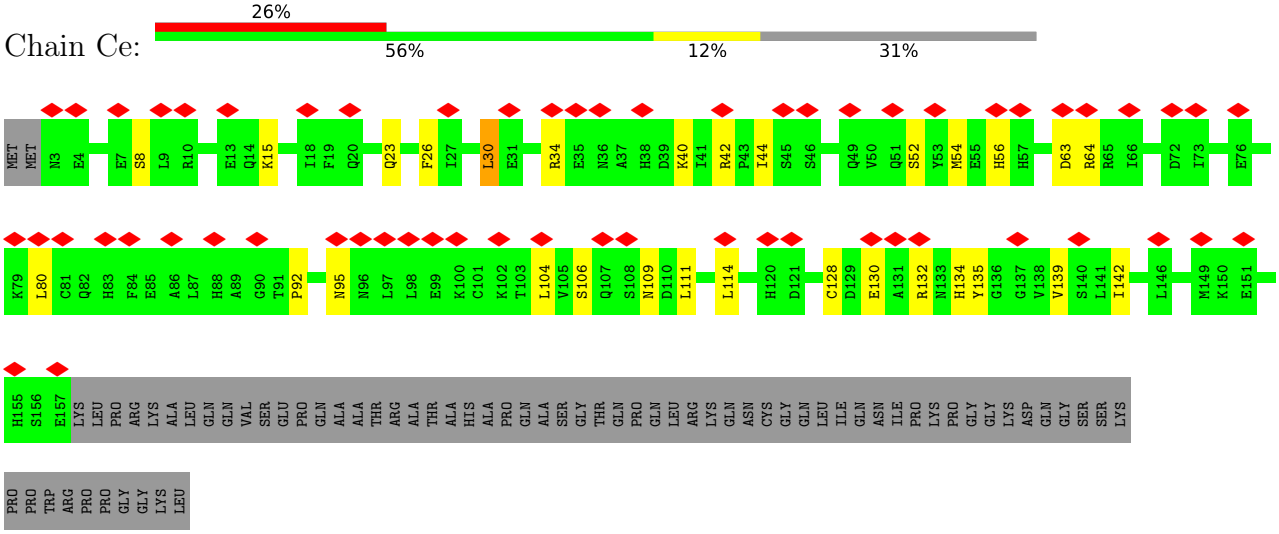
• Molecule 2: Sperm acrosome associated 9

Chain Cd:



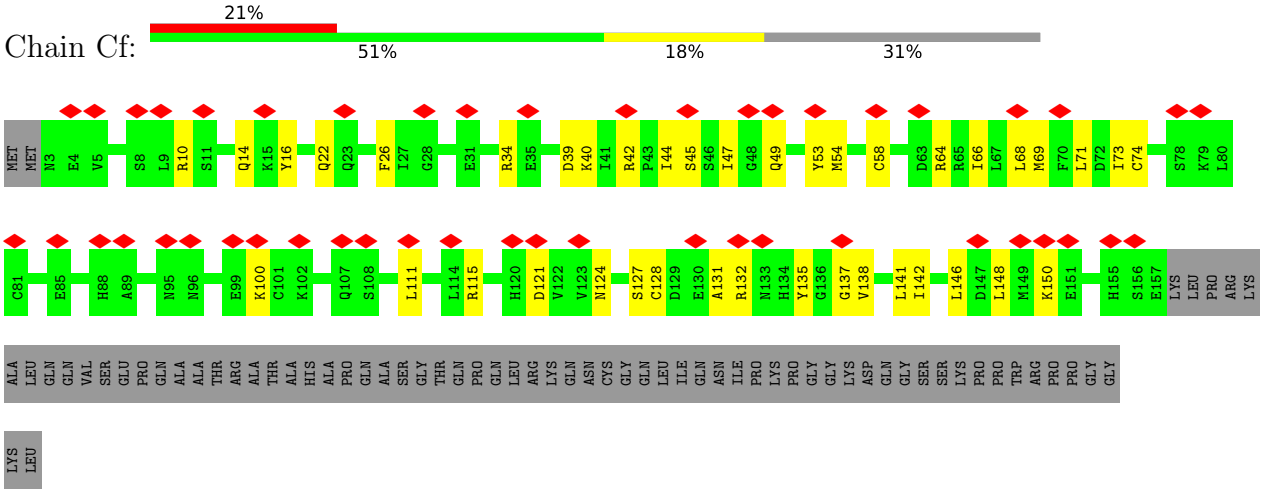
• Molecule 2: Sperm acrosome associated 9

Chain Ce:



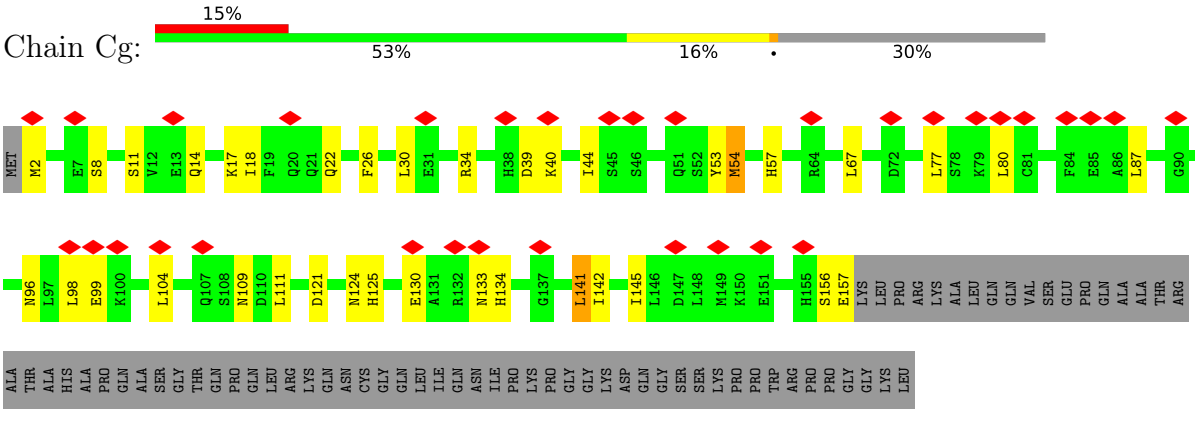
• Molecule 2: Sperm acrosome associated 9

Chain Cf:



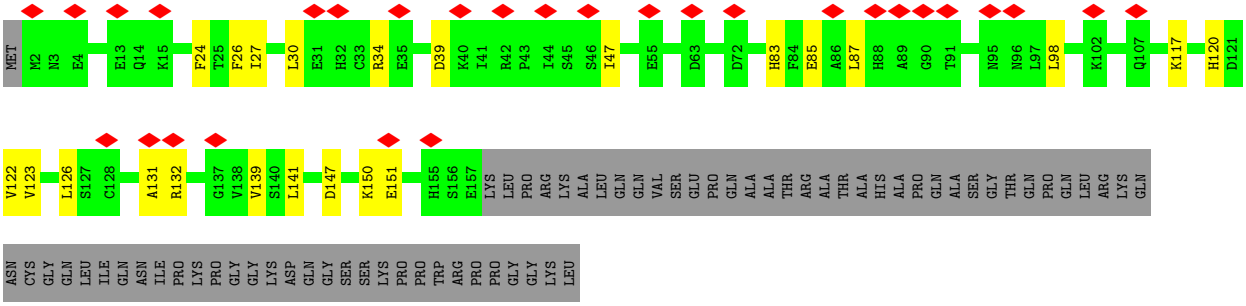
• Molecule 2: Sperm acrosome associated 9

Chain Cg:



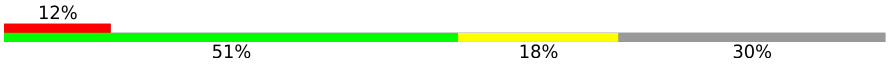
• Molecule 2: Sperm acrosome associated 9

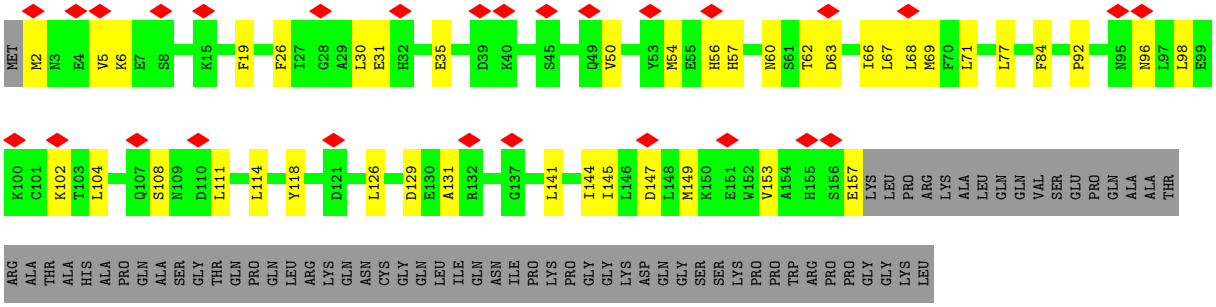
Chain Ch:



• Molecule 2: Sperm acrosome associated 9

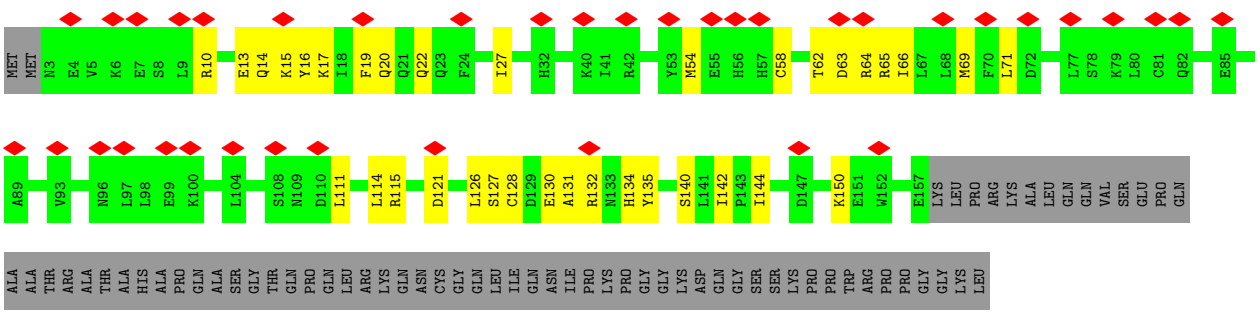
Chain Ci:





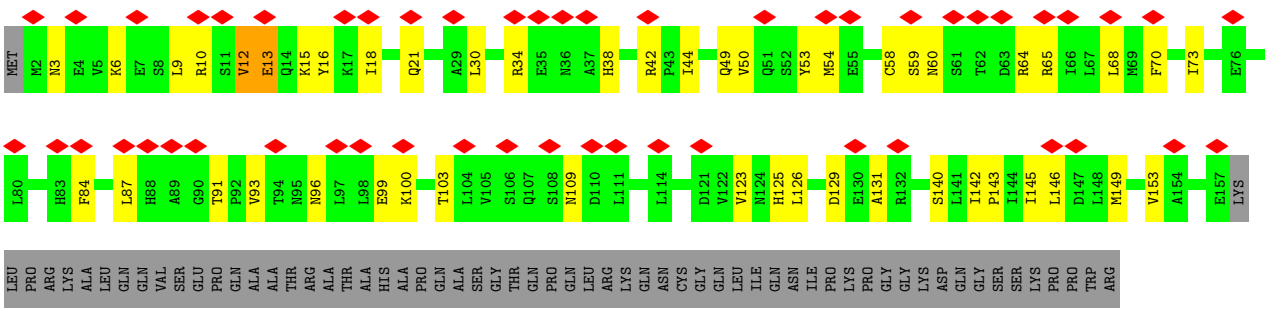
• Molecule 2: Sperm acrosome associated 9

Chain Cj:



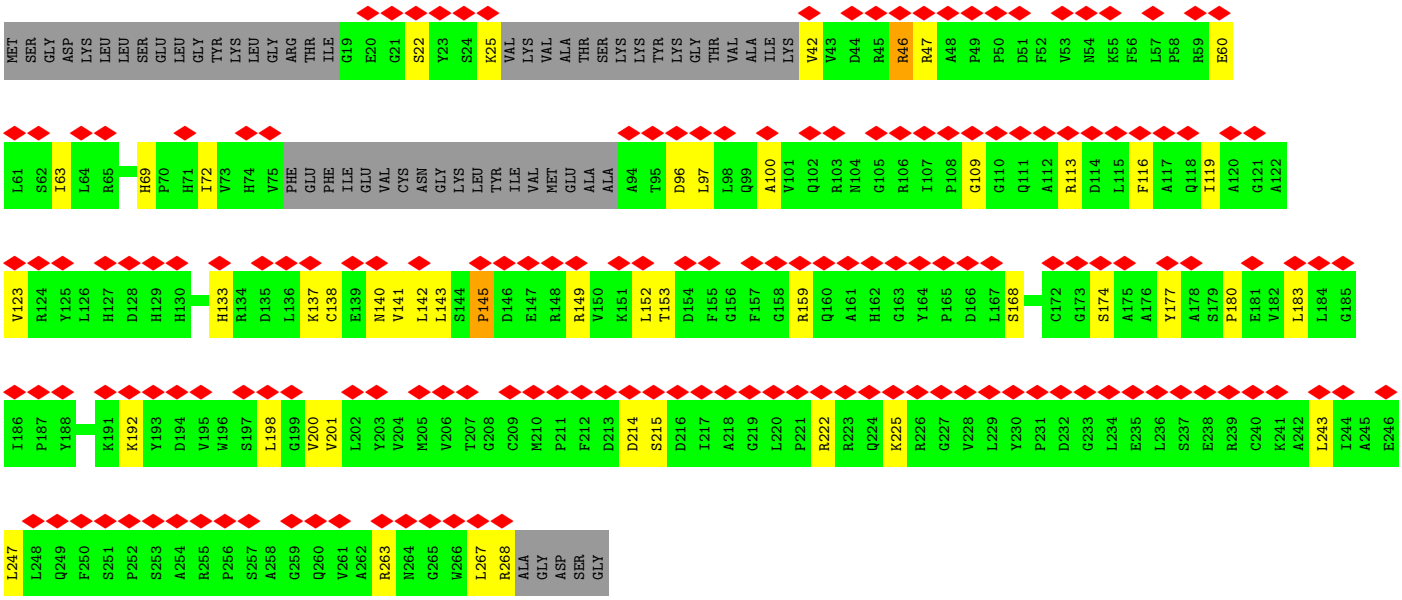
• Molecule 2: Sperm acrosome associated 9

Chain Ck:



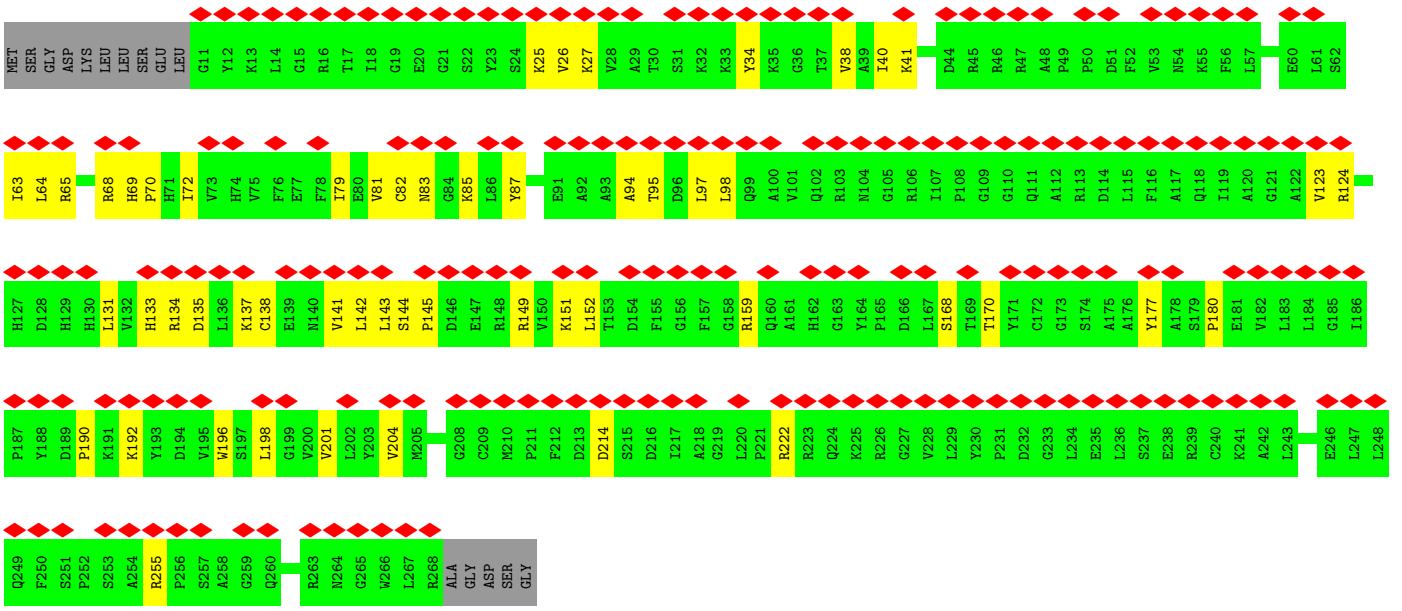
• Molecule 3: Testis specific serine kinase 6

Chain 1:



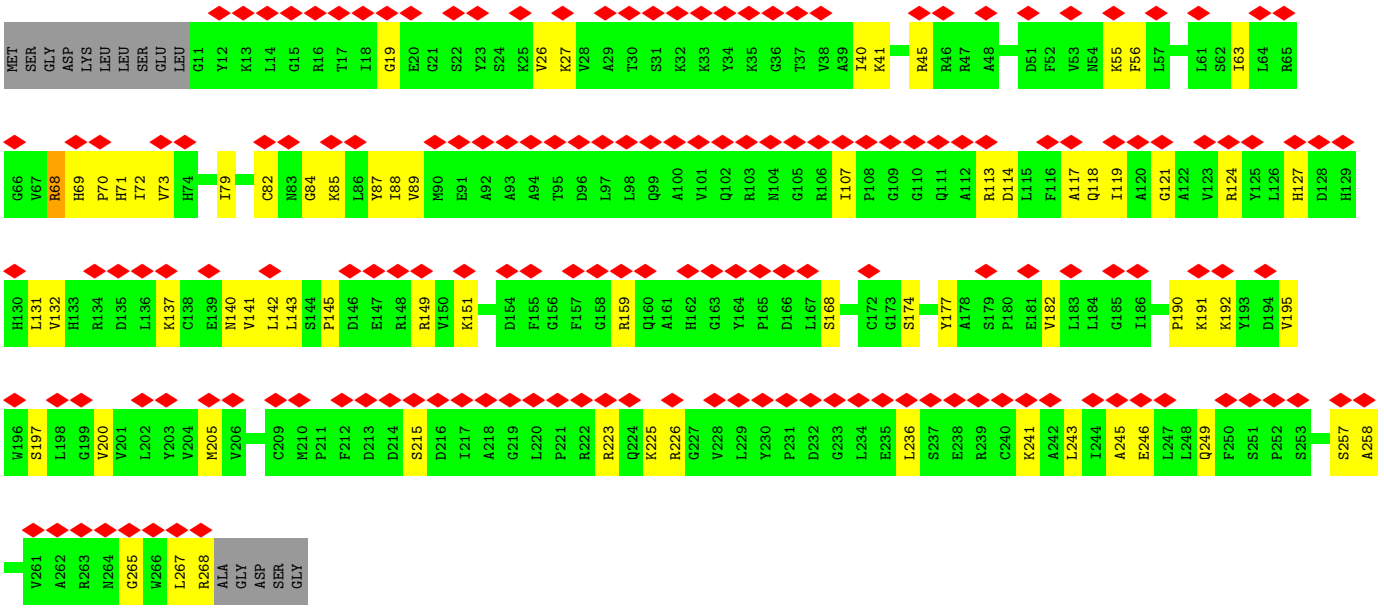
• Molecule 3: Testis specific serine kinase 6

Chain 2:



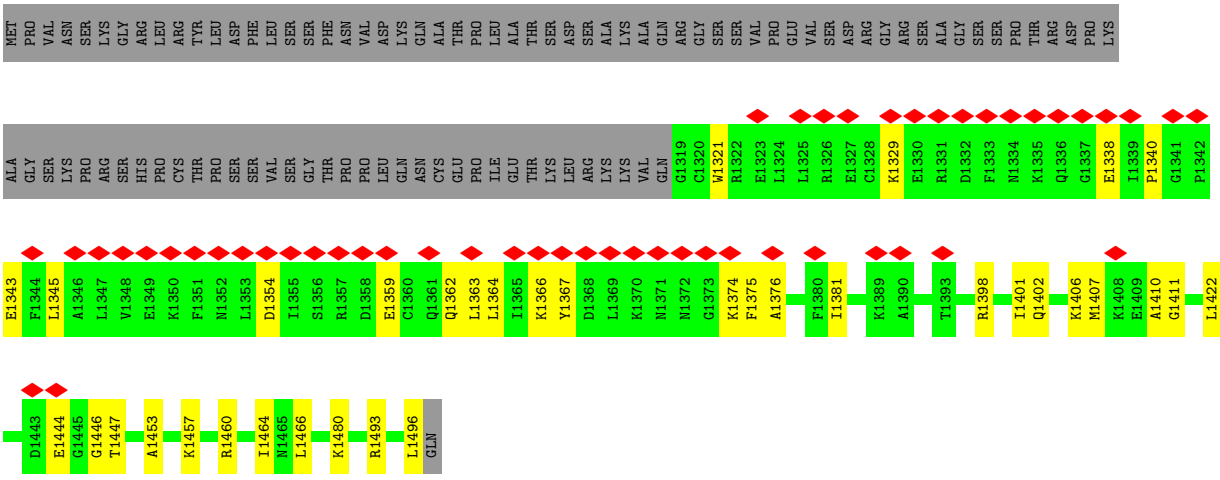
• Molecule 3: Testis specific serine kinase 6

Chain x:



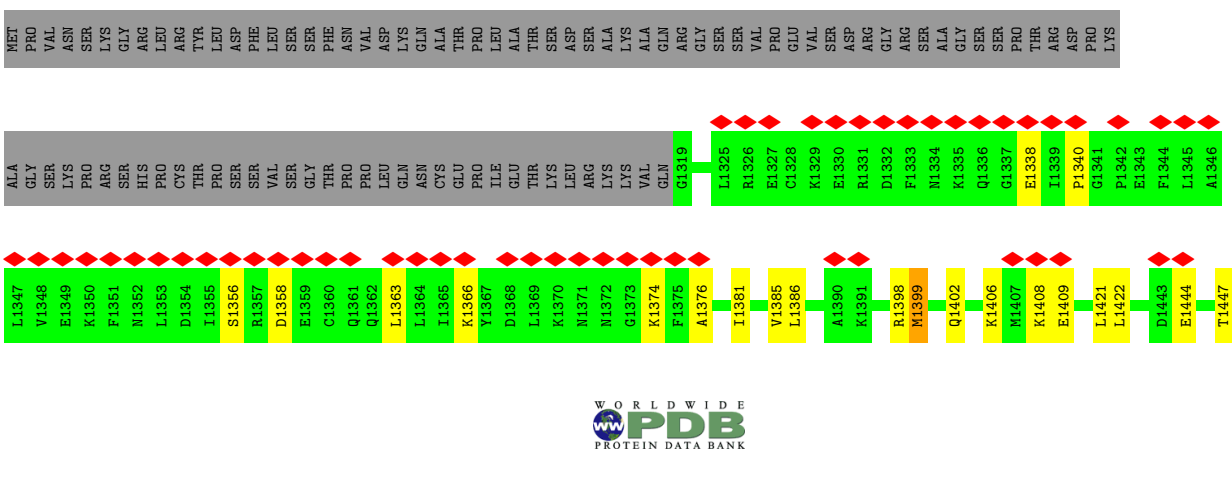
• Molecule 4: EF-hand domain-containing protein

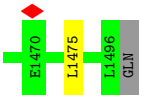
Chain 3:



• Molecule 4: EF-hand domain-containing protein

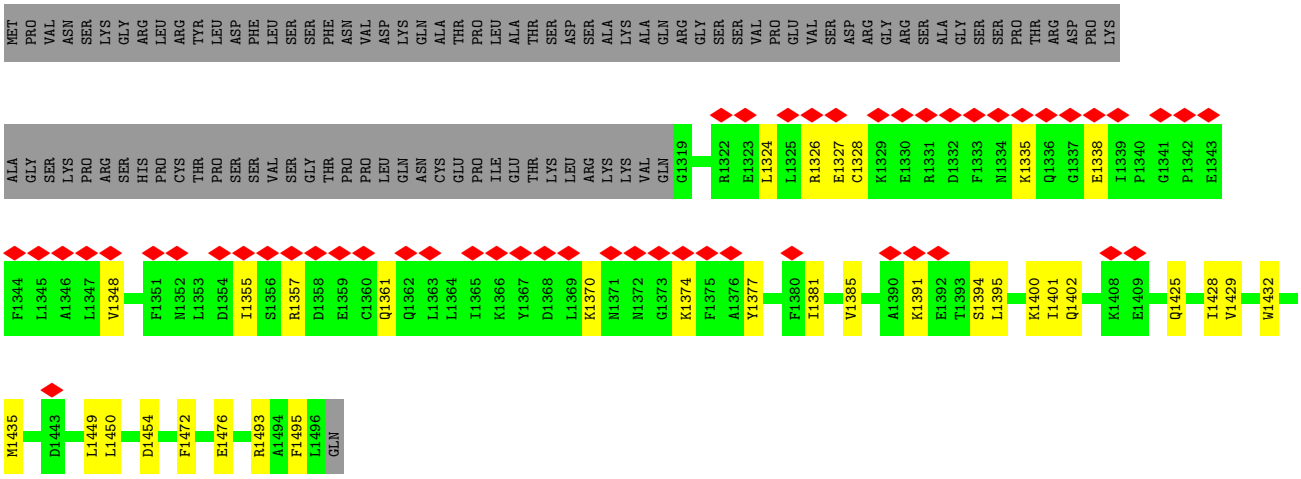
Chain y:





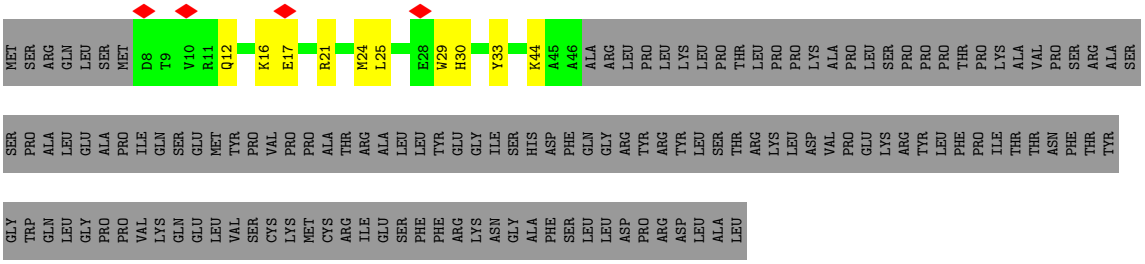
• Molecule 4: EF-hand domain-containing protein

Chain z:



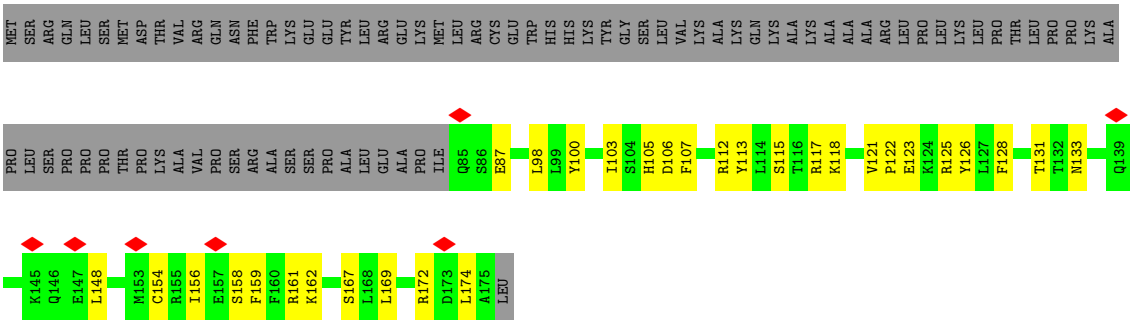
• Molecule 5: ATP6V1F neighbor

Chain A:



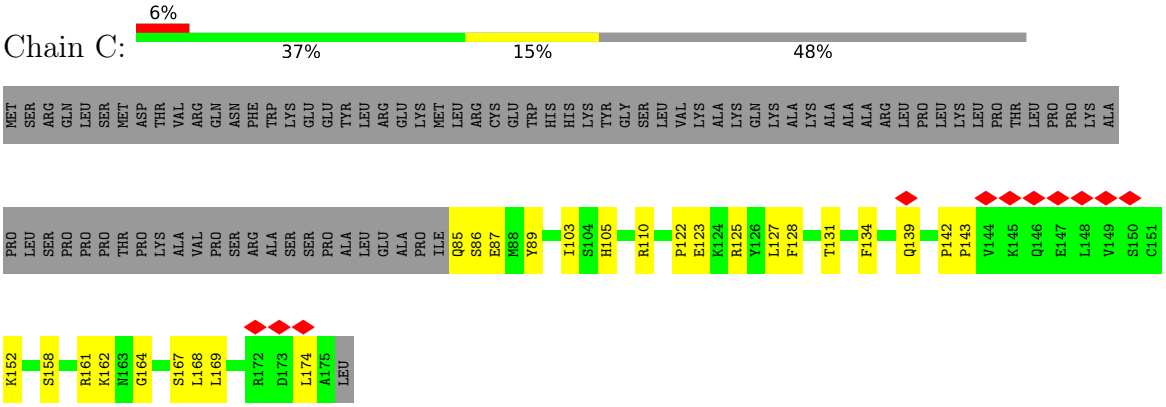
• Molecule 5: ATP6V1F neighbor

Chain B:



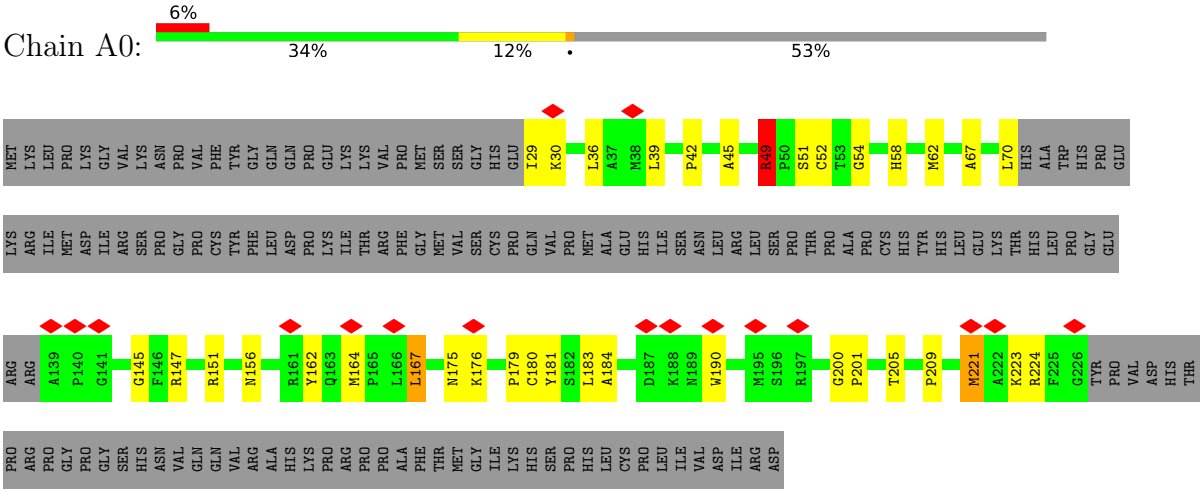
• Molecule 5: ATP6V1F neighbor

Chain C:



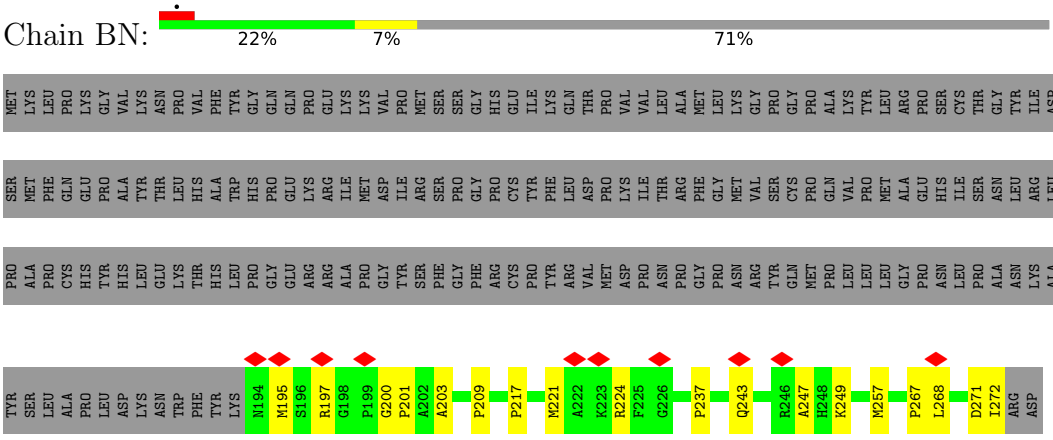
• Molecule 6: Outer dense fiber of sperm tails 3 like 1

Chain A0:



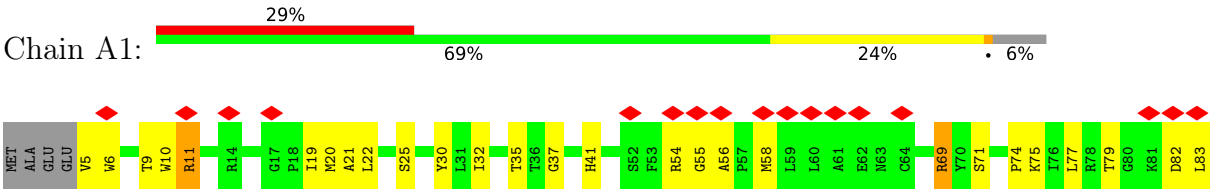
• Molecule 6: Outer dense fiber of sperm tails 3 like 1

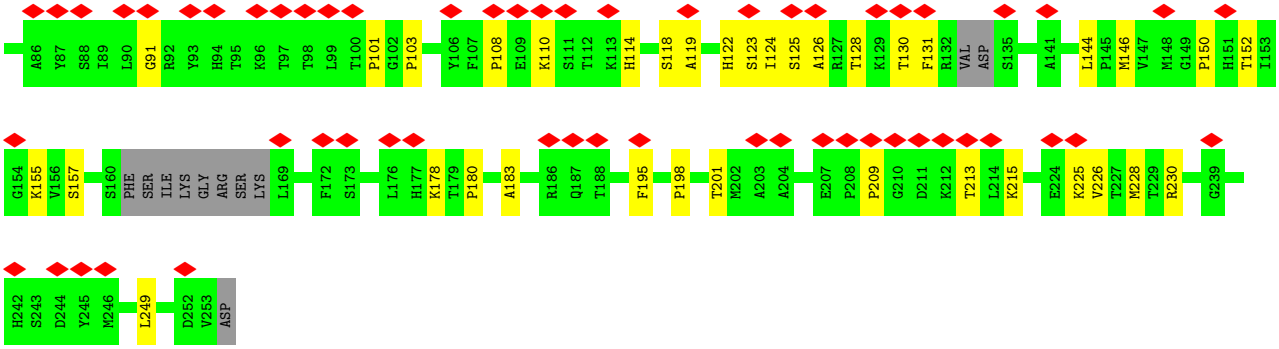
Chain BN:



• Molecule 7: Outer dense fiber of sperm tails 3

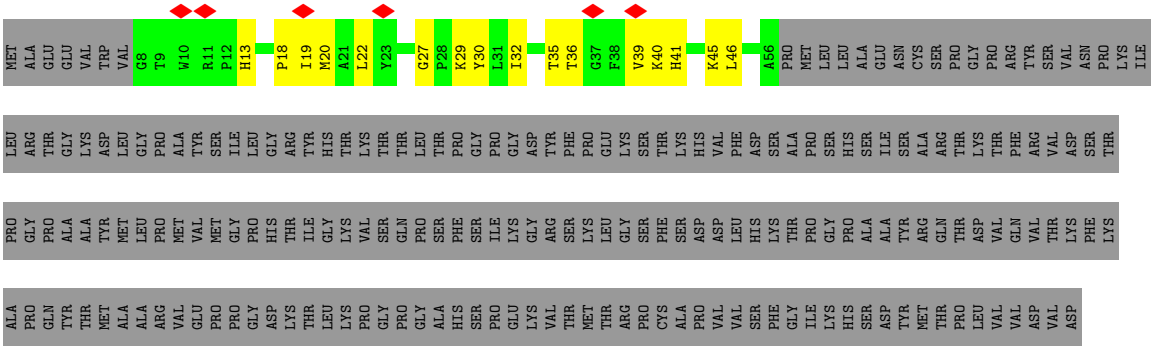
Chain A1:





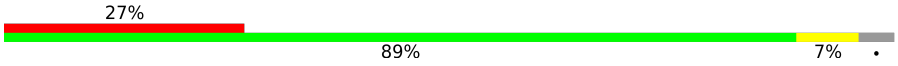
• Molecule 7: Outer dense fiber of sperm tails 3

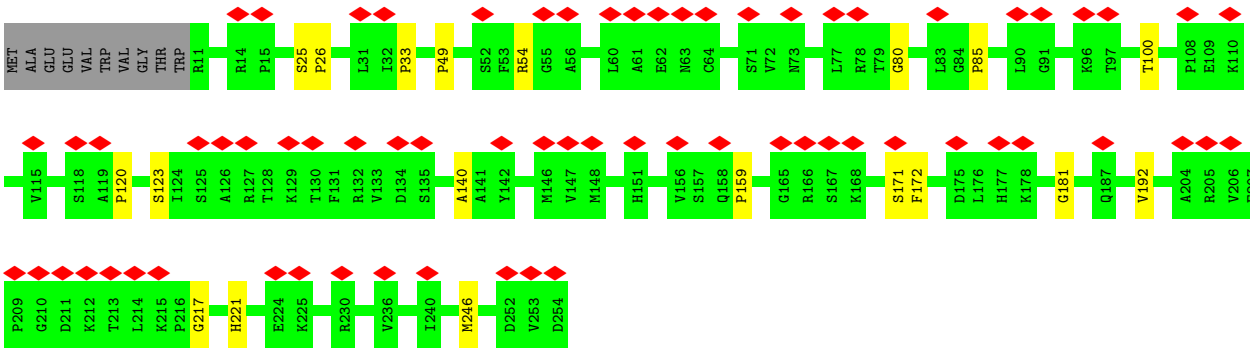
Chain A2:



• Molecule 7: Outer dense fiber of sperm tails 3

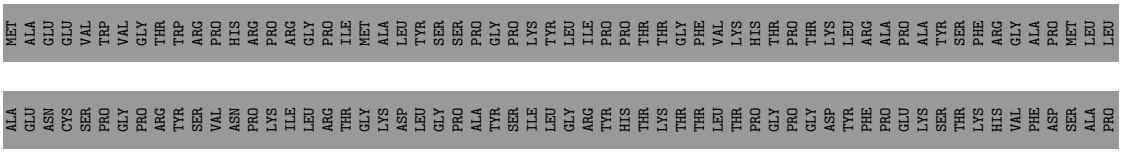
Chain A3:

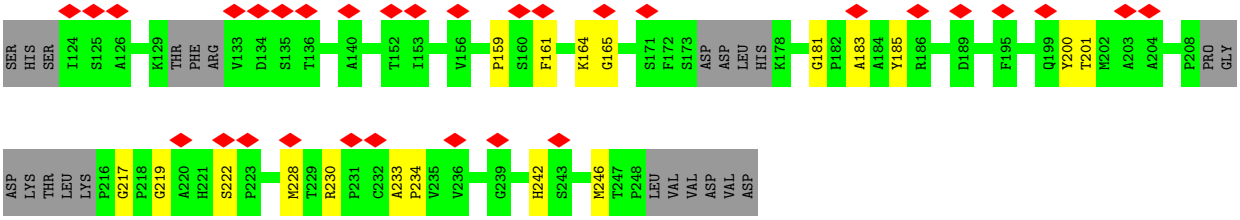




• Molecule 7: Outer dense fiber of sperm tails 3

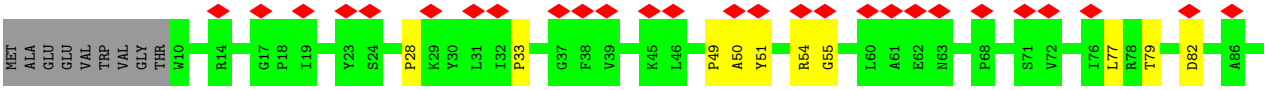
Chain A4:

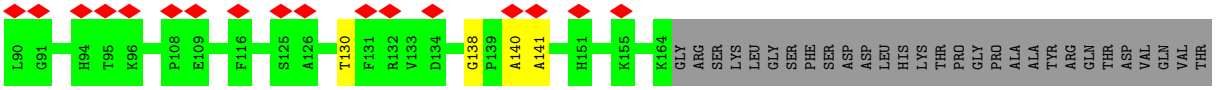




• Molecule 7: Outer dense fiber of sperm tails 3

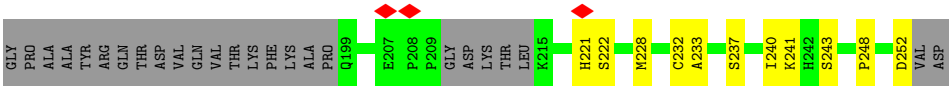
Chain A5:





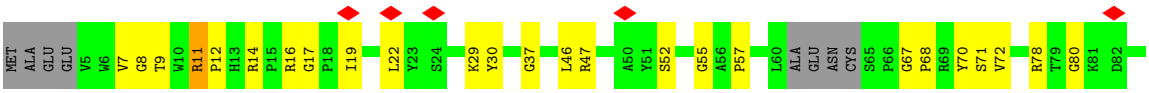
• Molecule 7: Outer dense fiber of sperm tails 3

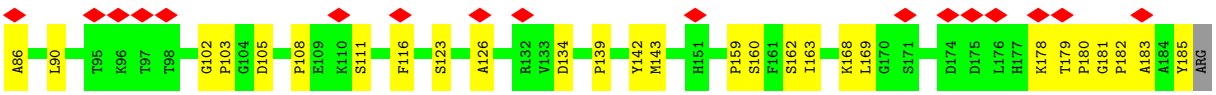
Chain A6:

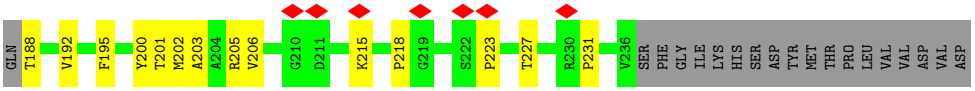


• Molecule 7: Outer dense fiber of sperm tails 3

Chain A7:

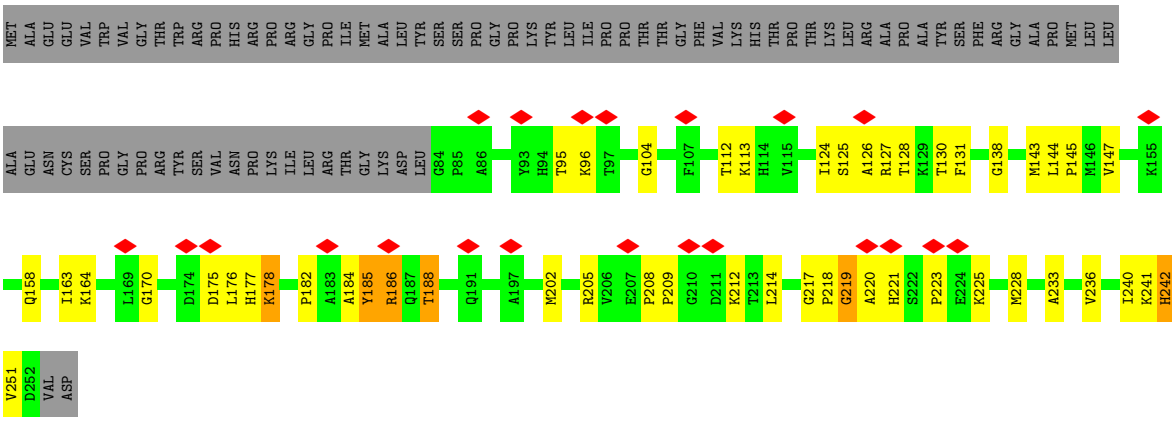






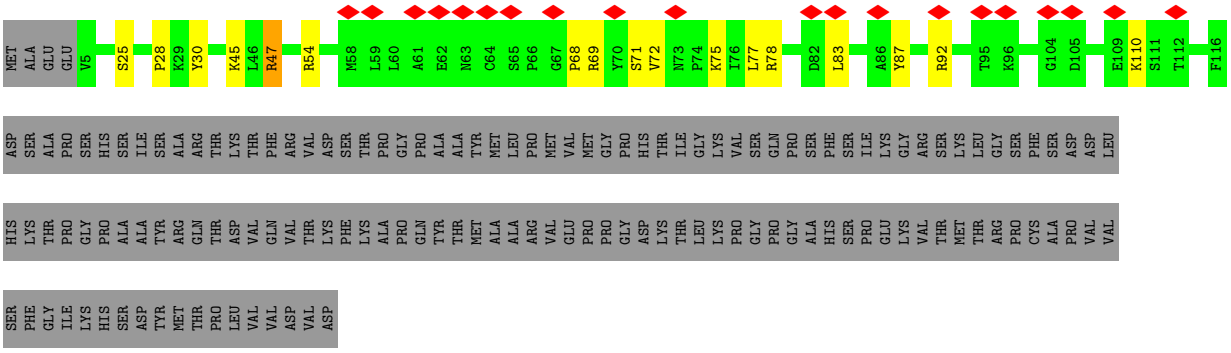
• Molecule 7: Outer dense fiber of sperm tails 3

Chain A8:



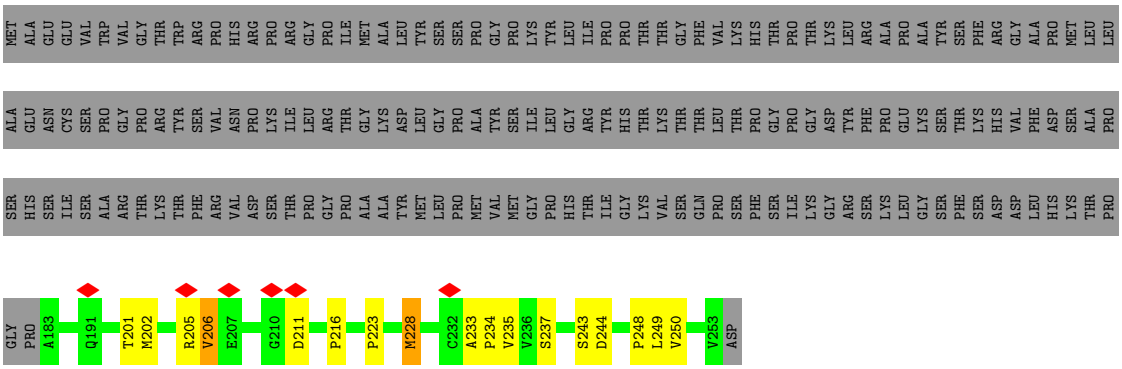
• Molecule 7: Outer dense fiber of sperm tails 3

Chain A9:



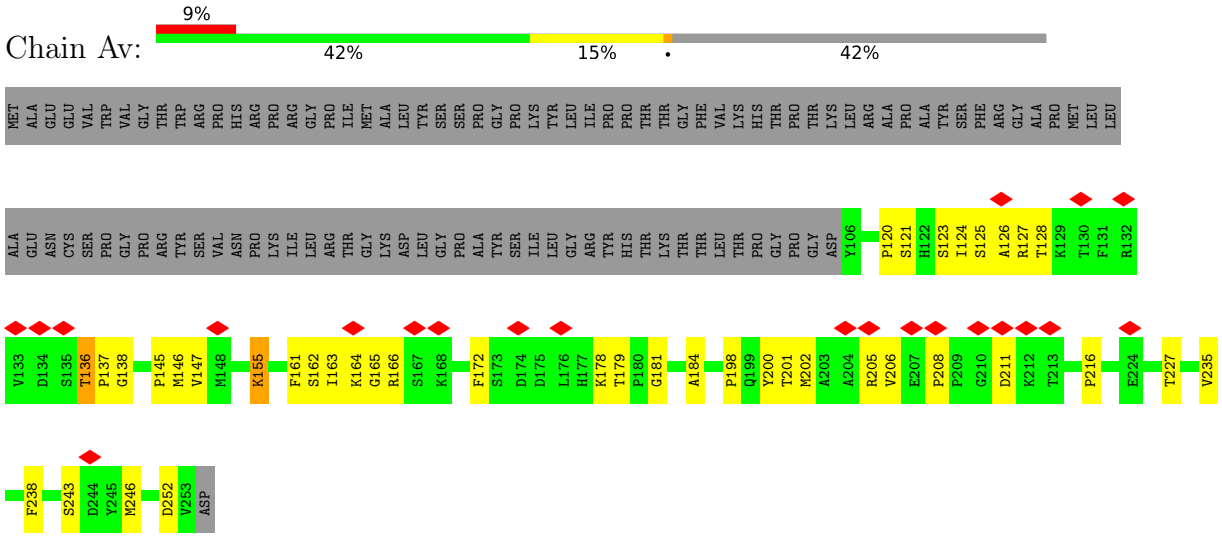
• Molecule 7: Outer dense fiber of sperm tails 3

Chain Au:



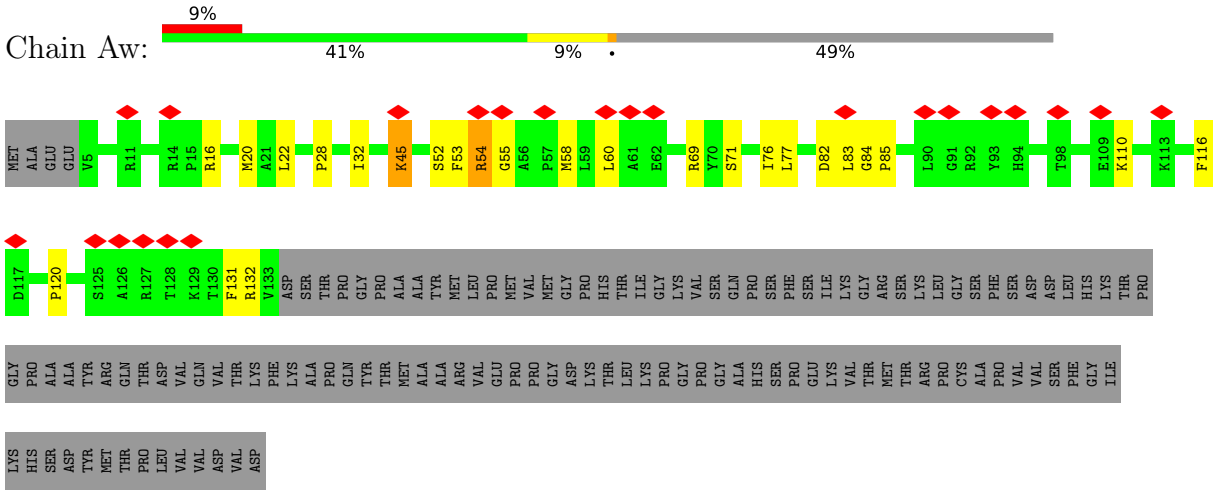
• Molecule 7: Outer dense fiber of sperm tails 3

Chain Av:



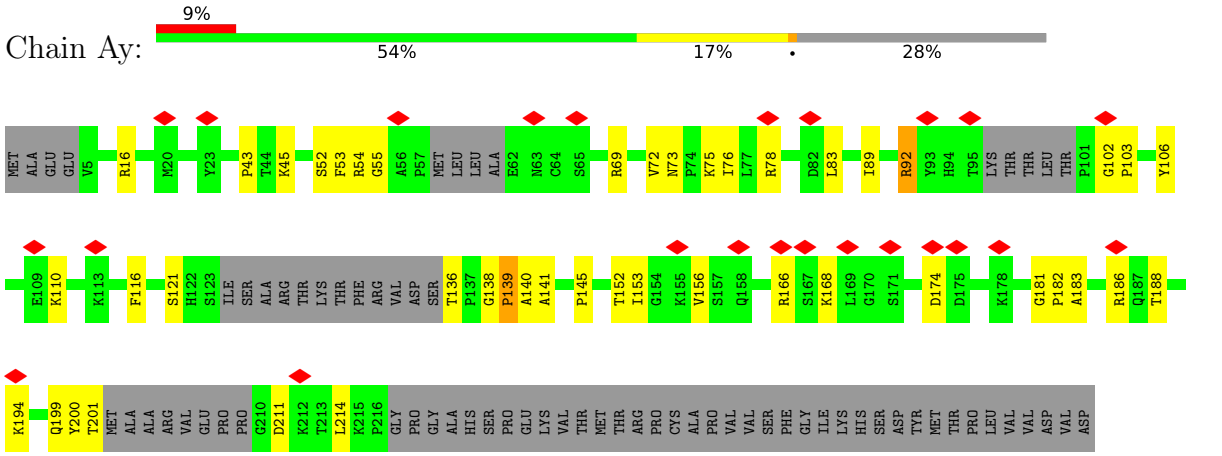
• Molecule 7: Outer dense fiber of sperm tails 3

Chain Aw:



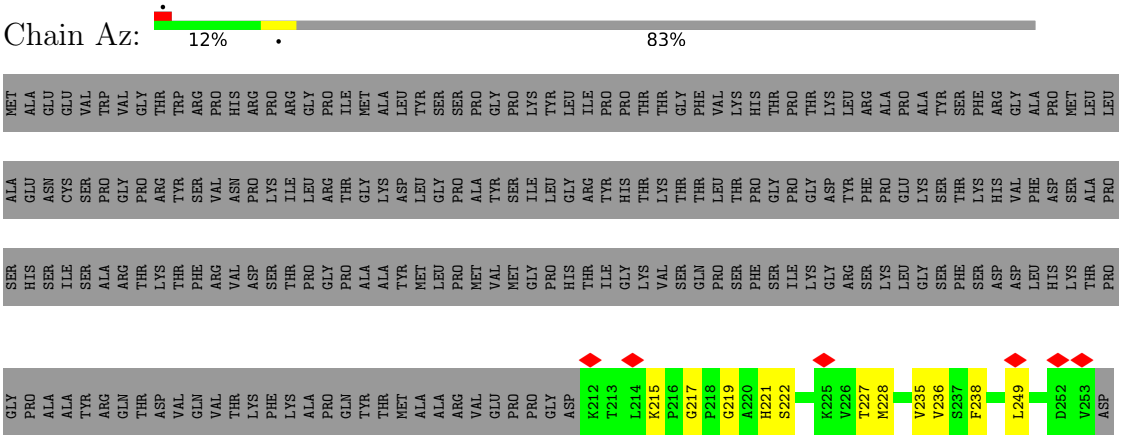
• Molecule 7: Outer dense fiber of sperm tails 3

Chain Ay:



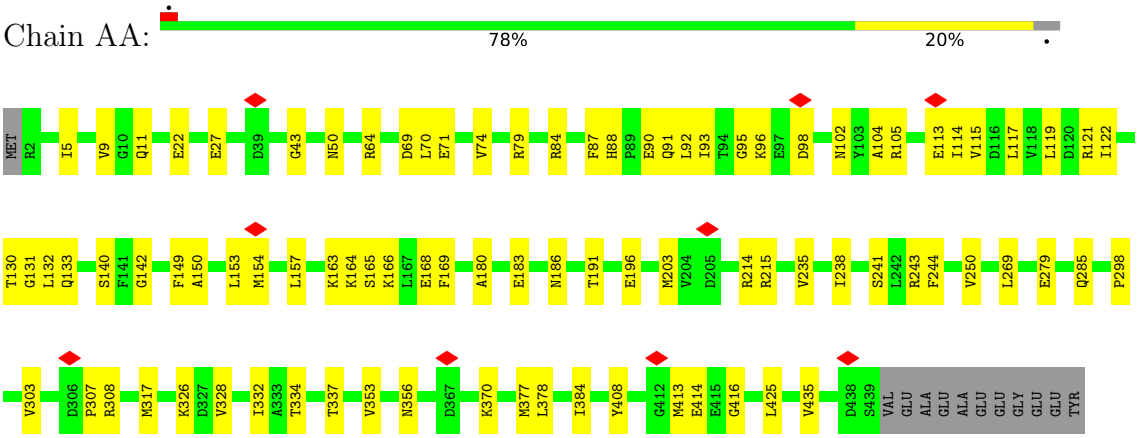
• Molecule 7: Outer dense fiber of sperm tails 3

Chain Az:



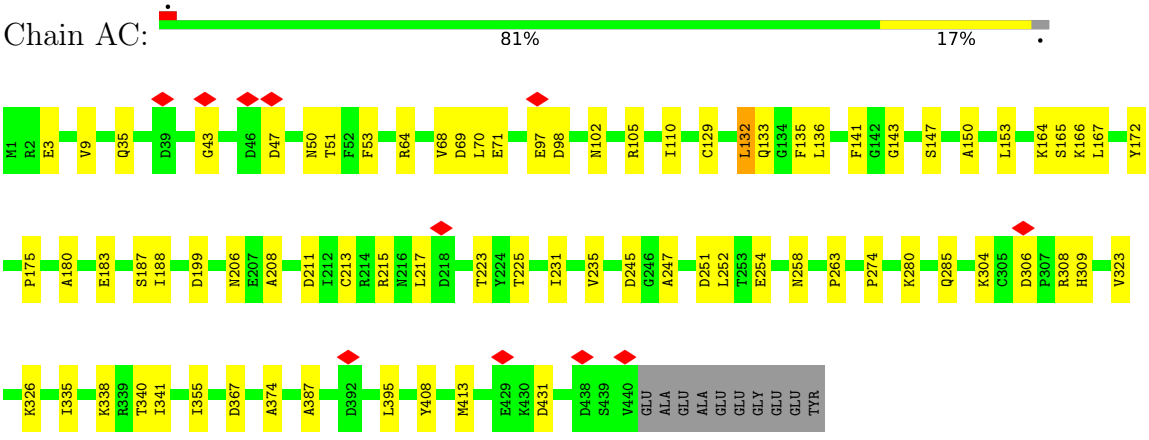
• Molecule 8: Tubulin alpha-3 chain

Chain AA:



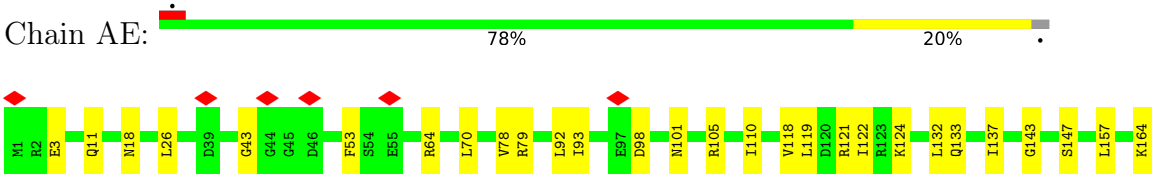
• Molecule 8: Tubulin alpha-3 chain

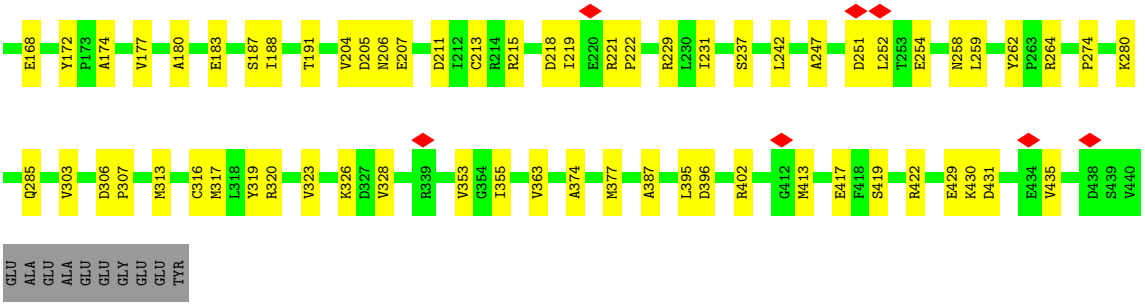
Chain AC:



• Molecule 8: Tubulin alpha-3 chain

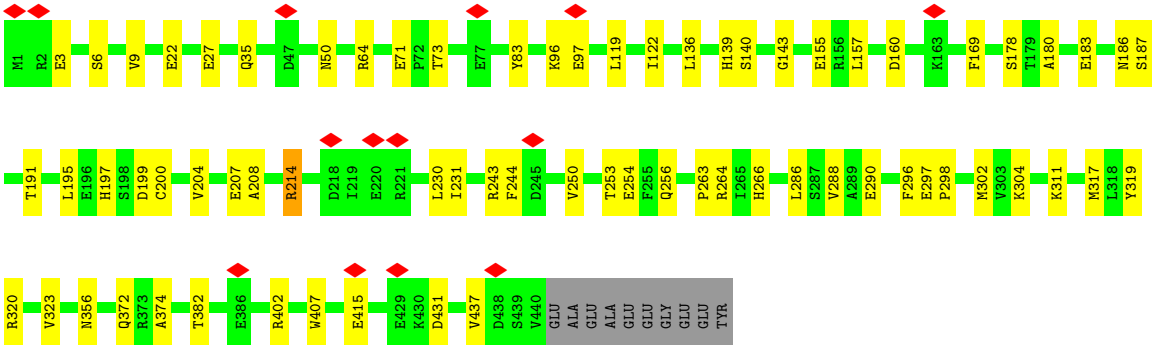
Chain AE:





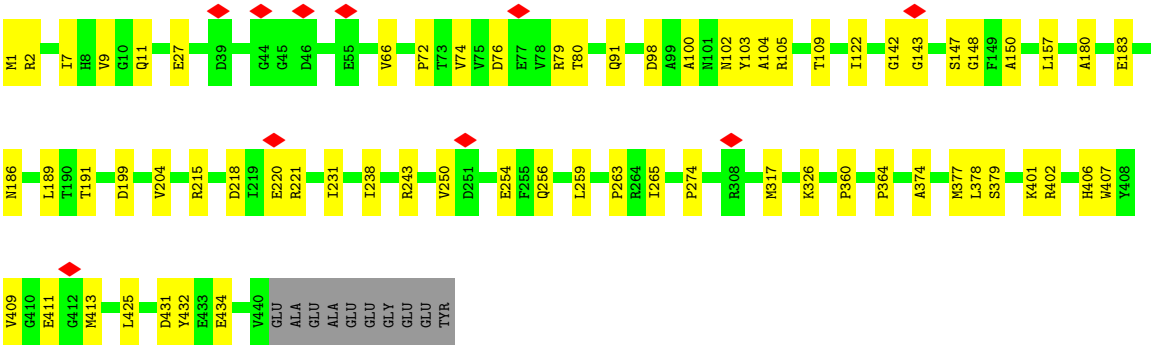
• Molecule 8: Tubulin alpha-3 chain

Chain AG:



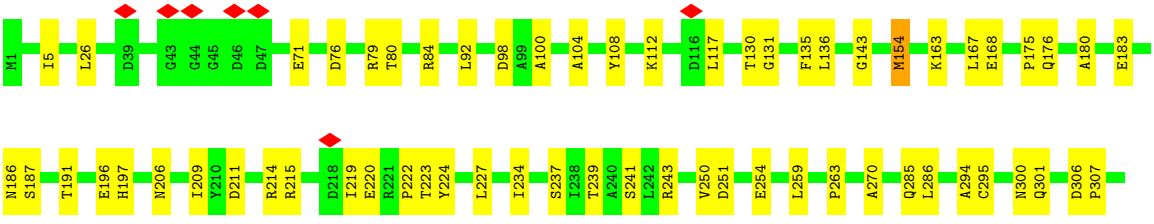
• Molecule 8: Tubulin alpha-3 chain

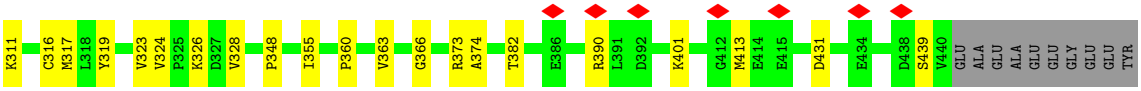
Chain AI:



• Molecule 8: Tubulin alpha-3 chain

Chain AK:



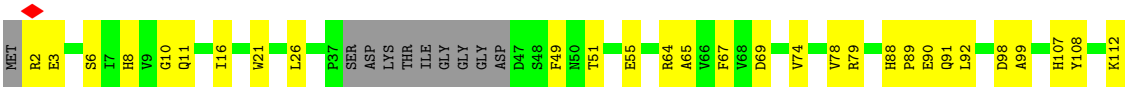


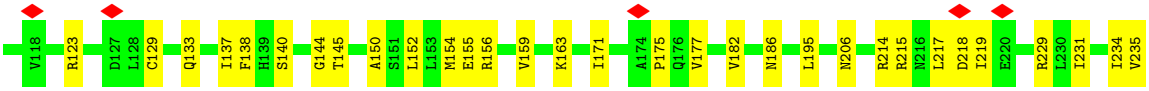
• Molecule 8: Tubulin alpha-3 chain

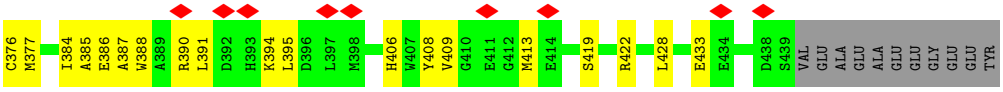
Chain AM:

• Molecule 8: Tubulin alpha-3 chain

Chain BA:

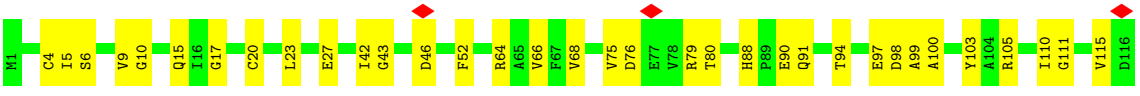


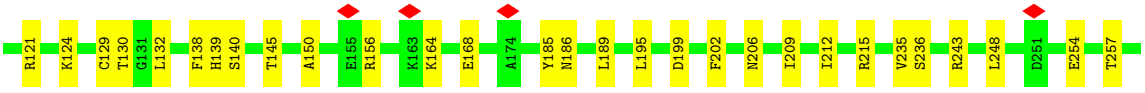


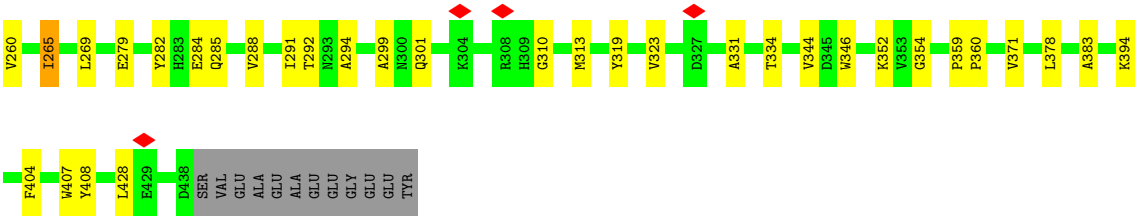


• Molecule 8: Tubulin alpha-3 chain

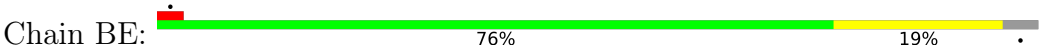
Chain BC:

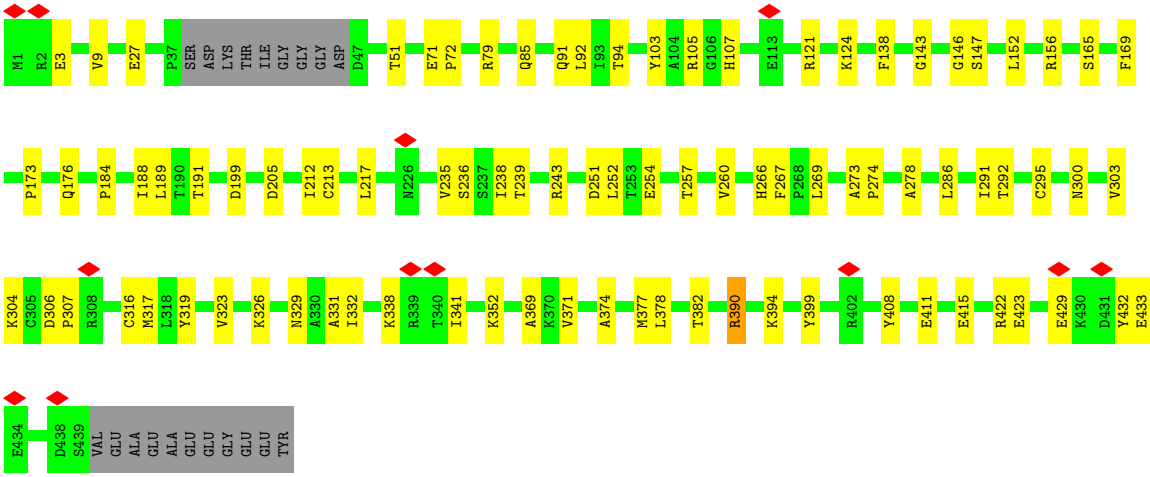




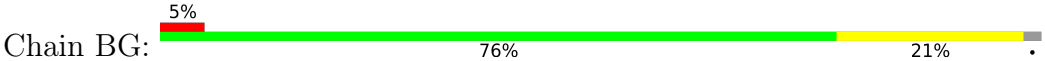


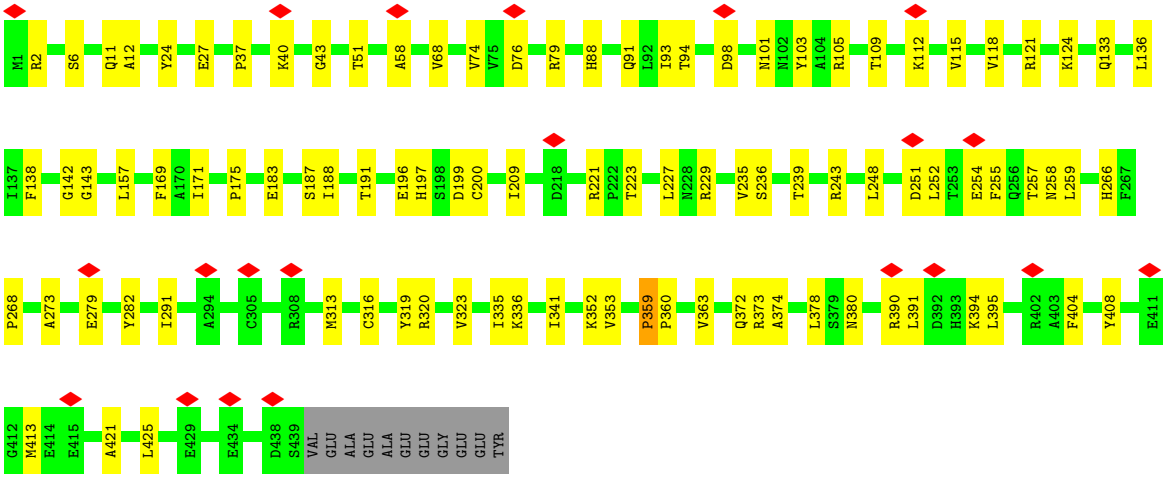
• Molecule 8: Tubulin alpha-3 chain



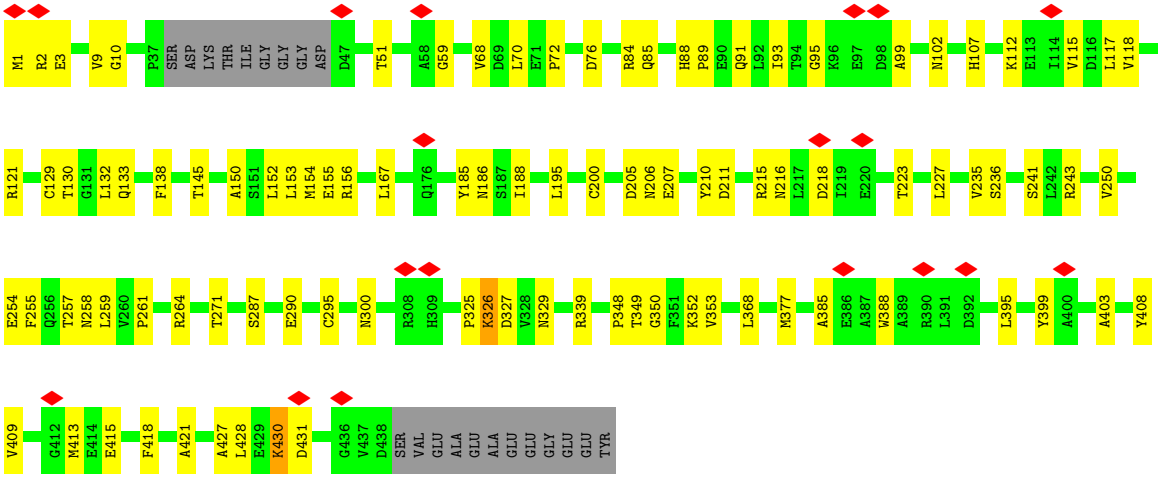


• Molecule 8: Tubulin alpha-3 chain



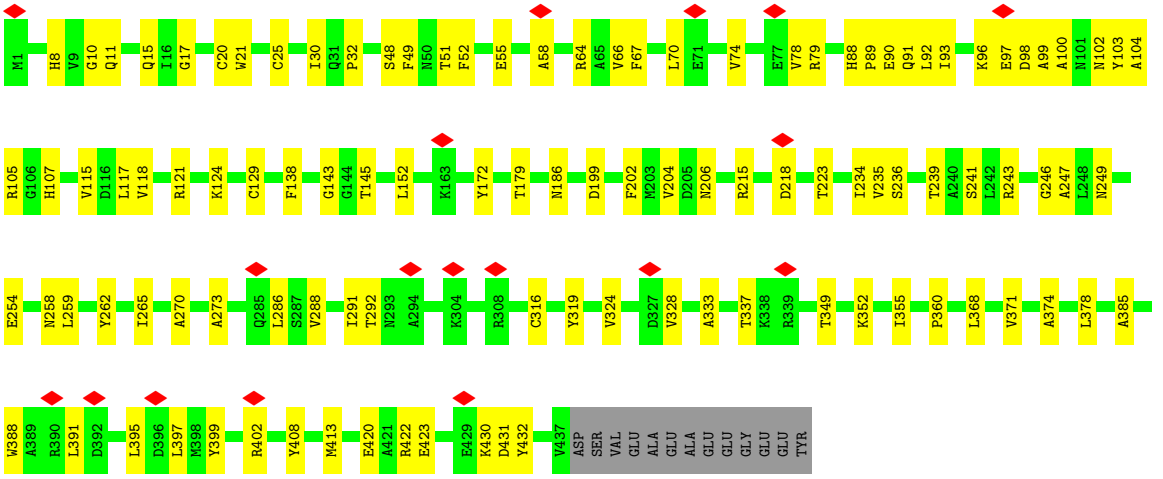


• Molecule 8: Tubulin alpha-3 chain



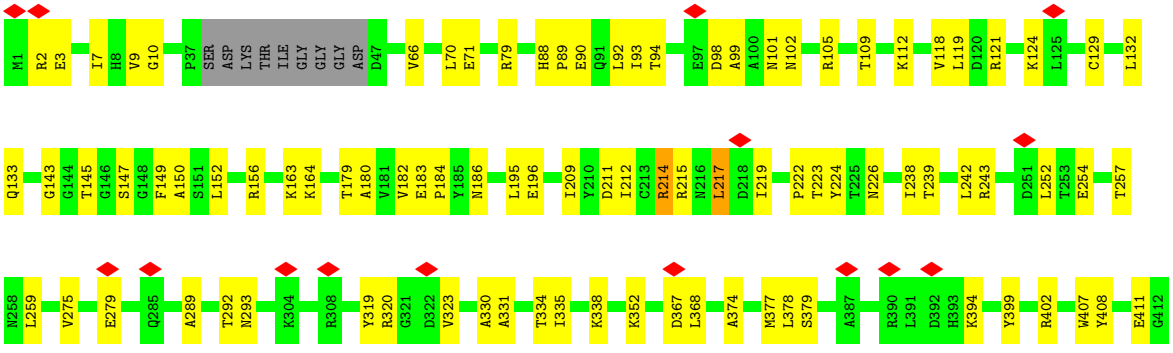
• Molecule 8: Tubulin alpha-3 chain

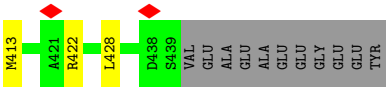
Chain BK:



• Molecule 8: Tubulin alpha-3 chain

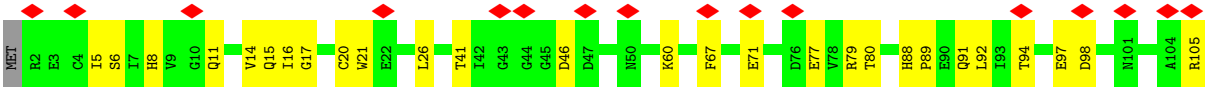
Chain BM:

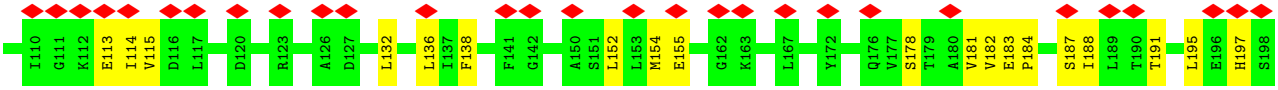


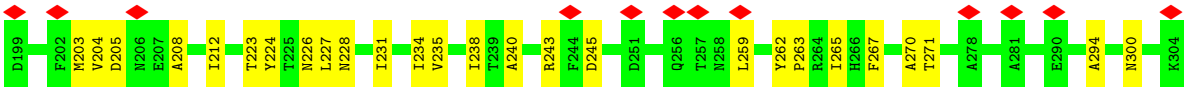


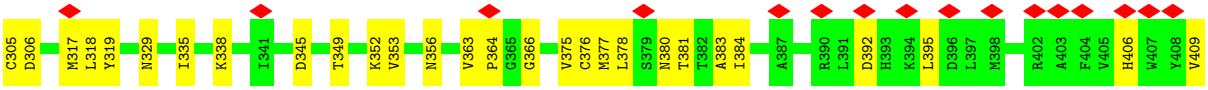
• Molecule 8: Tubulin alpha-3 chain

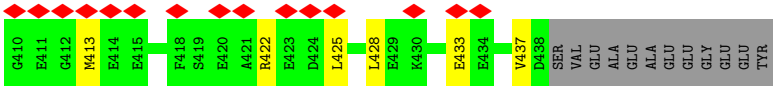
Chain CA:





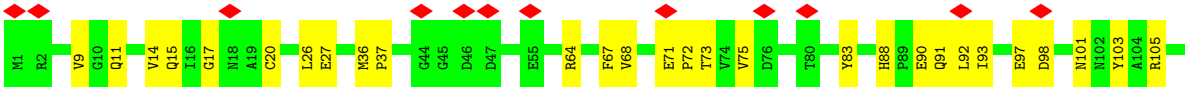


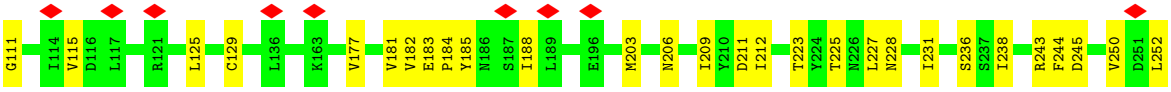


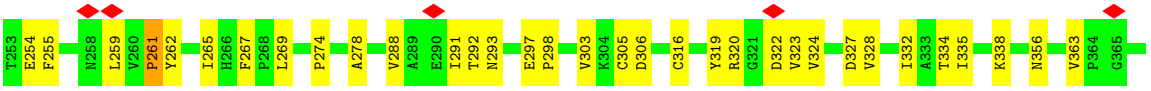


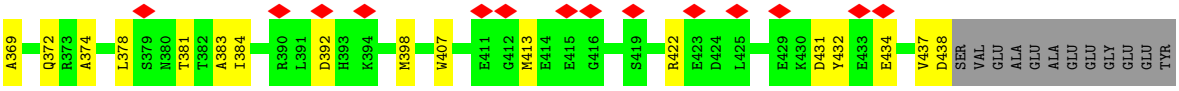
• Molecule 8: Tubulin alpha-3 chain

Chain CC:



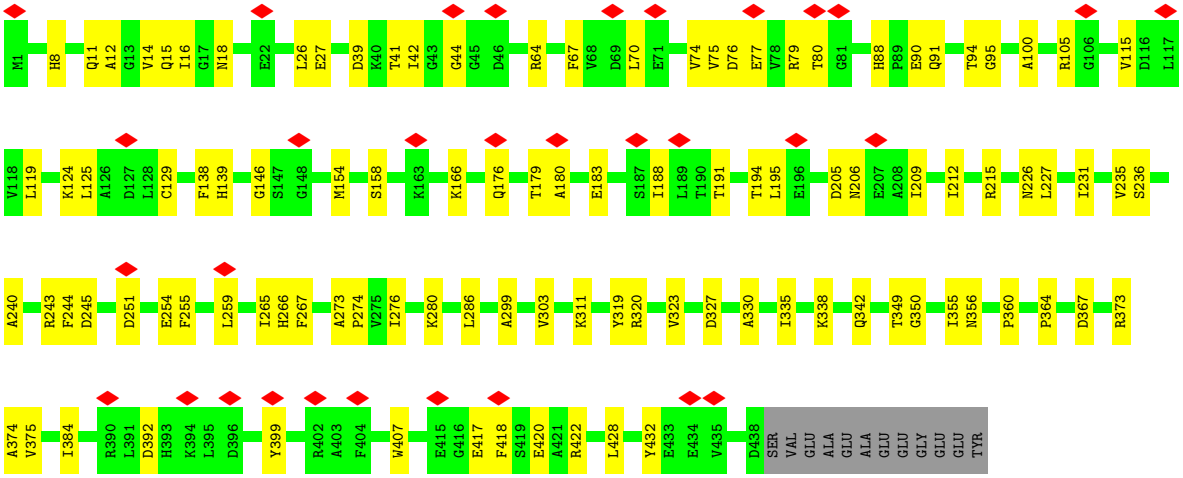




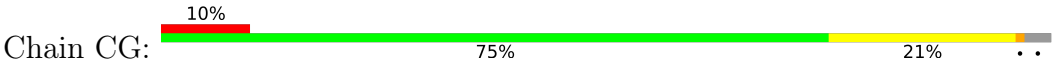


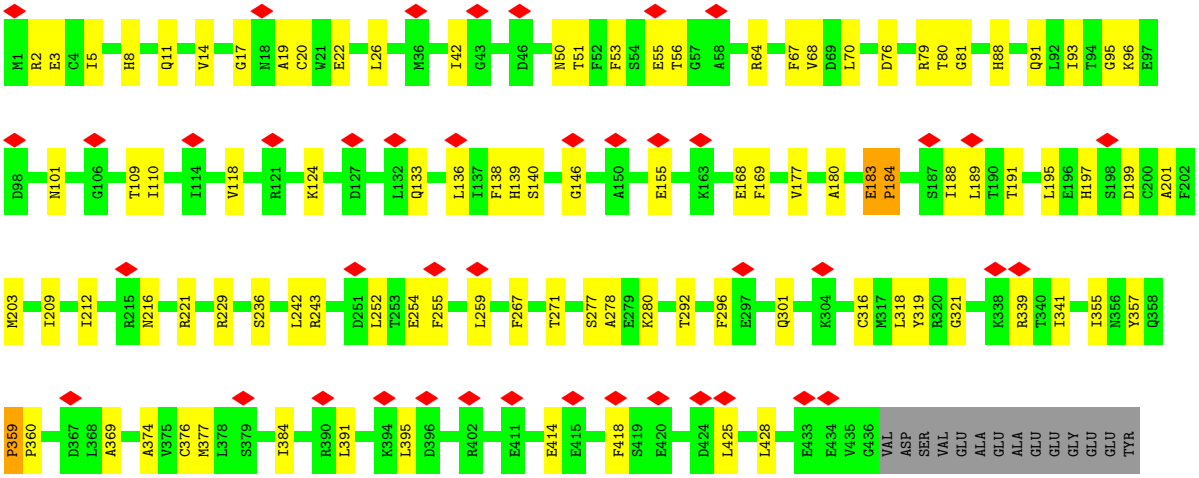
• Molecule 8: Tubulin alpha-3 chain

Chain CE:

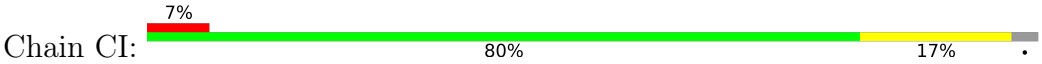


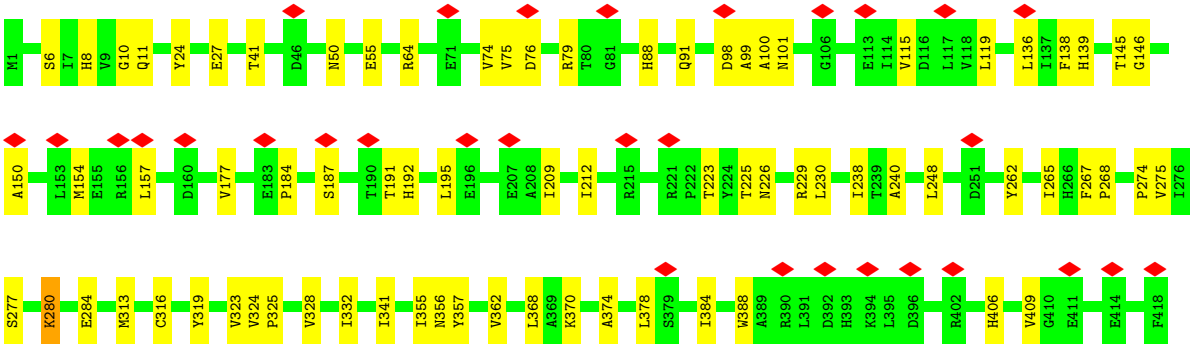
• Molecule 8: Tubulin alpha-3 chain

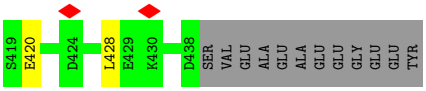




• Molecule 8: Tubulin alpha-3 chain

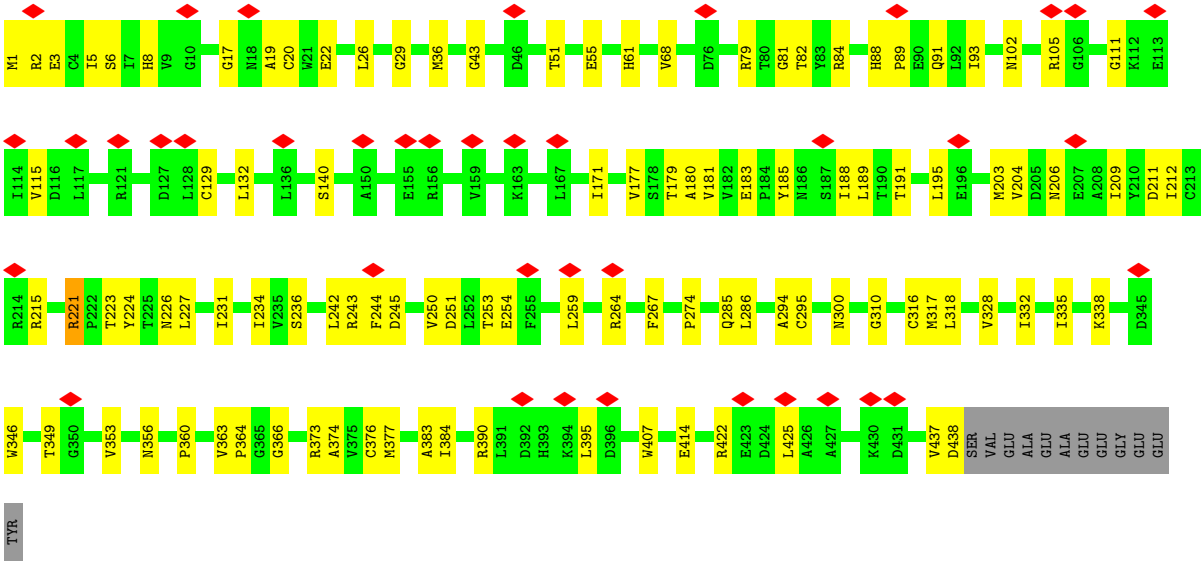






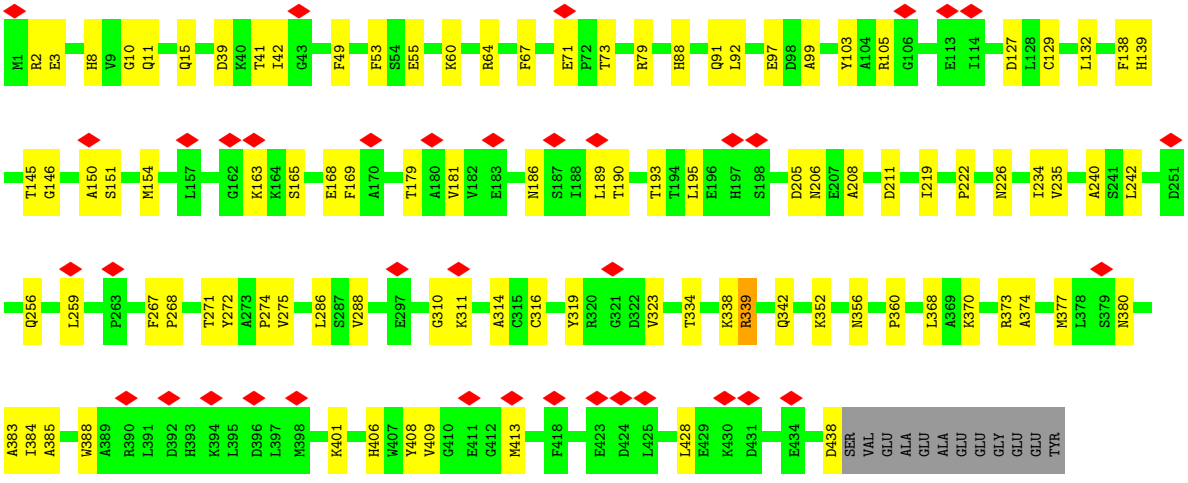
• Molecule 8: Tubulin alpha-3 chain

Chain CK:



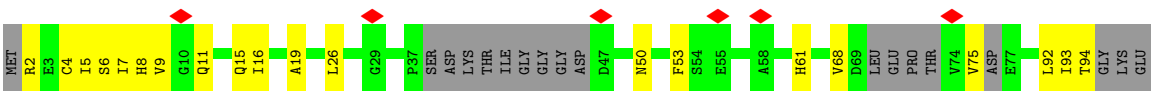
• Molecule 8: Tubulin alpha-3 chain

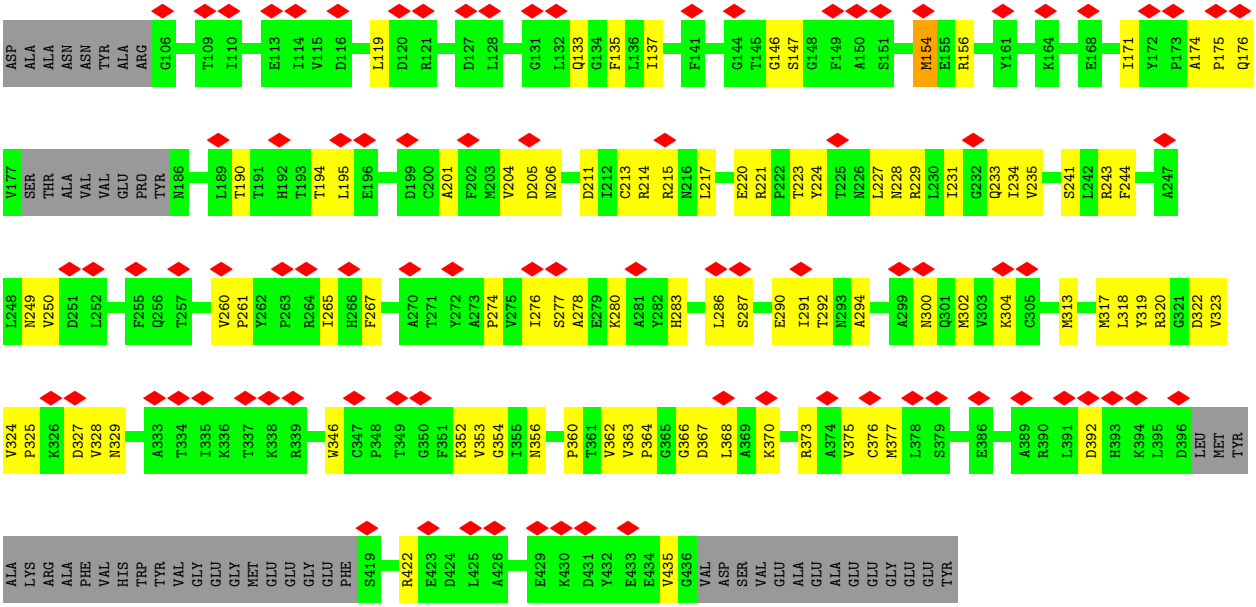
Chain CM:



• Molecule 8: Tubulin alpha-3 chain

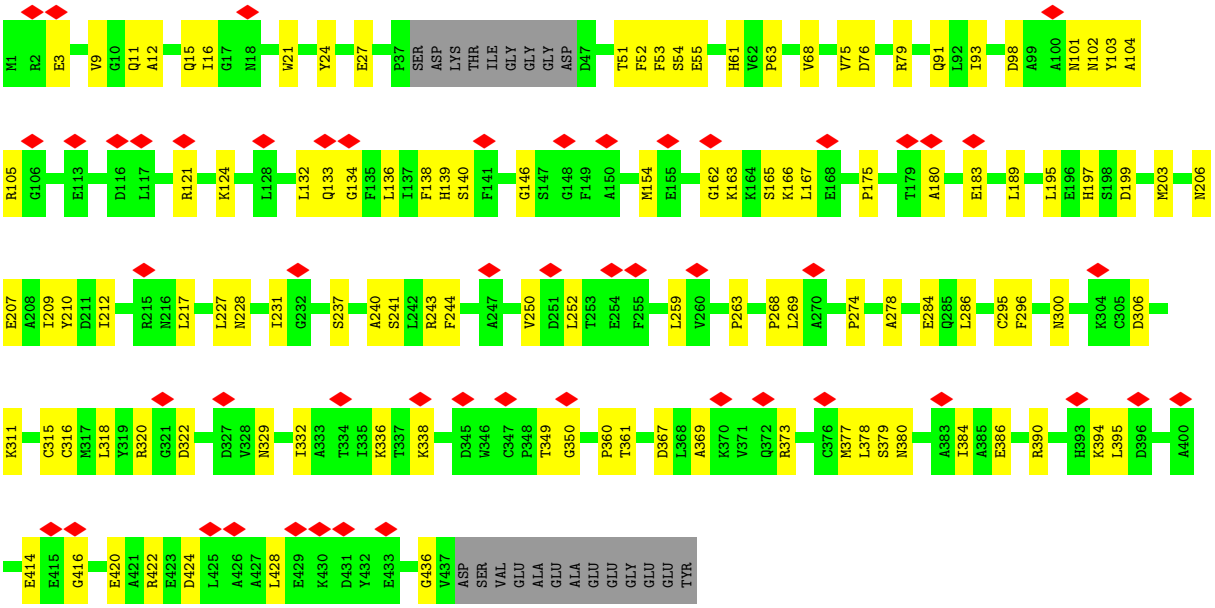
Chain DA:





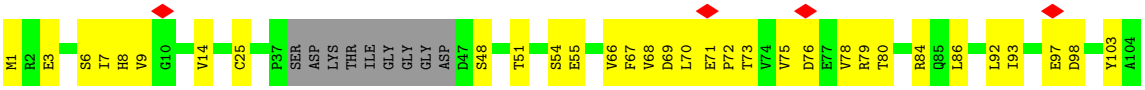
• Molecule 8: Tubulin alpha-3 chain

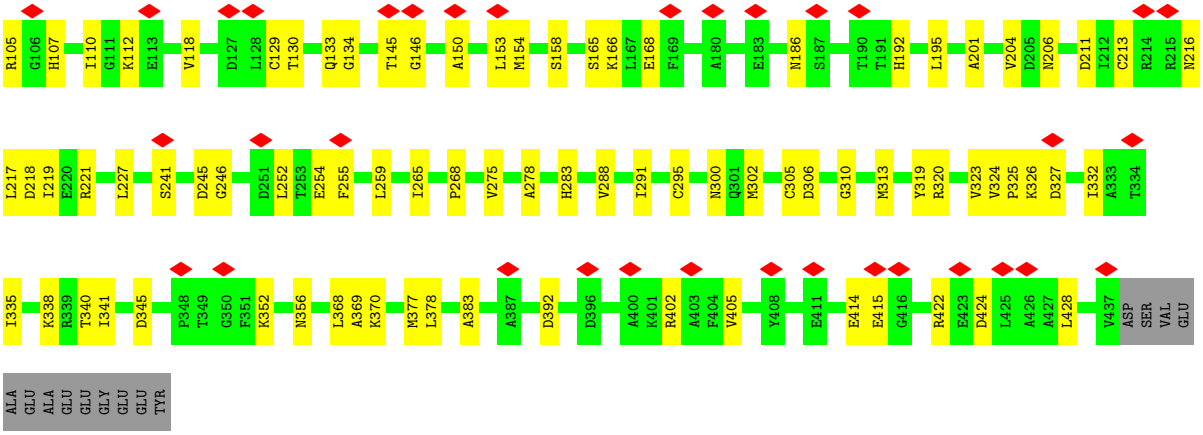
Chain DC:



• Molecule 8: Tubulin alpha-3 chain

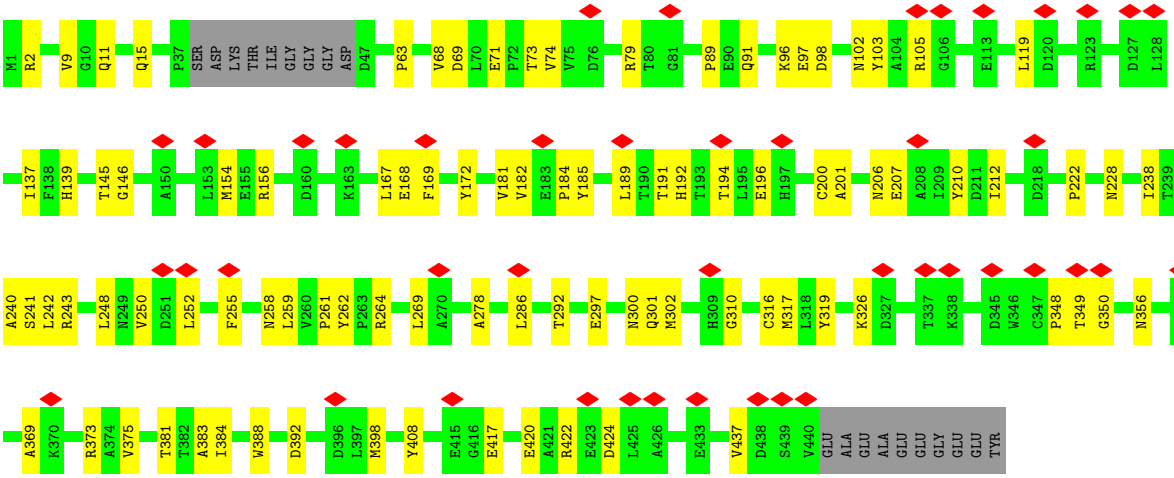
Chain DE:





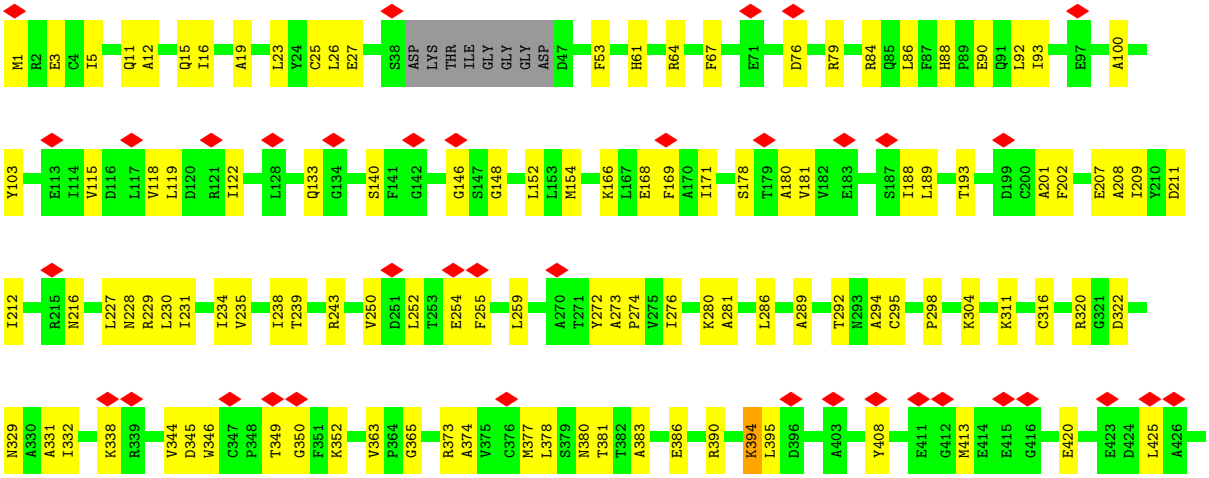
• Molecule 8: Tubulin alpha-3 chain

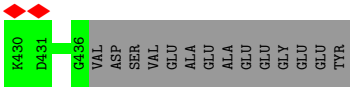
Chain DG:



• Molecule 8: Tubulin alpha-3 chain

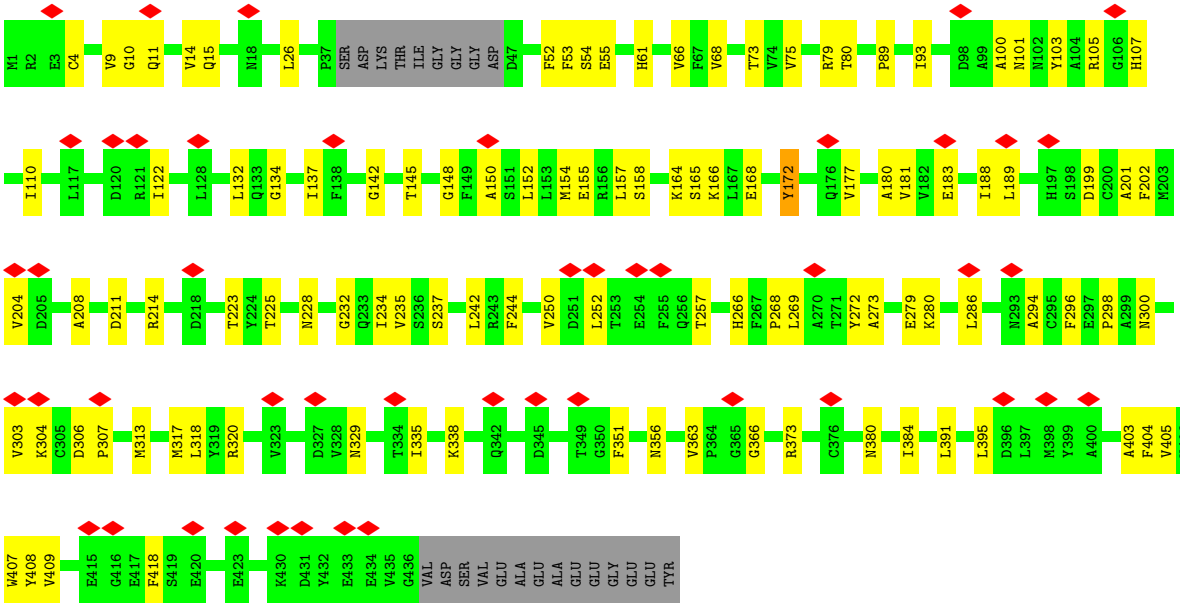
Chain DI:





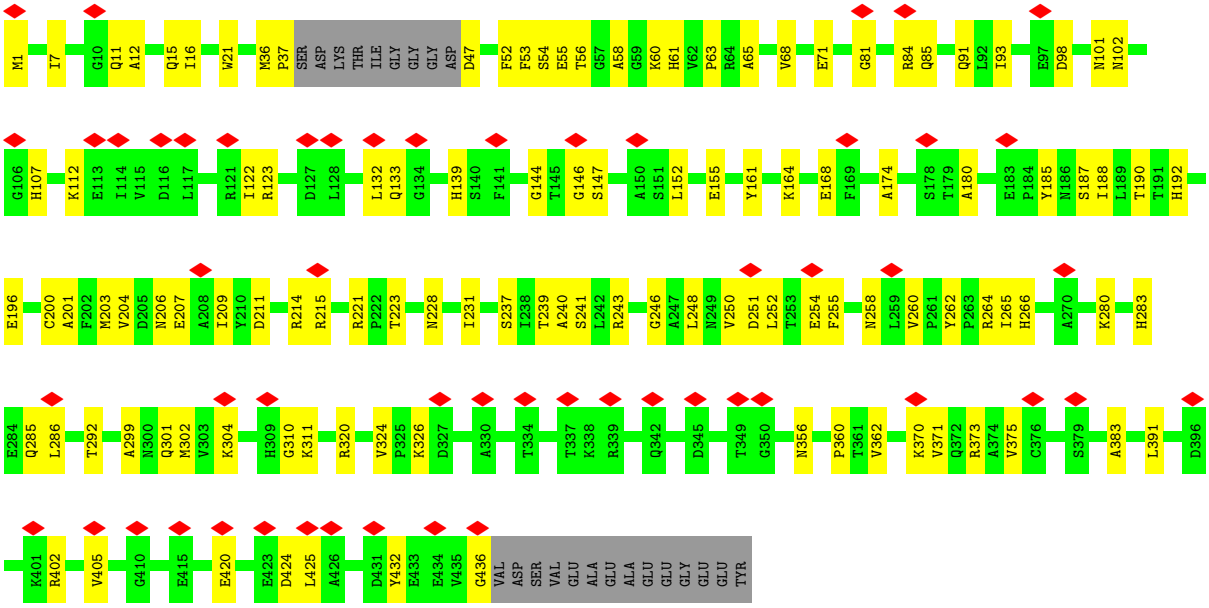
• Molecule 8: Tubulin alpha-3 chain

Chain DK:



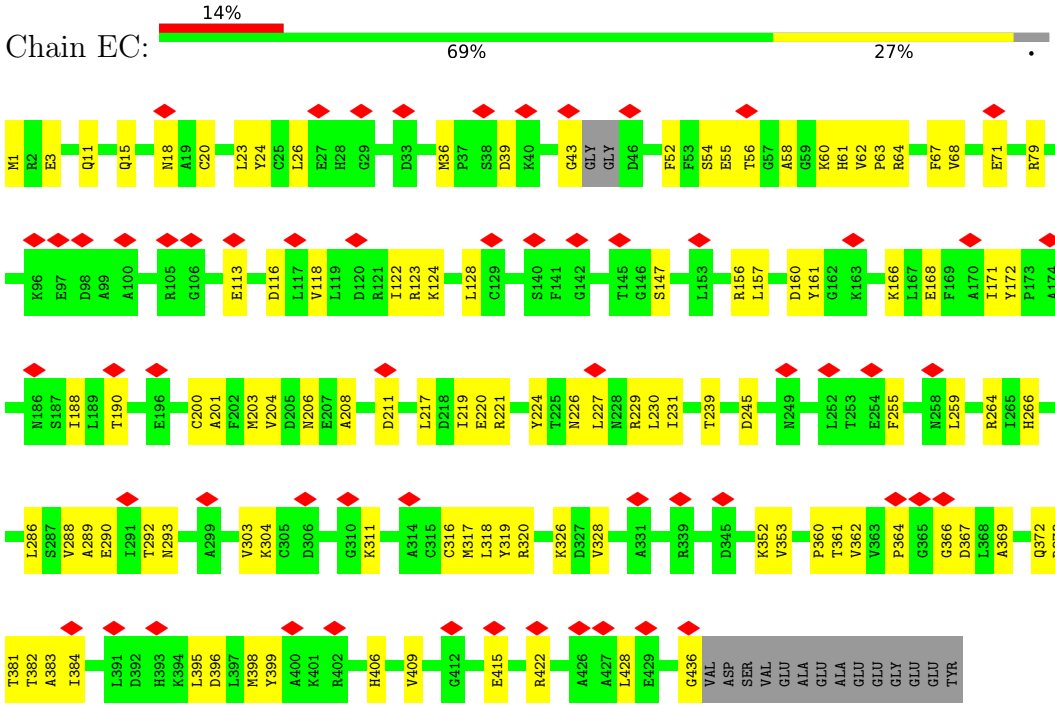
• Molecule 8: Tubulin alpha-3 chain

Chain DM:



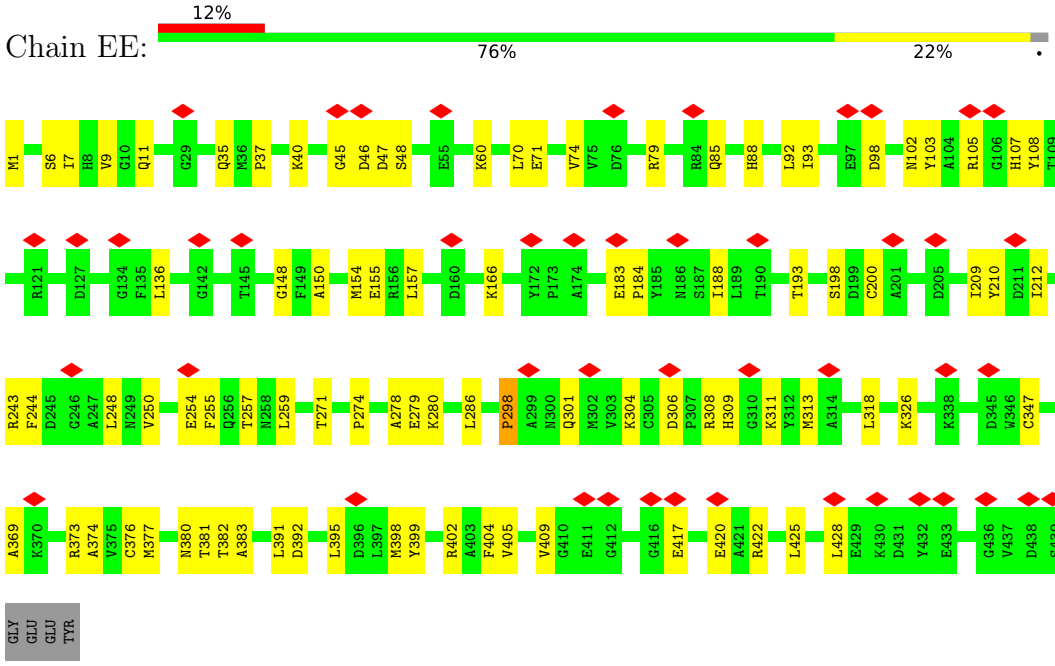
• Molecule 8: Tubulin alpha-3 chain

Chain EC:



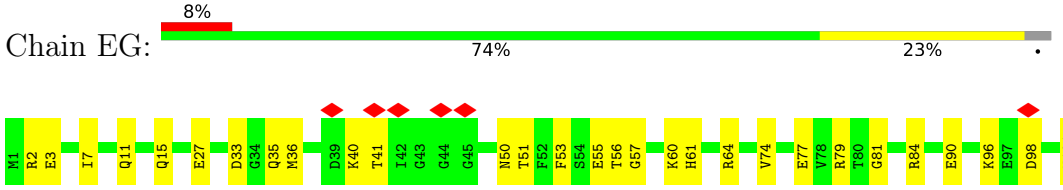
• Molecule 8: Tubulin alpha-3 chain

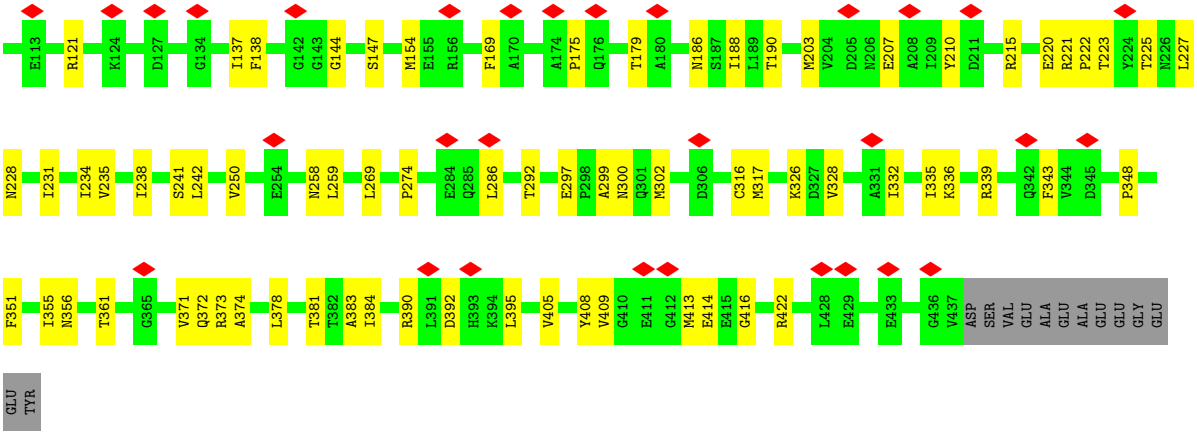
Chain EE:



• Molecule 8: Tubulin alpha-3 chain

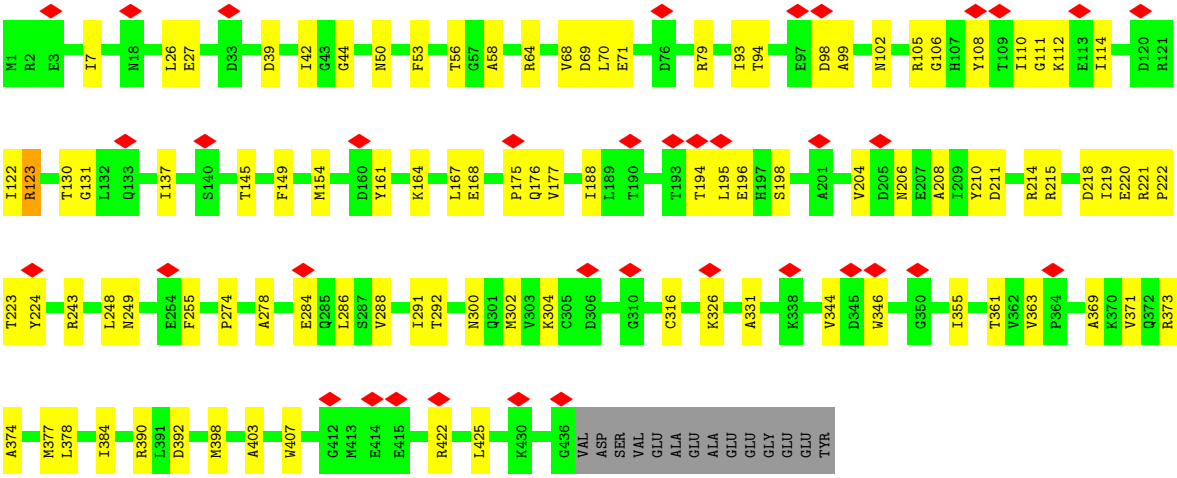
Chain EG:





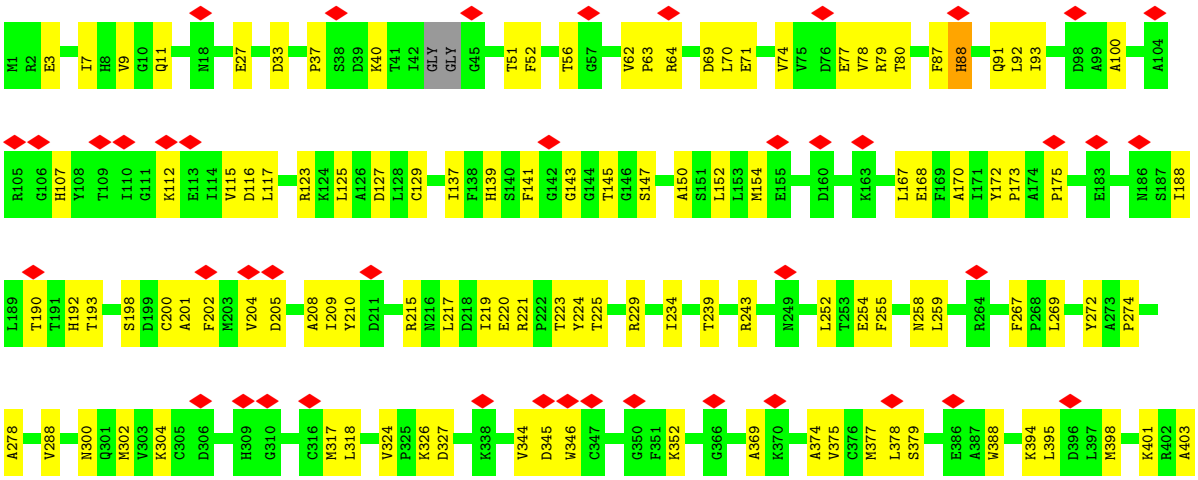
• Molecule 8: Tubulin alpha-3 chain

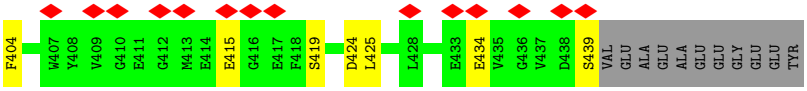
Chain EI:



• Molecule 8: Tubulin alpha-3 chain

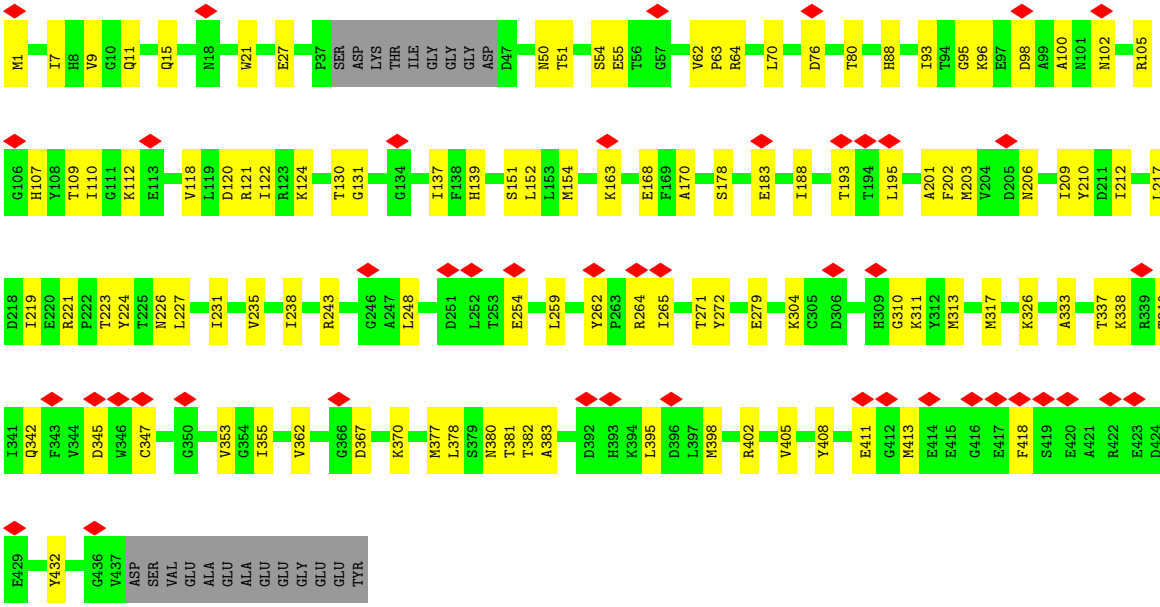
Chain EK:





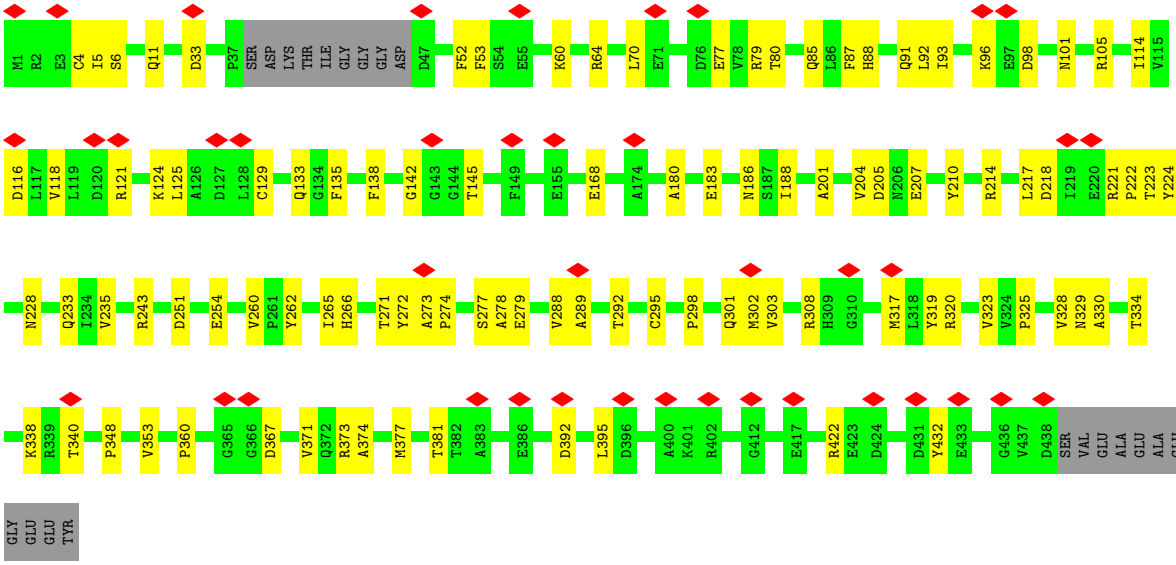
• Molecule 8: Tubulin alpha-3 chain

Chain EM:



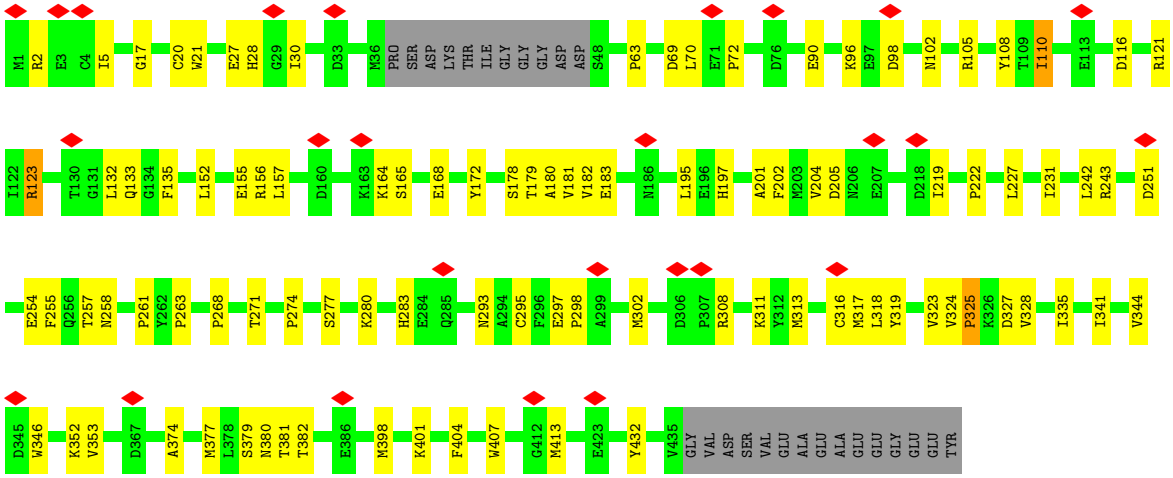
• Molecule 8: Tubulin alpha-3 chain

Chain FC:



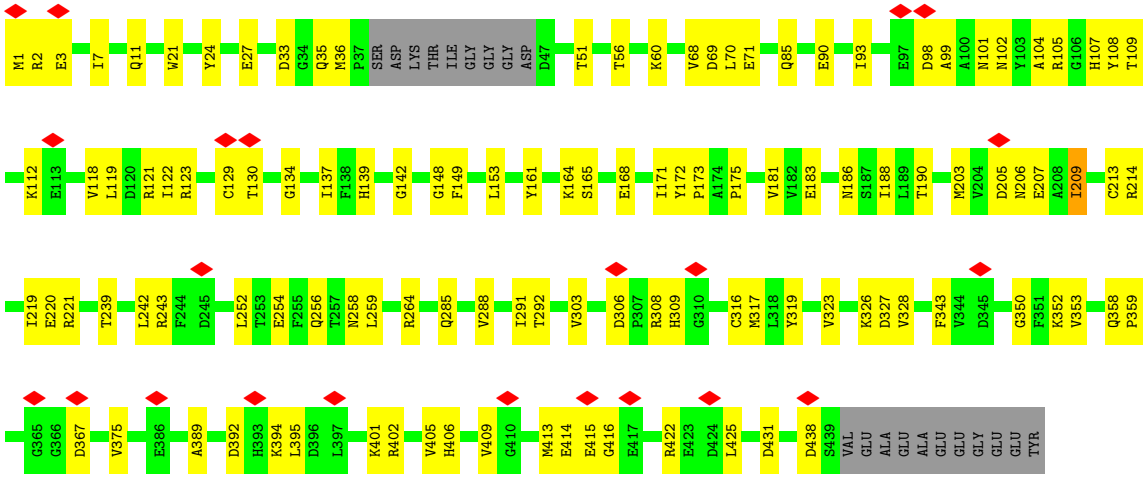
• Molecule 8: Tubulin alpha-3 chain

Chain FE:



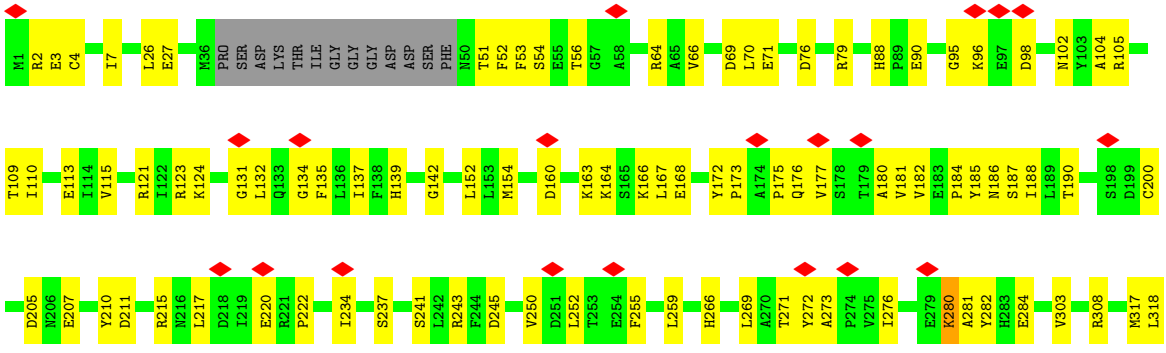
• Molecule 8: Tubulin alpha-3 chain

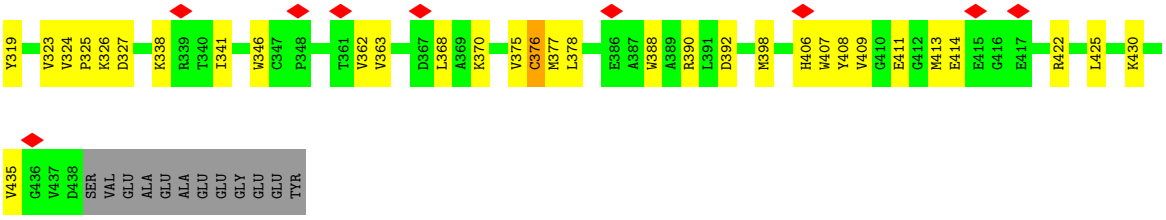
Chain FG:



• Molecule 8: Tubulin alpha-3 chain

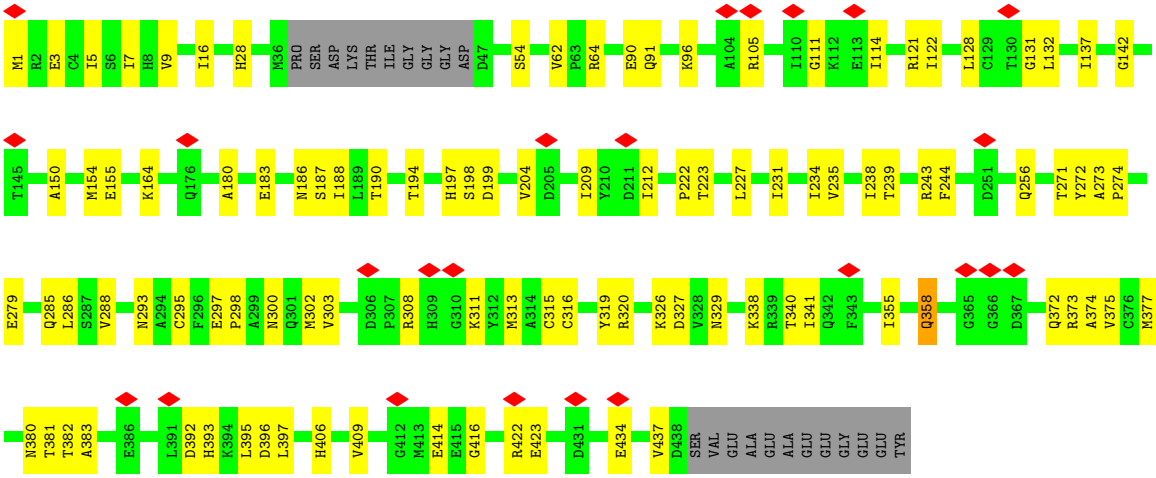
Chain FI:





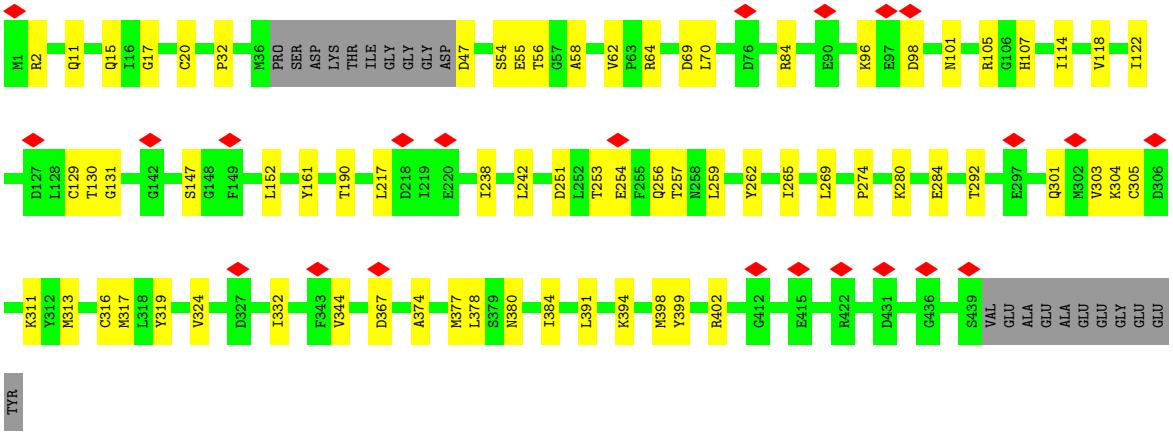
• Molecule 8: Tubulin alpha-3 chain

Chain FK:



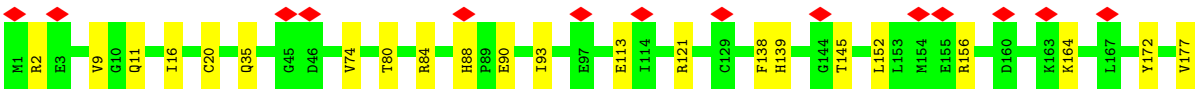
• Molecule 8: Tubulin alpha-3 chain

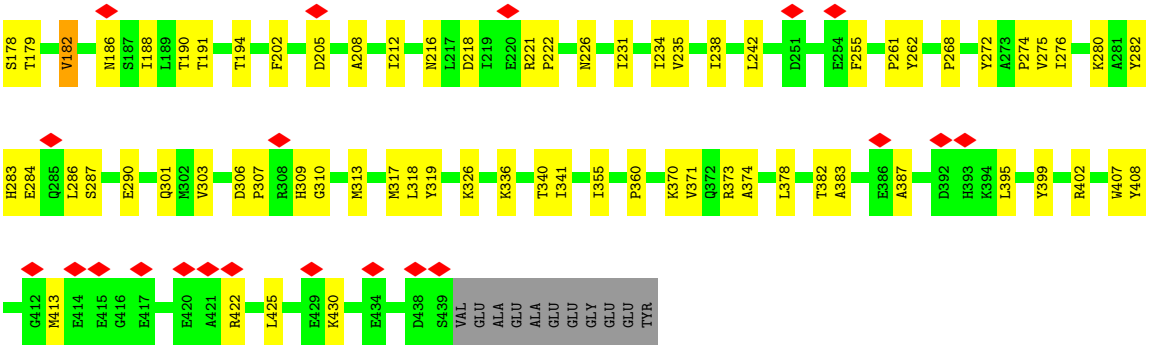
Chain FM:



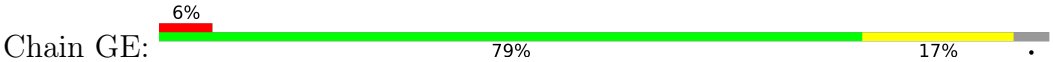
• Molecule 8: Tubulin alpha-3 chain

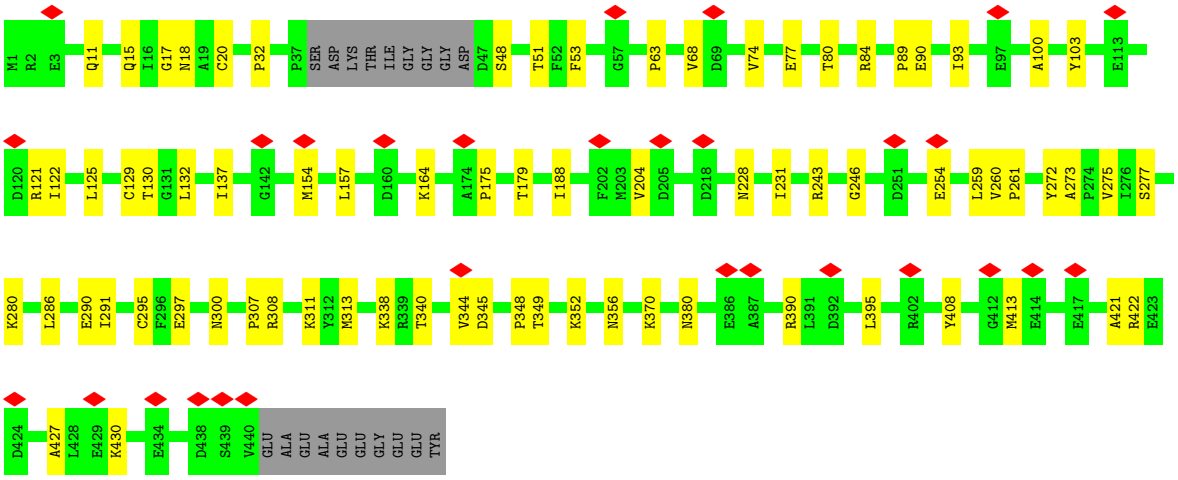
Chain GC:



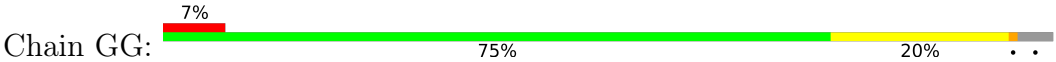


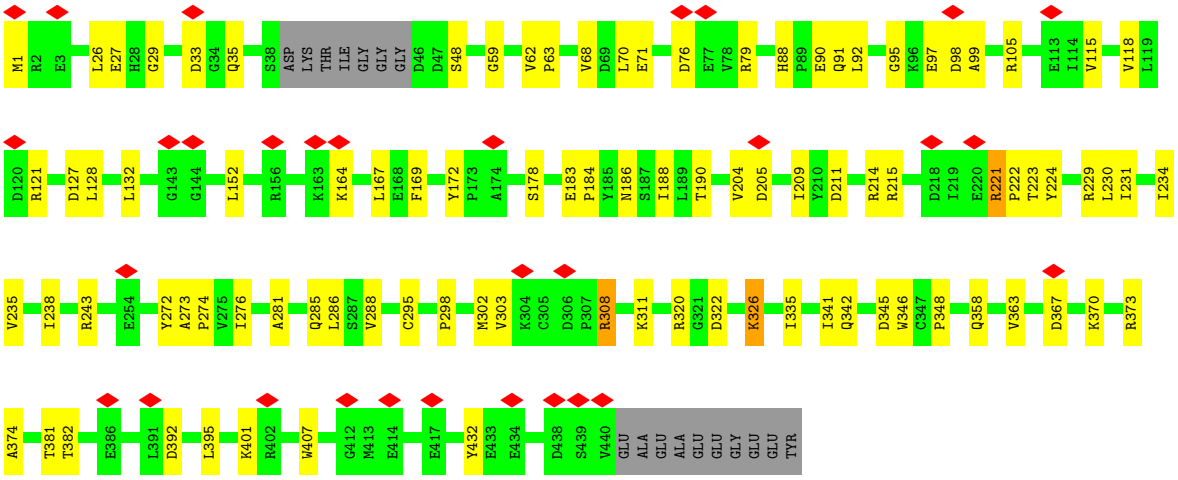
• Molecule 8: Tubulin alpha-3 chain





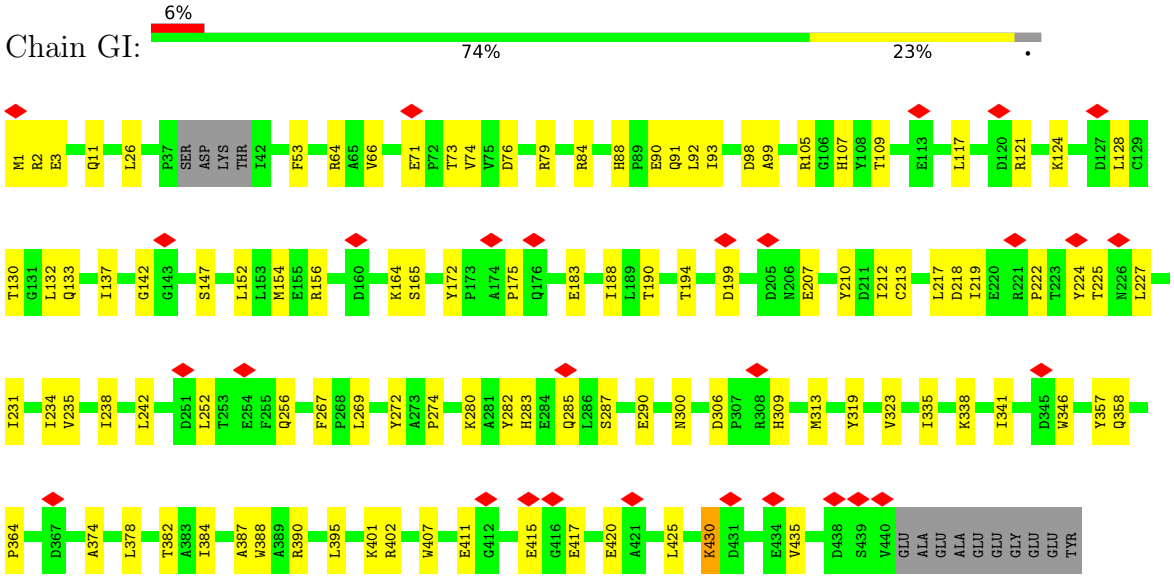
• Molecule 8: Tubulin alpha-3 chain





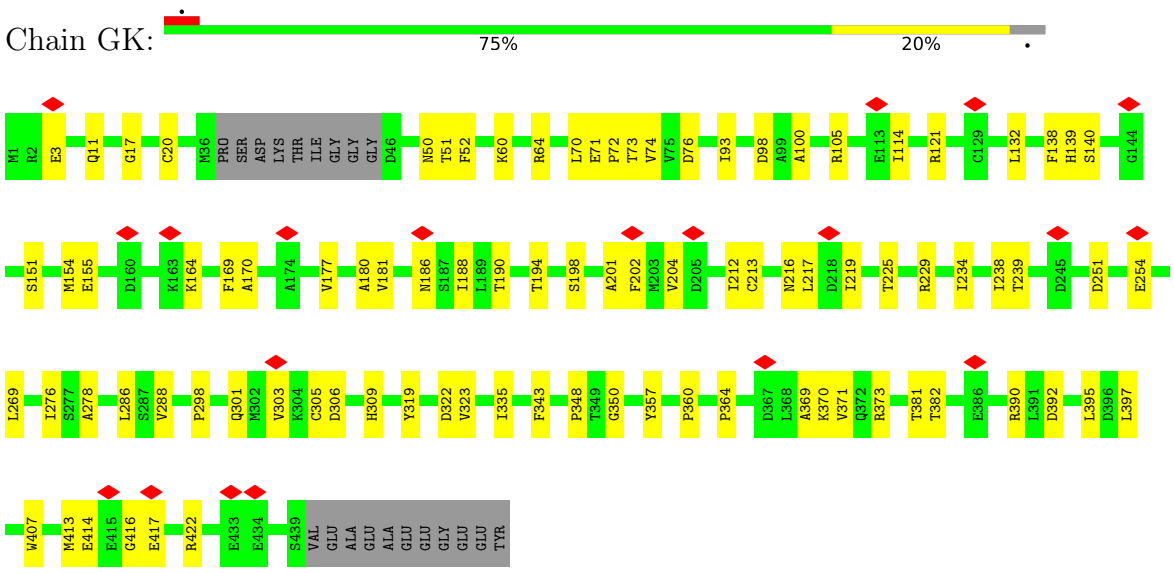
• Molecule 8: Tubulin alpha-3 chain

Chain GI:



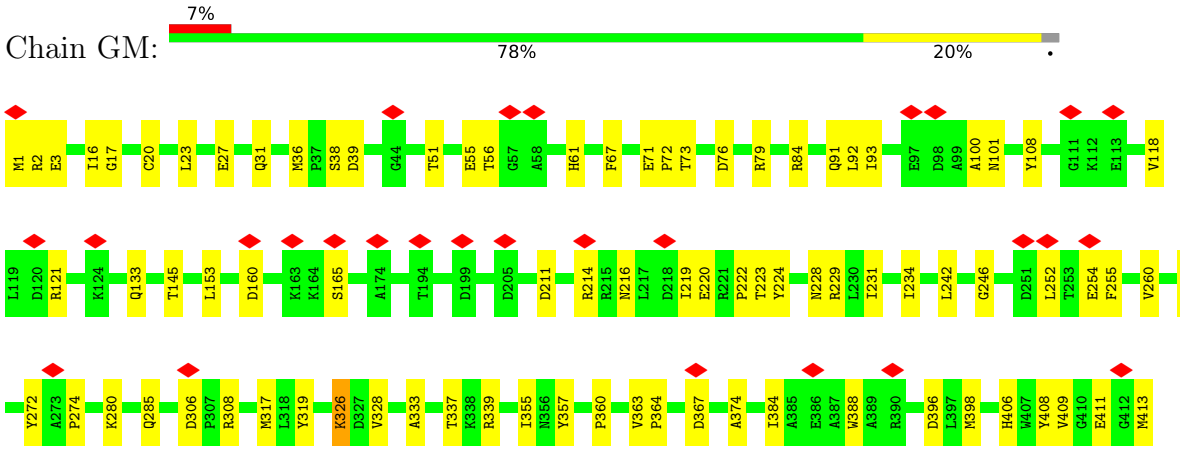
• Molecule 8: Tubulin alpha-3 chain

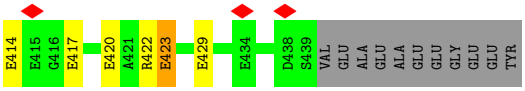
Chain GK:



• Molecule 8: Tubulin alpha-3 chain

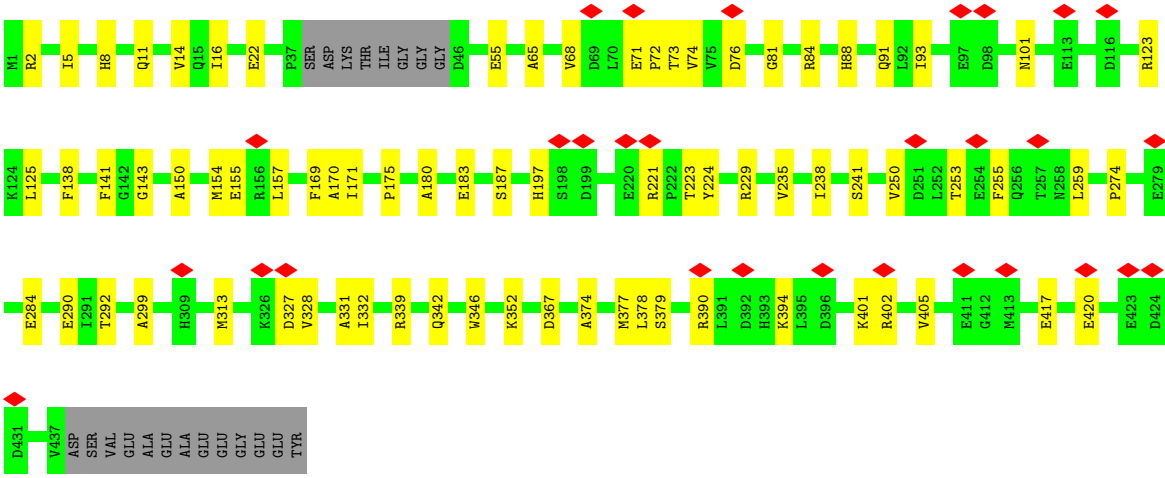
Chain GM:





• Molecule 8: Tubulin alpha-3 chain

Chain HC:



• Molecule 8: Tubulin alpha-3 chain

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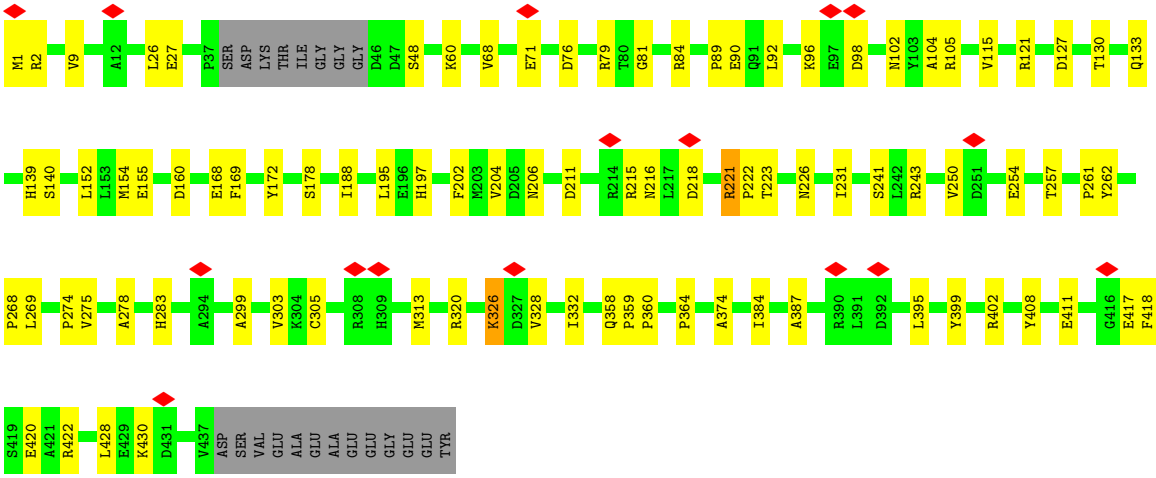
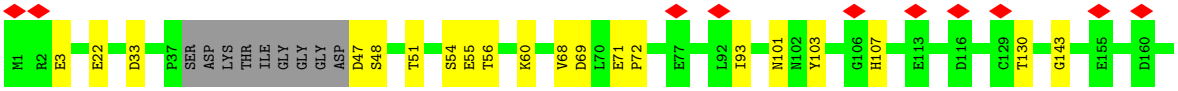
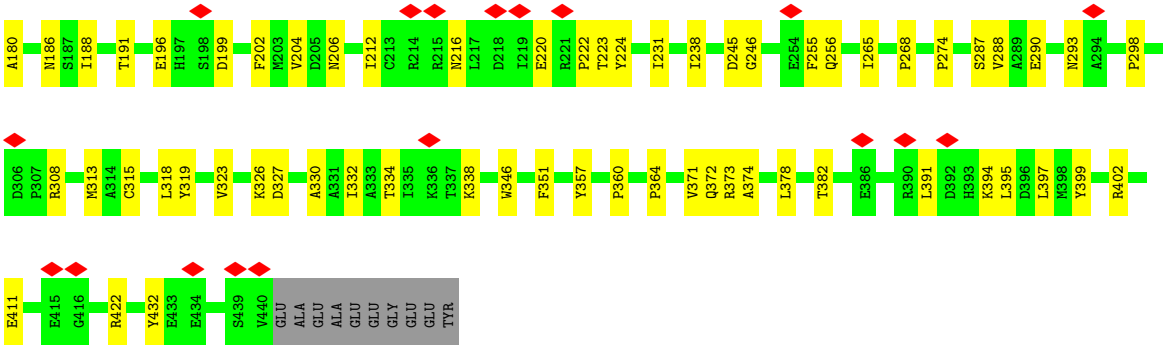


• Molecule 8: Tubulin alpha-3 chain

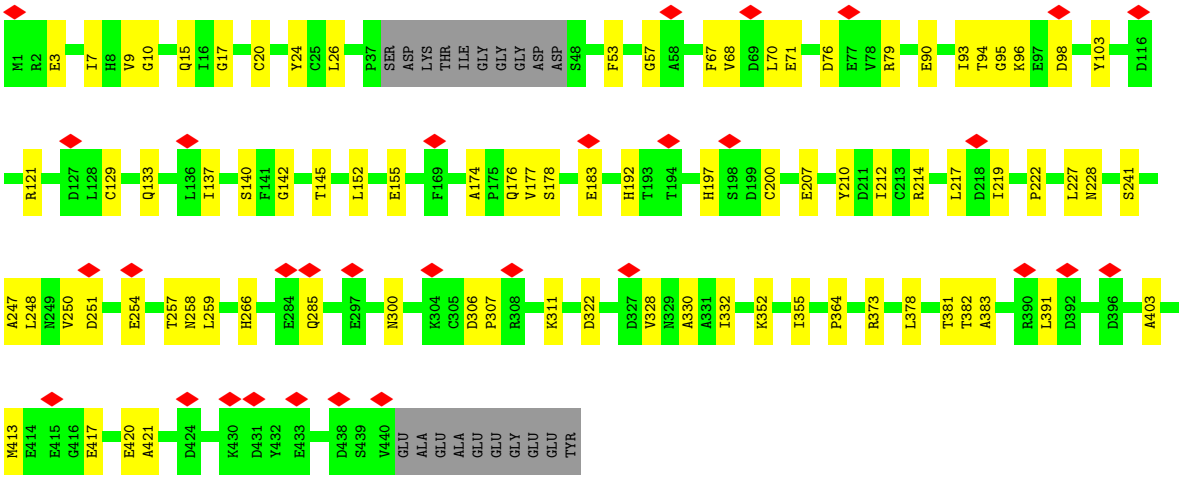
Chain HG:





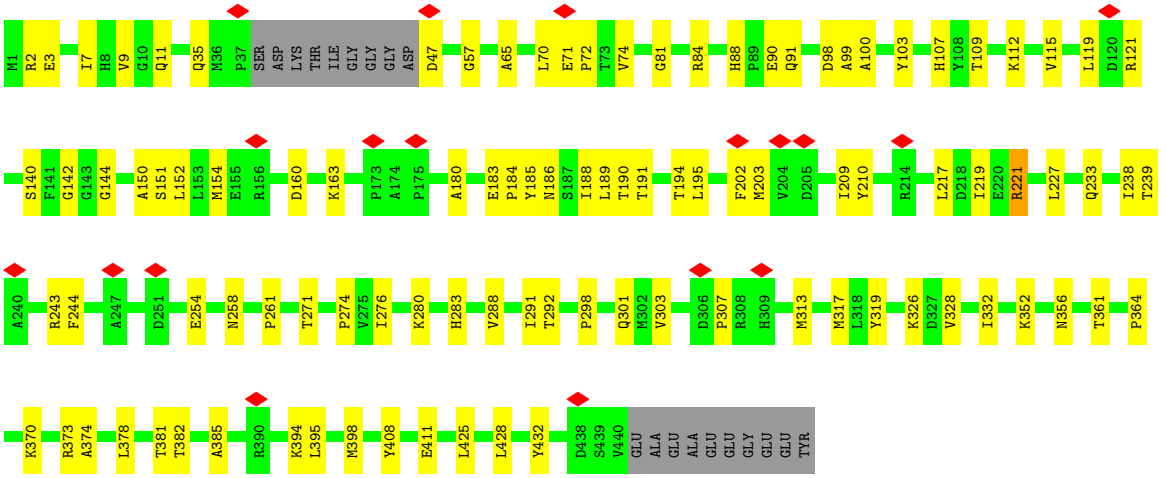
• Molecule 8: Tubulin alpha-3 chain

Chain HI:



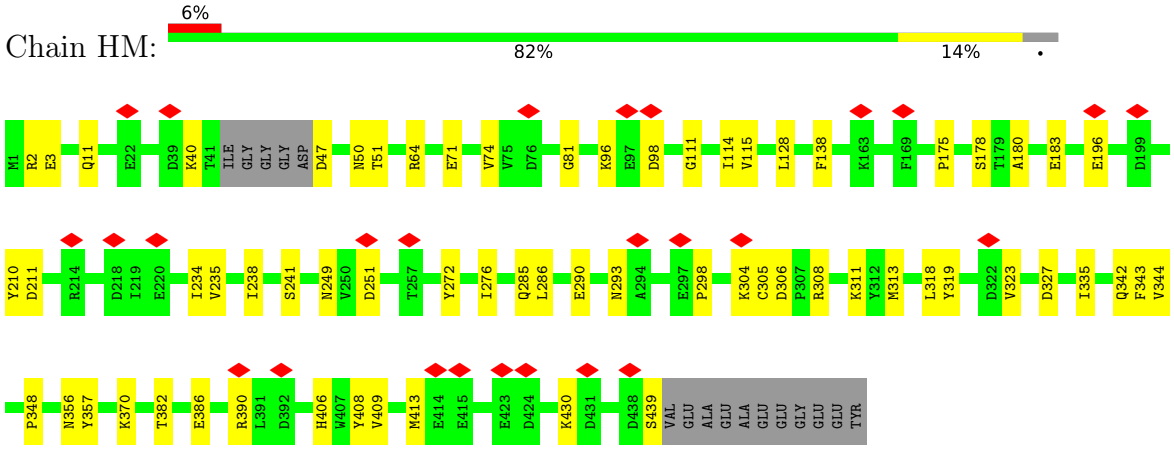
• Molecule 8: Tubulin alpha-3 chain

Chain HK:



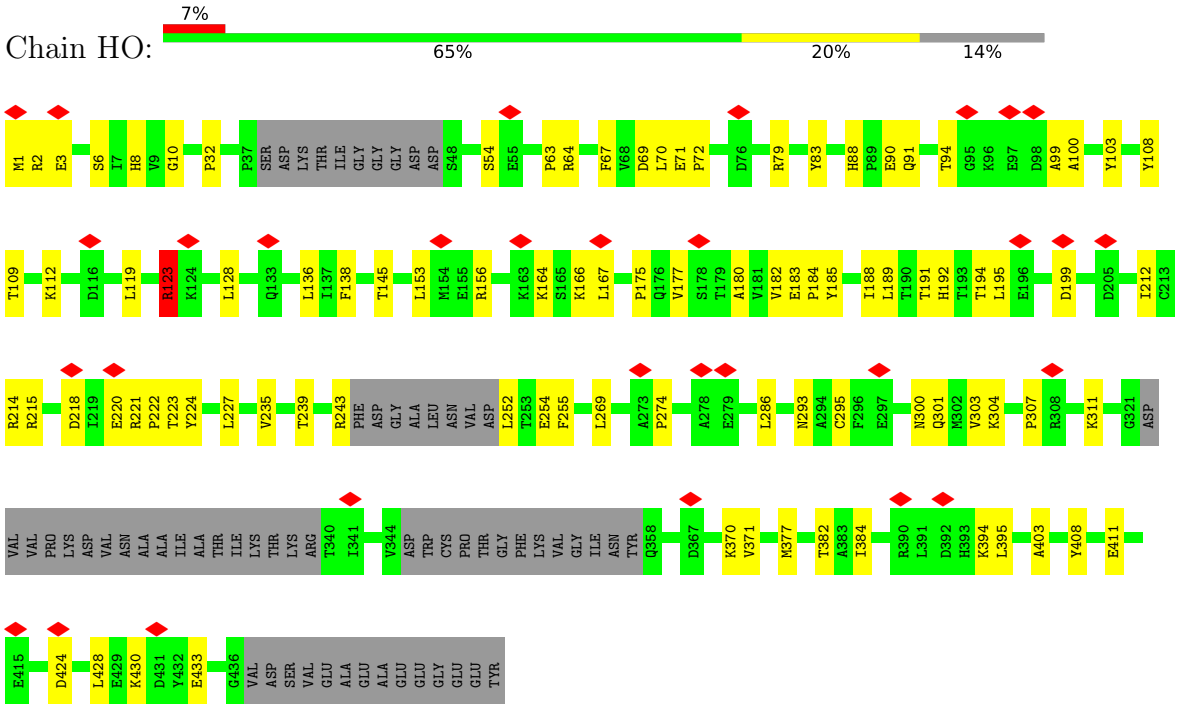
• Molecule 8: Tubulin alpha-3 chain

Chain HM:



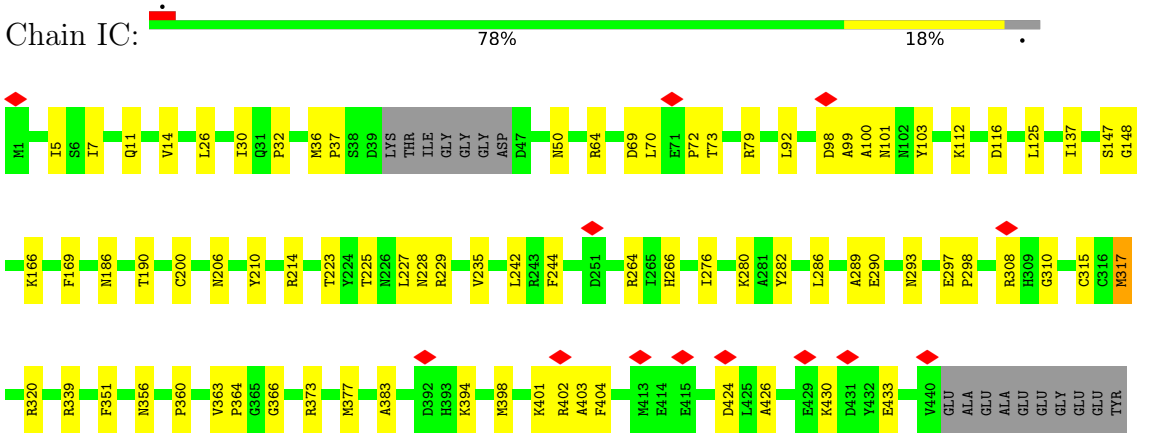
• Molecule 8: Tubulin alpha-3 chain

Chain HO:



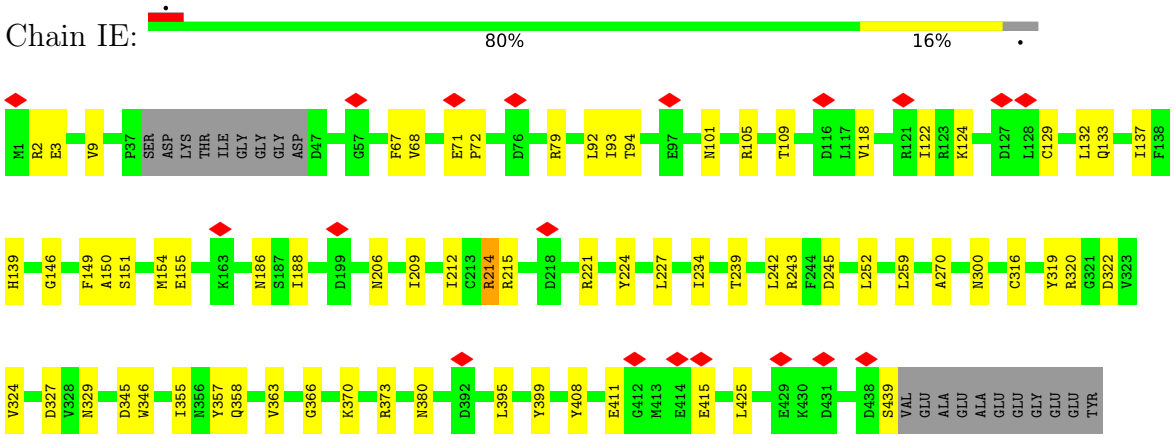
• Molecule 8: Tubulin alpha-3 chain

Chain IC:



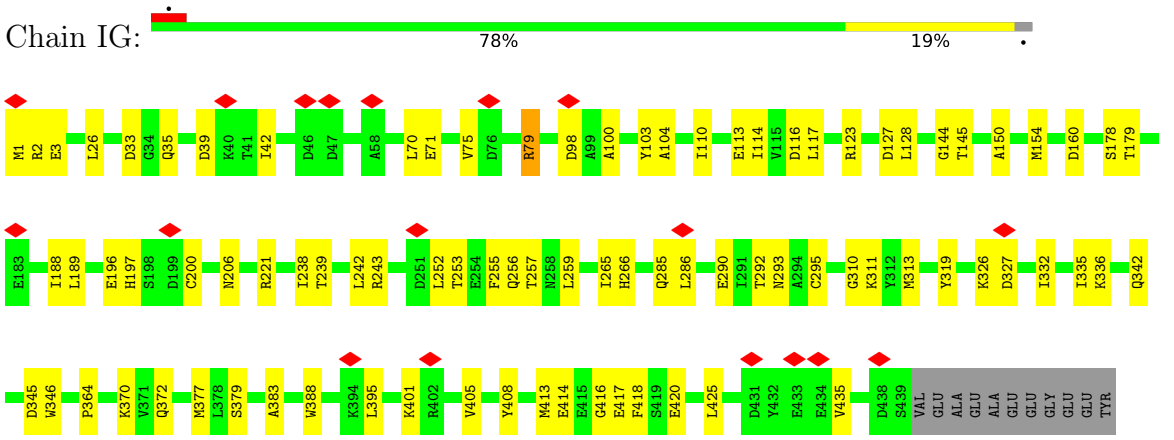
• Molecule 8: Tubulin alpha-3 chain

Chain IE:



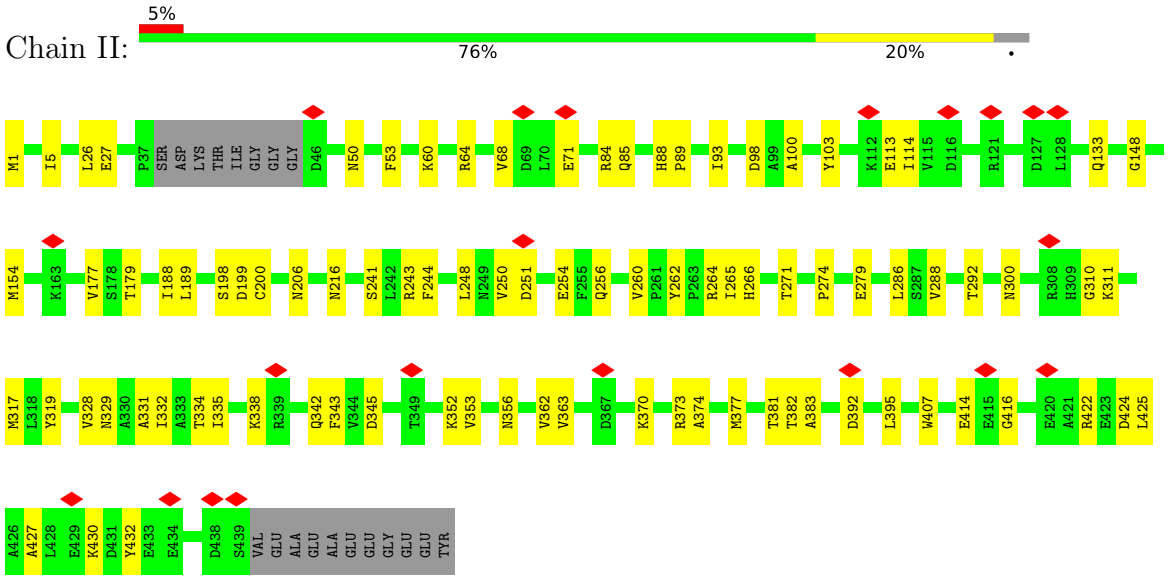
• Molecule 8: Tubulin alpha-3 chain

Chain IG:



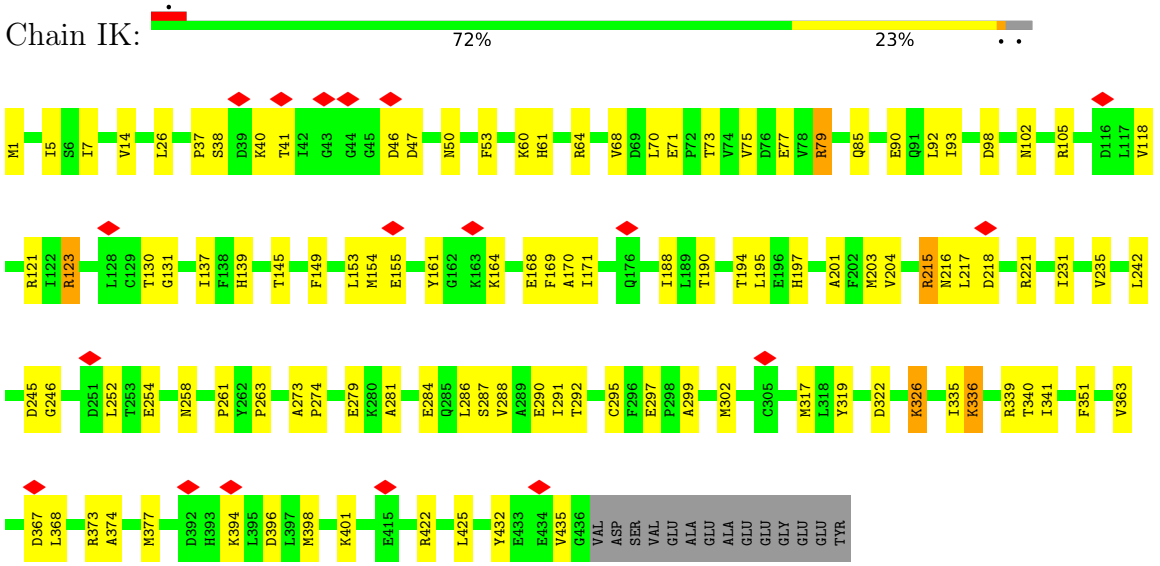
• Molecule 8: Tubulin alpha-3 chain

Chain II:



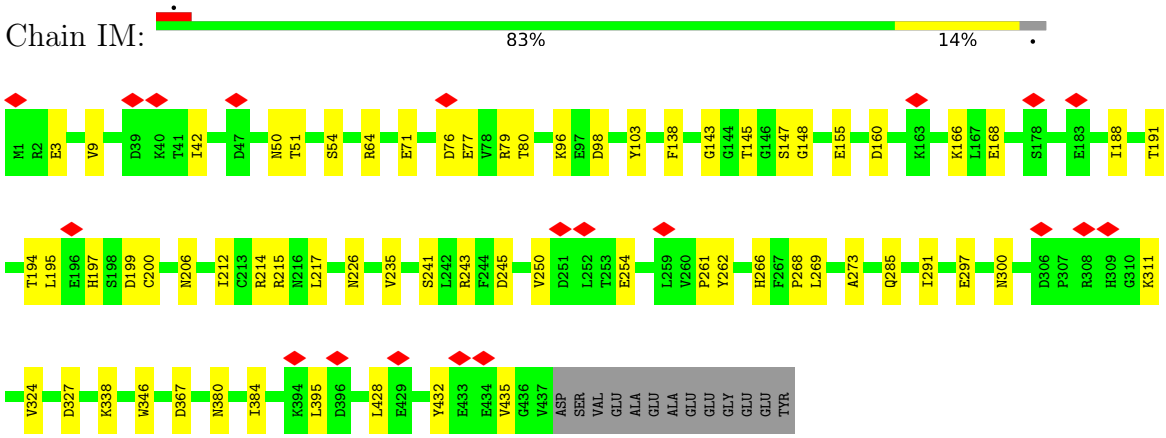
• Molecule 8: Tubulin alpha-3 chain

Chain IK:



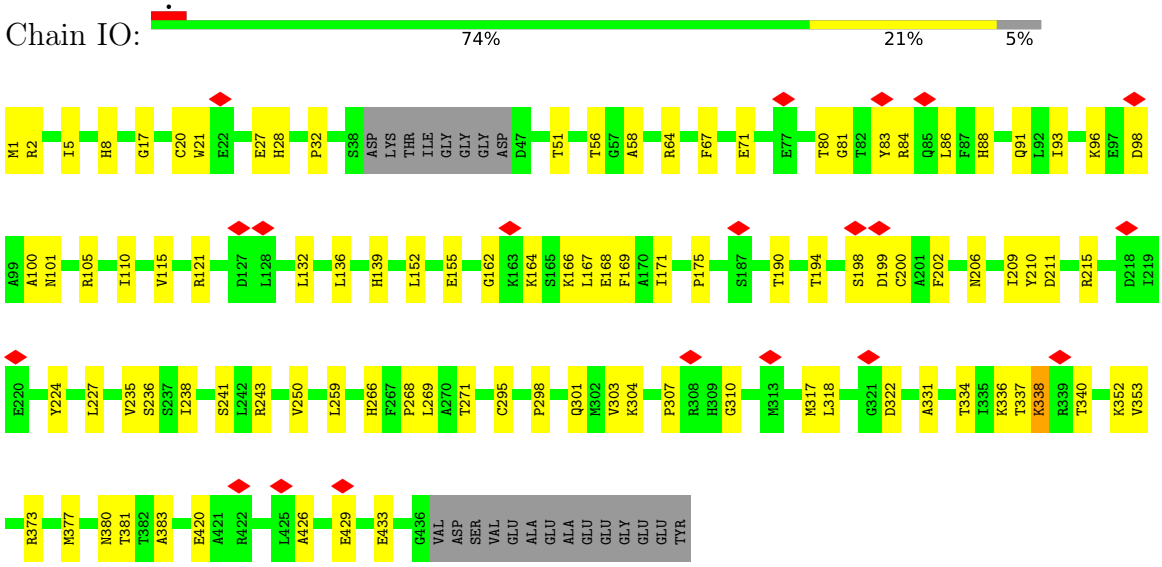
• Molecule 8: Tubulin alpha-3 chain

Chain IM:



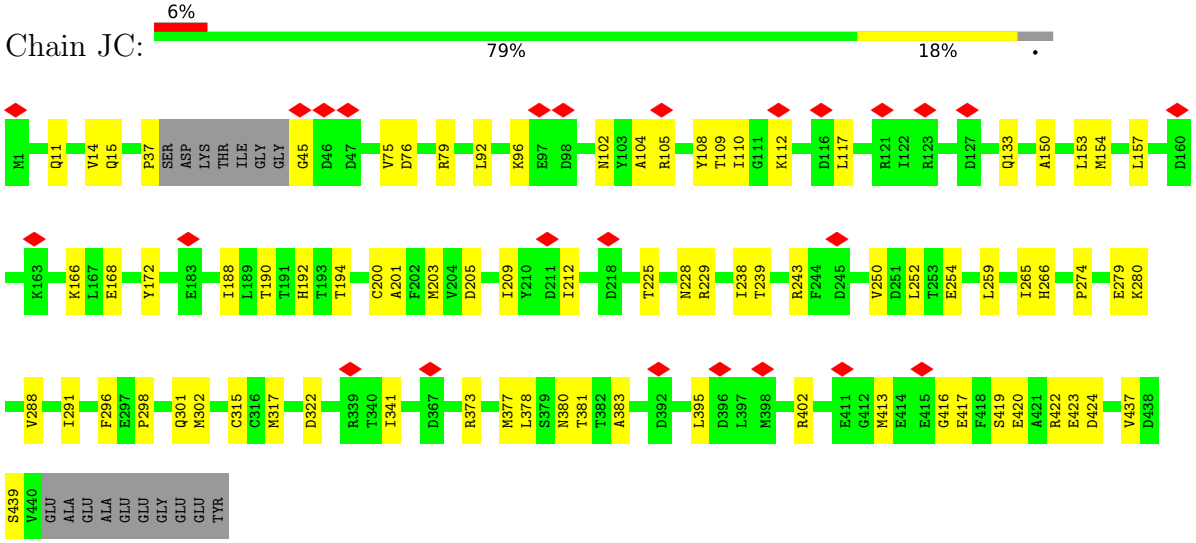
• Molecule 8: Tubulin alpha-3 chain

Chain IO:



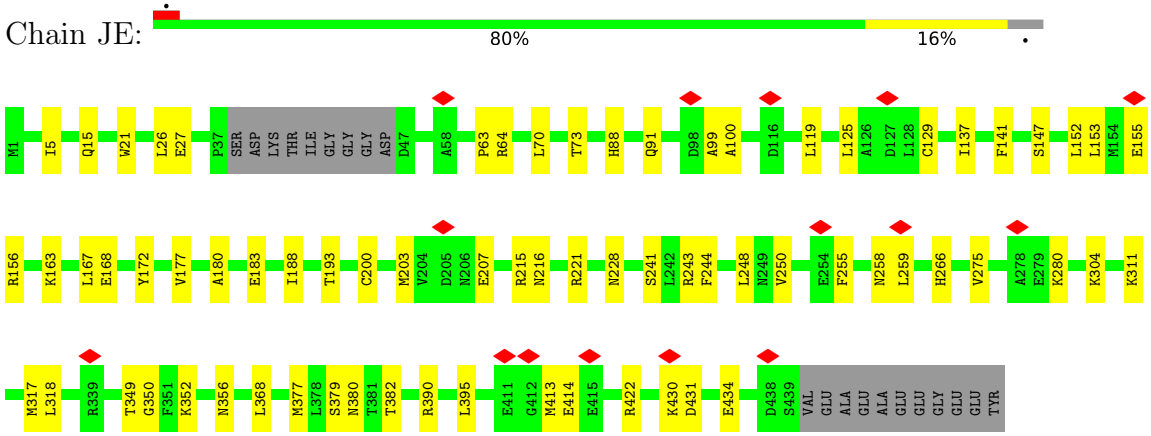
• Molecule 8: Tubulin alpha-3 chain

Chain JC:



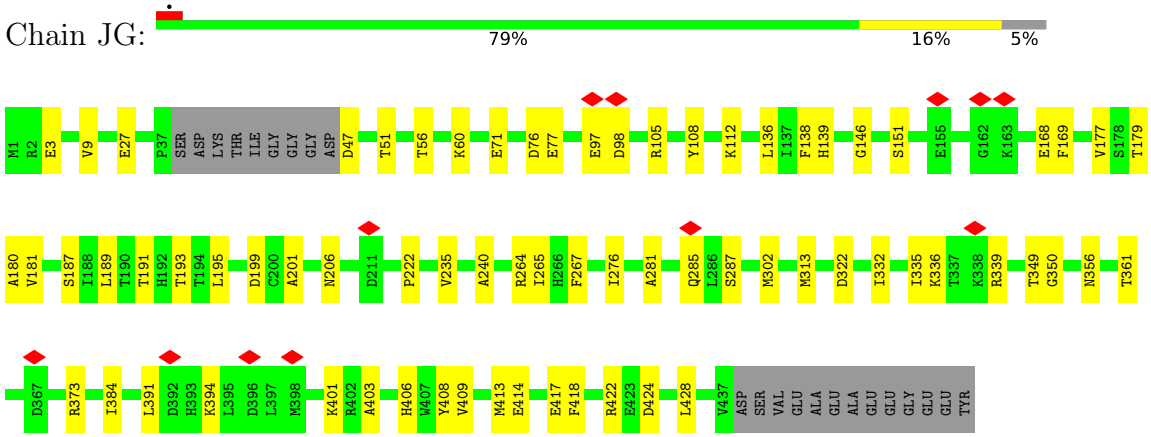
• Molecule 8: Tubulin alpha-3 chain

Chain JE:



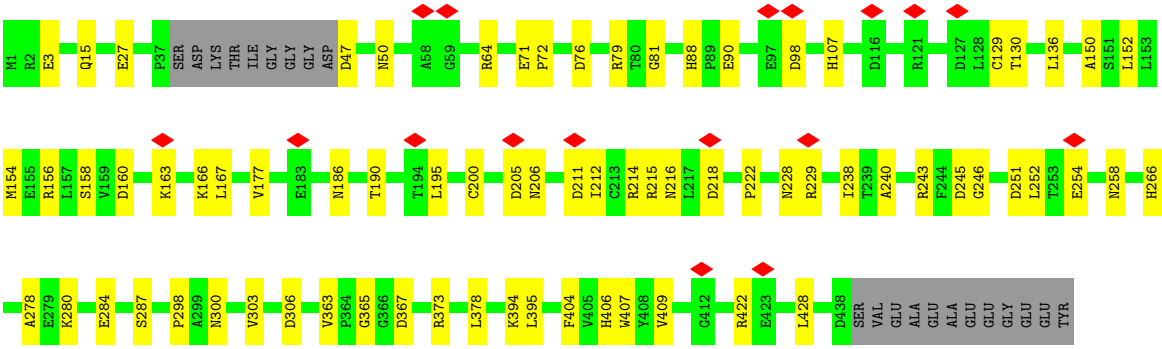
• Molecule 8: Tubulin alpha-3 chain

Chain JG:



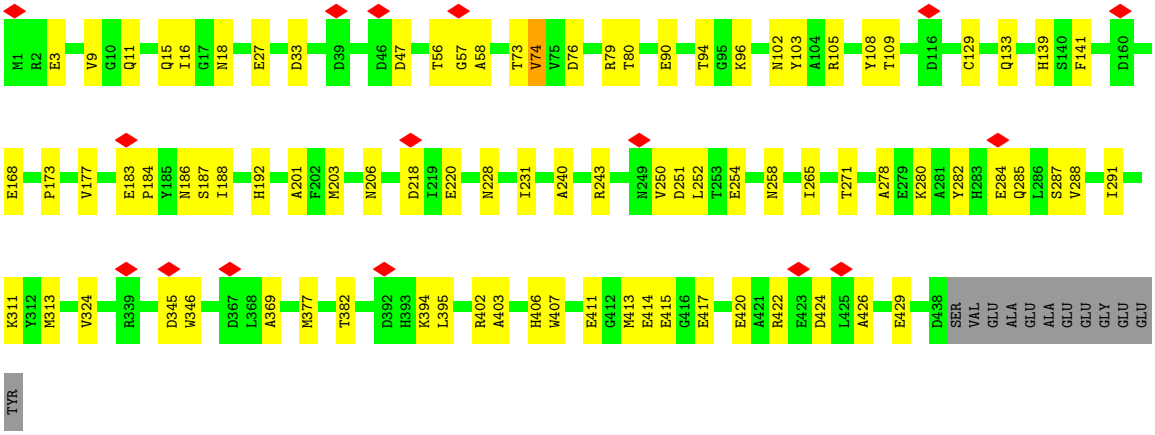
• Molecule 8: Tubulin alpha-3 chain

Chain JI:



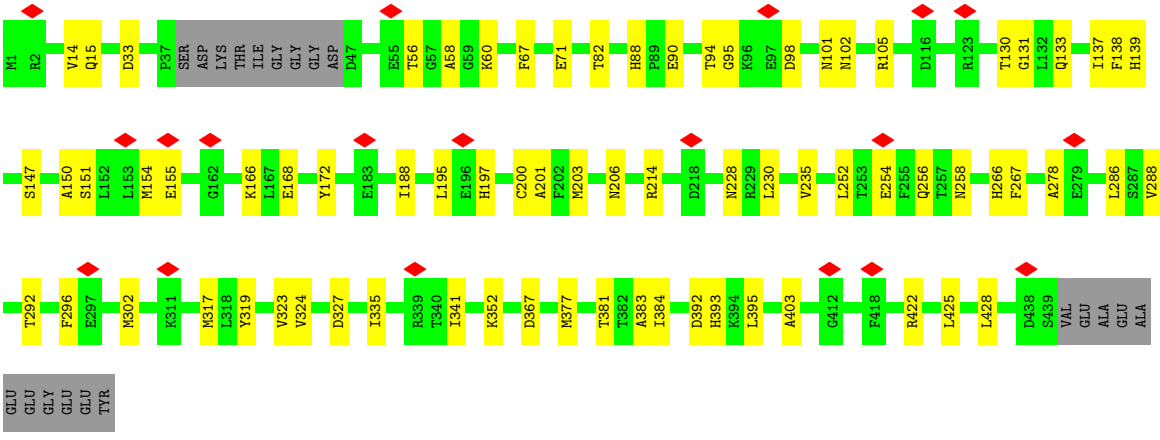
• Molecule 8: Tubulin alpha-3 chain

Chain JK:



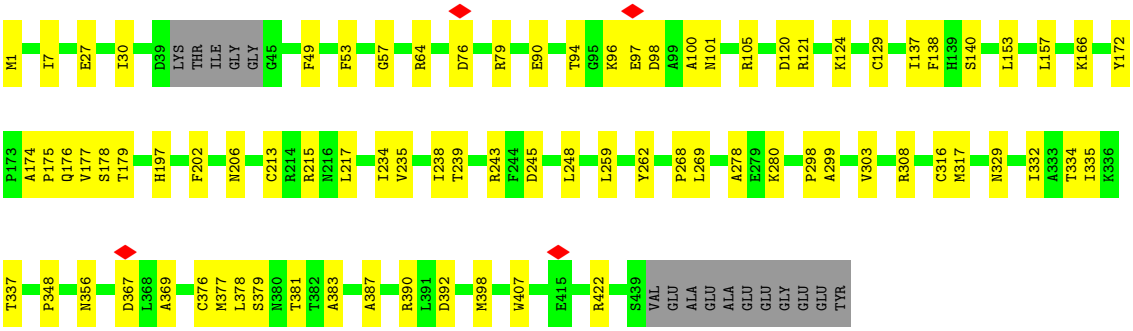
• Molecule 8: Tubulin alpha-3 chain

Chain JM:



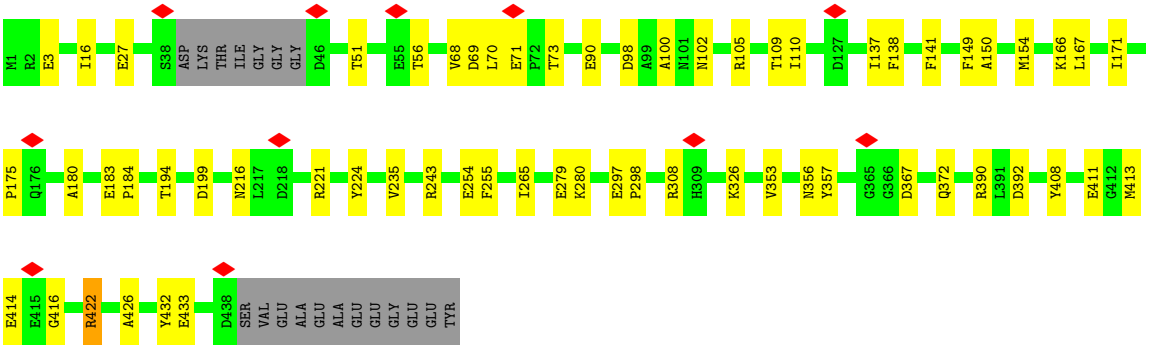
• Molecule 8: Tubulin alpha-3 chain

Chain KC:



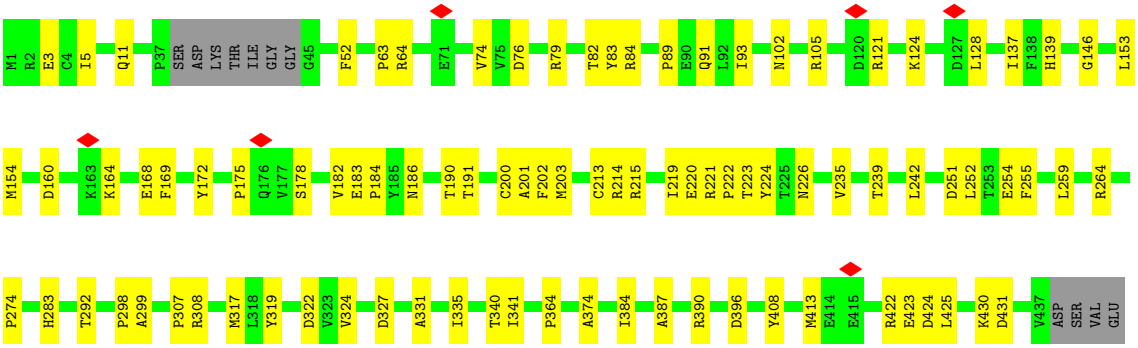
• Molecule 8: Tubulin alpha-3 chain

Chain KE:



• Molecule 8: Tubulin alpha-3 chain

Chain KG:

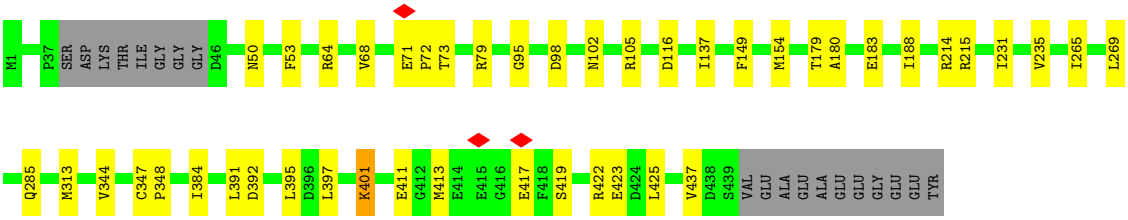


• Molecule 8: Tubulin alpha-3 chain

Chain KI:

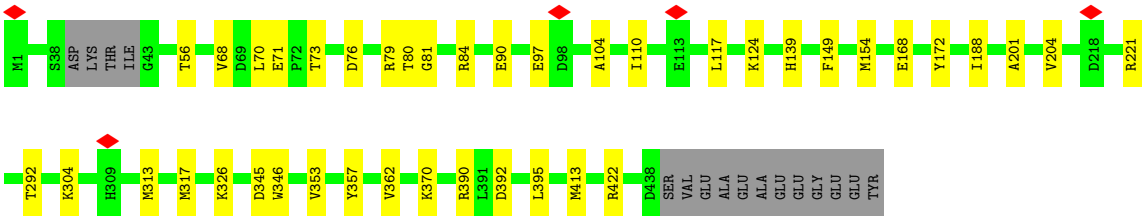
• Molecule 8: Tubulin alpha-3 chain

Chain KK:



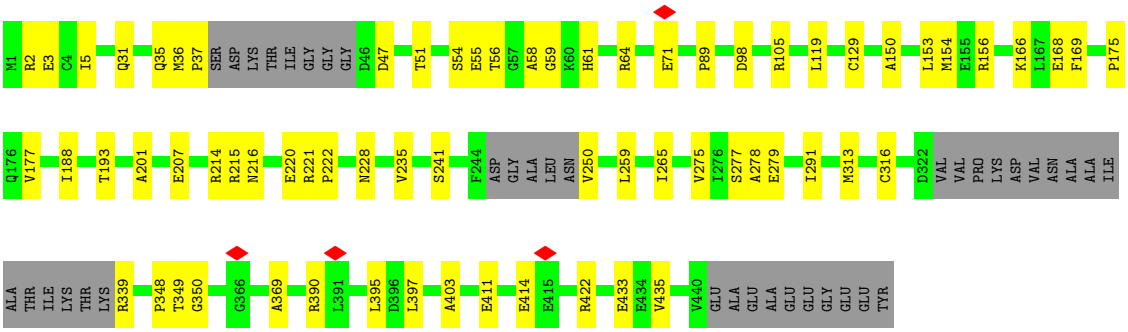
• Molecule 8: Tubulin alpha-3 chain

Chain KM:



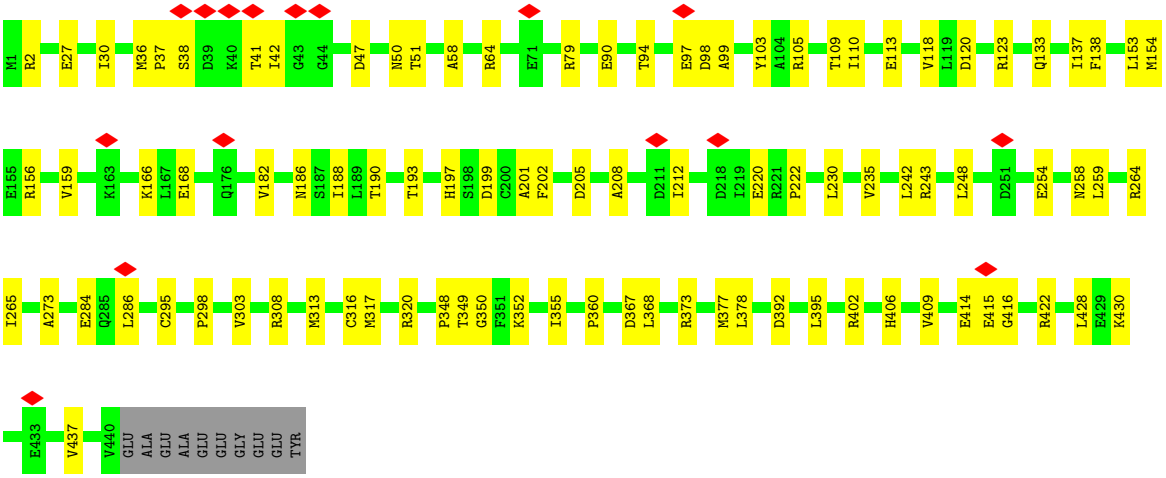
• Molecule 8: Tubulin alpha-3 chain

Chain KO:



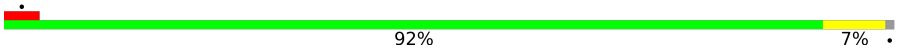
• Molecule 8: Tubulin alpha-3 chain

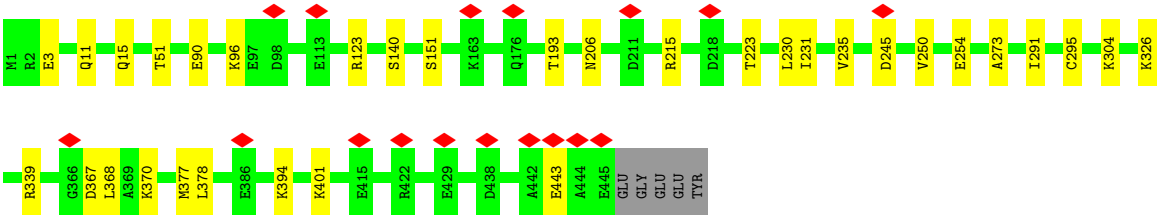
Chain LC:



• Molecule 8: Tubulin alpha-3 chain

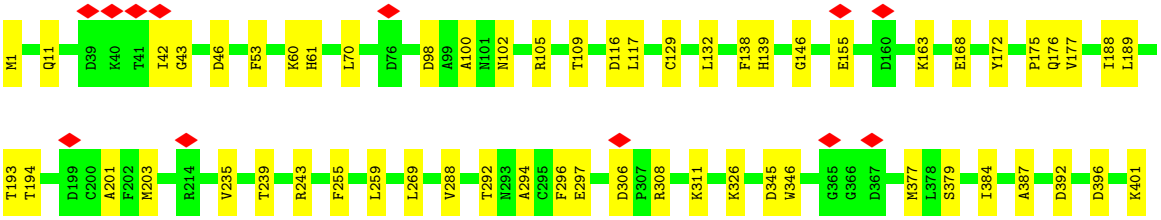
Chain LE:





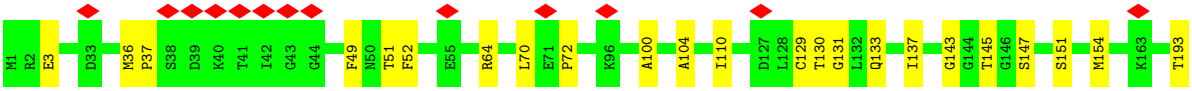
• Molecule 8: Tubulin alpha-3 chain

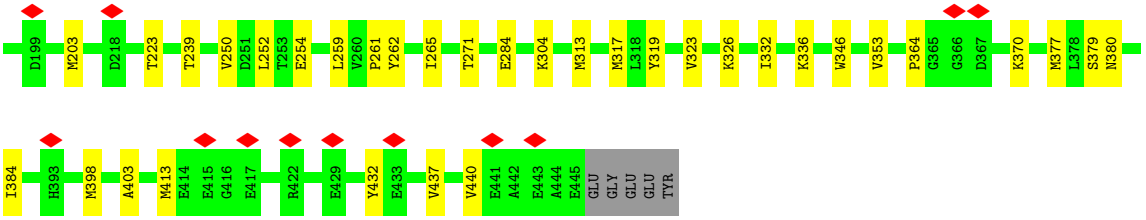
Chain LG:



• Molecule 8: Tubulin alpha-3 chain

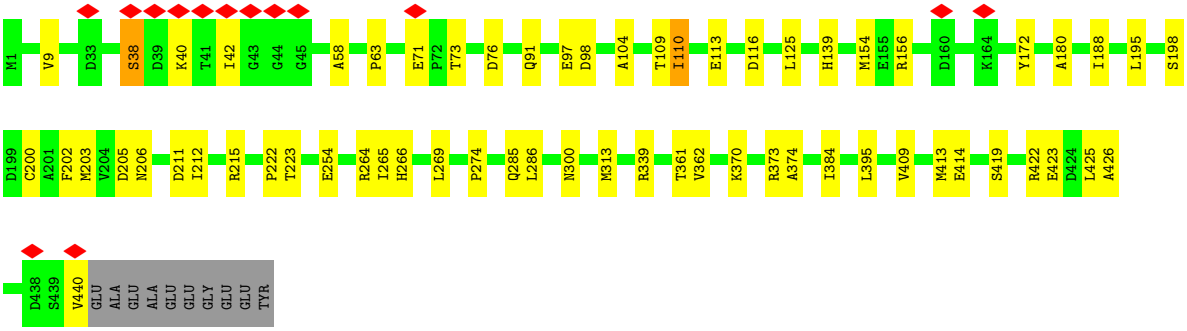
Chain LI:





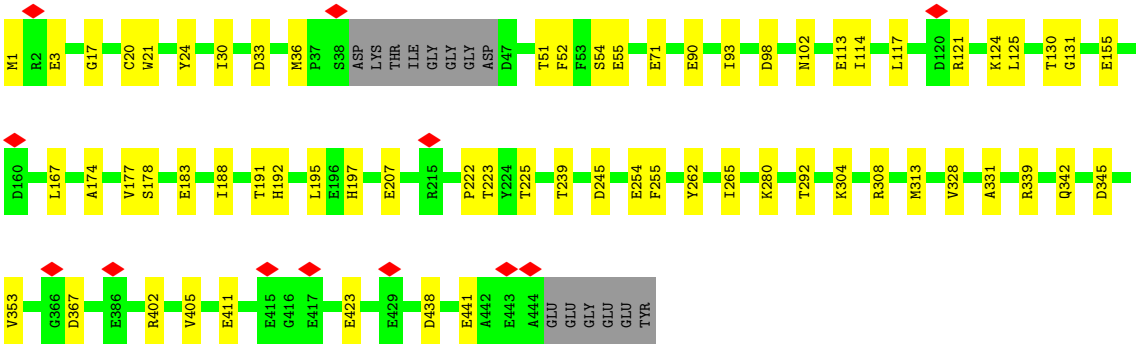
• Molecule 8: Tubulin alpha-3 chain

Chain LK:



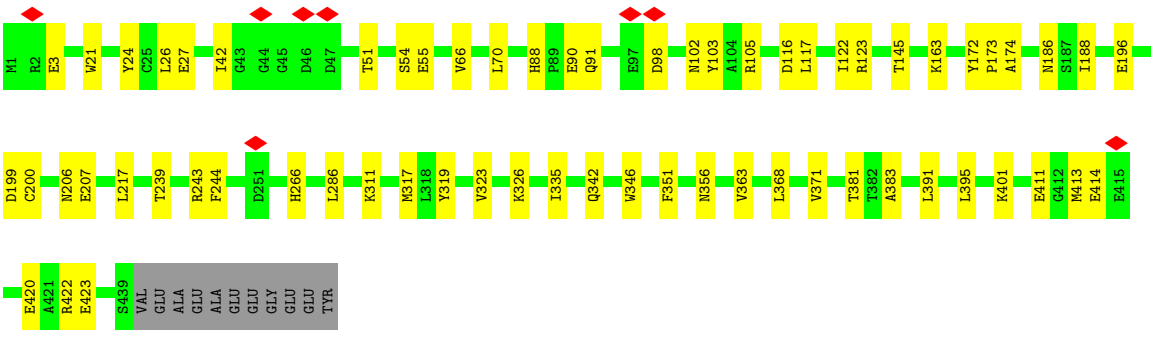
• Molecule 8: Tubulin alpha-3 chain

Chain LM:



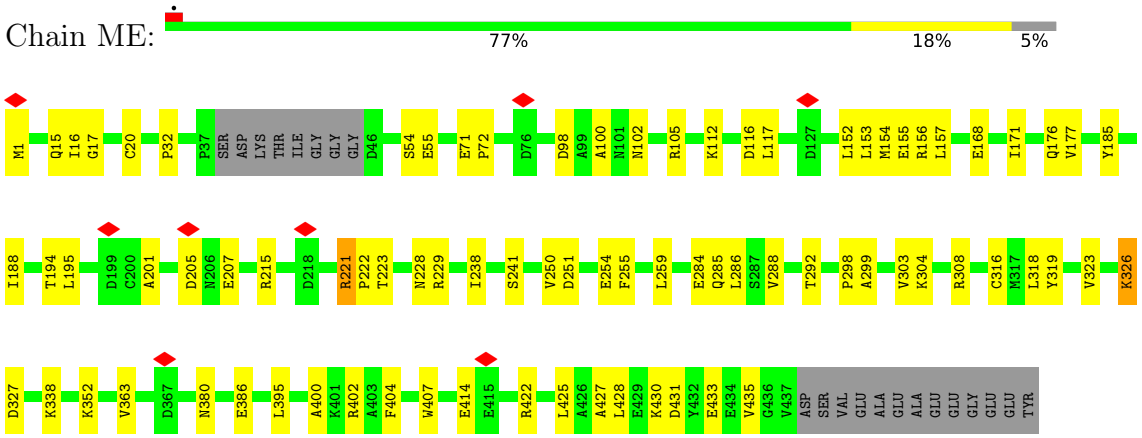
• Molecule 8: Tubulin alpha-3 chain

Chain MC:



• Molecule 8: Tubulin alpha-3 chain

Chain ME:



• Molecule 8: Tubulin alpha-3 chain

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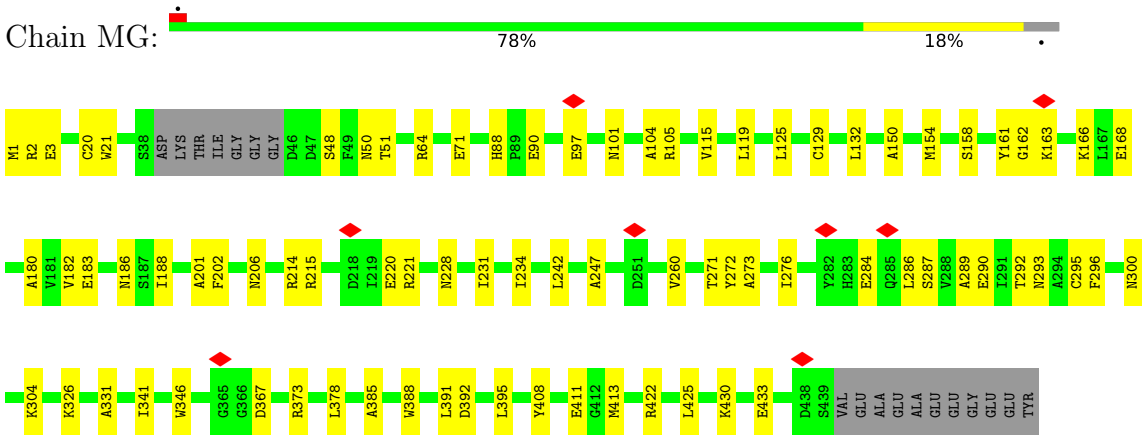

• Molecule 8: Tubulin alpha-3 chain

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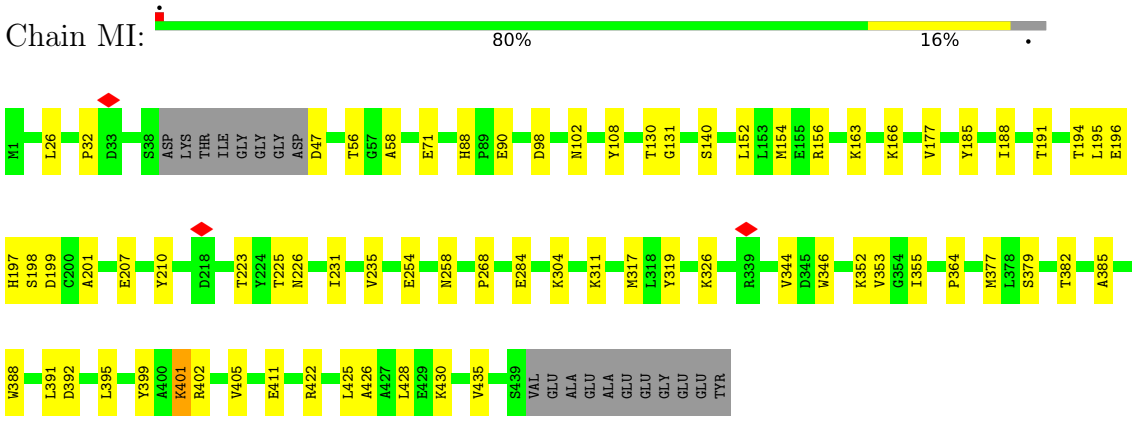

• Molecule 8: Tubulin alpha-3 chain

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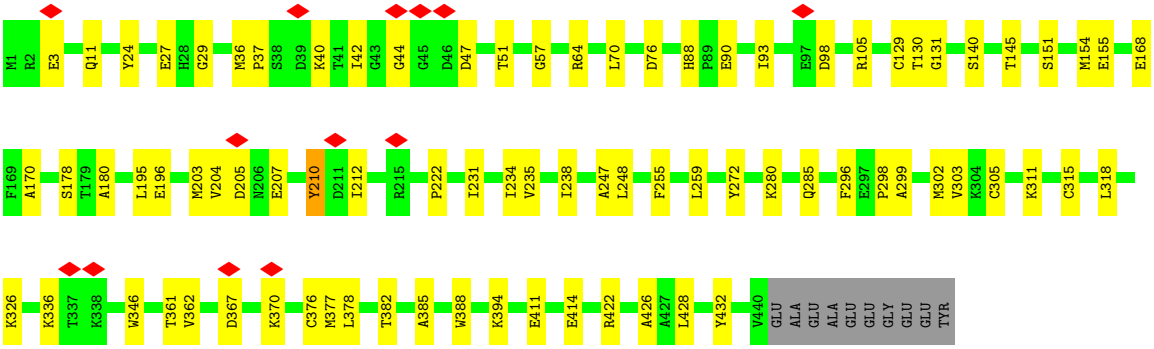
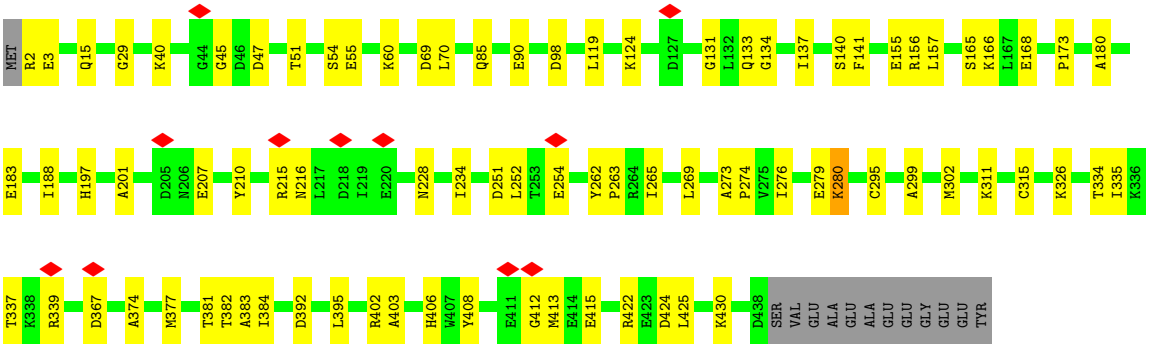


• Molecule 8: Tubulin alpha-3 chain

Chain MM:



• Molecule 8: Tubulin alpha-3 chain

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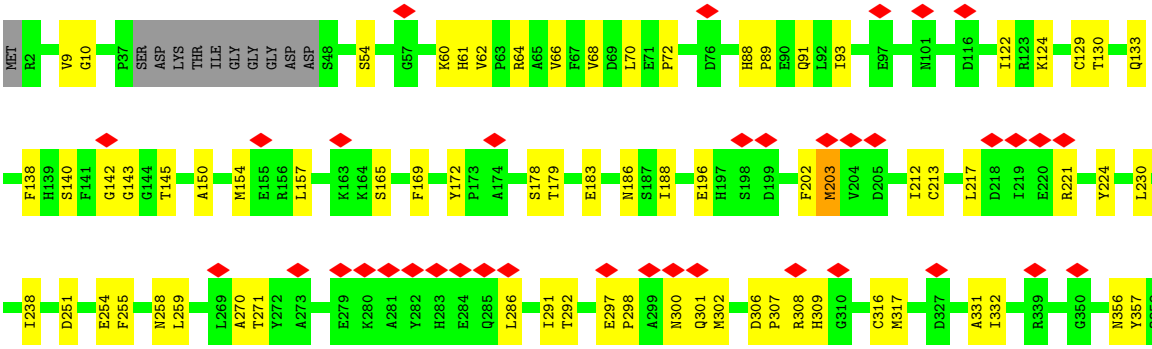

• Molecule 8: Tubulin alpha-3 chain

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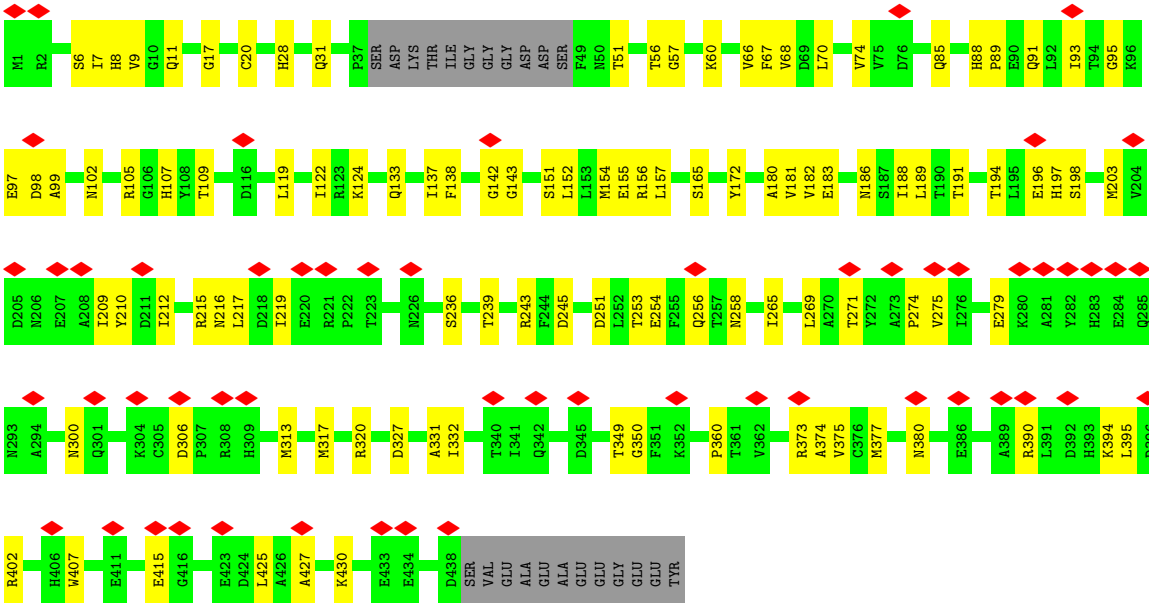

• Molecule 8: Tubulin alpha-3 chain

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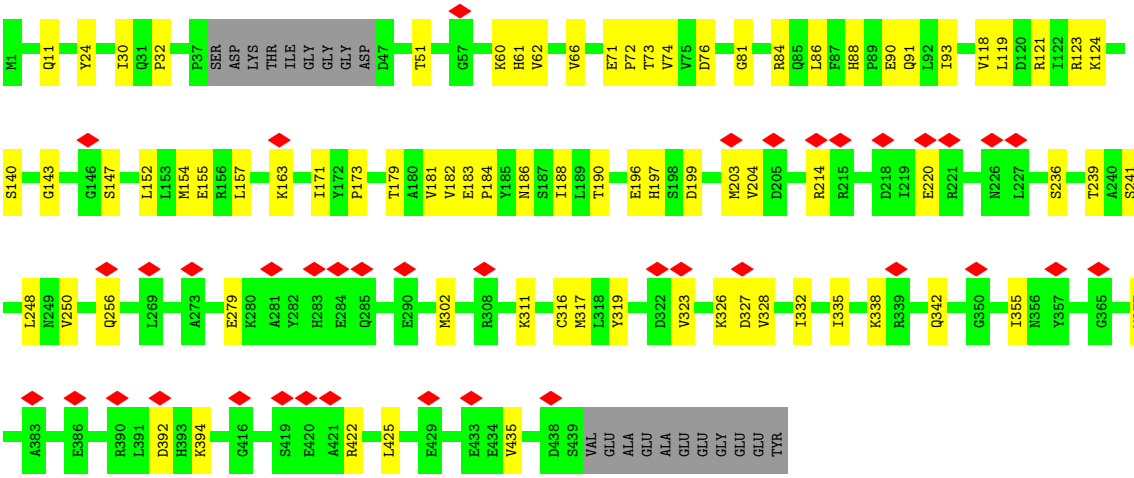
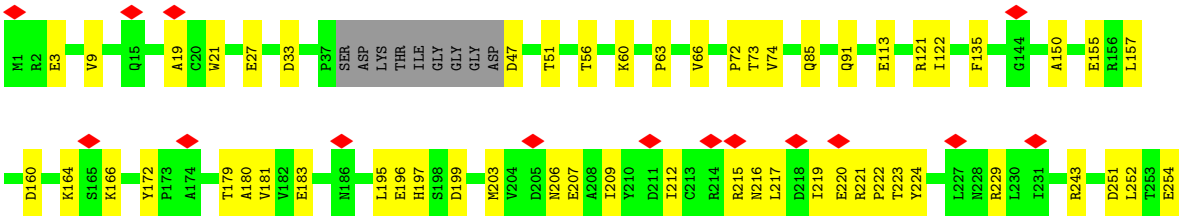
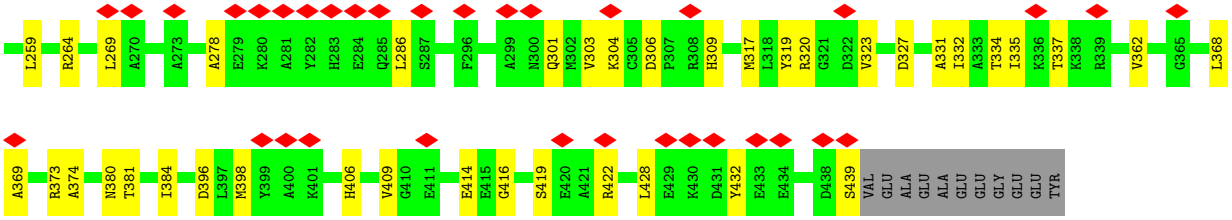


• Molecule 8: Tubulin alpha-3 chain

Chain NG:





• Molecule 8: Tubulin alpha-3 chain

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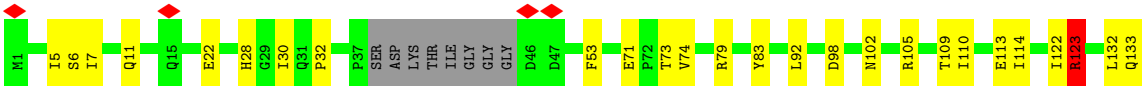
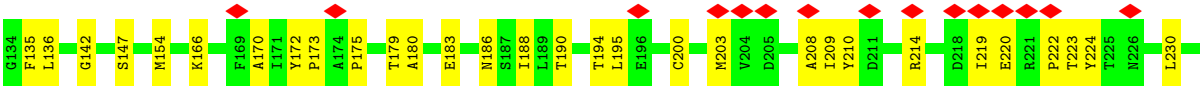
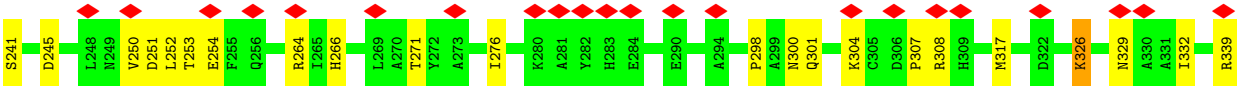
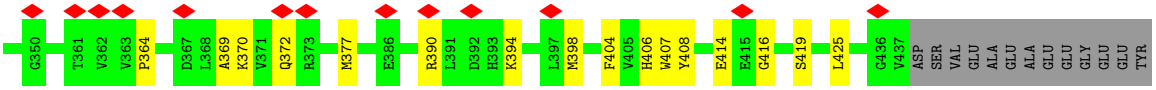


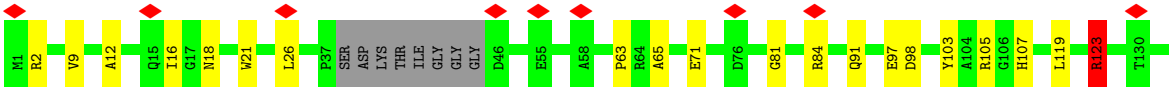


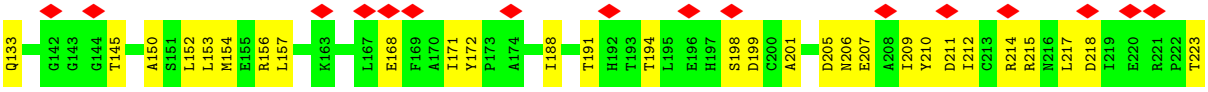


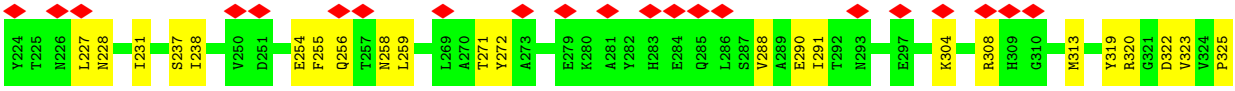


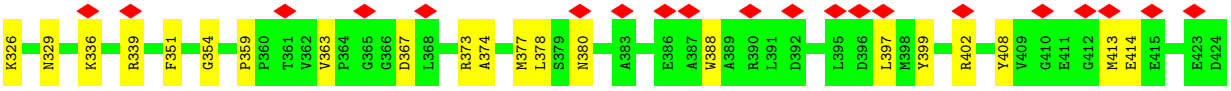
• Molecule 8: Tubulin alpha-3 chain

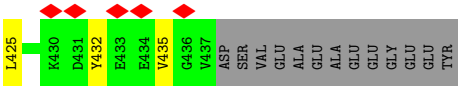
Chain NK:





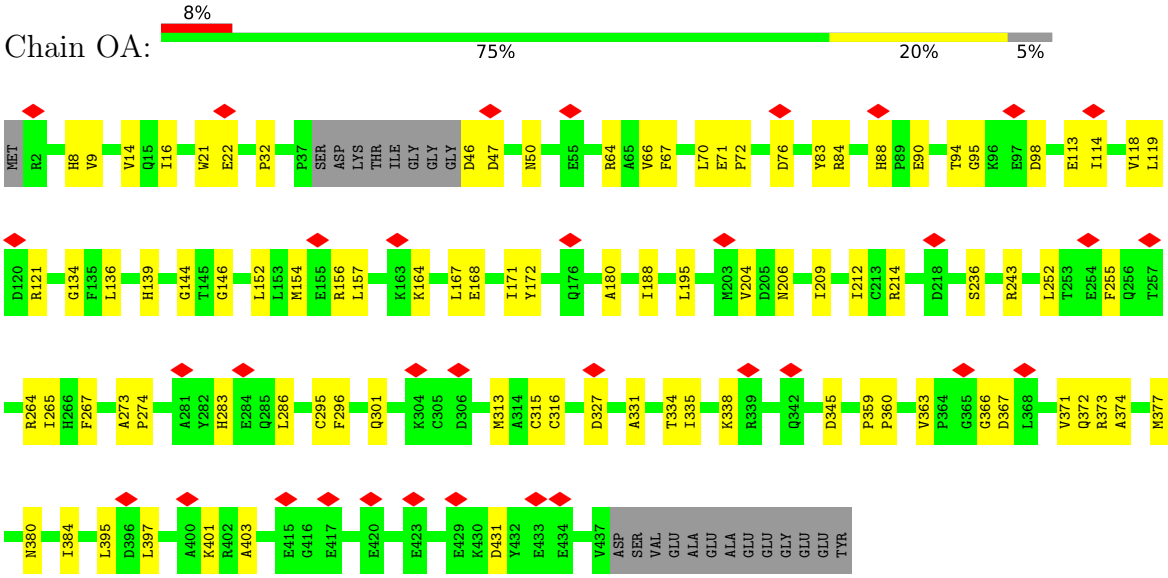






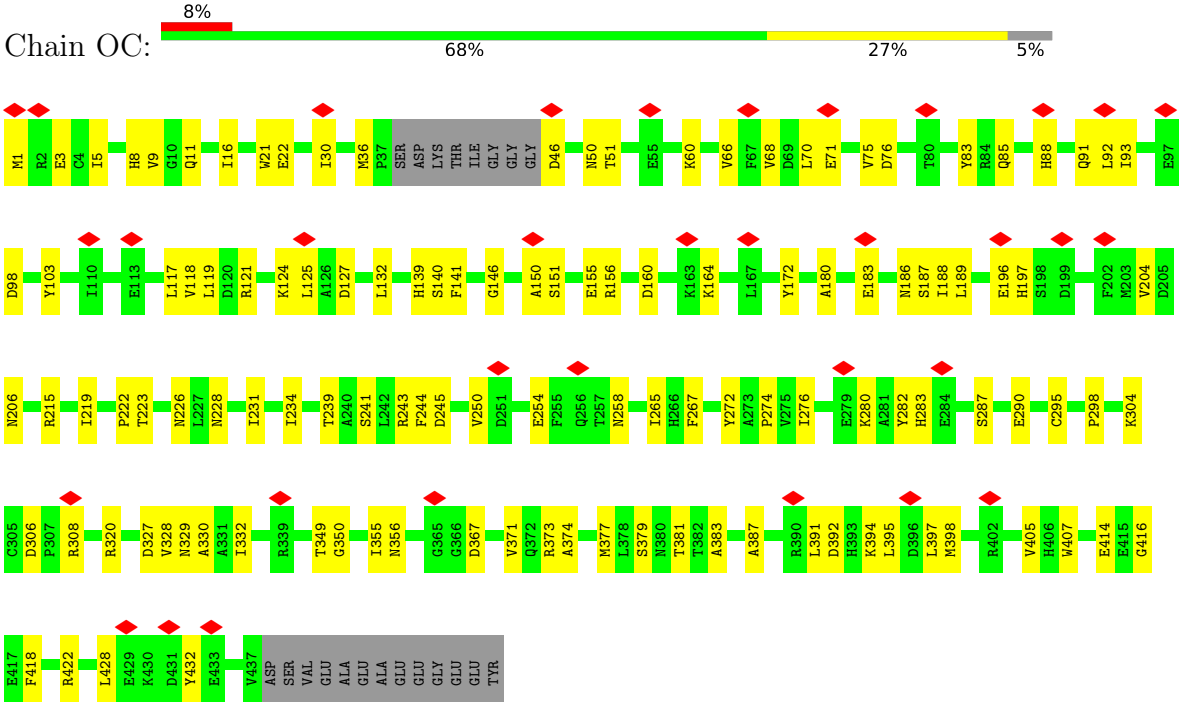
• Molecule 8: Tubulin alpha-3 chain

Chain OA:



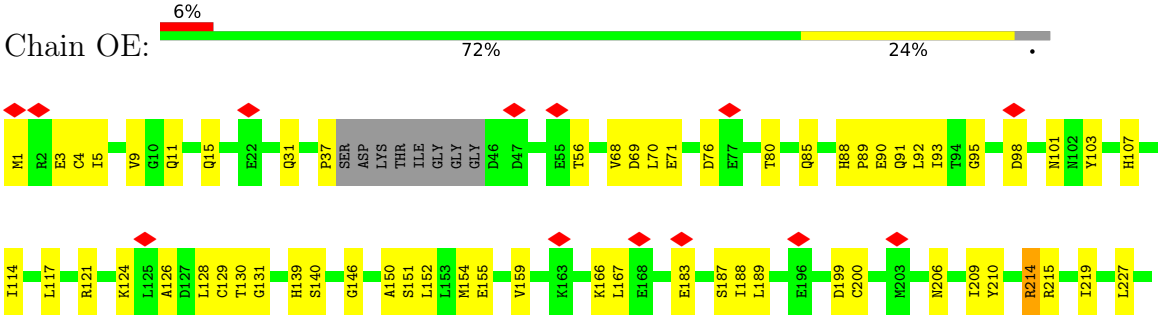
• Molecule 8: Tubulin alpha-3 chain

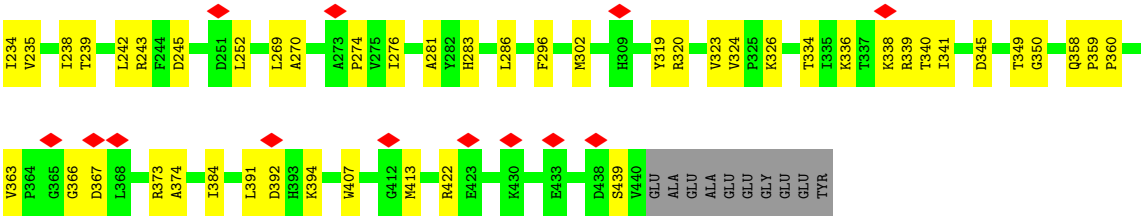
Chain OC:



• Molecule 8: Tubulin alpha-3 chain

Chain OE:





• Molecule 8: Tubulin alpha-3 chain

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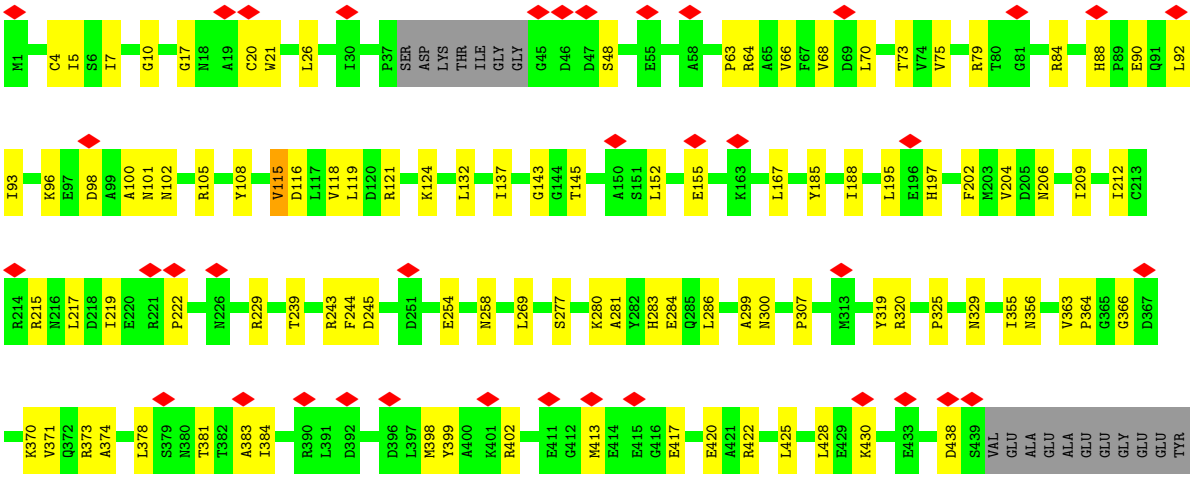

• Molecule 8: Tubulin alpha-3 chain

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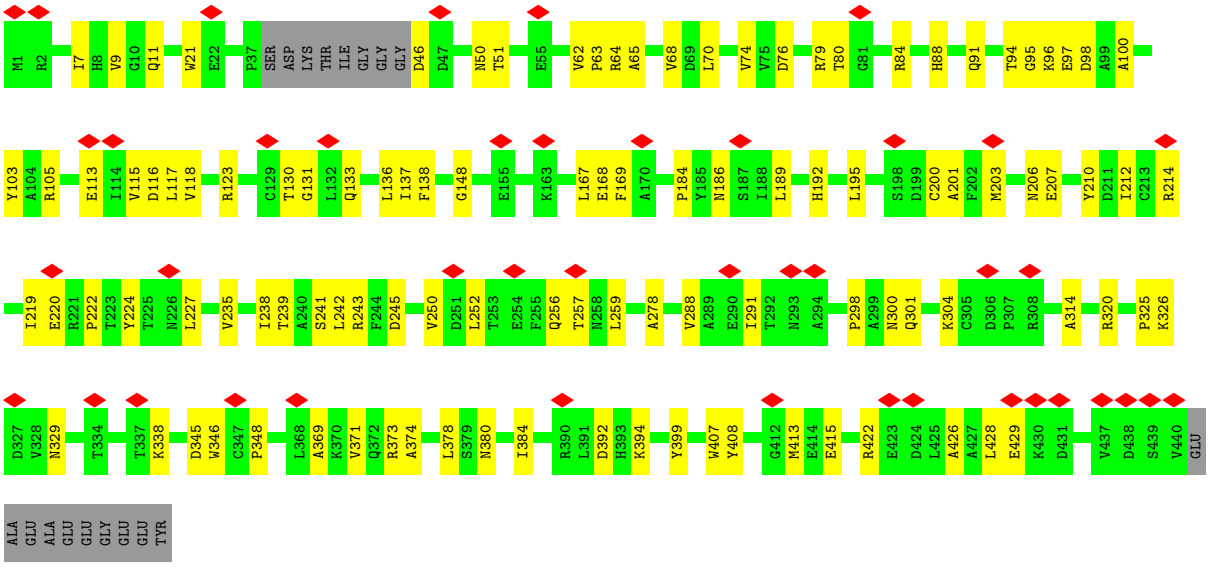
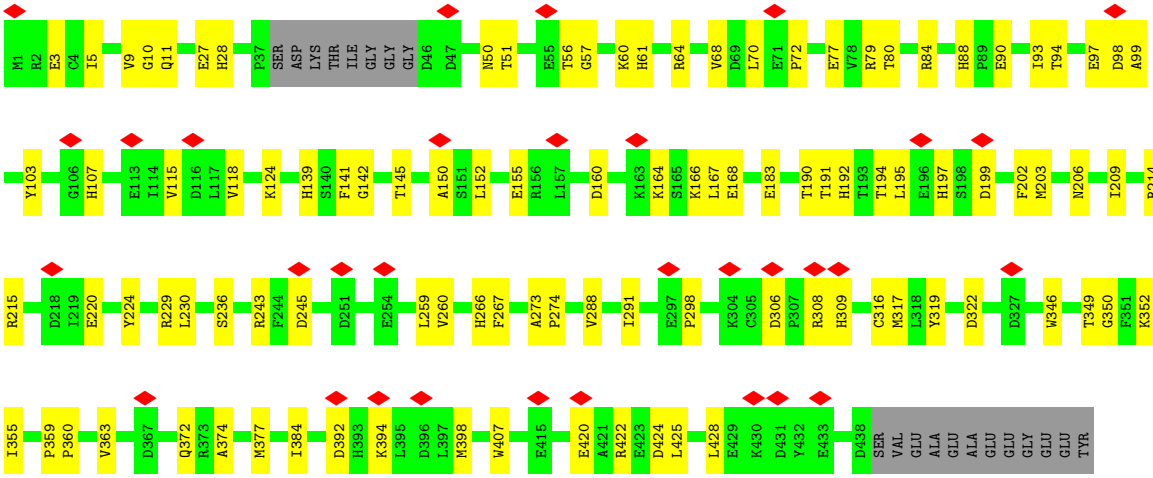


• Molecule 8: Tubulin alpha-3 chain

Chain OK:



• Molecule 8: Tubulin alpha-3 chain

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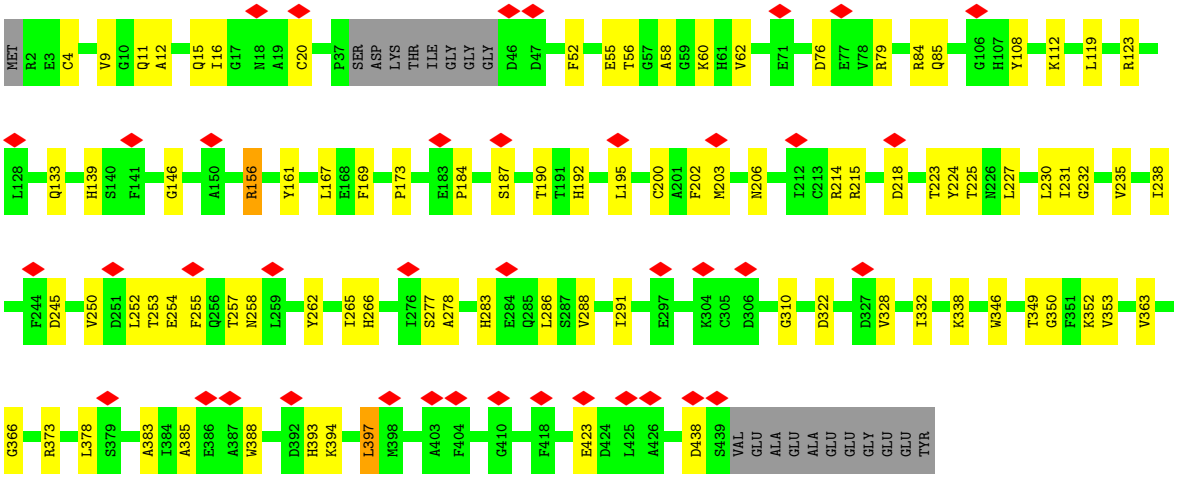

• Molecule 8: Tubulin alpha-3 chain

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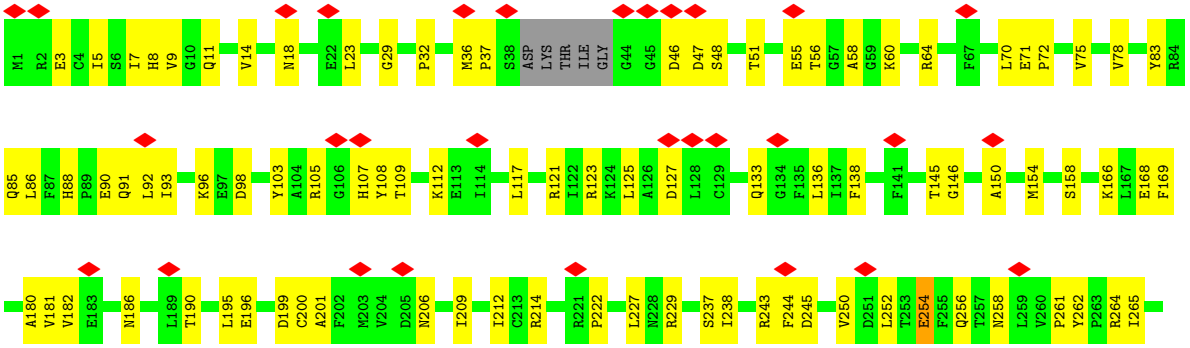
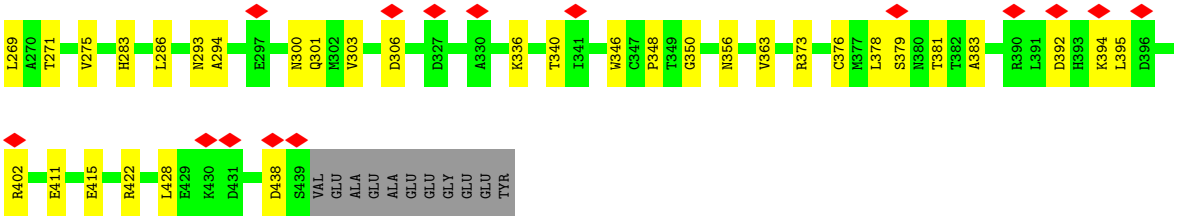
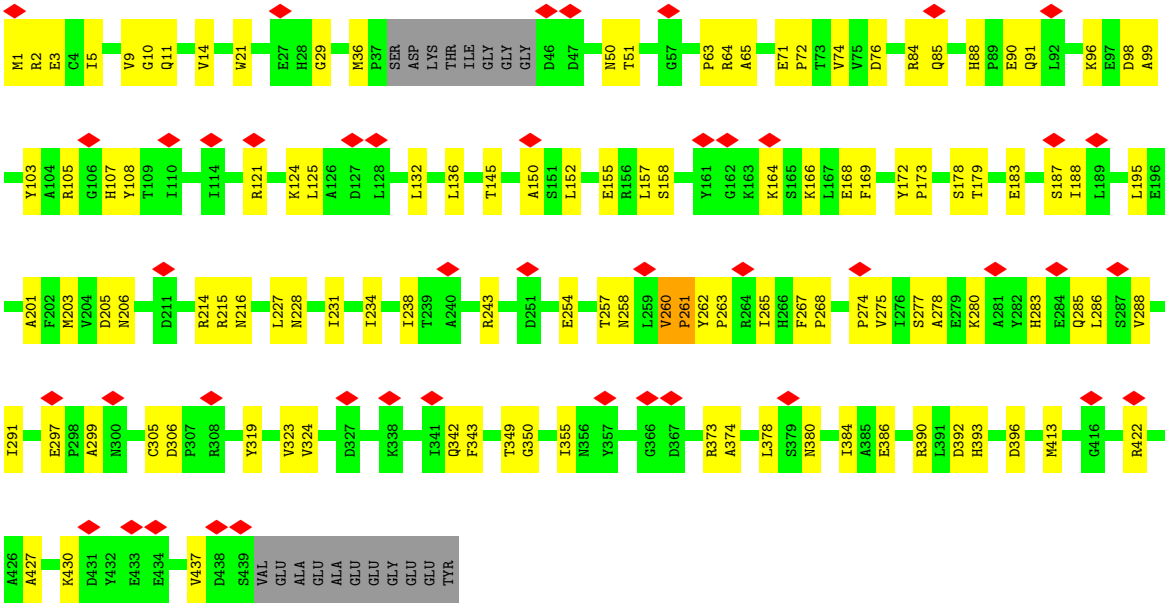
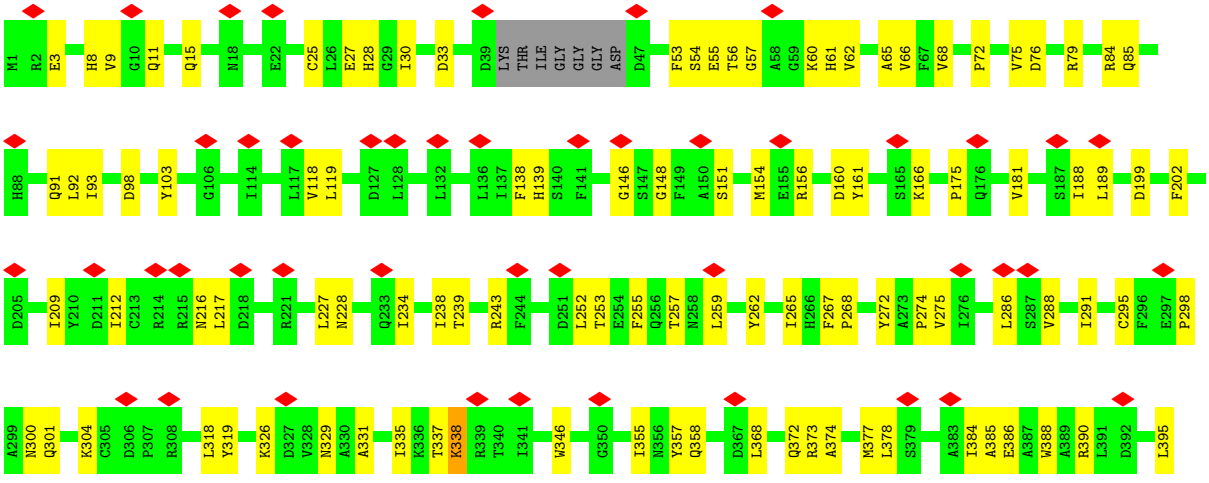


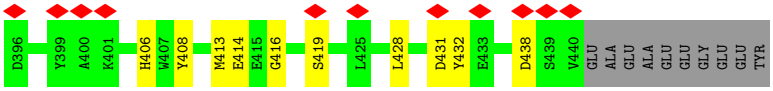


• Molecule 8: Tubulin alpha-3 chain

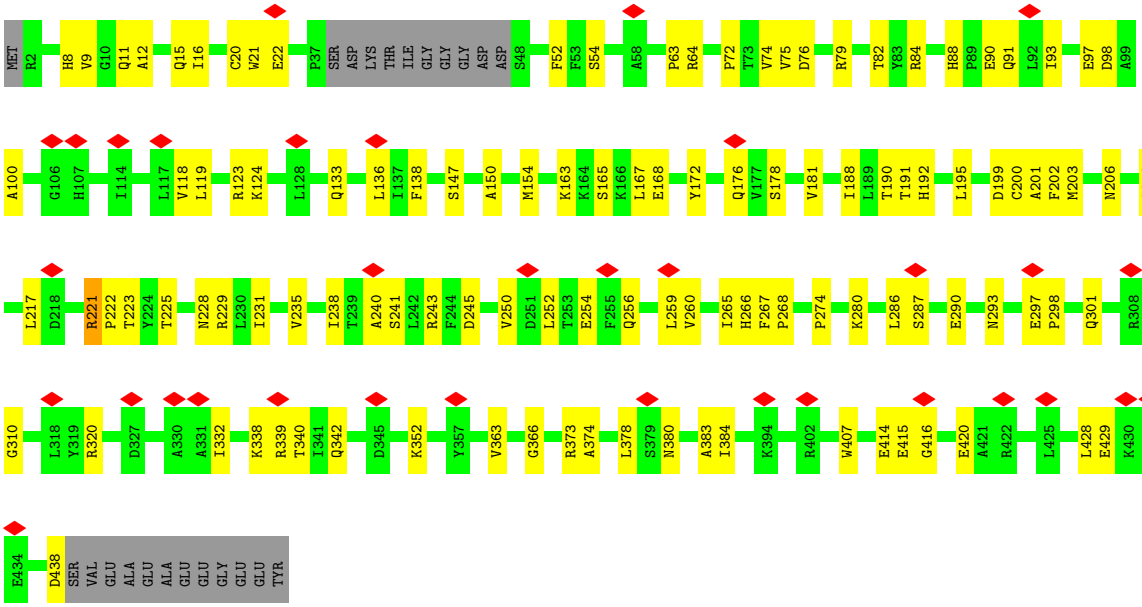


• Molecule 8: Tubulin alpha-3 chain

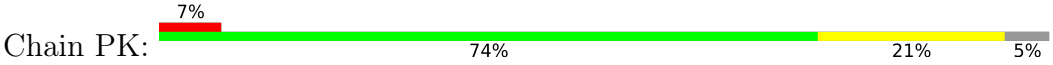


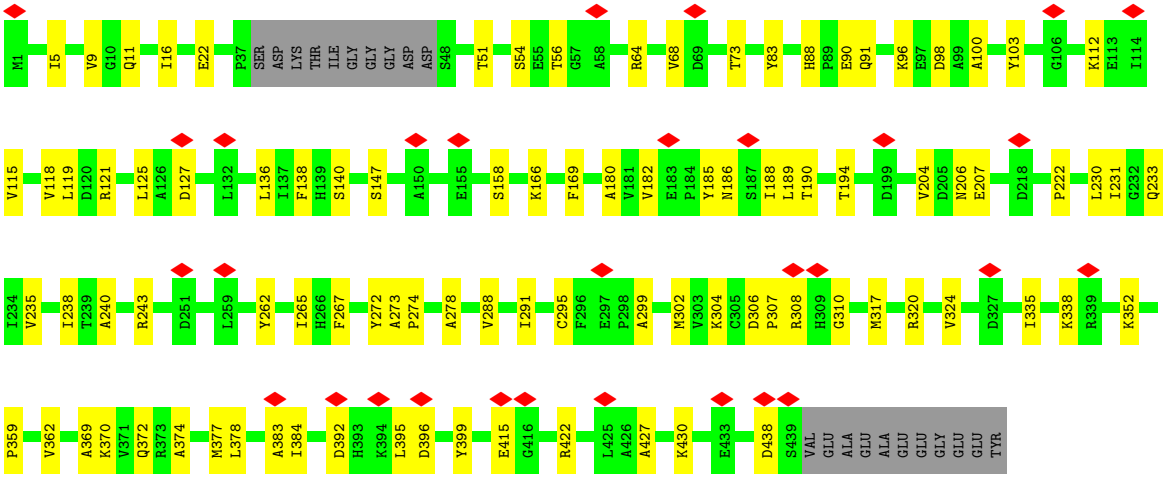


• Molecule 8: Tubulin alpha-3 chain

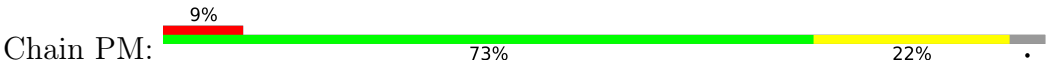


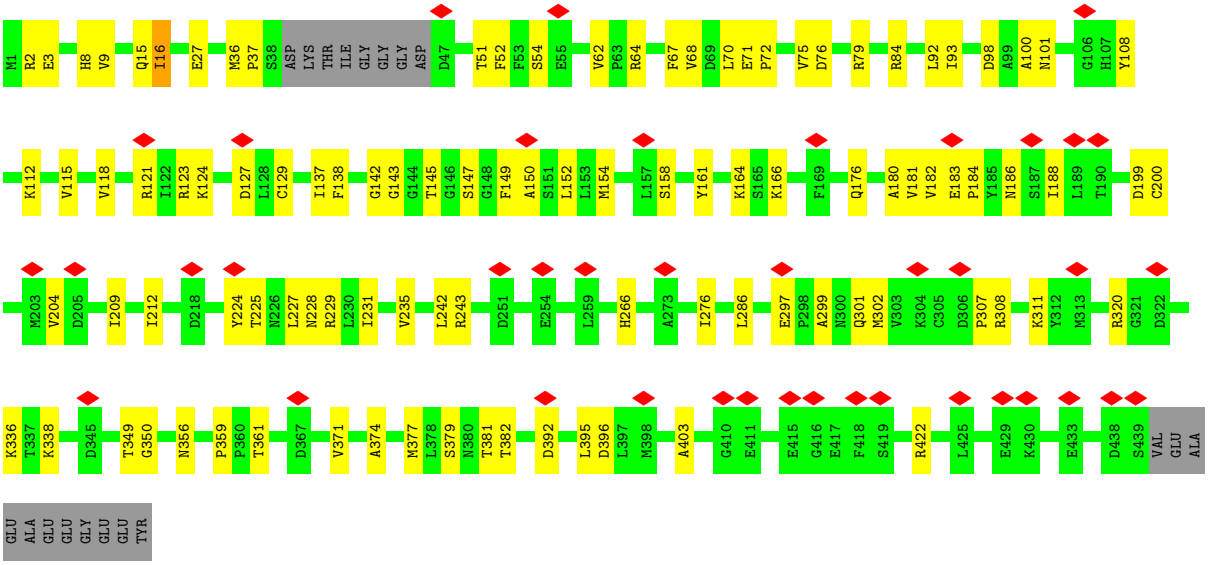
• Molecule 8: Tubulin alpha-3 chain





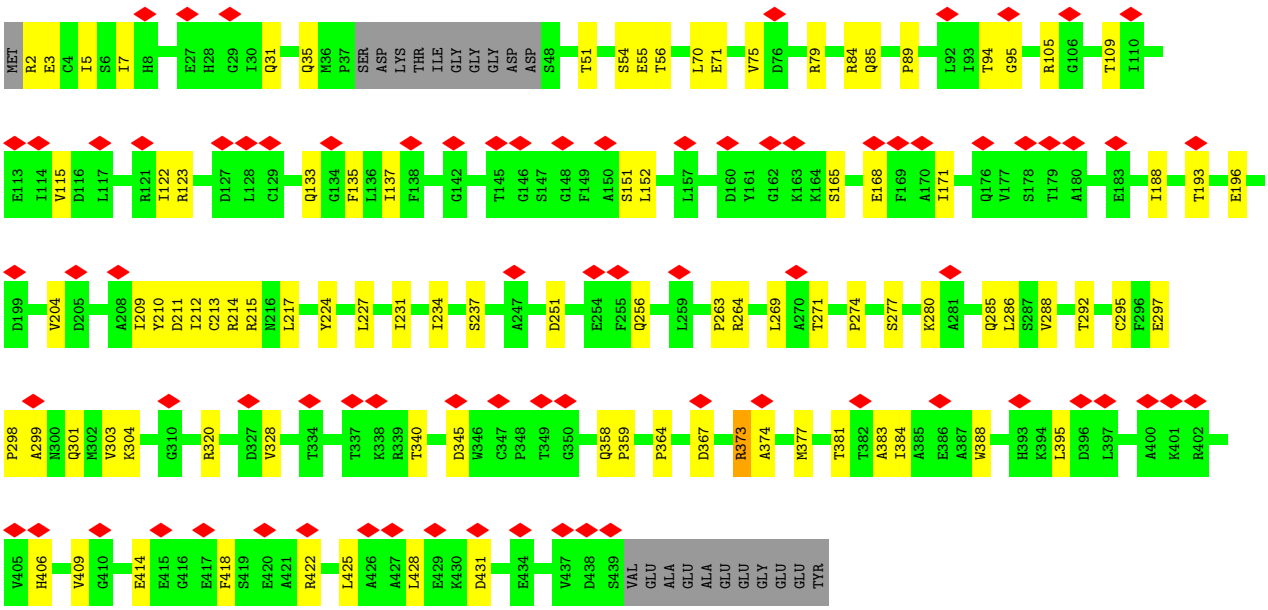
• Molecule 8: Tubulin alpha-3 chain





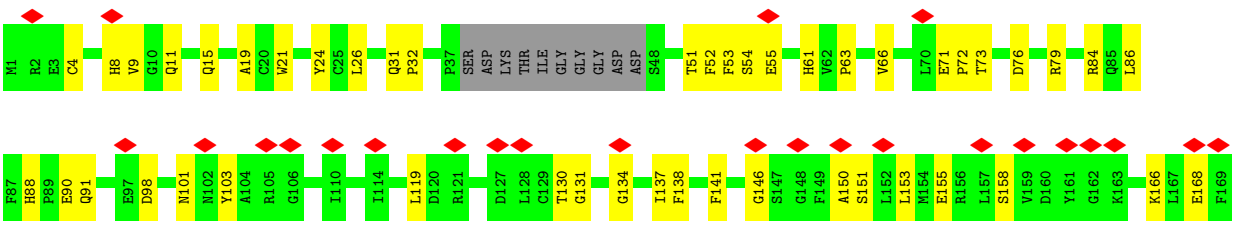
• Molecule 8: Tubulin alpha-3 chain

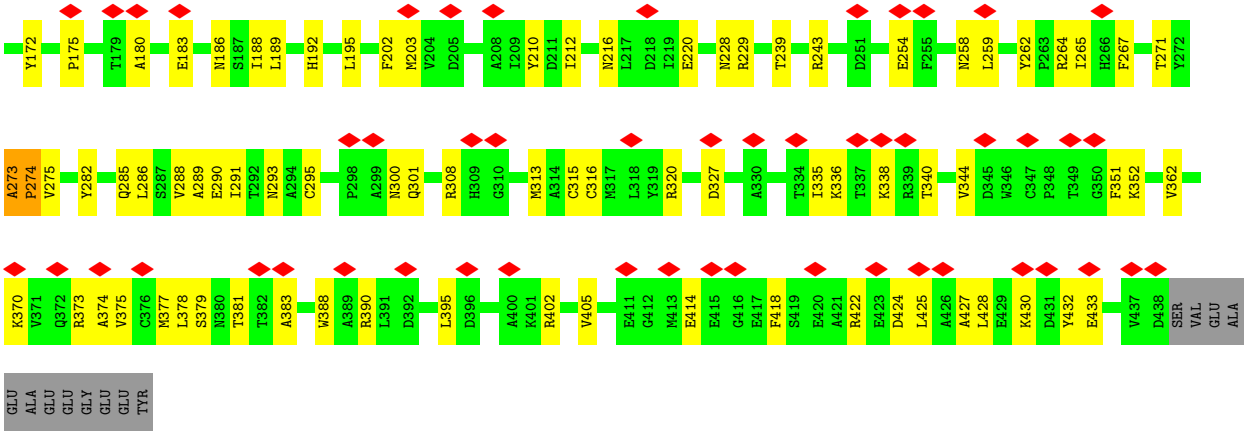
Chain QA:



• Molecule 8: Tubulin alpha-3 chain

Chain QC:





• Molecule 8: Tubulin alpha-3 chain

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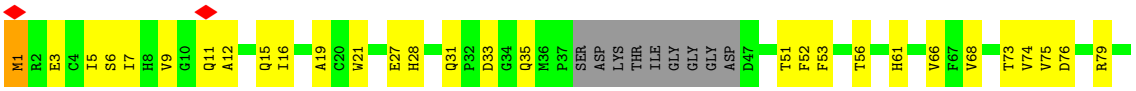
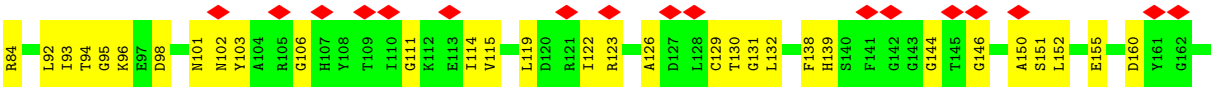
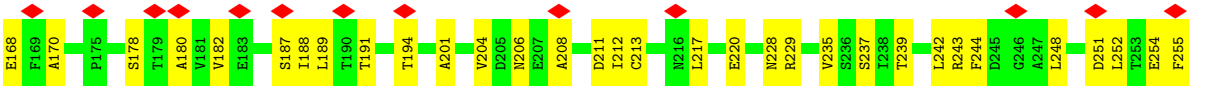
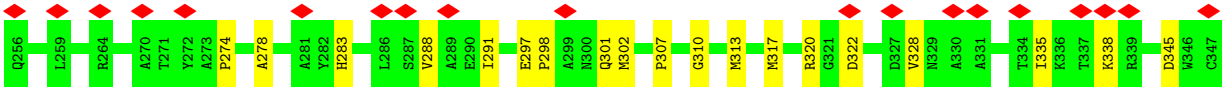
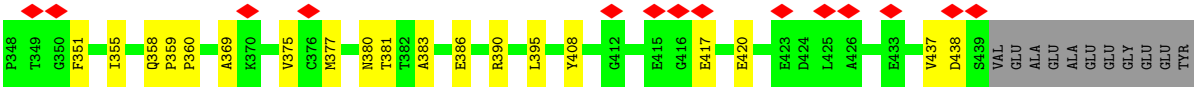




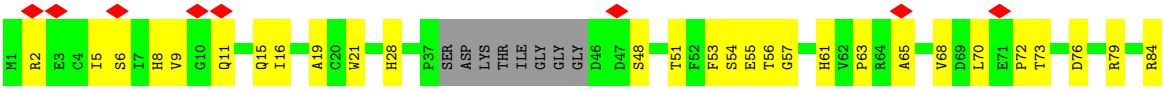


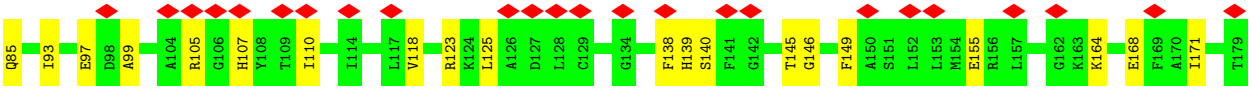


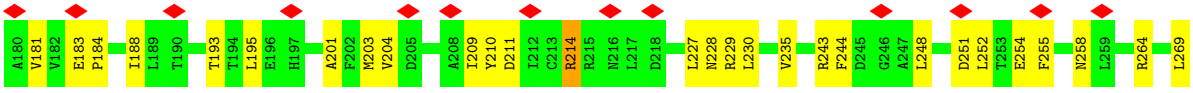


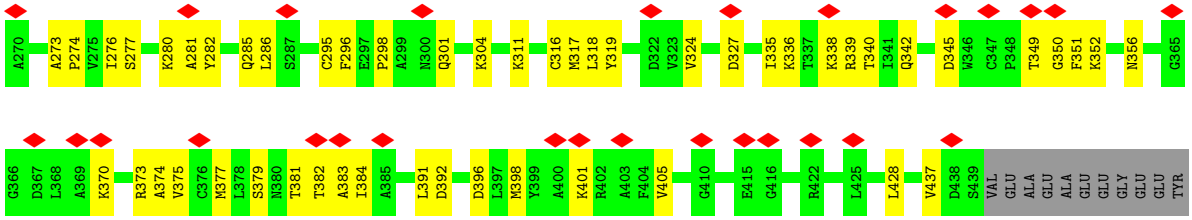
• Molecule 8: Tubulin alpha-3 chain

Chain QG:



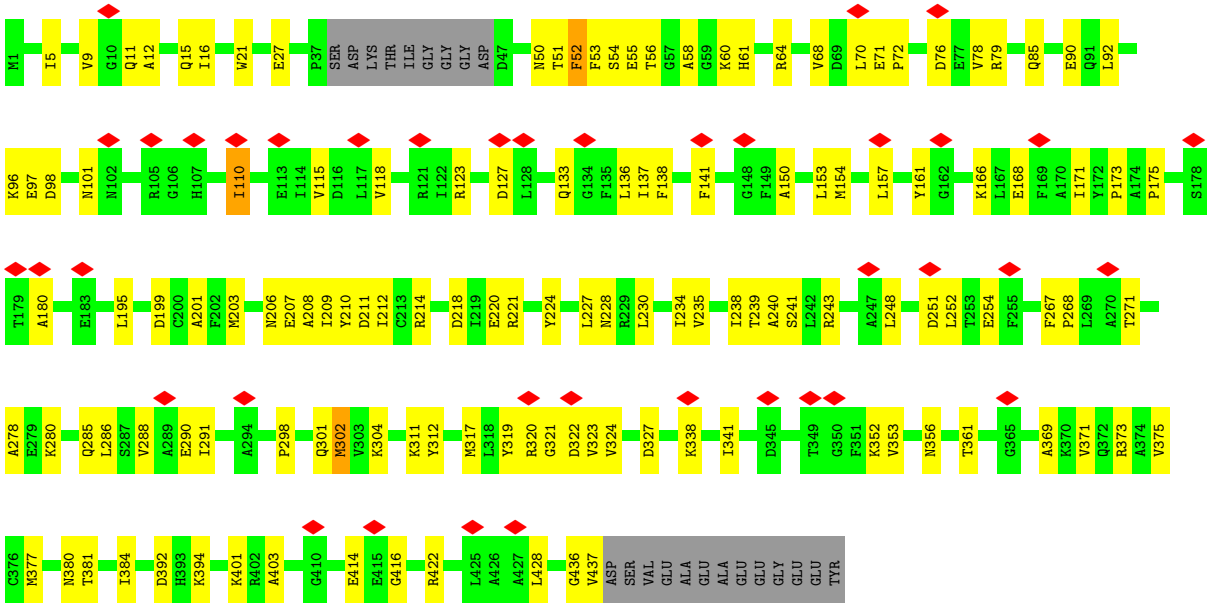






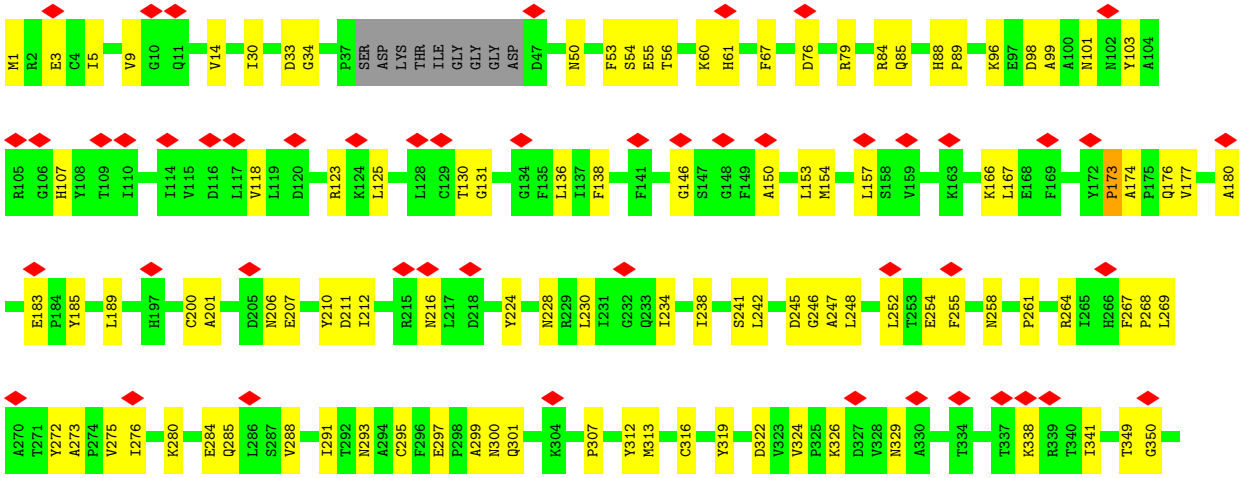
• Molecule 8: Tubulin alpha-3 chain

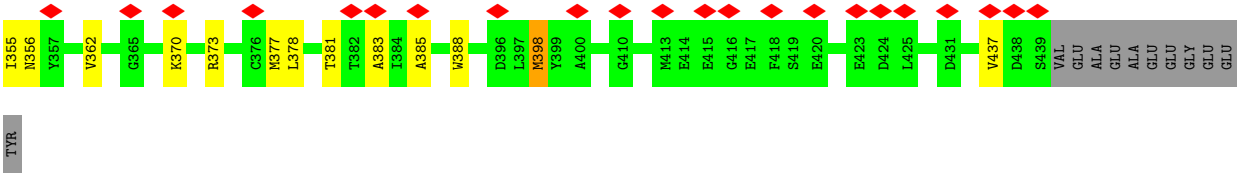
Chain QI:



• Molecule 8: Tubulin alpha-3 chain

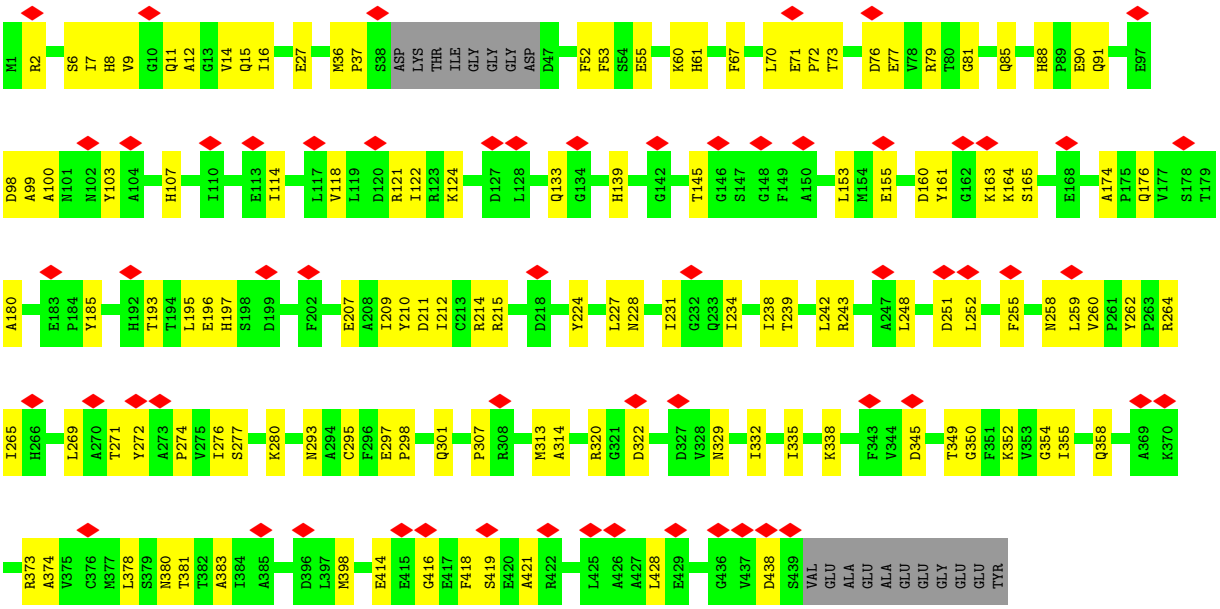
Chain QK:





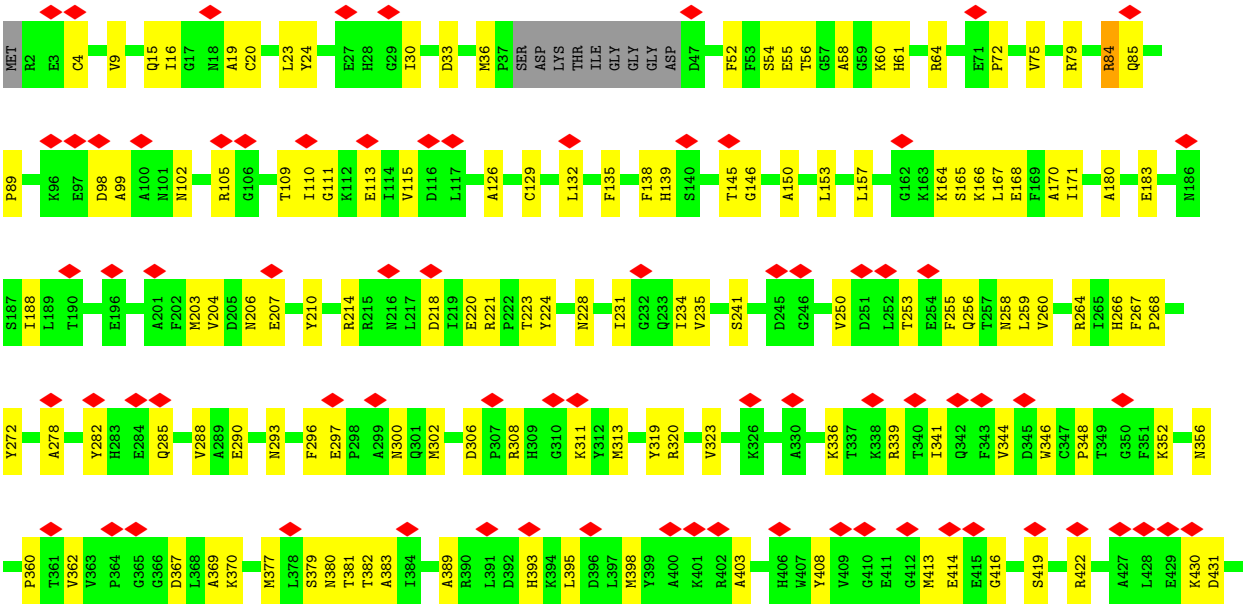
• Molecule 8: Tubulin alpha-3 chain

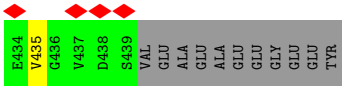
Chain QM:



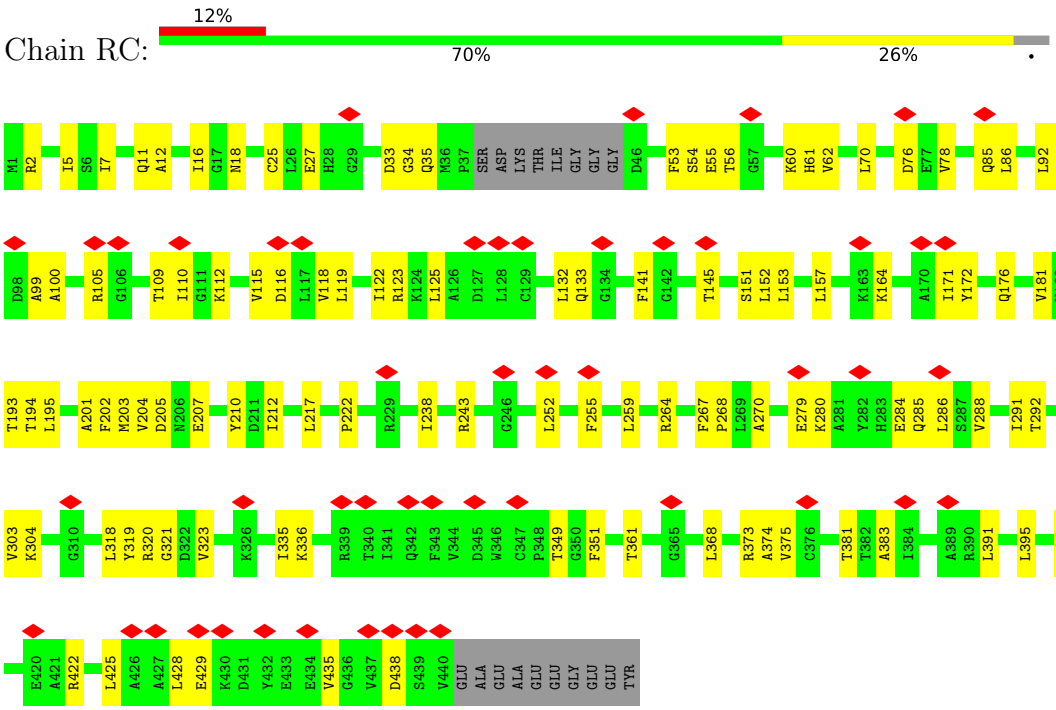
• Molecule 8: Tubulin alpha-3 chain

Chain RA:

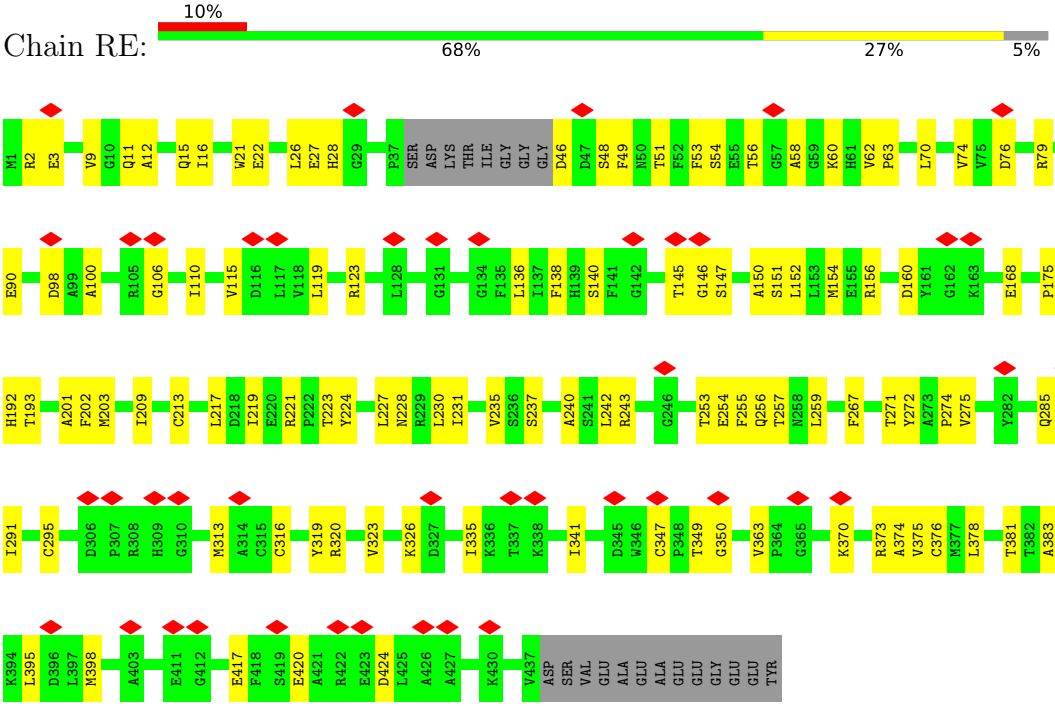




• Molecule 8: Tubulin alpha-3 chain

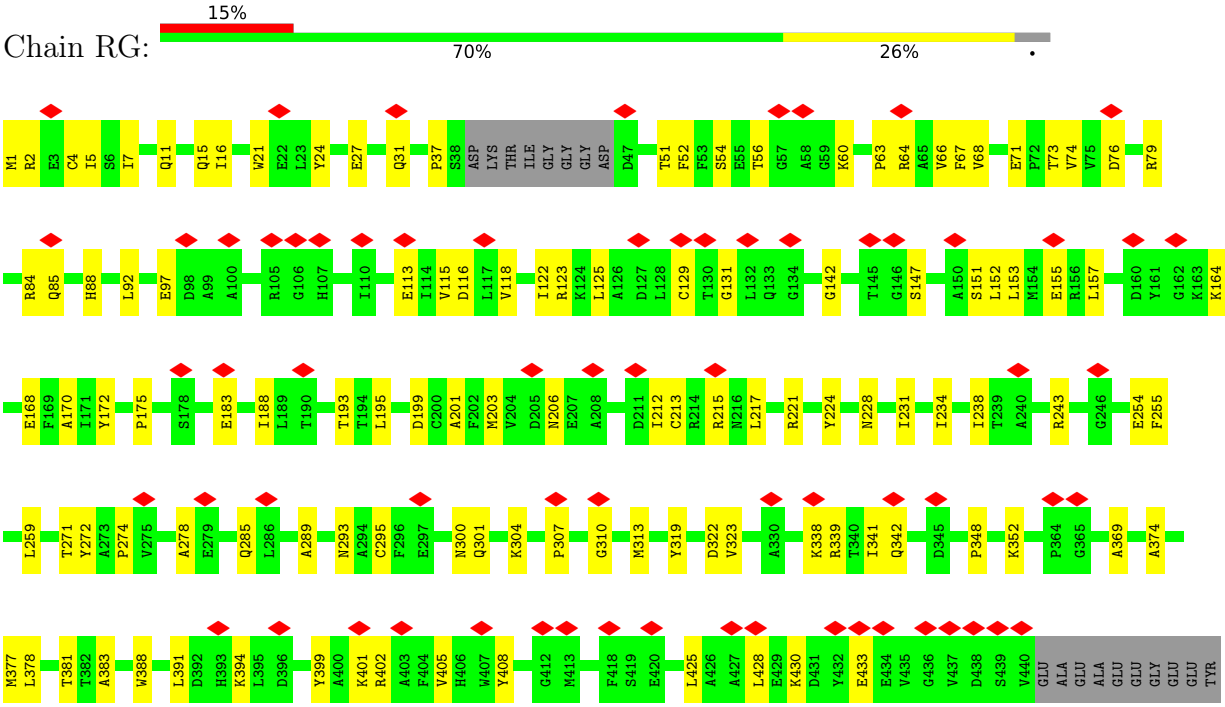


• Molecule 8: Tubulin alpha-3 chain



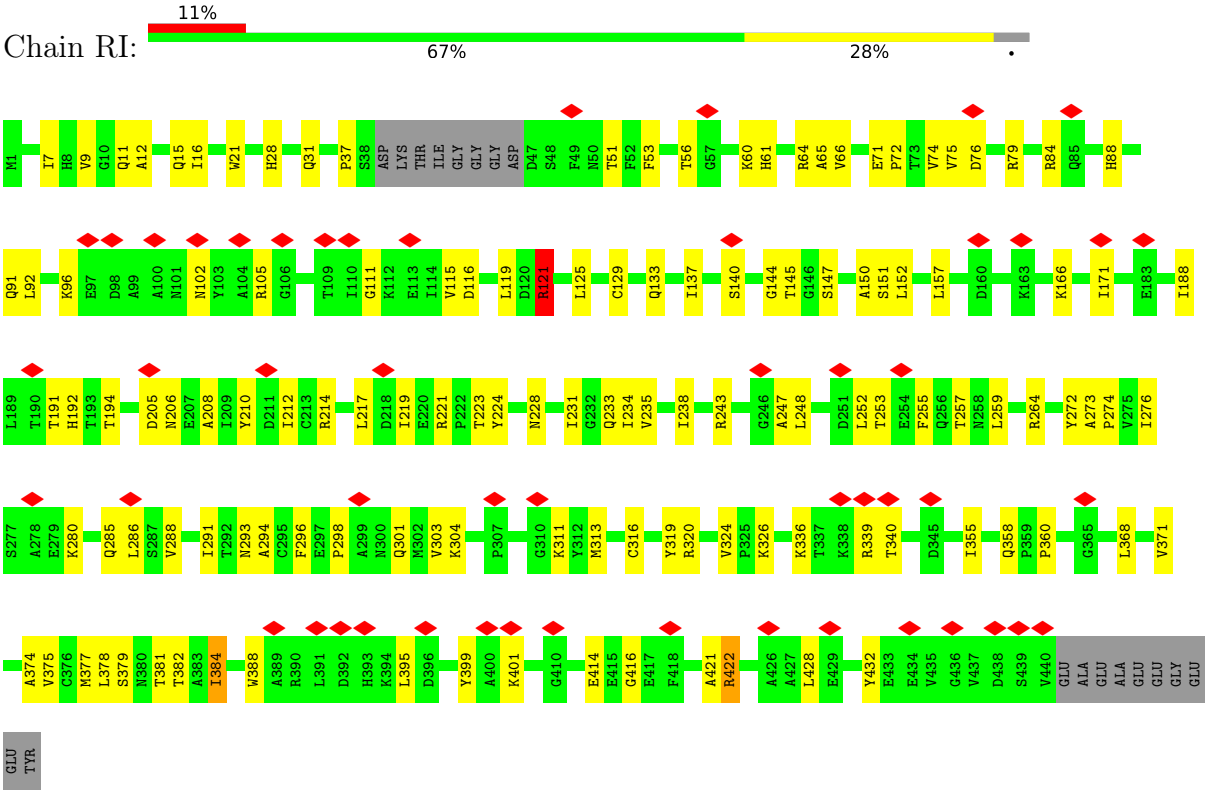
• Molecule 8: Tubulin alpha-3 chain

Chain RG:



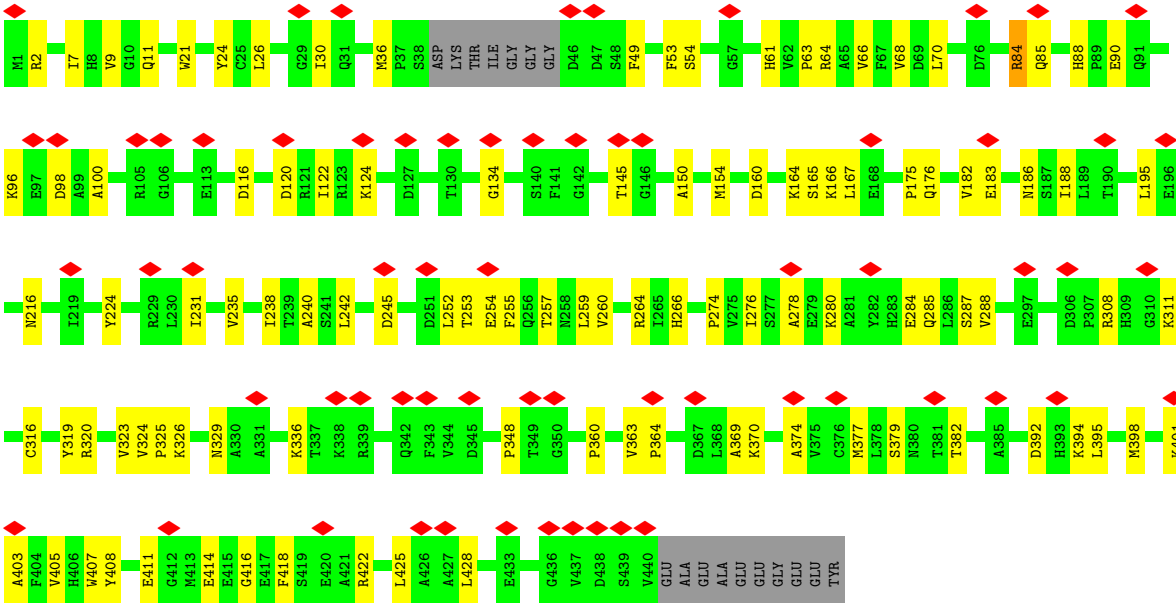
• Molecule 8: Tubulin alpha-3 chain

Chain RI:



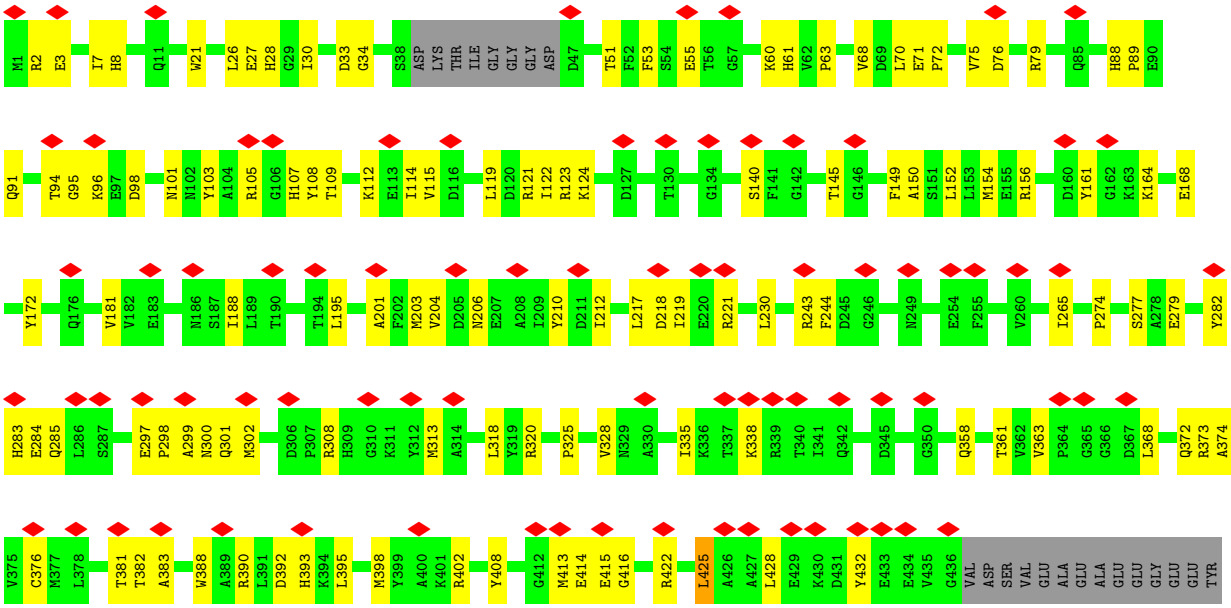
• Molecule 8: Tubulin alpha-3 chain

Chain RK:



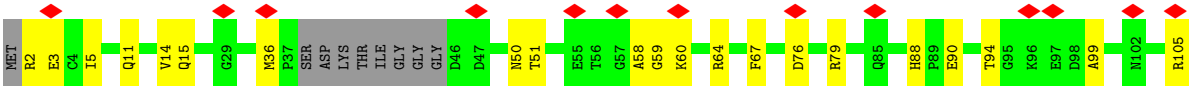
• Molecule 8: Tubulin alpha-3 chain

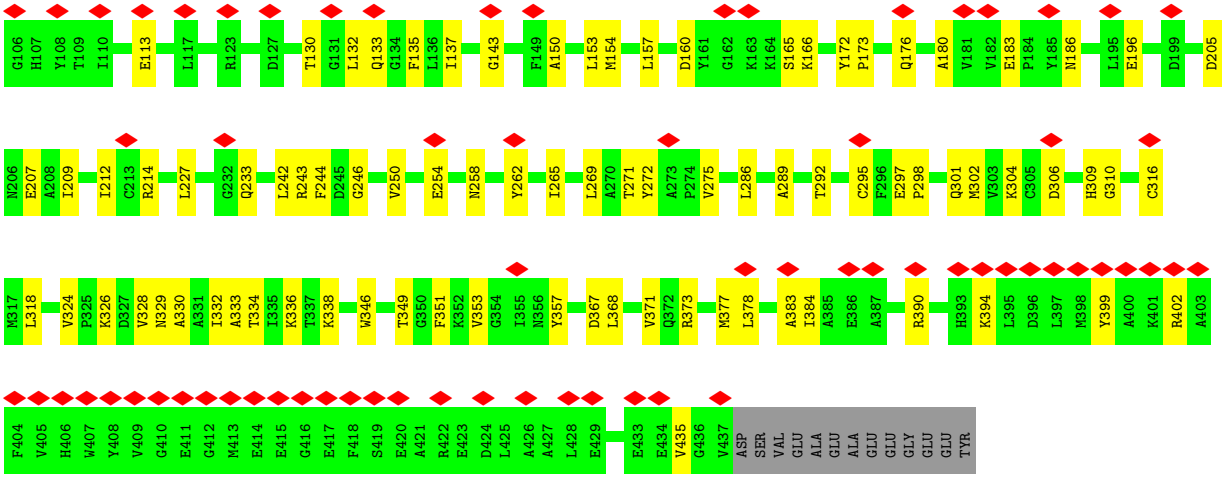
Chain RM:



• Molecule 8: Tubulin alpha-3 chain

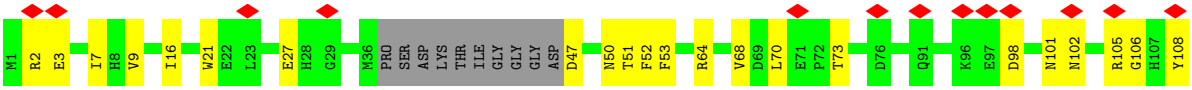
Chain SA:

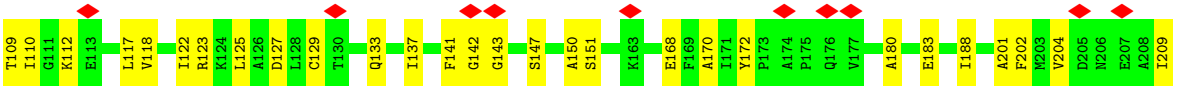


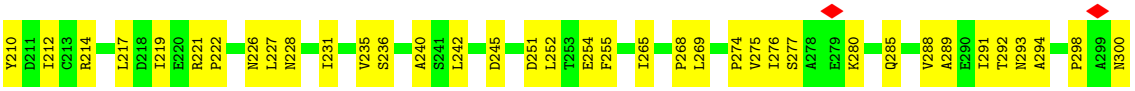


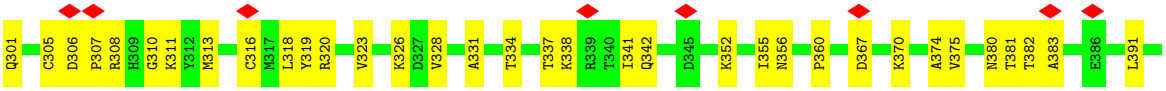
• Molecule 8: Tubulin alpha-3 chain

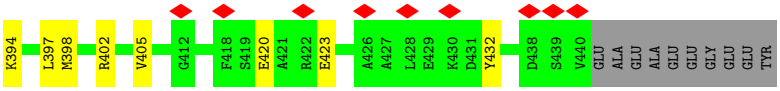
Chain SC:





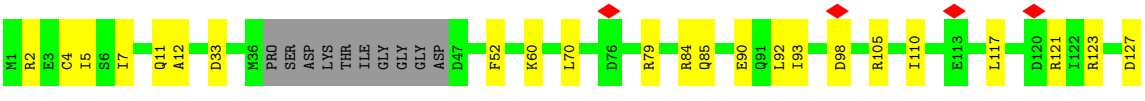


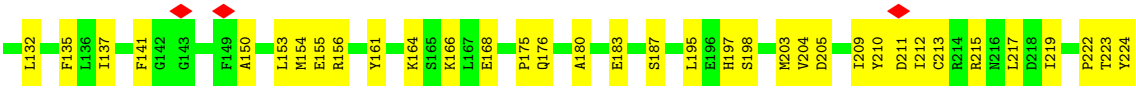




• Molecule 8: Tubulin alpha-3 chain

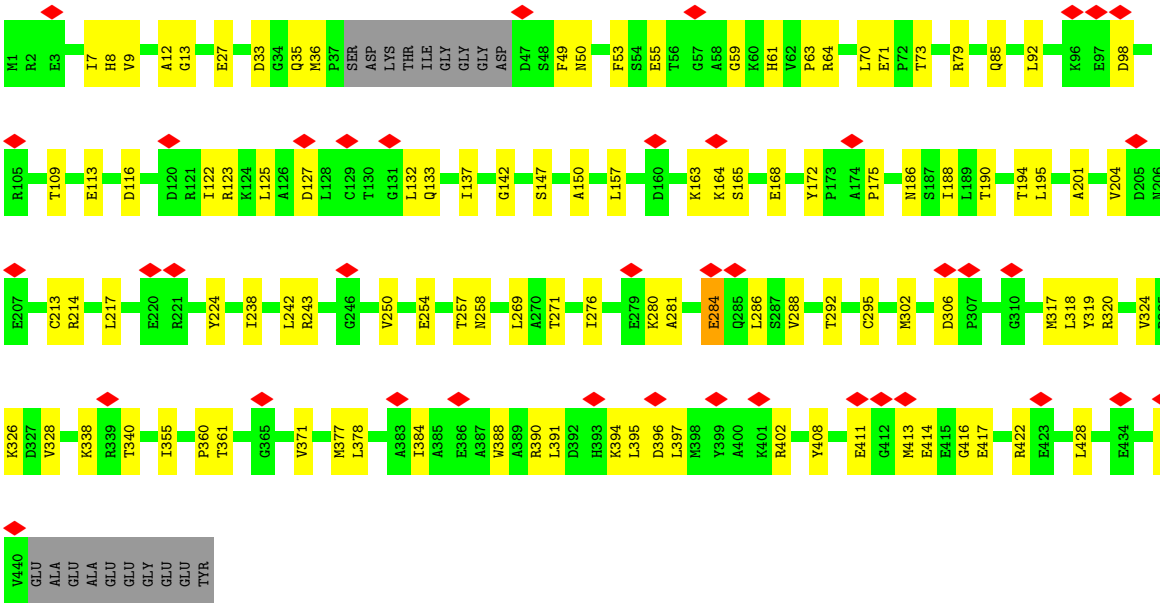
Chain SE:





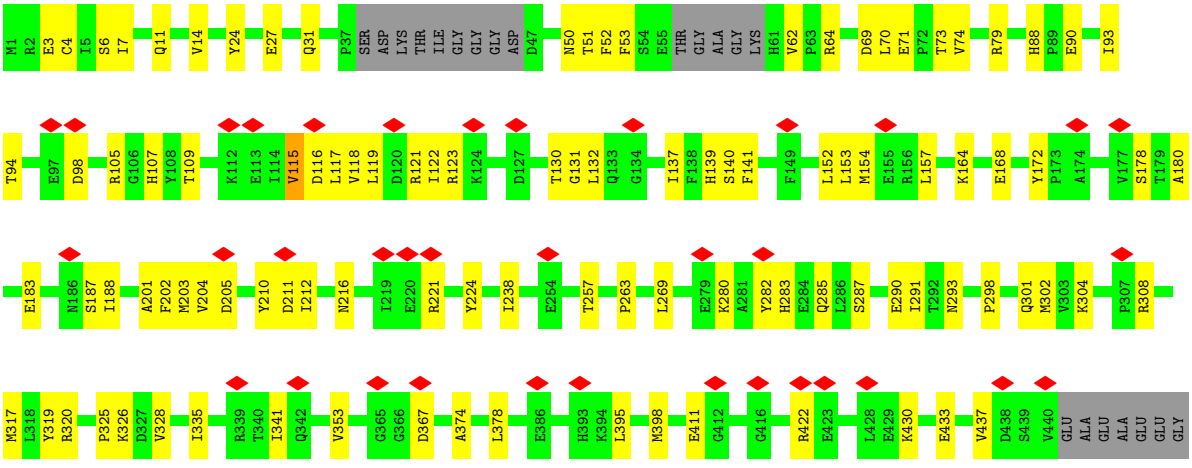
• Molecule 8: Tubulin alpha-3 chain

Chain SG:



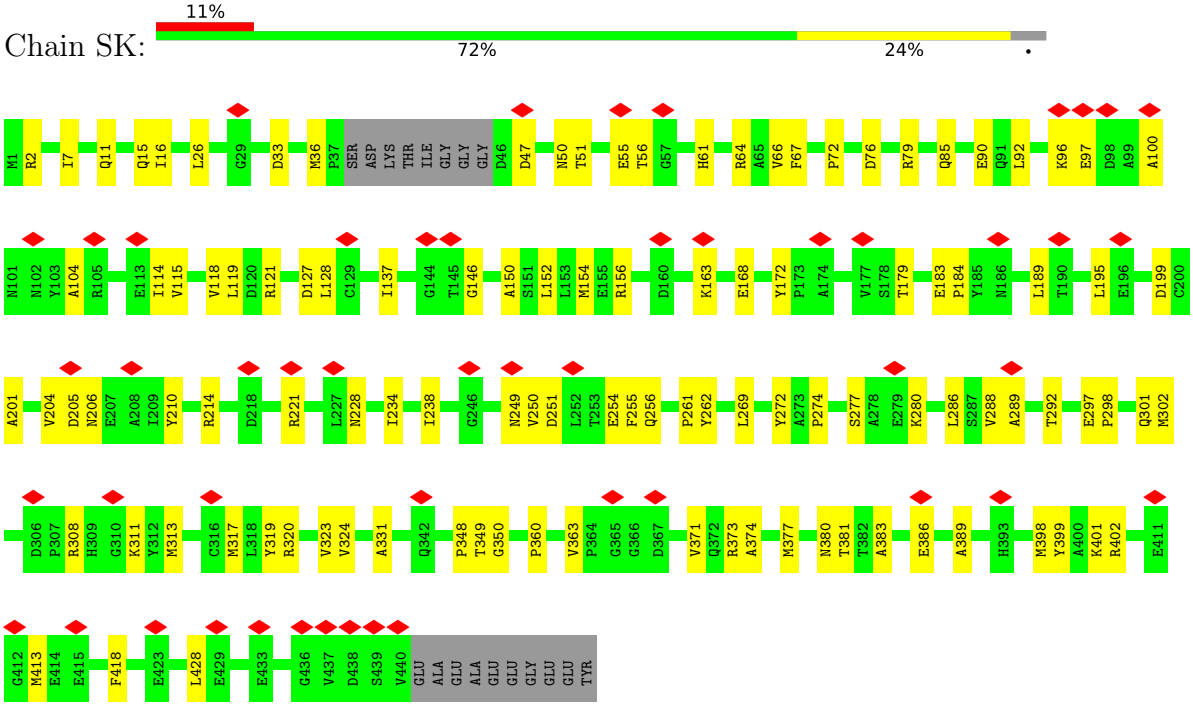
• Molecule 8: Tubulin alpha-3 chain

Chain SI:



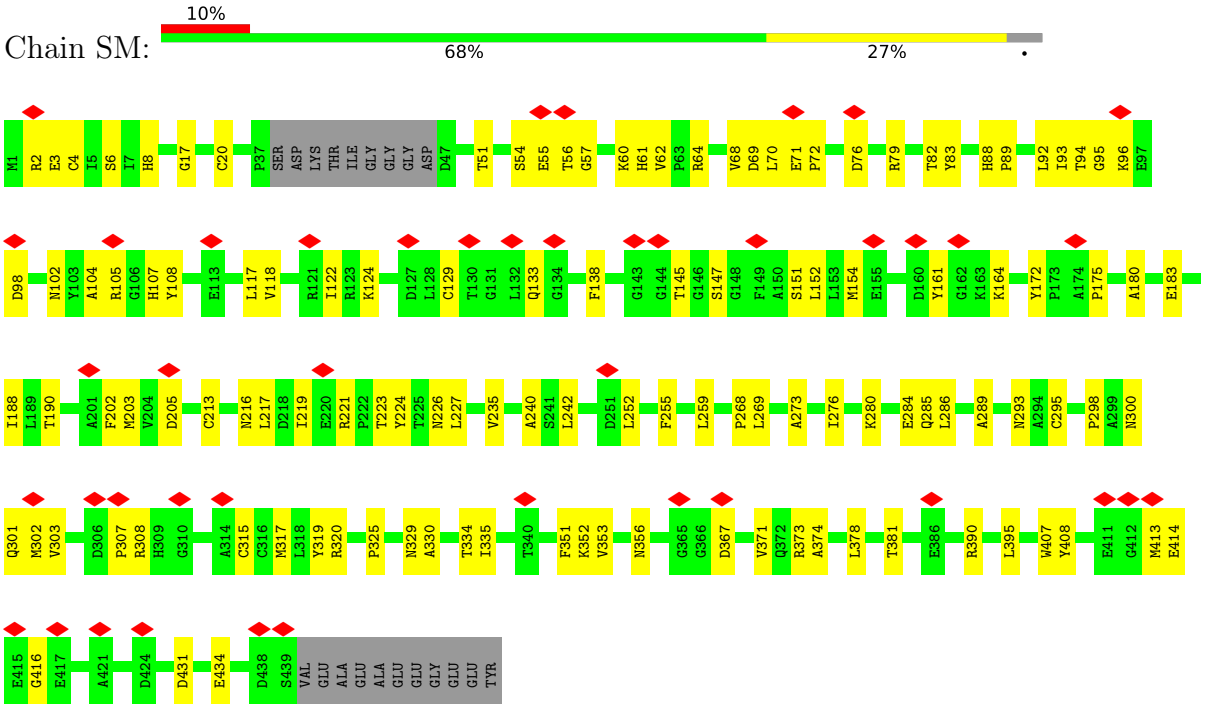
• Molecule 8: Tubulin alpha-3 chain

Chain SK:



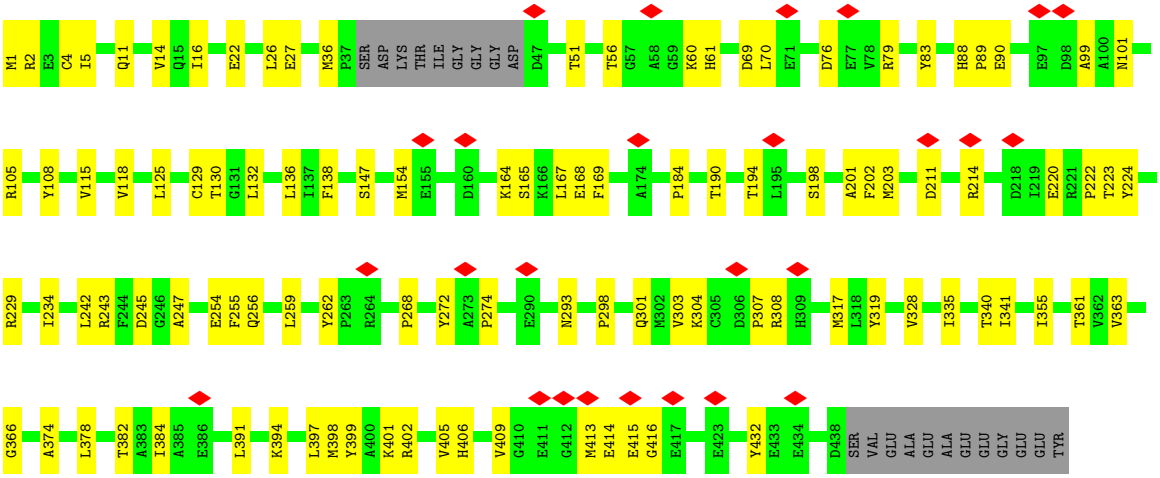
• Molecule 8: Tubulin alpha-3 chain

Chain SM:



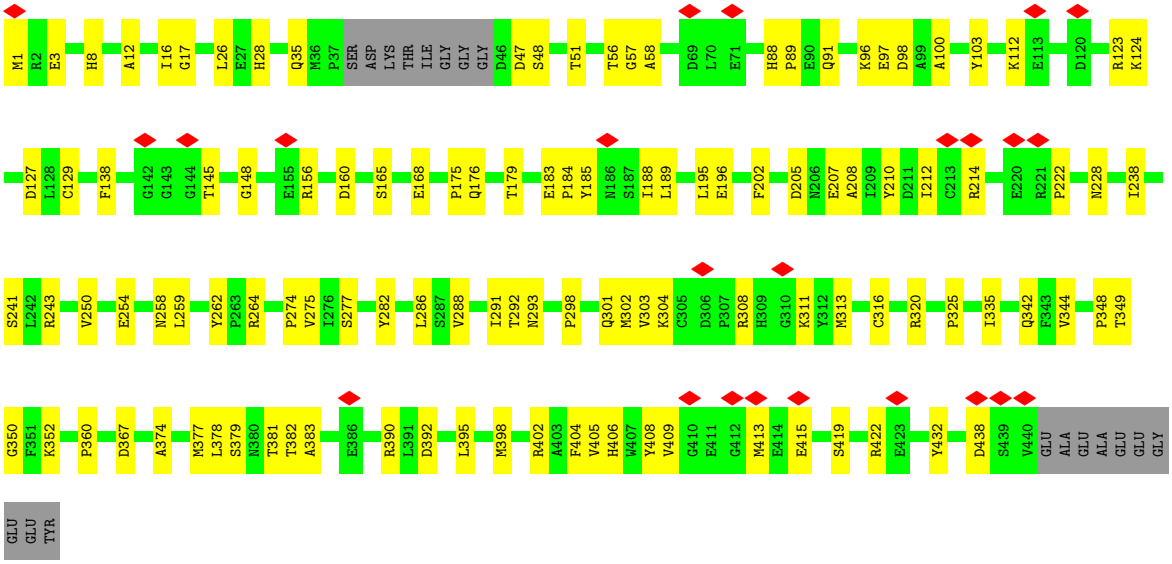
• Molecule 8: Tubulin alpha-3 chain

Chain TC:



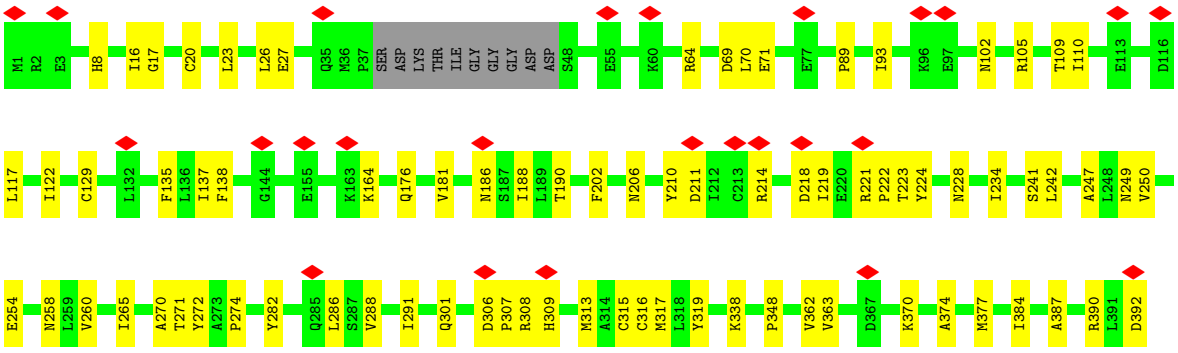
• Molecule 8: Tubulin alpha-3 chain

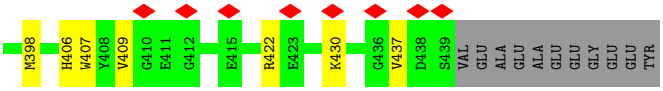
Chain TE:



• Molecule 8: Tubulin alpha-3 chain

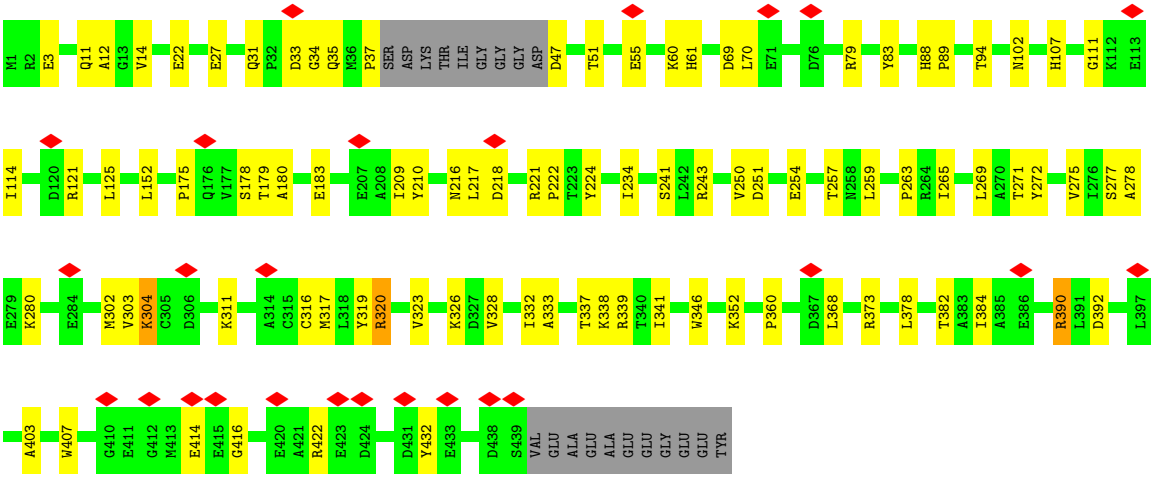
Chain TG:





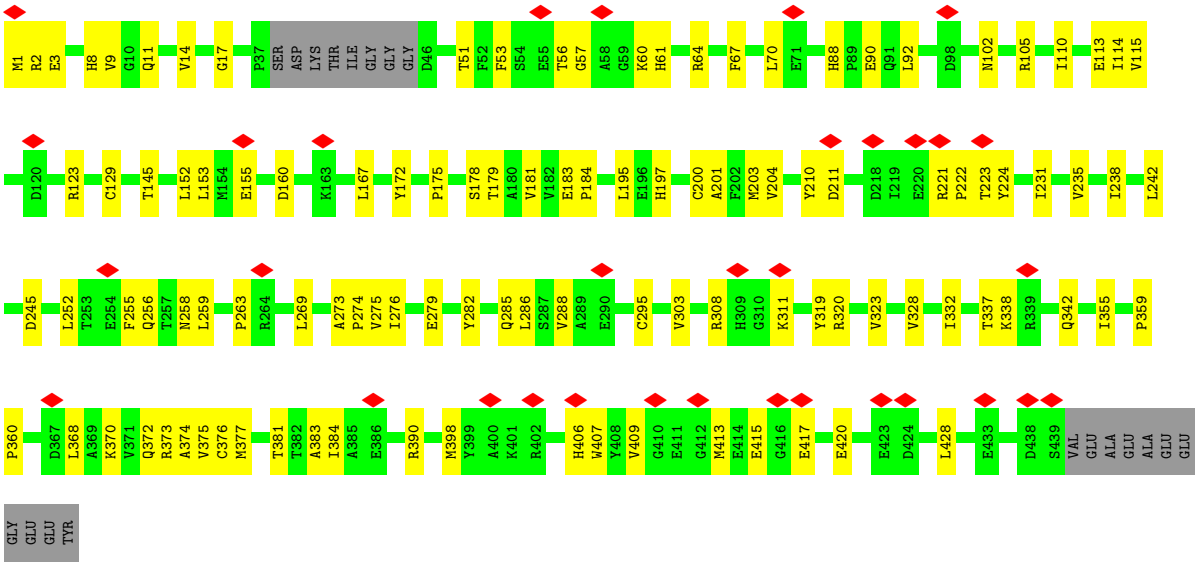
• Molecule 8: Tubulin alpha-3 chain

Chain TI:



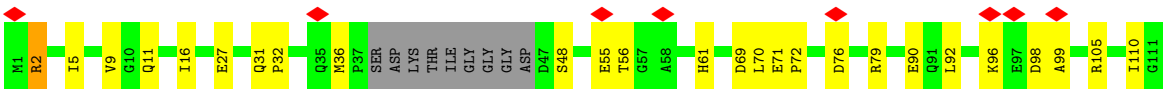
• Molecule 8: Tubulin alpha-3 chain

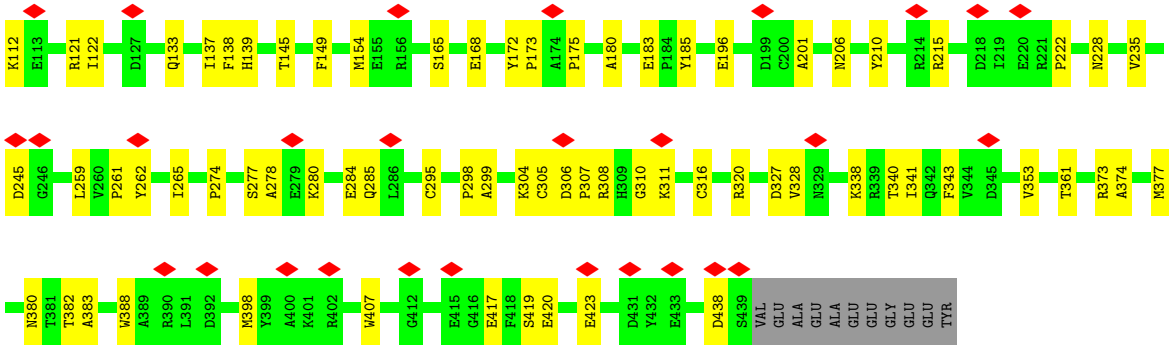
Chain TK:



• Molecule 8: Tubulin alpha-3 chain

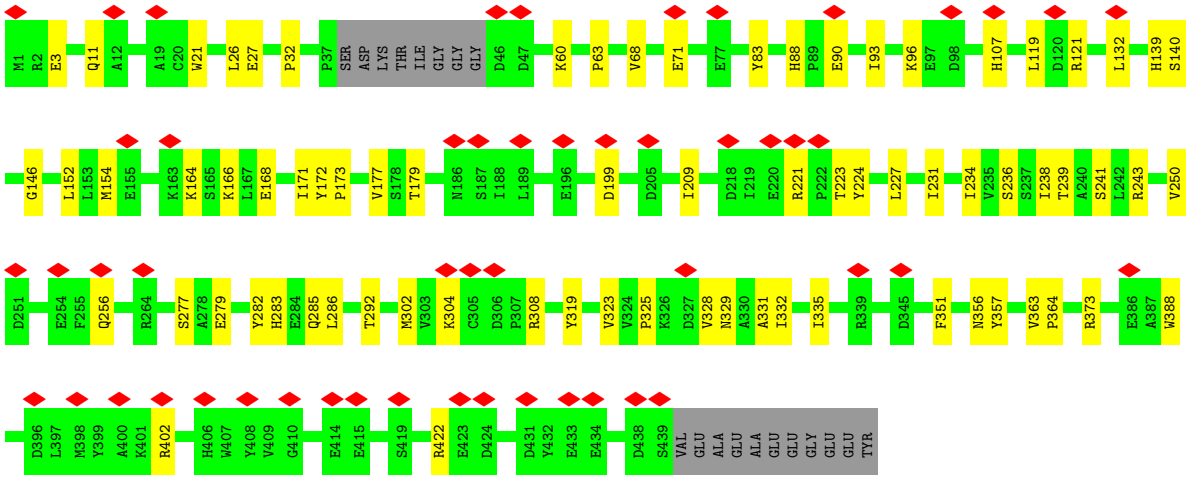
Chain TM:





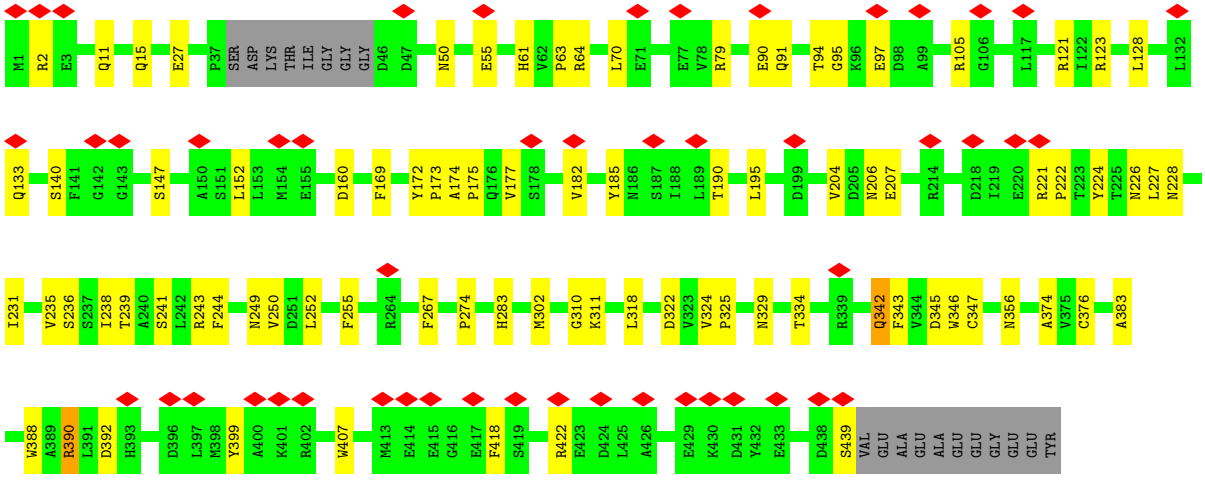
• Molecule 8: Tubulin alpha-3 chain

Chain UC:



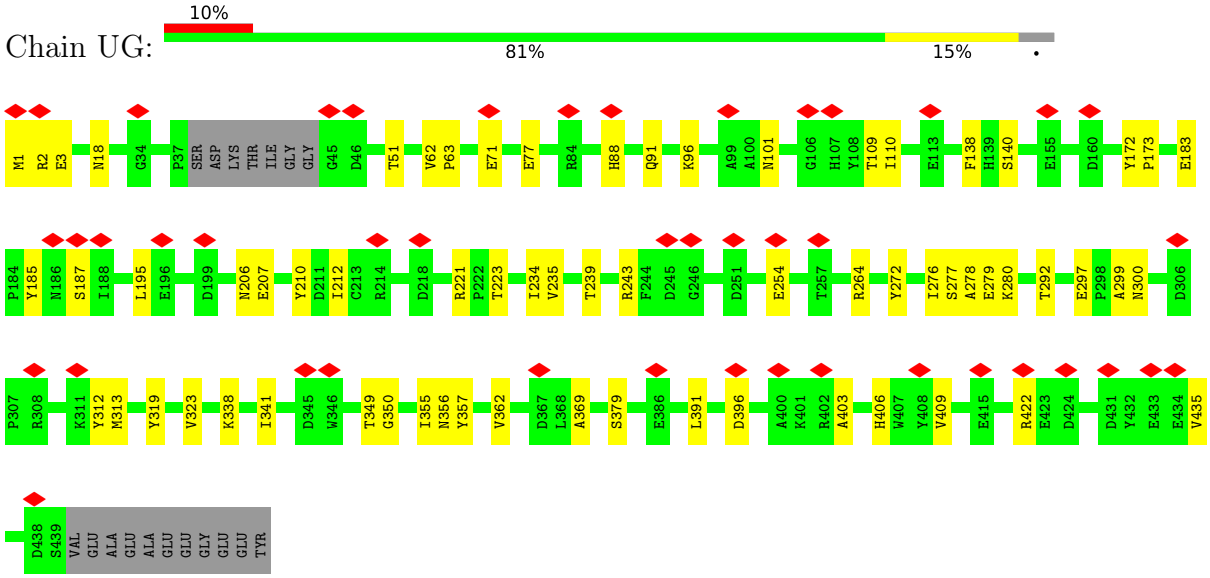
• Molecule 8: Tubulin alpha-3 chain

Chain UE:



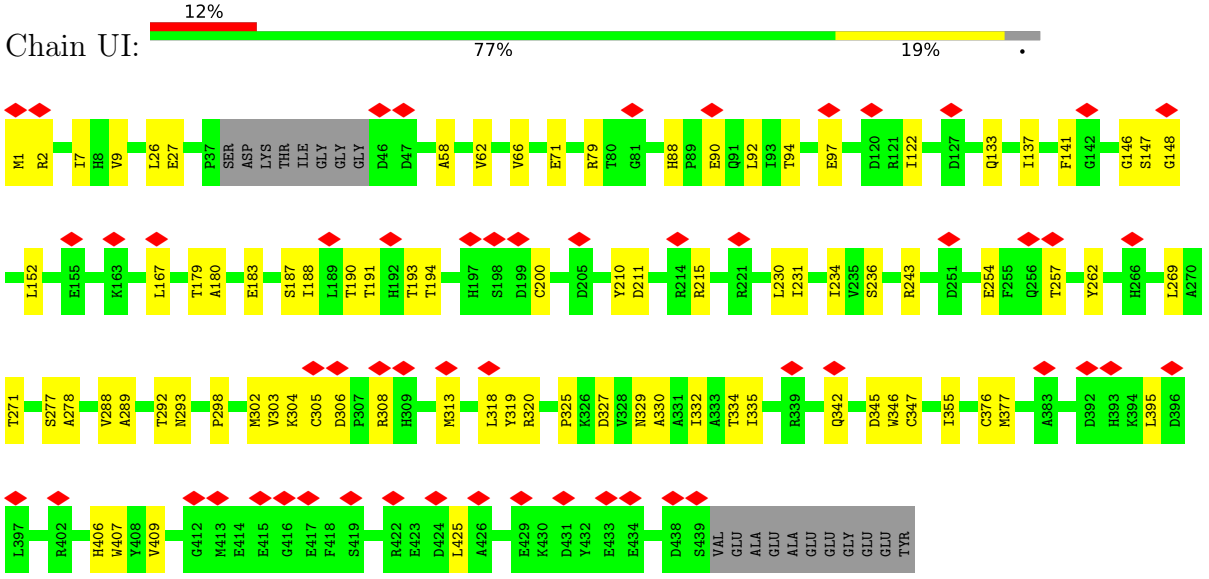
• Molecule 8: Tubulin alpha-3 chain

Chain UG:



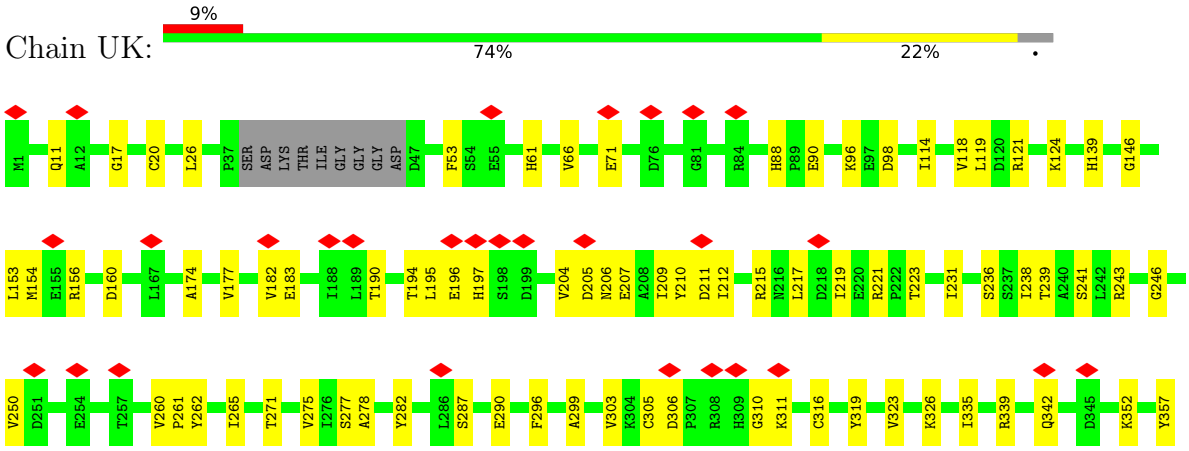
• Molecule 8: Tubulin alpha-3 chain

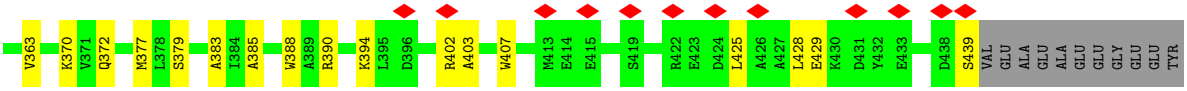
Chain UI:



• Molecule 8: Tubulin alpha-3 chain

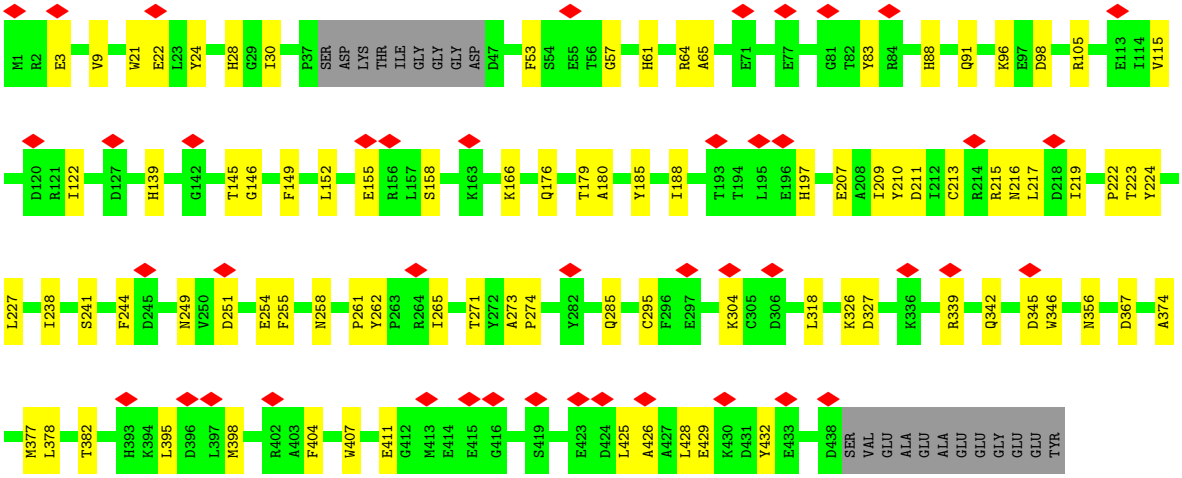
Chain UK:





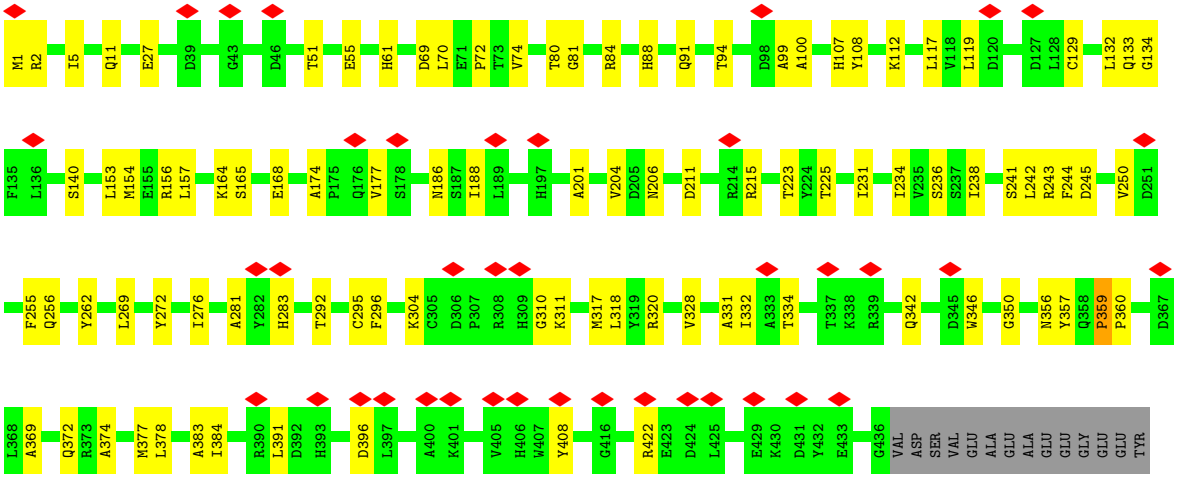
• Molecule 8: Tubulin alpha-3 chain

Chain UM:



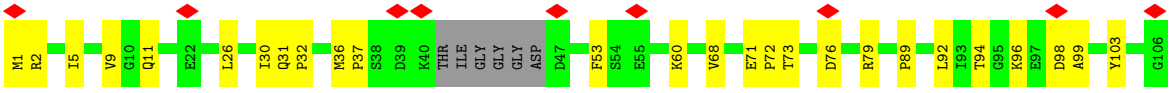
• Molecule 8: Tubulin alpha-3 chain

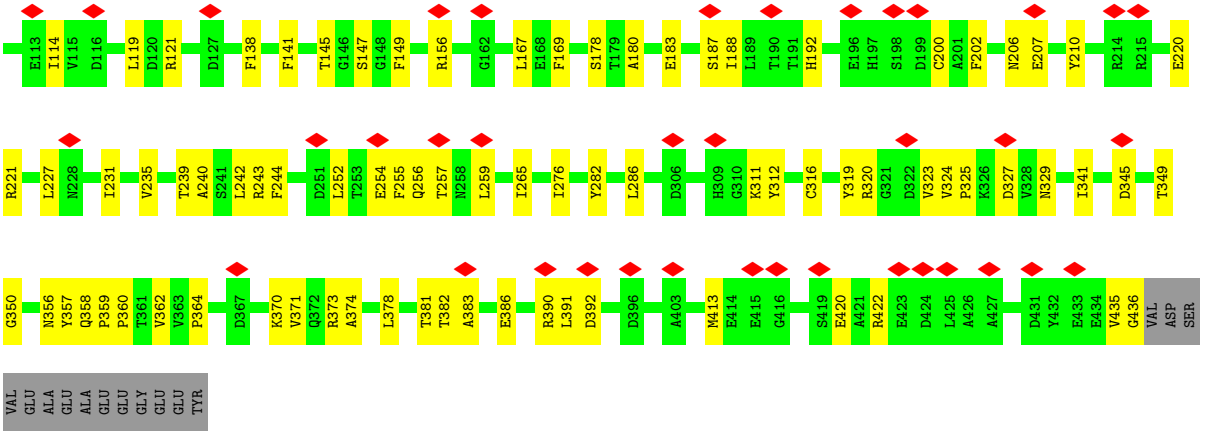
Chain VC:



• Molecule 8: Tubulin alpha-3 chain

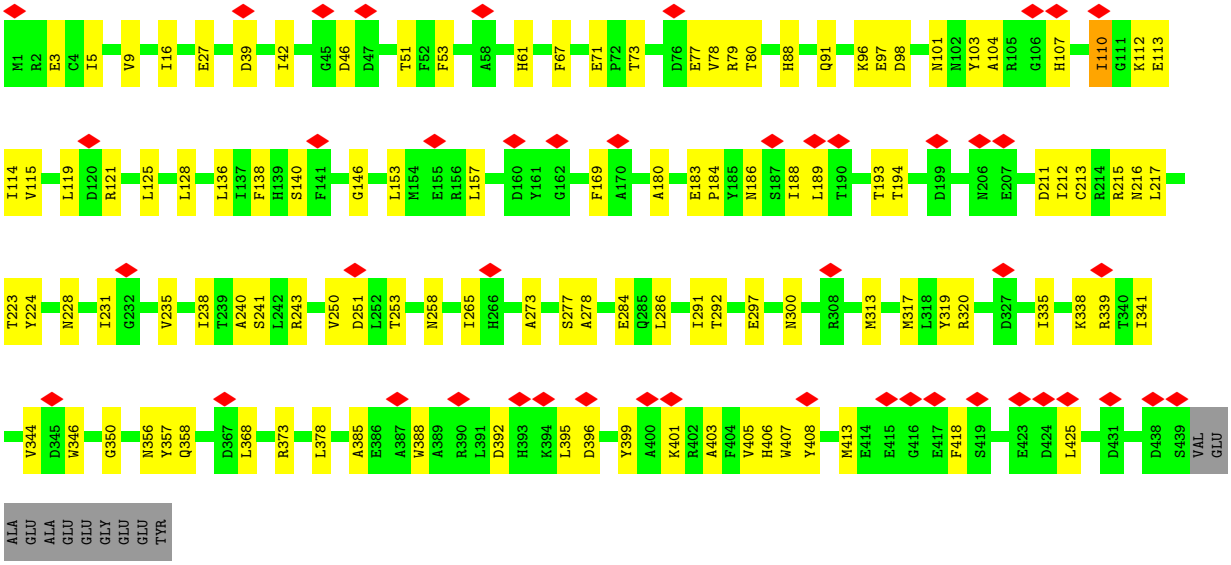
Chain VE:





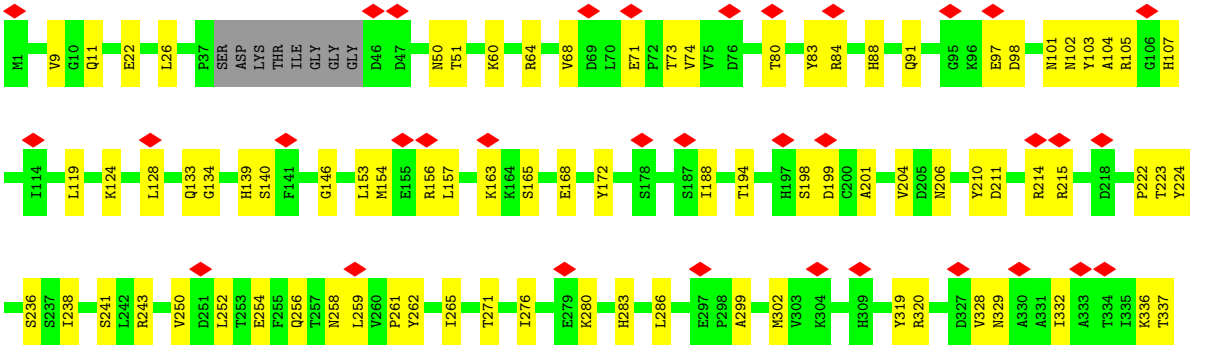
• Molecule 8: Tubulin alpha-3 chain

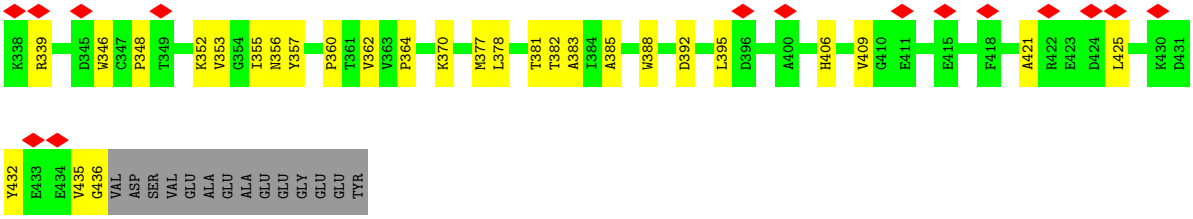
Chain VG:



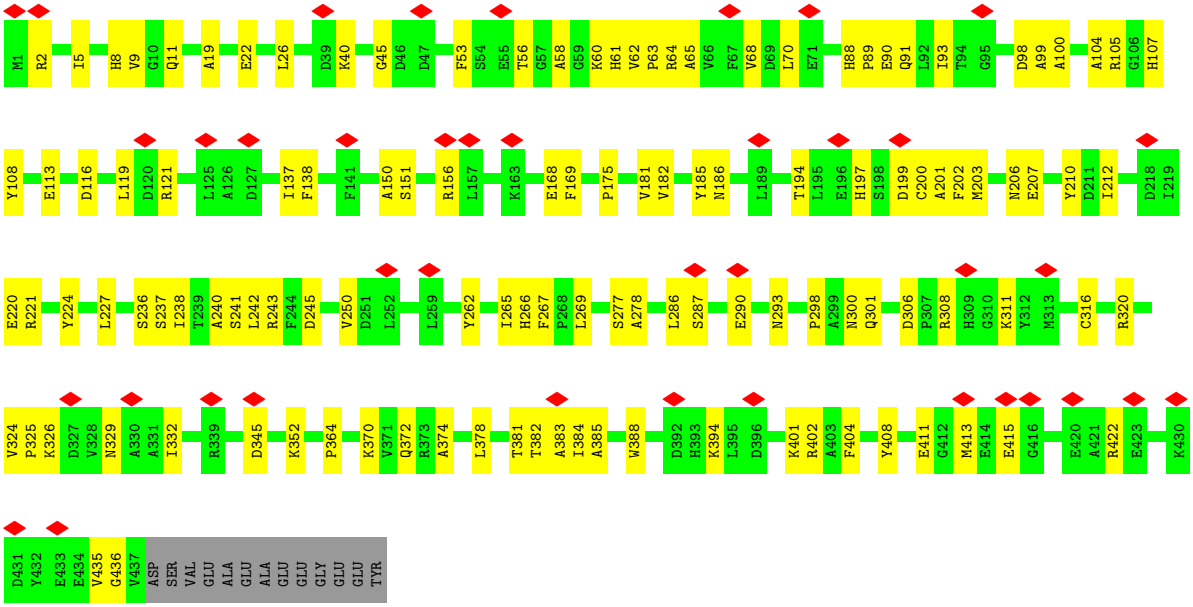
• Molecule 8: Tubulin alpha-3 chain

Chain VI:

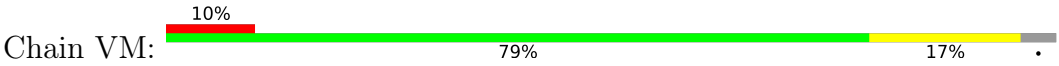


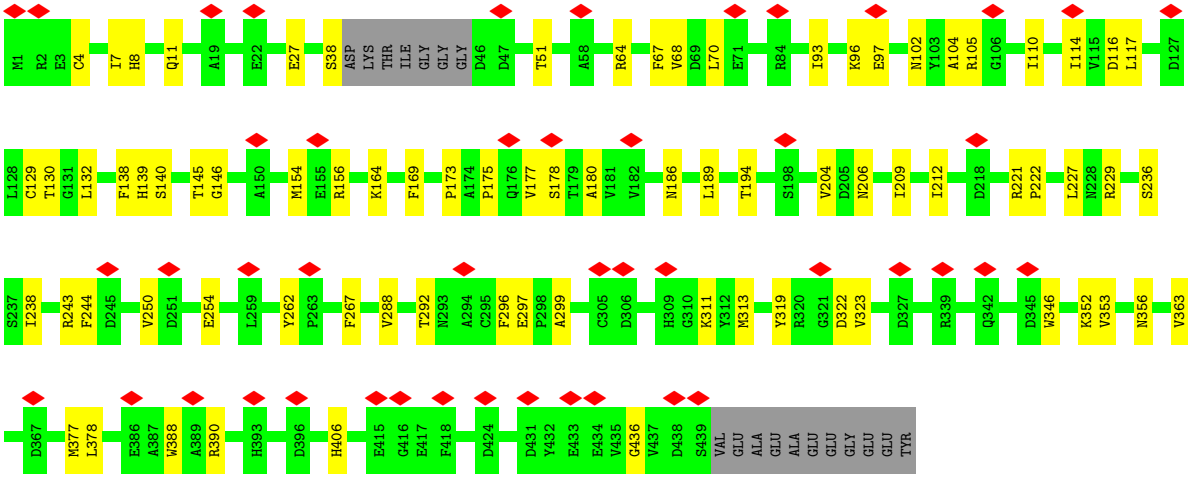


• Molecule 8: Tubulin alpha-3 chain



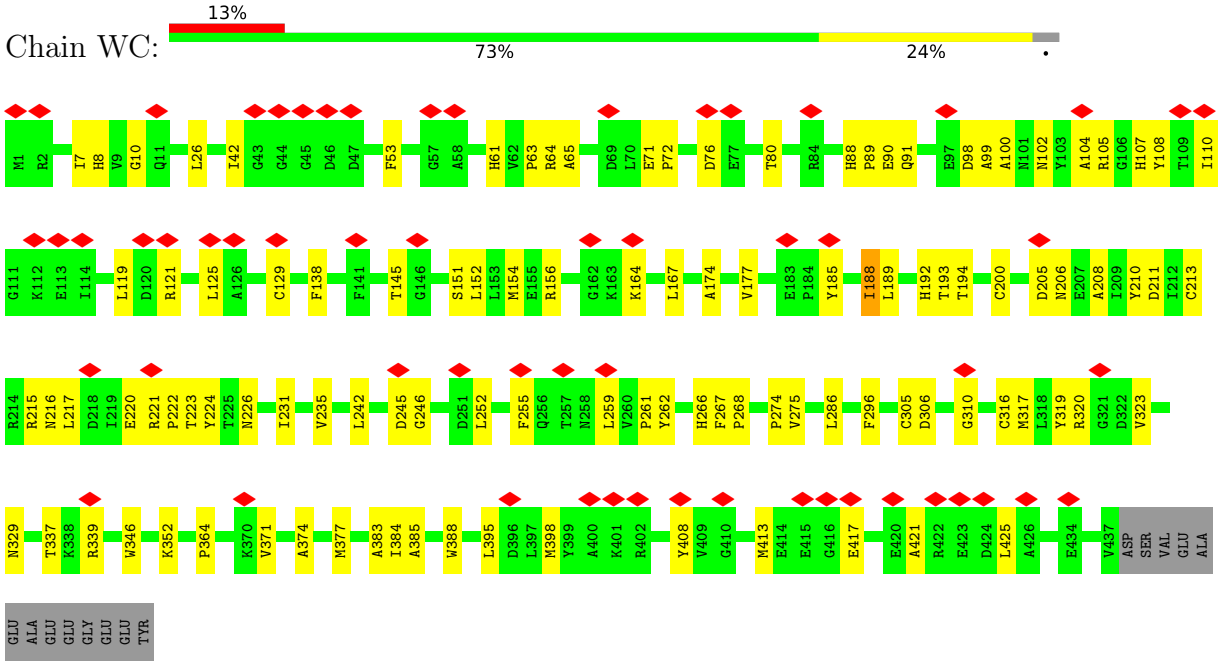
• Molecule 8: Tubulin alpha-3 chain





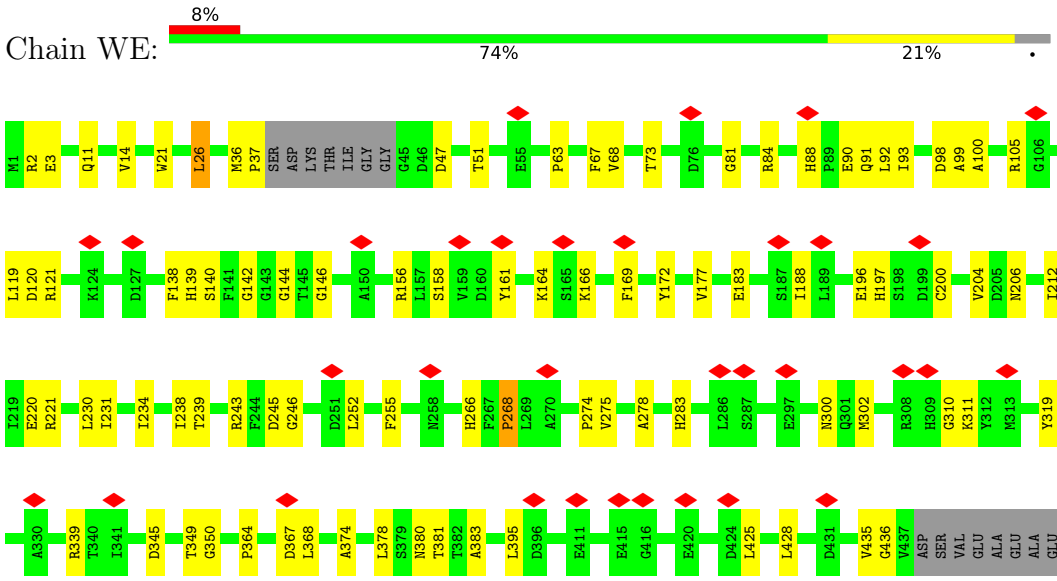
• Molecule 8: Tubulin alpha-3 chain

Chain WC:



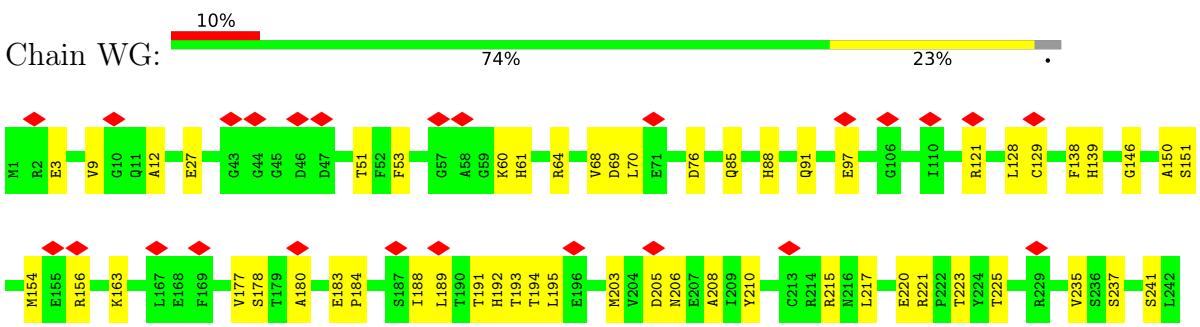
• Molecule 8: Tubulin alpha-3 chain

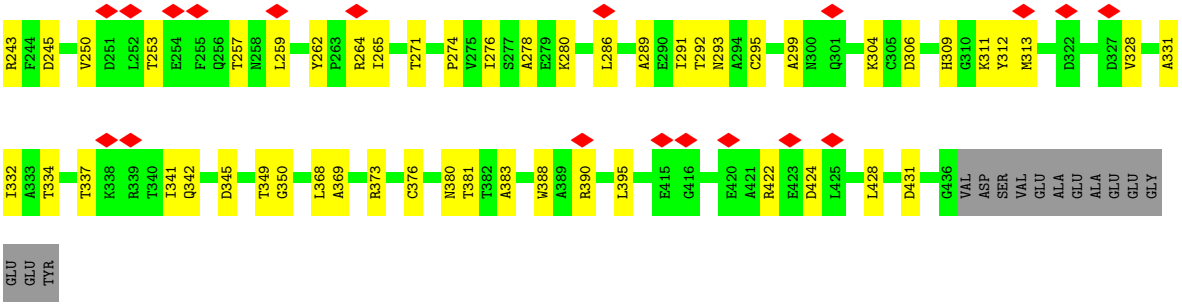
Chain WE:



• Molecule 8: Tubulin alpha-3 chain

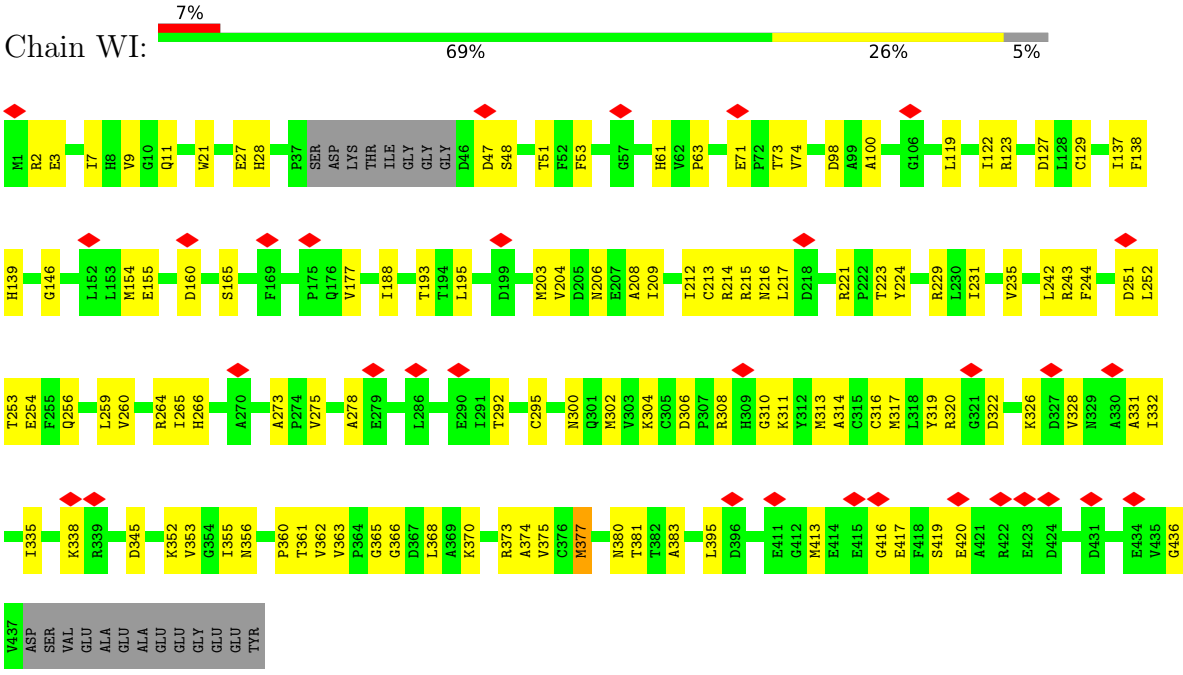
Chain WG:





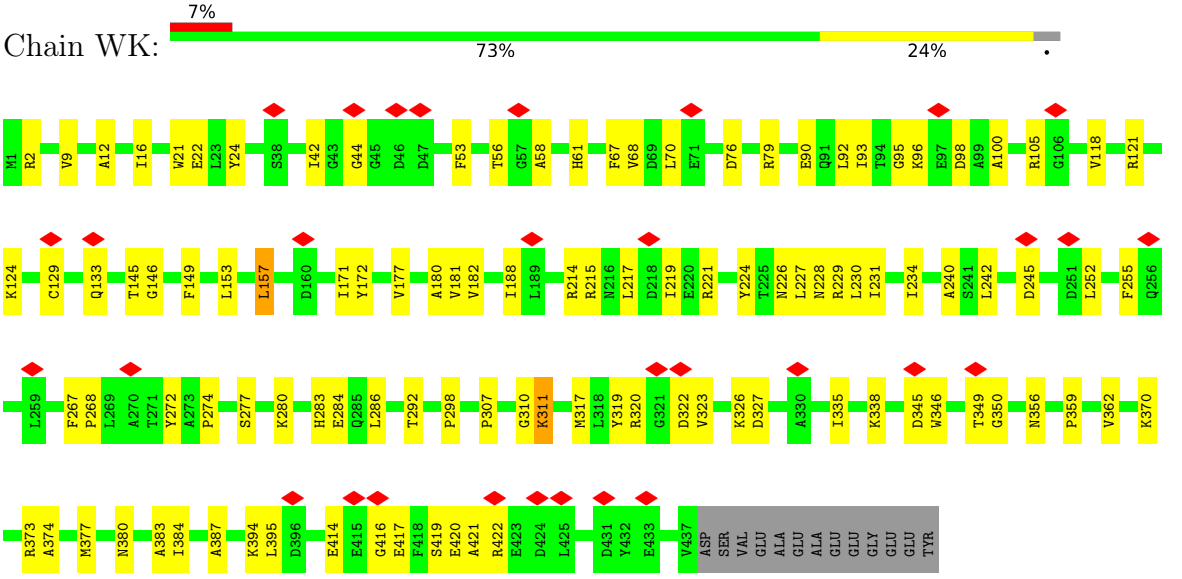
• Molecule 8: Tubulin alpha-3 chain

Chain WI:



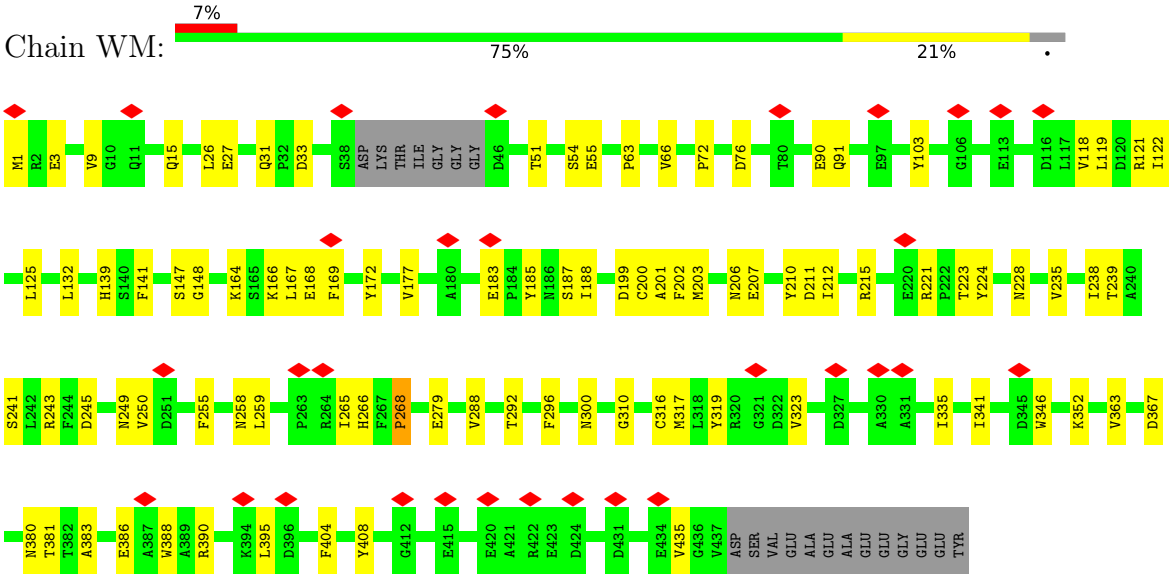
• Molecule 8: Tubulin alpha-3 chain

Chain WK:



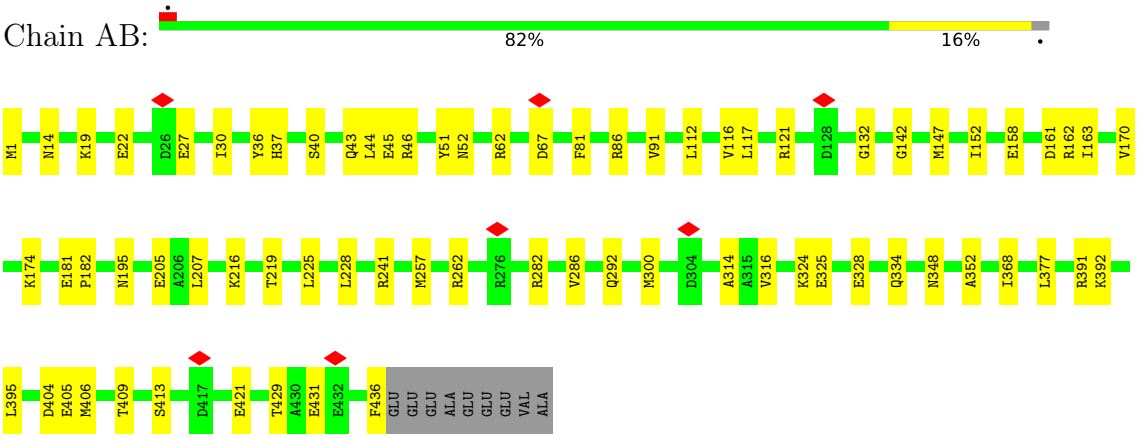
• Molecule 8: Tubulin alpha-3 chain

Chain WM:



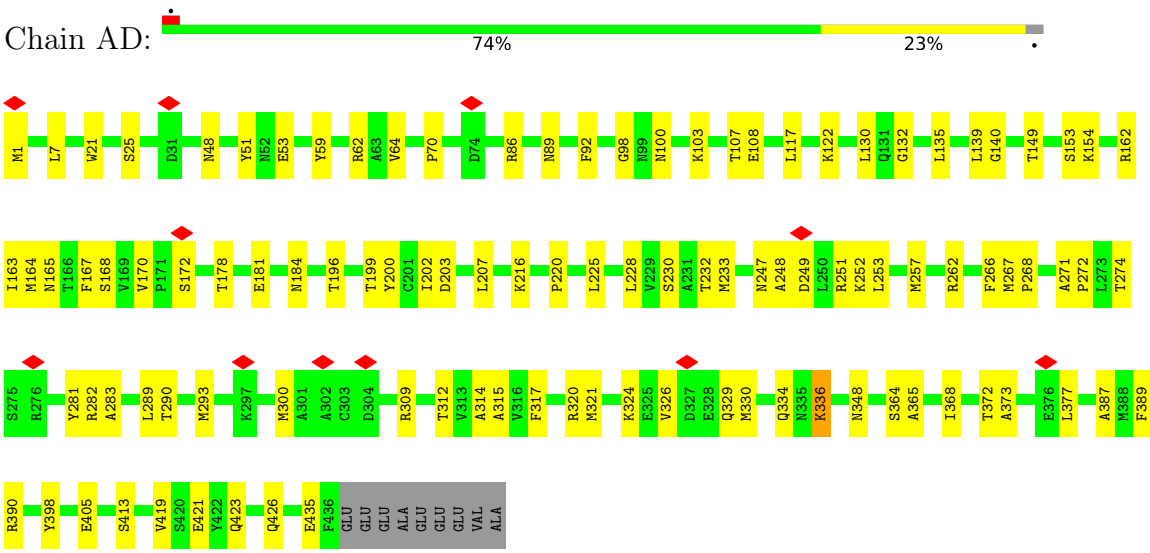
• Molecule 9: Tubulin beta-4B chain

Chain AB:



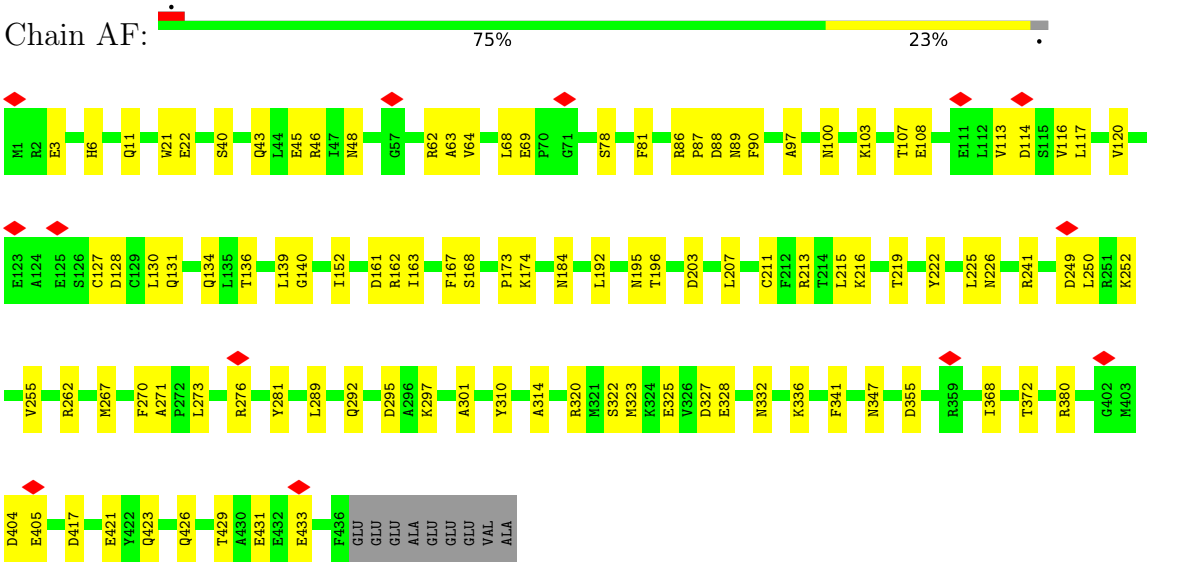
• Molecule 9: Tubulin beta-4B chain

Chain AD:



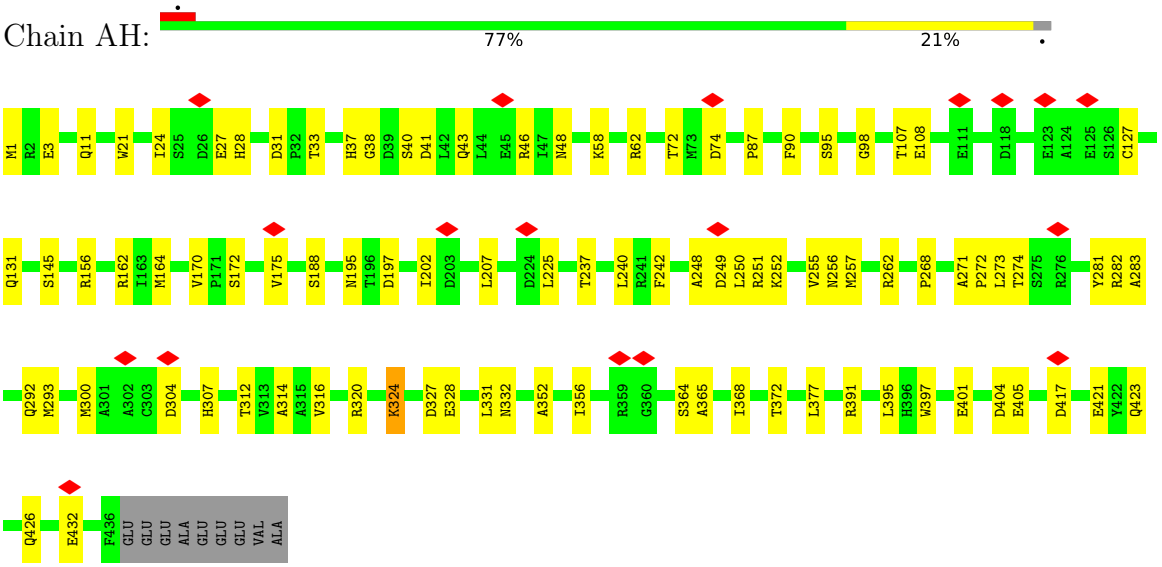
• Molecule 9: Tubulin beta-4B chain

Chain AF:



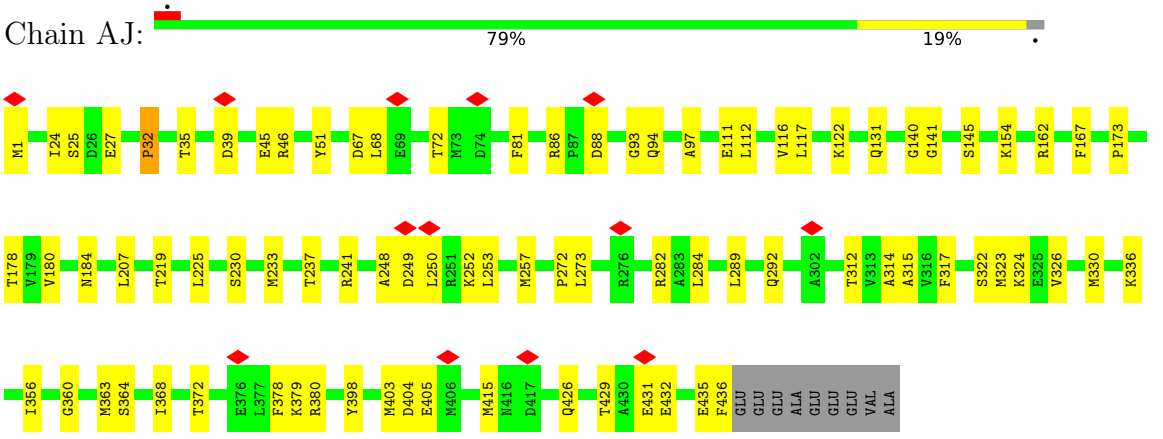
• Molecule 9: Tubulin beta-4B chain

Chain AH:



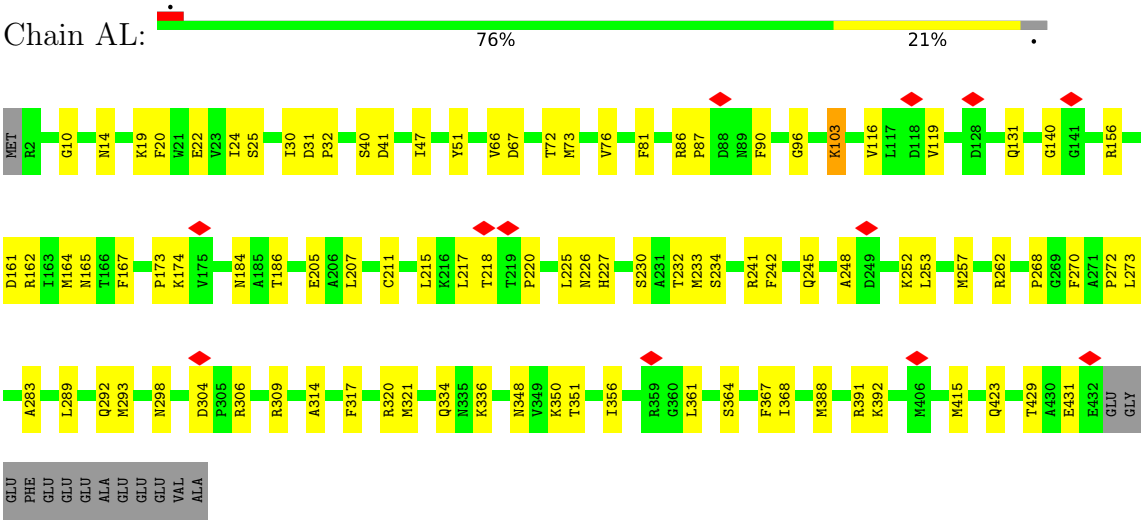
• Molecule 9: Tubulin beta-4B chain

Chain AJ:



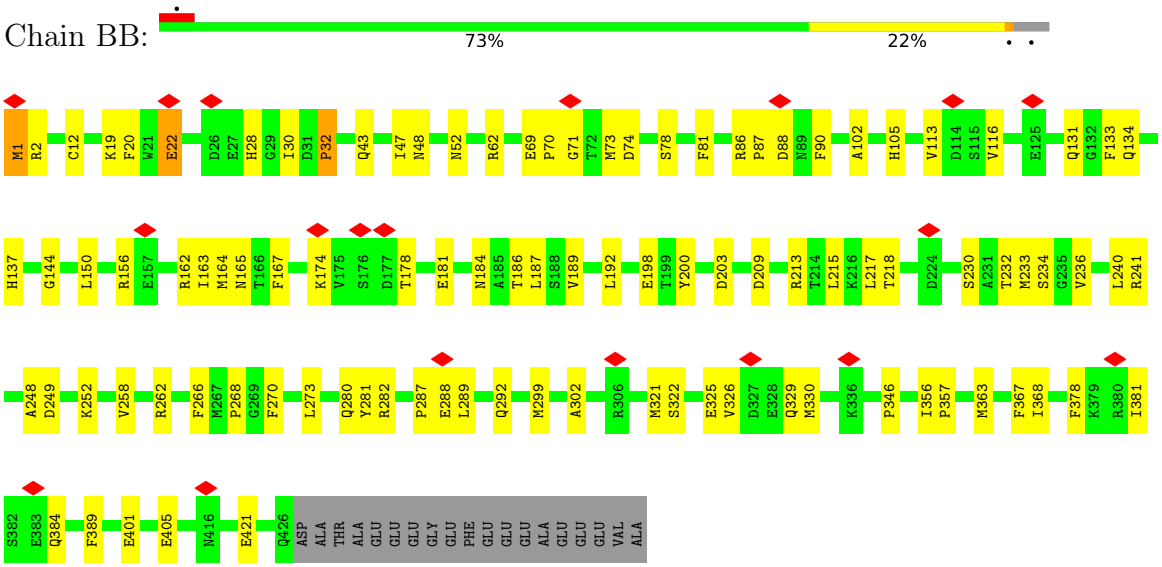
• Molecule 9: Tubulin beta-4B chain

Chain AL:



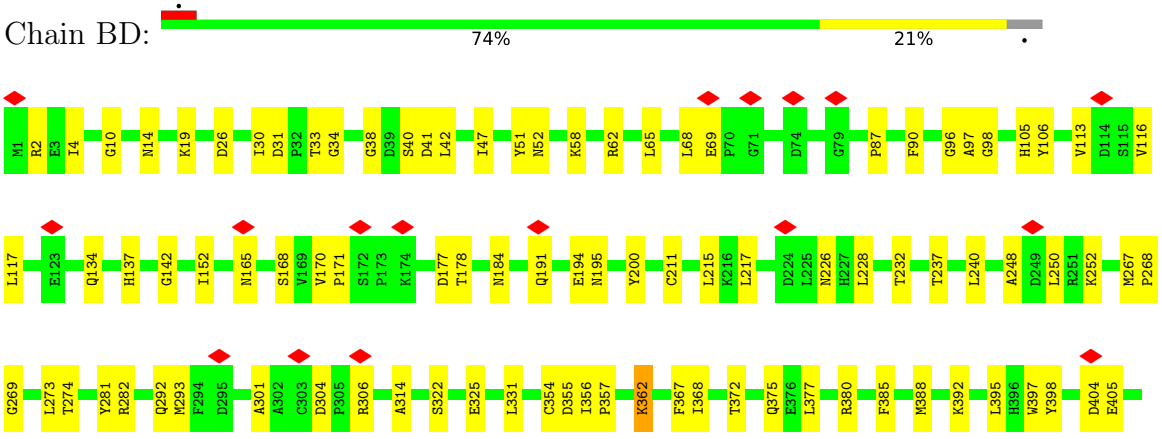
• Molecule 9: Tubulin beta-4B chain

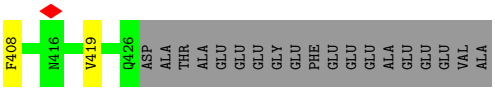
Chain BB:



• Molecule 9: Tubulin beta-4B chain

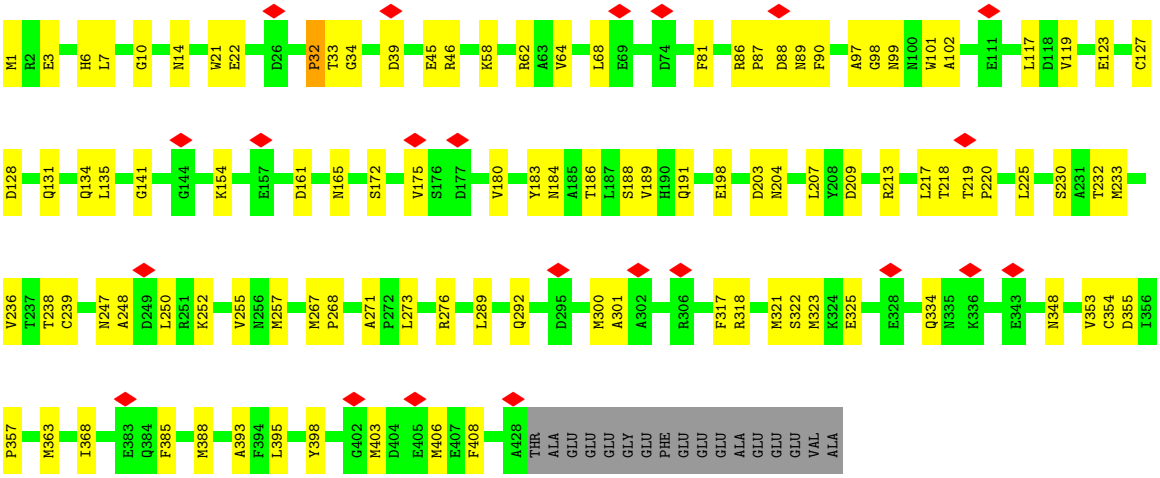
Chain BD:





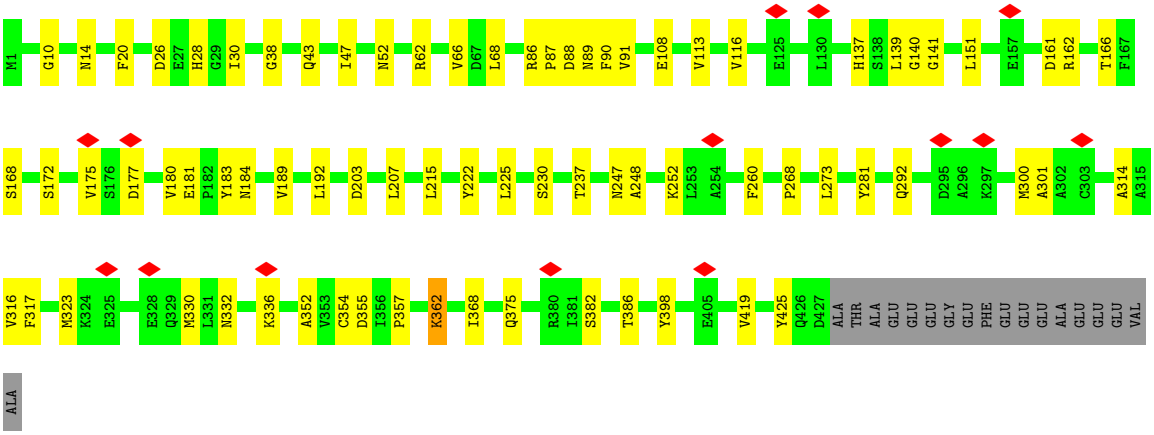
• Molecule 9: Tubulin beta-4B chain

Chain BF:



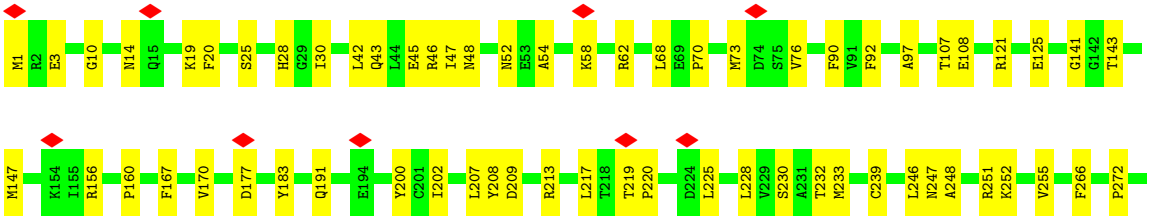
• Molecule 9: Tubulin beta-4B chain

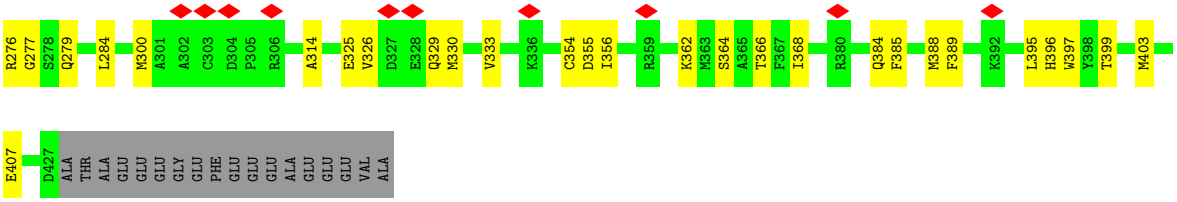
Chain BH:



• Molecule 9: Tubulin beta-4B chain

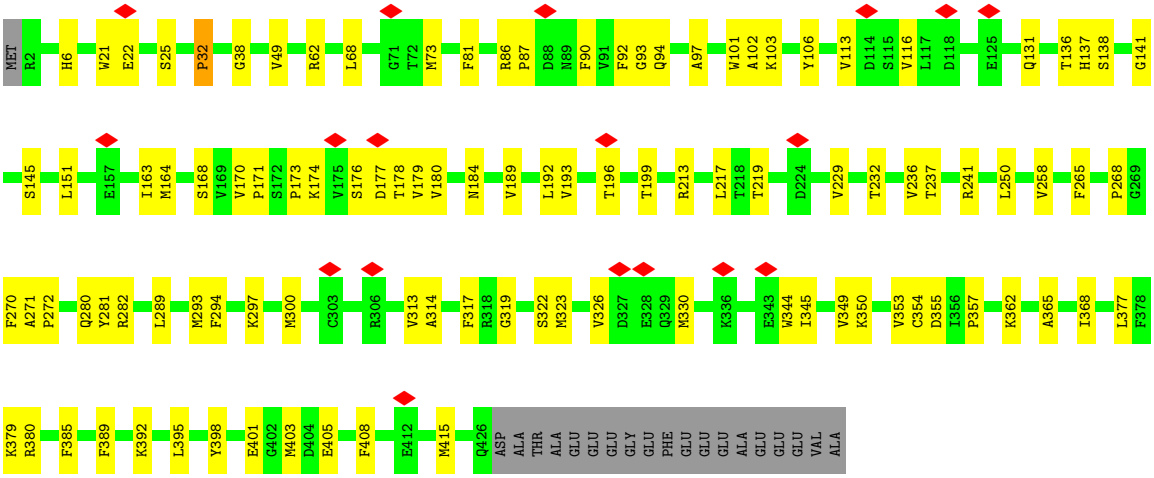
Chain BJ:





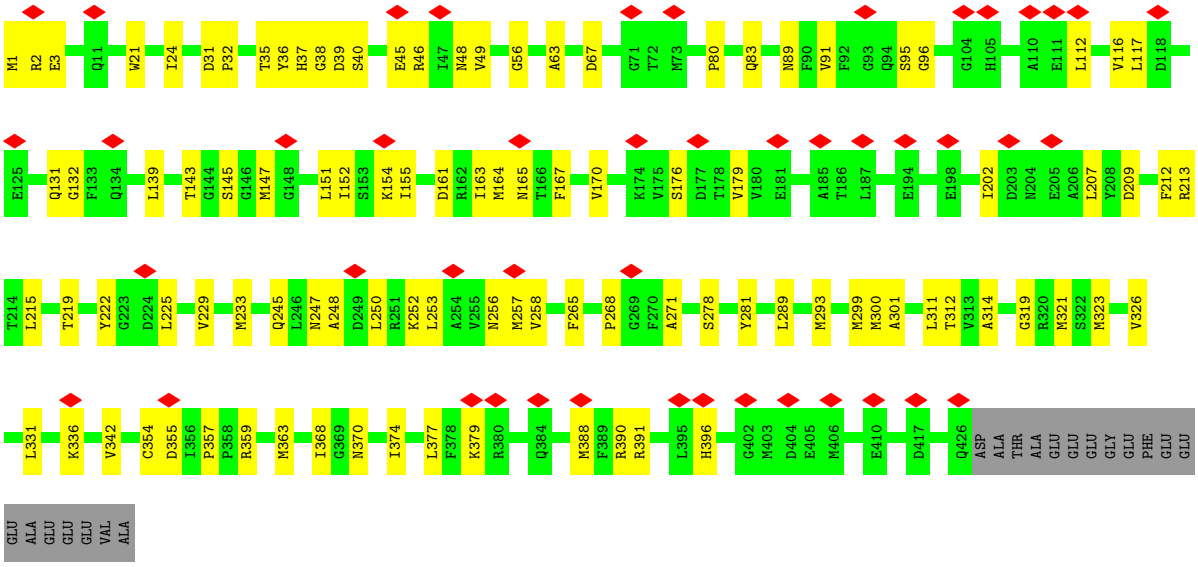
• Molecule 9: Tubulin beta-4B chain

Chain BL:



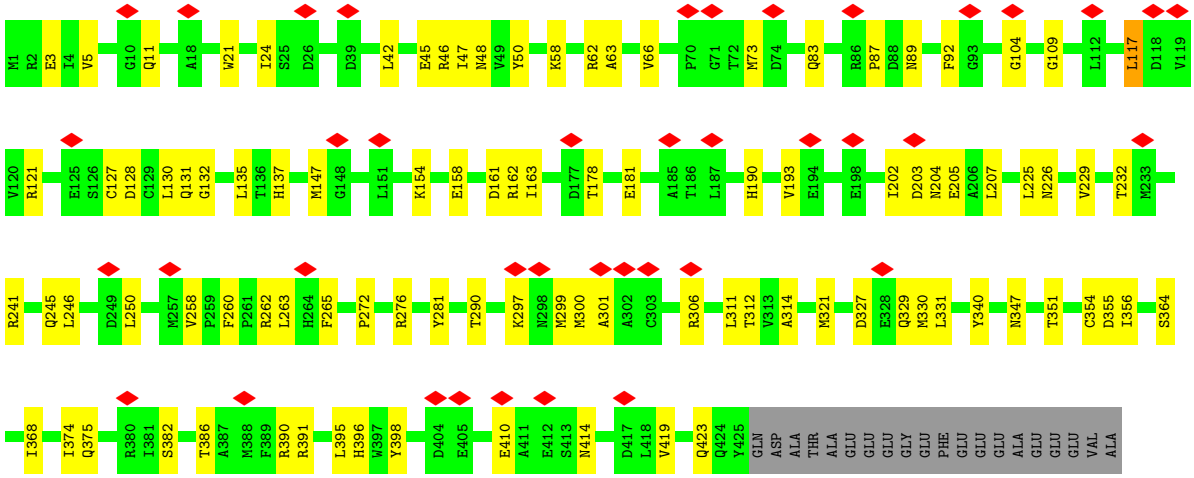
• Molecule 9: Tubulin beta-4B chain

Chain CB:



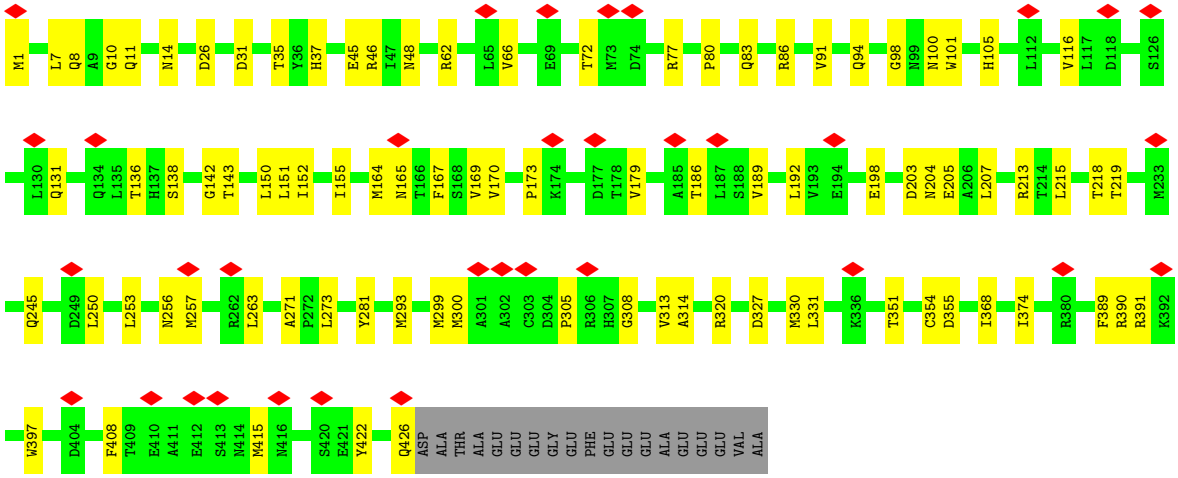
• Molecule 9: Tubulin beta-4B chain

Chain CD:



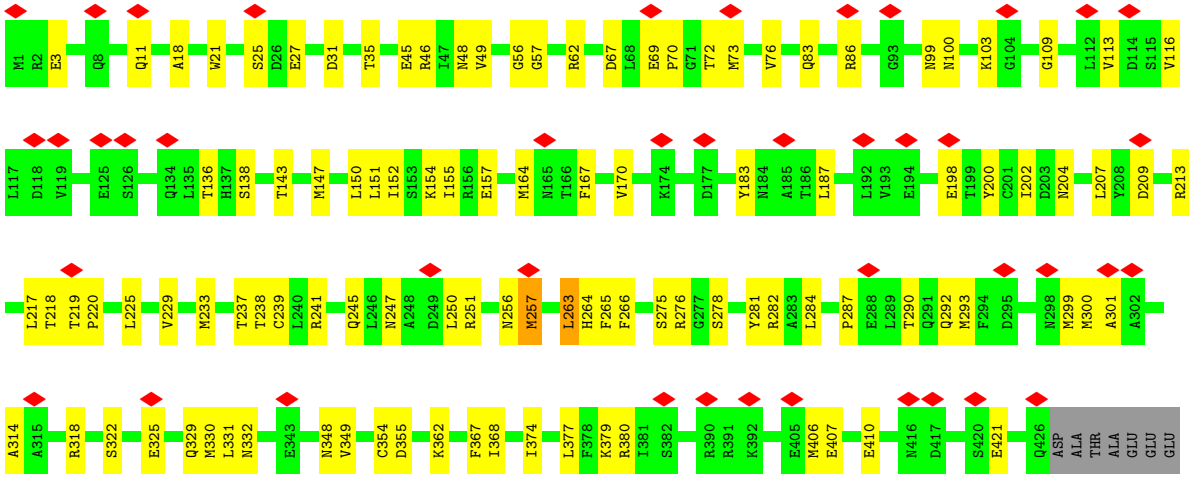
• Molecule 9: Tubulin beta-4B chain

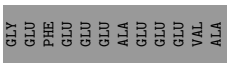
Chain CF:



• Molecule 9: Tubulin beta-4B chain

Chain CH:





• Molecule 9: Tubulin beta-4B chain

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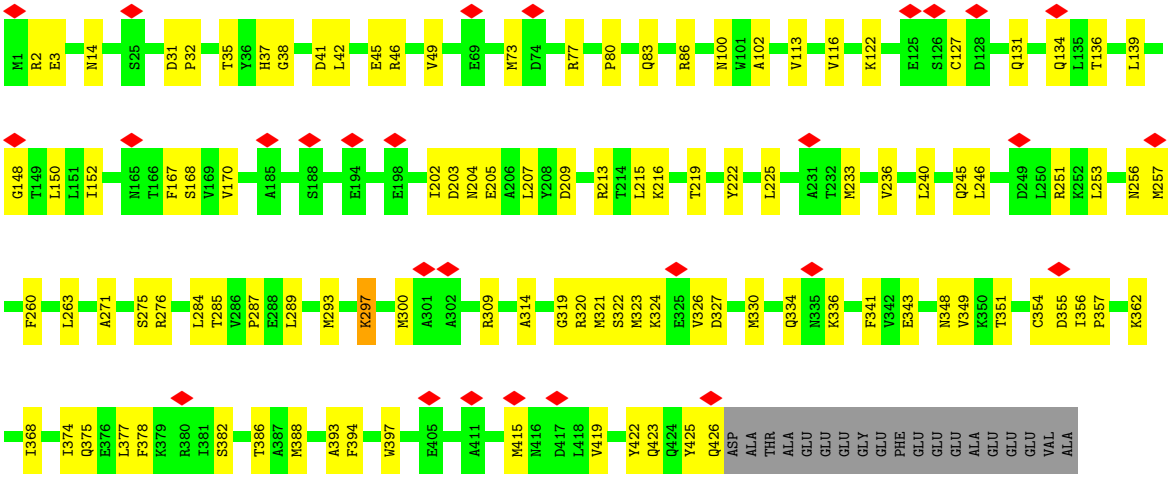
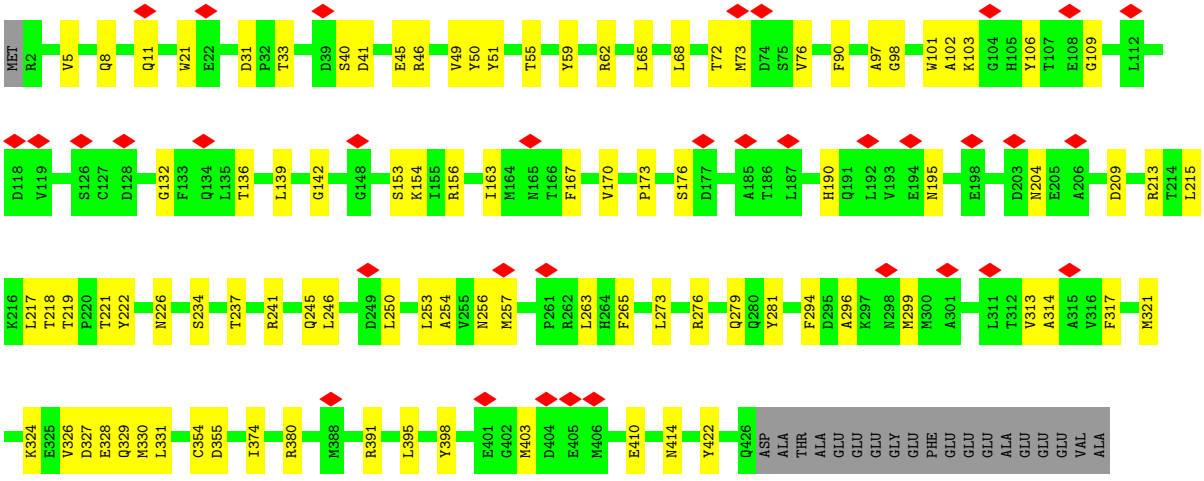


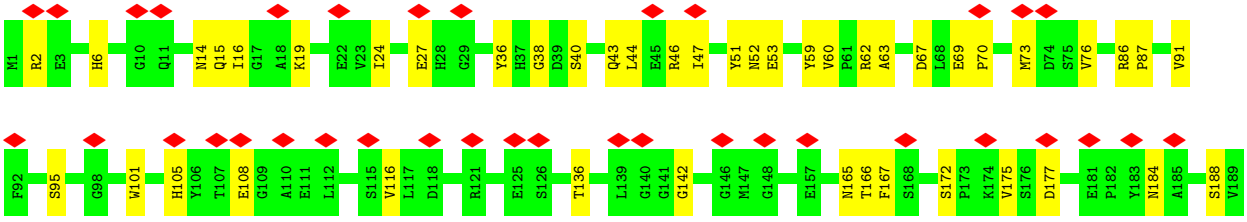
• Molecule 9: Tubulin beta-4B chain

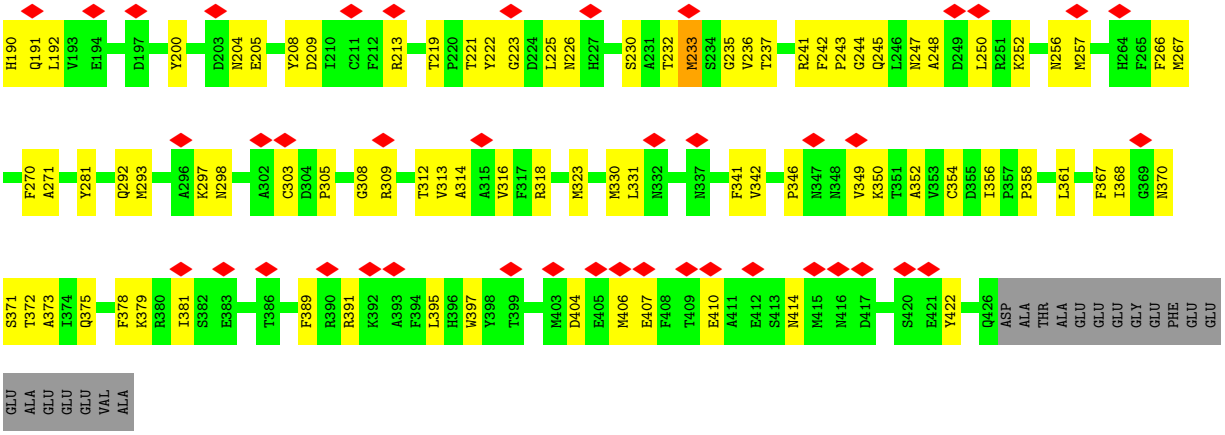
Chain CL:



• Molecule 9: Tubulin beta-4B chain

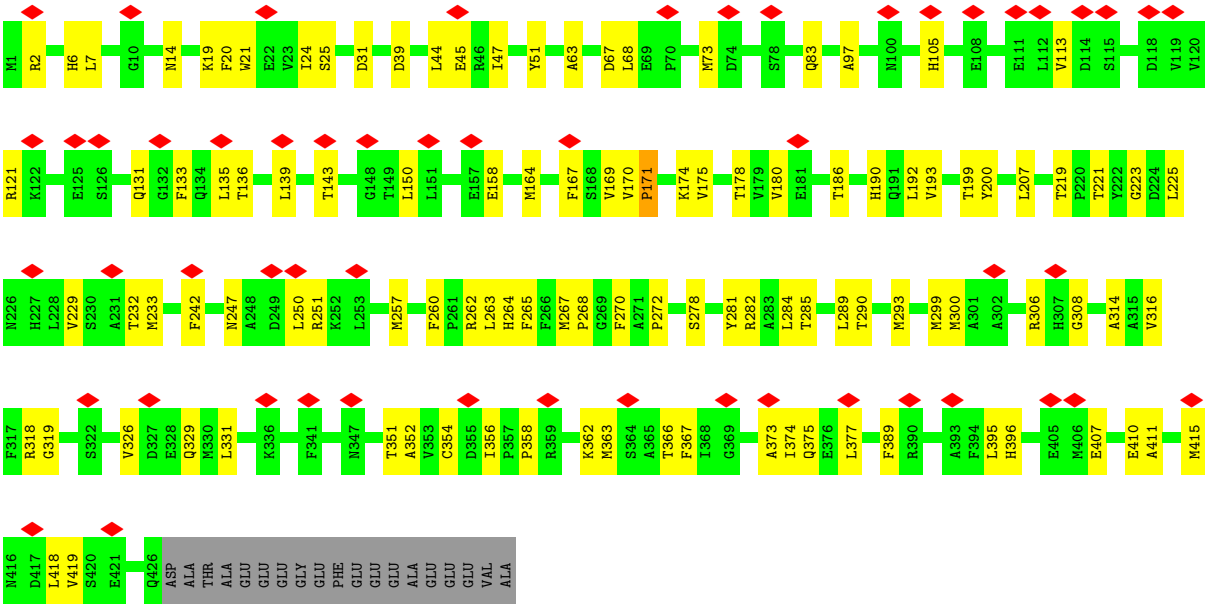
Chain DB:





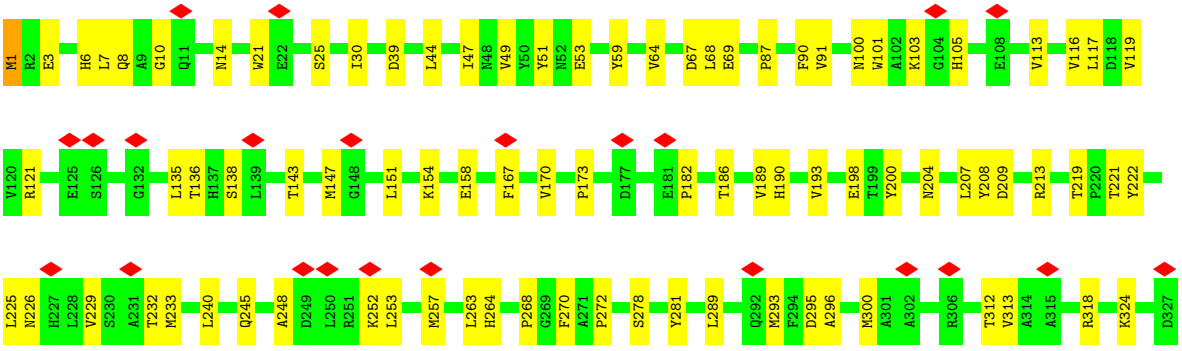
• Molecule 9: Tubulin beta-4B chain

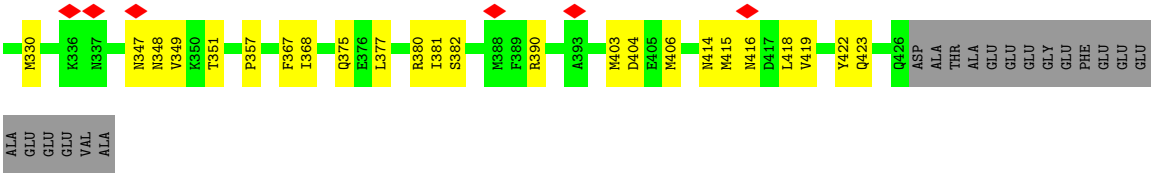
Chain DD:



• Molecule 9: Tubulin beta-4B chain

Chain DF:





• Molecule 9: Tubulin beta-4B chain

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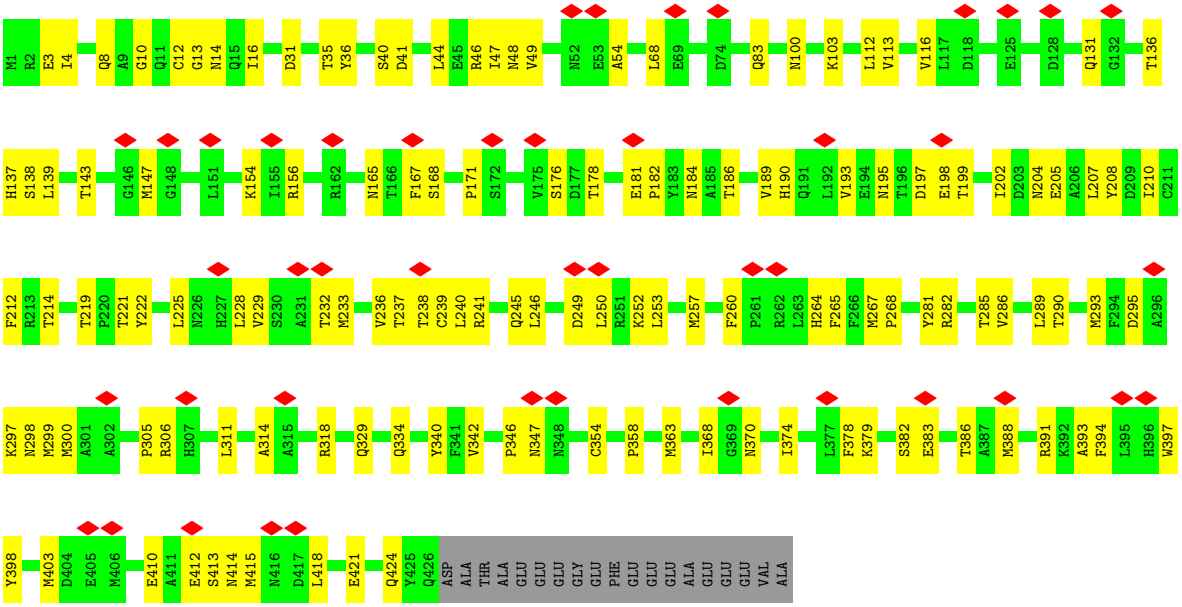
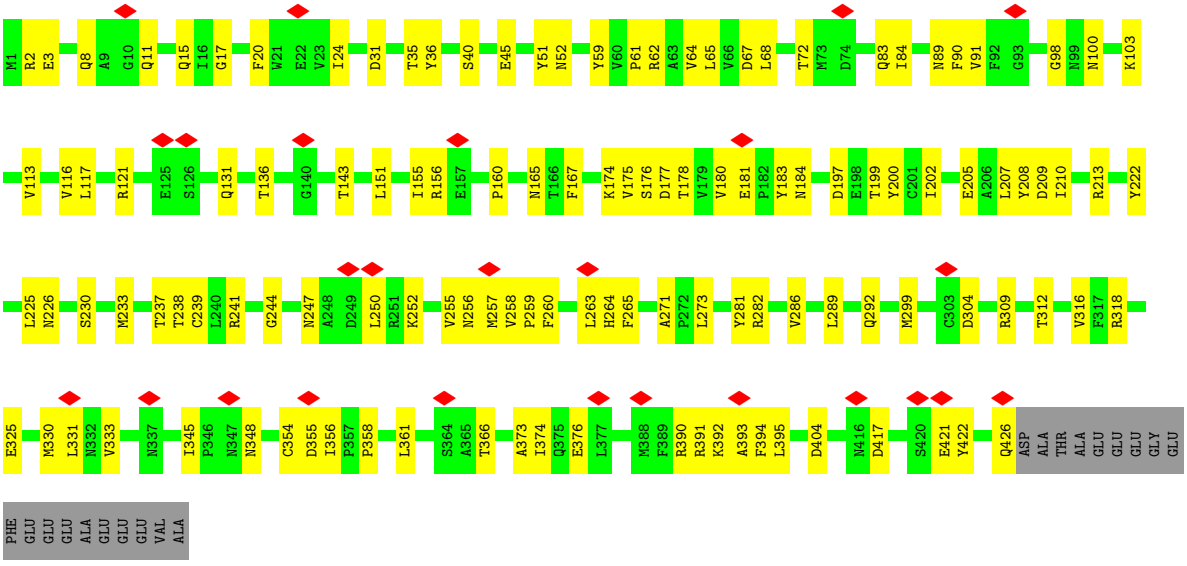
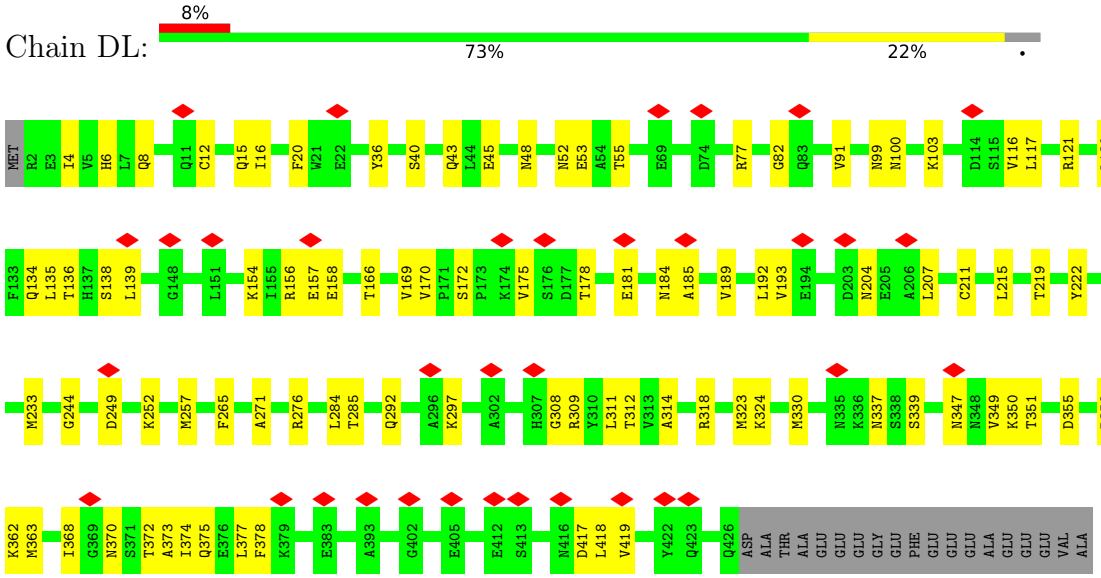


• Molecule 9: Tubulin beta-4B chain

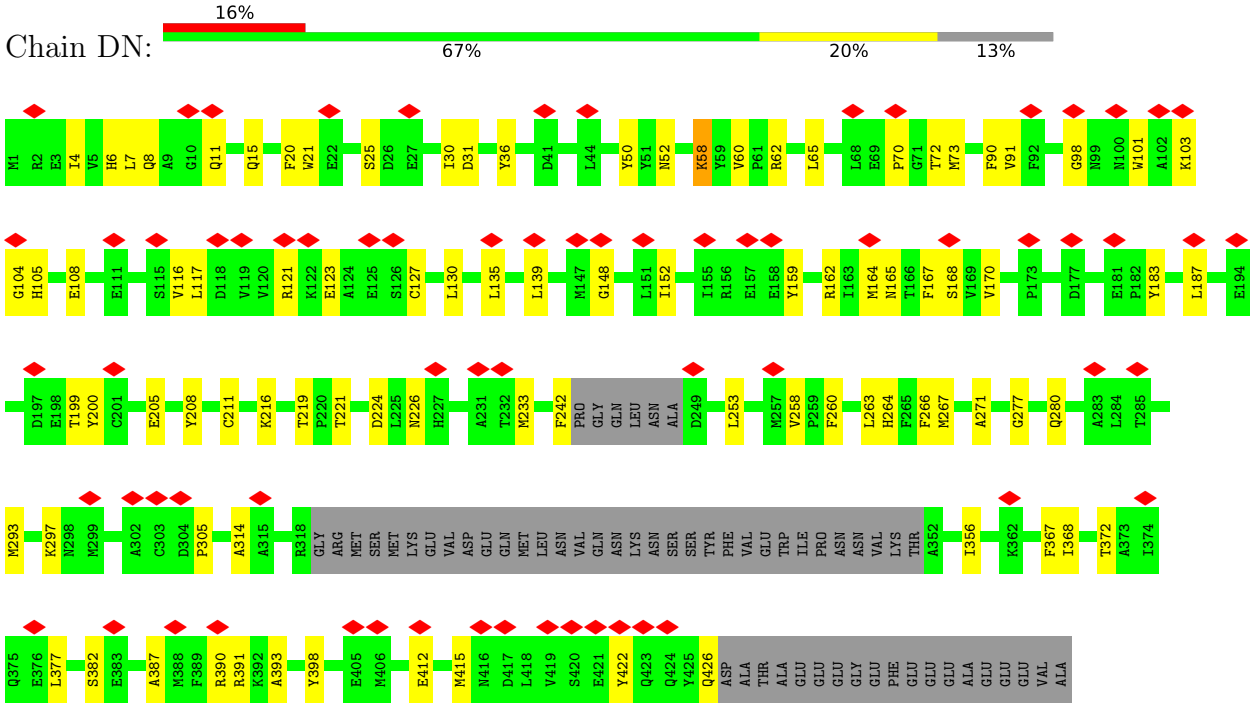
Chain DJ:



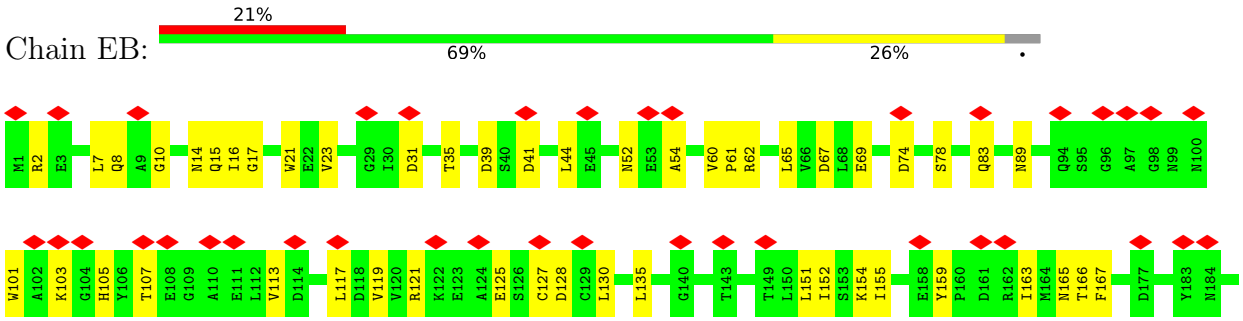
• Molecule 9: Tubulin beta-4B chain

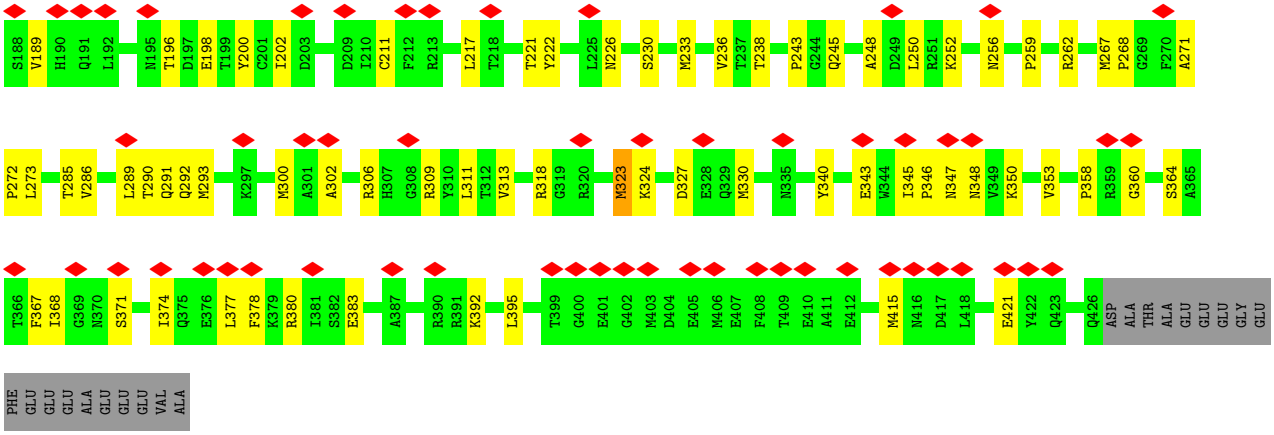


• Molecule 9: Tubulin beta-4B chain



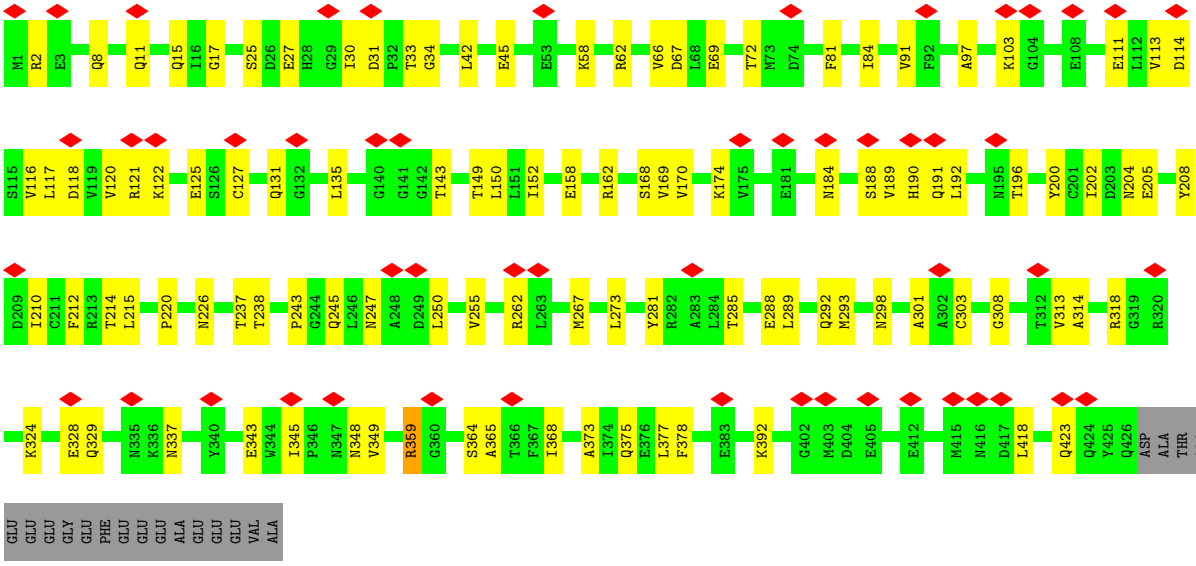
• Molecule 9: Tubulin beta-4B chain





• Molecule 9: Tubulin beta-4B chain

Chain ED:



• Molecule 9: Tubulin beta-4B chain

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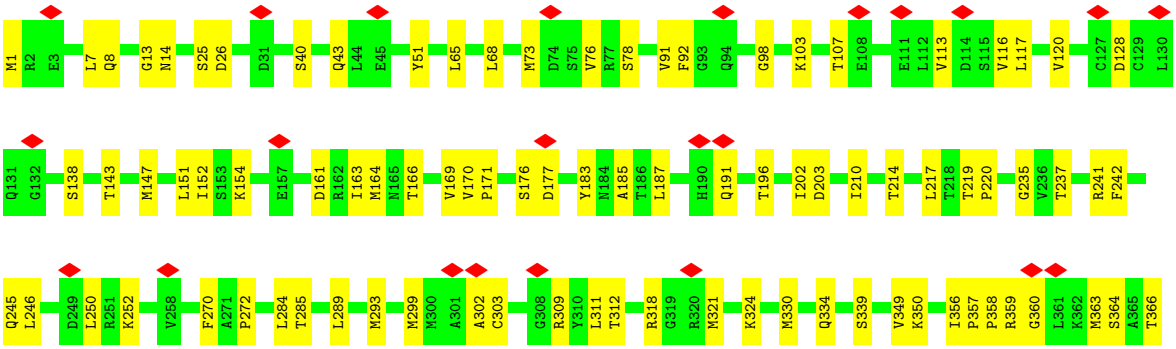

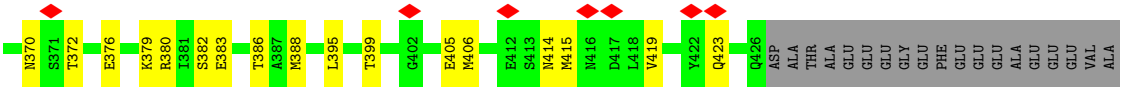

• Molecule 9: Tubulin beta-4B chain

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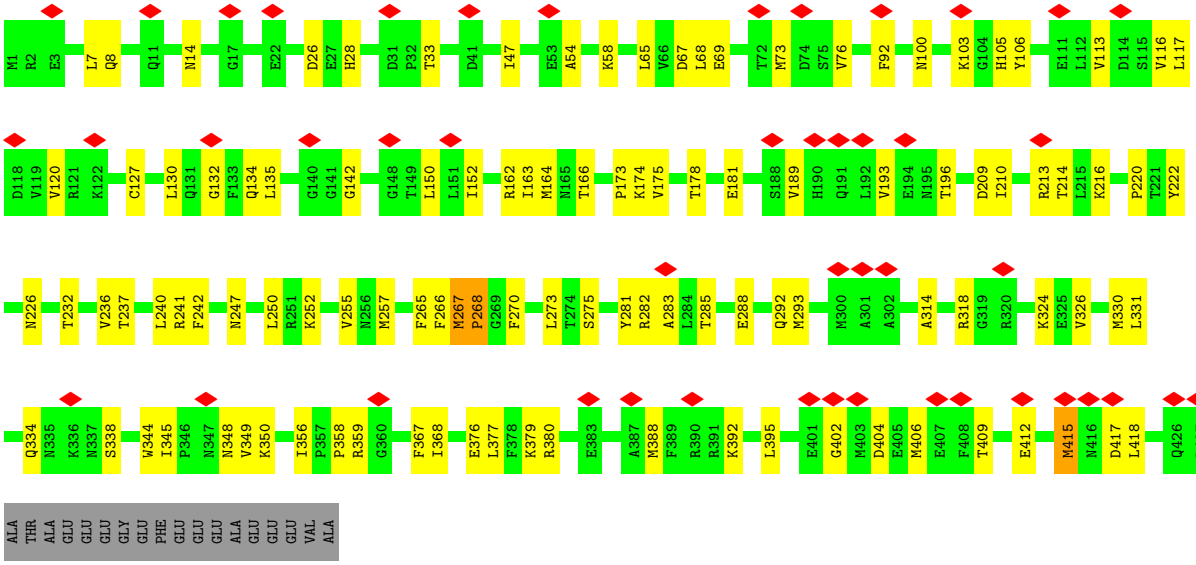
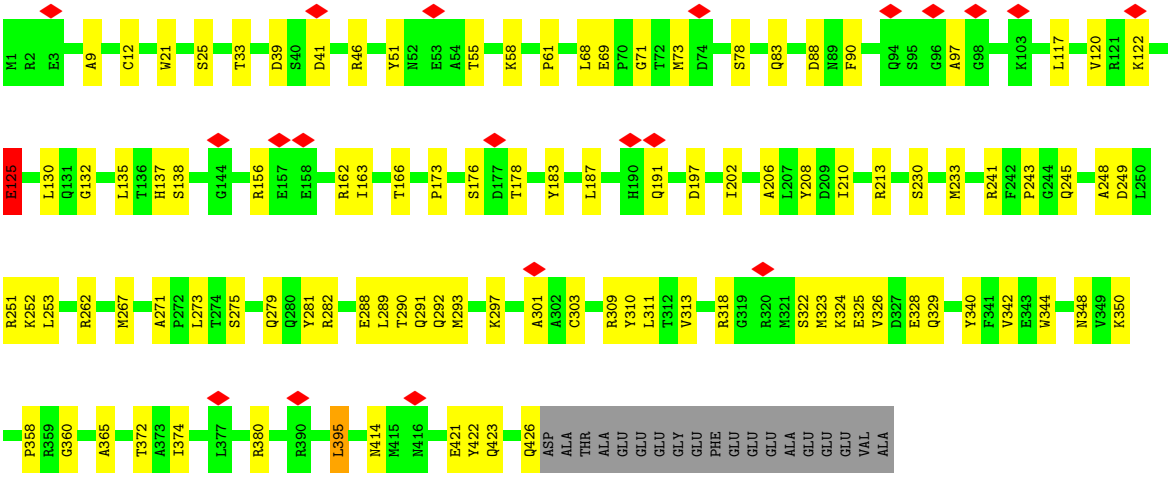


• Molecule 9: Tubulin beta-4B chain

Chain EJ:



• Molecule 9: Tubulin beta-4B chain

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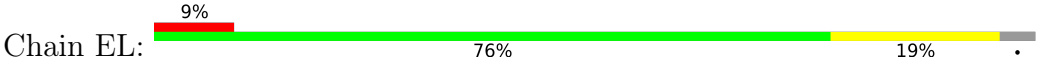
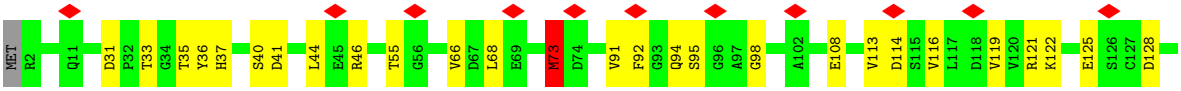
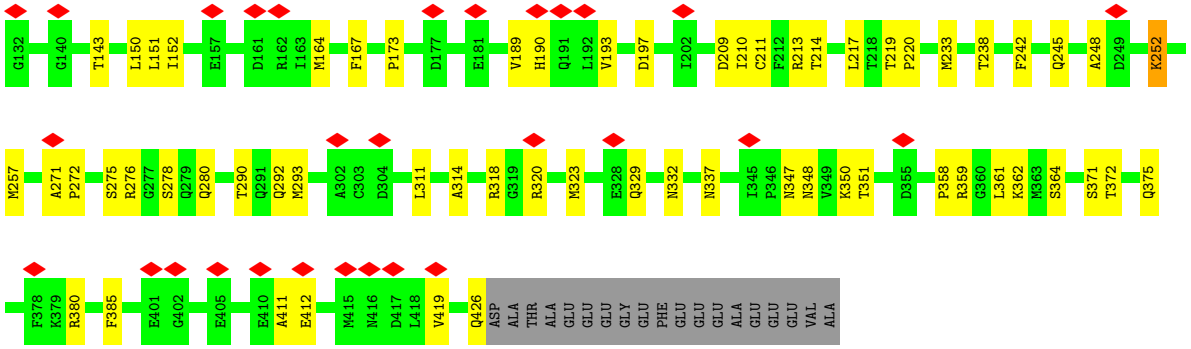
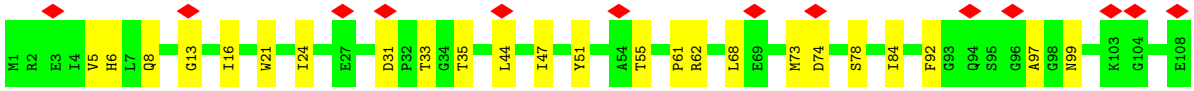






• Molecule 9: Tubulin beta-4B chain

Chain EN:



• Molecule 9: Tubulin beta-4B chain

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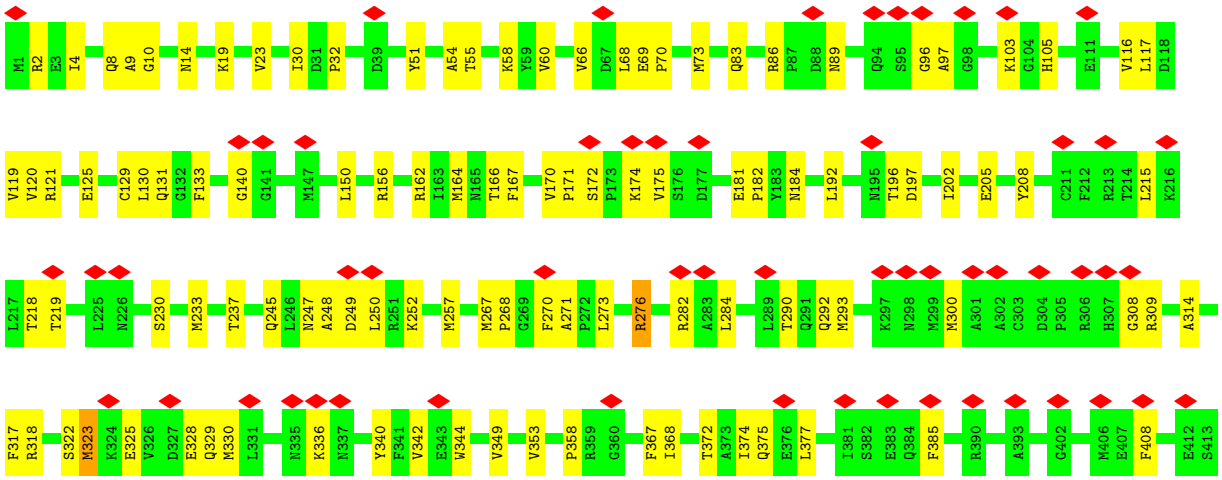
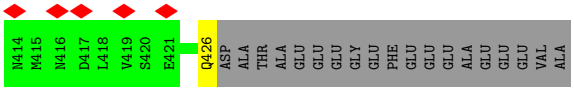
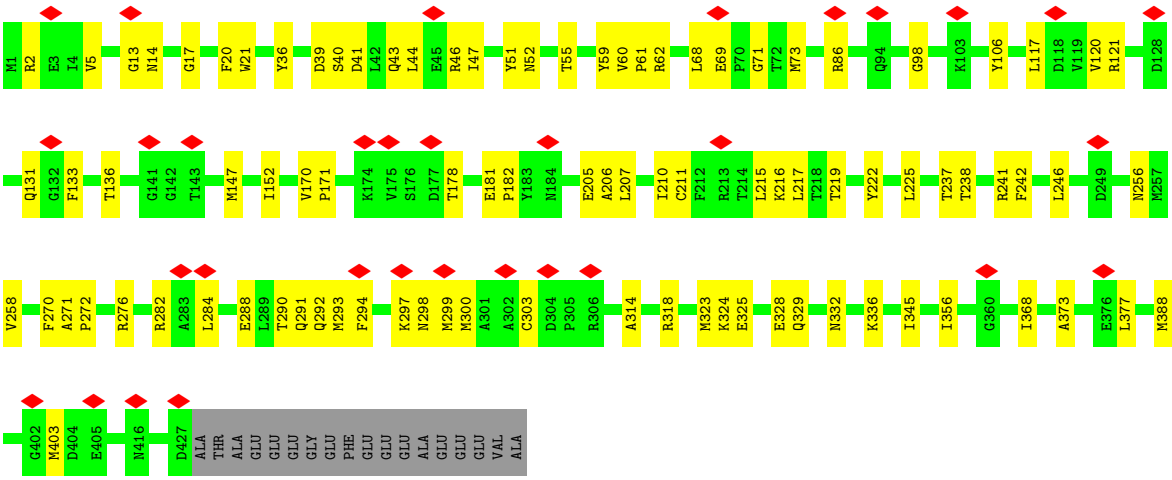




• Molecule 9: Tubulin beta-4B chain

Chain FD:



• Molecule 9: Tubulin beta-4B chain

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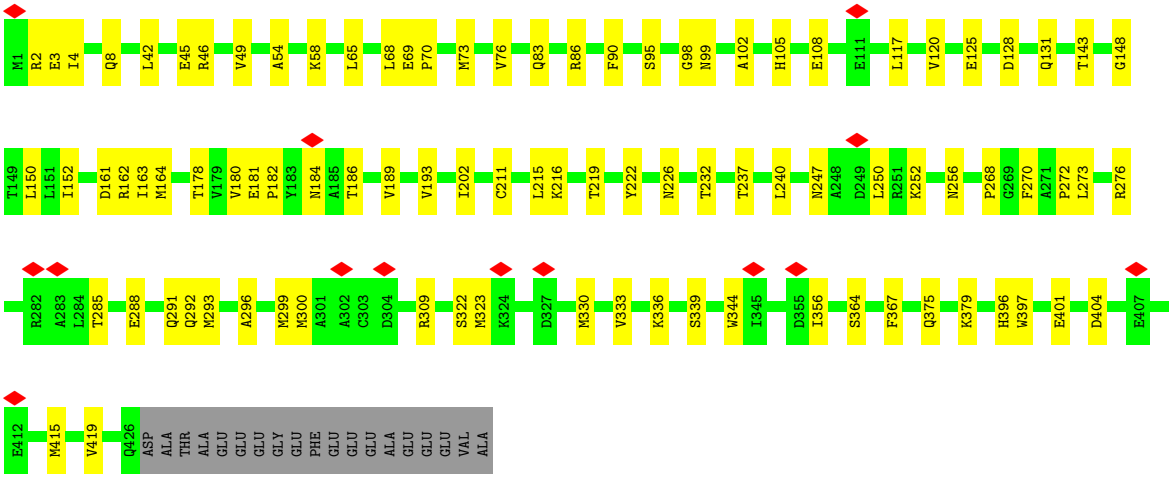
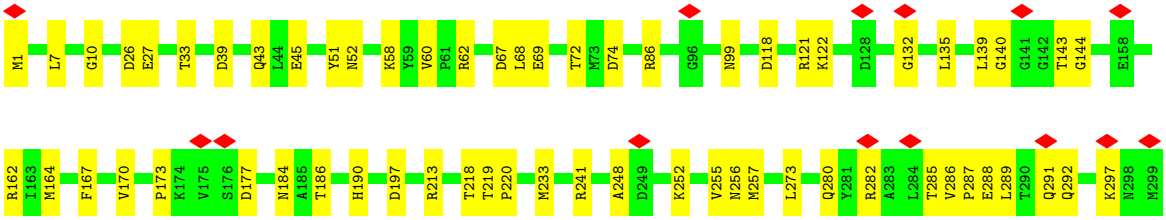
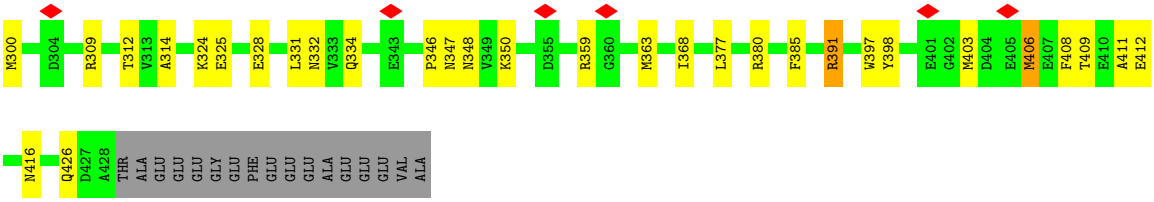


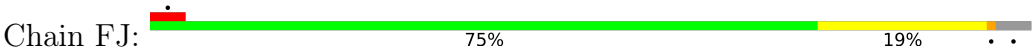
• Molecule 9: Tubulin beta-4B chain

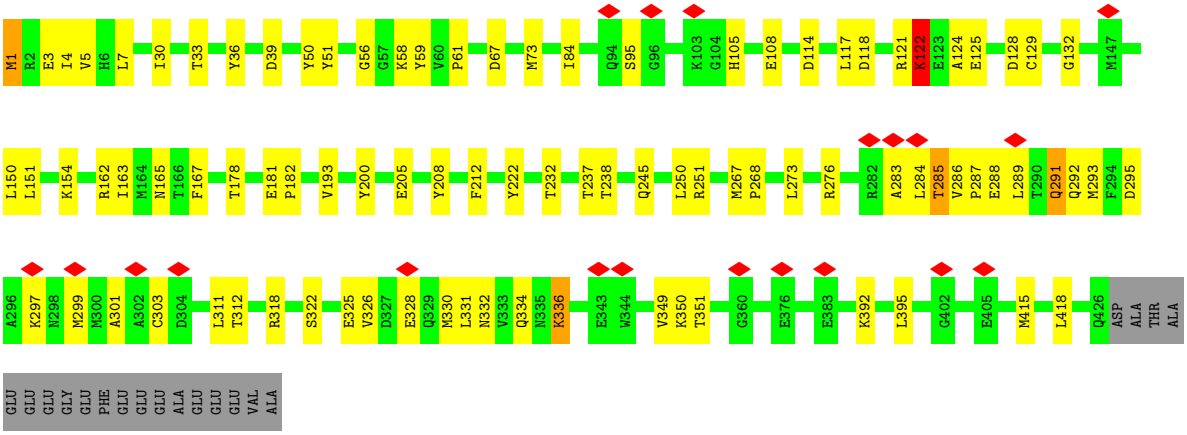
Chain FH:



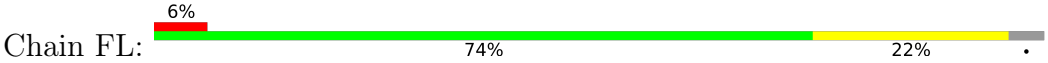


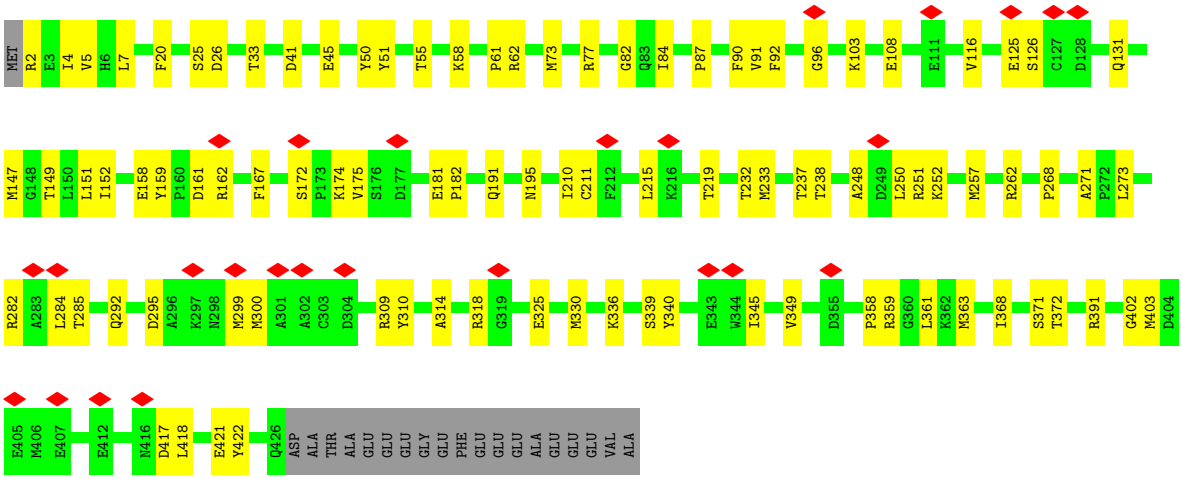
• Molecule 9: Tubulin beta-4B chain



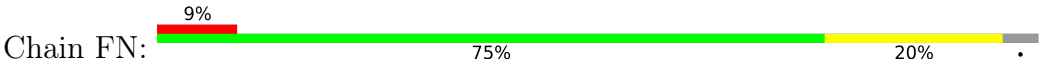


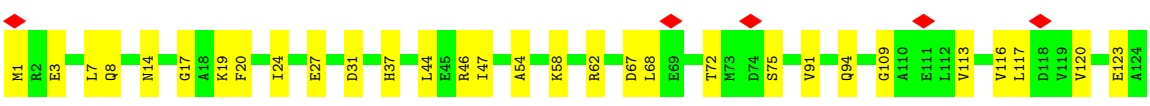
• Molecule 9: Tubulin beta-4B chain

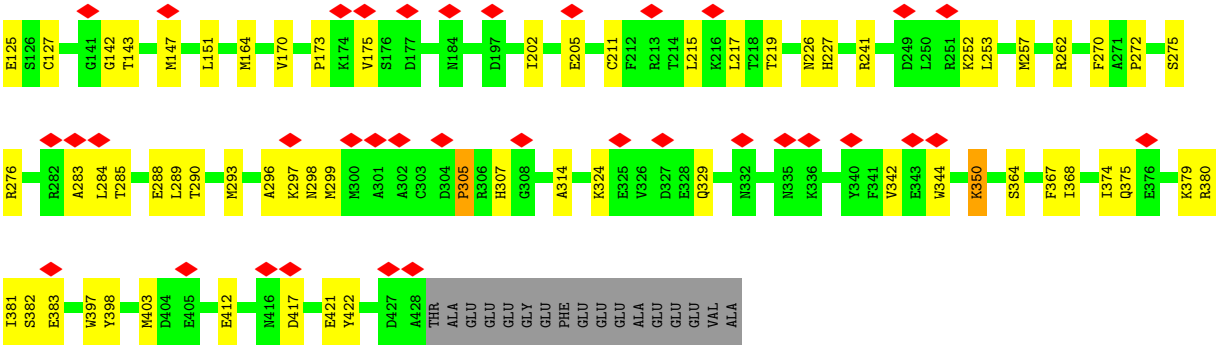




• Molecule 9: Tubulin beta-4B chain







• Molecule 9: Tubulin beta-4B chain

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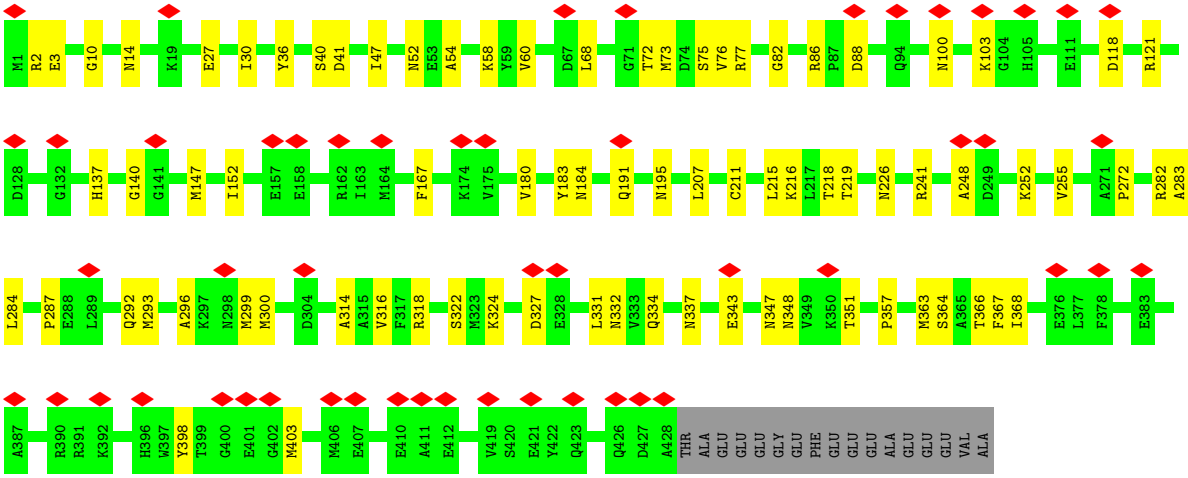

• Molecule 9: Tubulin beta-4B chain

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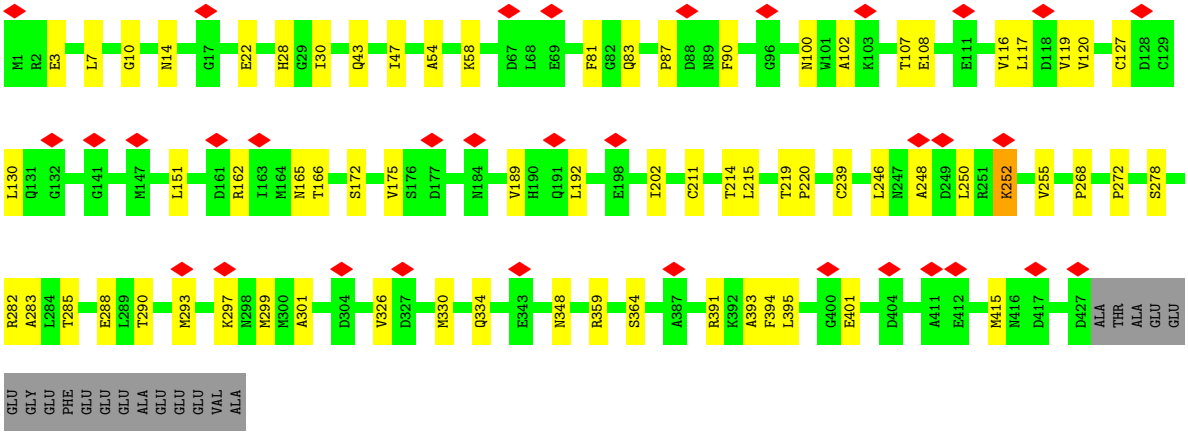

• Molecule 9: Tubulin beta-4B chain

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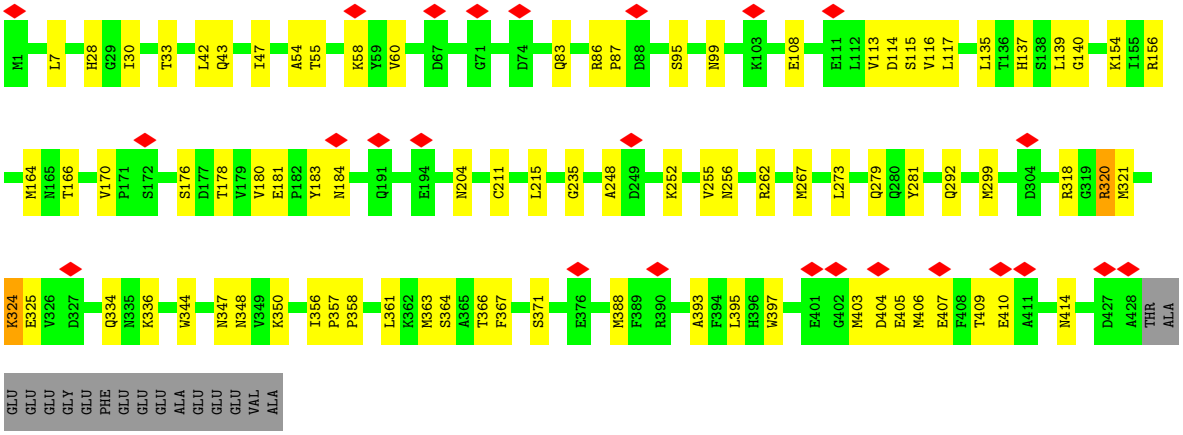

• Molecule 9: Tubulin beta-4B chain

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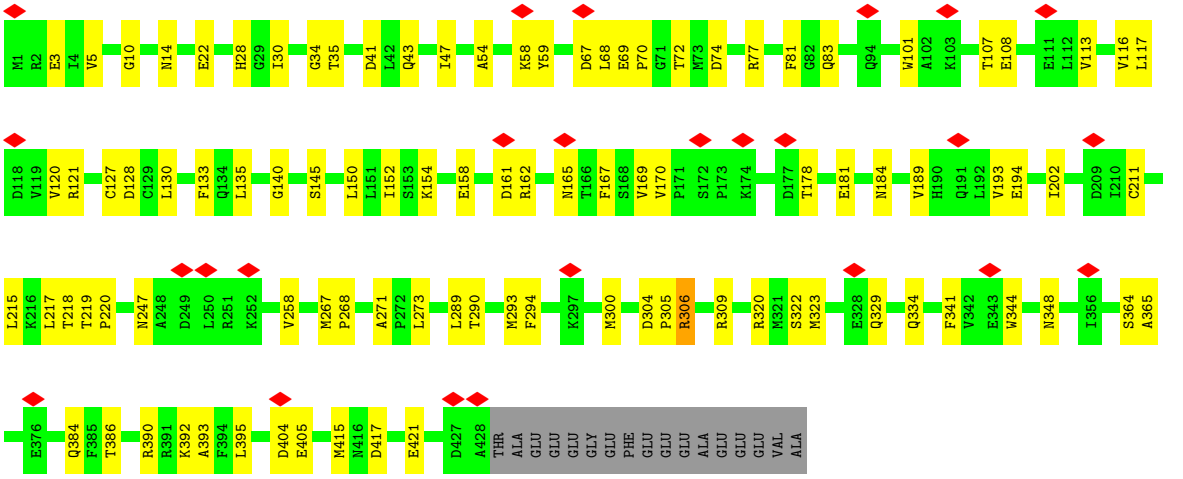

• Molecule 9: Tubulin beta-4B chain

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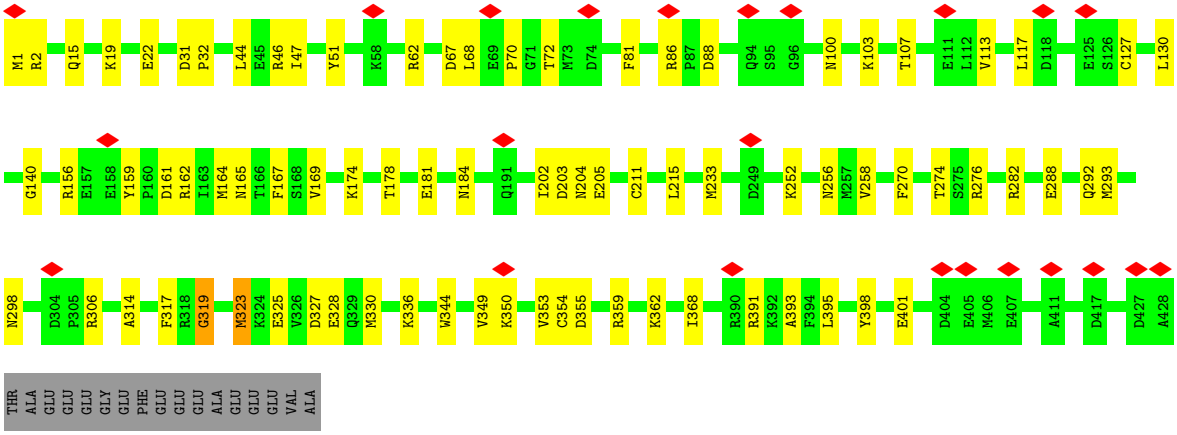

• Molecule 9: Tubulin beta-4B chain

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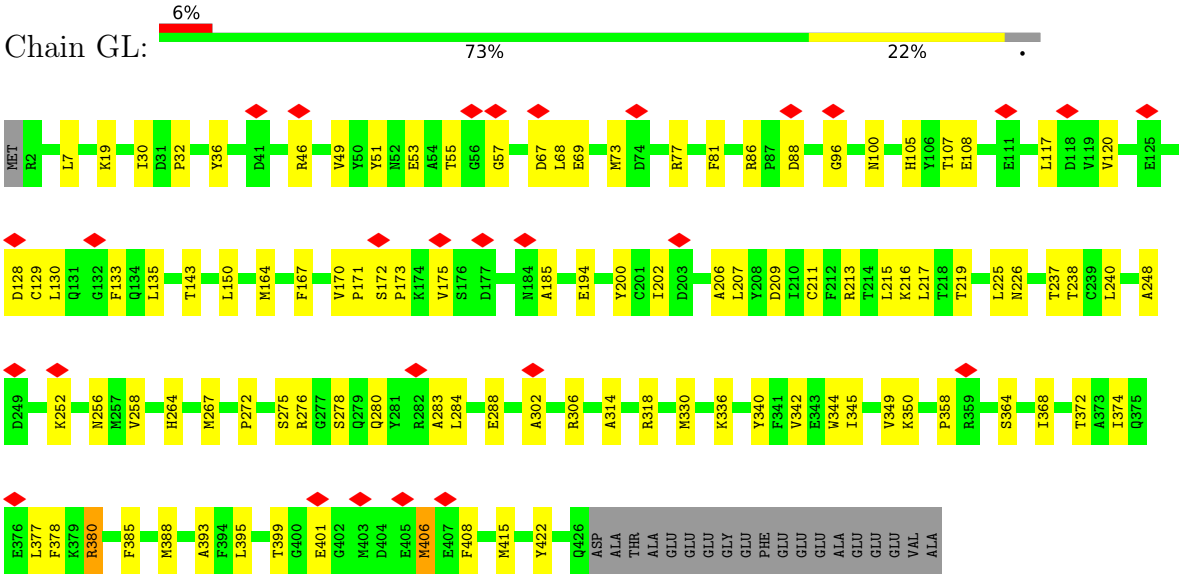

• Molecule 9: Tubulin beta-4B chain

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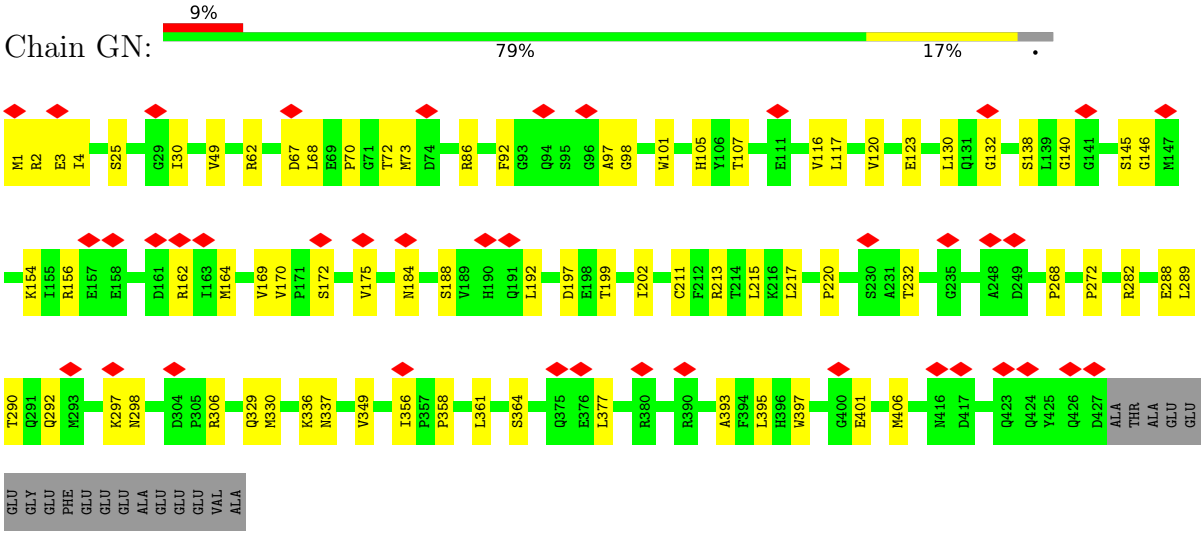

• Molecule 9: Tubulin beta-4B chain

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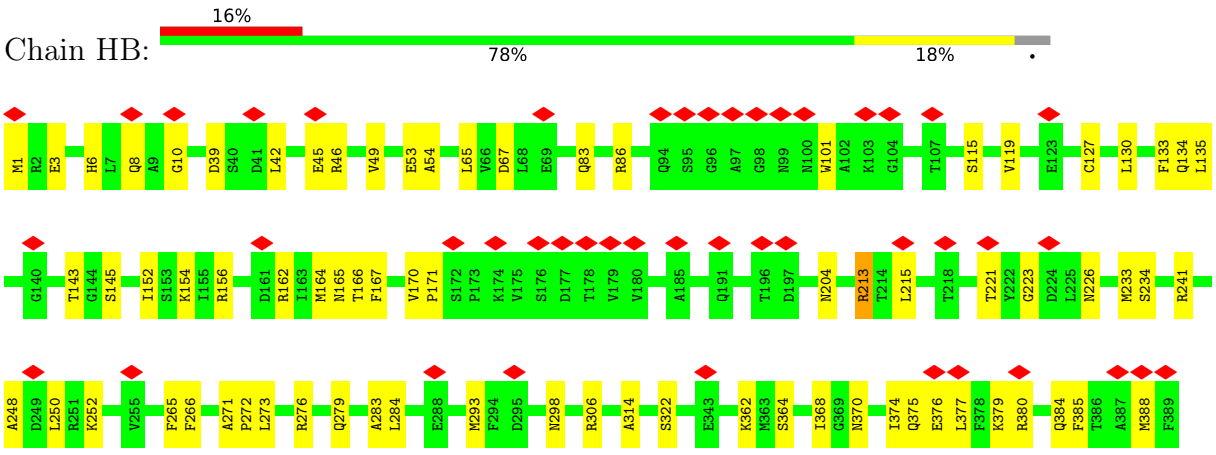

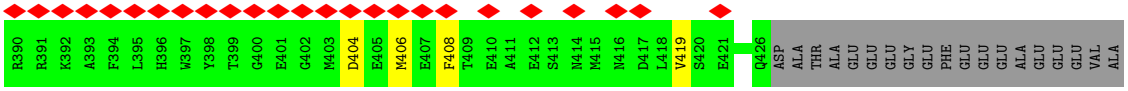

• Molecule 9: Tubulin beta-4B chain

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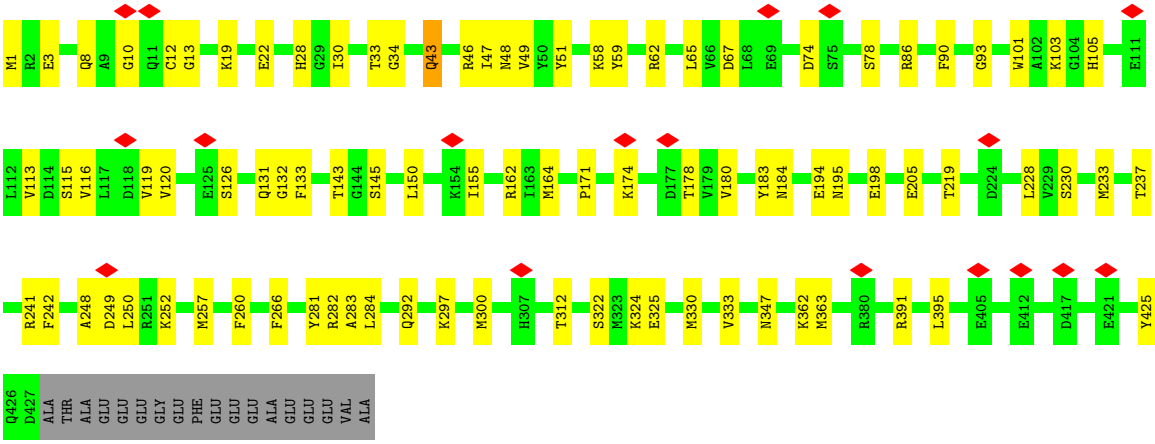

• Molecule 9: Tubulin beta-4B chain

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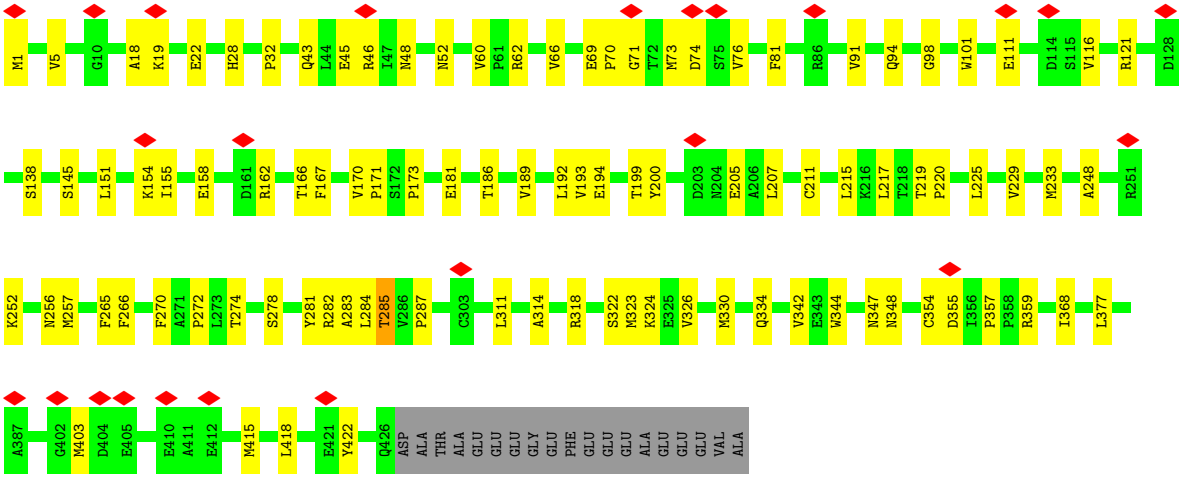

• Molecule 9: Tubulin beta-4B chain

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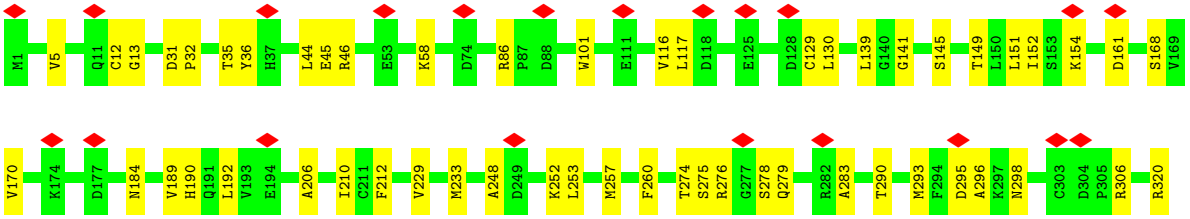

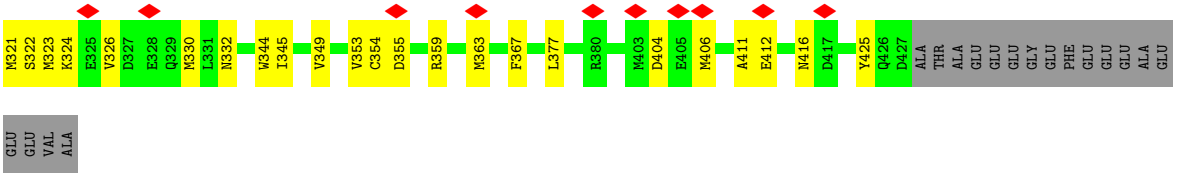

• Molecule 9: Tubulin beta-4B chain

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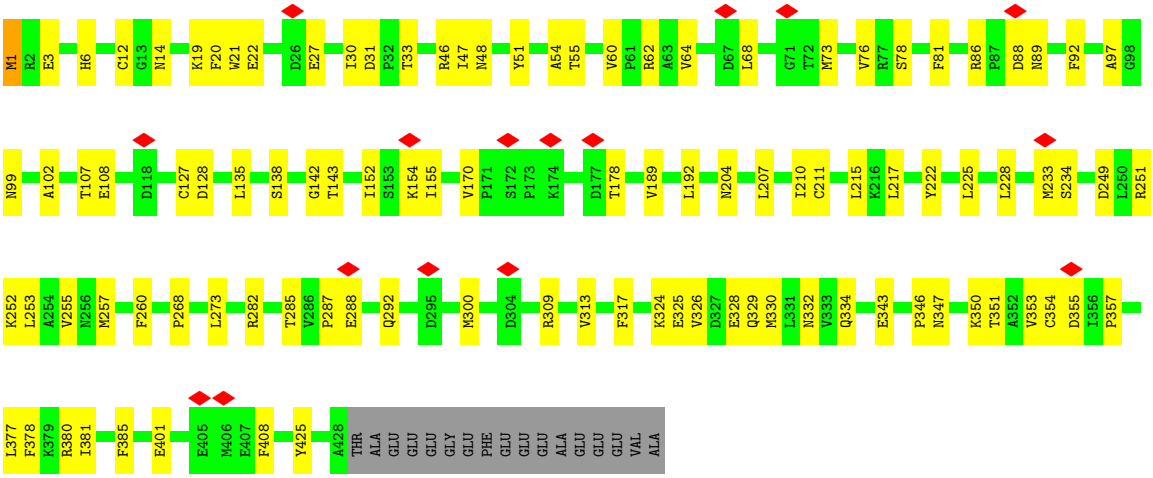

• Molecule 9: Tubulin beta-4B chain

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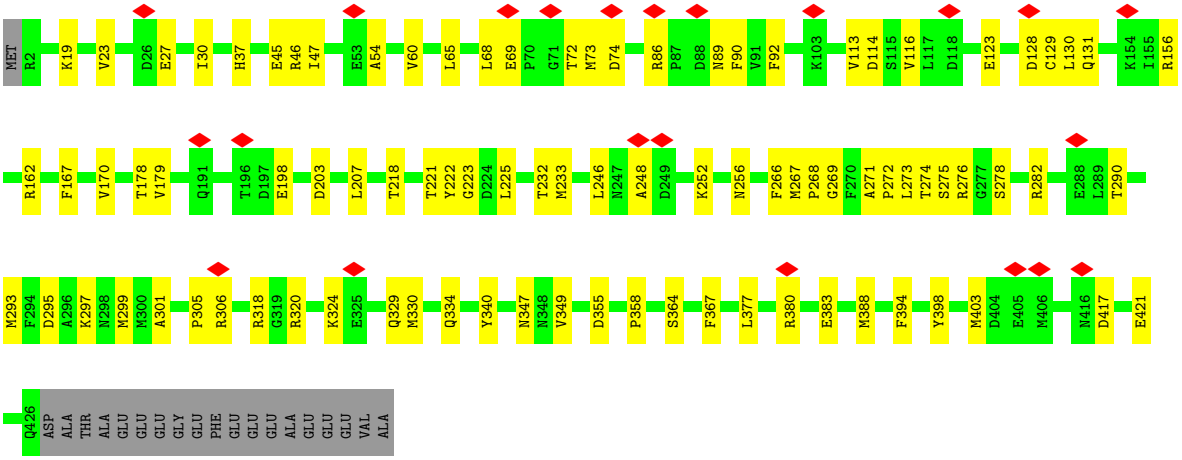

• Molecule 9: Tubulin beta-4B chain

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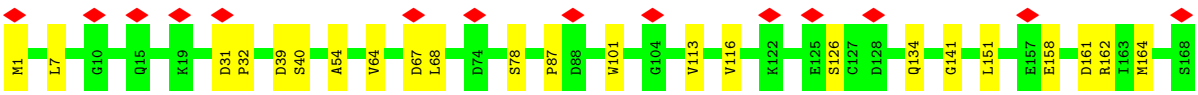

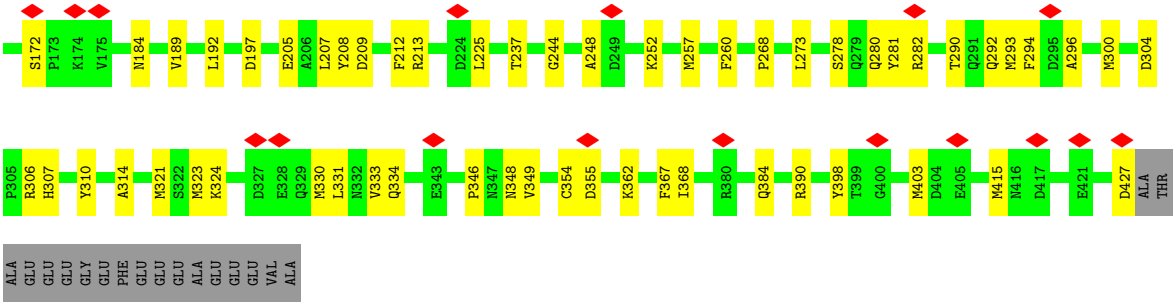

• Molecule 9: Tubulin beta-4B chain

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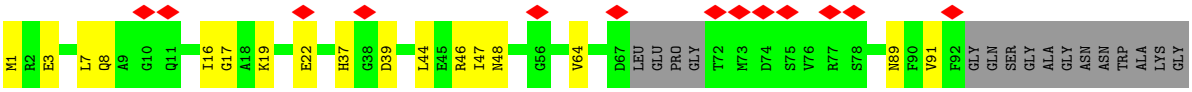

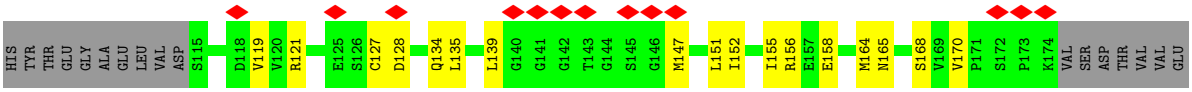

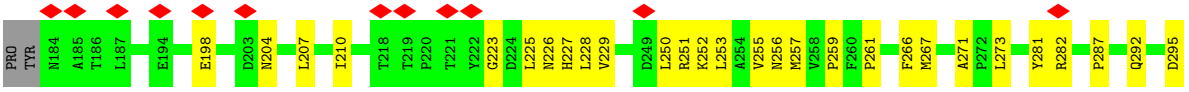

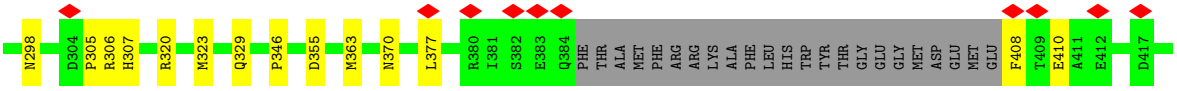

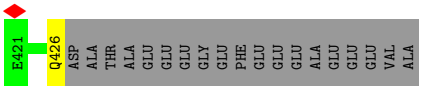

• Molecule 9: Tubulin beta-4B chain

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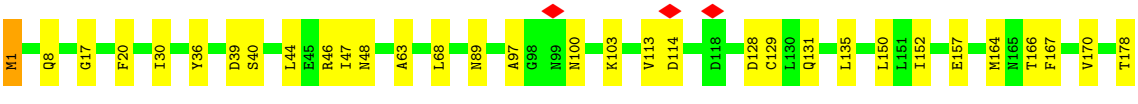

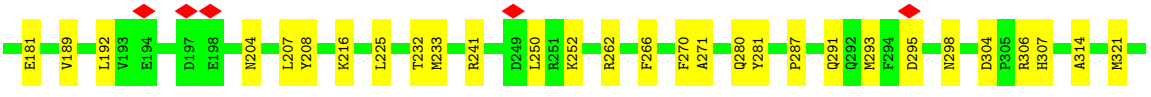

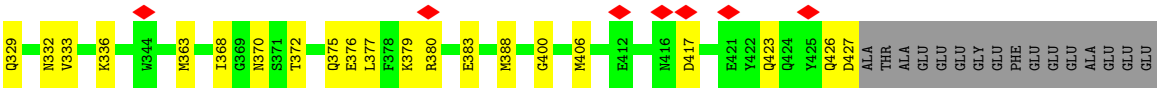

• Molecule 9: Tubulin beta-4B chain

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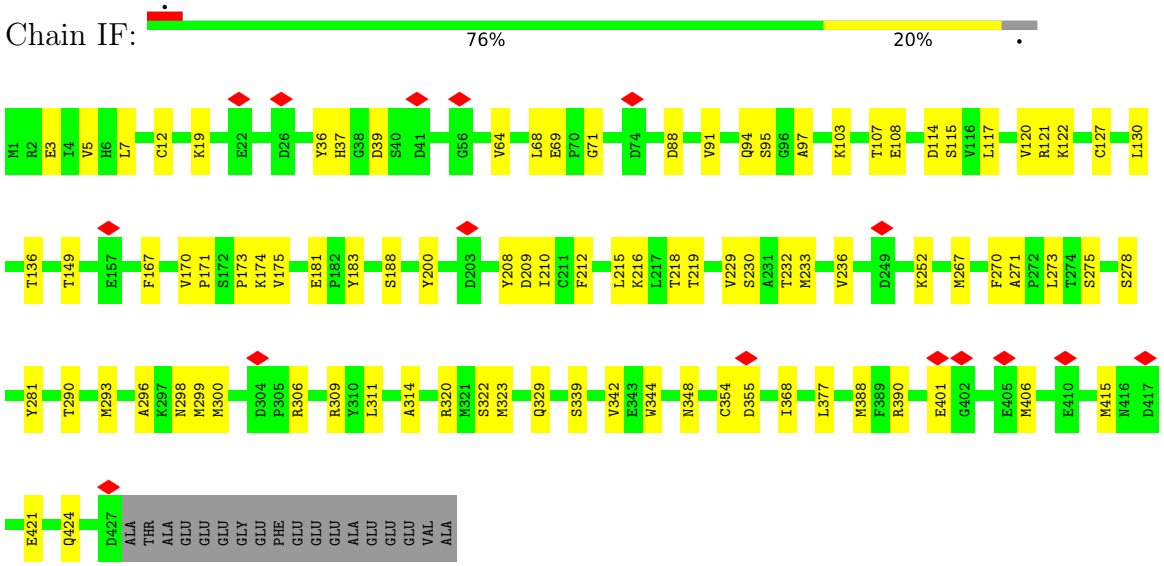

• Molecule 9: Tubulin beta-4B chain

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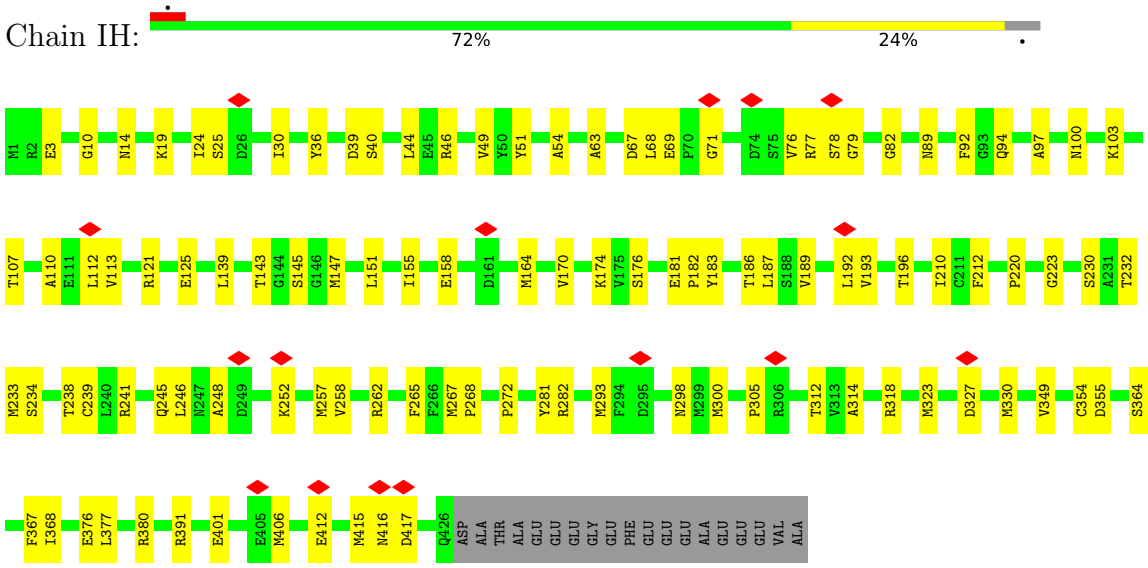

• Molecule 9: Tubulin beta-4B chain

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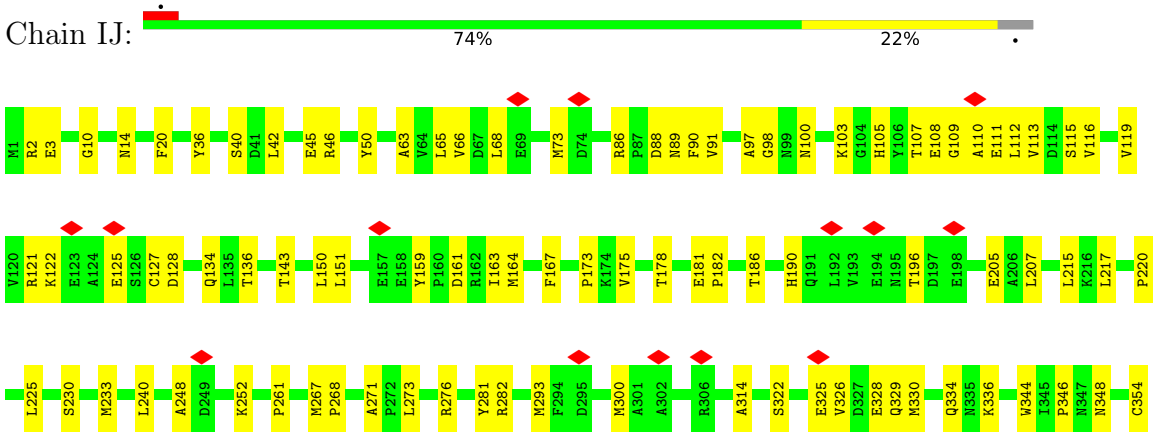

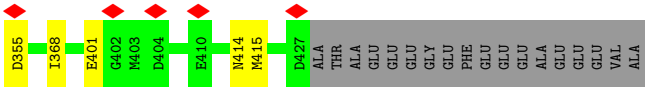

• Molecule 9: Tubulin beta-4B chain

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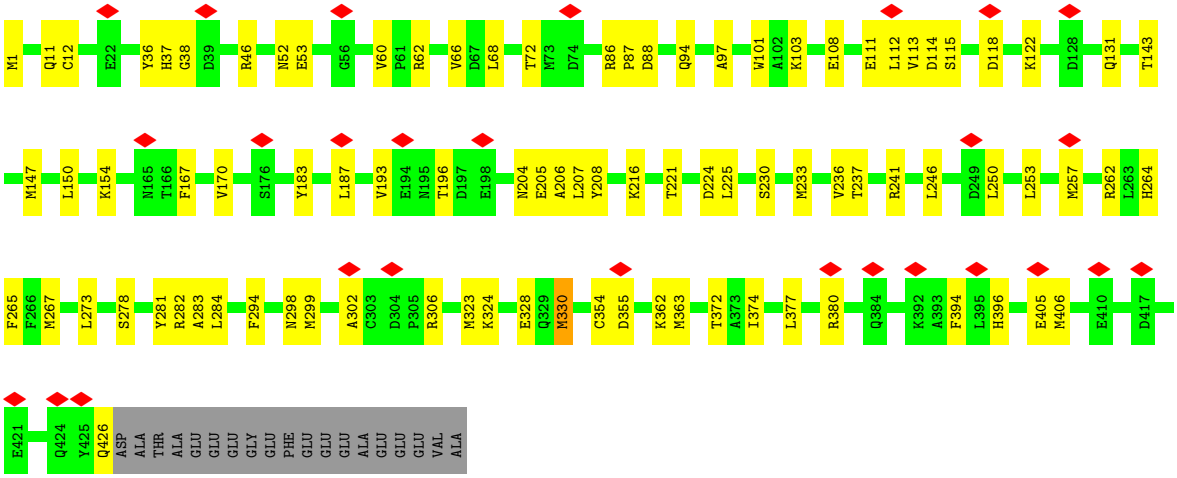

• Molecule 9: Tubulin beta-4B chain

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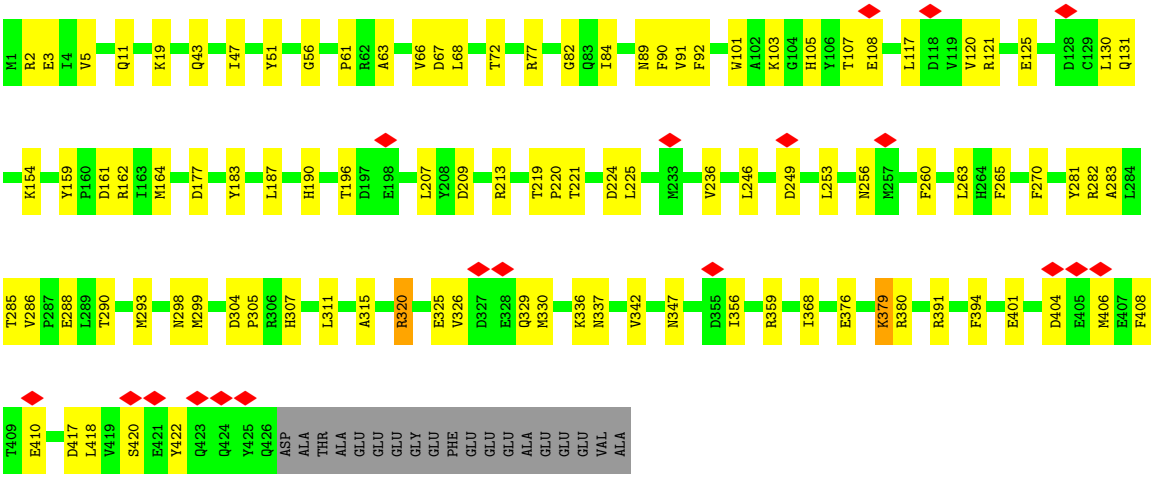

• Molecule 9: Tubulin beta-4B chain

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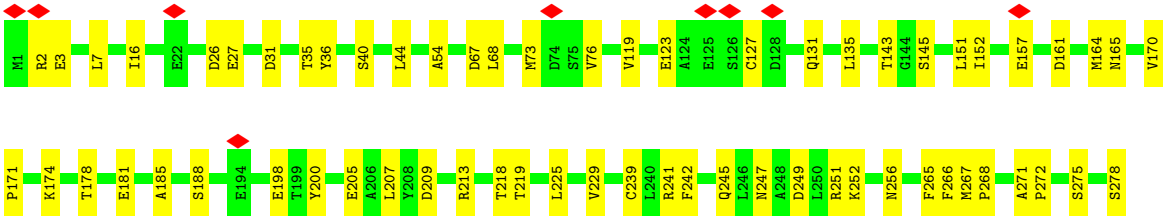

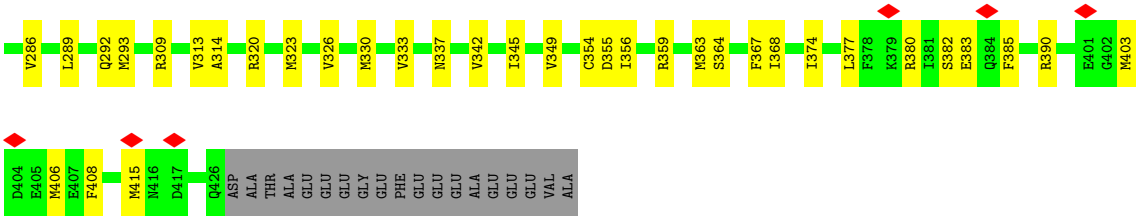

• Molecule 9: Tubulin beta-4B chain

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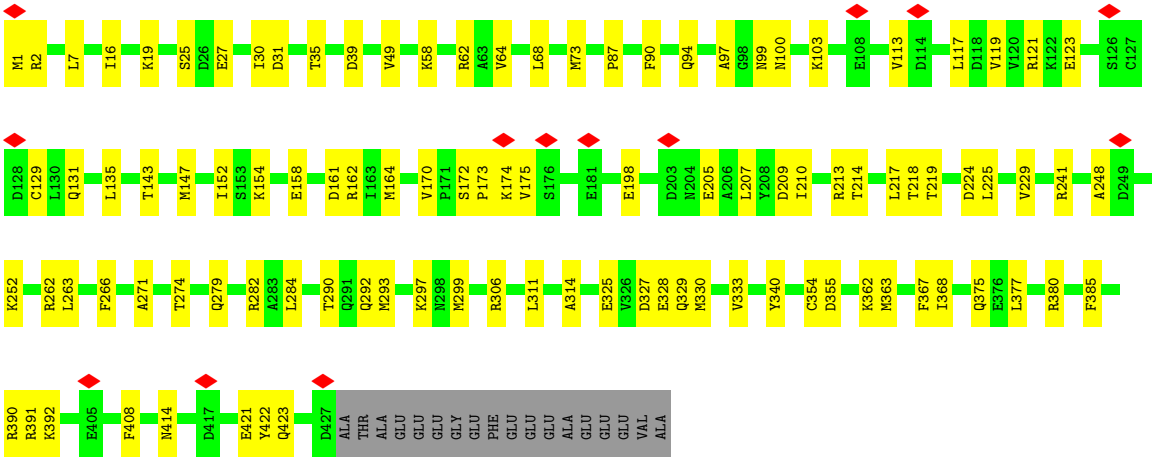

• Molecule 9: Tubulin beta-4B chain

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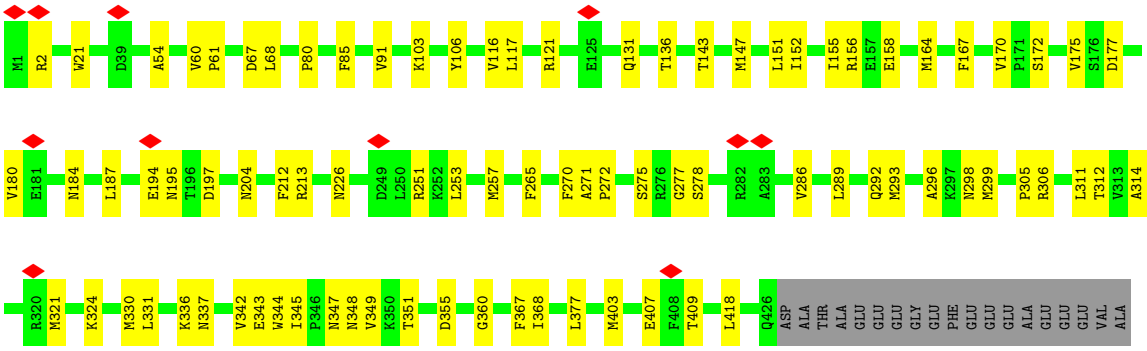

• Molecule 9: Tubulin beta-4B chain

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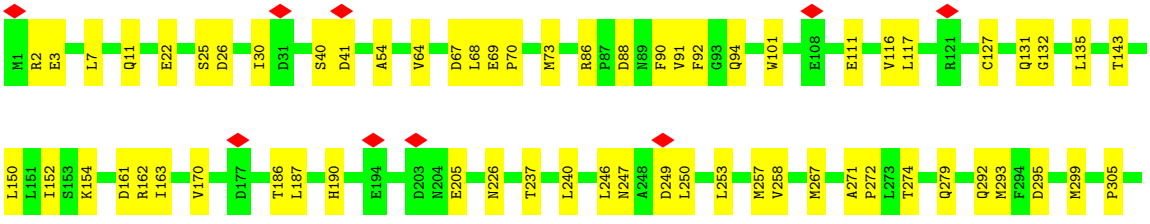

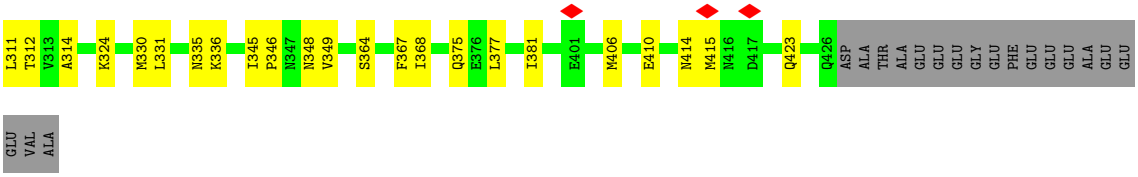

• Molecule 9: Tubulin beta-4B chain

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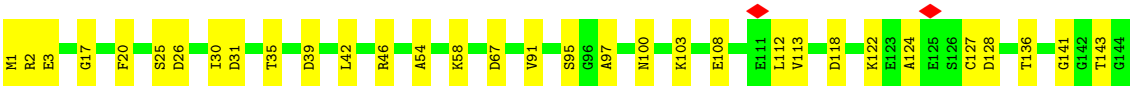

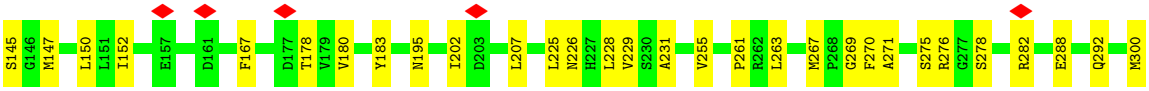

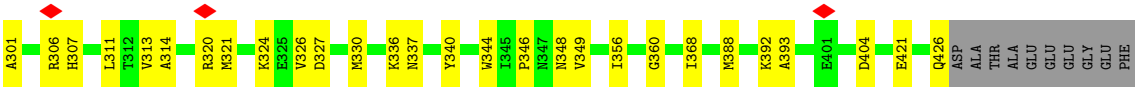

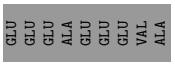

• Molecule 9: Tubulin beta-4B chain

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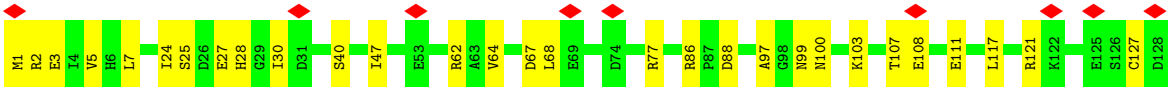

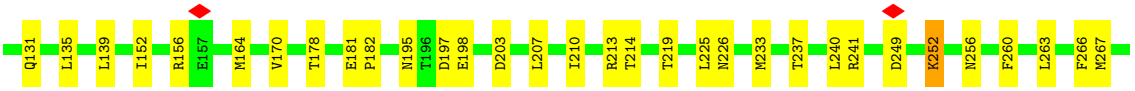

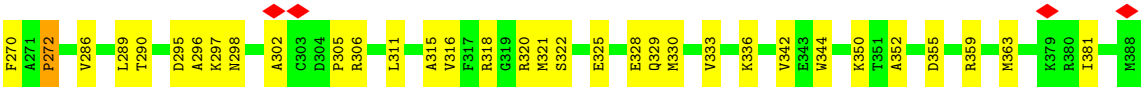

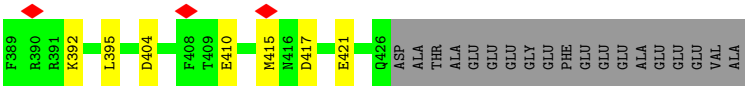

• Molecule 9: Tubulin beta-4B chain

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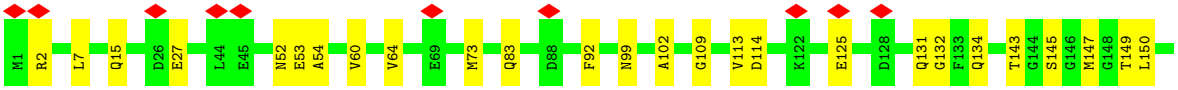

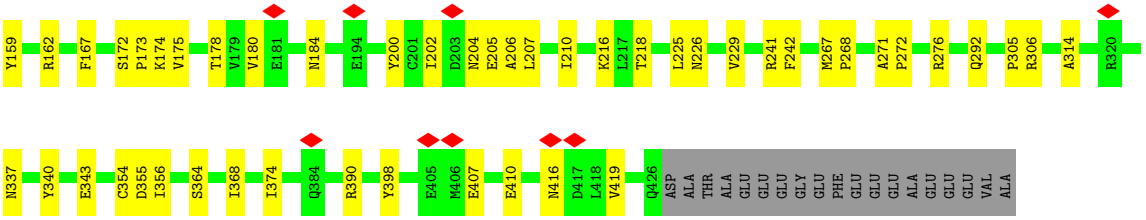

• Molecule 9: Tubulin beta-4B chain

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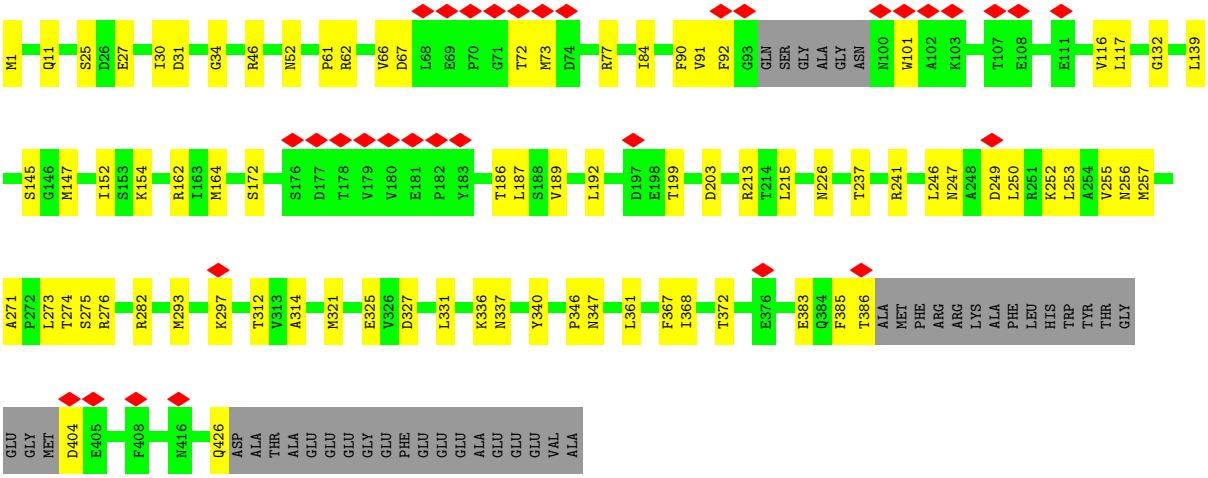

• Molecule 9: Tubulin beta-4B chain

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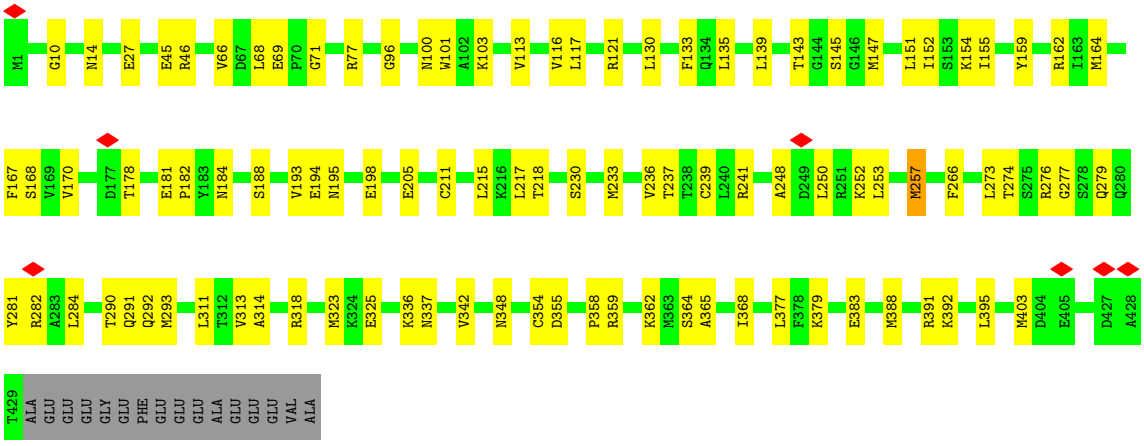

• Molecule 9: Tubulin beta-4B chain

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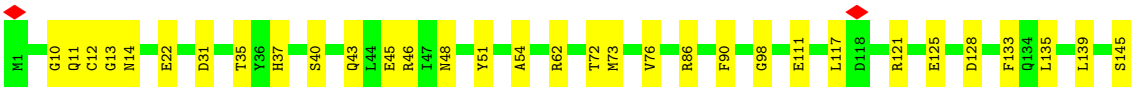
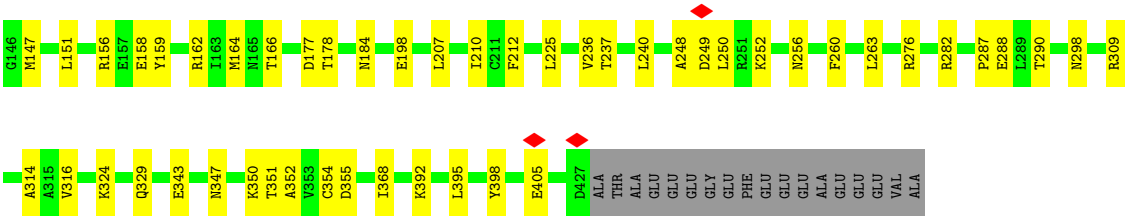
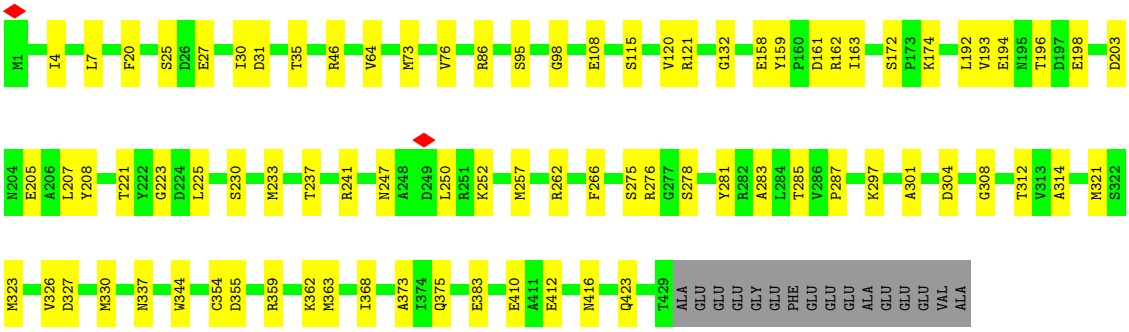




• Molecule 9: Tubulin beta-4B chain

Chain KH:



• Molecule 9: Tubulin beta-4B chain

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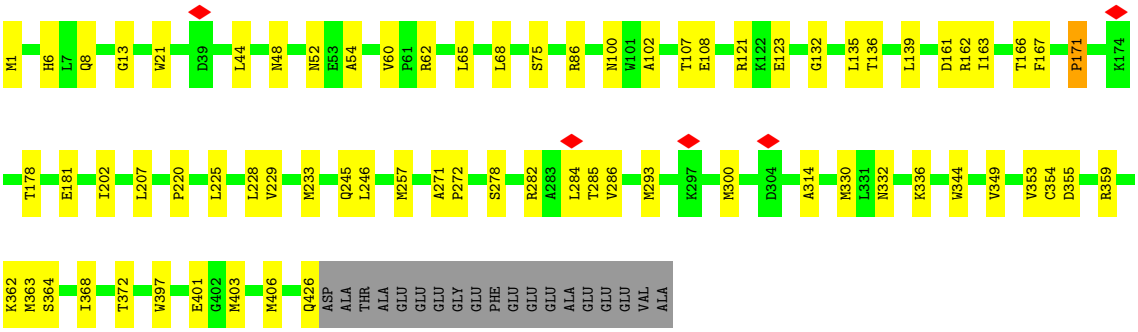

• Molecule 9: Tubulin beta-4B chain

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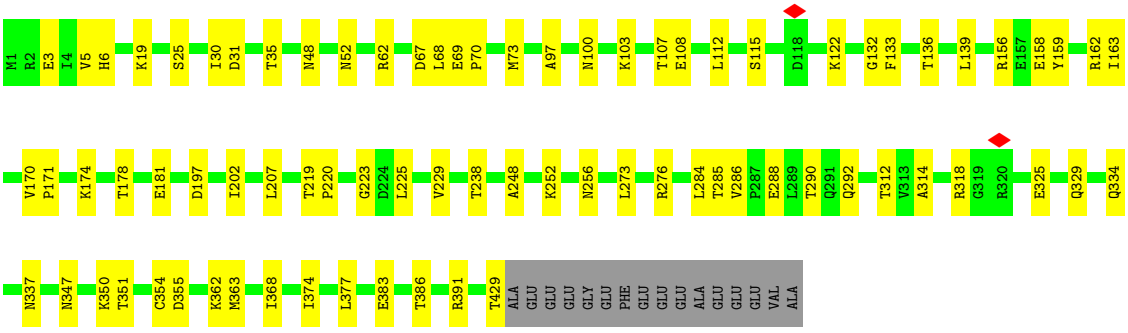

• Molecule 9: Tubulin beta-4B chain

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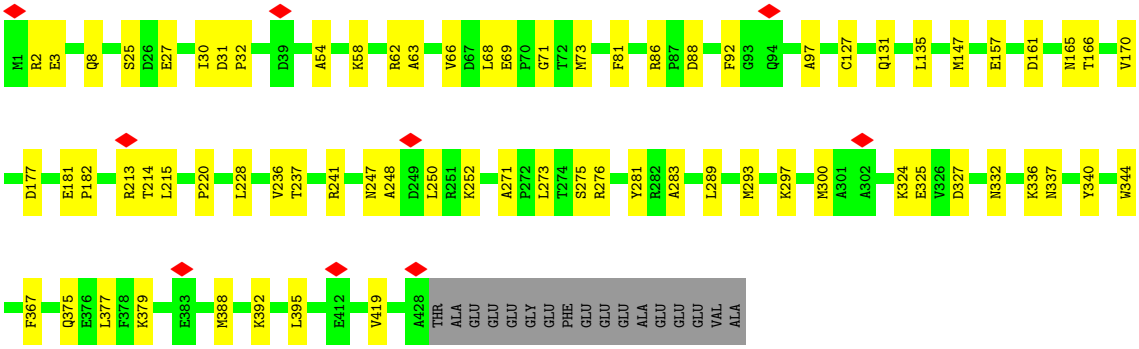

• Molecule 9: Tubulin beta-4B chain

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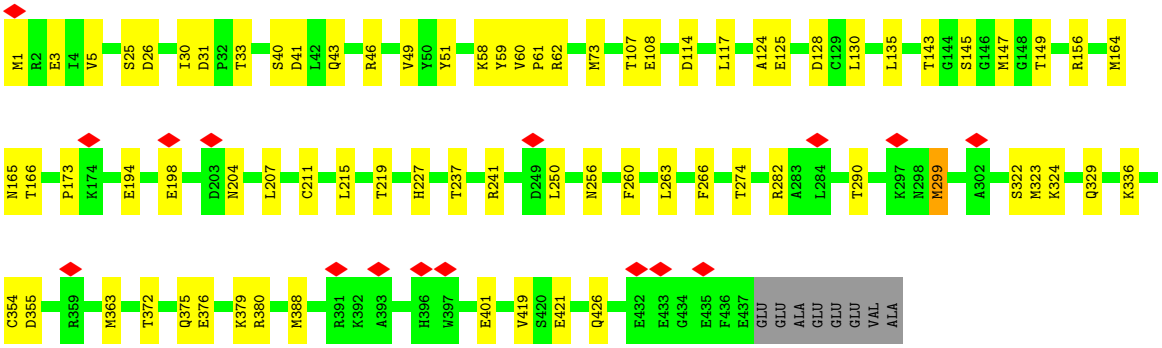
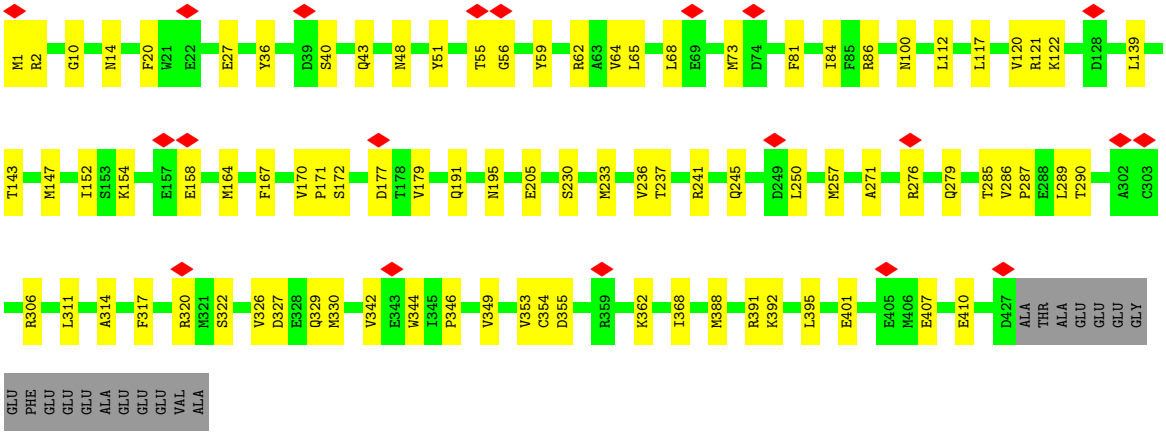


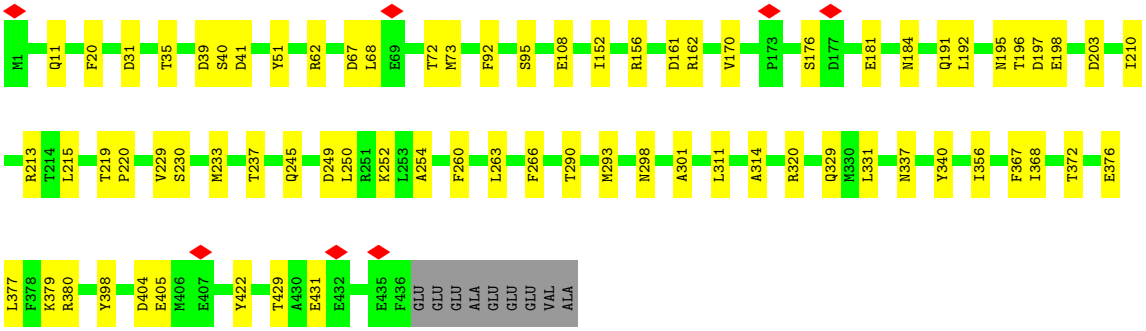
• Molecule 9: Tubulin beta-4B chain

Chain LD:

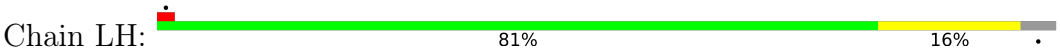


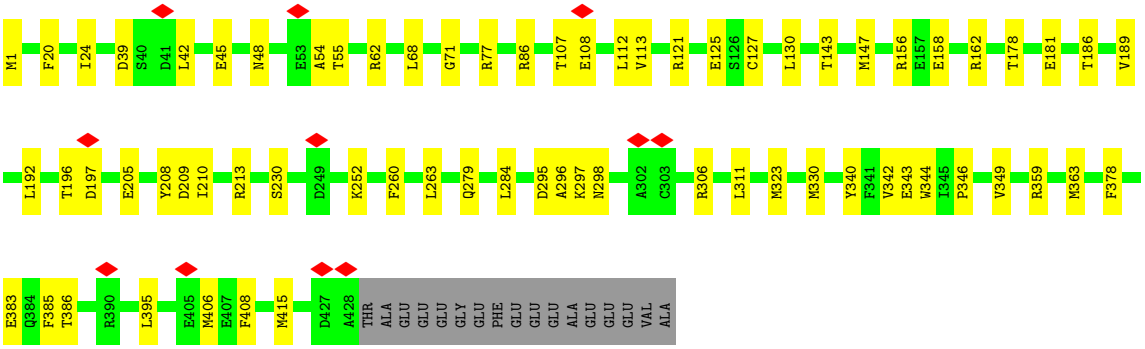
• Molecule 9: Tubulin beta-4B chain

Chain LF:

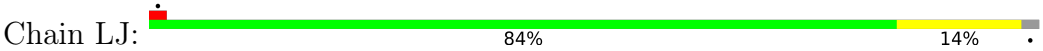


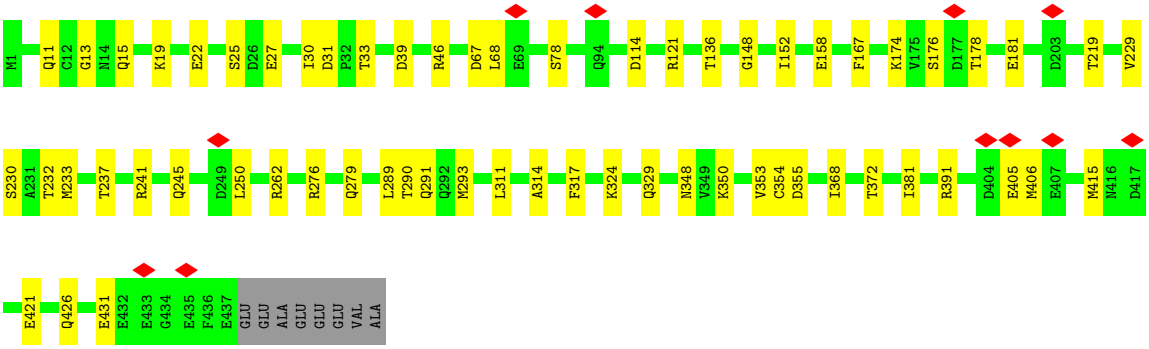
• Molecule 9: Tubulin beta-4B chain



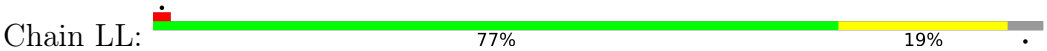


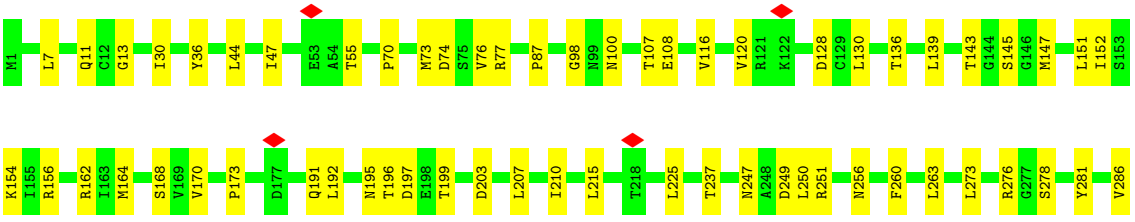
• Molecule 9: Tubulin beta-4B chain

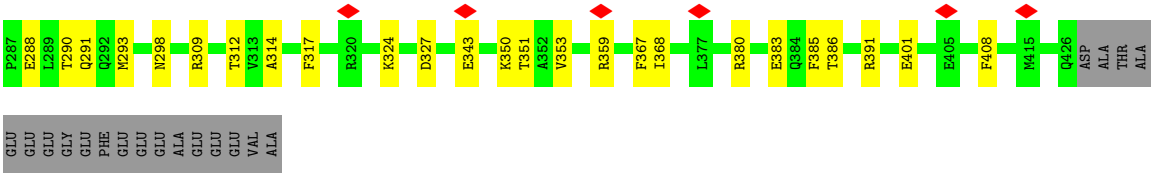




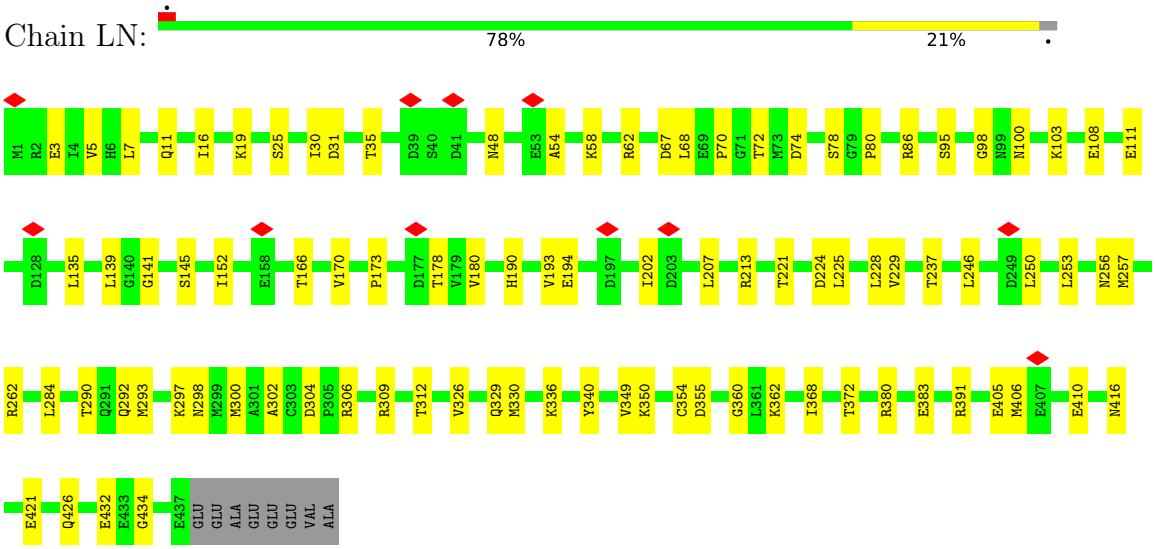
• Molecule 9: Tubulin beta-4B chain



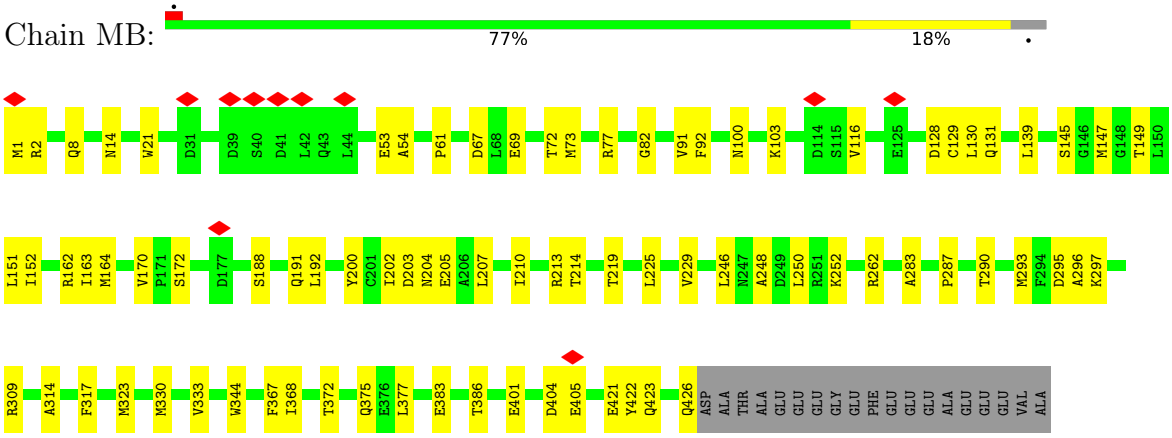




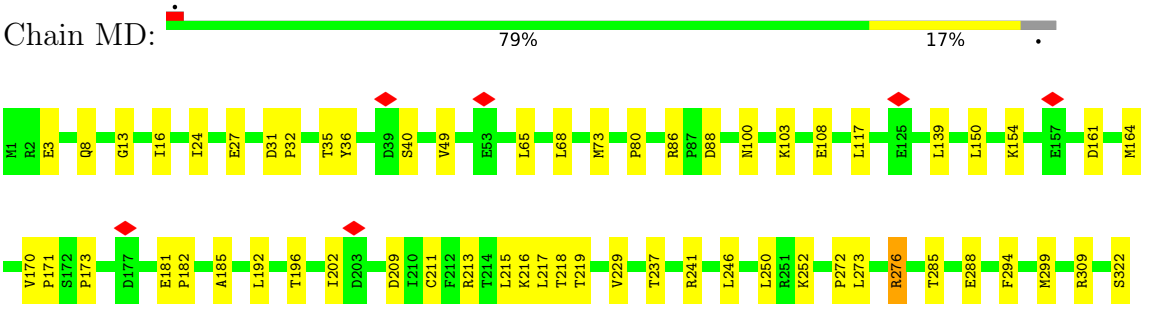
• Molecule 9: Tubulin beta-4B chain

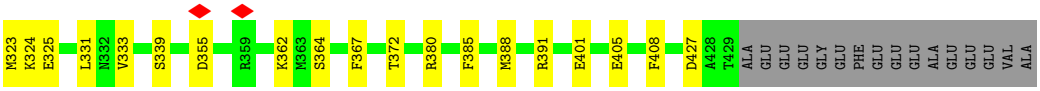


• Molecule 9: Tubulin beta-4B chain



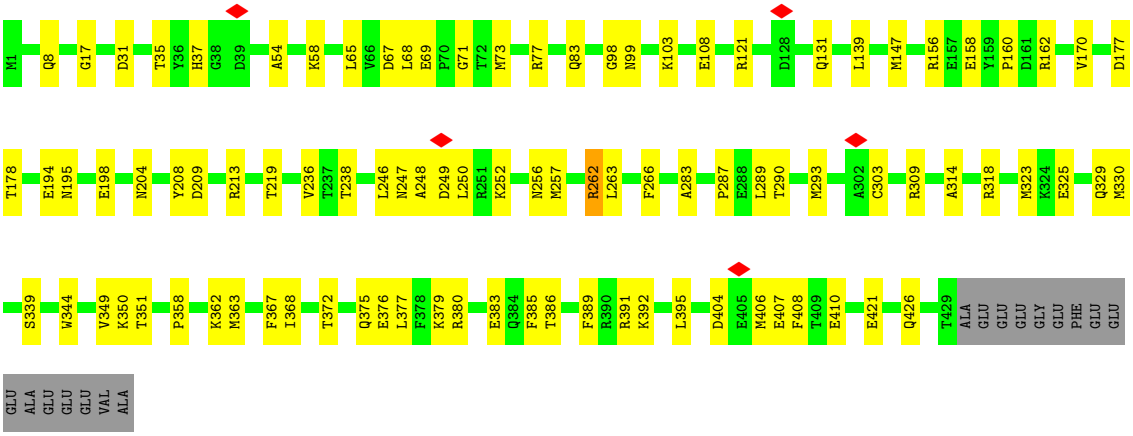
• Molecule 9: Tubulin beta-4B chain





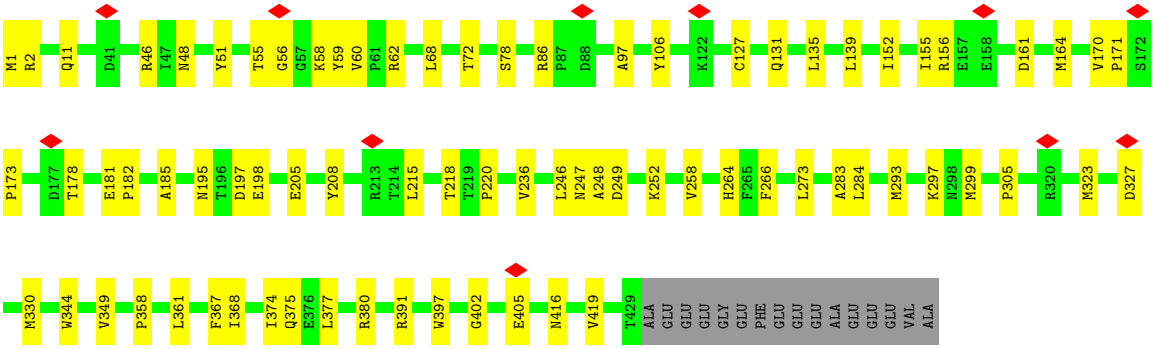
• Molecule 9: Tubulin beta-4B chain

Chain MF:



• Molecule 9: Tubulin beta-4B chain

Chain MH:



• Molecule 9: Tubulin beta-4B chain

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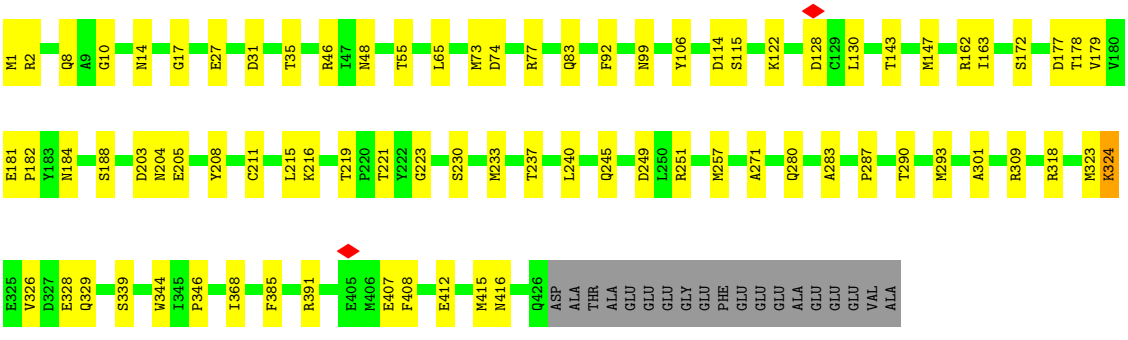

• Molecule 9: Tubulin beta-4B chain

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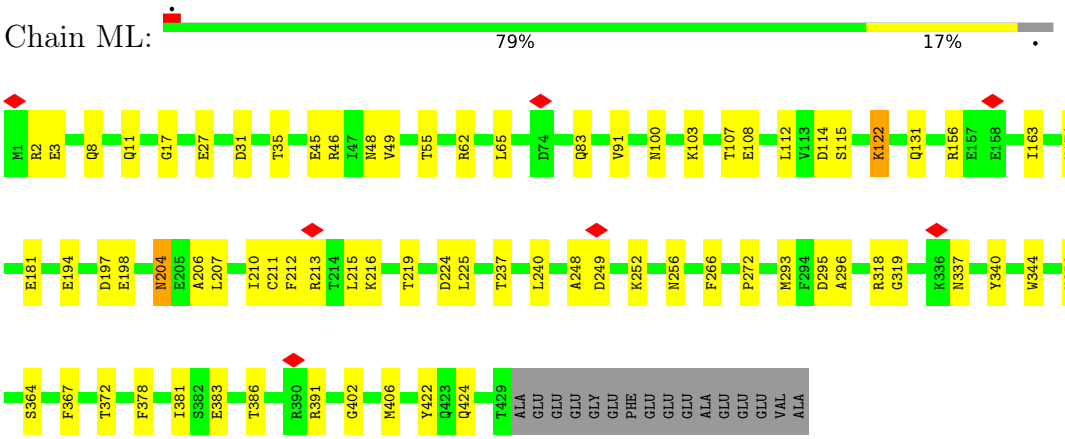

• Molecule 9: Tubulin beta-4B chain

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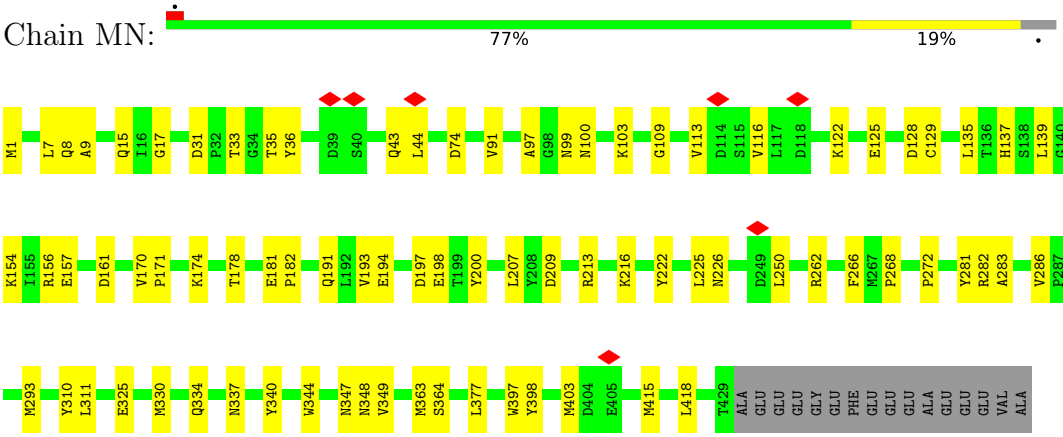

• Molecule 9: Tubulin beta-4B chain

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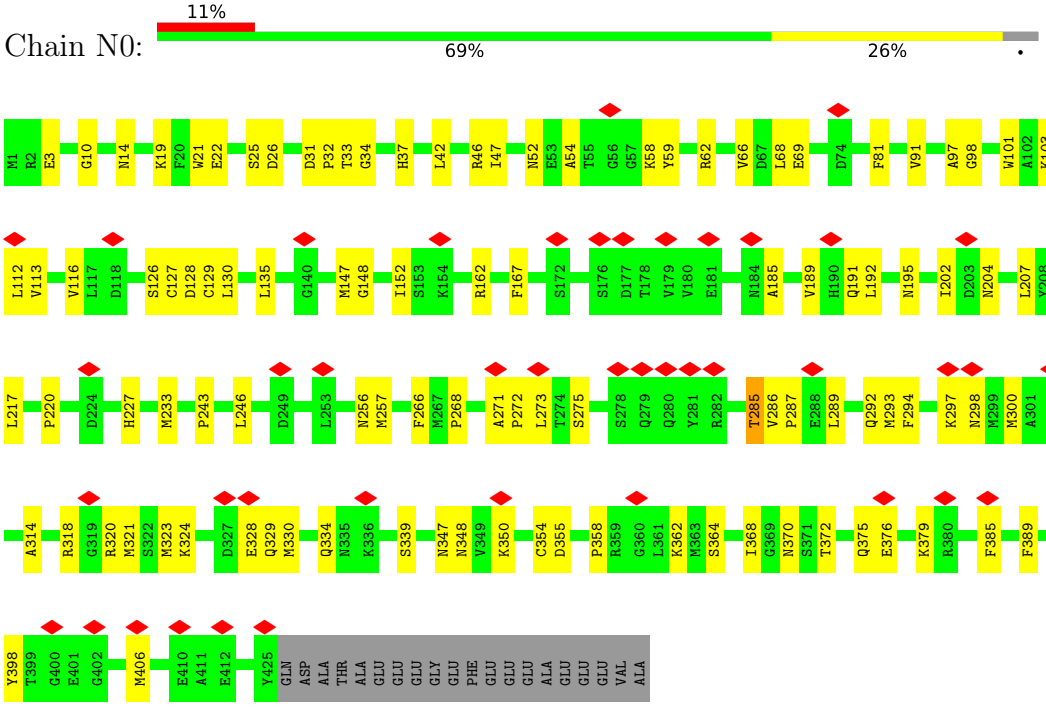

• Molecule 9: Tubulin beta-4B chain

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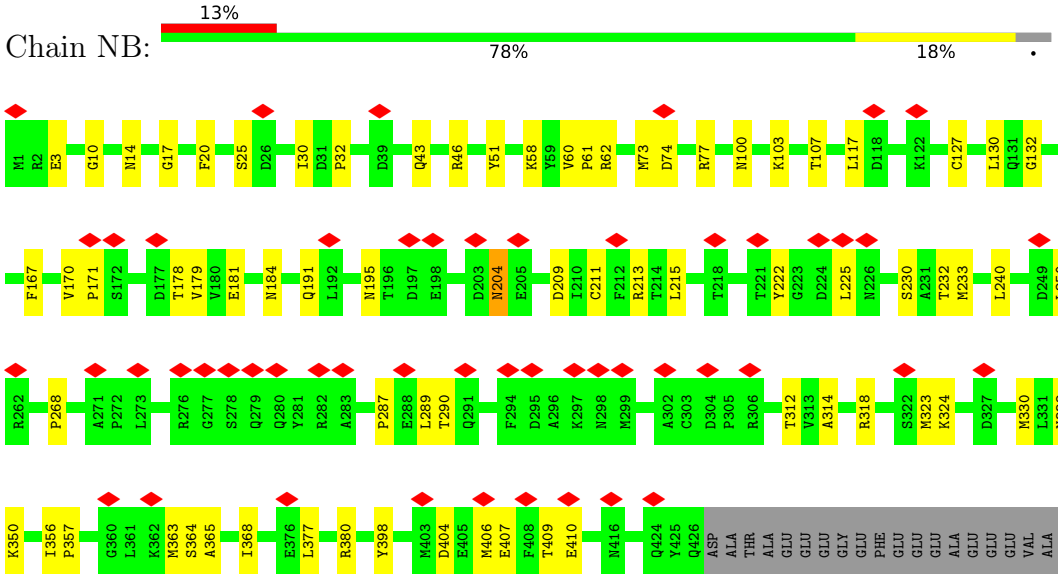

• Molecule 9: Tubulin beta-4B chain

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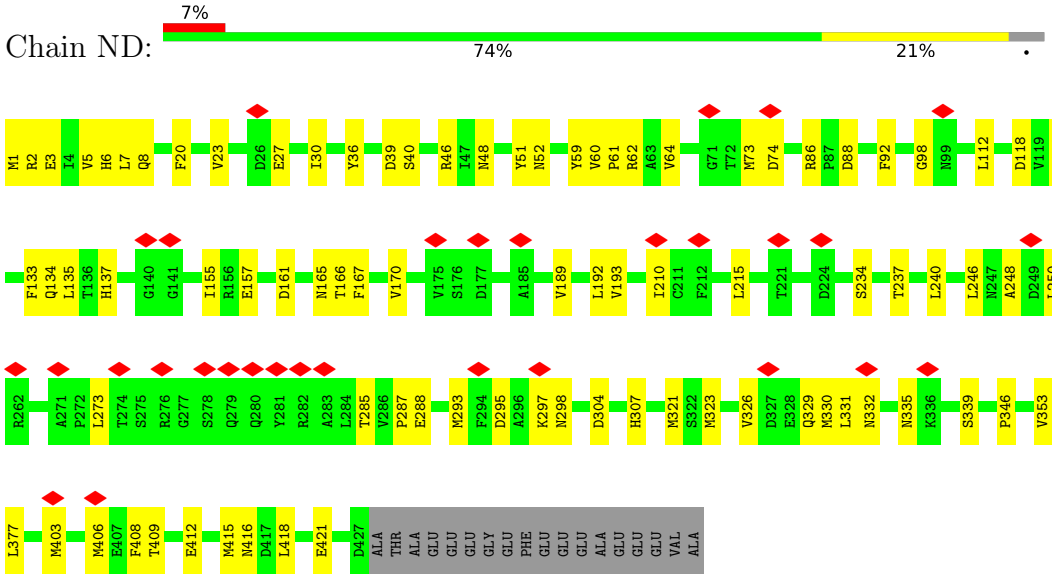

• Molecule 9: Tubulin beta-4B chain

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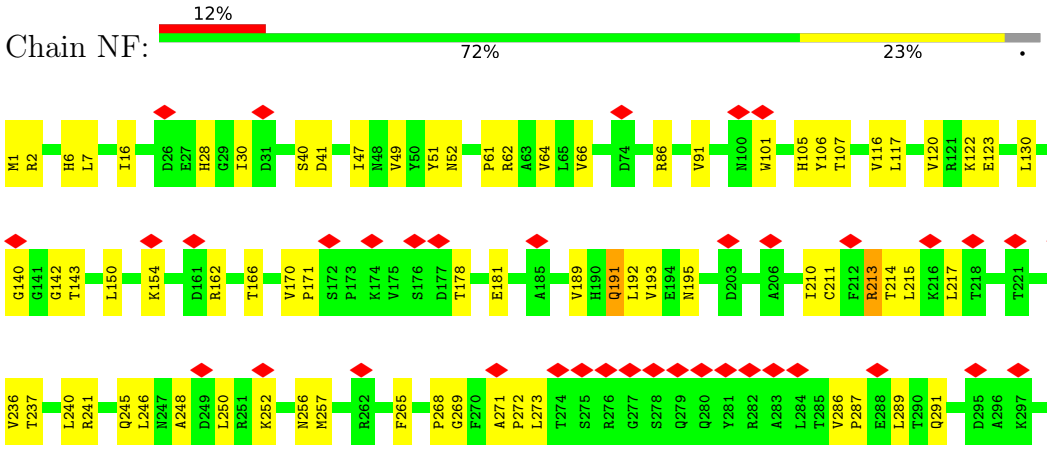

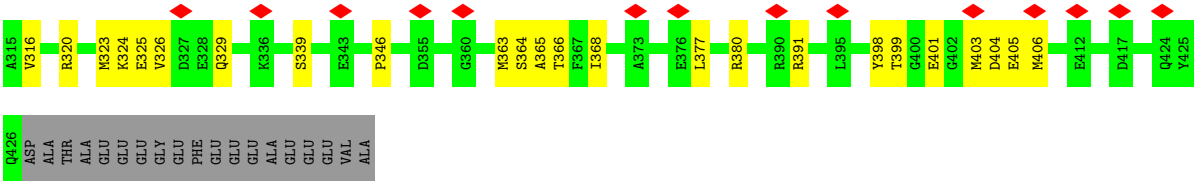

• Molecule 9: Tubulin beta-4B chain

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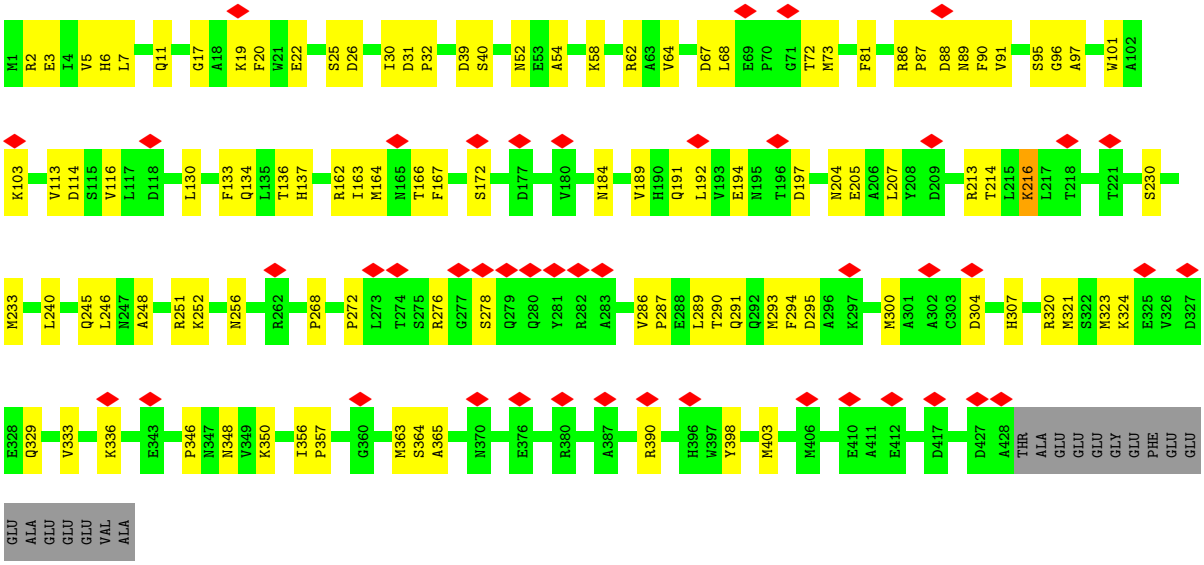

• Molecule 9: Tubulin beta-4B chain

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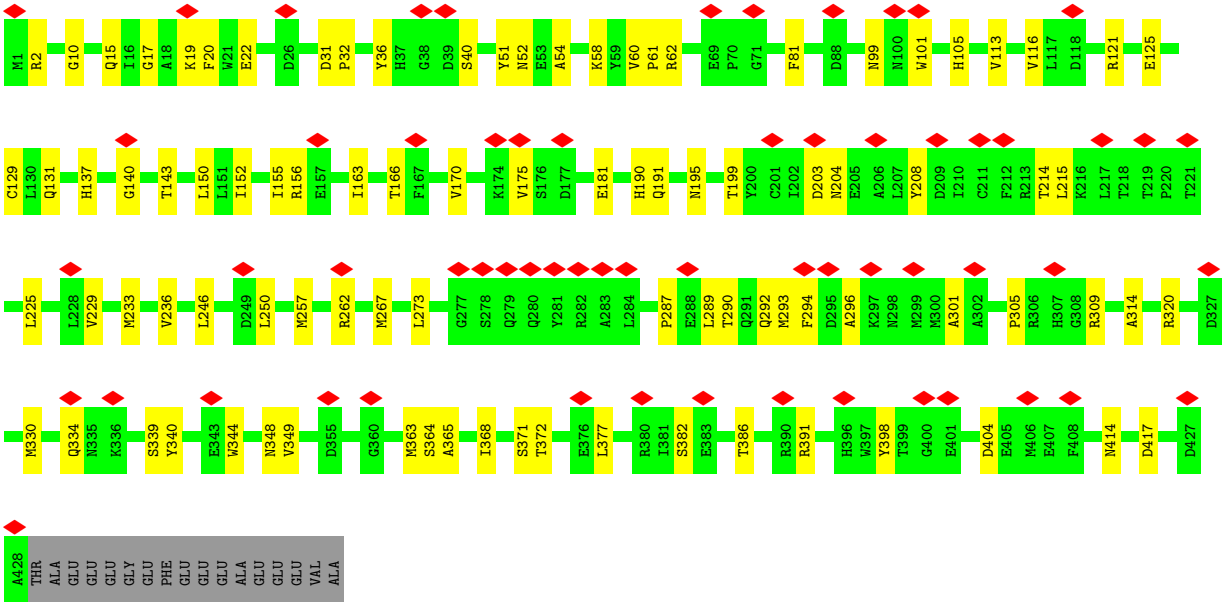

• Molecule 9: Tubulin beta-4B chain

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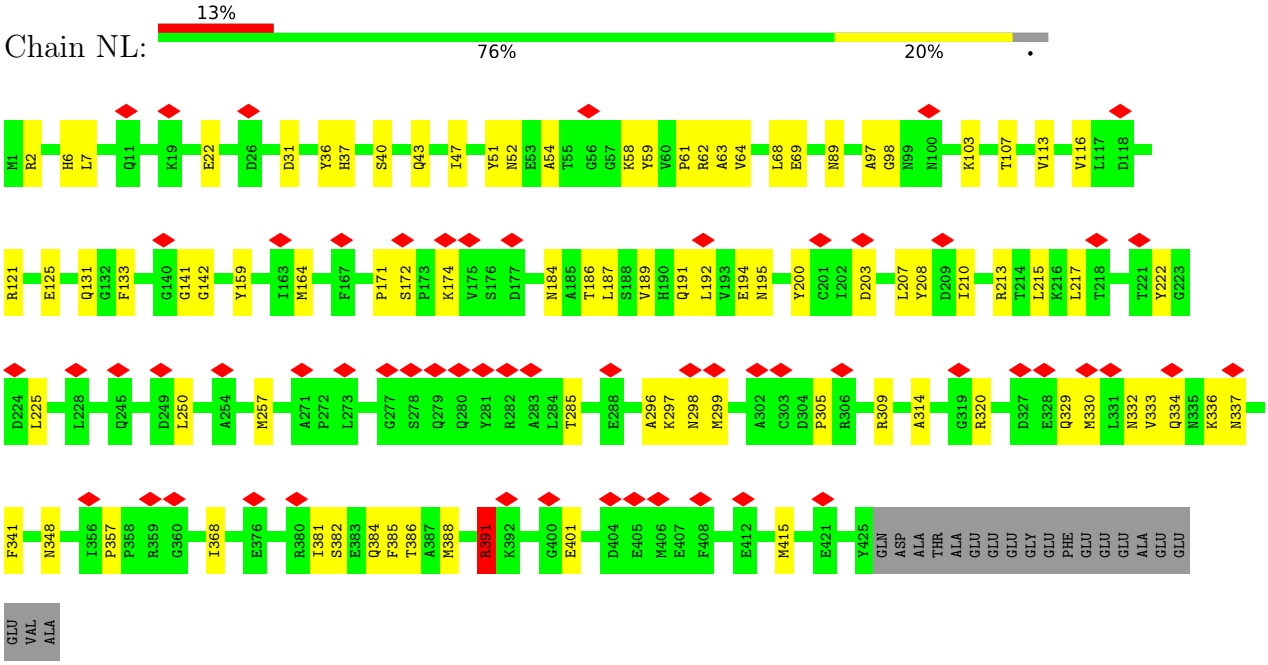

• Molecule 9: Tubulin beta-4B chain

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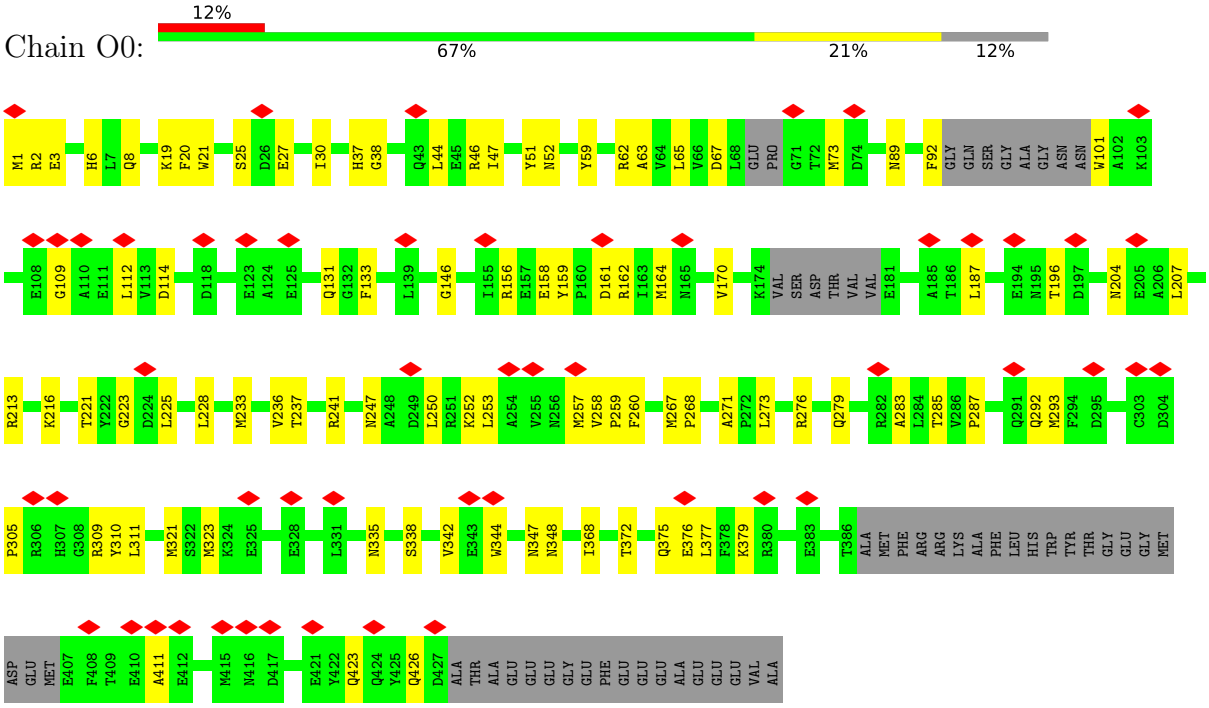

• Molecule 9: Tubulin beta-4B chain

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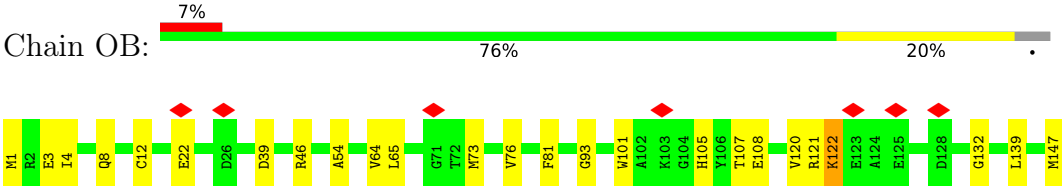
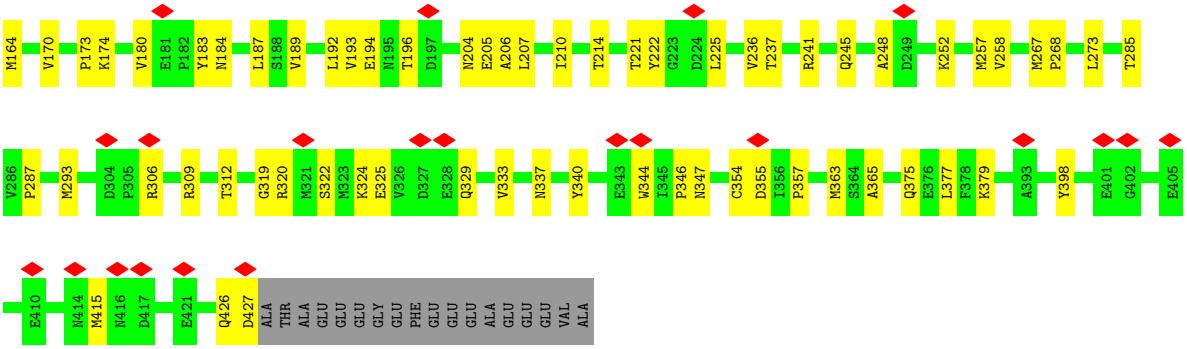
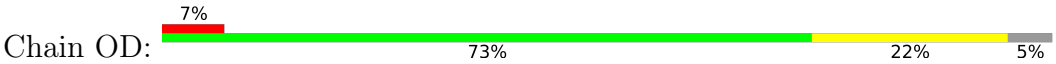
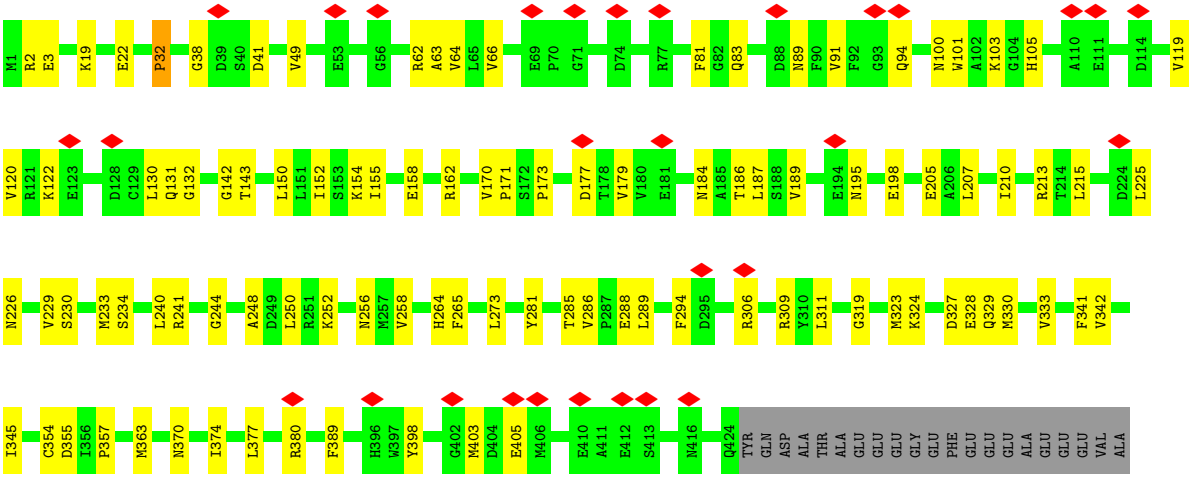


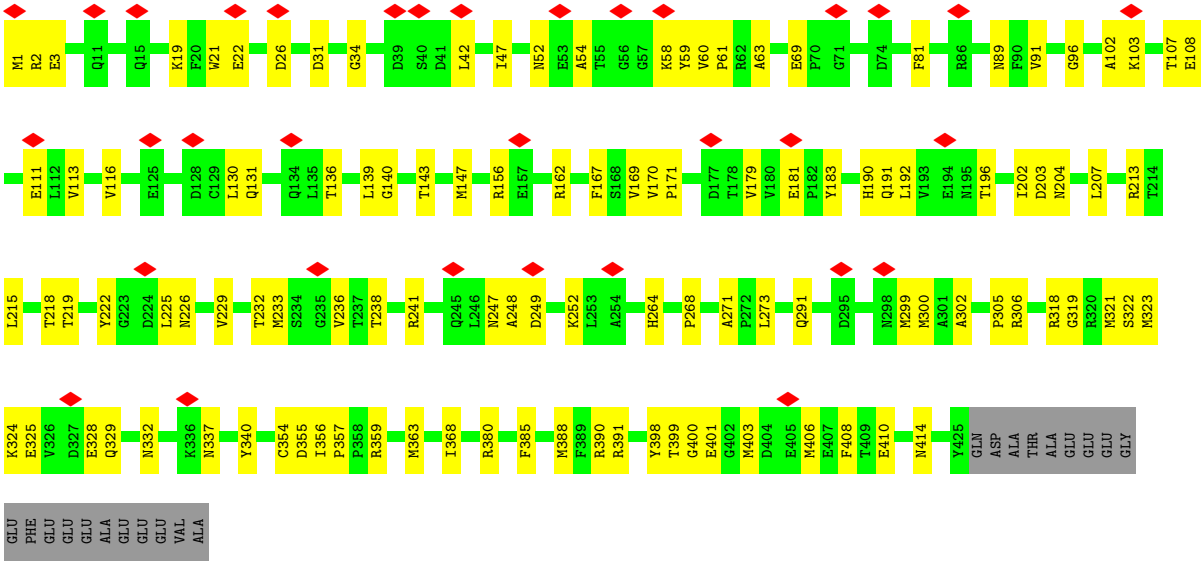


• Molecule 9: Tubulin beta-4B chain





• Molecule 9: Tubulin beta-4B chain



• Molecule 9: Tubulin beta-4B chain

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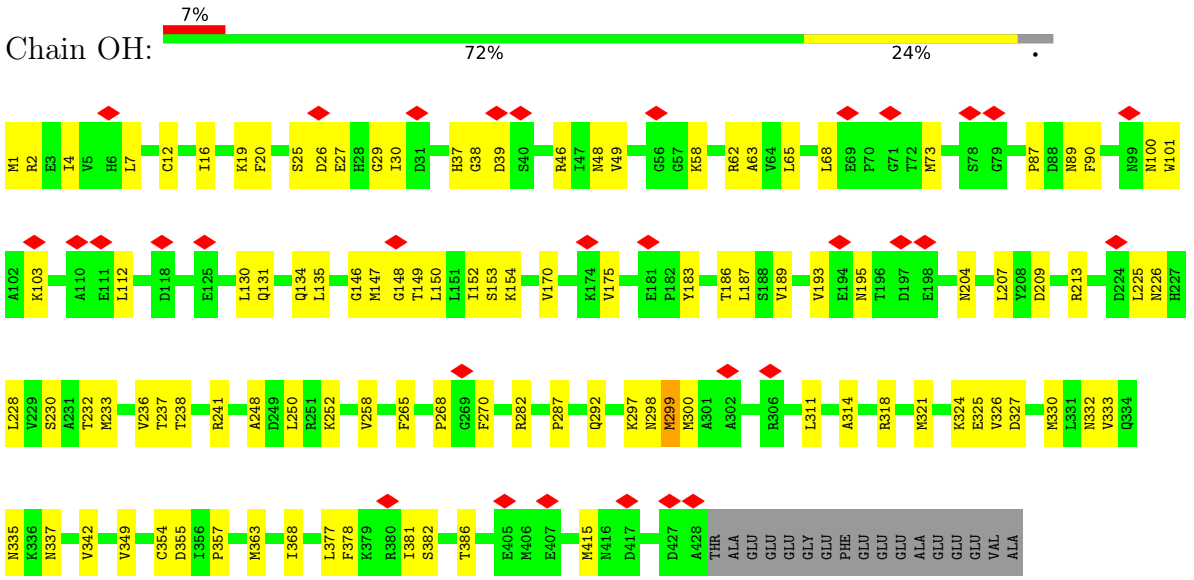
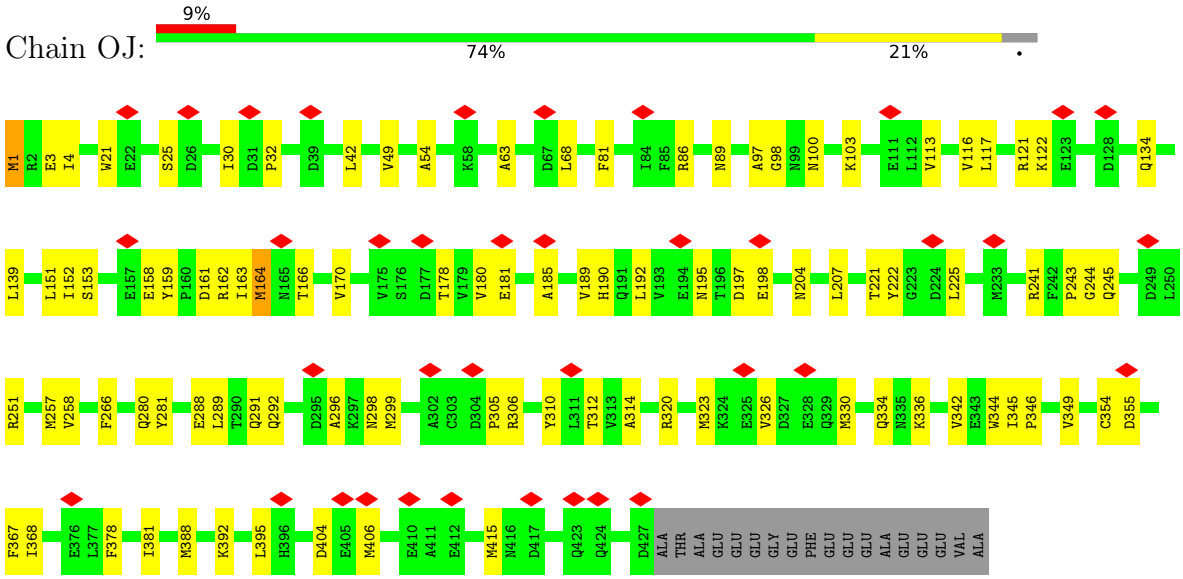


• Molecule 9: Tubulin beta-4B chain

Chain OJ:



• Molecule 9: Tubulin beta-4B chain

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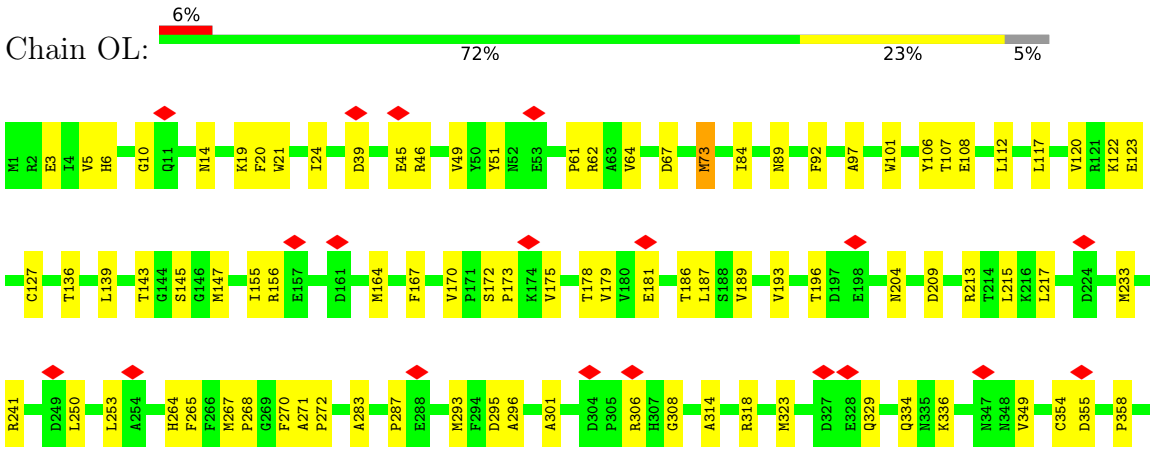

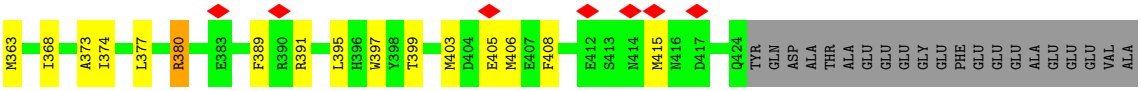

• Molecule 9: Tubulin beta-4B chain

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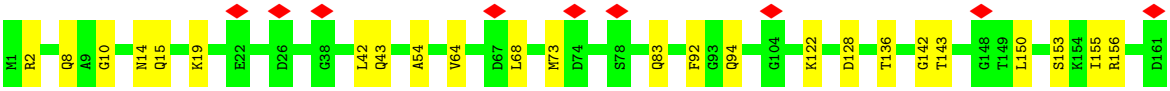

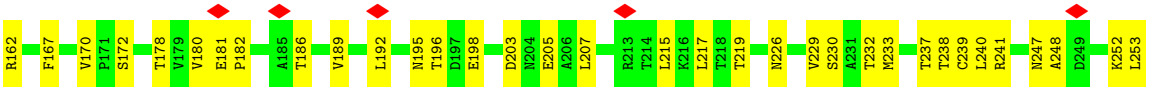

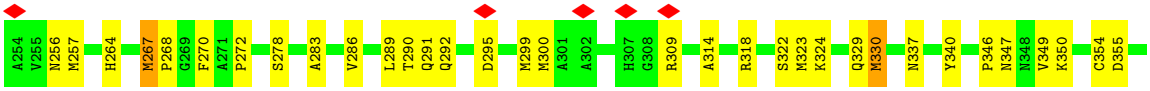

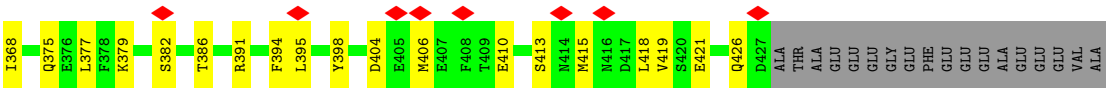

• Molecule 9: Tubulin beta-4B chain

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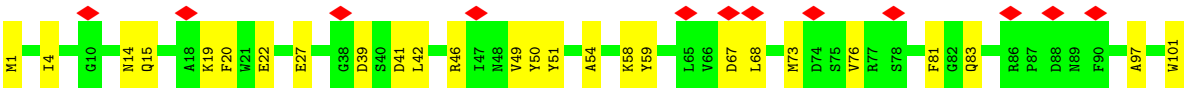
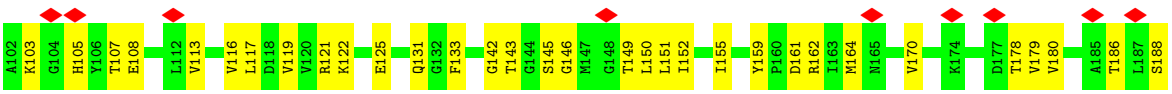
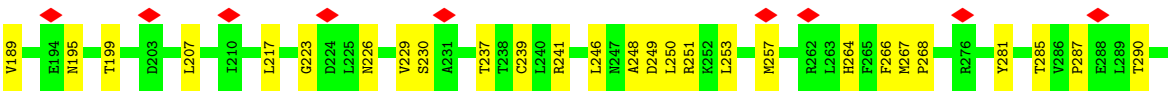
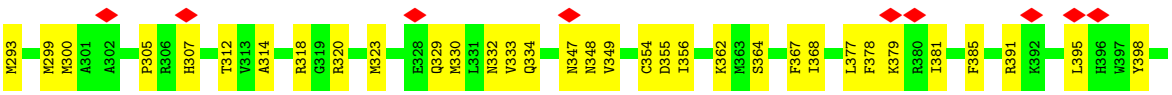
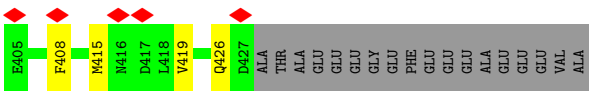




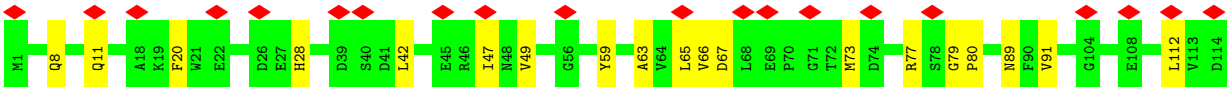


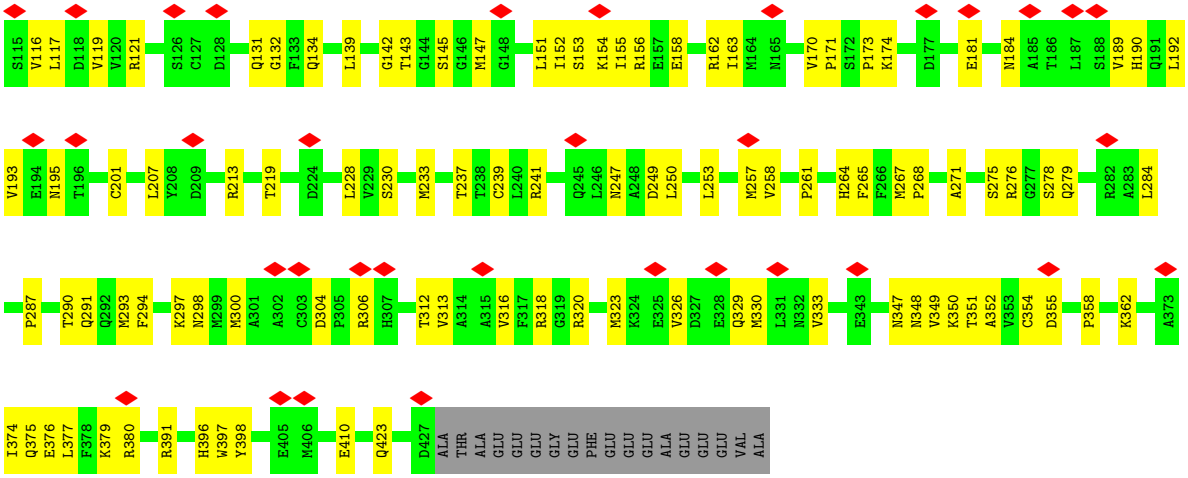




• Molecule 9: Tubulin beta-4B chain

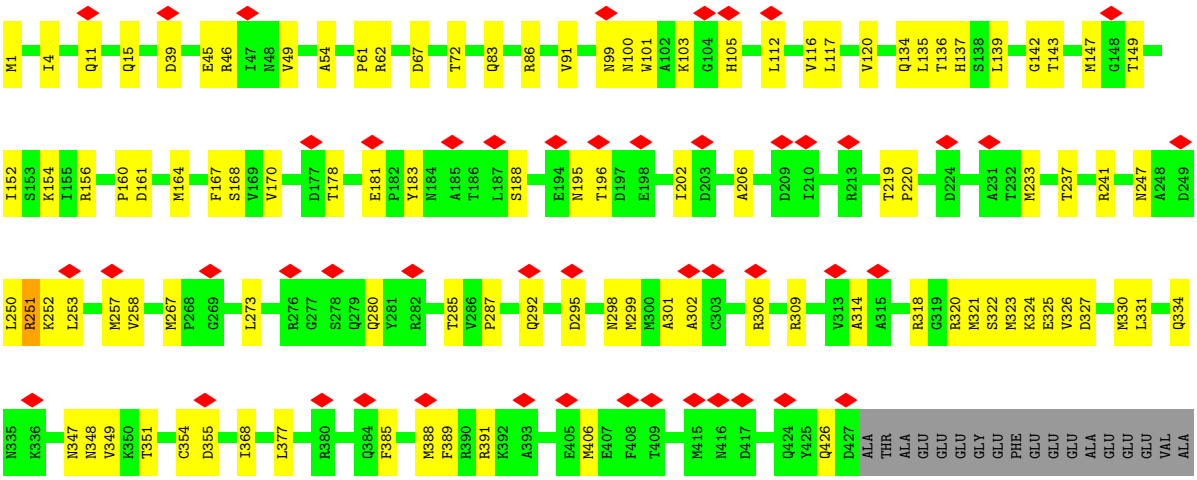
Chain PF:





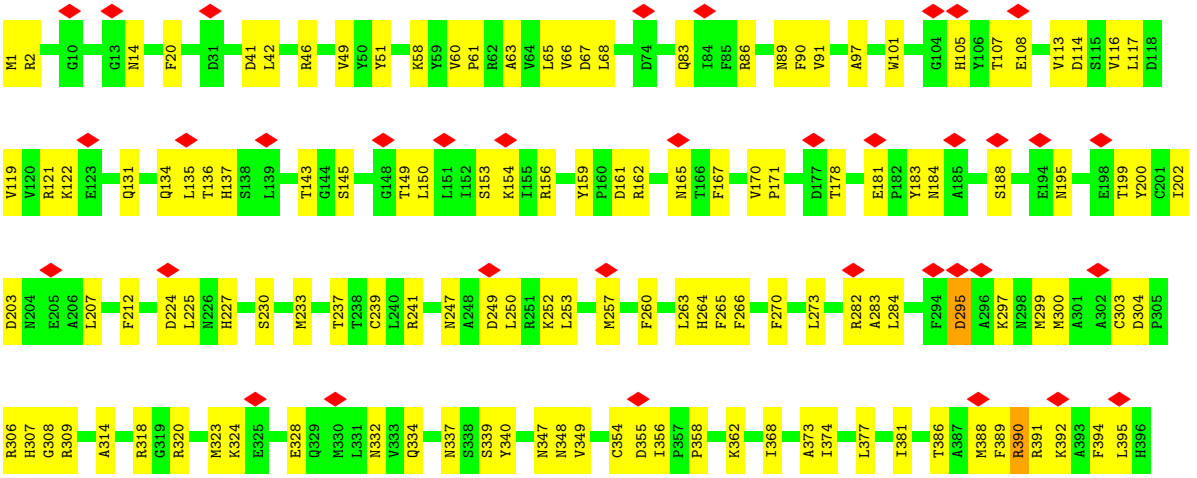
• Molecule 9: Tubulin beta-4B chain

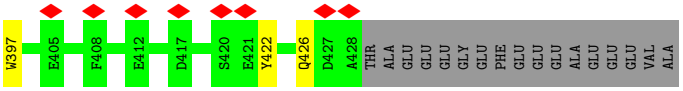
Chain PH:



• Molecule 9: Tubulin beta-4B chain

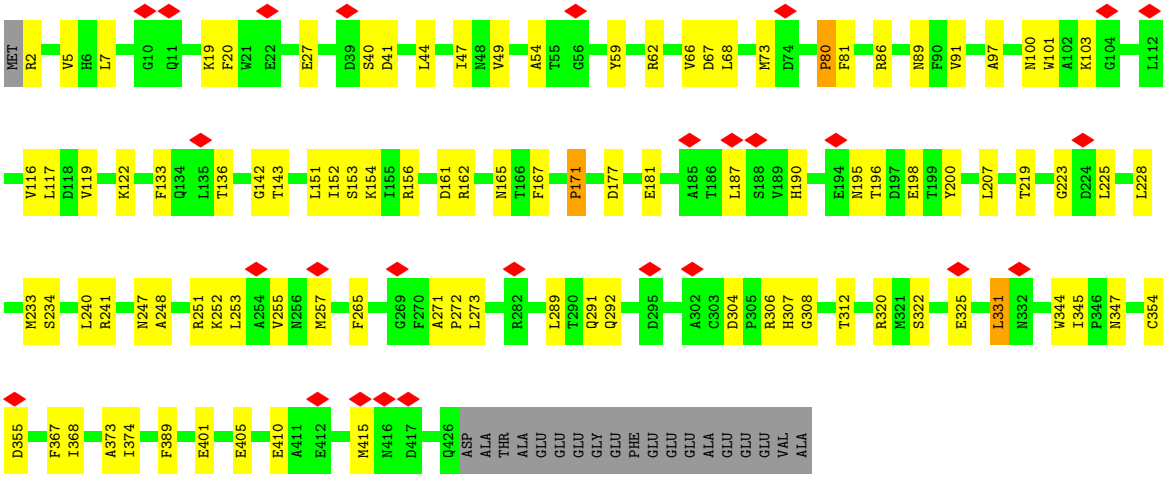
Chain PJ:





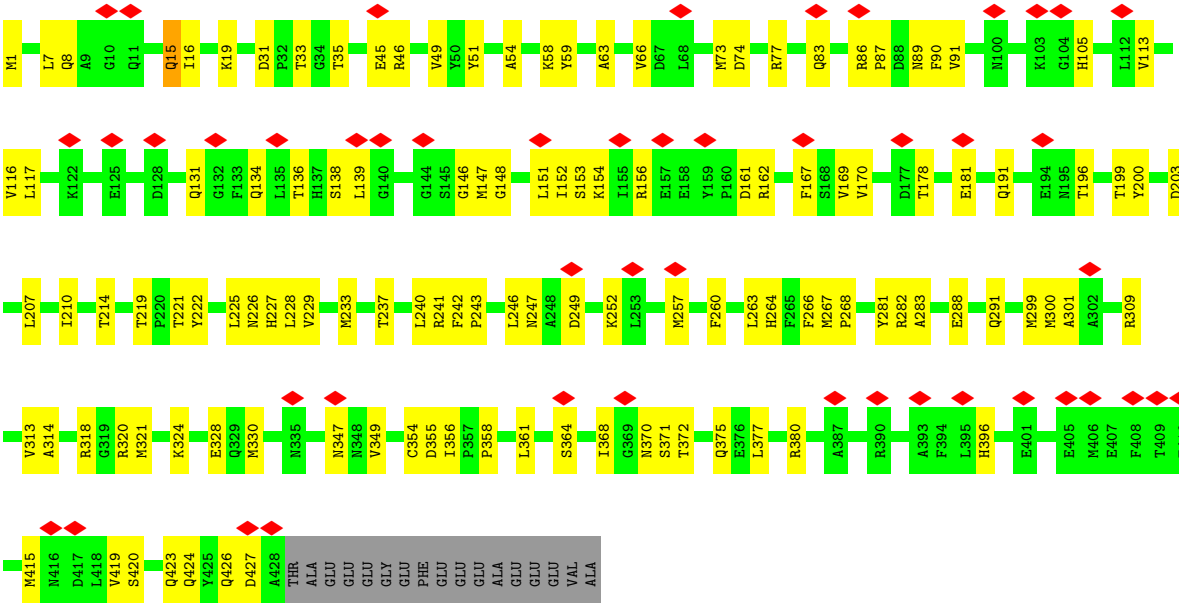
• Molecule 9: Tubulin beta-4B chain

Chain PL:



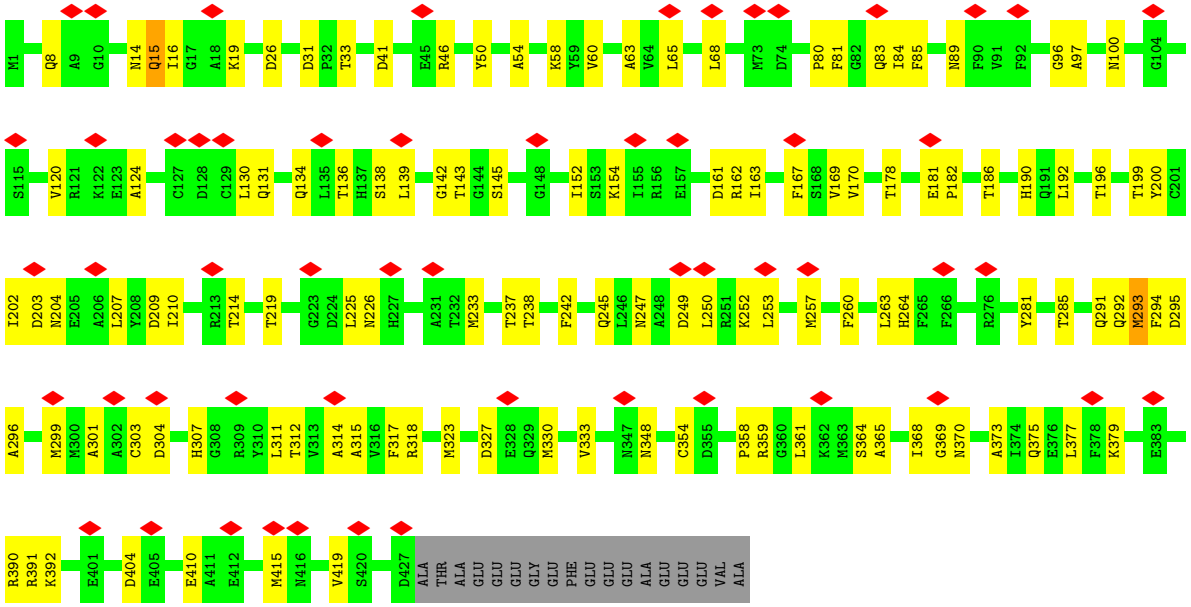
• Molecule 9: Tubulin beta-4B chain

Chain QB:



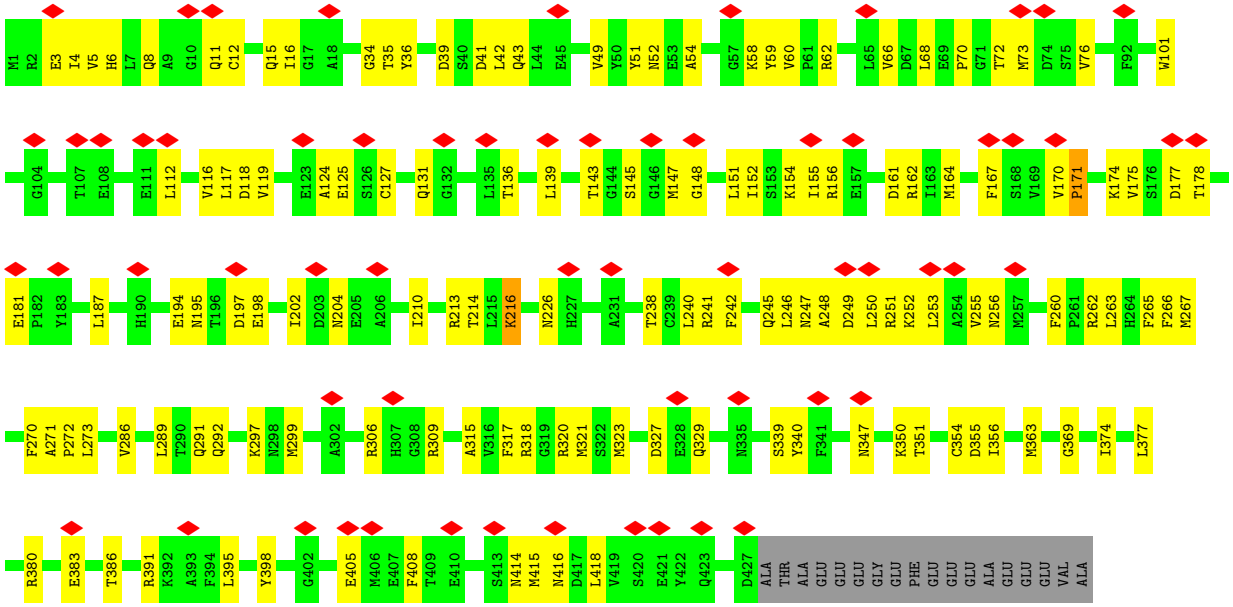
• Molecule 9: Tubulin beta-4B chain

Chain QD:



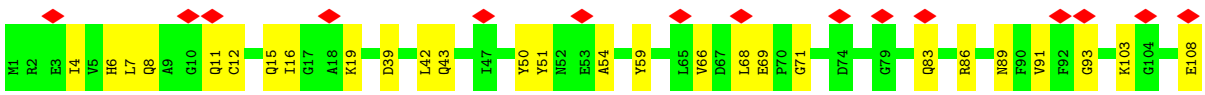
• Molecule 9: Tubulin beta-4B chain

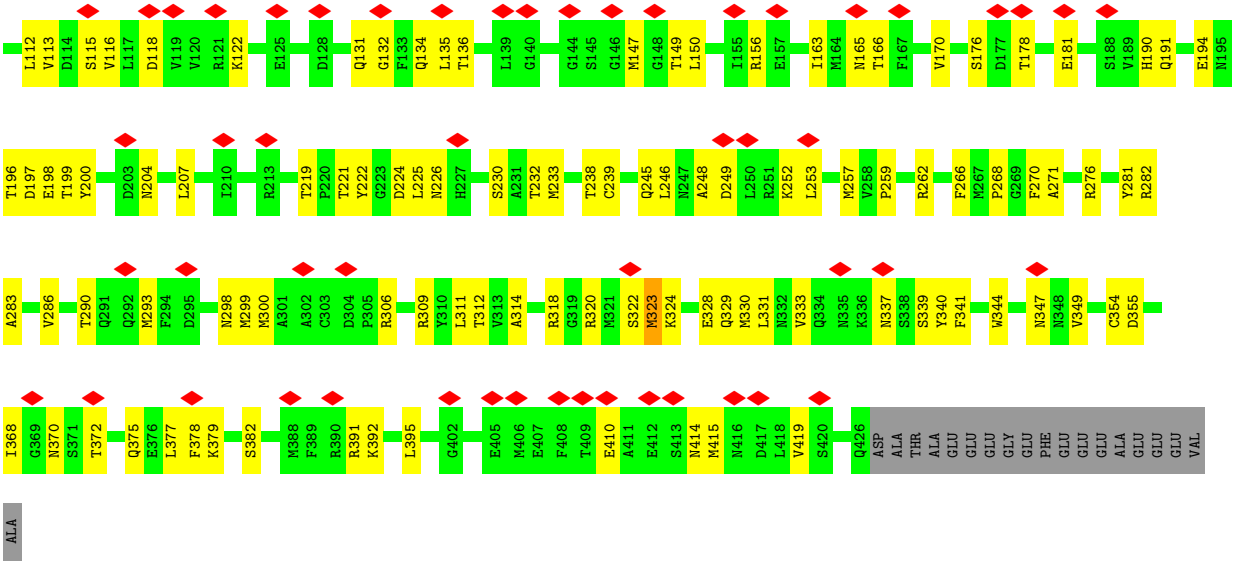
Chain QF:



• Molecule 9: Tubulin beta-4B chain

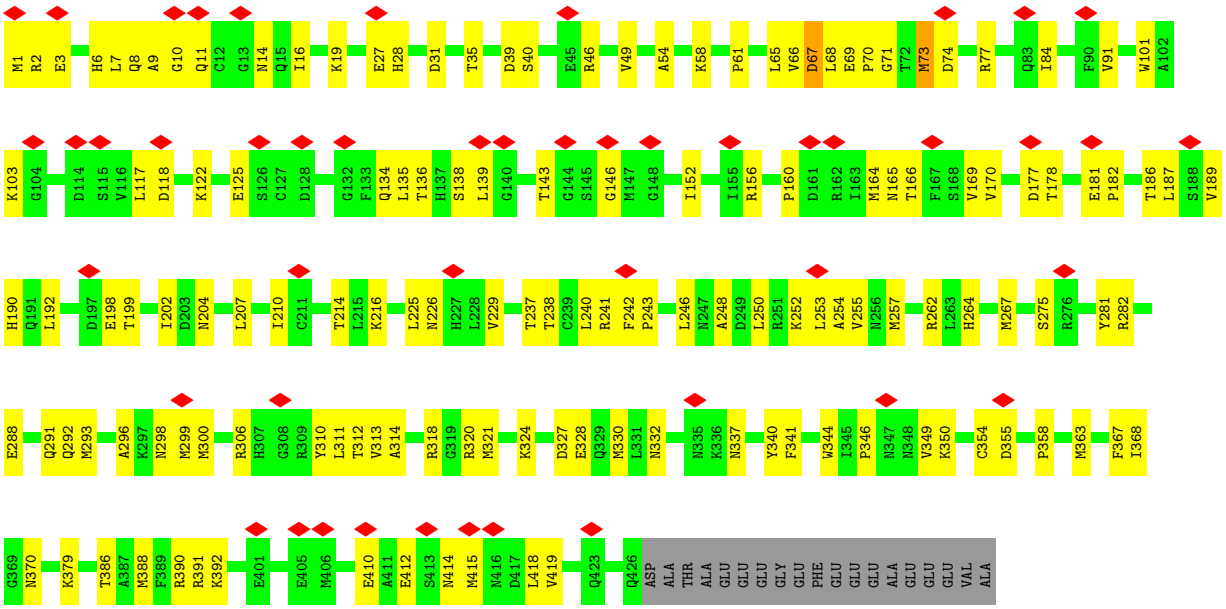
Chain QH:





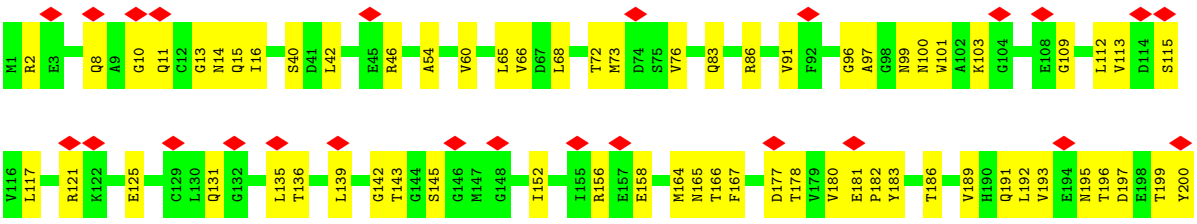
• Molecule 9: Tubulin beta-4B chain

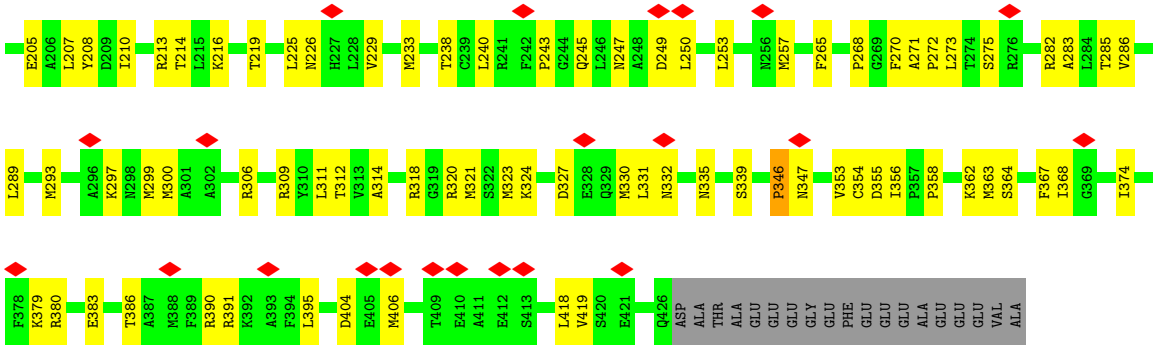
Chain QJ:



• Molecule 9: Tubulin beta-4B chain

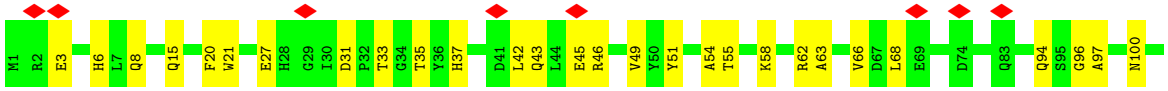
Chain QL:





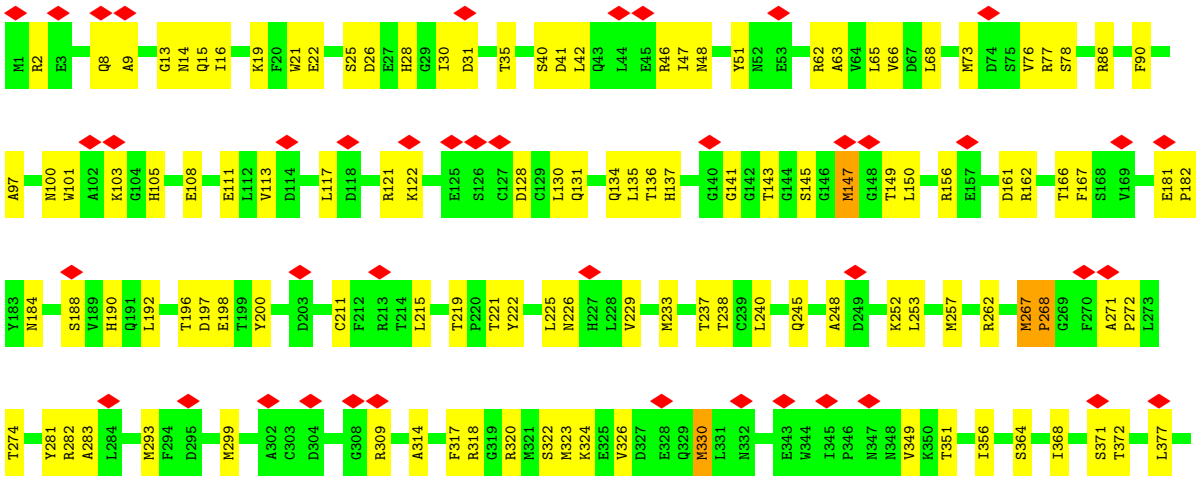
• Molecule 9: Tubulin beta-4B chain

Chain RB:



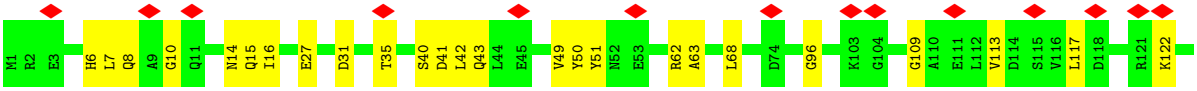
• Molecule 9: Tubulin beta-4B chain

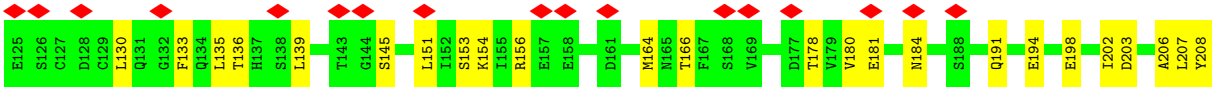
Chain RD:

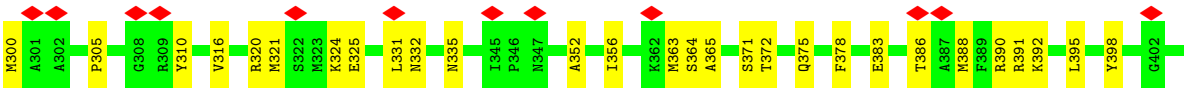


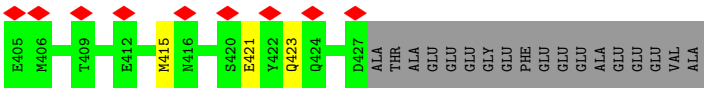
• Molecule 9: Tubulin beta-4B chain

Chain RF:



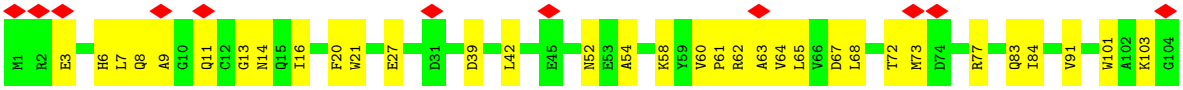


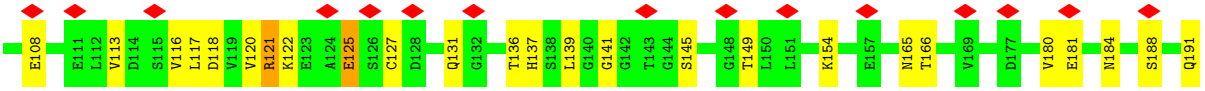


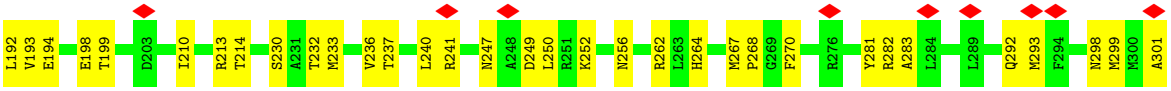


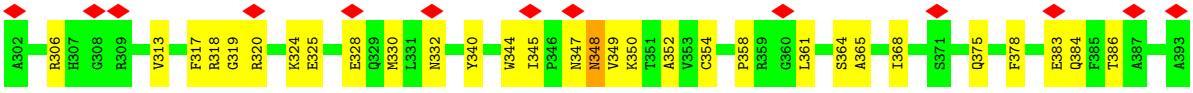
• Molecule 9: Tubulin beta-4B chain

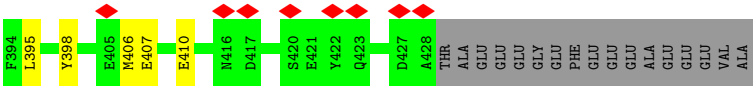
Chain RH:





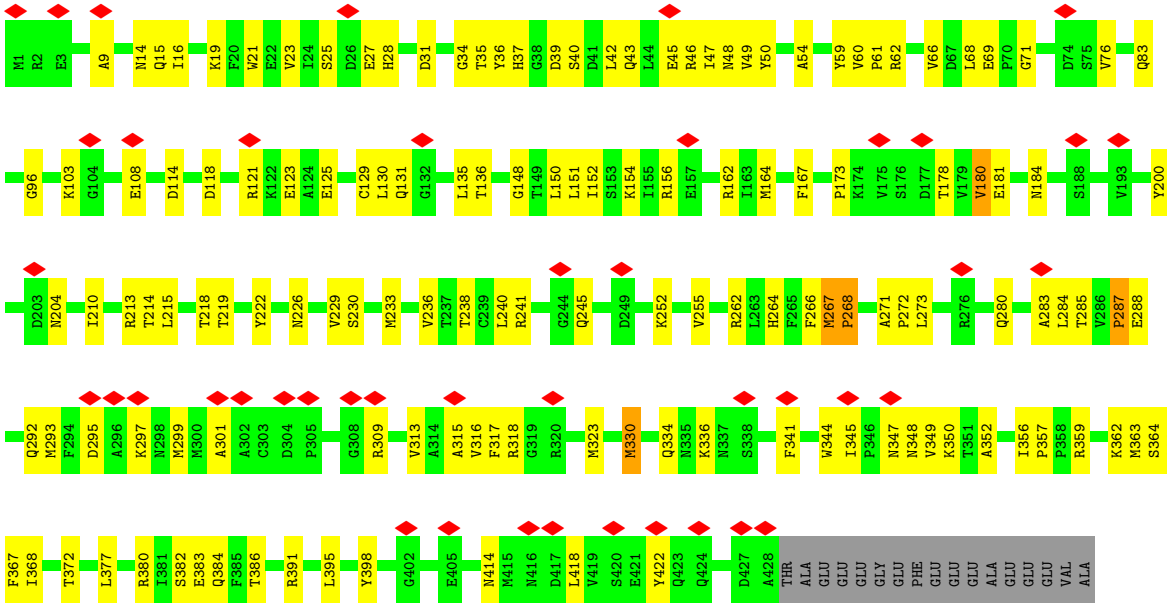






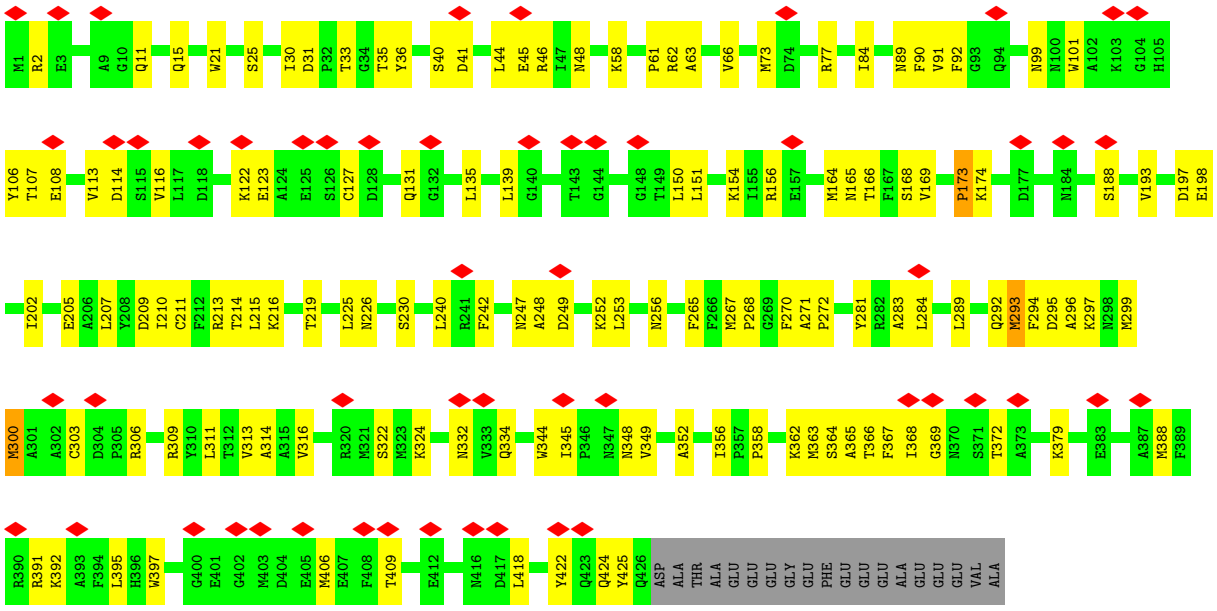
• Molecule 9: Tubulin beta-4B chain

Chain RJ:



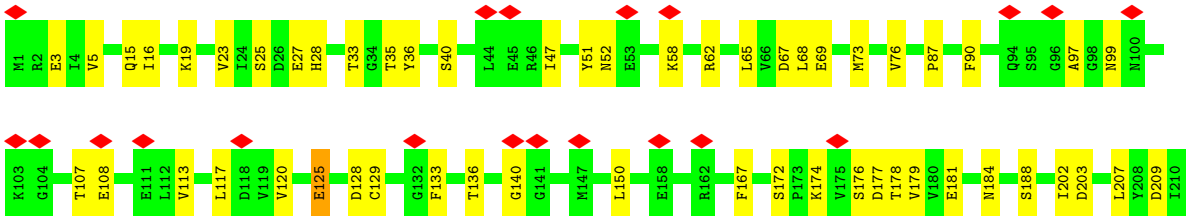
• Molecule 9: Tubulin beta-4B chain

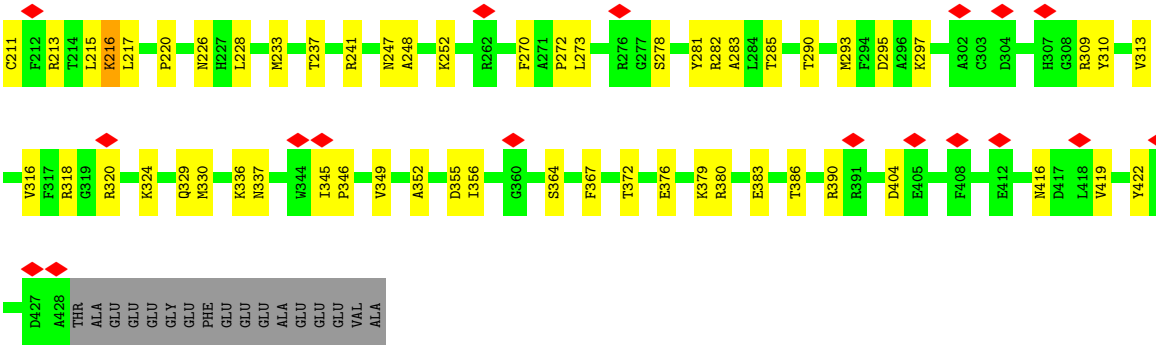
Chain RL:



• Molecule 9: Tubulin beta-4B chain

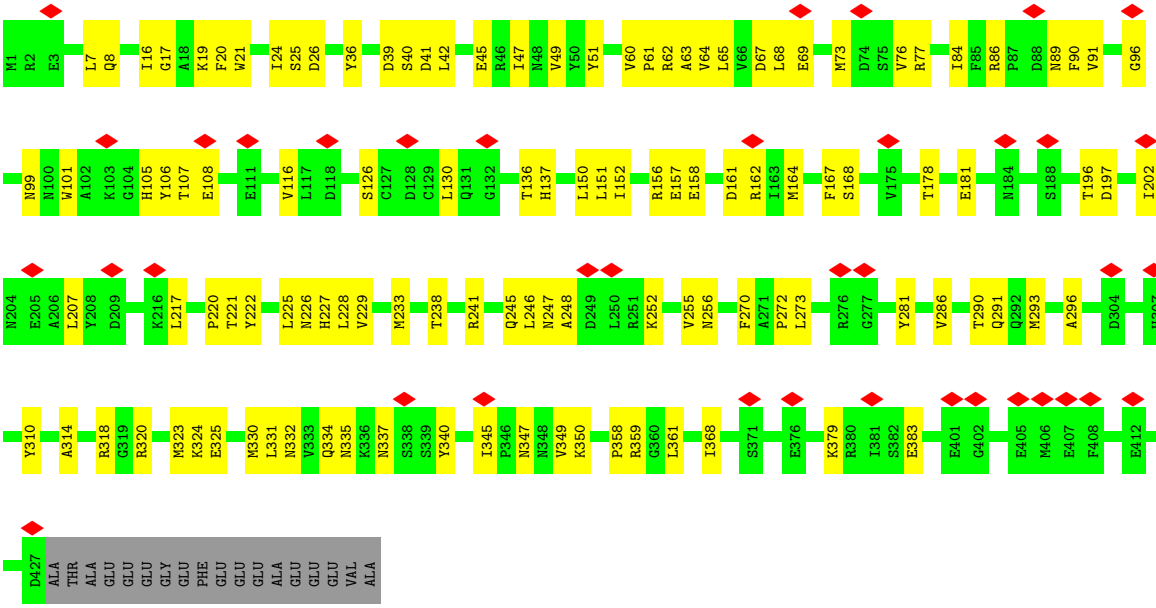
Chain SB:





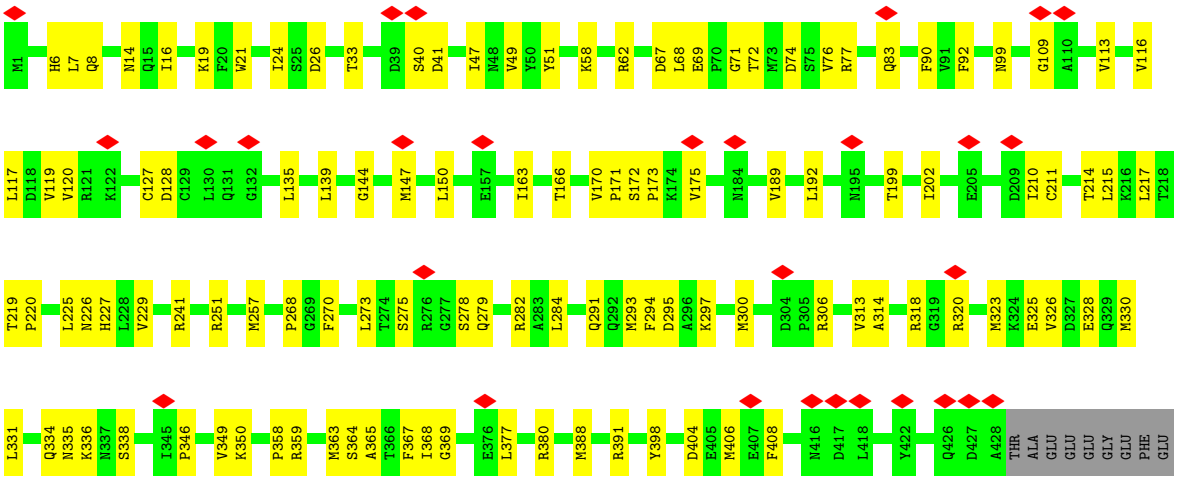
• Molecule 9: Tubulin beta-4B chain

Chain SD:



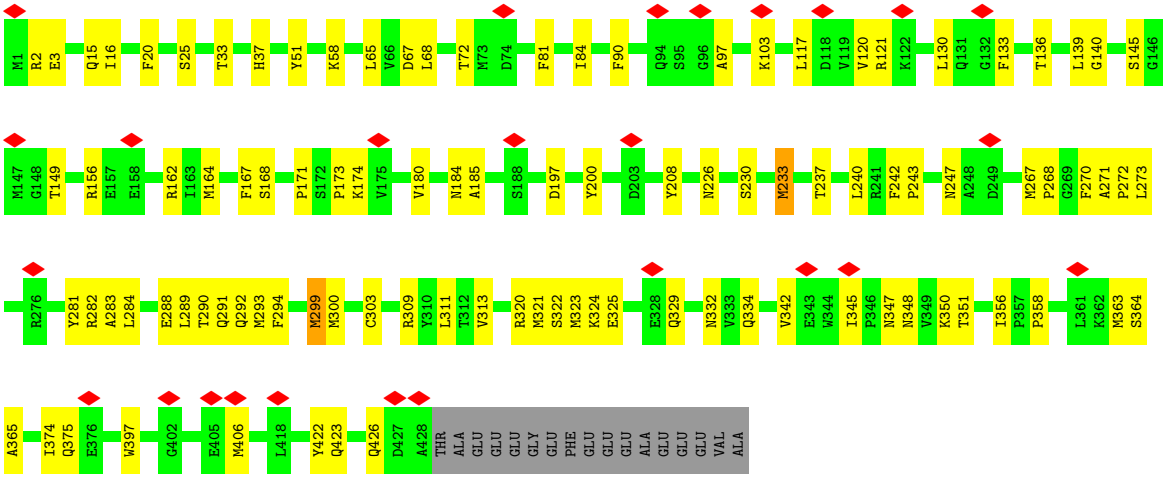
• Molecule 9: Tubulin beta-4B chain

Chain SF:



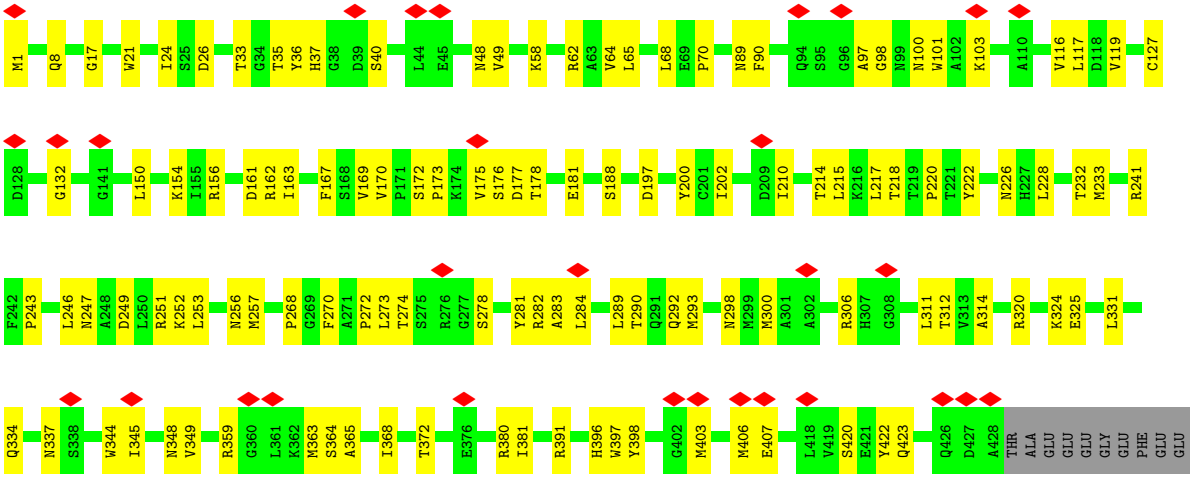
• Molecule 9: Tubulin beta-4B chain

Chain SH:



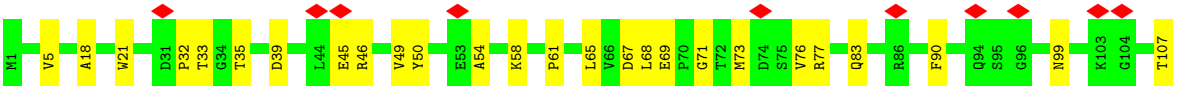
• Molecule 9: Tubulin beta-4B chain

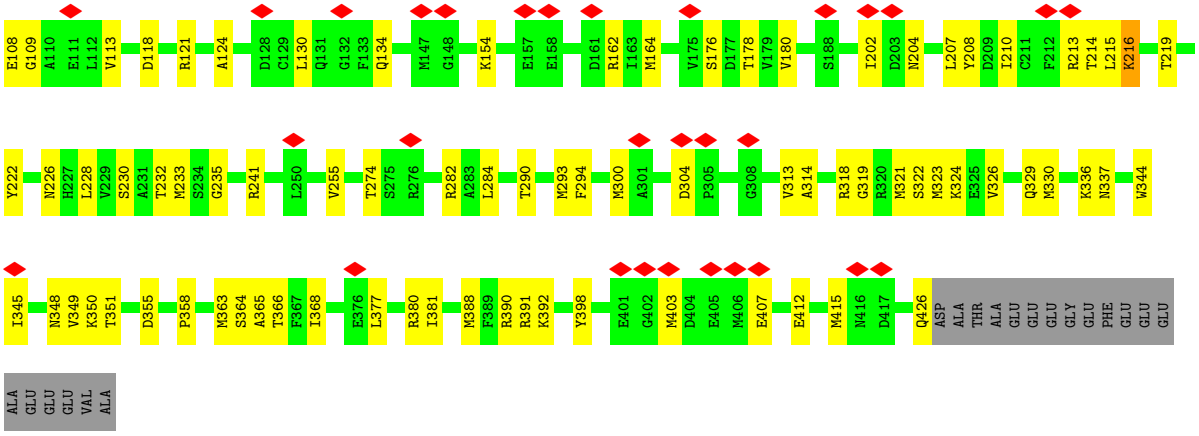
Chain SJ:



• Molecule 9: Tubulin beta-4B chain

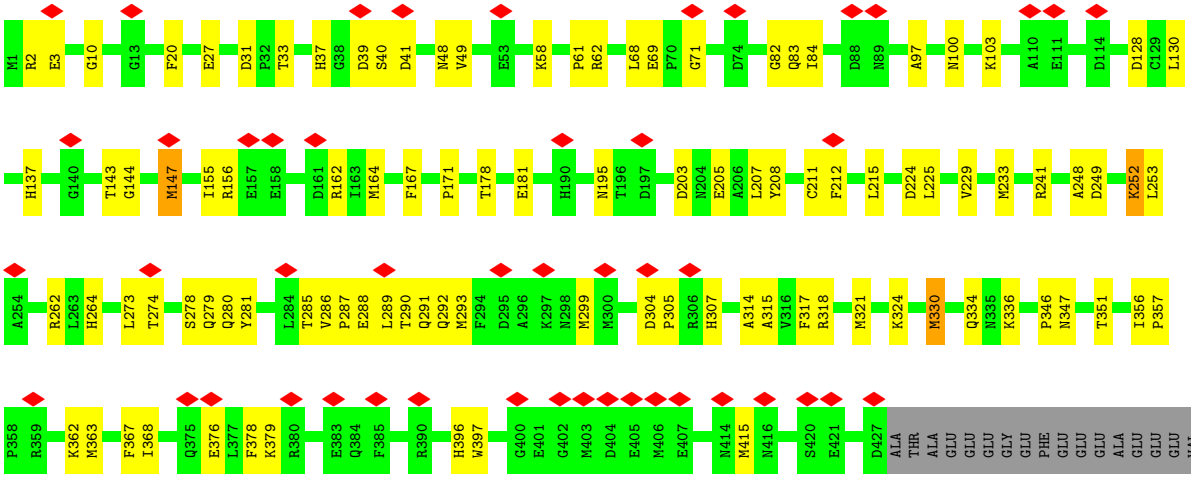
Chain SL:





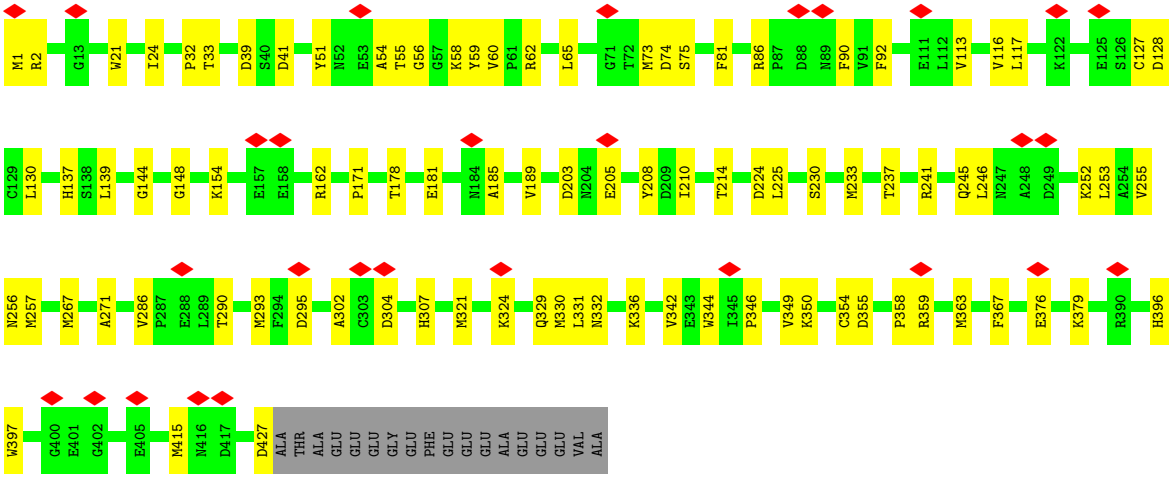
• Molecule 9: Tubulin beta-4B chain

Chain TB:



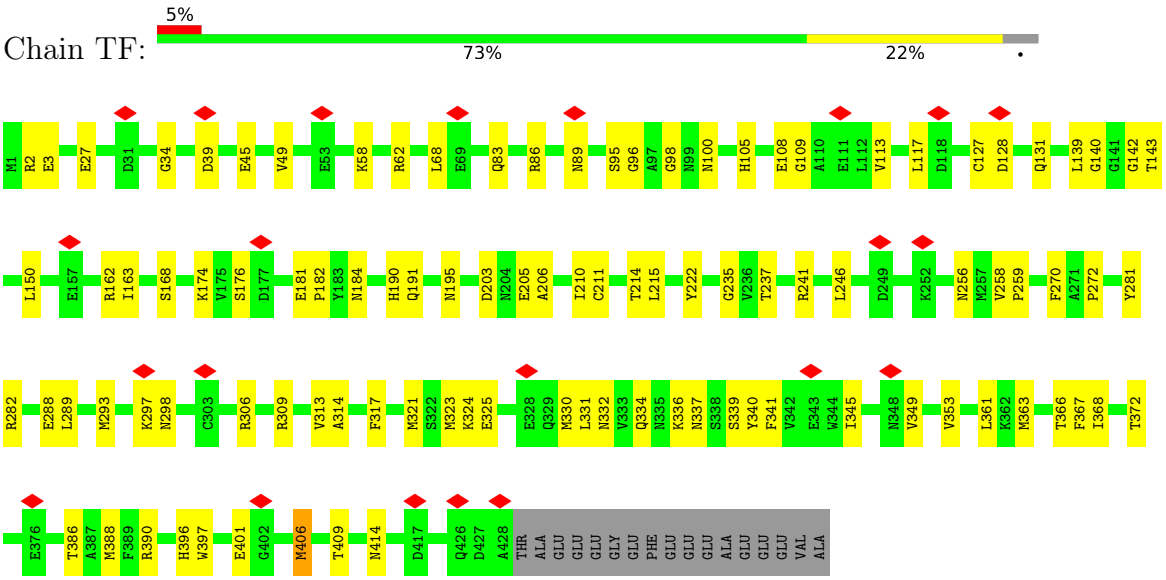
• Molecule 9: Tubulin beta-4B chain

Chain TD:



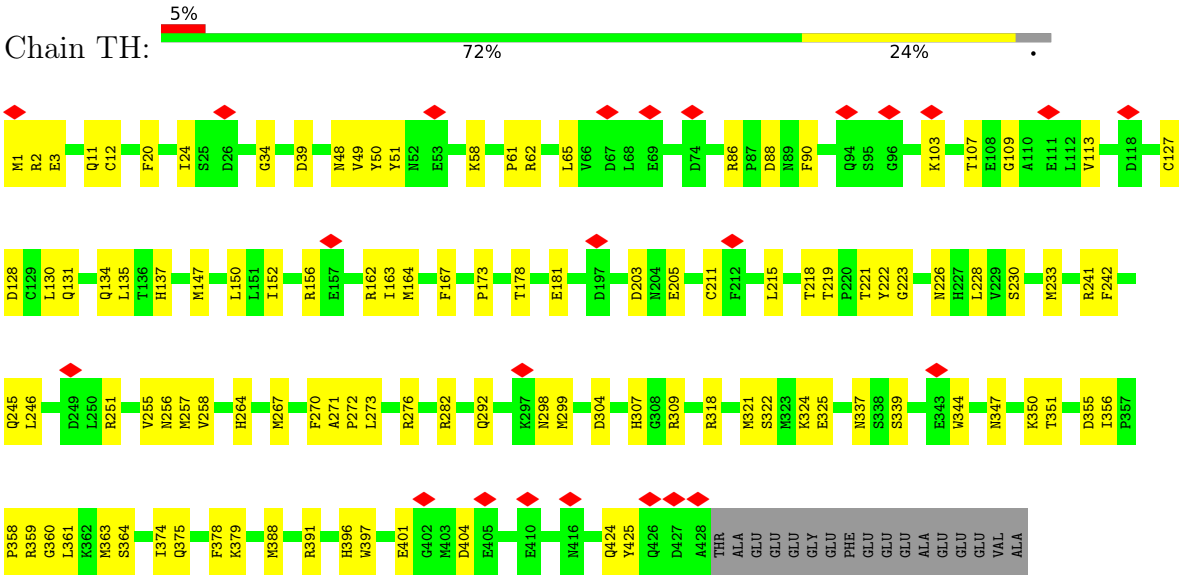
• Molecule 9: Tubulin beta-4B chain

Chain TF:



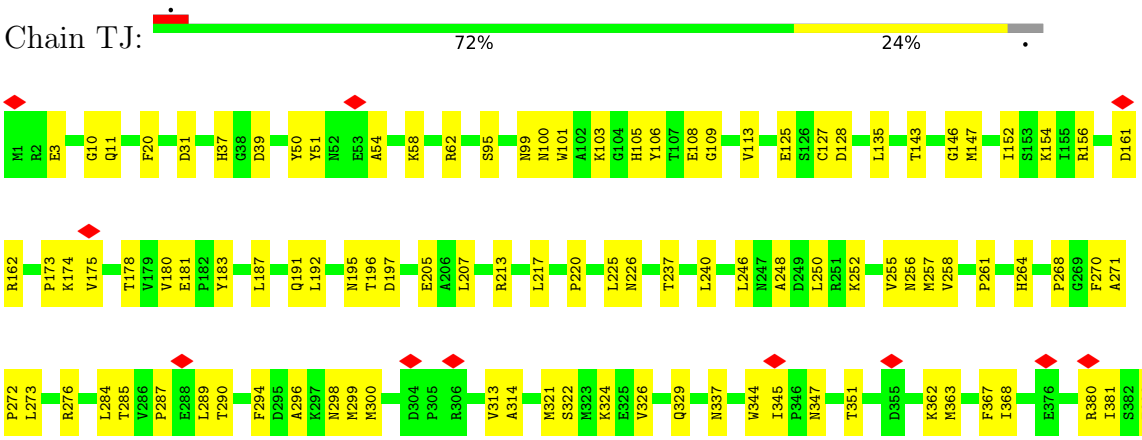
• Molecule 9: Tubulin beta-4B chain

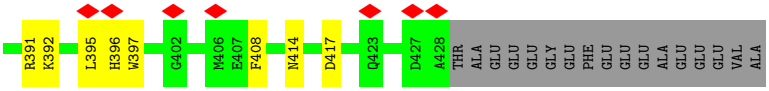
Chain TH:



• Molecule 9: Tubulin beta-4B chain

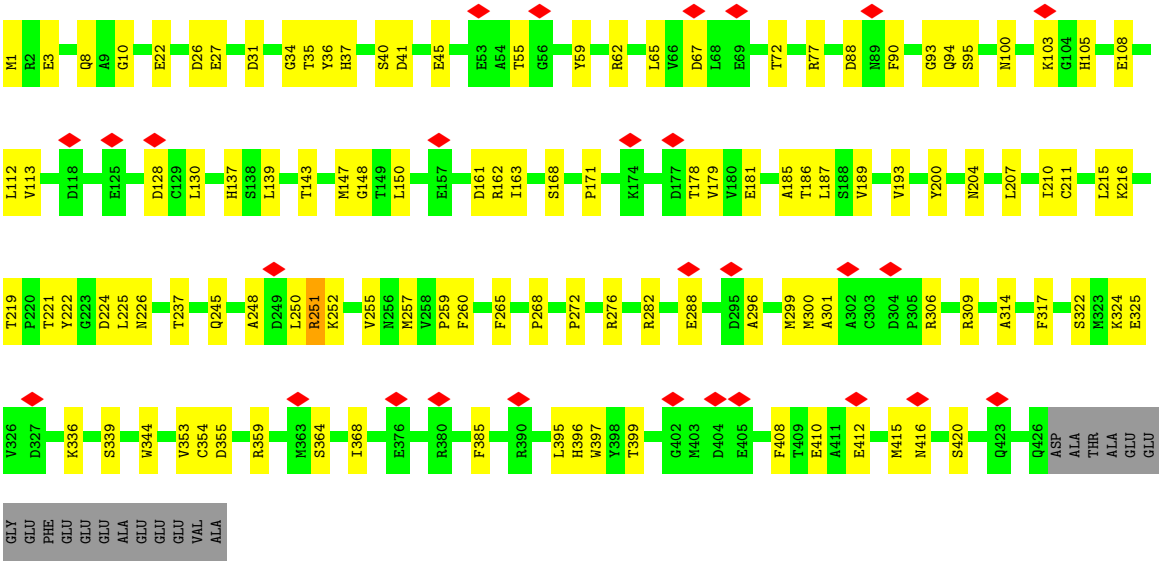
Chain TJ:





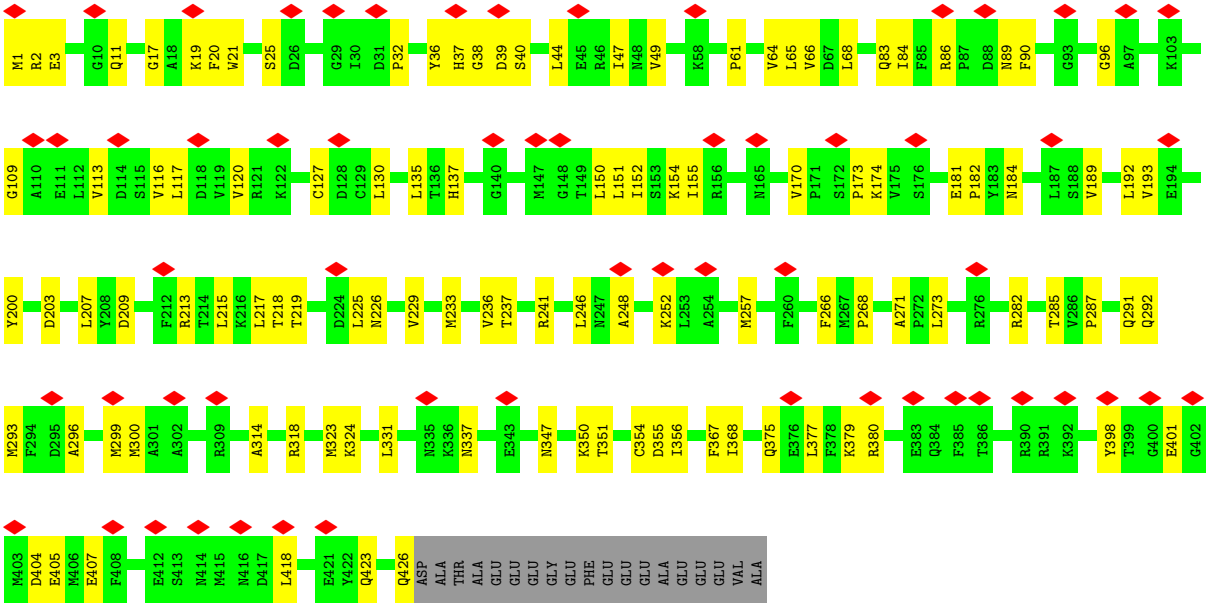
• Molecule 9: Tubulin beta-4B chain

Chain TL:



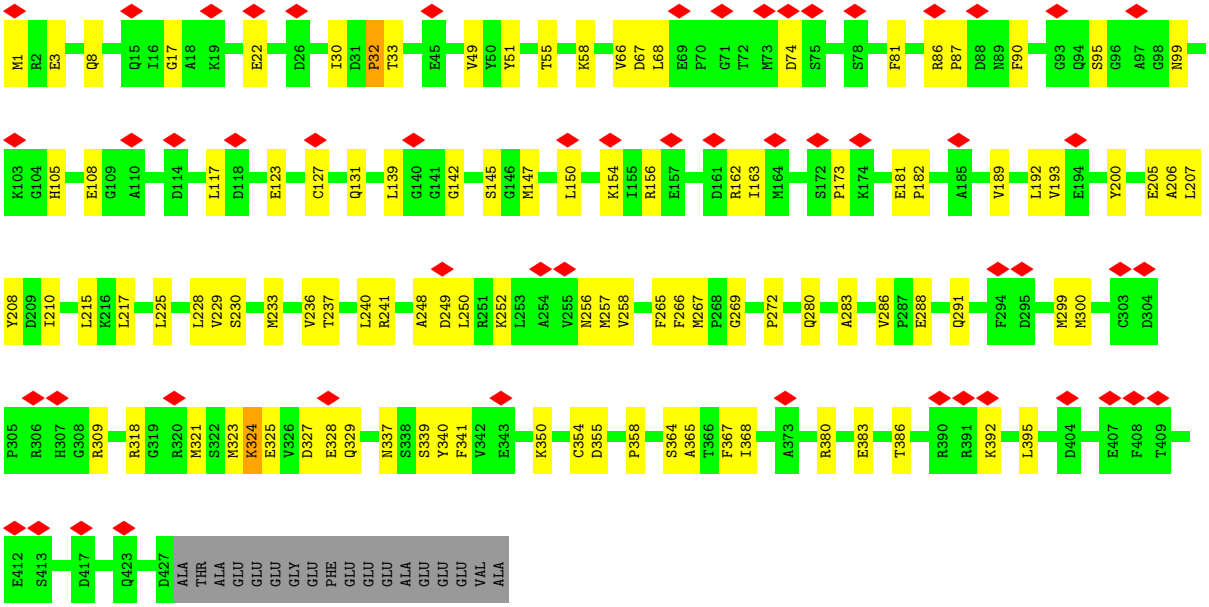
• Molecule 9: Tubulin beta-4B chain

Chain UB:



• Molecule 9: Tubulin beta-4B chain

Chain UD:



• Molecule 9: Tubulin beta-4B chain

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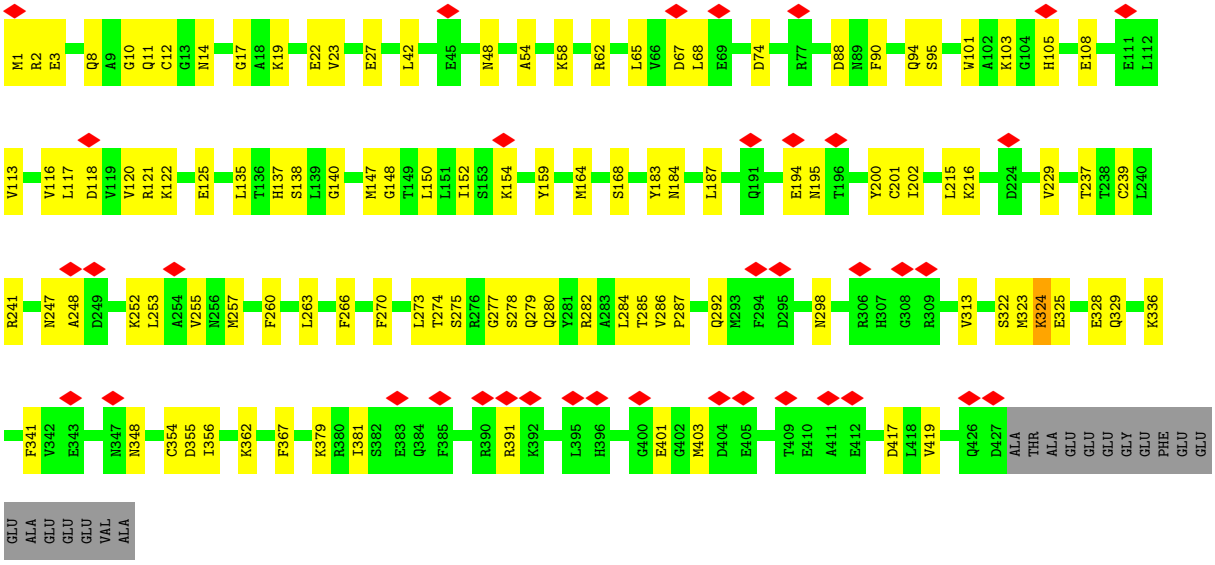
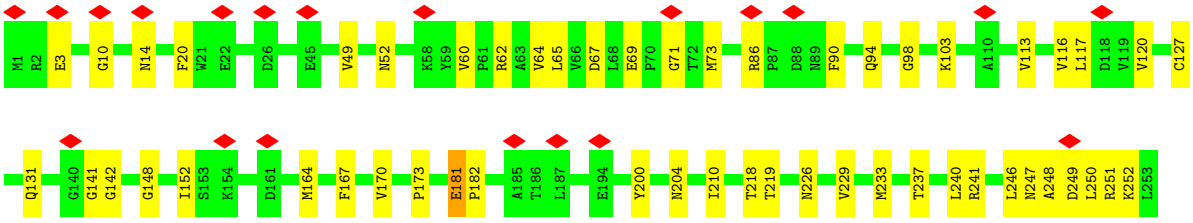
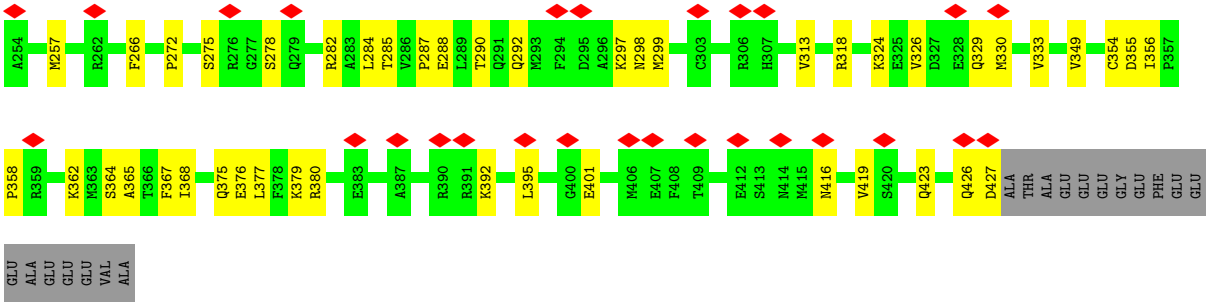


• Molecule 9: Tubulin beta-4B chain

Chain UH:





• Molecule 9: Tubulin beta-4B chain

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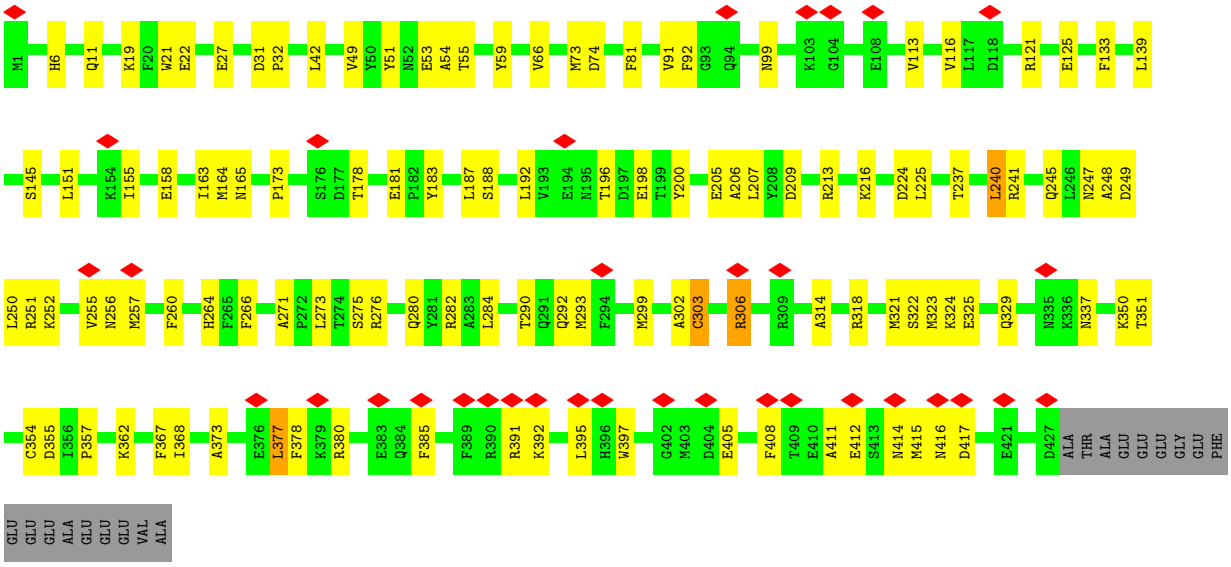

• Molecule 9: Tubulin beta-4B chain

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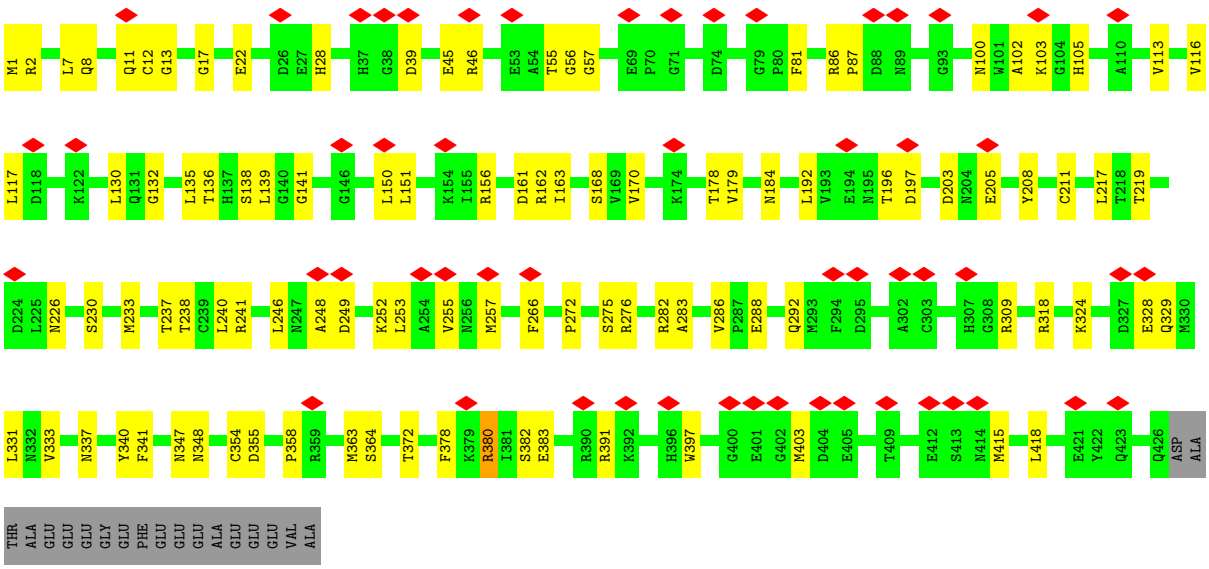
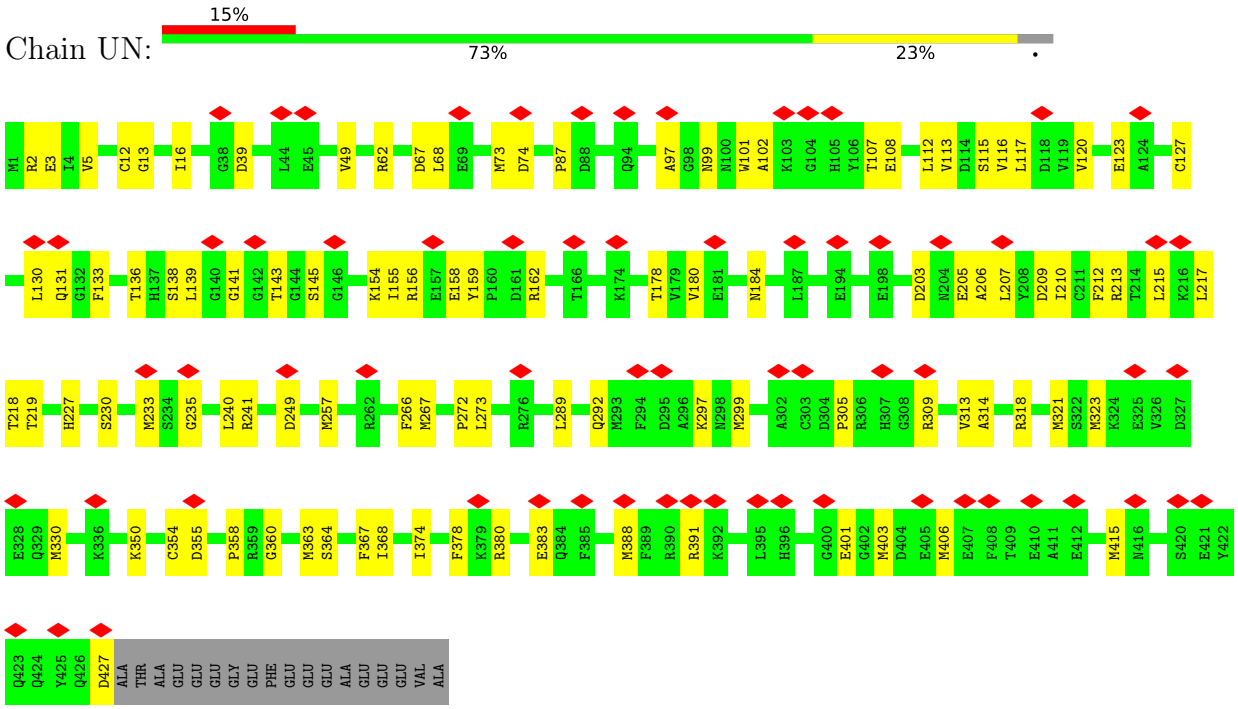


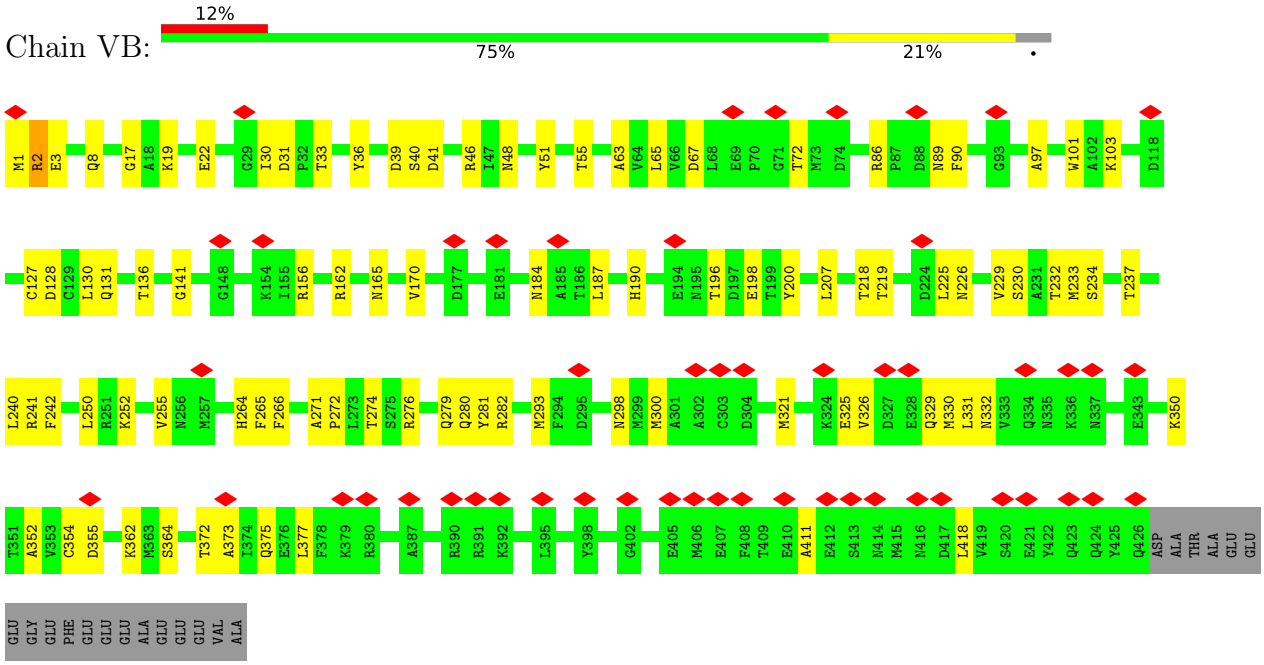
• Molecule 9: Tubulin beta-4B chain

Chain UN:



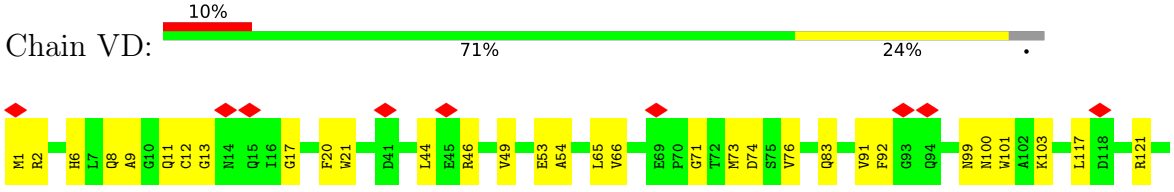
• Molecule 9: Tubulin beta-4B chain

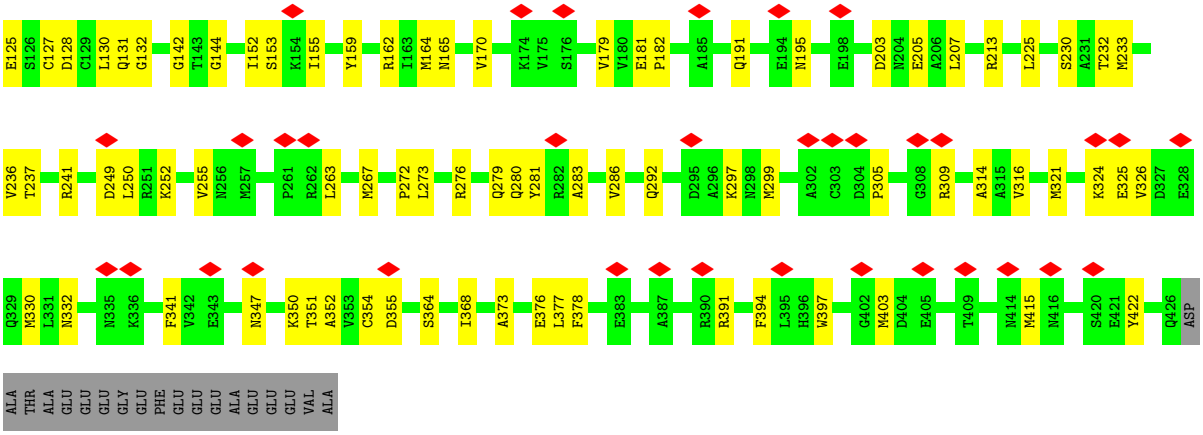
Chain VB:



• Molecule 9: Tubulin beta-4B chain

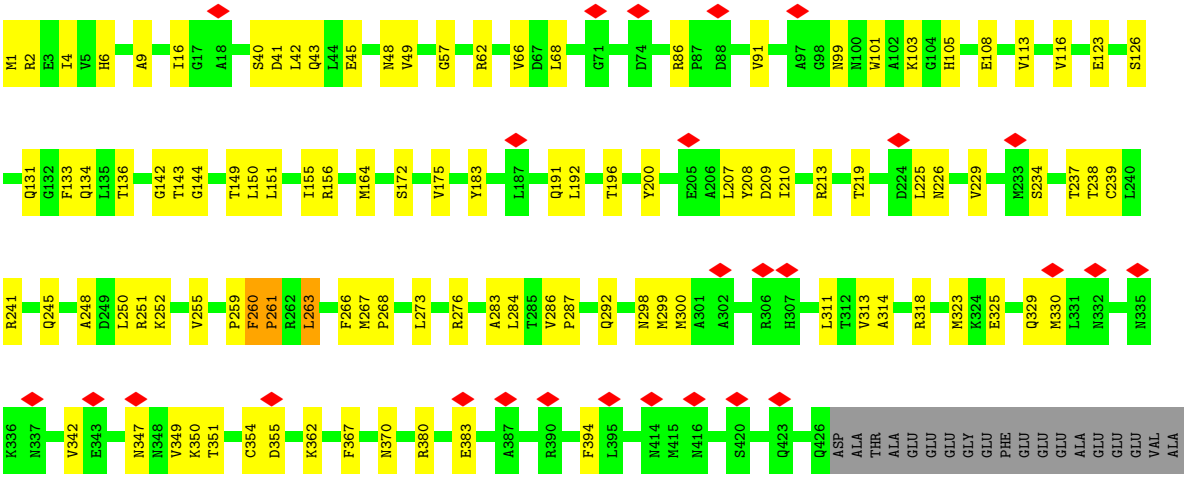
Chain VD:





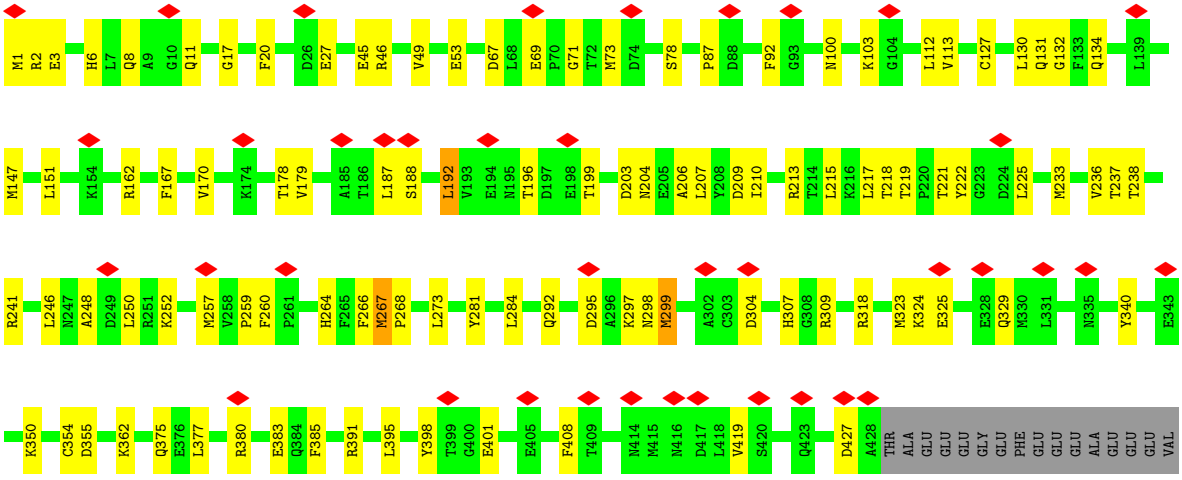
• Molecule 9: Tubulin beta-4B chain

Chain VF:



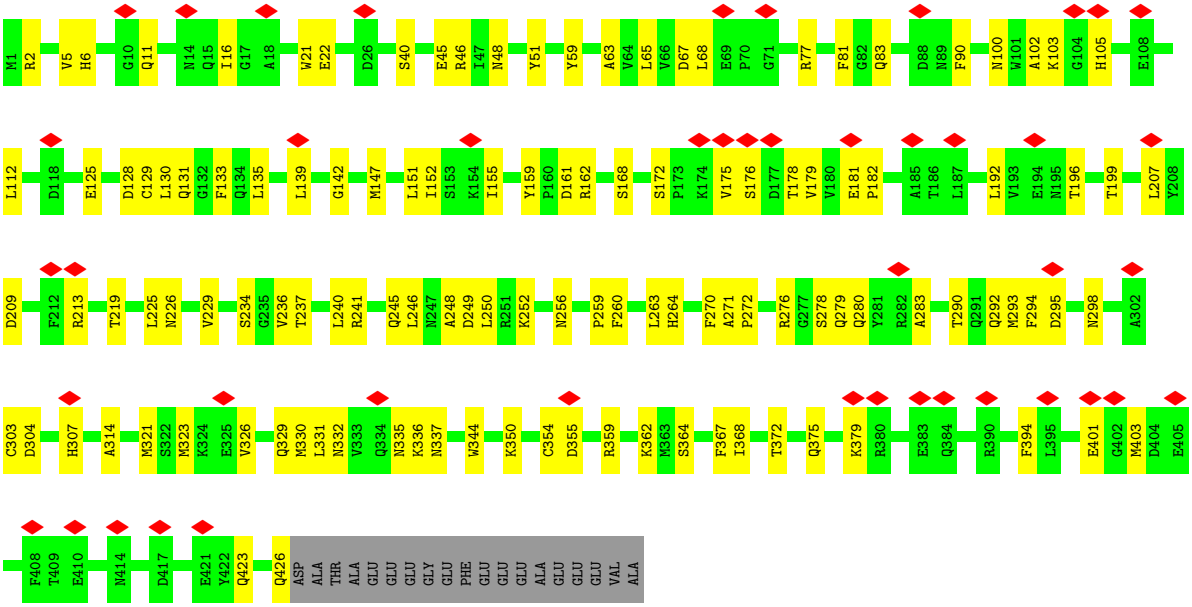
• Molecule 9: Tubulin beta-4B chain

Chain VH:



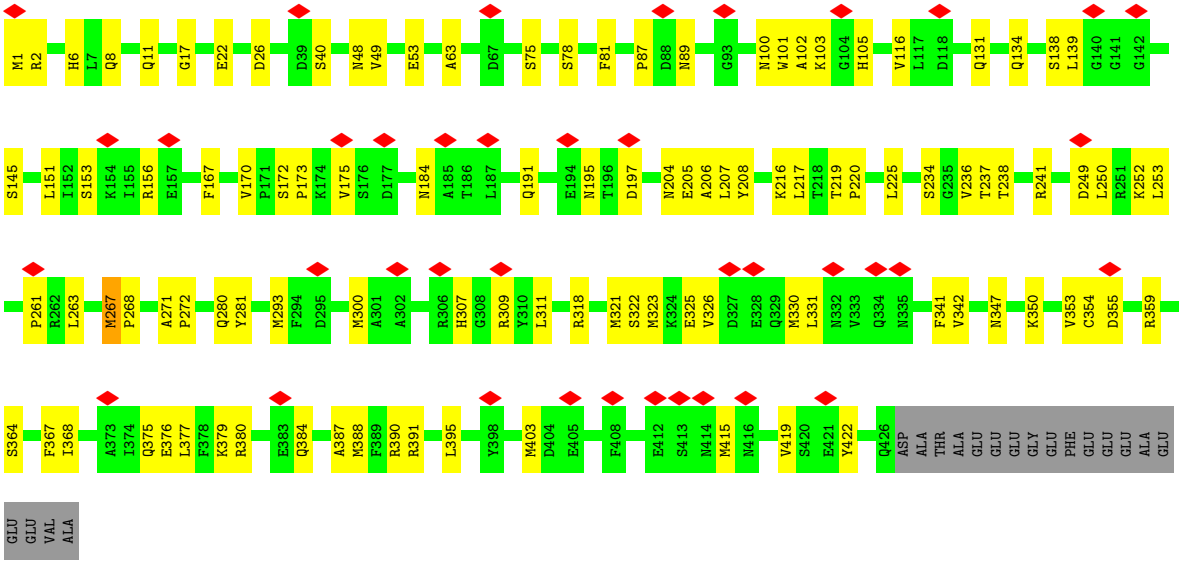
• Molecule 9: Tubulin beta-4B chain

Chain VJ:



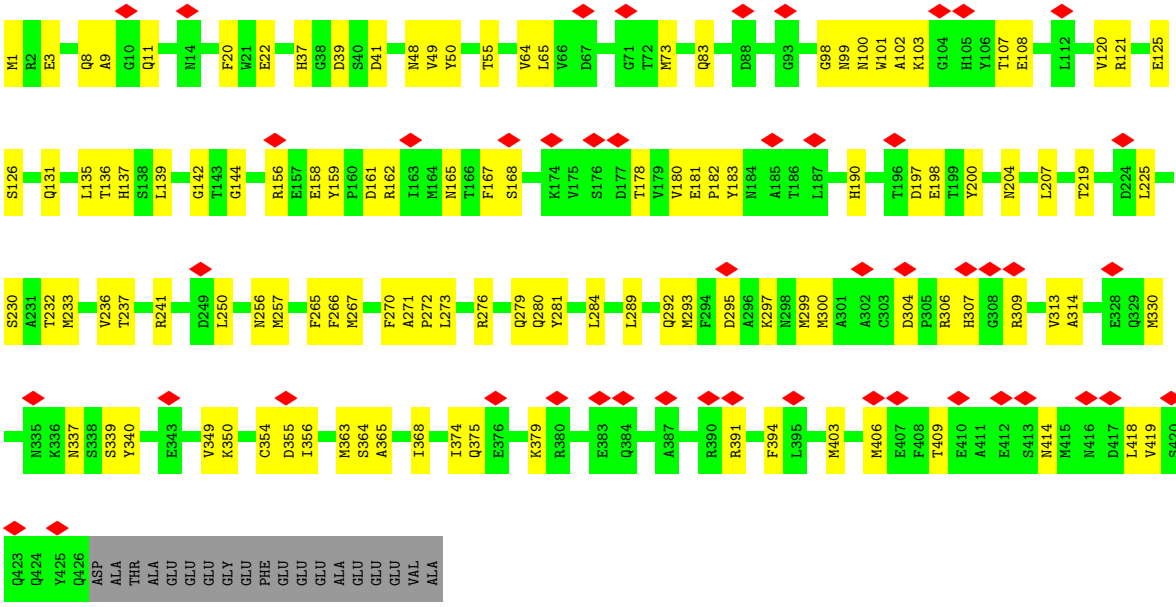
• Molecule 9: Tubulin beta-4B chain

Chain VL:



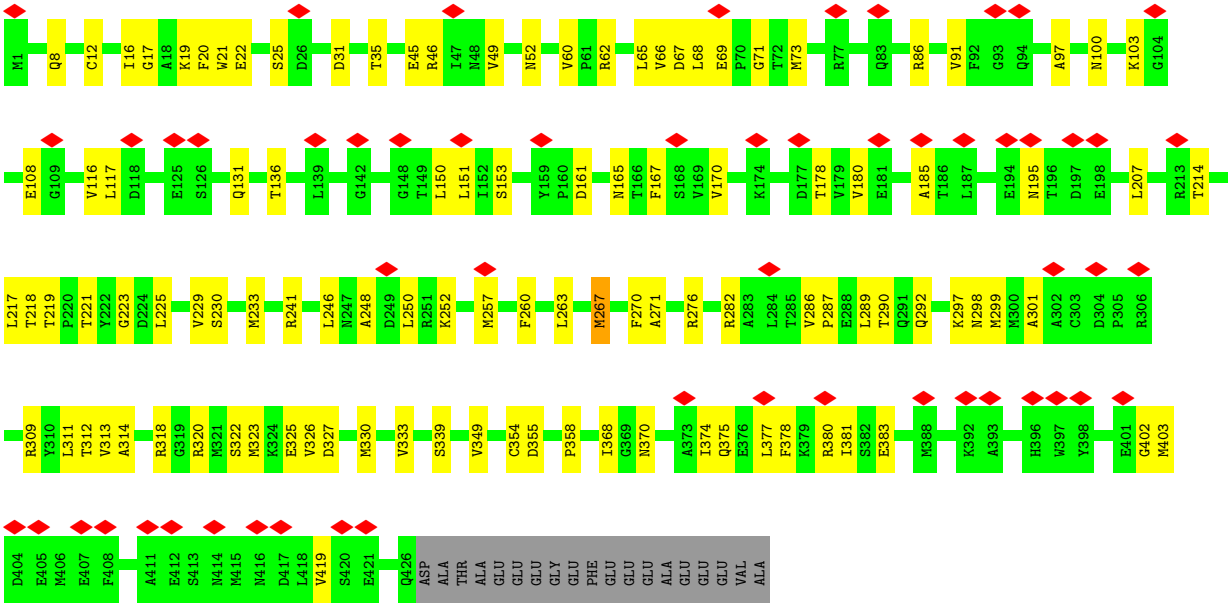
• Molecule 9: Tubulin beta-4B chain

Chain VN:



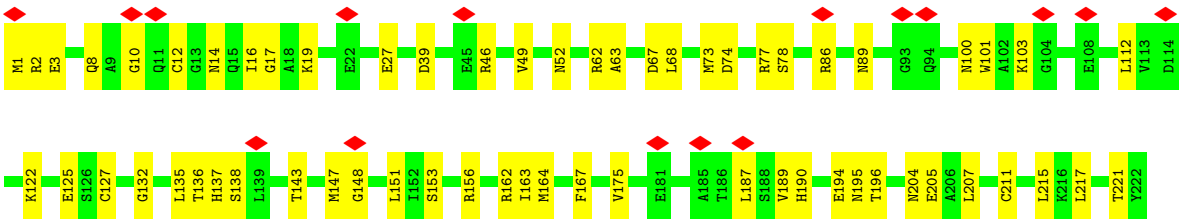
• Molecule 9: Tubulin beta-4B chain

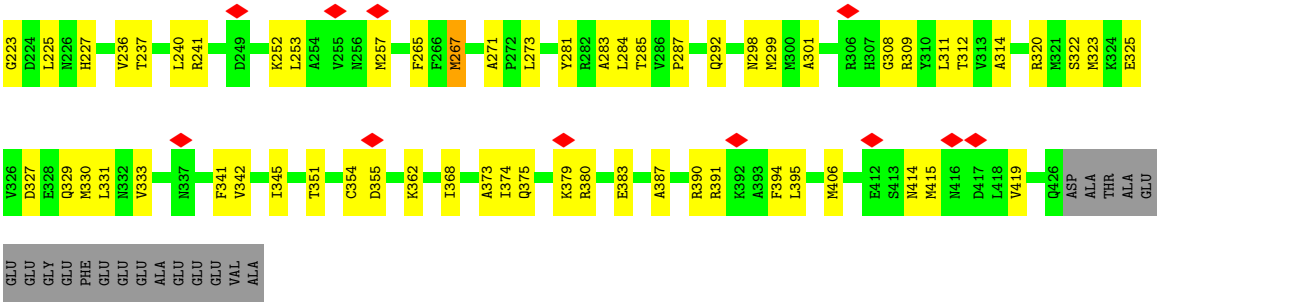
Chain WB:



• Molecule 9: Tubulin beta-4B chain

Chain WD:





• Molecule 9: Tubulin beta-4B chain

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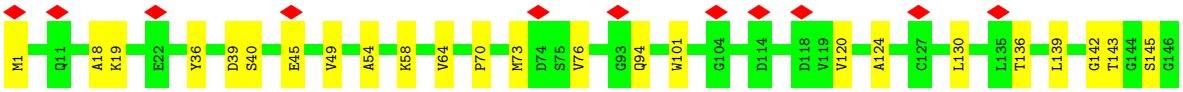
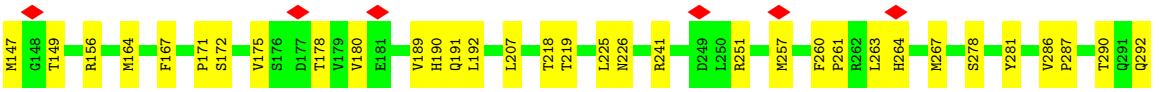
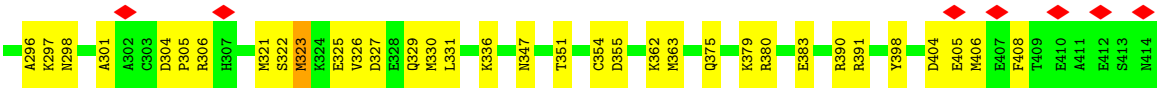
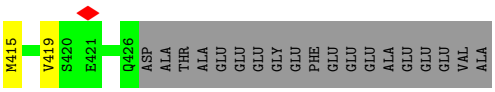


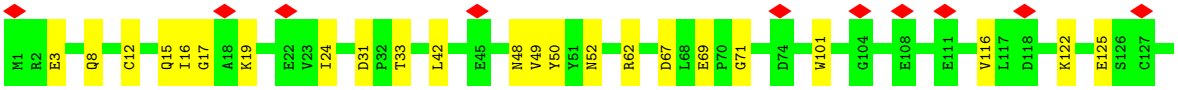


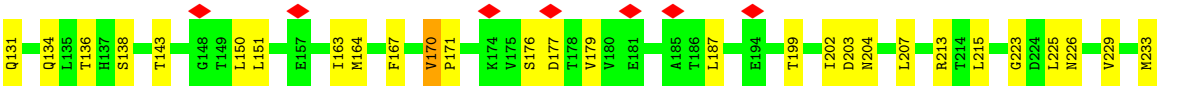


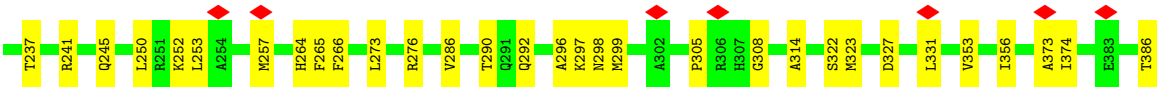


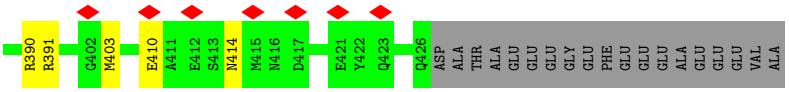
• Molecule 9: Tubulin beta-4B chain

Chain WH:



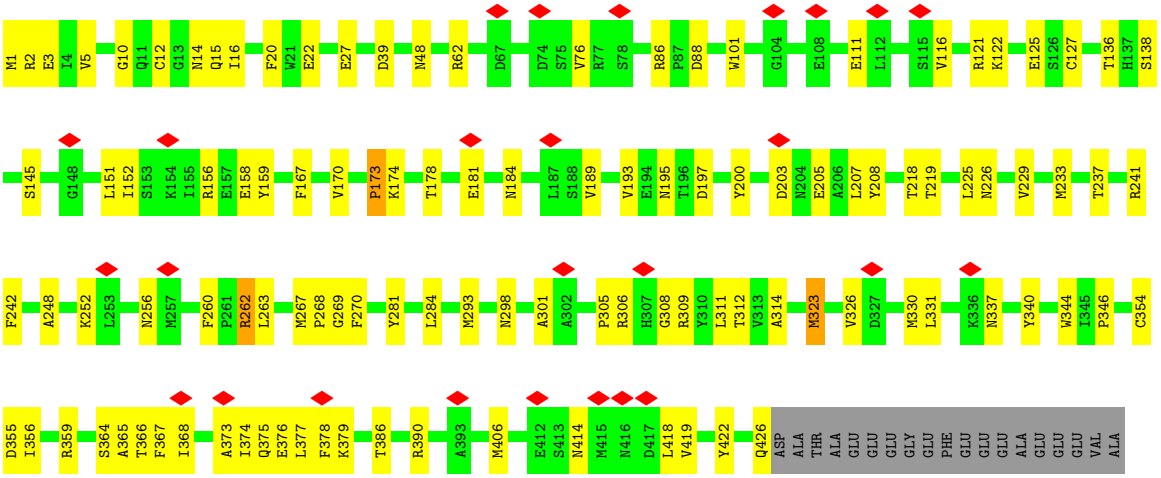






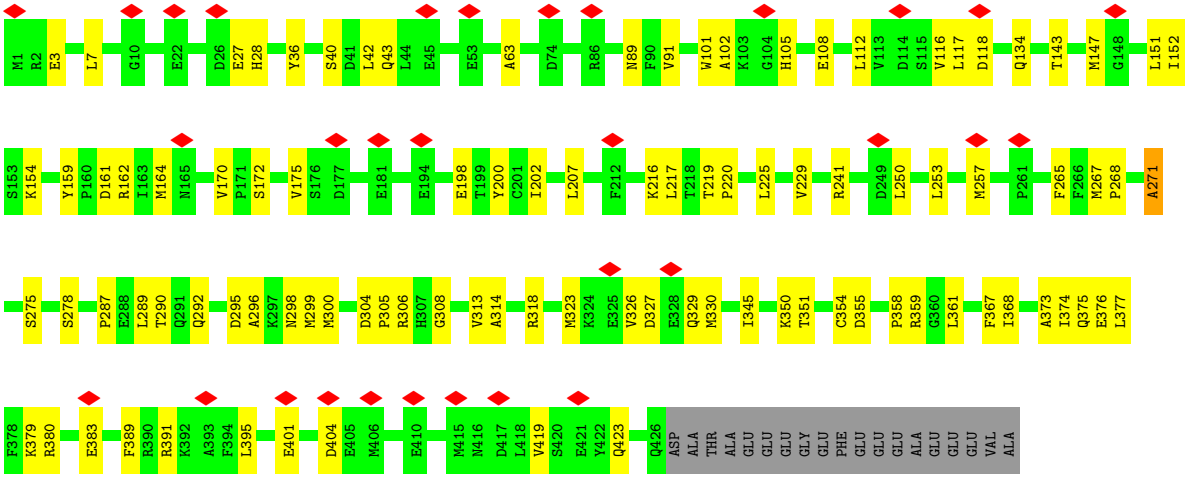
• Molecule 9: Tubulin beta-4B chain

Chain WJ:



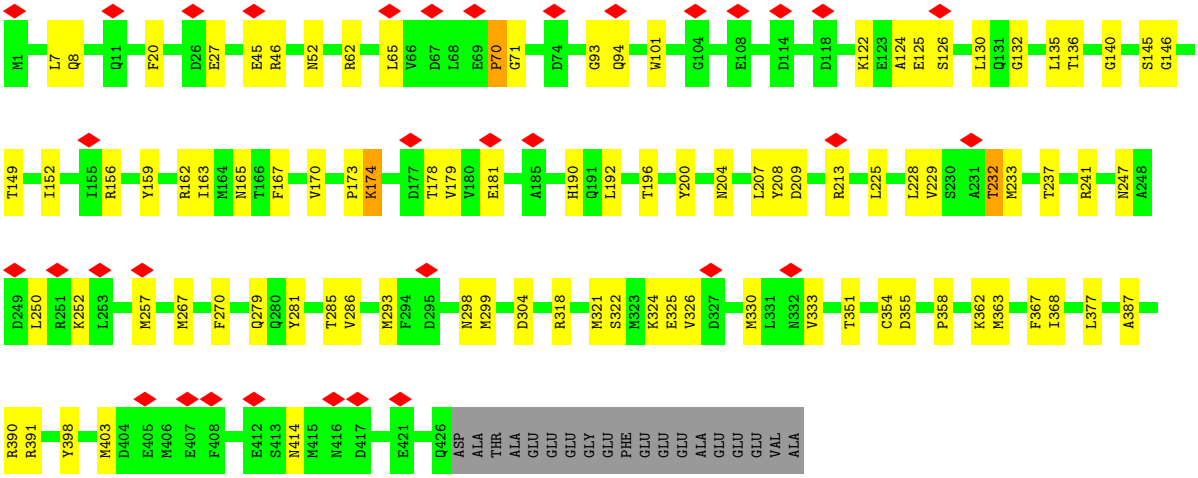
• Molecule 9: Tubulin beta-4B chain

Chain WL:



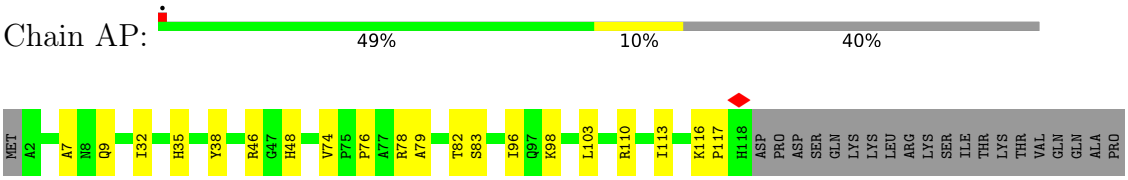
• Molecule 9: Tubulin beta-4B chain

Chain WN:



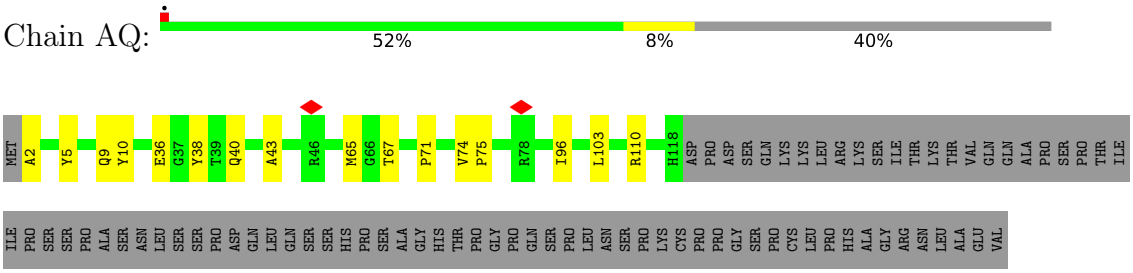
• Molecule 10: Protein Flattop

Chain AP:



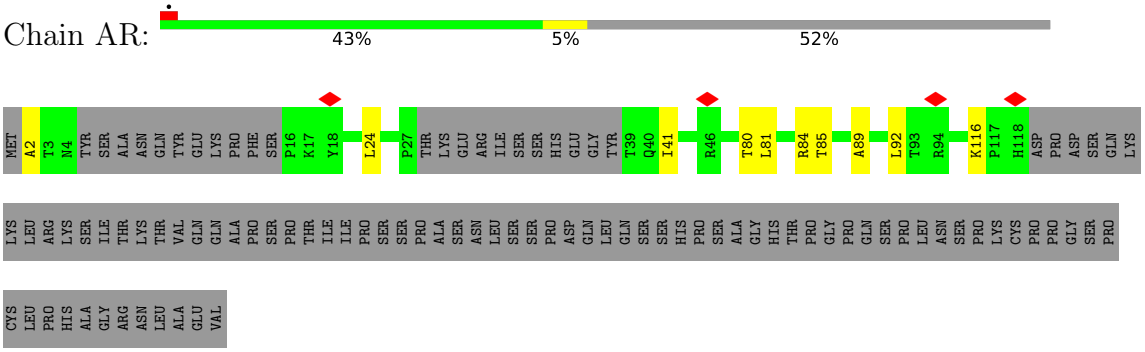
• Molecule 10: Protein Flattop

Chain AQ:



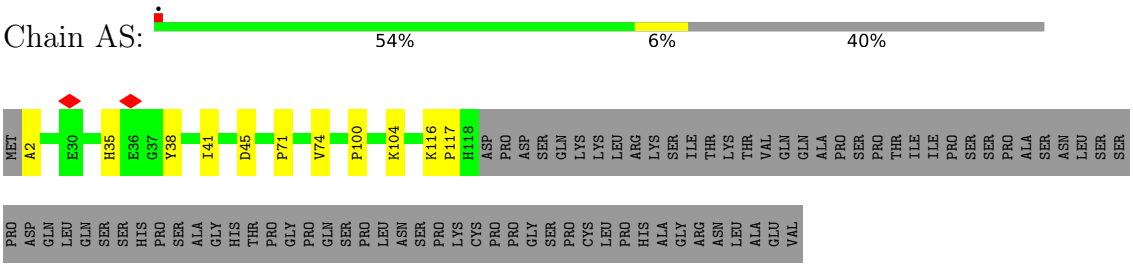
• Molecule 10: Protein Flattop

Chain AR:



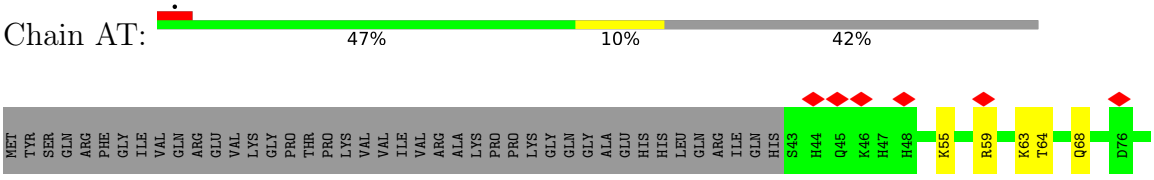
• Molecule 10: Protein Flattop

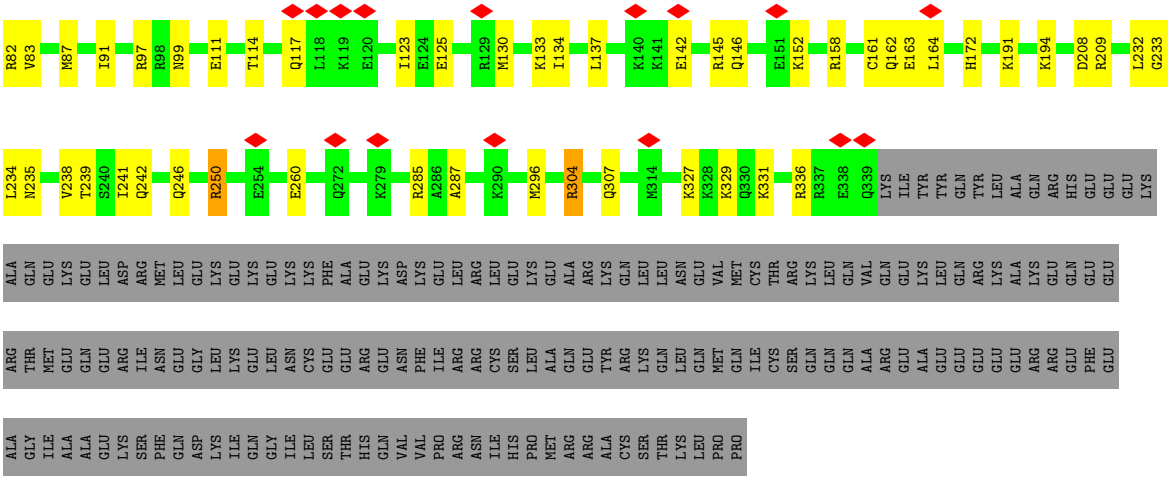
Chain AS:



• Molecule 11: Cilia- and flagella-associated protein 53

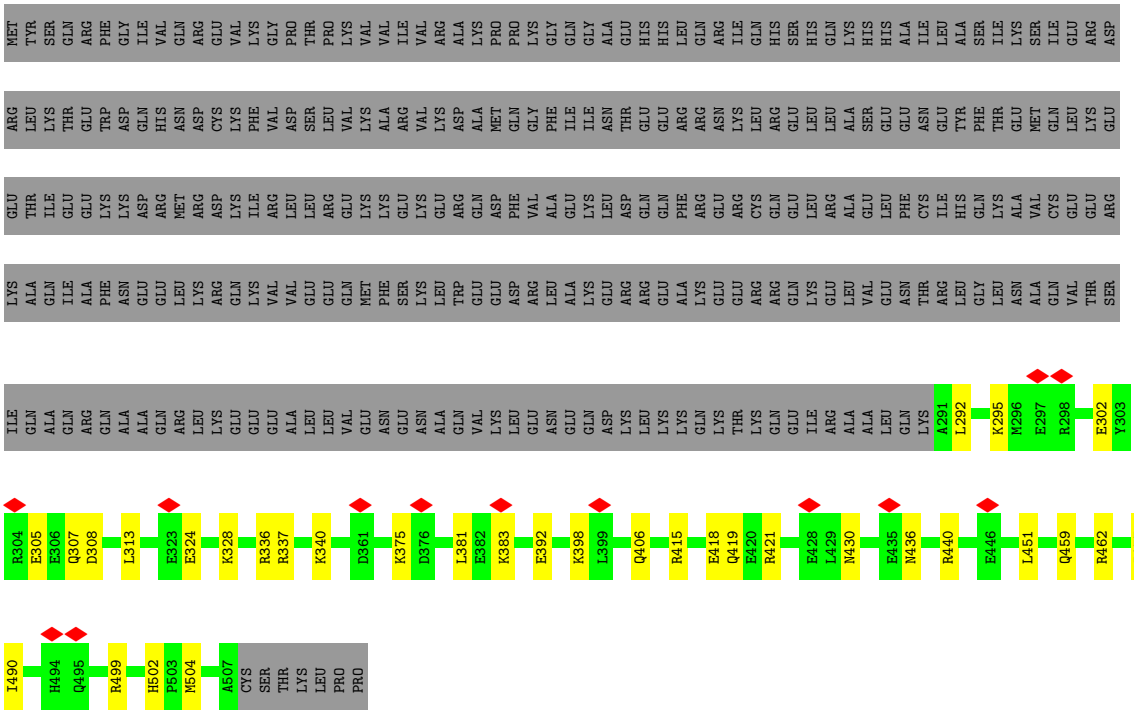
Chain AT:





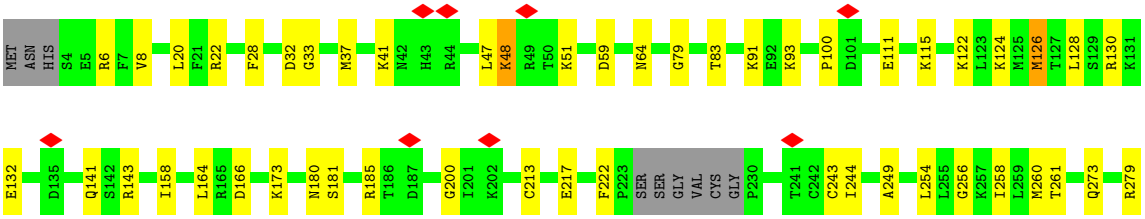
• Molecule 11: Cilia- and flagella-associated protein 53

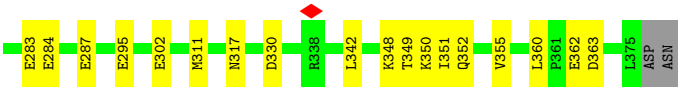
Chain AU:



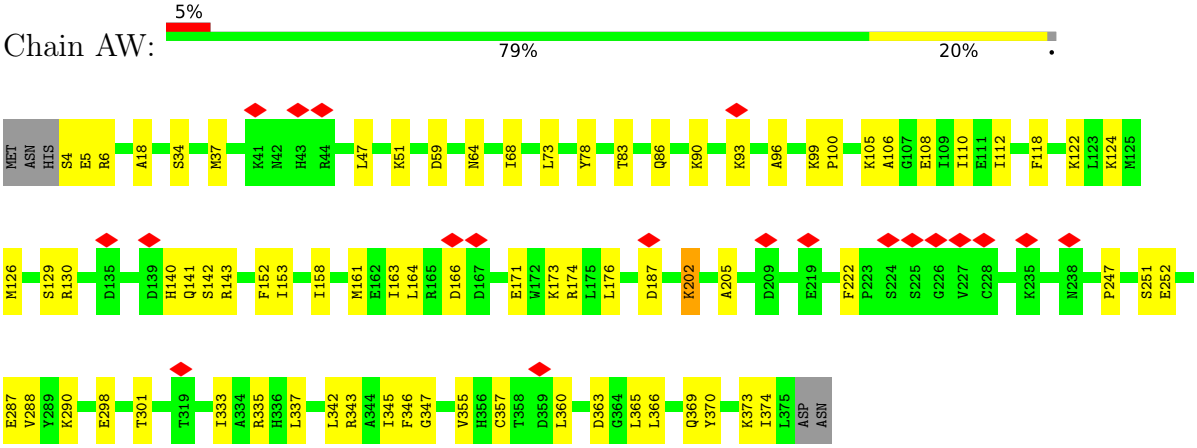
• Molecule 12: Nucleoside diphosphate kinase 7

Chain AV:

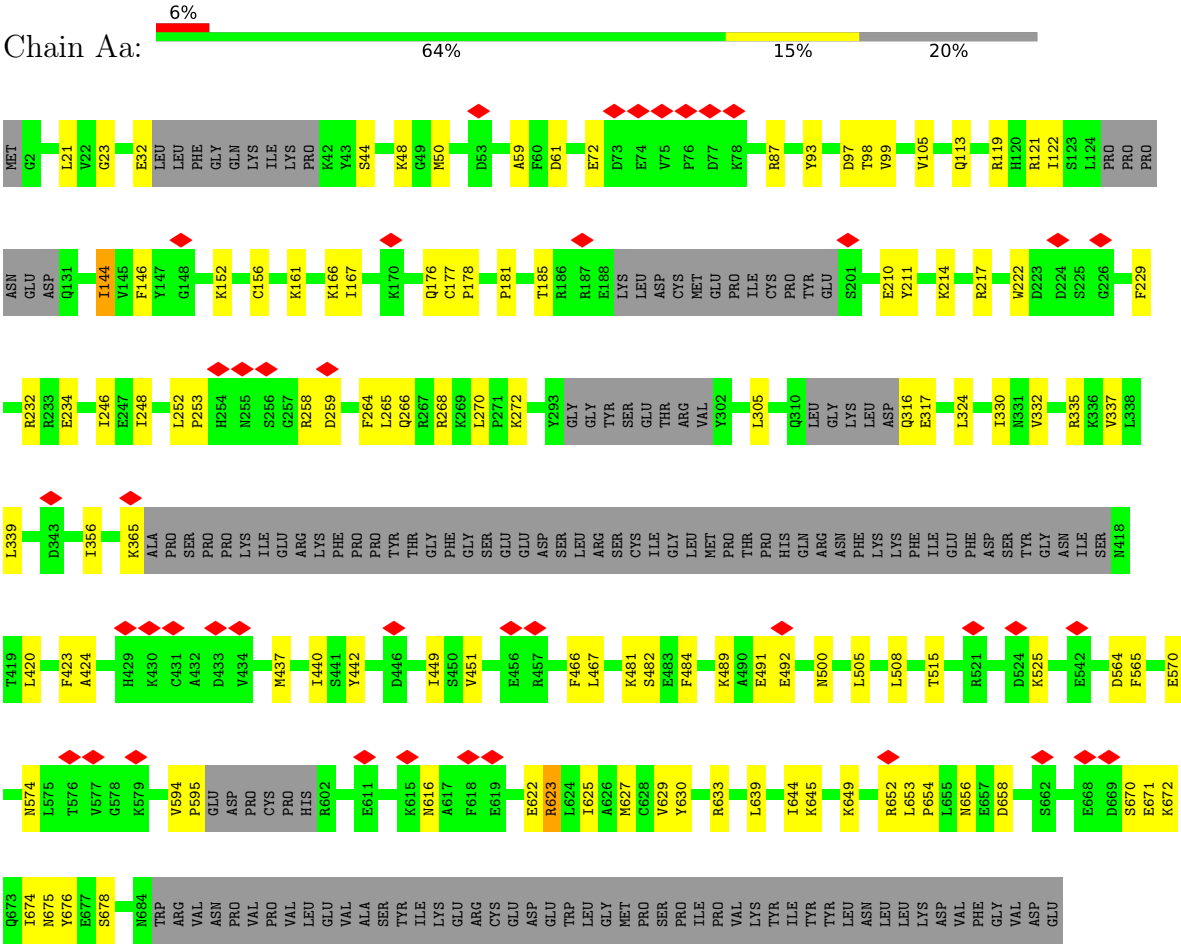




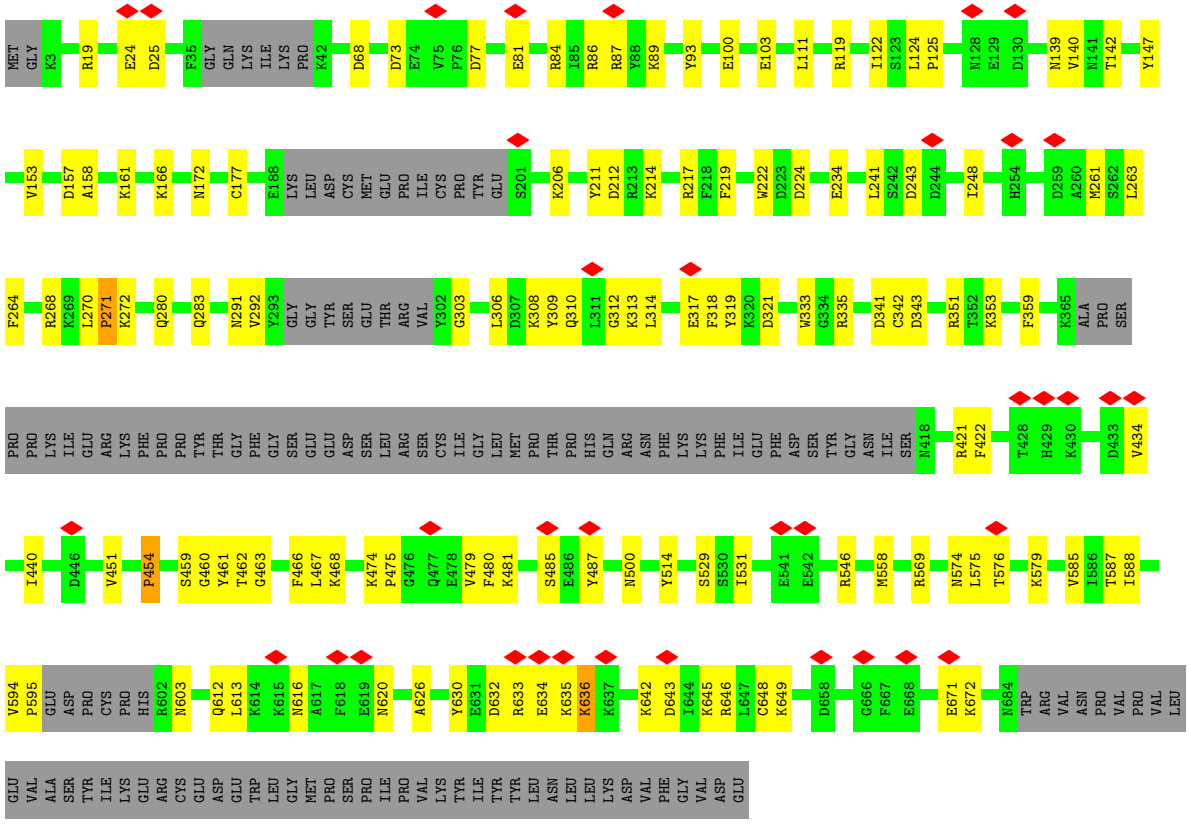
• Molecule 12: Nucleoside diphosphate kinase 7



• Molecule 13: EF-hand domain-containing family member C2

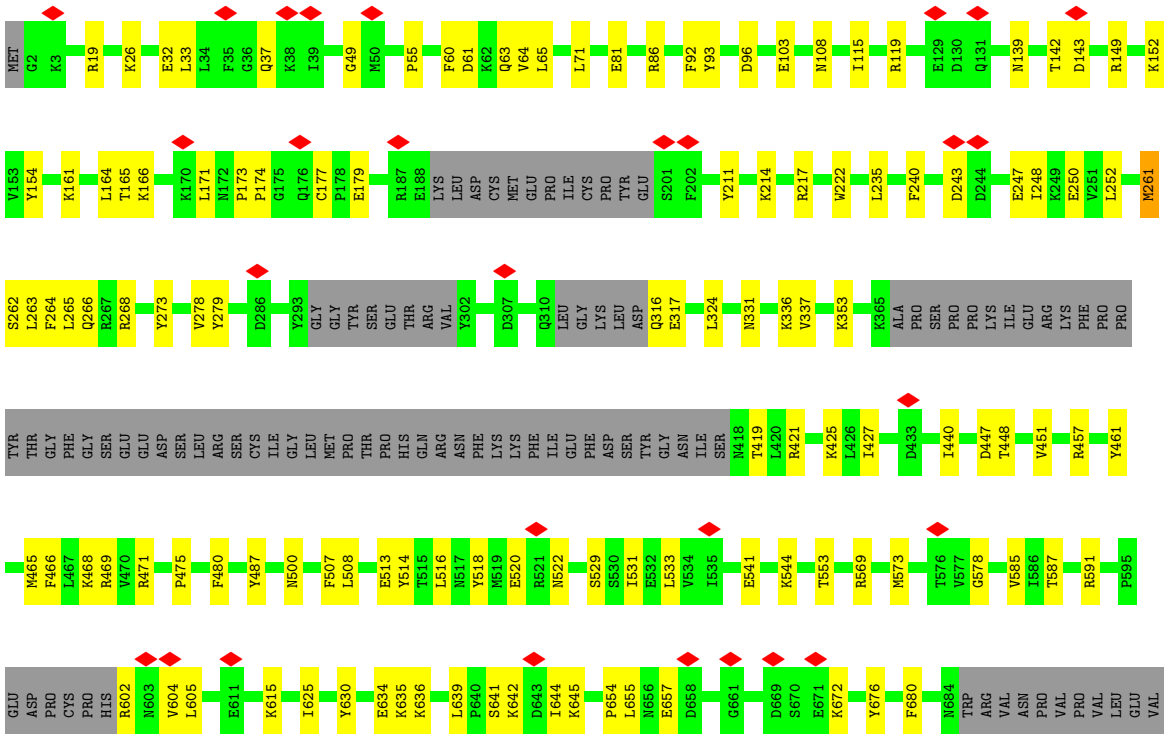


• Molecule 13: EF-hand domain-containing family member C2



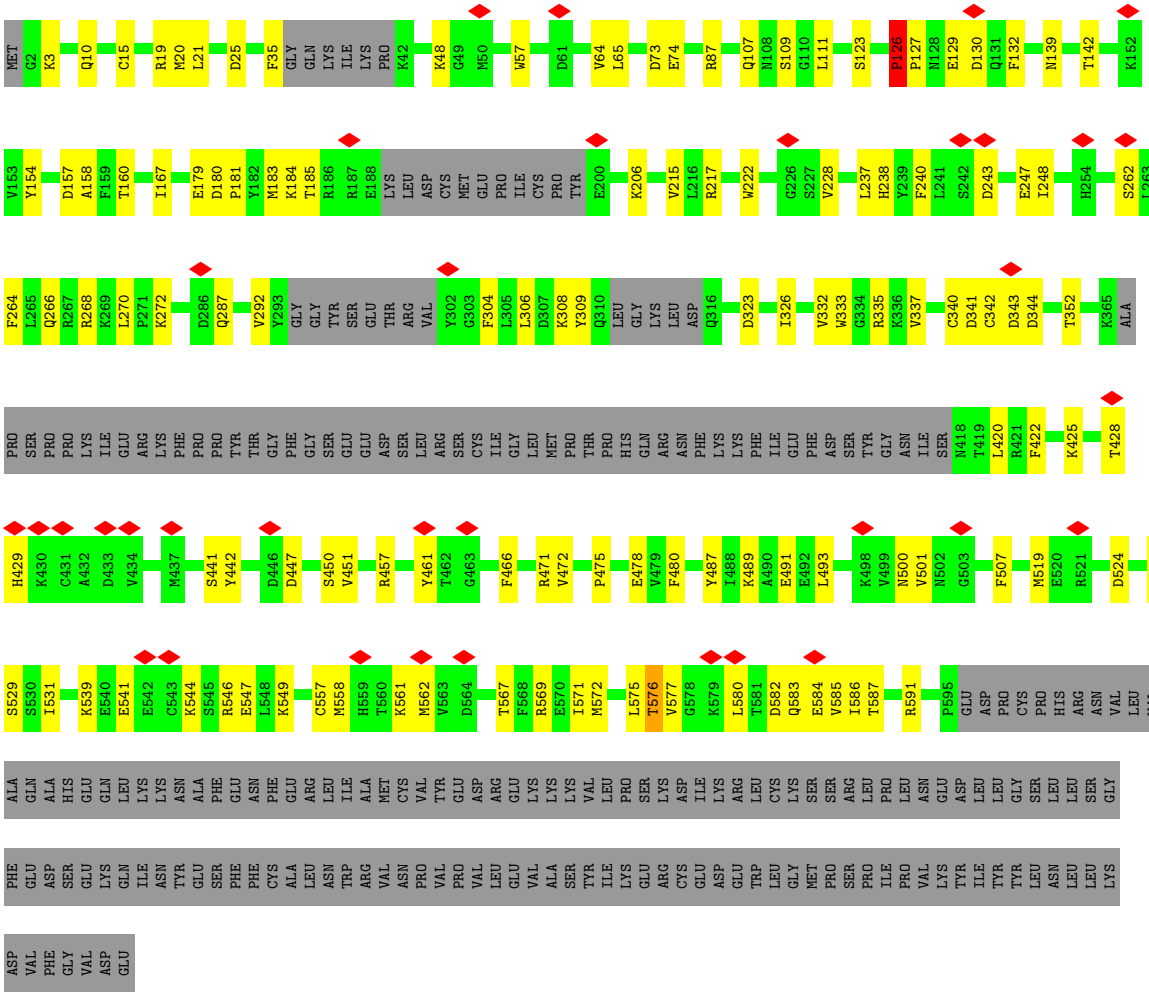
• Molecule 13: EF-hand domain-containing family member C2

Chain Ac:



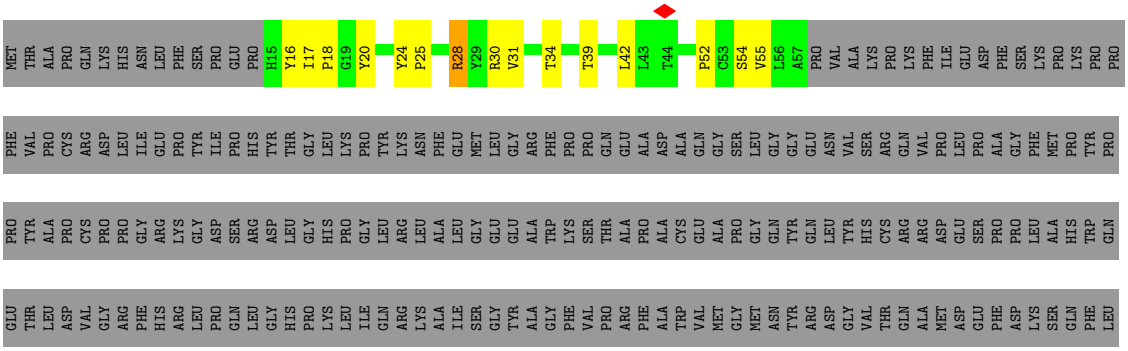
• Molecule 13: EF-hand domain-containing family member C2

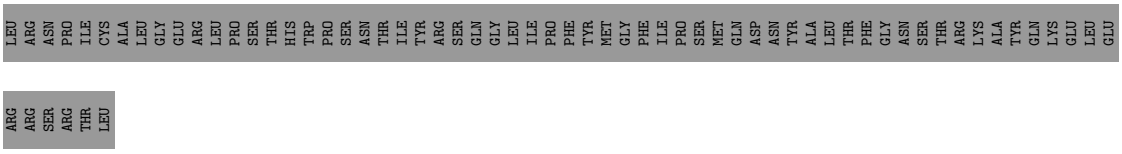
Chain Ad:



• Molecule 14: Family with sequence similarity 166 member A

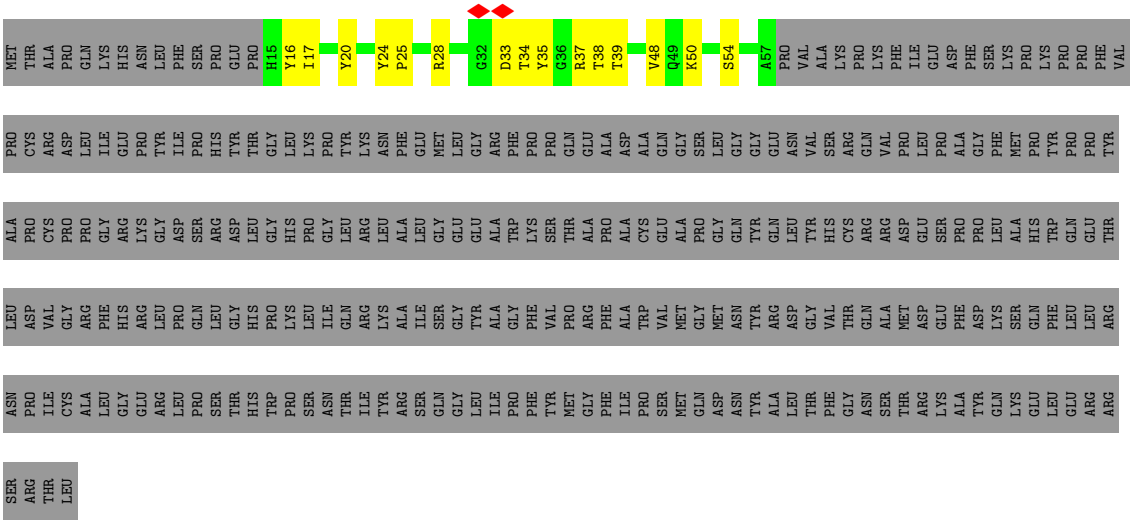
Chain Al:





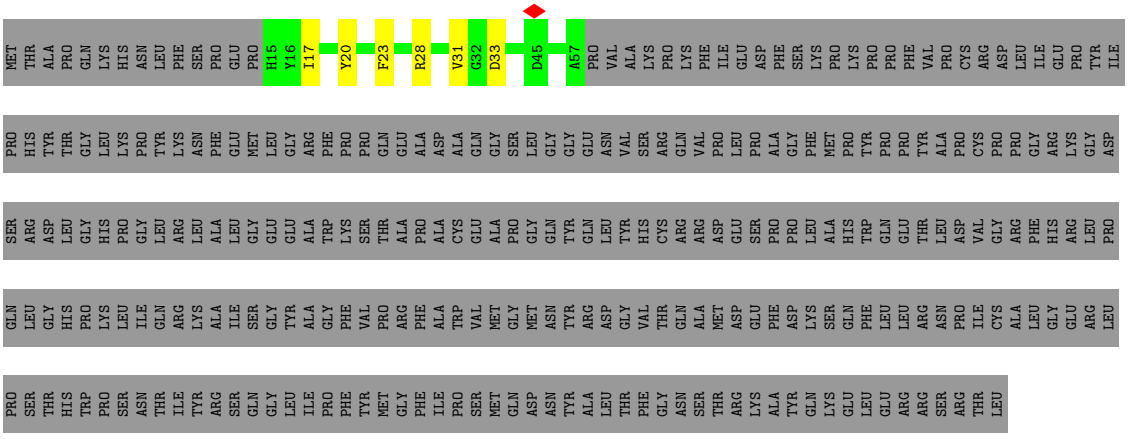
• Molecule 14: Family with sequence similarity 166 member A

Chain Am:



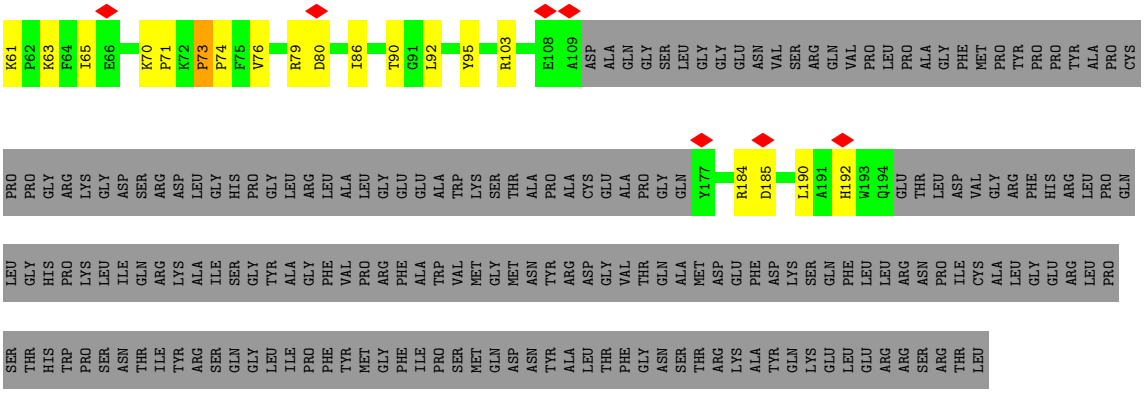
• Molecule 14: Family with sequence similarity 166 member A

Chain An:



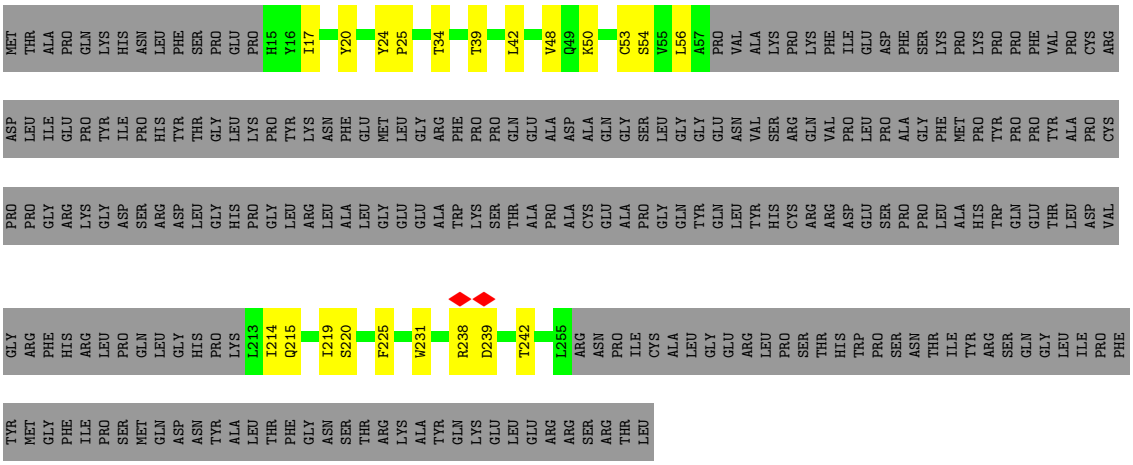
• Molecule 14: Family with sequence similarity 166 member A

Chain Ao:



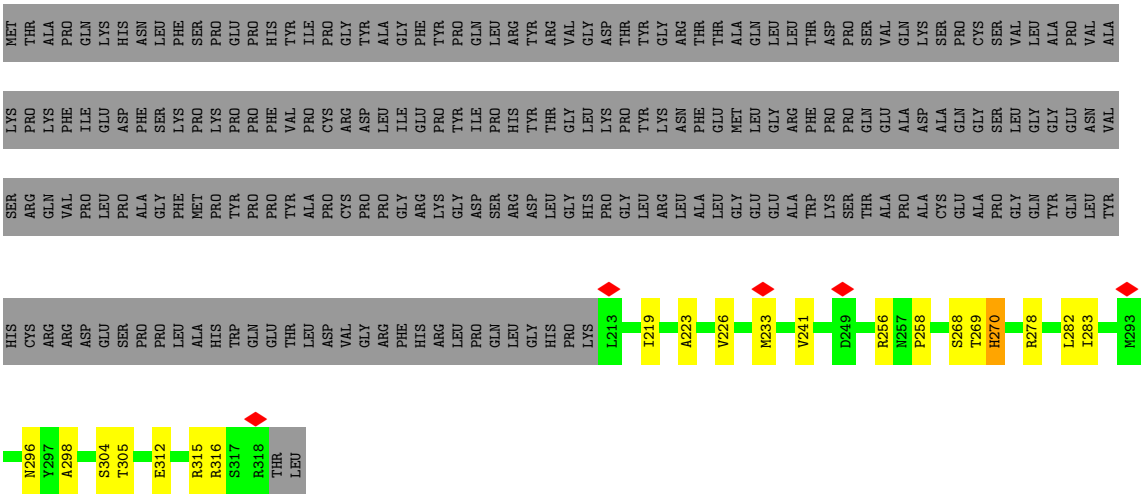
• Molecule 14: Family with sequence similarity 166 member A

Chain B7:



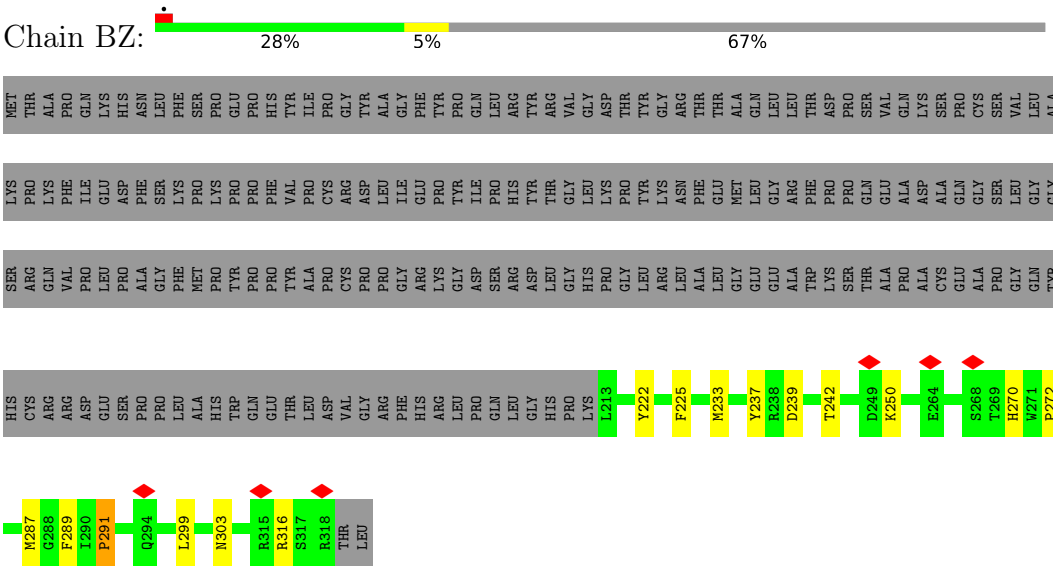
• Molecule 14: Family with sequence similarity 166 member A

Chain BY:



• Molecule 14: Family with sequence similarity 166 member A

Chain BZ:



• Molecule 14: Family with sequence similarity 166 member A

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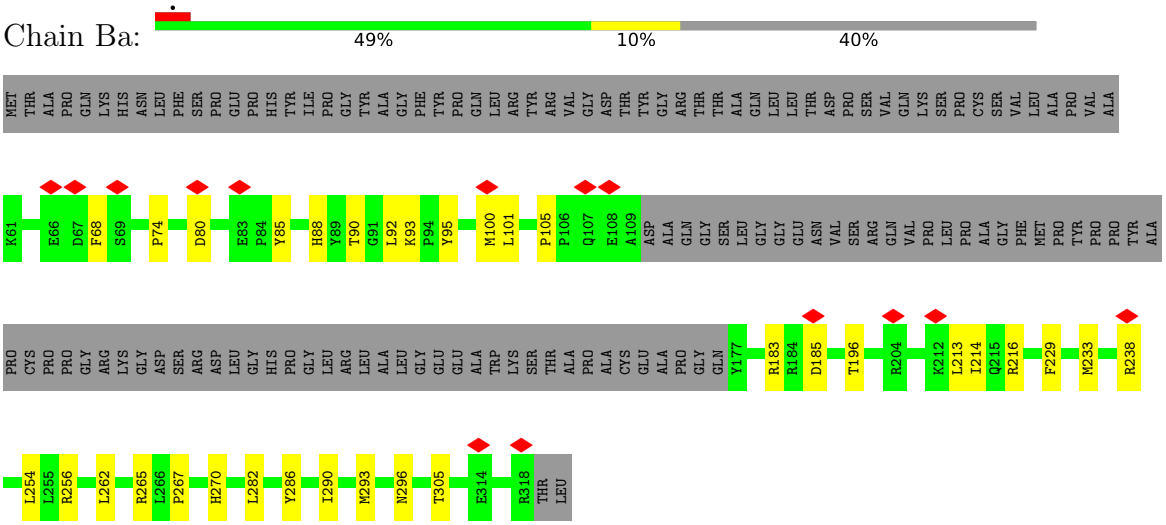

• Molecule 14: Family with sequence similarity 166 member A

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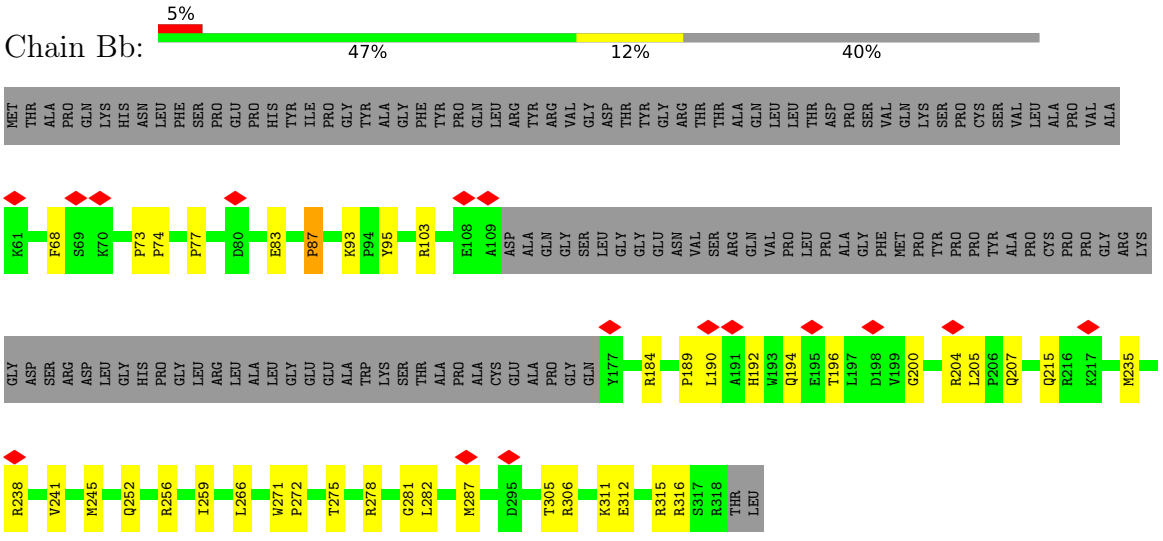
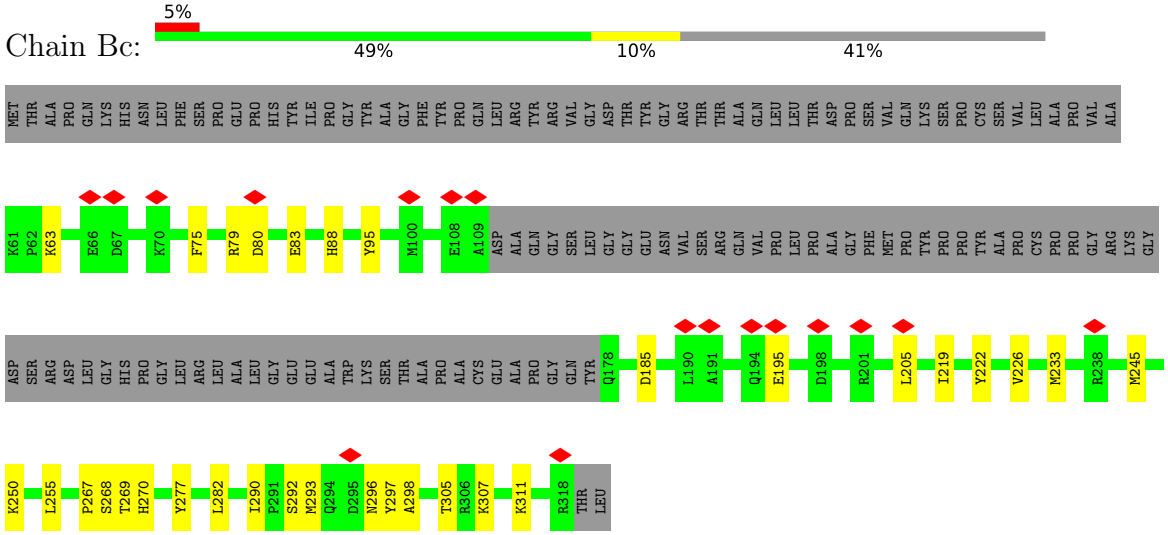


• Molecule 14: Family with sequence similarity 166 member A

Chain Bc:



• Molecule 14: Family with sequence similarity 166 member A

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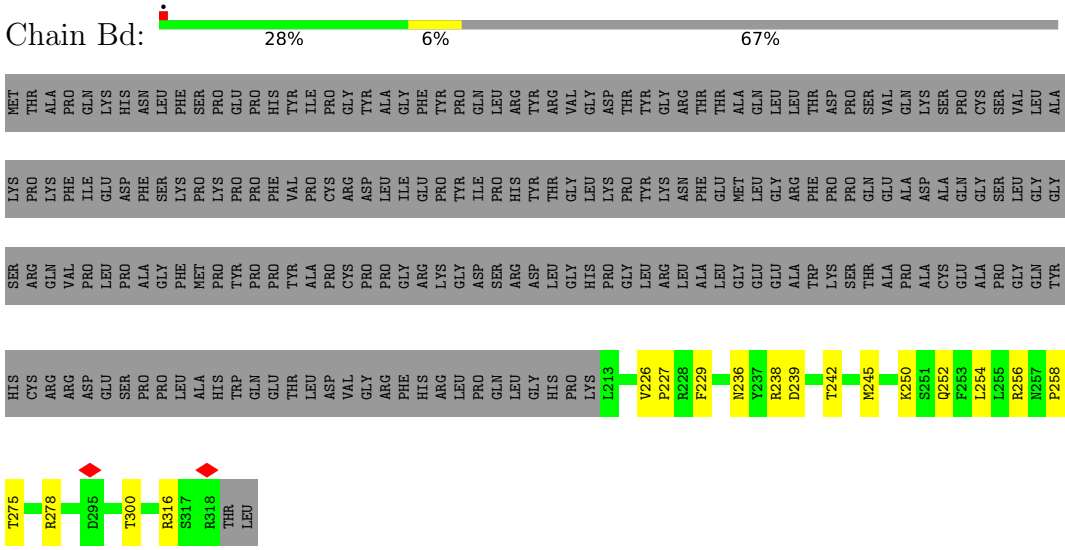

• Molecule 14: Family with sequence similarity 166 member A

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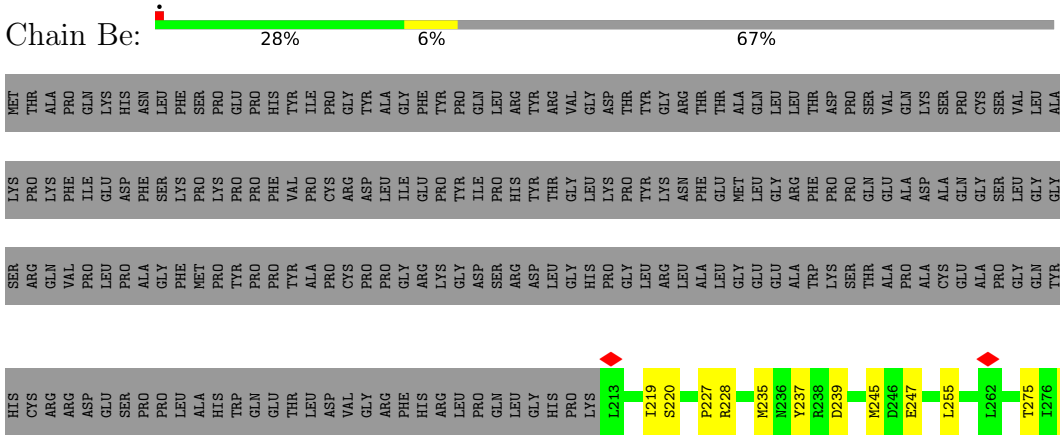

• Molecule 14: Family with sequence similarity 166 member A

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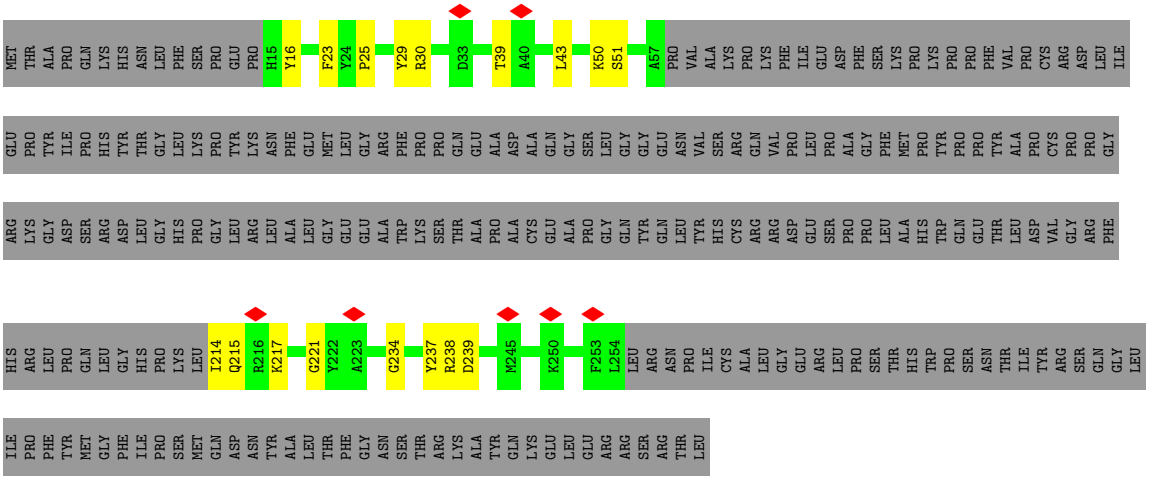
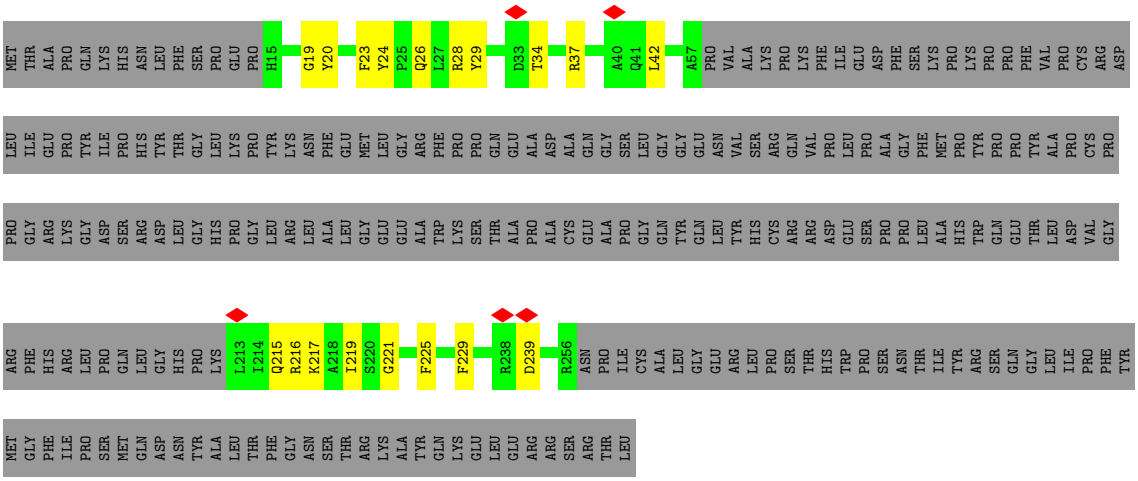


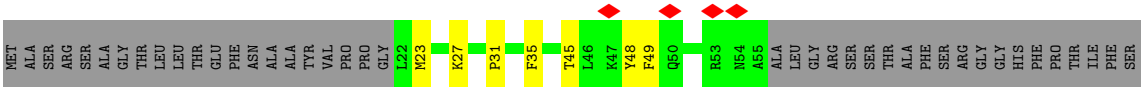
• Molecule 14: Family with sequence similarity 166 member A

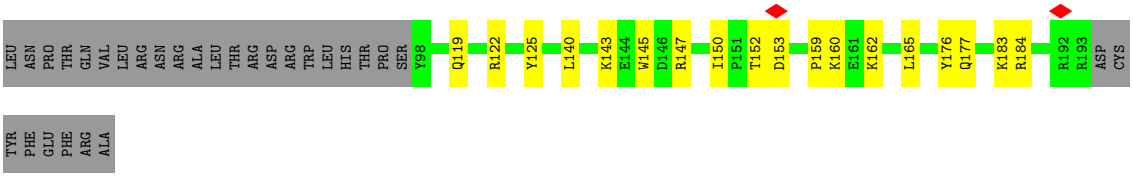
Chain CO:



• Molecule 15: Protein FAM166C

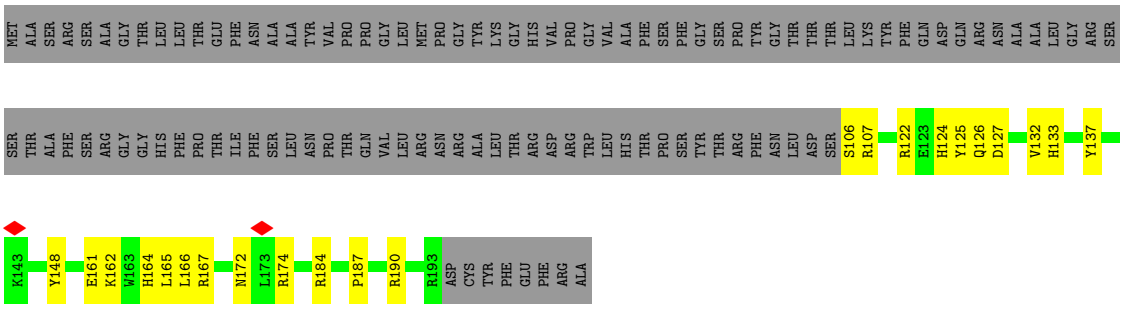
Chain Ap:





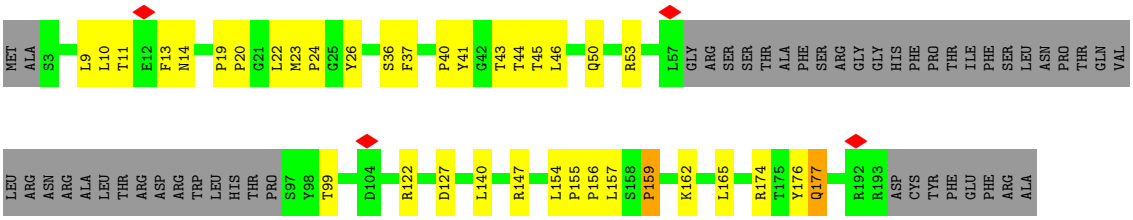
• Molecule 15: Protein FAM166C

Chain Aq:



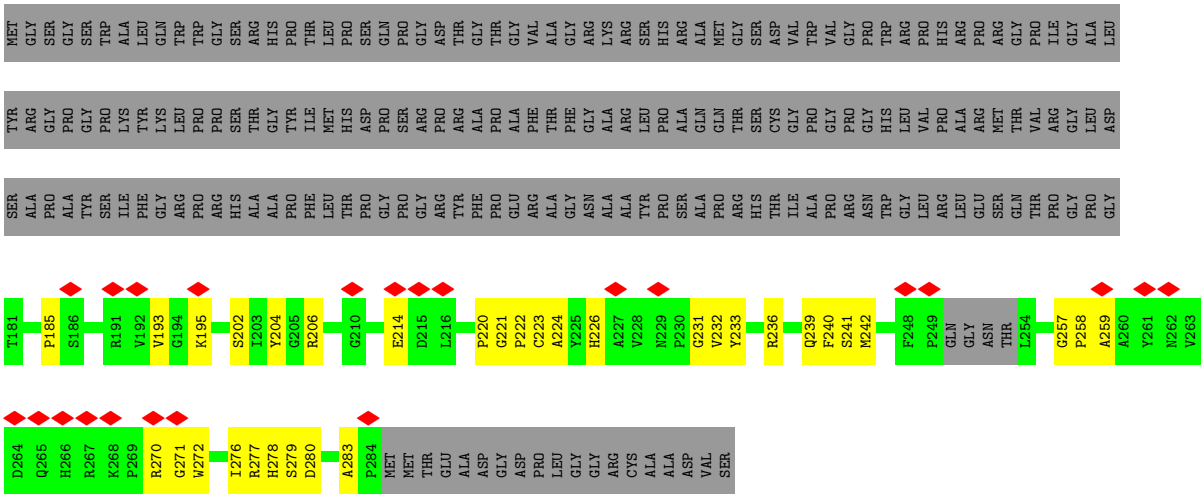
• Molecule 15: Protein FAM166C

Chain Ar:



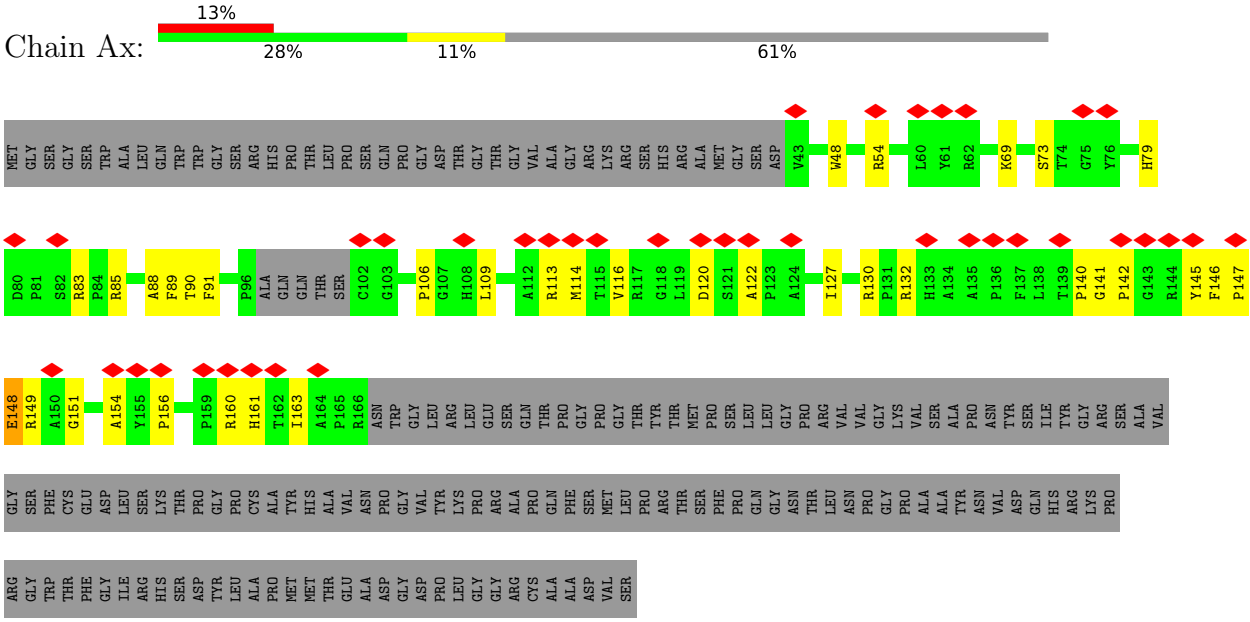
• Molecule 16: Outer dense fiber of sperm tails 3B

Chain At:



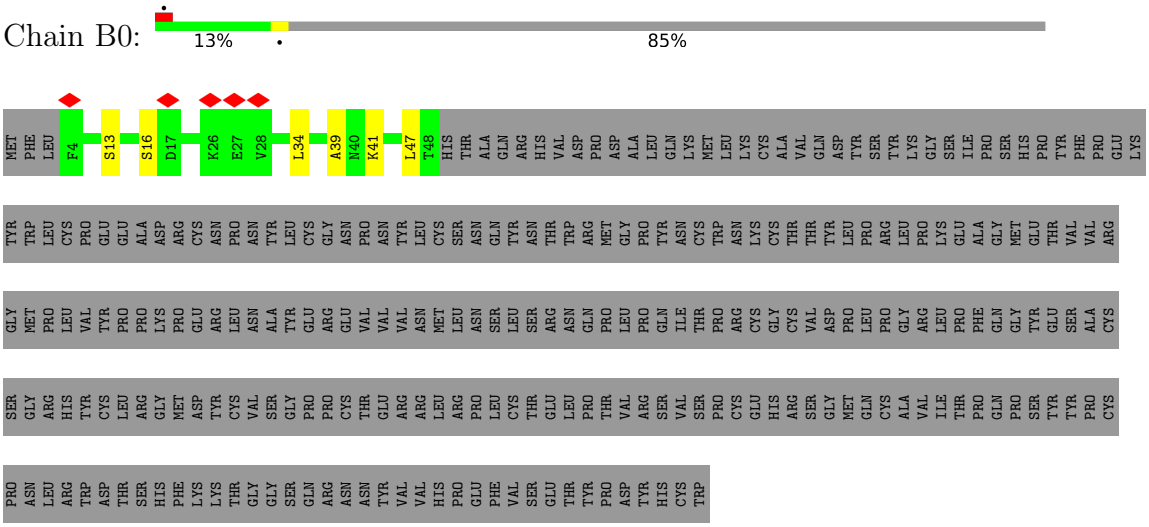
• Molecule 16: Outer dense fiber of sperm tails 3B

Chain Ax:



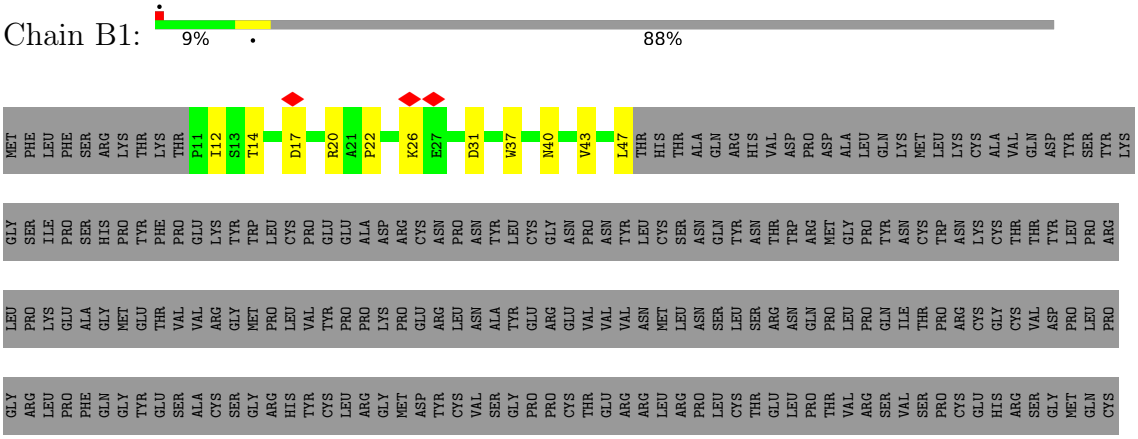
• Molecule 17: Spermatid-specific manchette-related protein 1

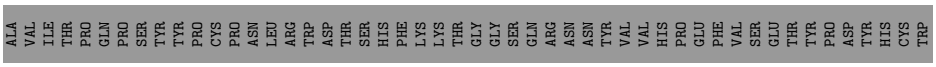
Chain B0:



• Molecule 17: Spermatid-specific manchette-related protein 1

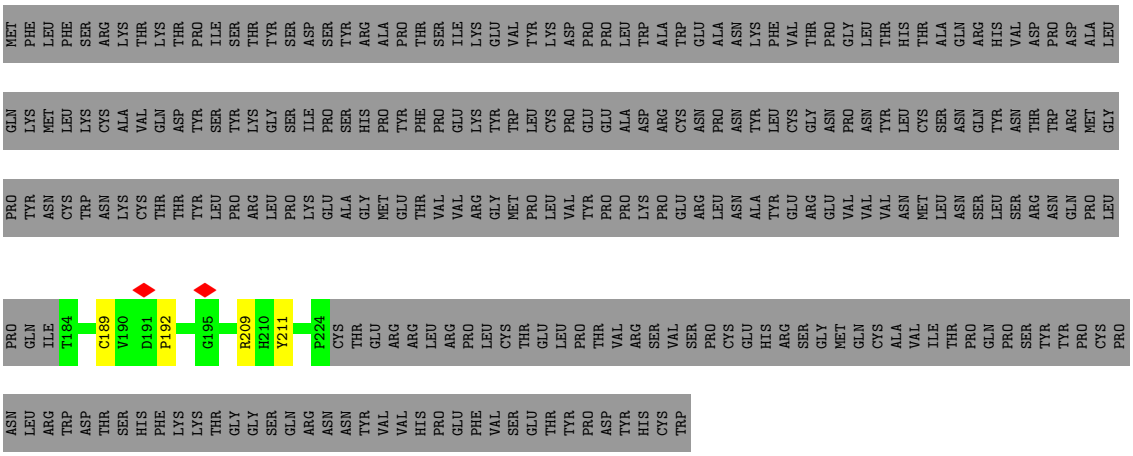
Chain B1:





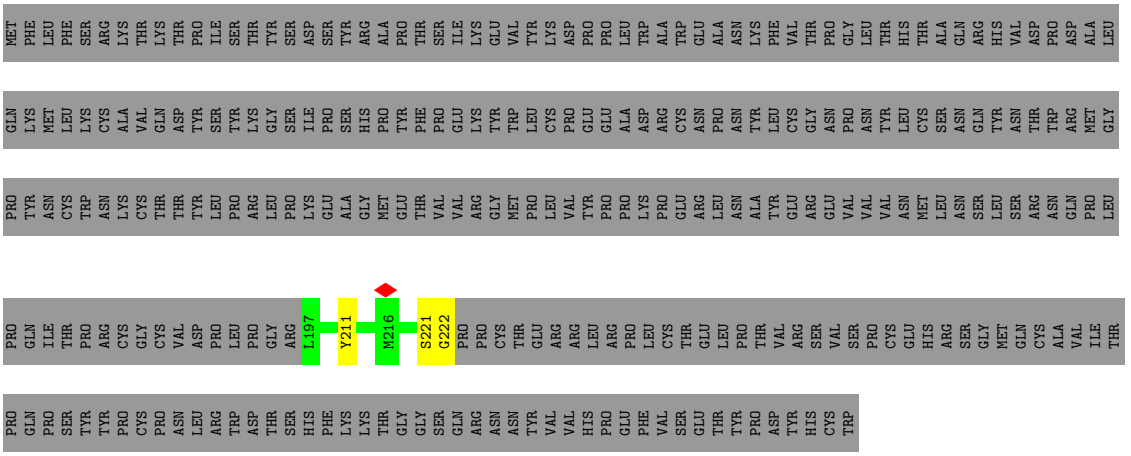
• Molecule 17: Spermatid-specific manchette-related protein 1

Chain B2:



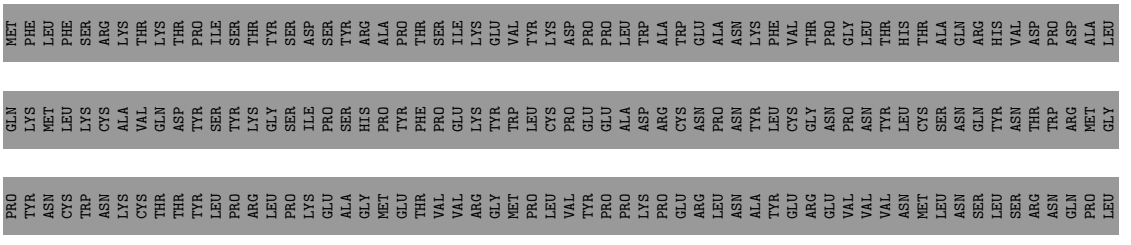
• Molecule 17: Spermatid-specific manchette-related protein 1

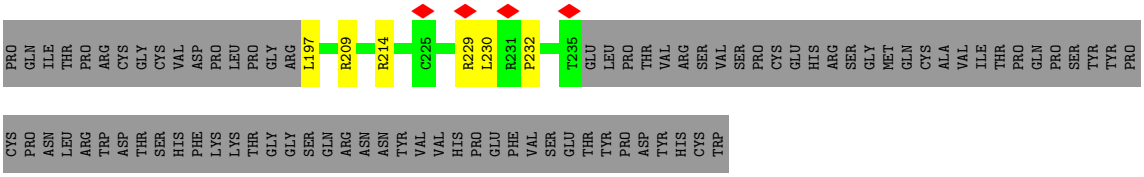
Chain B3:



• Molecule 17: Spermatid-specific manchette-related protein 1

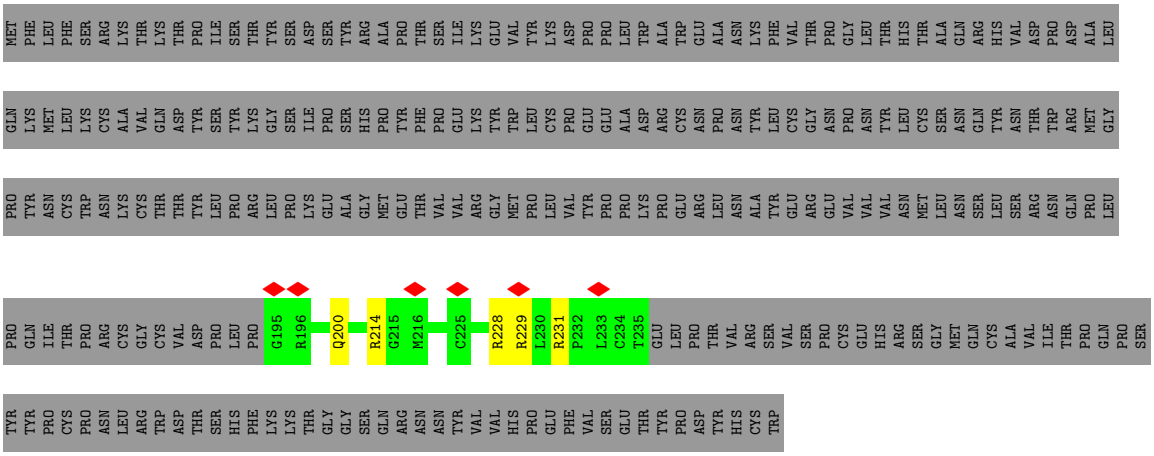
Chain B4:





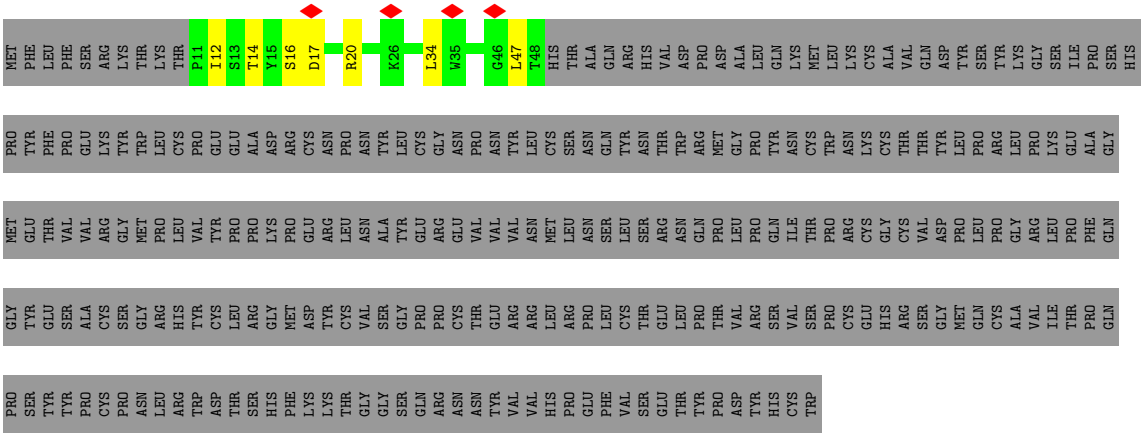
• Molecule 17: Spermatid-specific manchette-related protein 1

Chain B8:



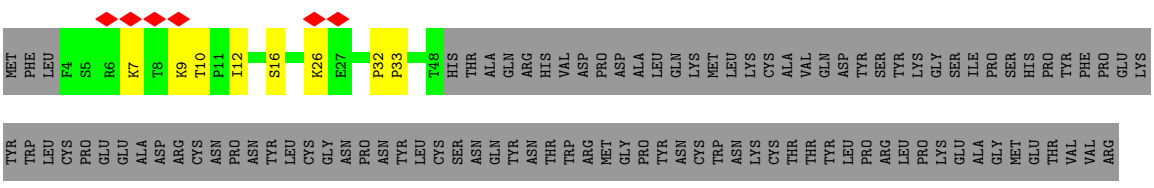
• Molecule 17: Spermatid-specific manchette-related protein 1

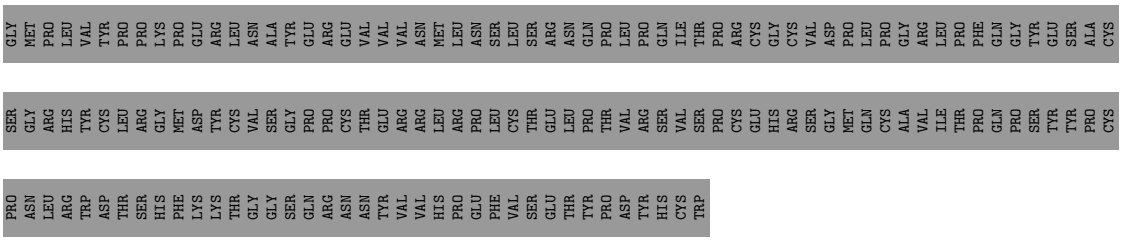
Chain B9:



• Molecule 17: Spermatid-specific manchette-related protein 1

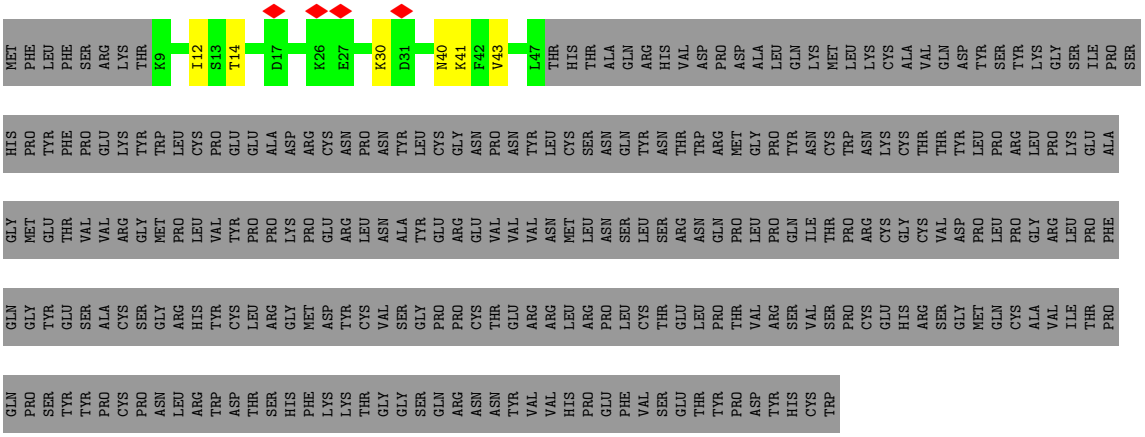
Chain CQ:





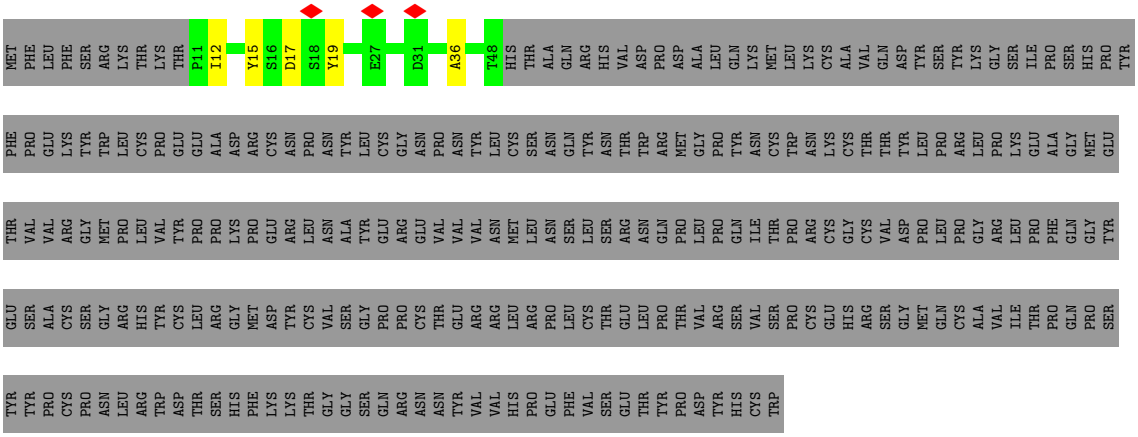
• Molecule 17: Spermatid-specific manchette-related protein 1

Chain CR:



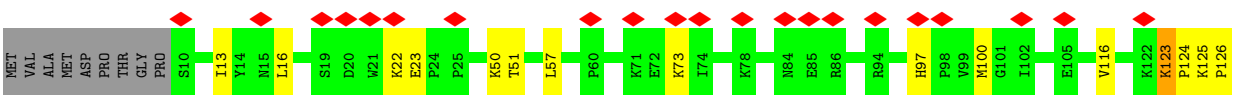
• Molecule 17: Spermatid-specific manchette-related protein 1

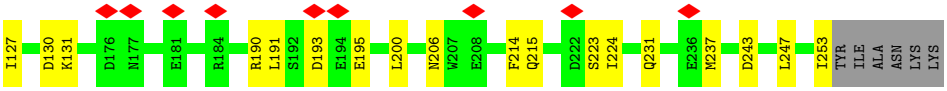
Chain CS:



• Molecule 18: Enkurin

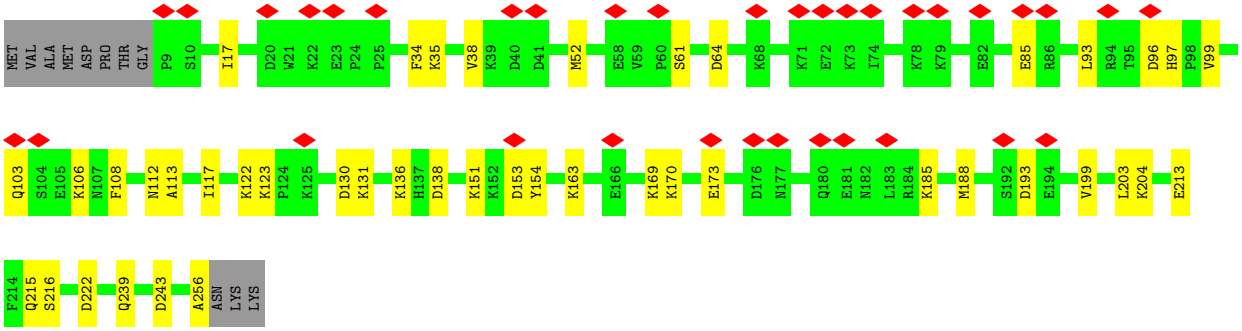
Chain B5:





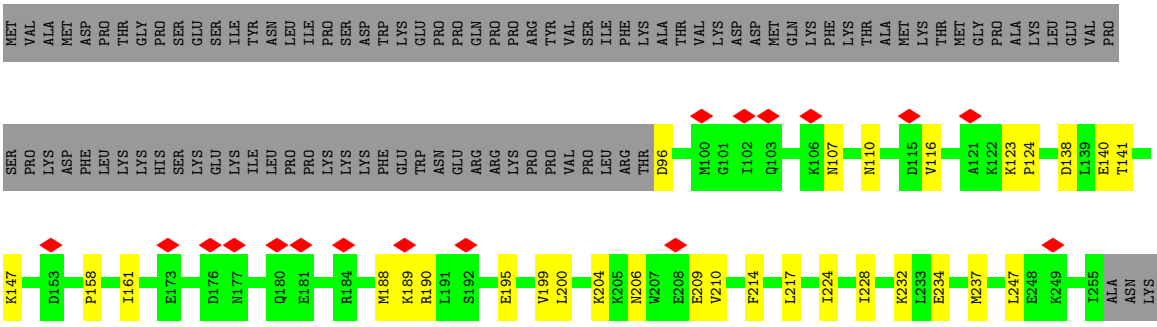
• Molecule 18: Enkurin

Chain B6:



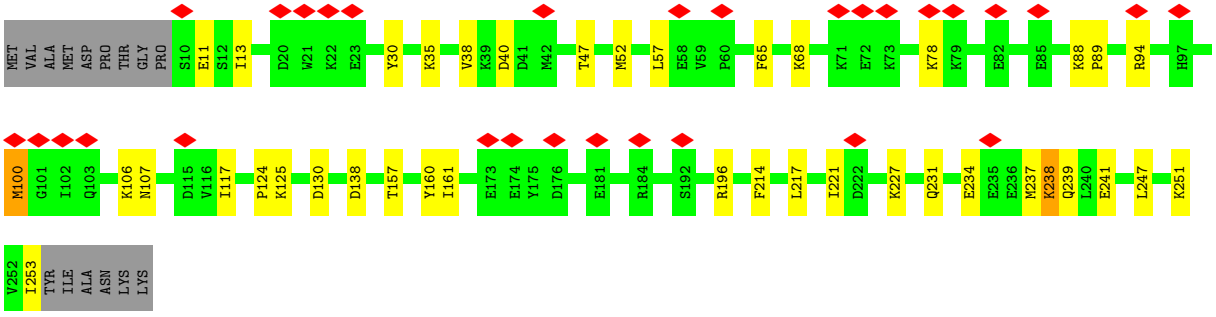
• Molecule 18: Enkurin

Chain By:



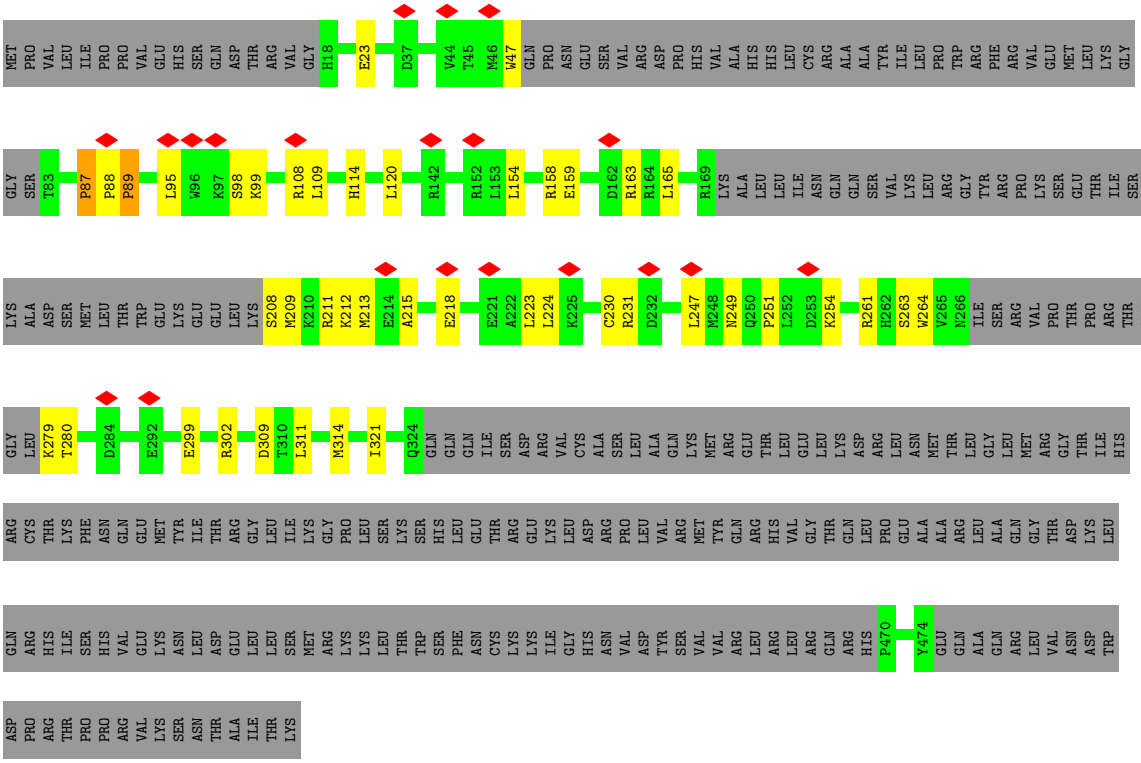
• Molecule 18: Enkurin

Chain Bz:



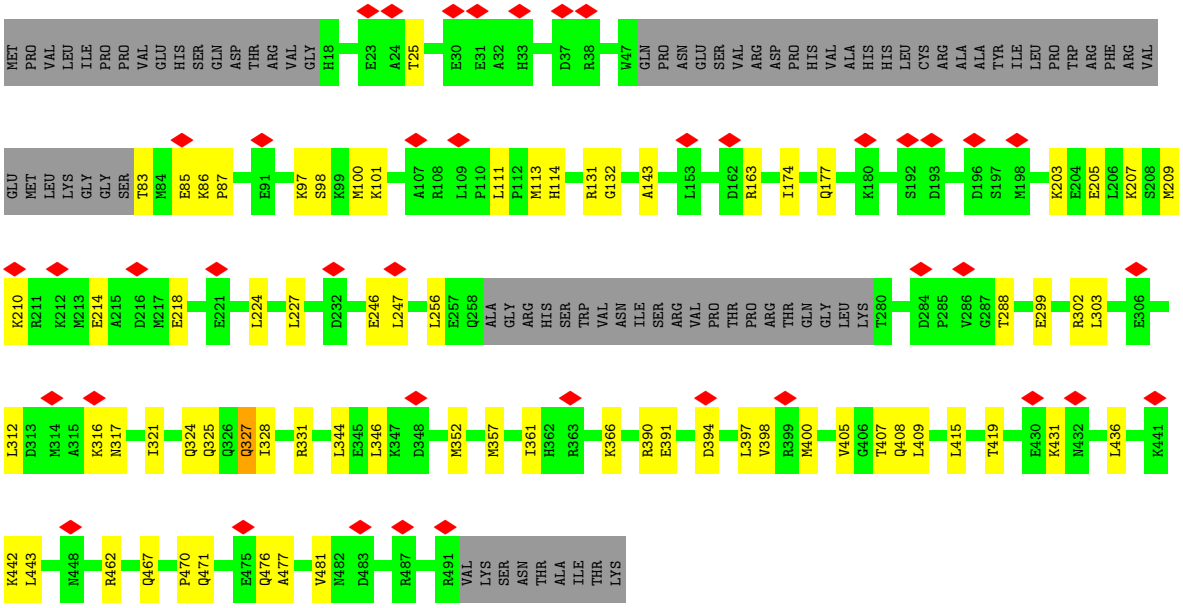
• Molecule 19: Coiled-coil domain-containing protein 105

Chain BO:



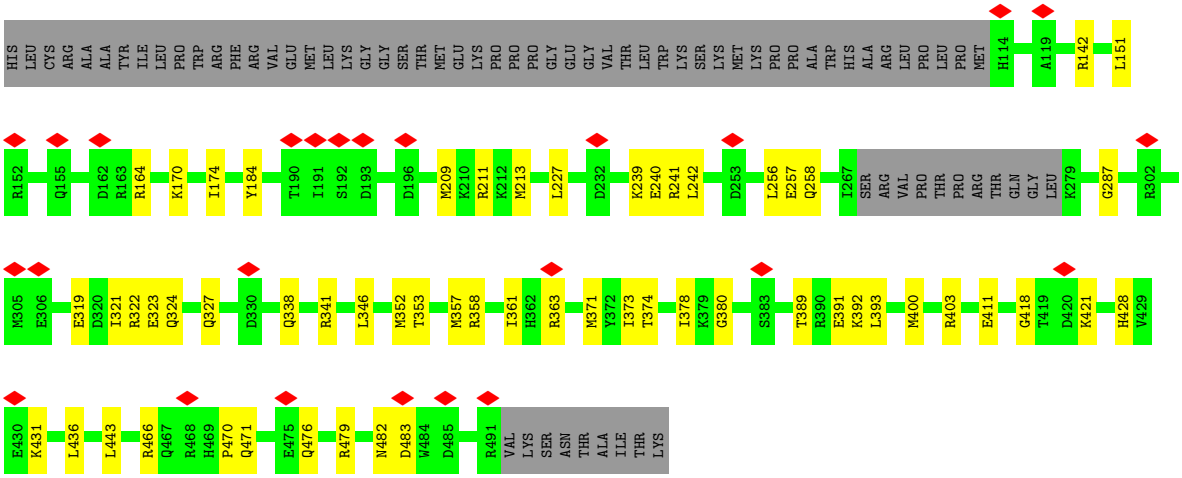
• Molecule 19: Coiled-coil domain-containing protein 105

Chain BP:



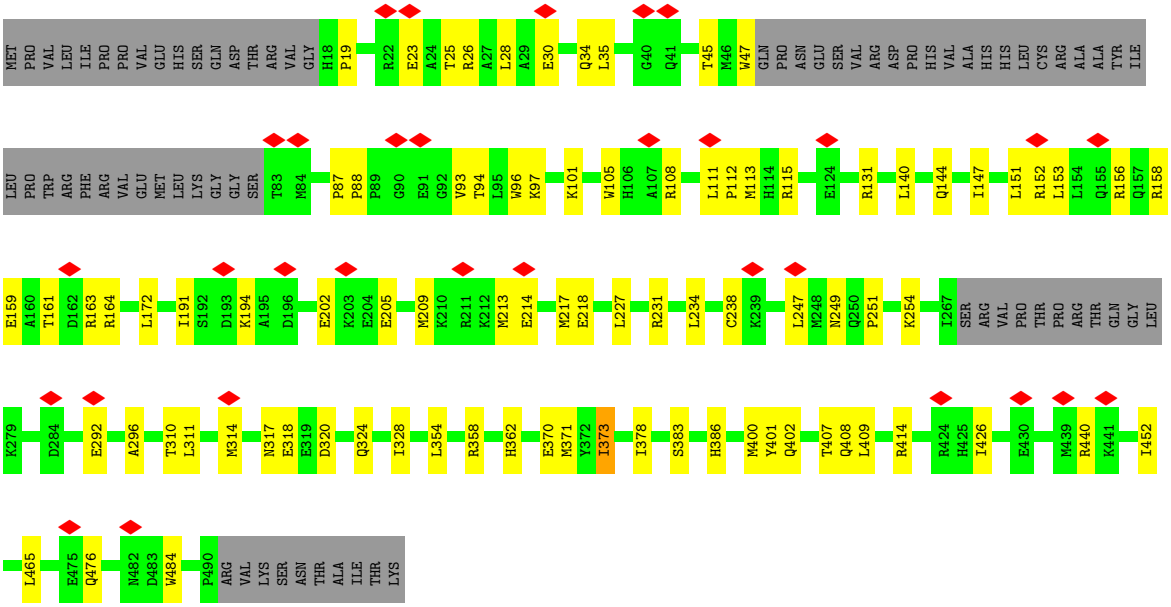
• Molecule 19: Coiled-coil domain-containing protein 105

Chain BQ:



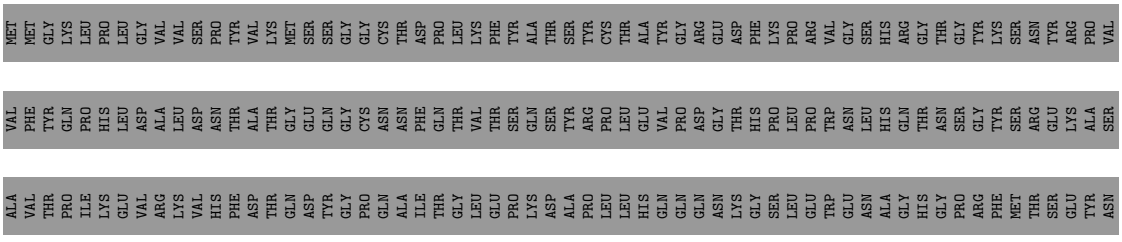
• Molecule 19: Coiled-coil domain-containing protein 105

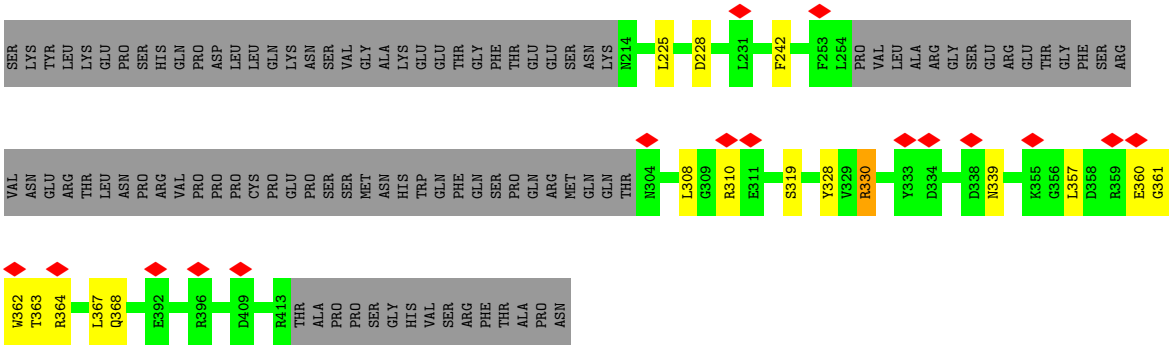
Chain BR:



• Molecule 20: Protein phosphatase 1 regulatory subunit 32

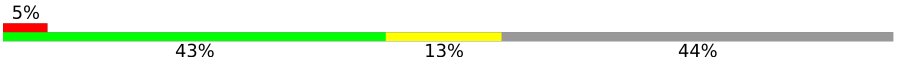
Chain BS:

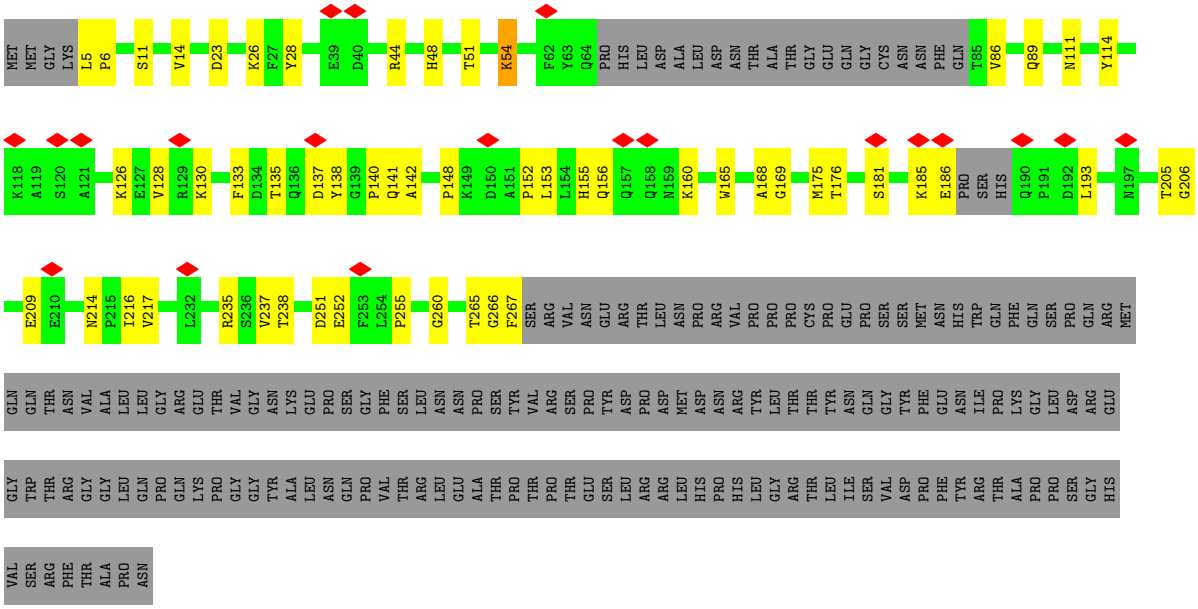




• Molecule 20: Protein phosphatase 1 regulatory subunit 32

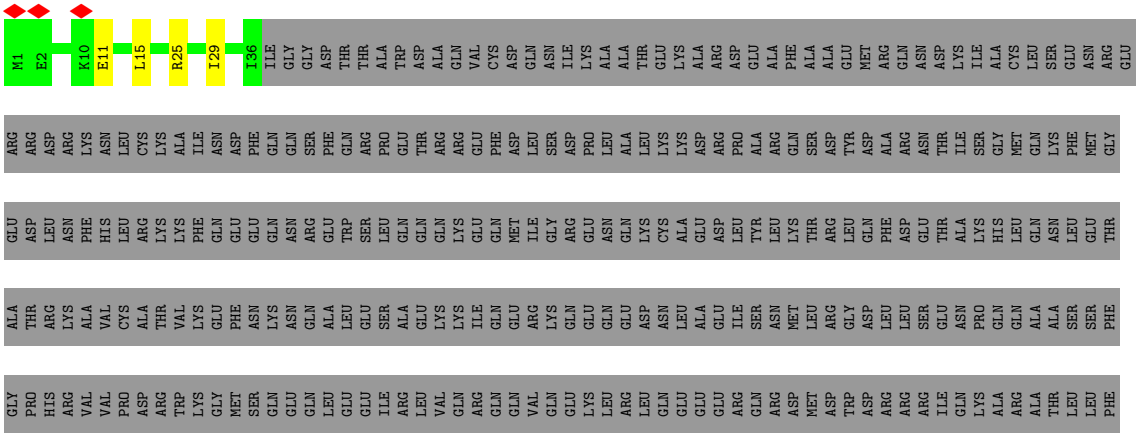
Chain BT:





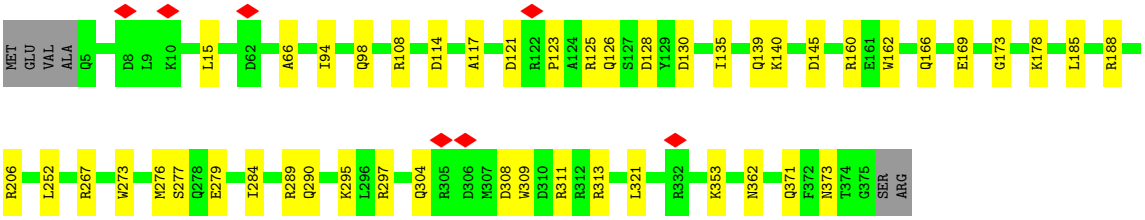
• Molecule 21: RIB43A-like with coiled-coils protein 2

Chain BU:



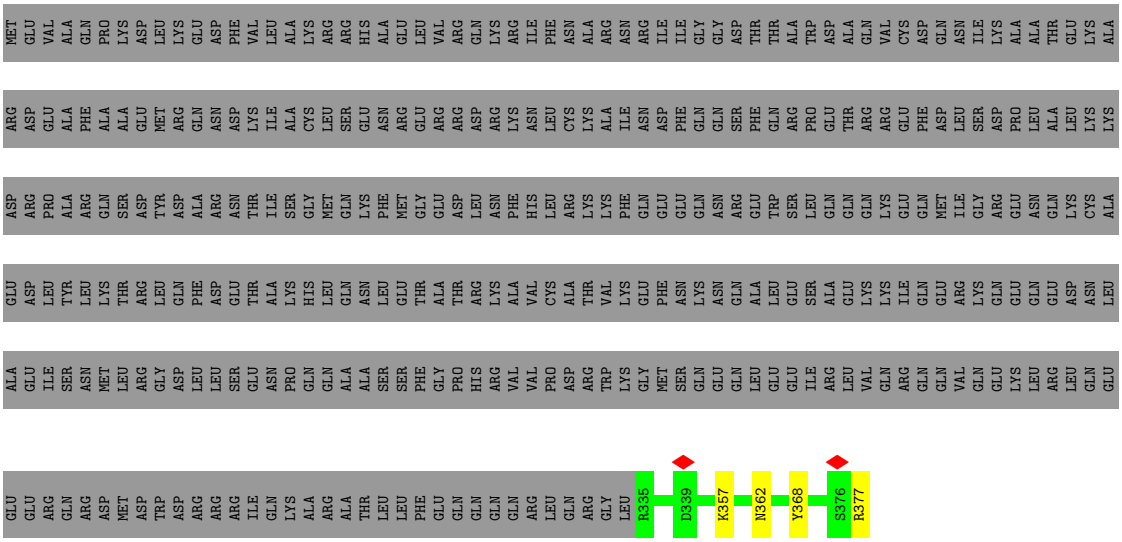
• Molecule 21: RIB43A-like with coiled-coils protein 2

Chain BV:



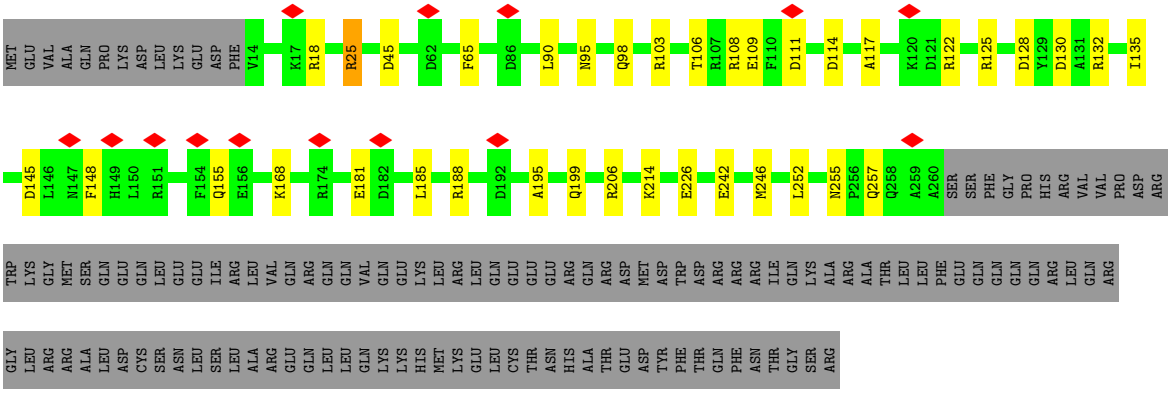
• Molecule 21: RIB43A-like with coiled-coils protein 2

Chain Bi:



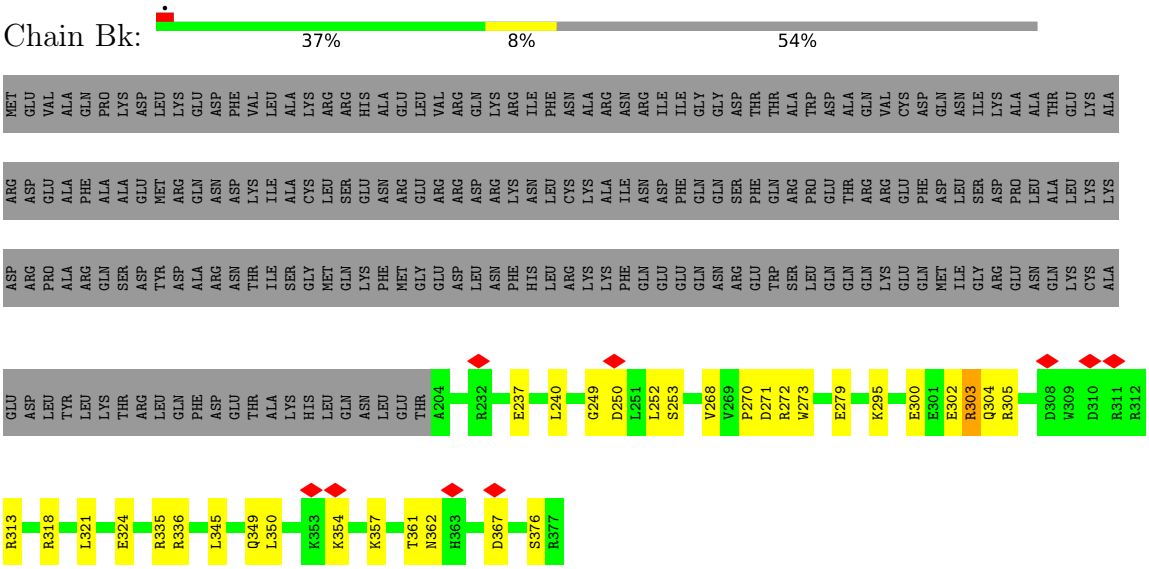
• Molecule 21: RIB43A-like with coiled-coils protein 2

Chain Bj:



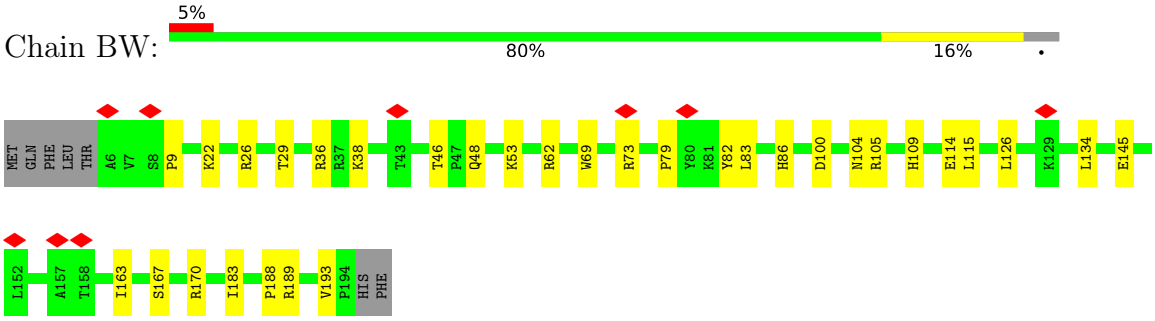
• Molecule 21: RIB43A-like with coiled-coils protein 2

Chain Bk:



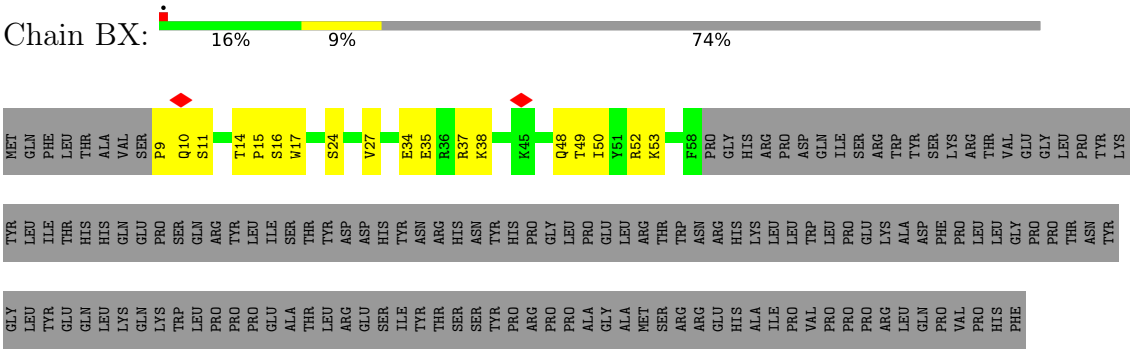
• Molecule 22: Cilia- and flagella-associated protein 107

Chain BW:



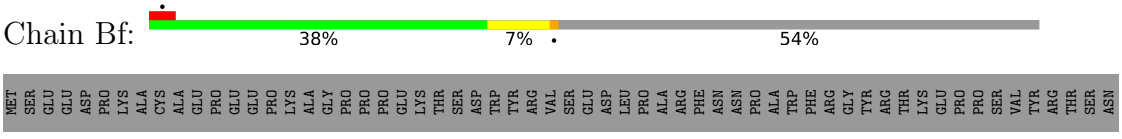
• Molecule 22: Cilia- and flagella-associated protein 107

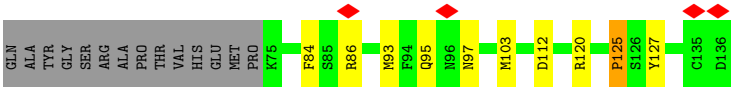
Chain BX:



• Molecule 23: Piercer of microtubule wall 1 protein

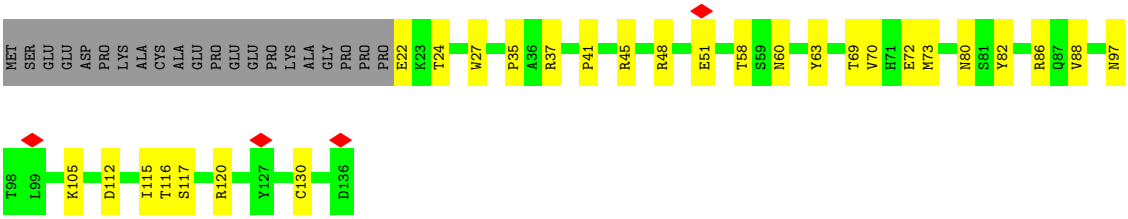
Chain Bf:





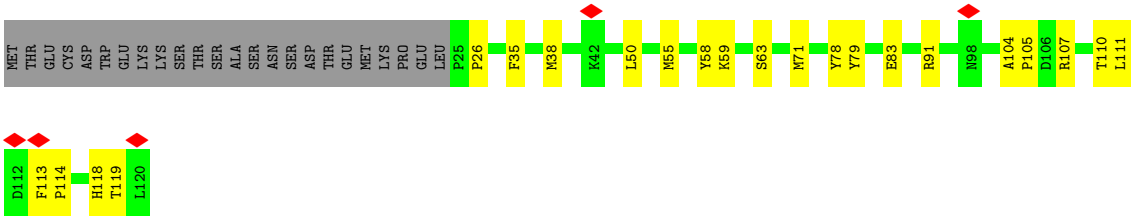
• Molecule 23: Piercer of microtubule wall 1 protein

Chain Bg:



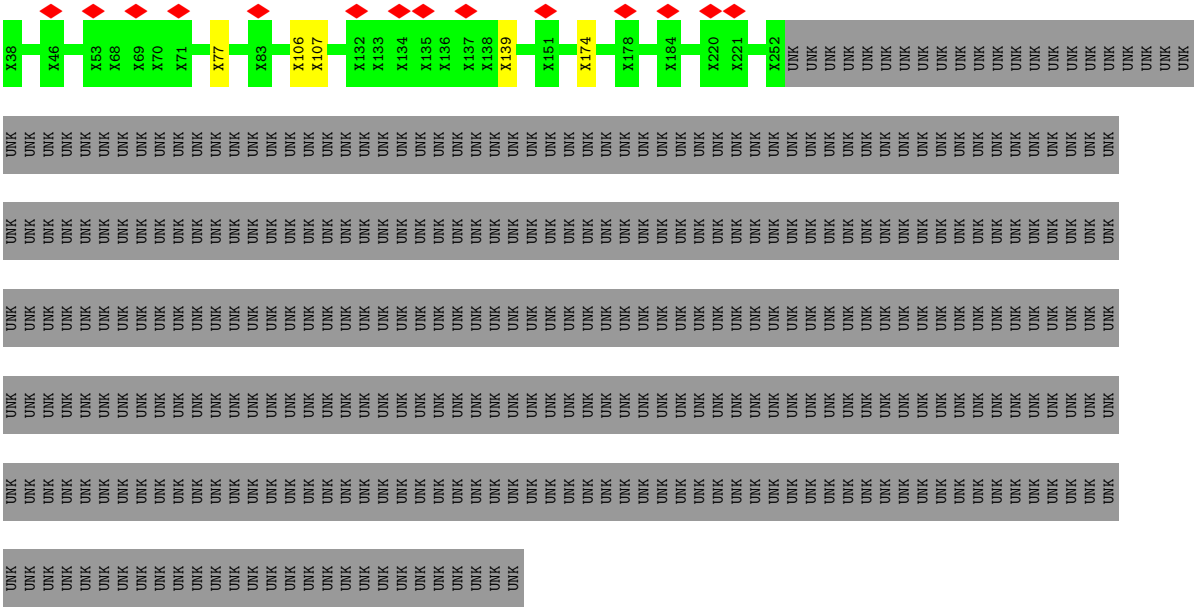
• Molecule 24: Piercer of microtubule wall 2 protein

Chain Bh:



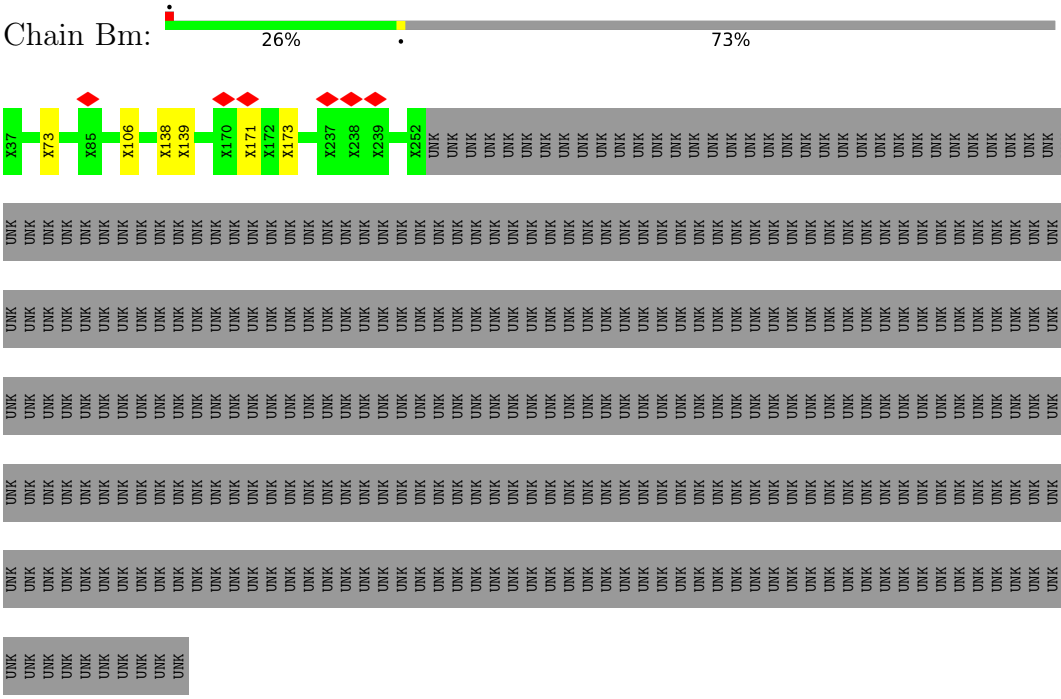
• Molecule 25: Stabilizer of axonemal microtubules 1

Chain Bl:



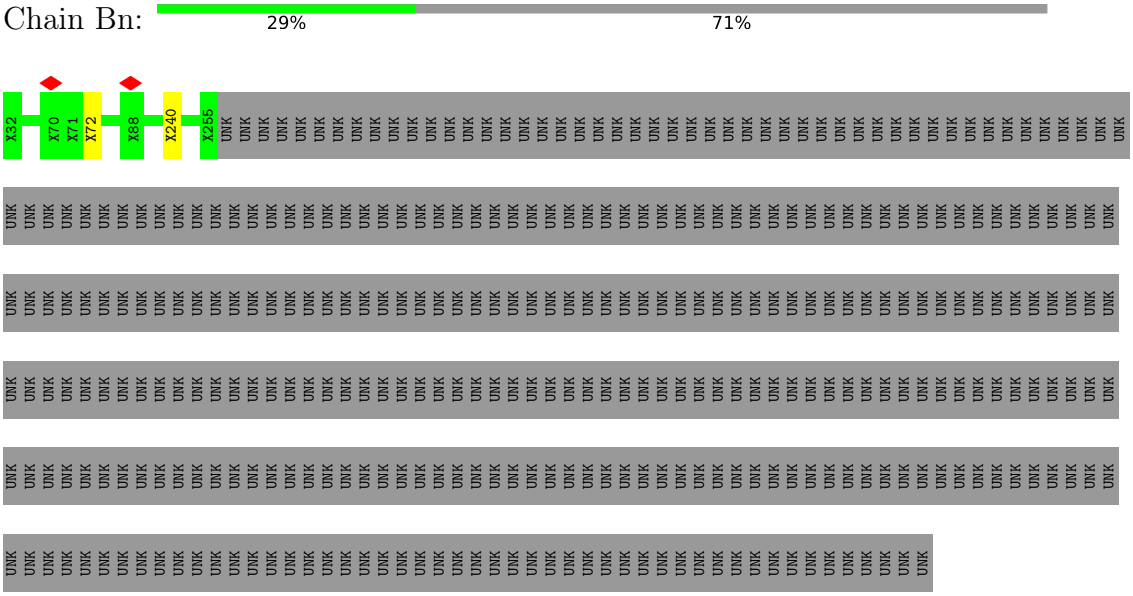
• Molecule 25: Stabilizer of axonemal microtubules 1

Chain Bm:



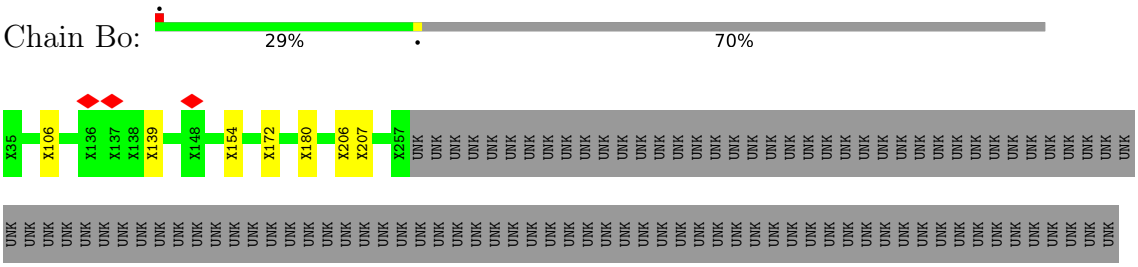
• Molecule 25: Stabilizer of axonemal microtubules 1

Chain Bn:



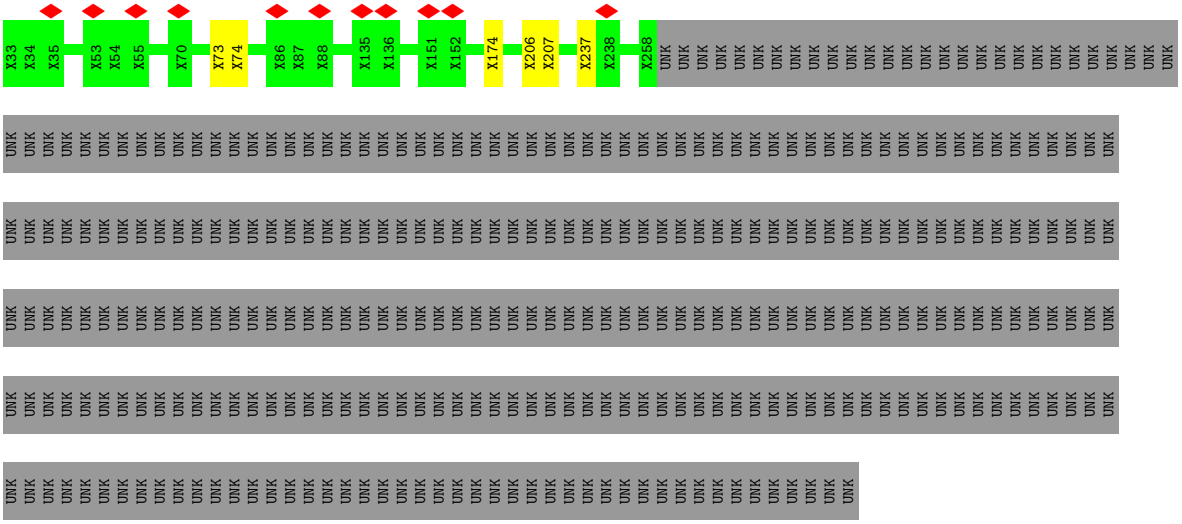
• Molecule 25: Stabilizer of axonemal microtubules 1

Chain Bo:



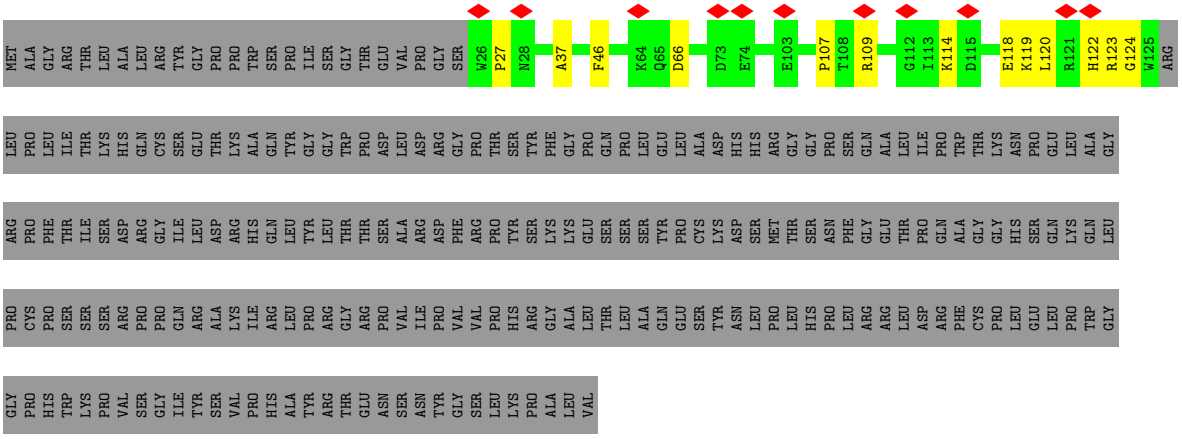
• Molecule 25: Stabilizer of axonemal microtubules 1

Chain Bp:



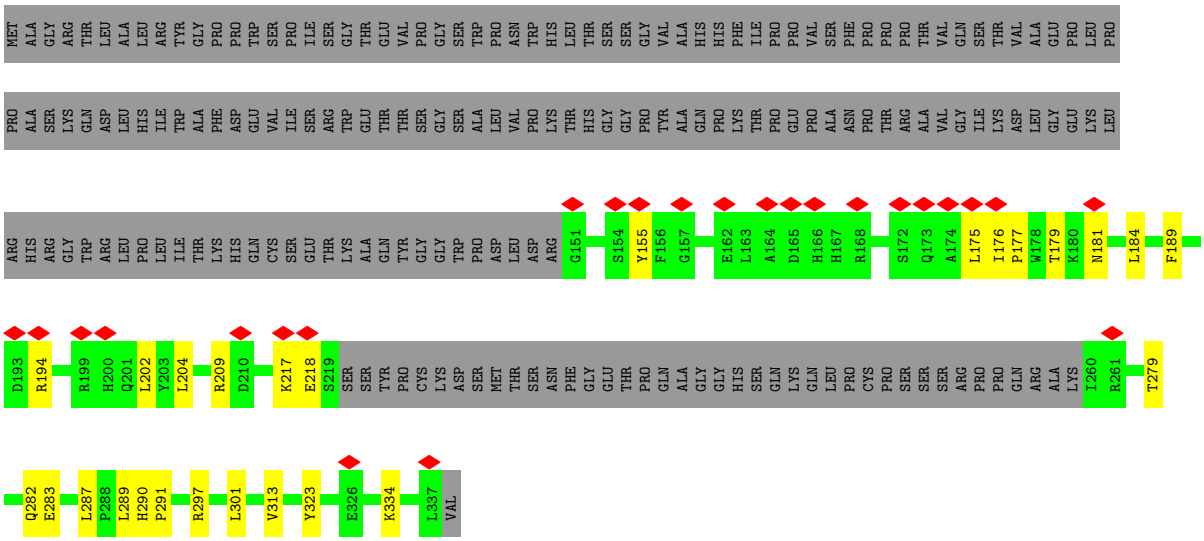
• Molecule 26: Stabilizer of axonemal microtubules 3

Chain Bq:



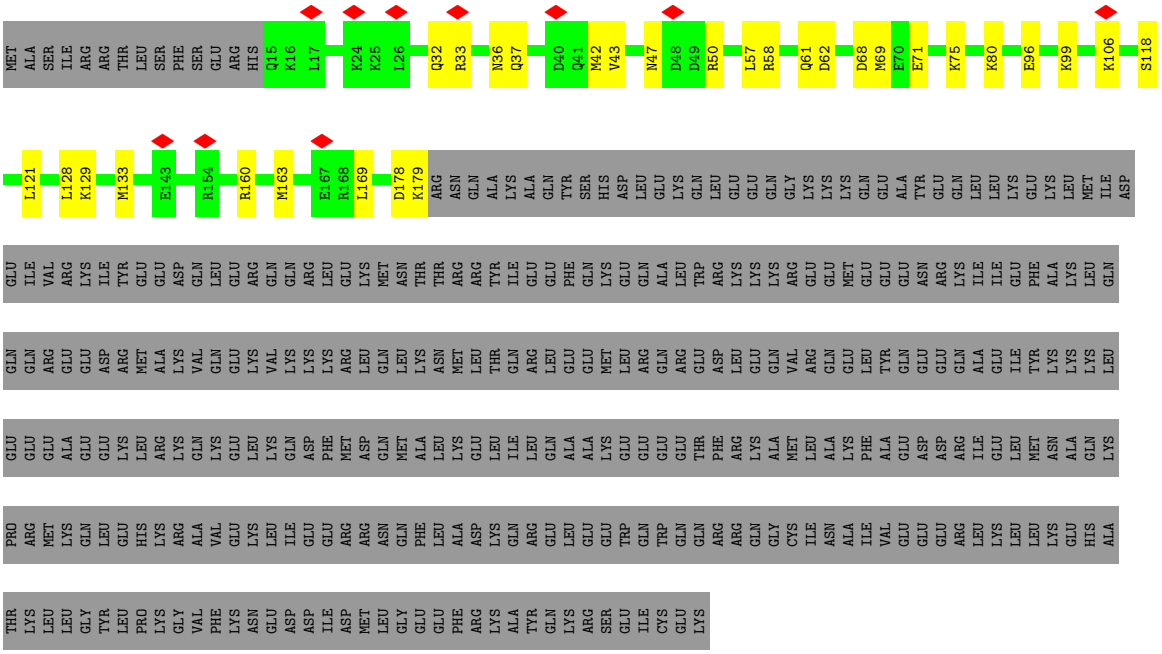
• Molecule 26: Stabilizer of axonemal microtubules 3

Chain Bu:



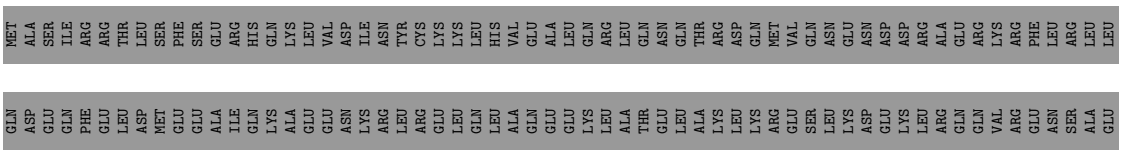
• Molecule 27: Meiosis-specific nuclear structural protein 1

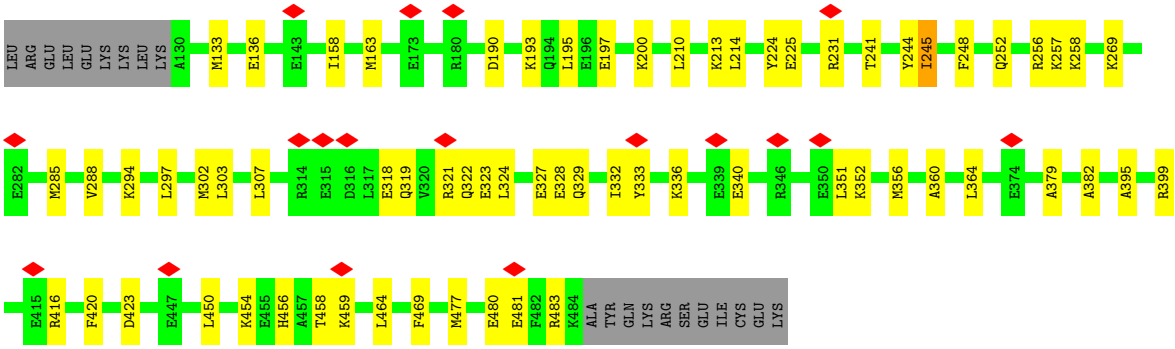
Chain Br:



• Molecule 27: Meiosis-specific nuclear structural protein 1

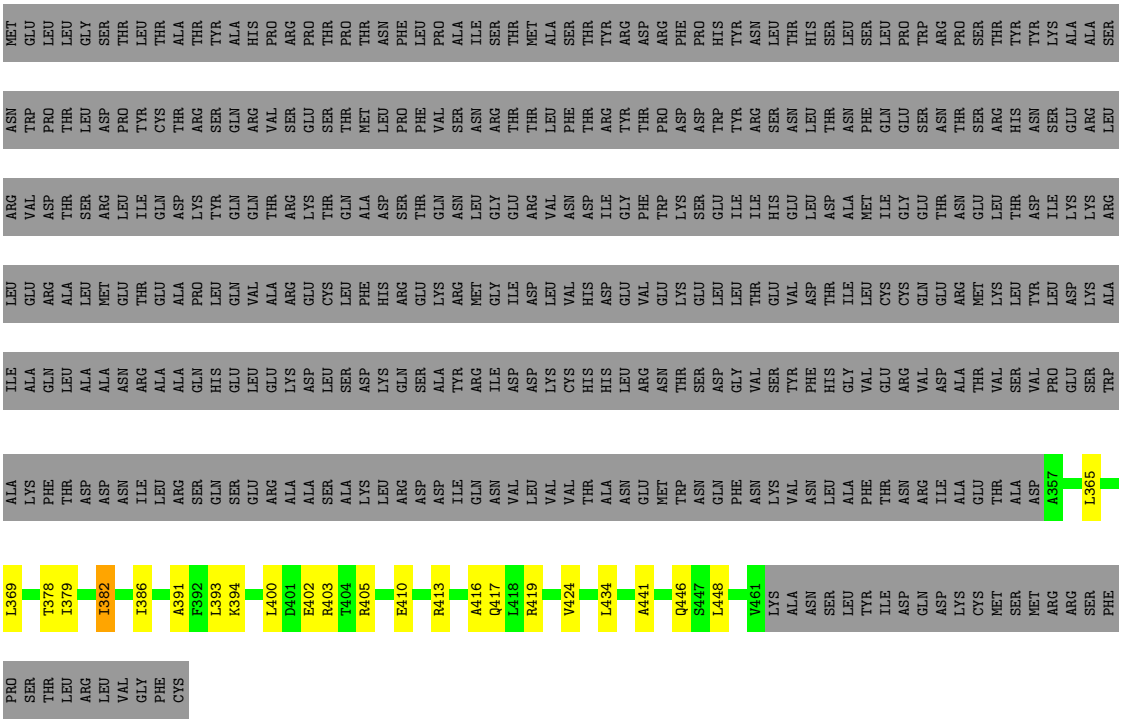
Chain Bs:





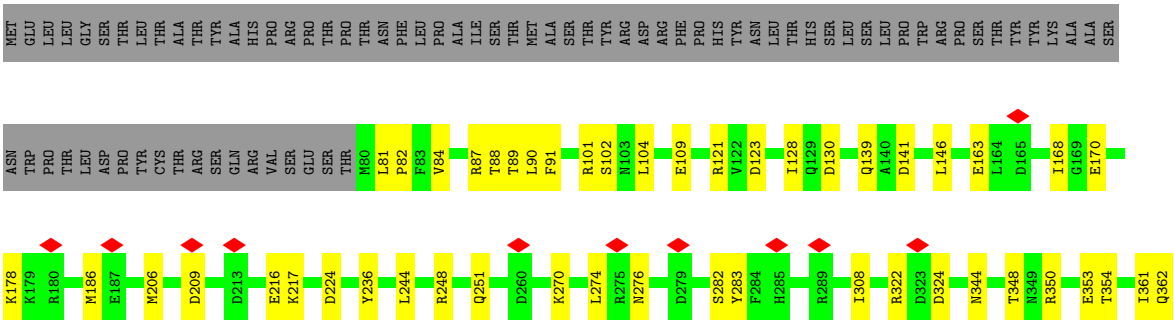
• Molecule 28: Tektin-3

Chain C0:



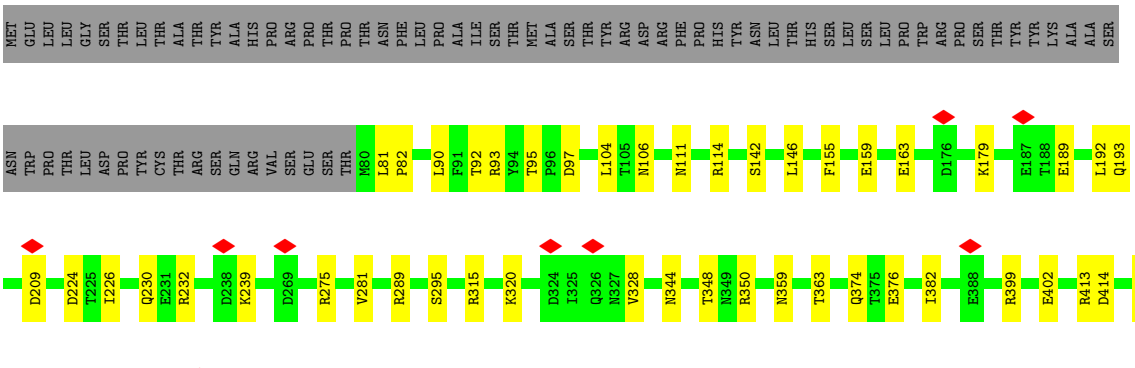
• Molecule 28: Tektin-3

Chain C2:



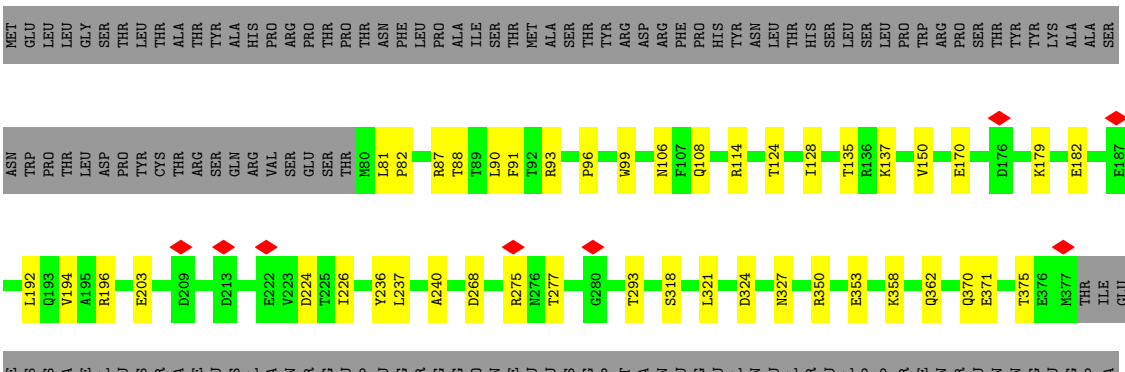
• Molecule 28: Tektin-3

Chain C3:



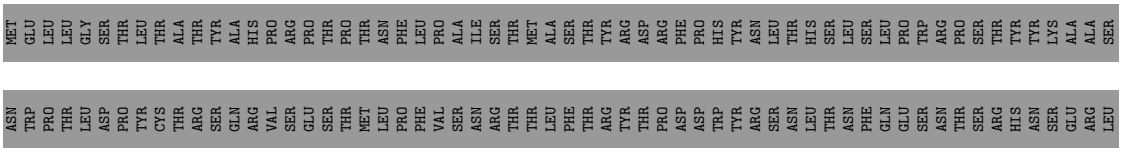
• Molecule 28: Tektin-3

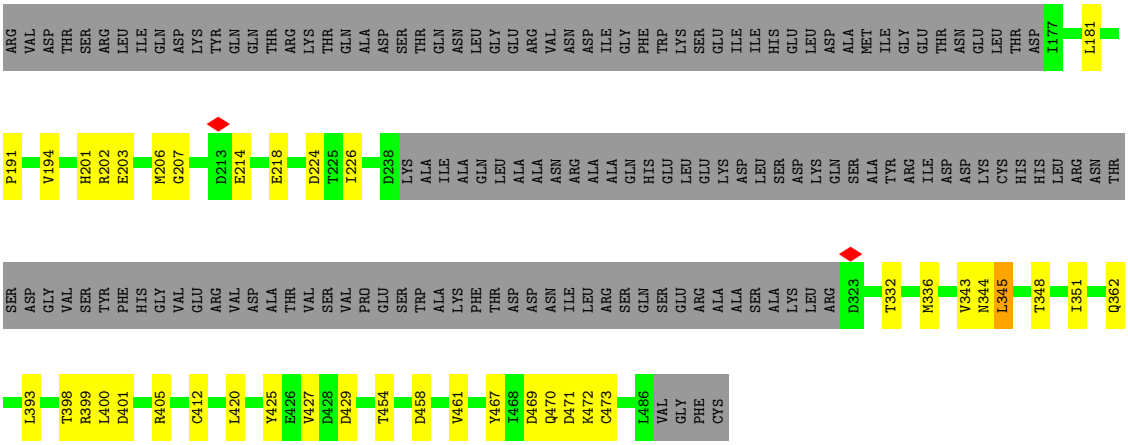
Chain C4:



• Molecule 28: Tektin-3

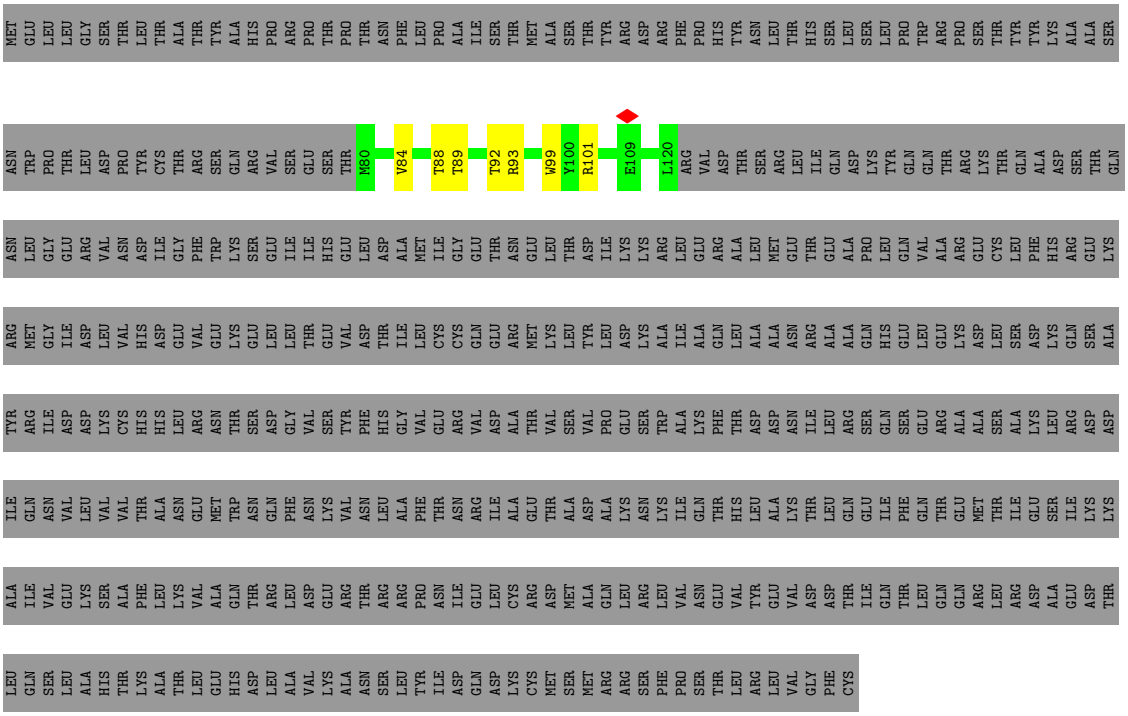
Chain C5:





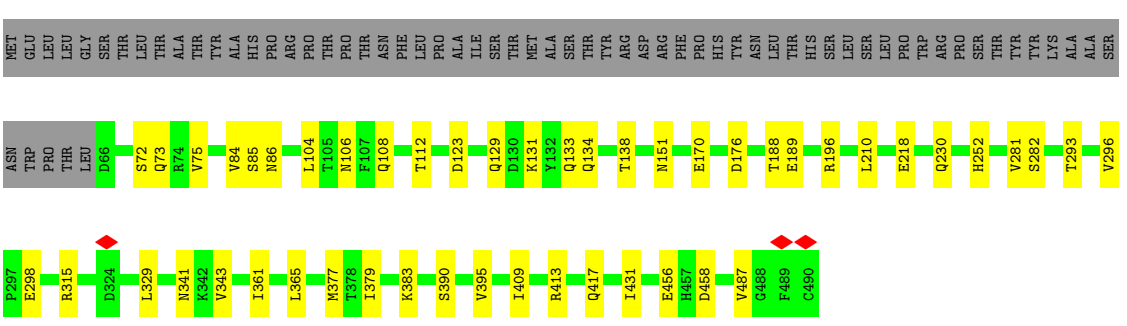
• Molecule 28: Tektin-3

Chain C6:



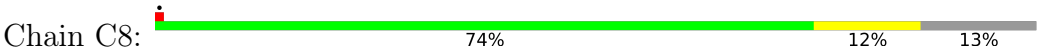
• Molecule 28: Tektin-3

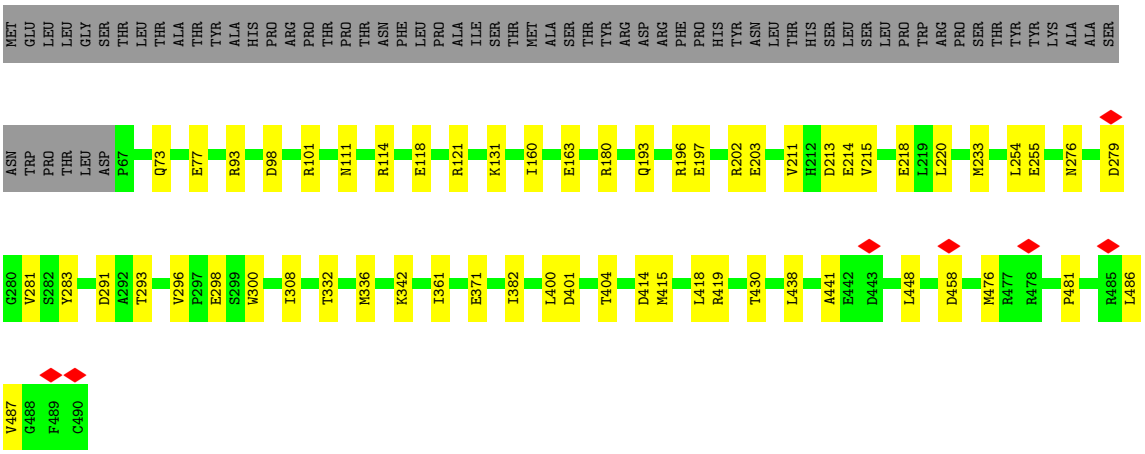
Chain C7:



• Molecule 28: Tektin-3

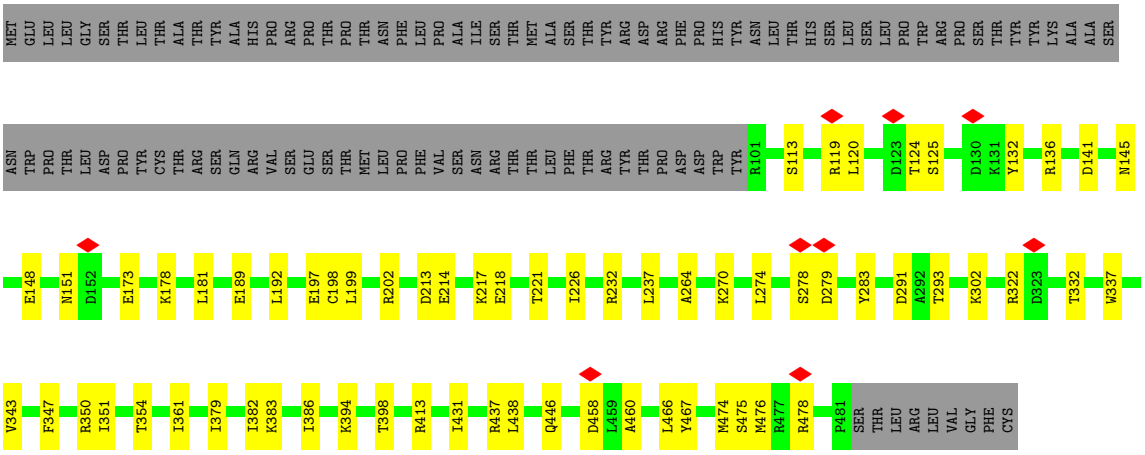
Chain C8:





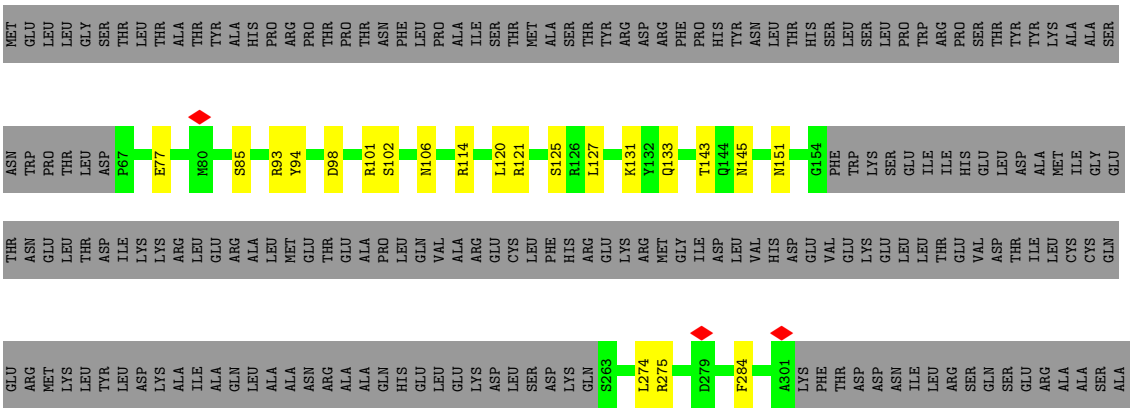
• Molecule 28: Tektin-3

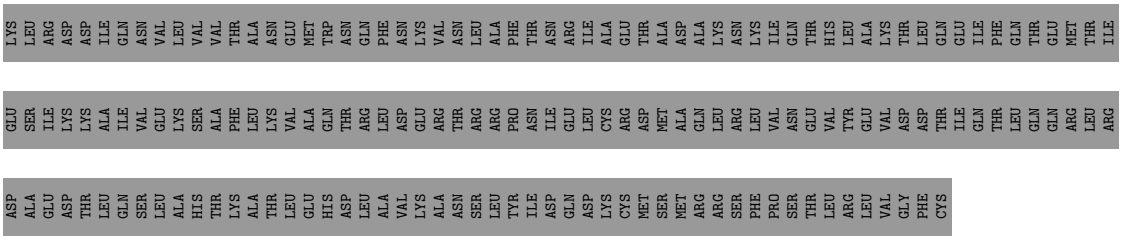
Chain C9:



• Molecule 28: Tektin-3

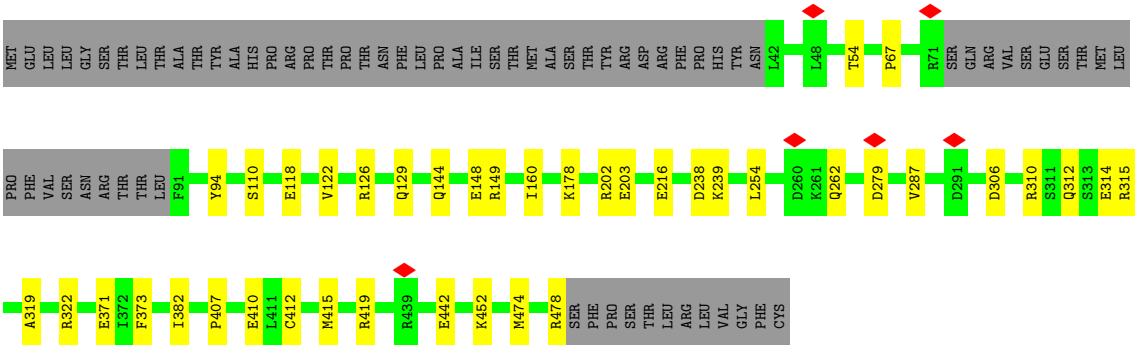
Chain DO:





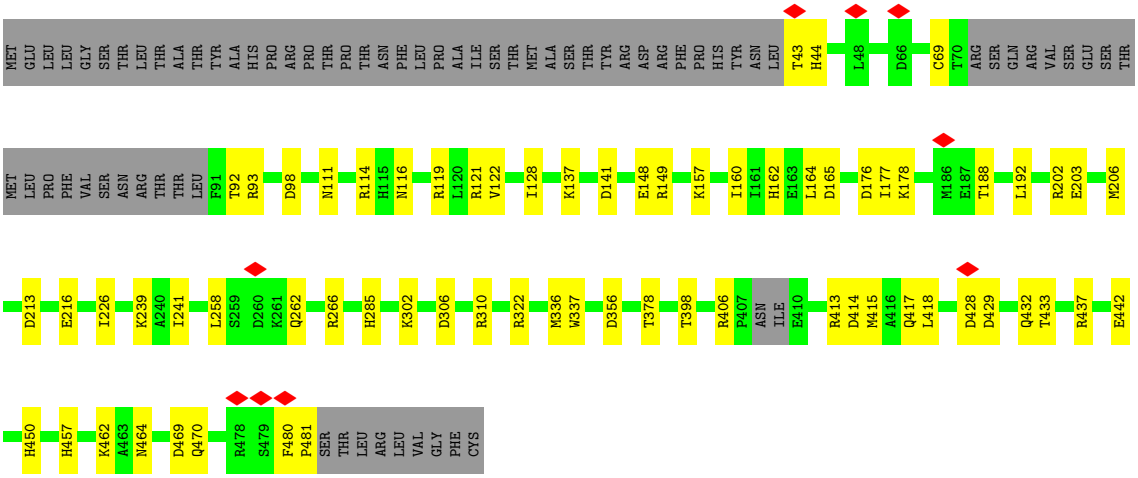
• Molecule 28: Tektin-3

Chain F2:



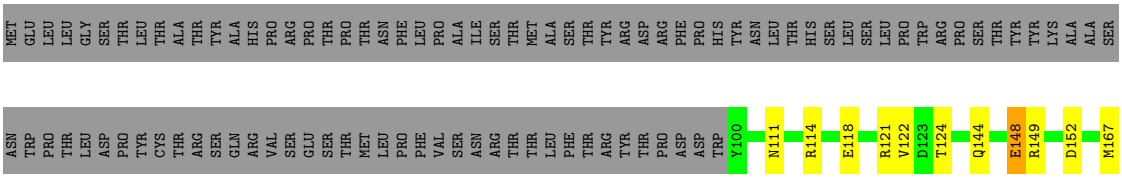
• Molecule 28: Tektin-3

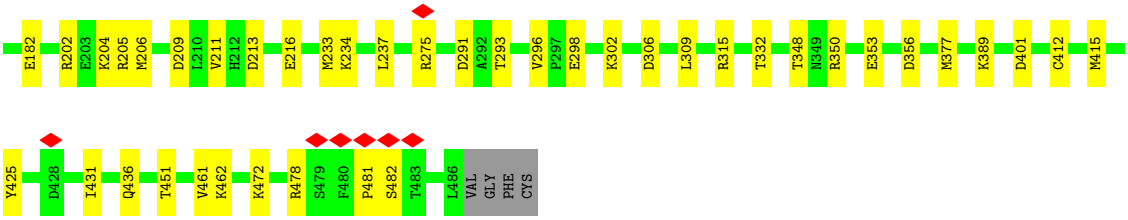
Chain F3:



• Molecule 28: Tektin-3

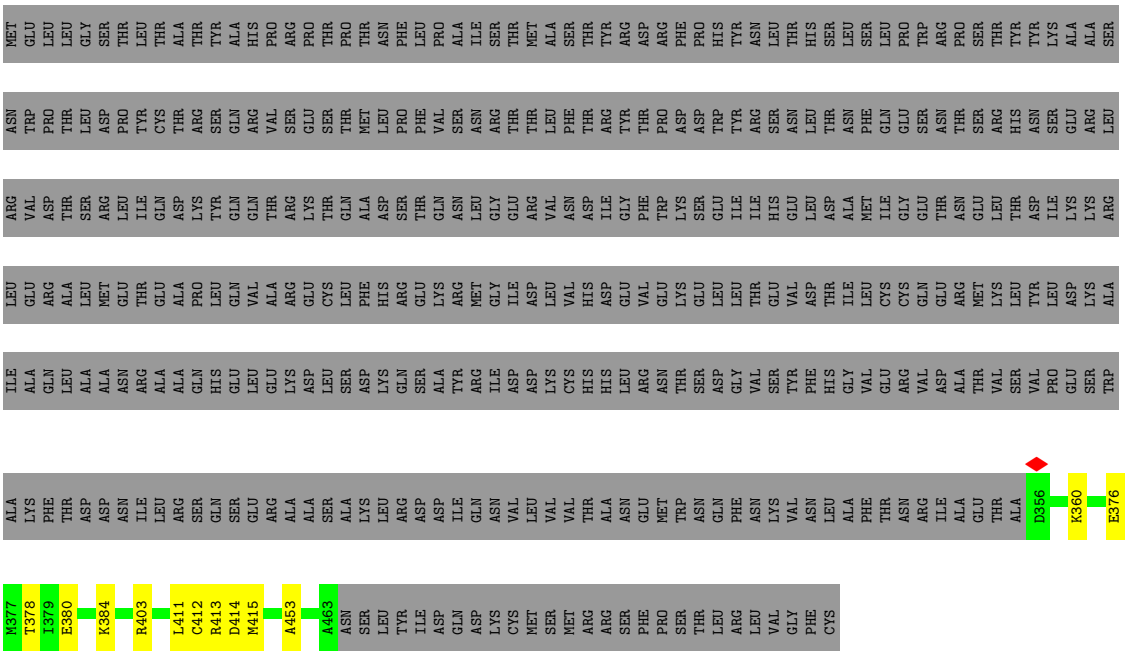
Chain F4:





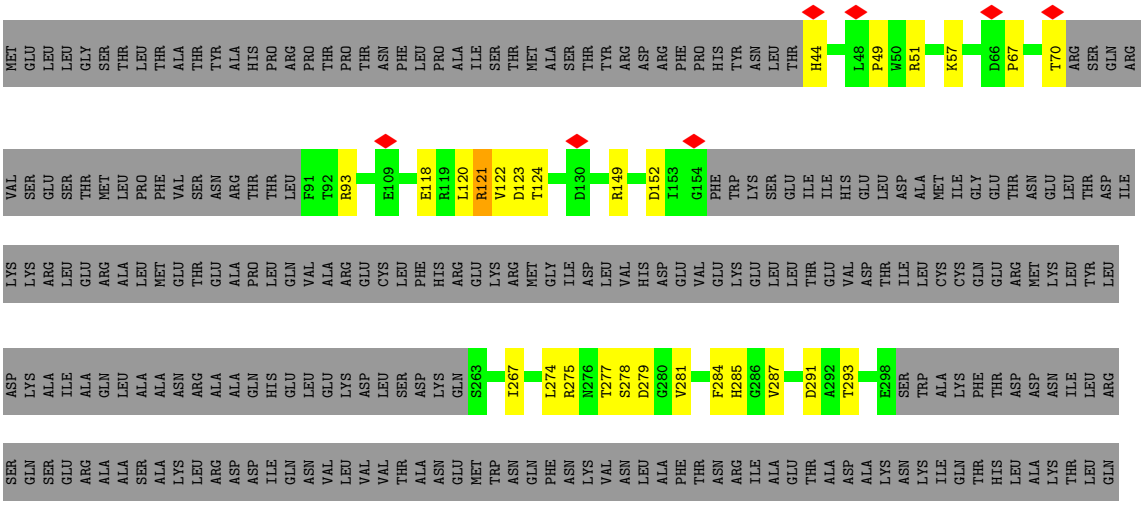
• Molecule 28: Tektin-3

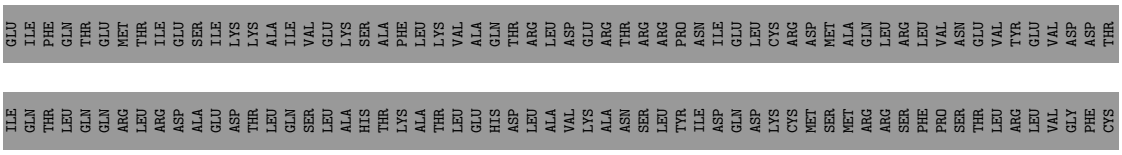
Chain F5:



• Molecule 28: Tektin-3

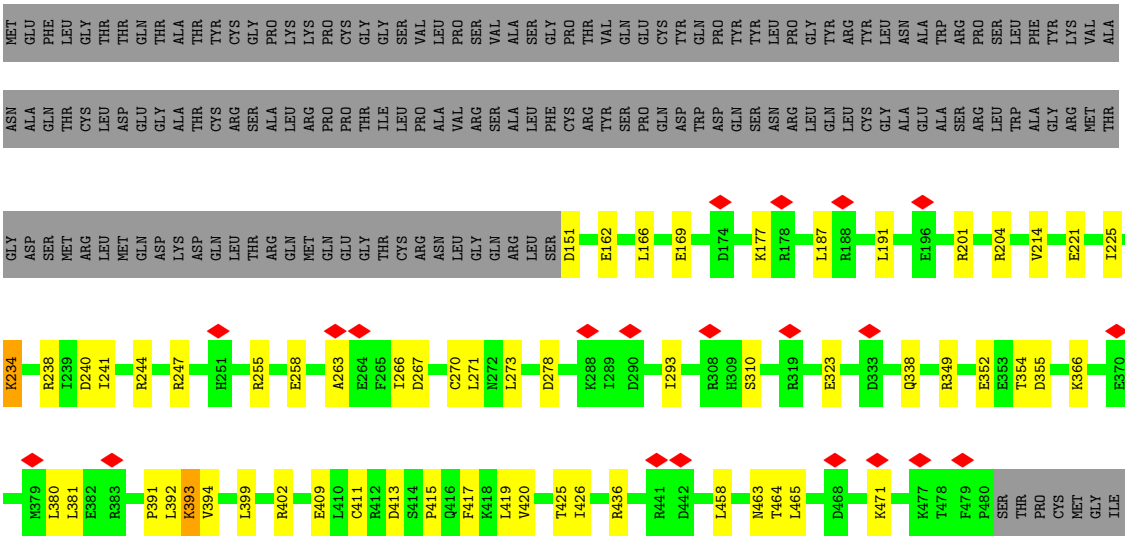
Chain F6:





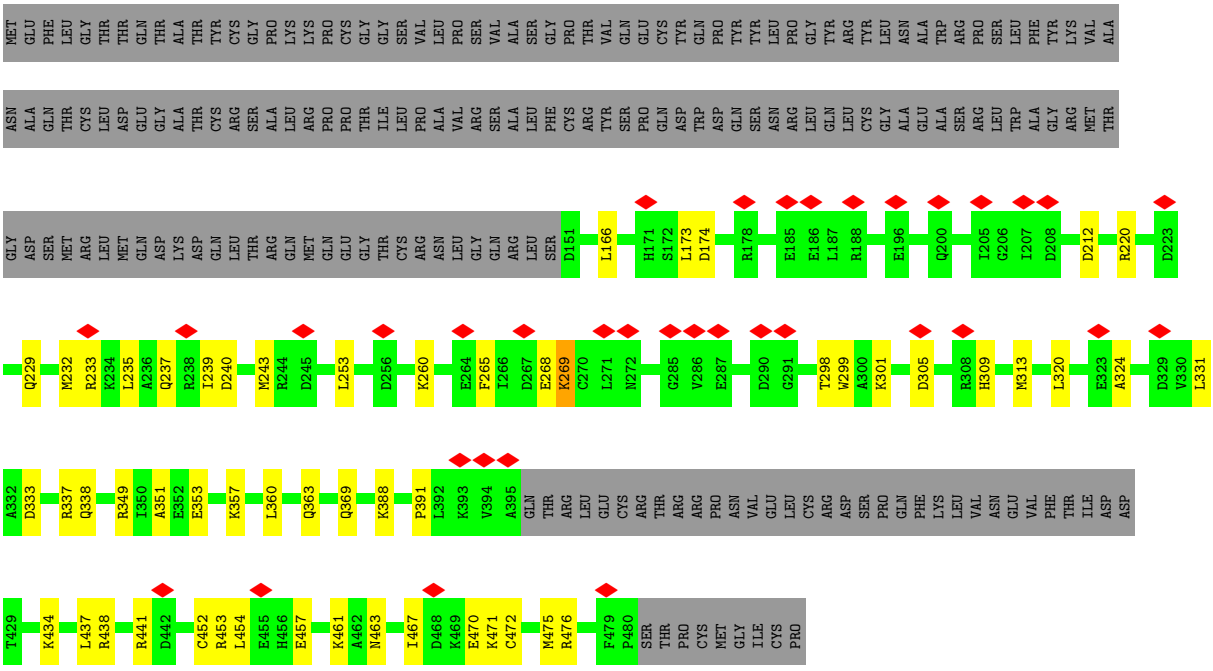
• Molecule 29: Tektin-5

Chain C1:



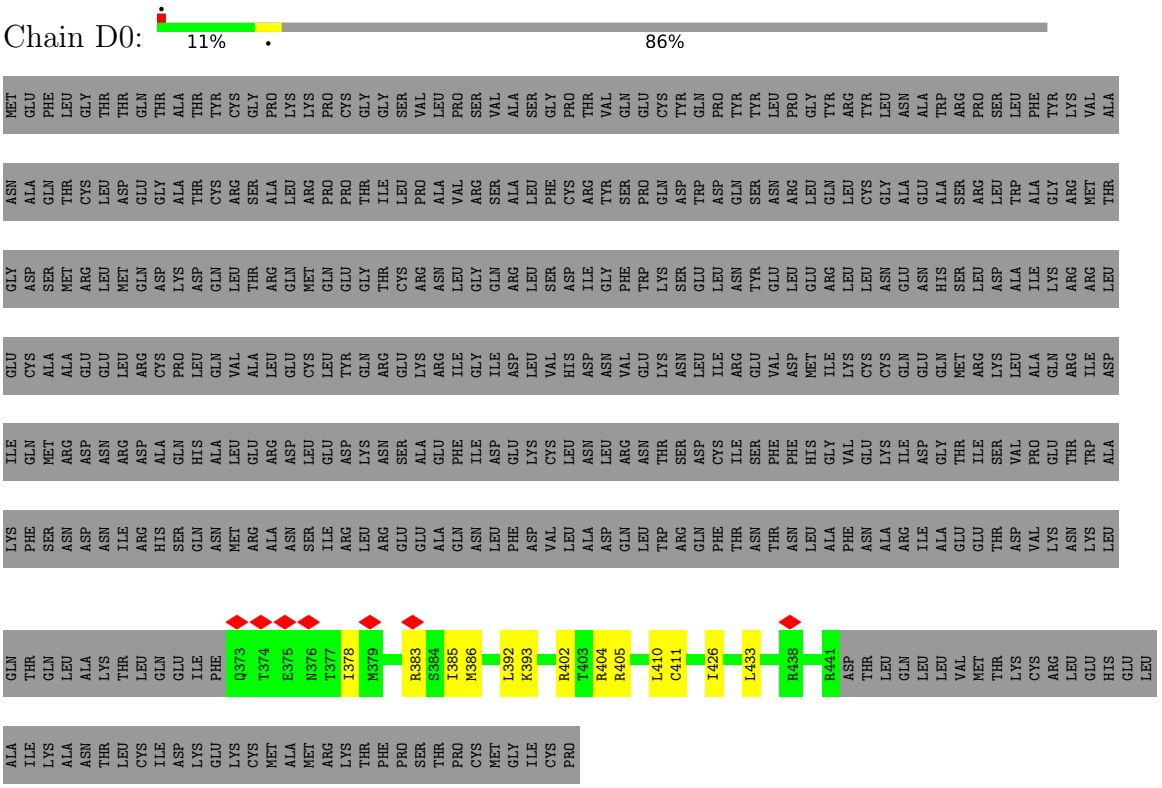
• Molecule 29: Tektin-5

Chain Cz:



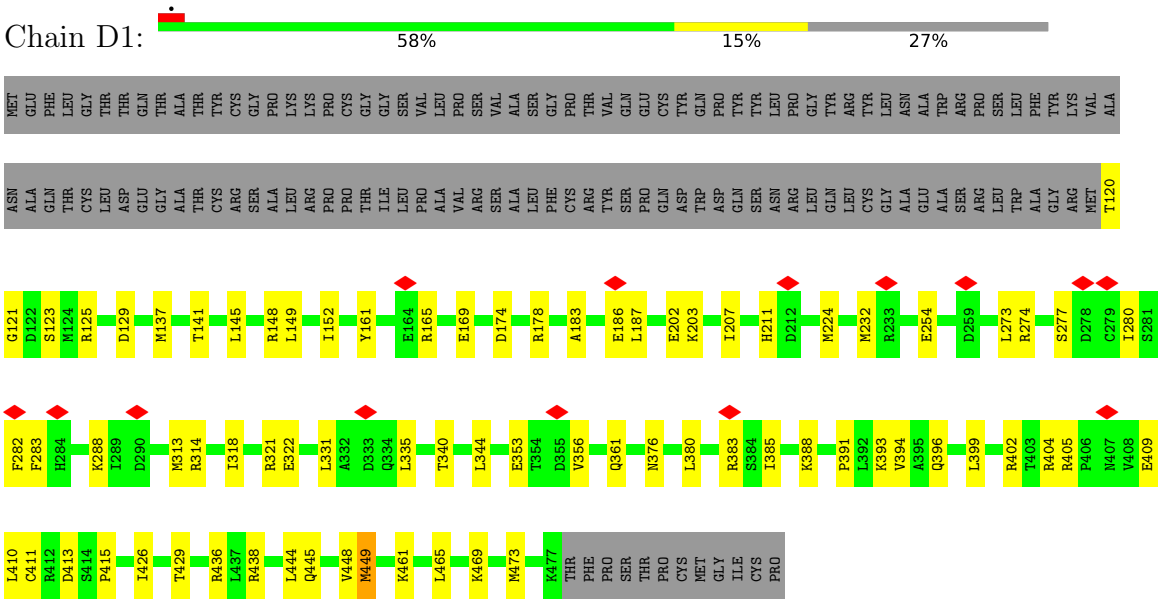
• Molecule 29: Tektin-5

Chain D0:



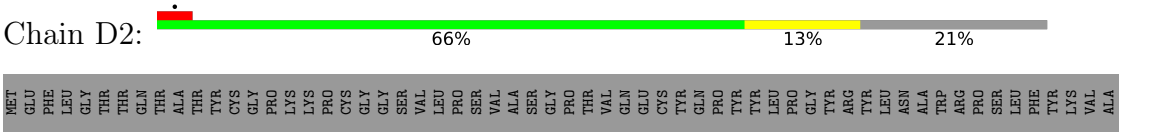
• Molecule 29: Tektin-5

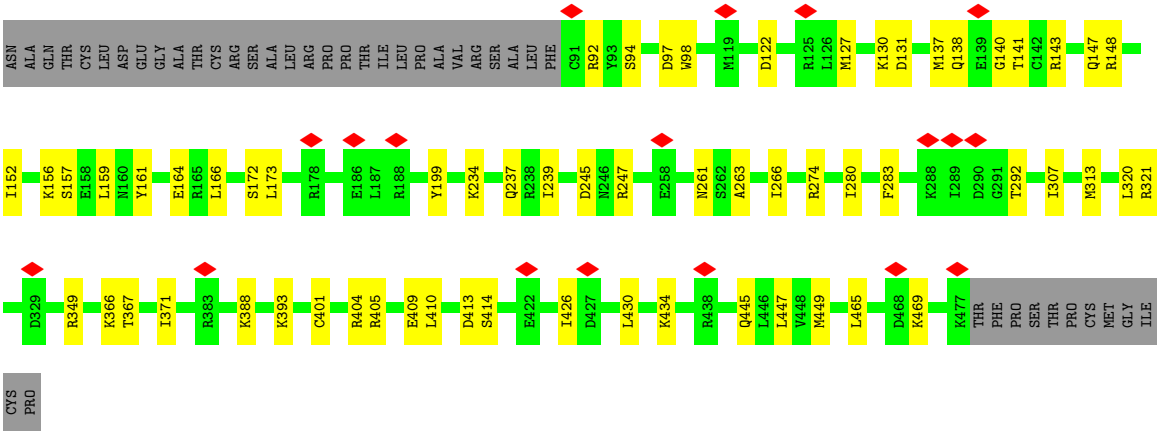
Chain D1:



• Molecule 29: Tektin-5

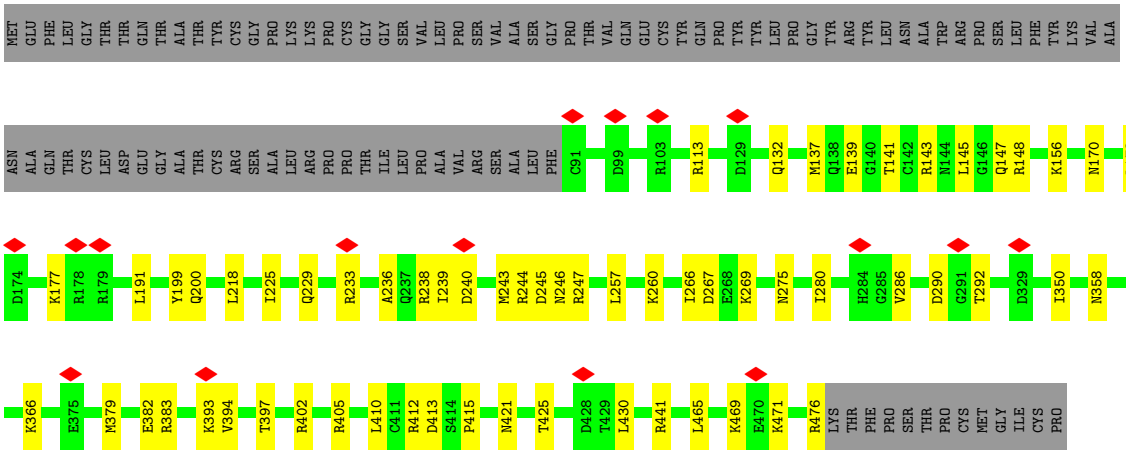
Chain D2:





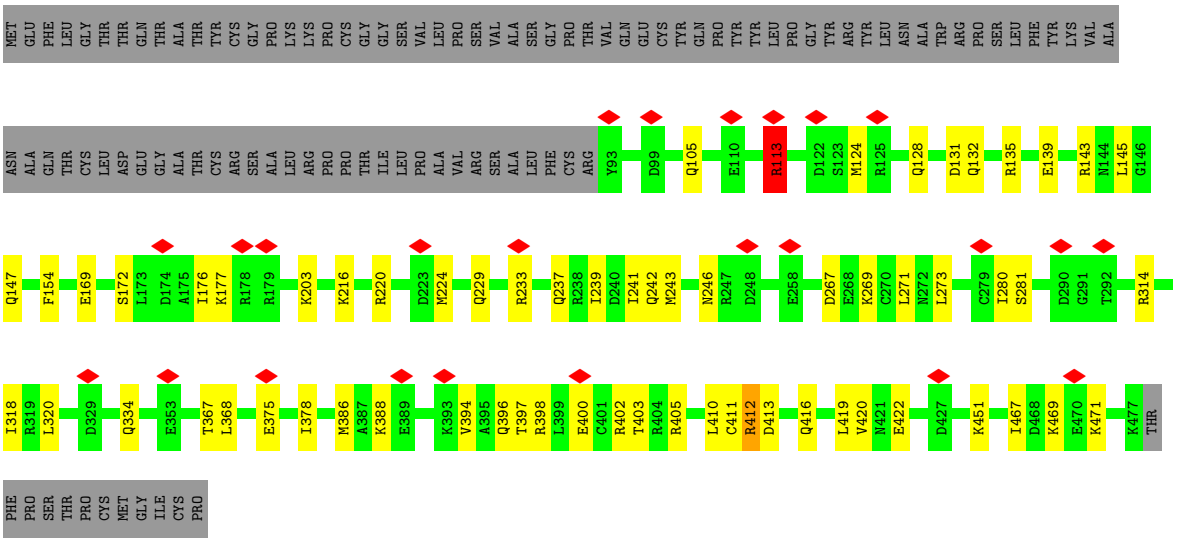
• Molecule 29: Tektin-5

Chain D3:



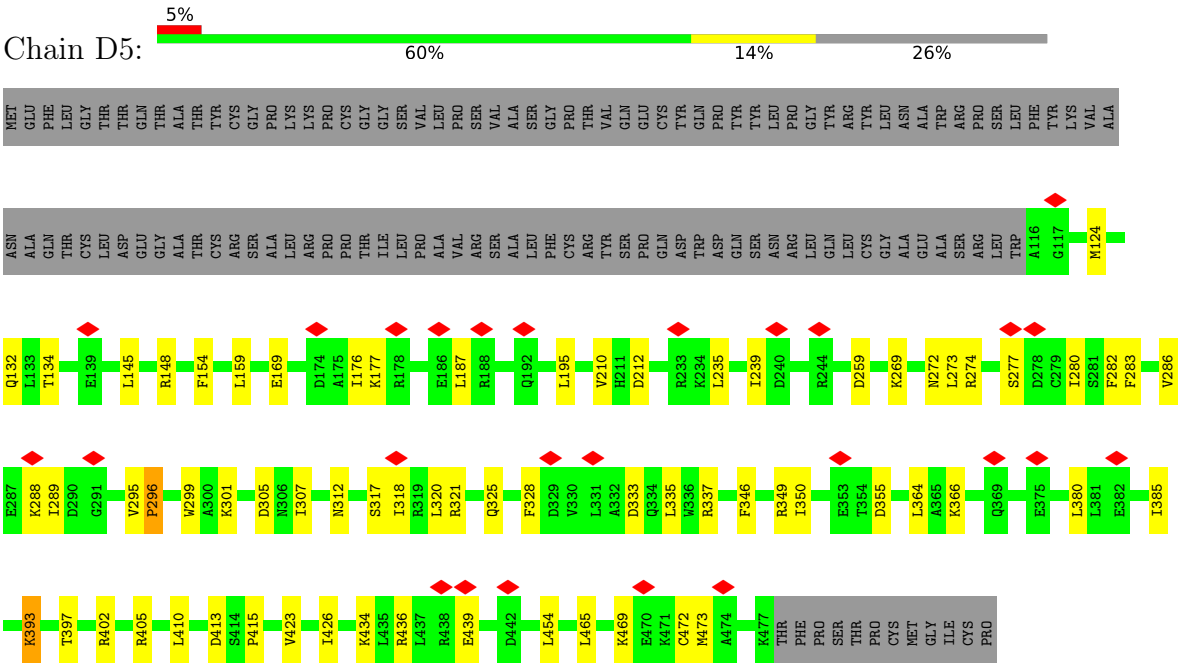
• Molecule 29: Tektin-5

Chain D4:



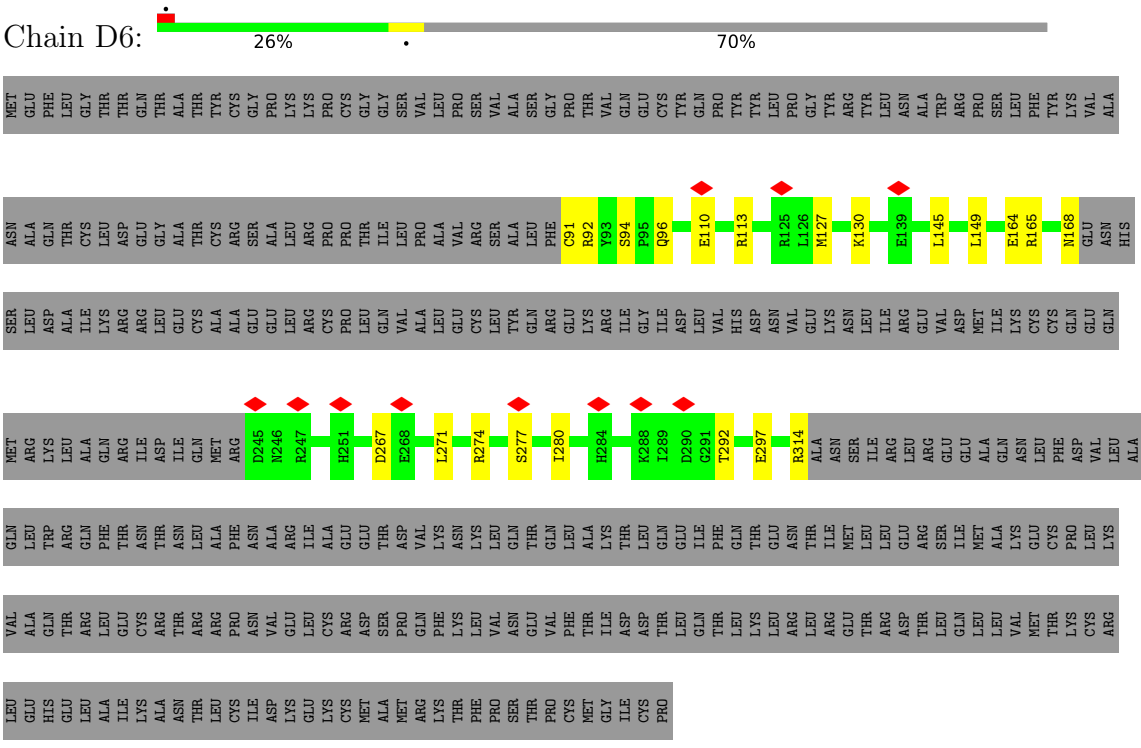
• Molecule 29: Tektin-5

Chain D5:



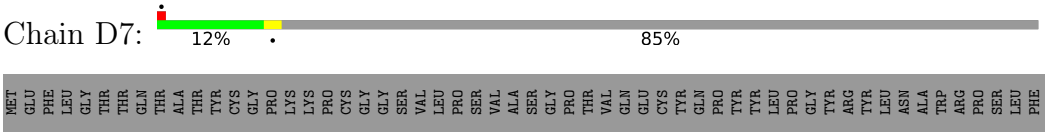
• Molecule 29: Tektin-5

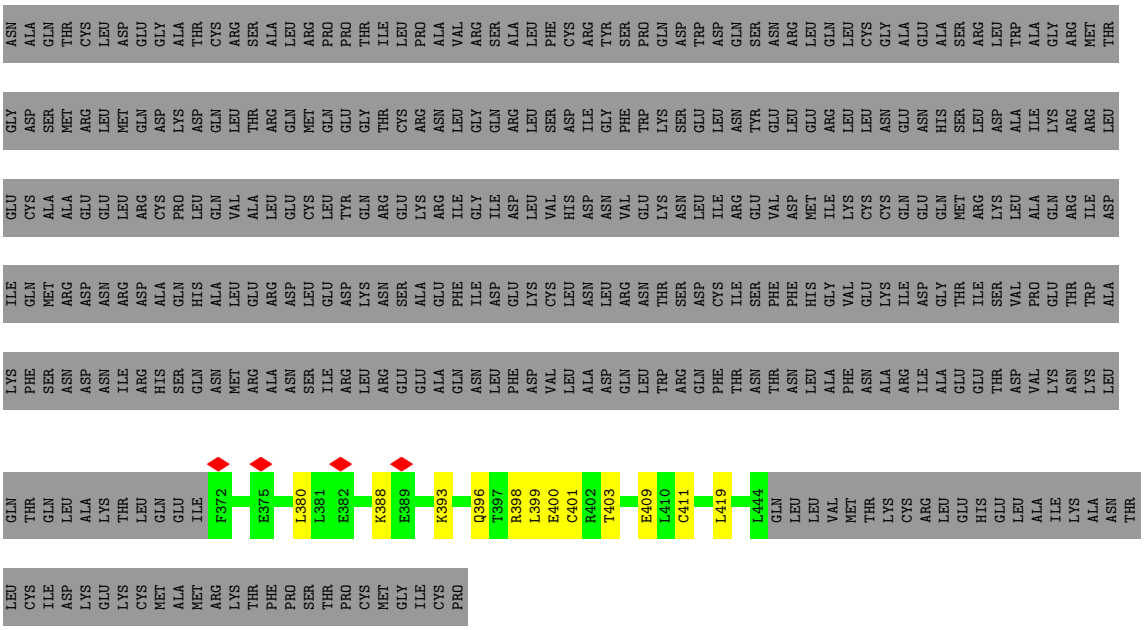
Chain D6:



• Molecule 29: Tektin-5

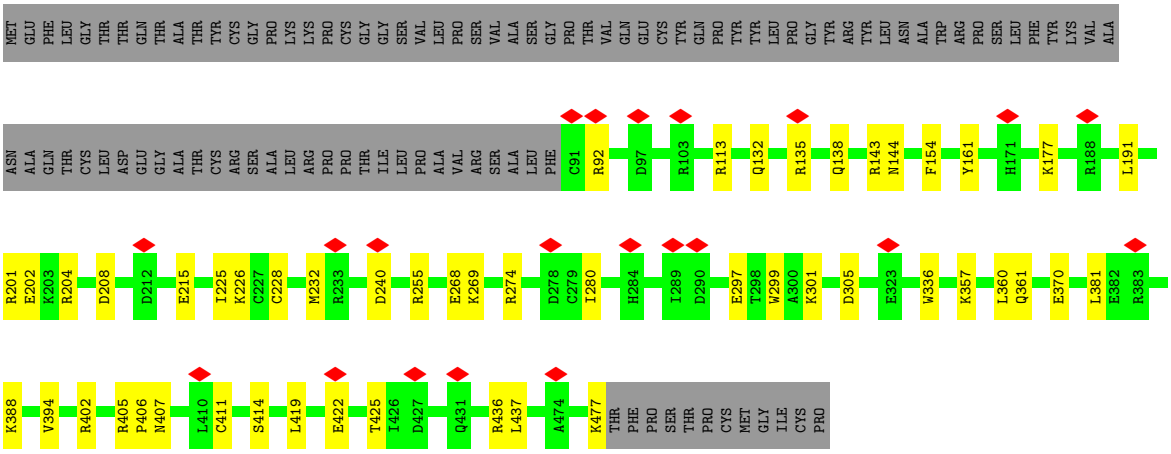
Chain D7:





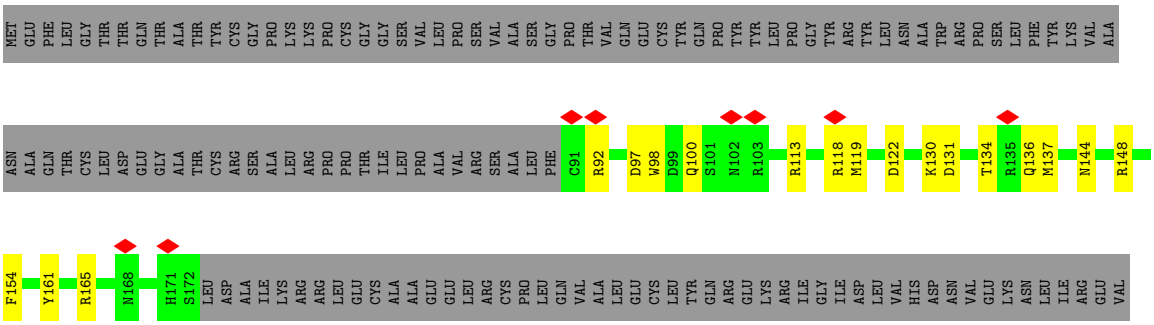
• Molecule 29: Tektin-5

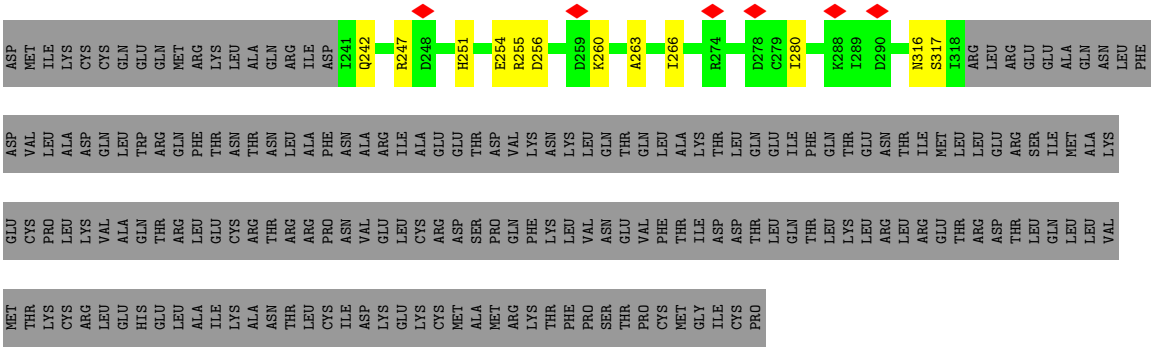
Chain D8:



• Molecule 29: Tektin-5

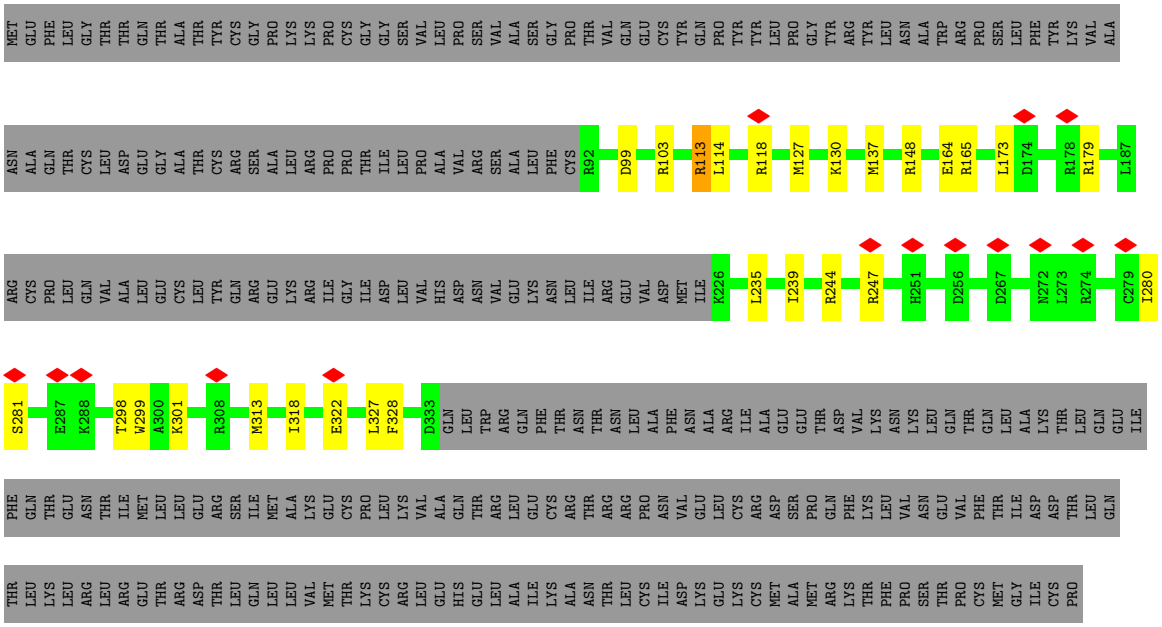
Chain D9:





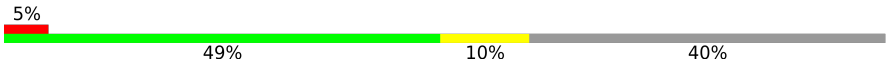
• Molecule 29: Tektin-5

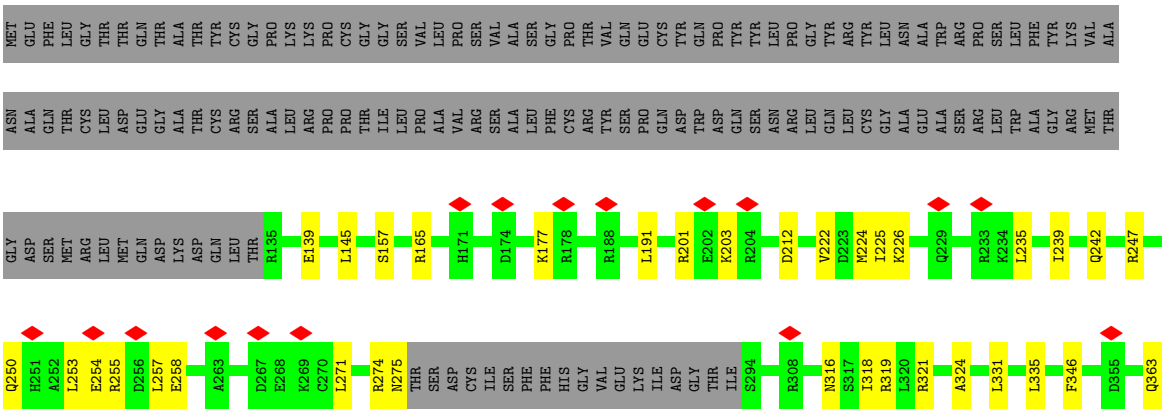
Chain DP:

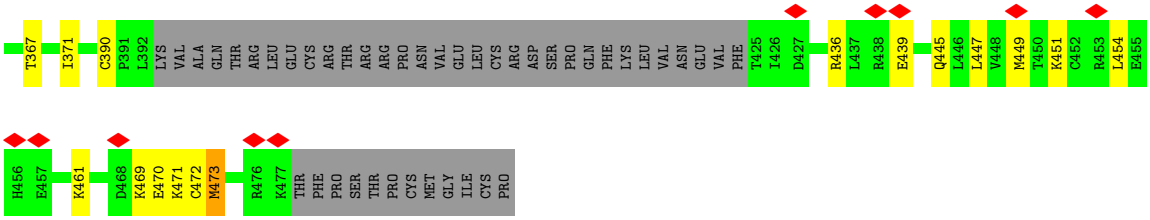


• Molecule 29: Tektin-5

Chain DQ:

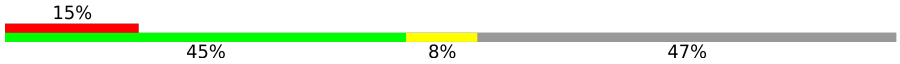


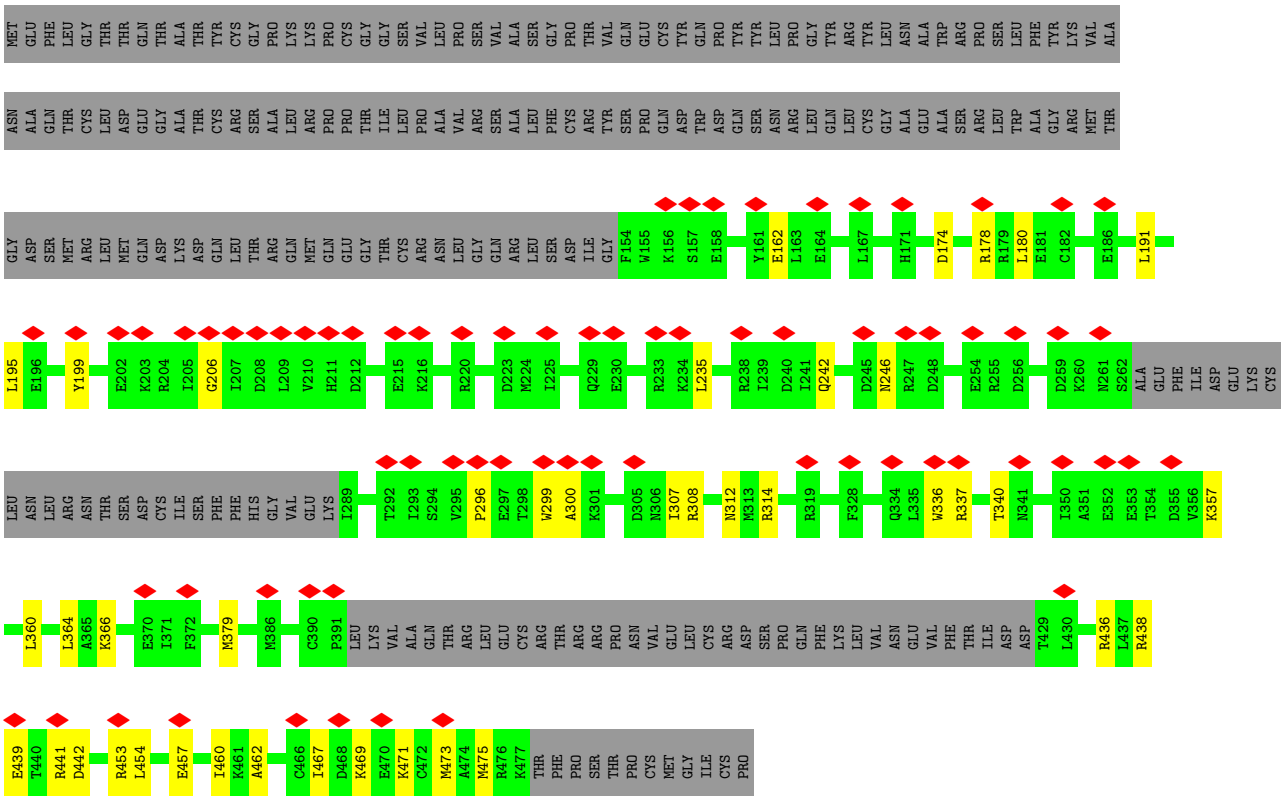




• Molecule 29: Tektin-5

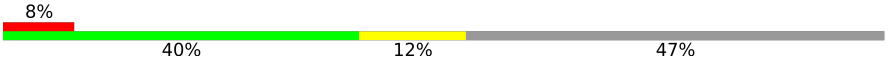
Chain DR:

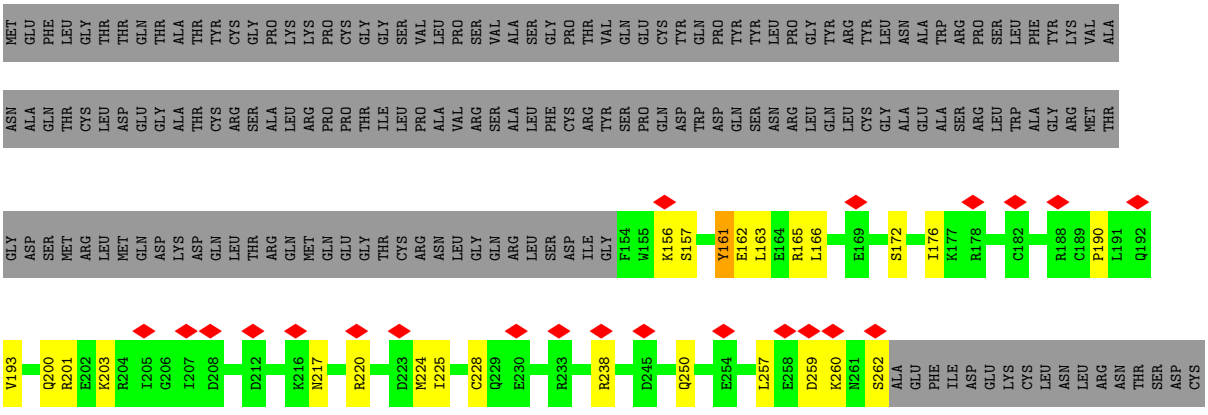


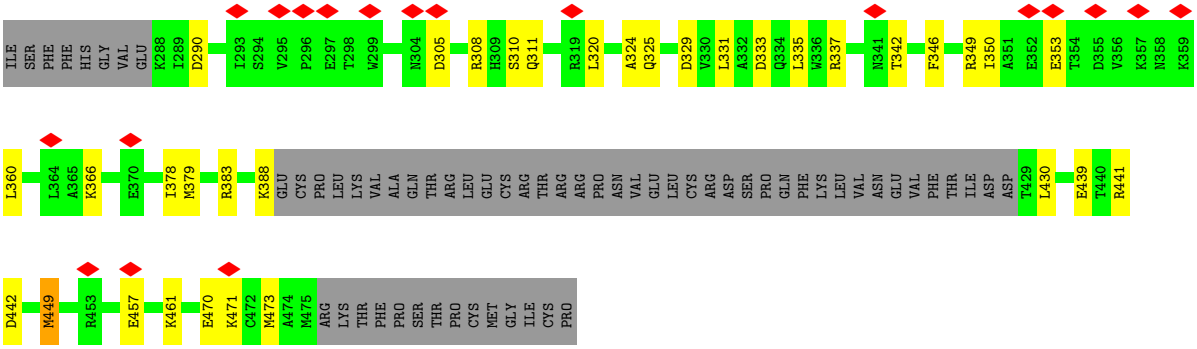


• Molecule 29: Tektin-5

Chain DS:

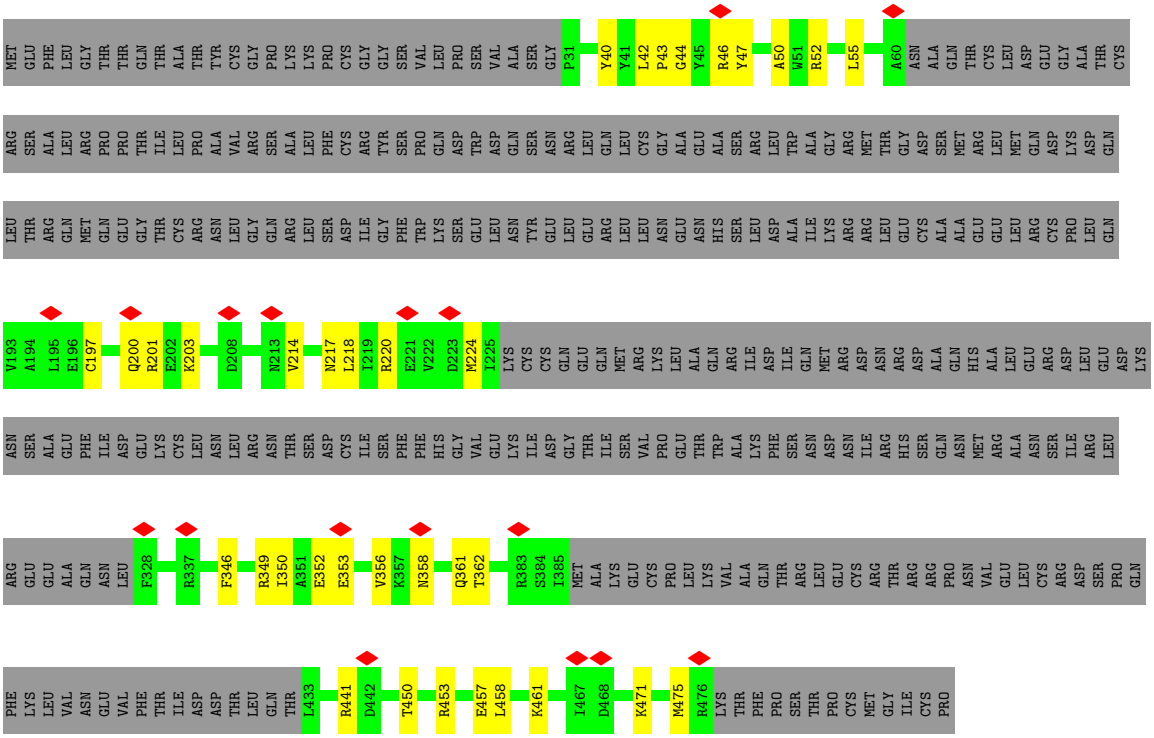






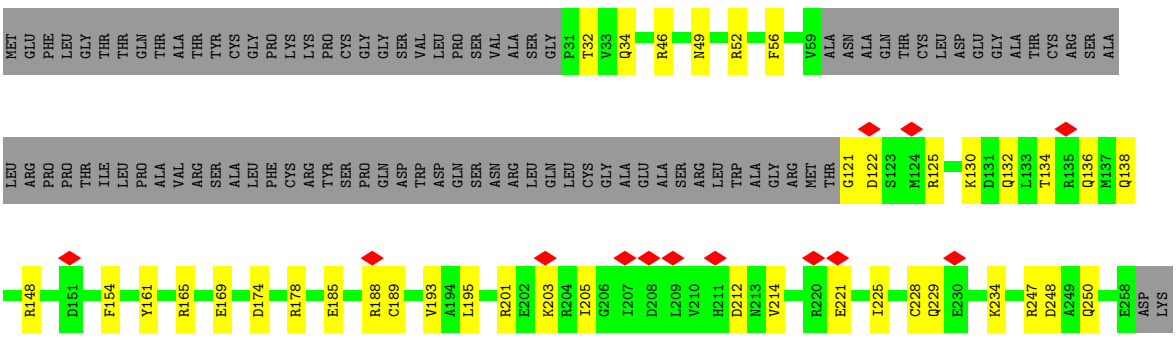
• Molecule 29: Tektin-5

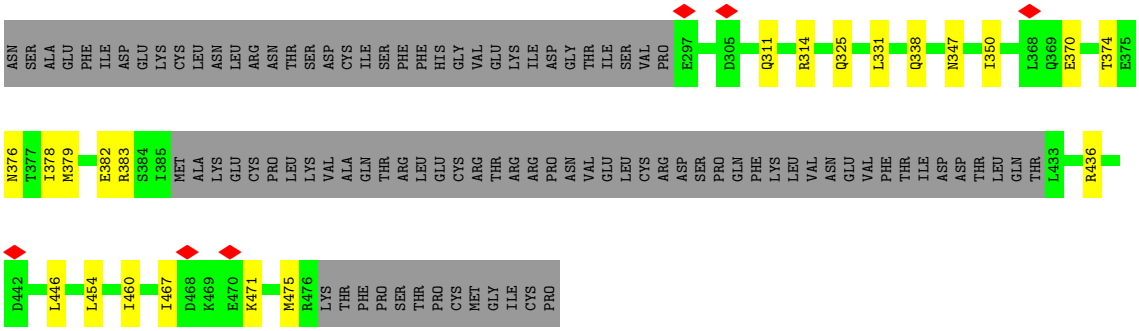
Chain DT:



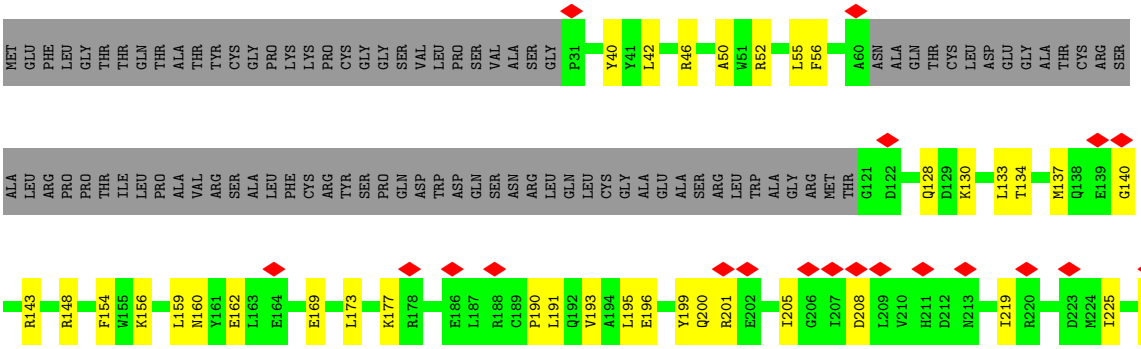
• Molecule 29: Tektin-5

Chain DU:





• Molecule 29: Tektin-5



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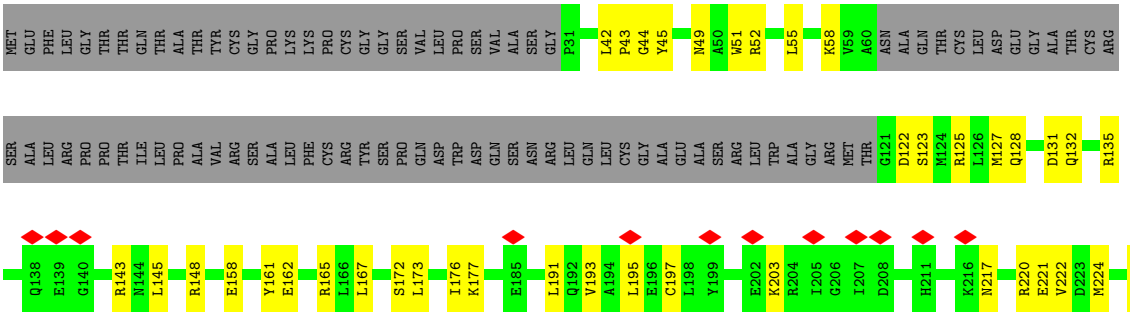
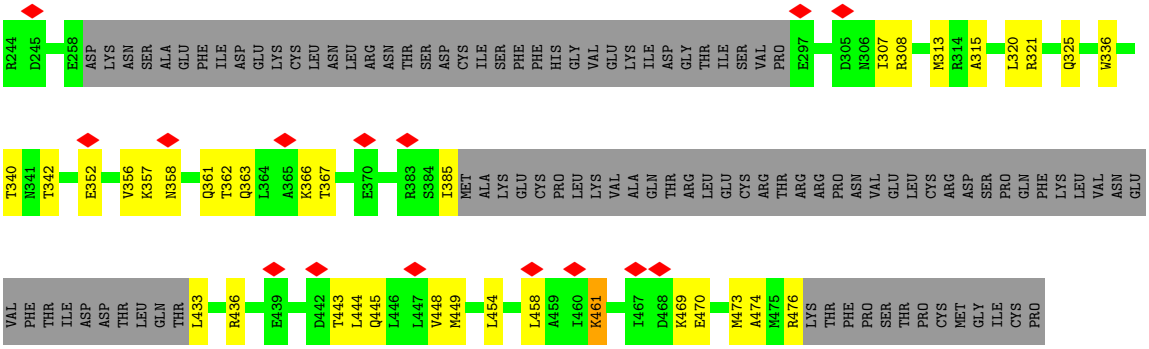
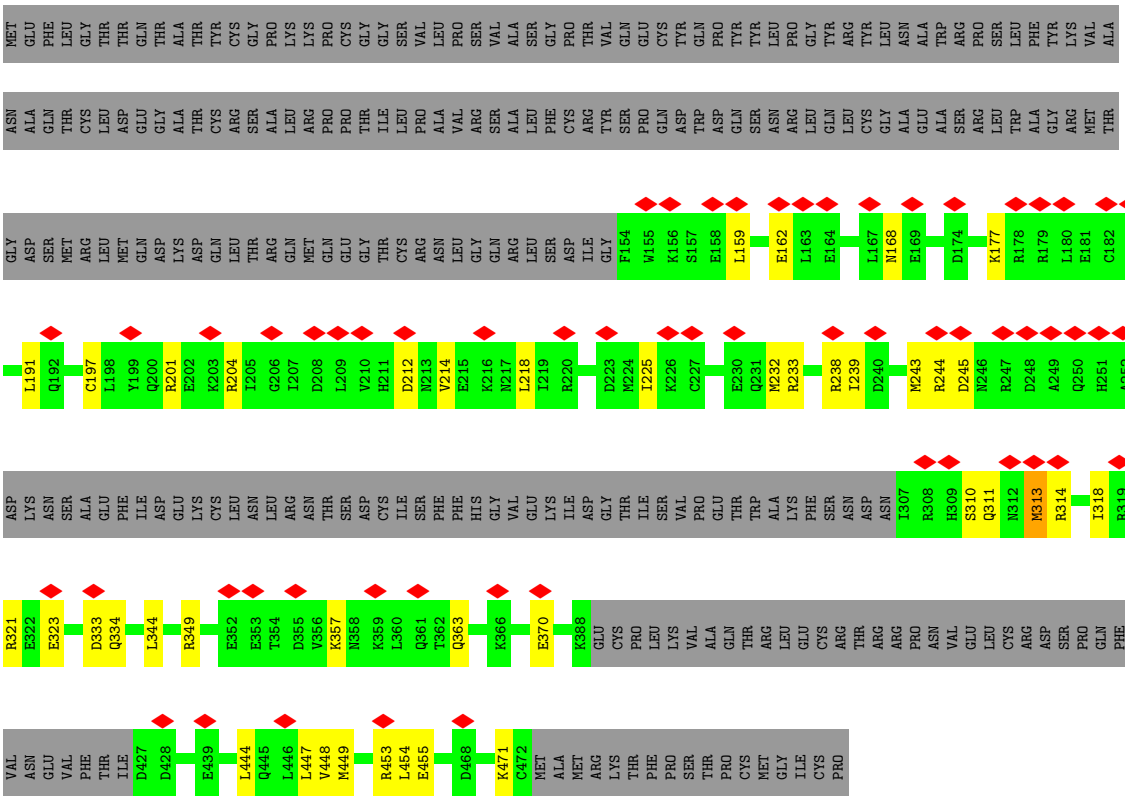




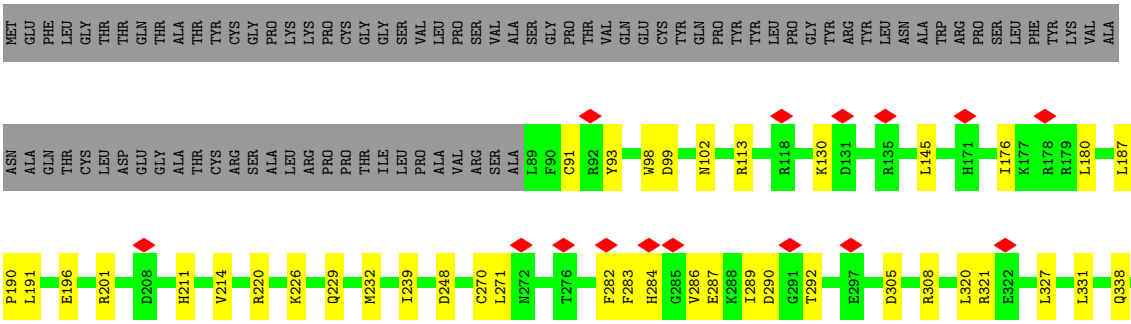
• Molecule 29: Tektin-5

Chain DX:



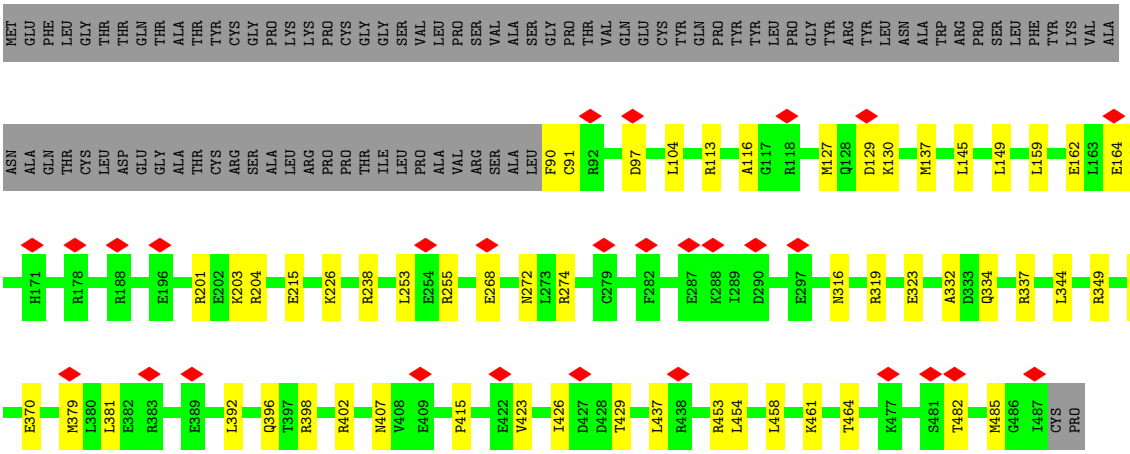
• Molecule 29: Tektin-5

Chain EA:



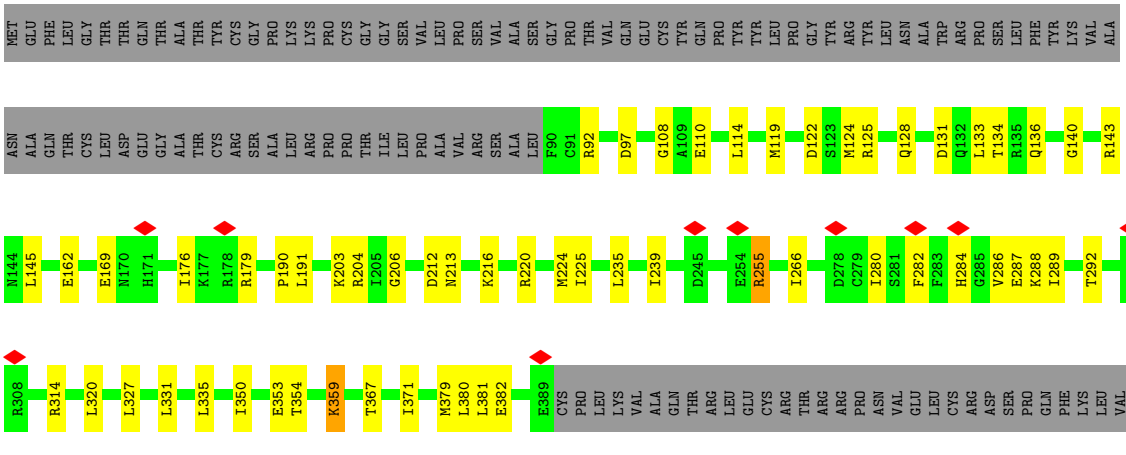
• Molecule 29: Tektin-5

Chain EO:



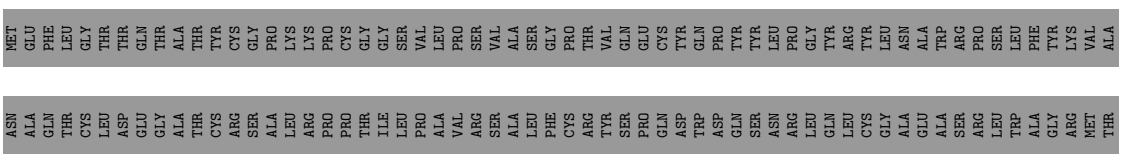
• Molecule 29: Tektin-5

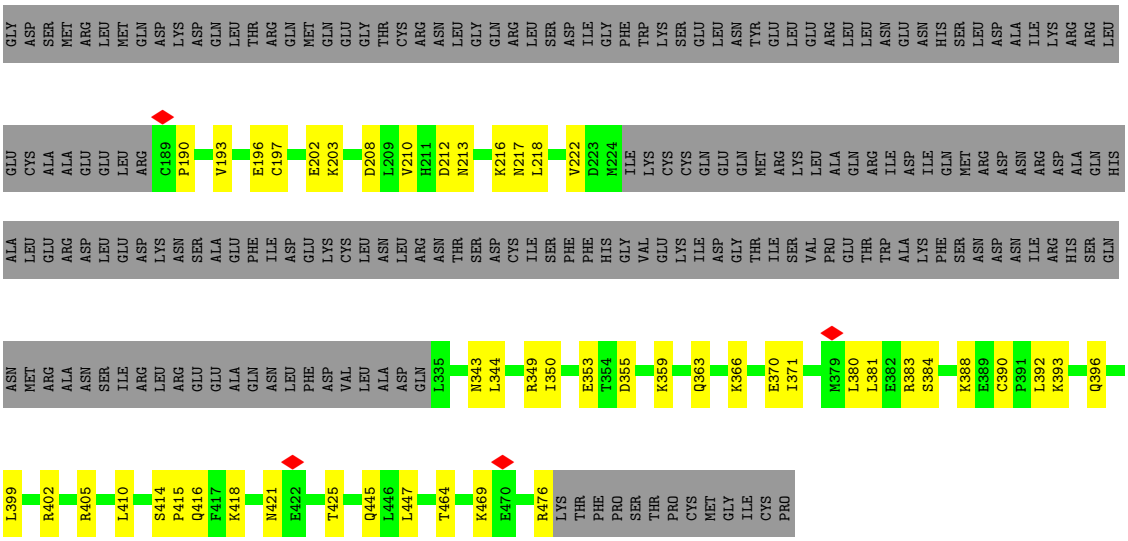
Chain EP:



• Molecule 29: Tektin-5

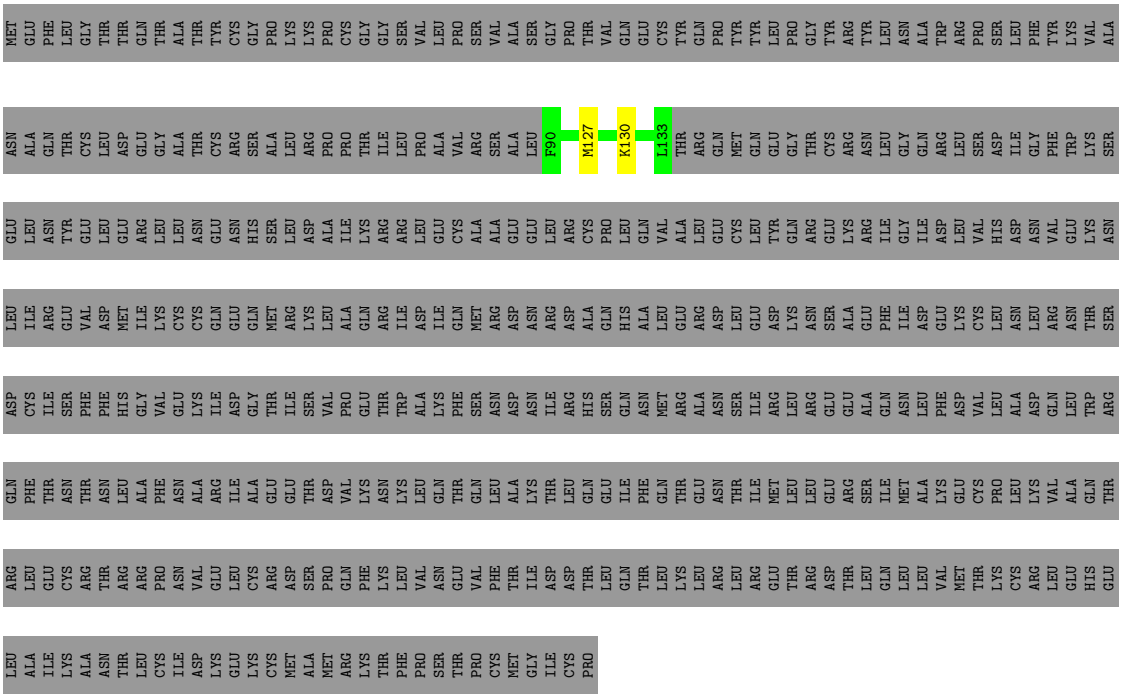
Chain EQ:





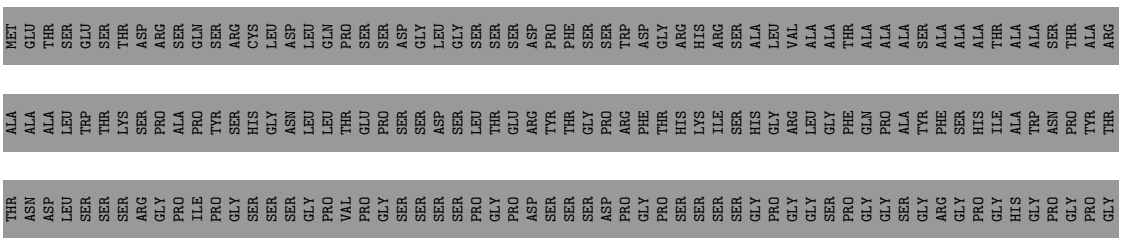
• Molecule 29: Tektin-5

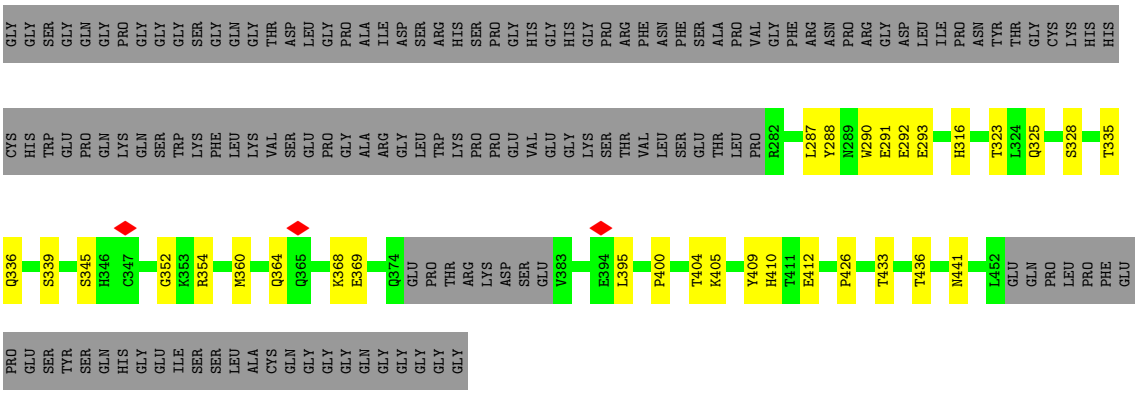
Chain ER:



• Molecule 30: Sperm-associated antigen 8

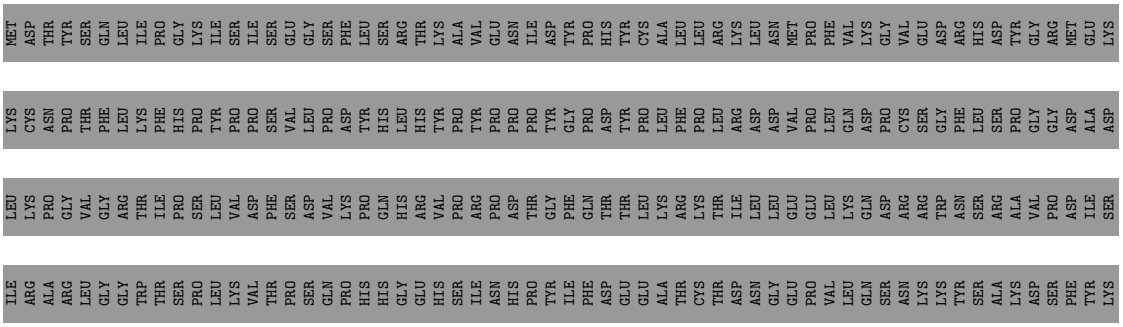
Chain CW:





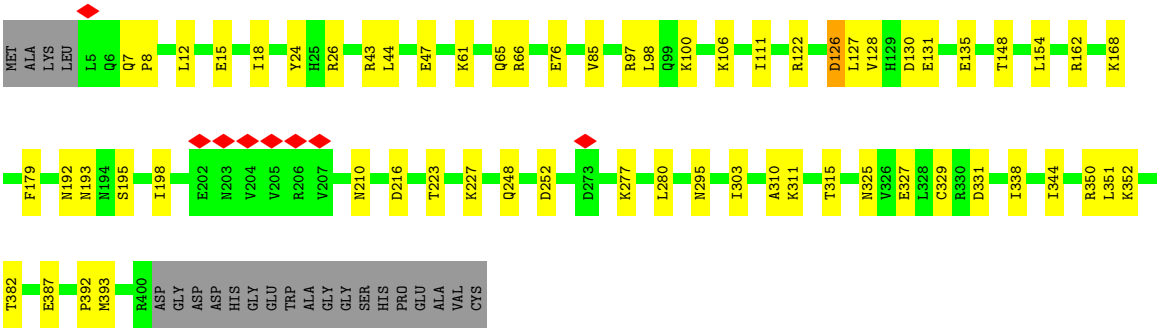
• Molecule 31: Spermatogenesis-associated protein 48

Chain Cl:



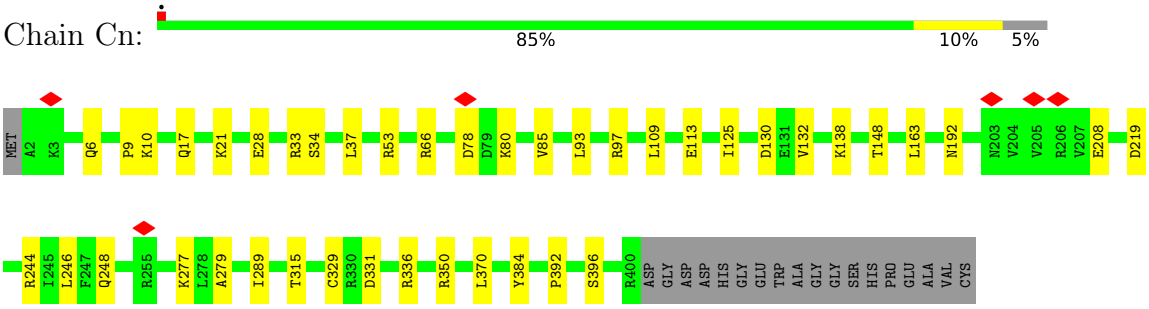
• Molecule 32: Tektin-1

Chain Cm:



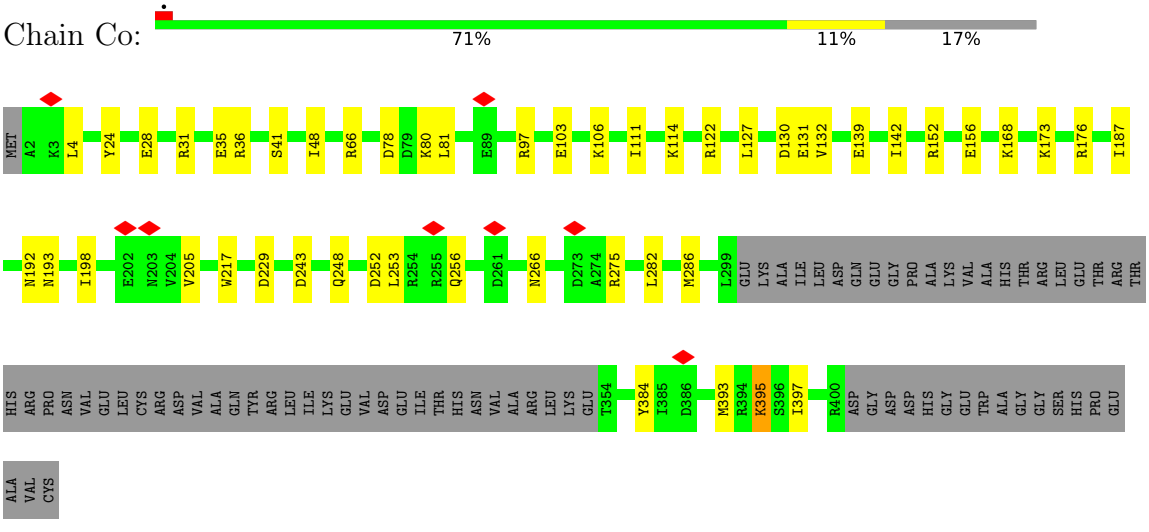
• Molecule 32: Tektin-1

Chain Cn:



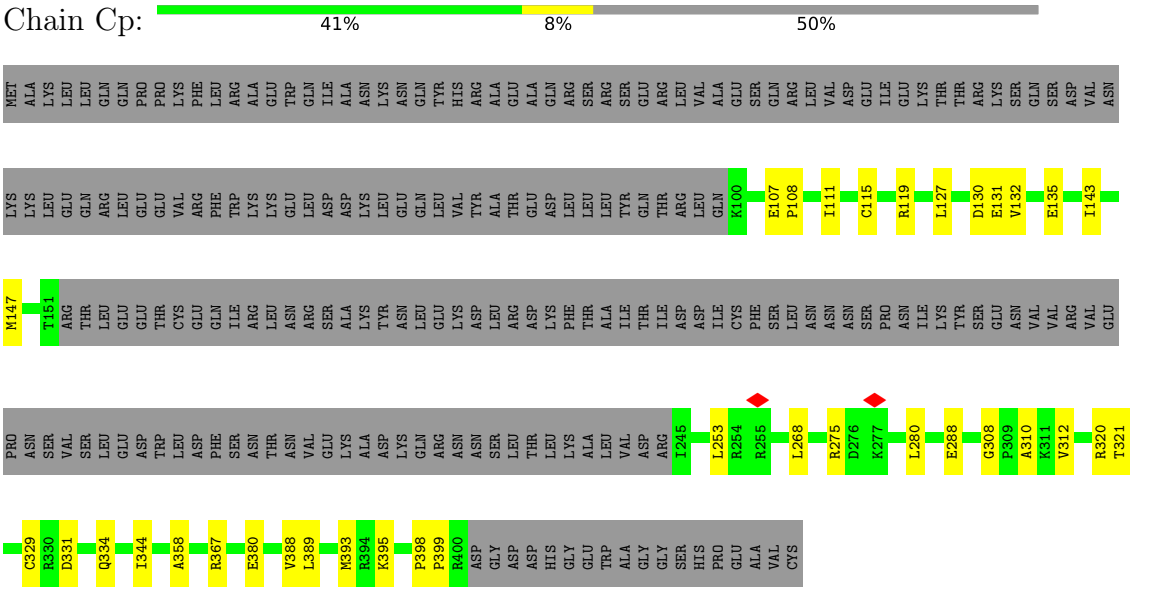
• Molecule 32: Tektin-1

Chain Co:



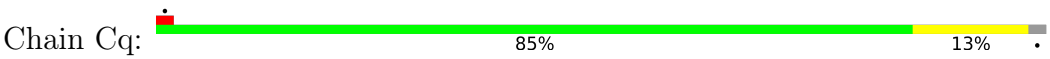
• Molecule 32: Tektin-1

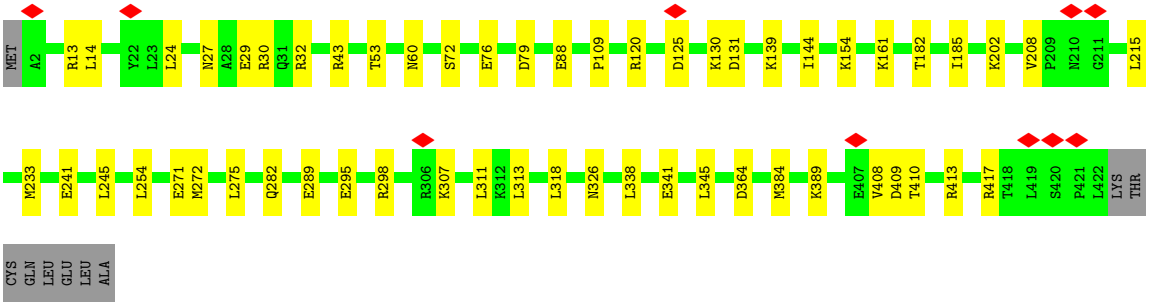
Chain Cp:



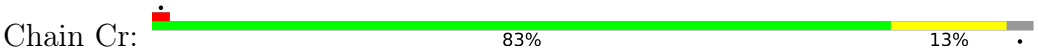
• Molecule 33: Tektin-2

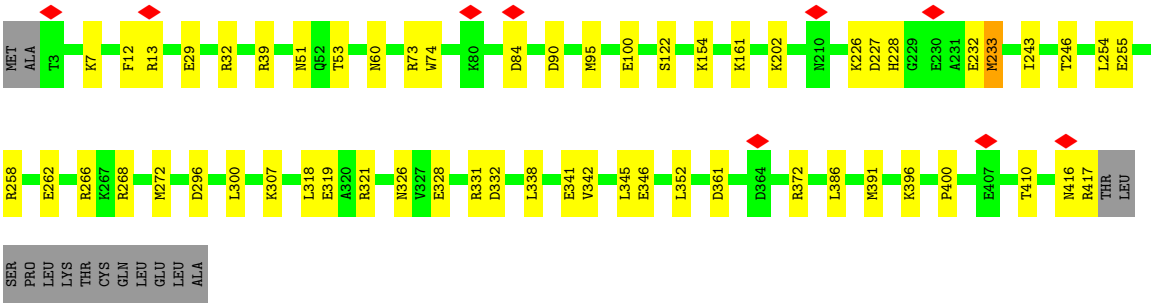
Chain Cq:



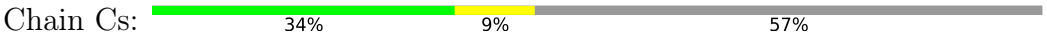


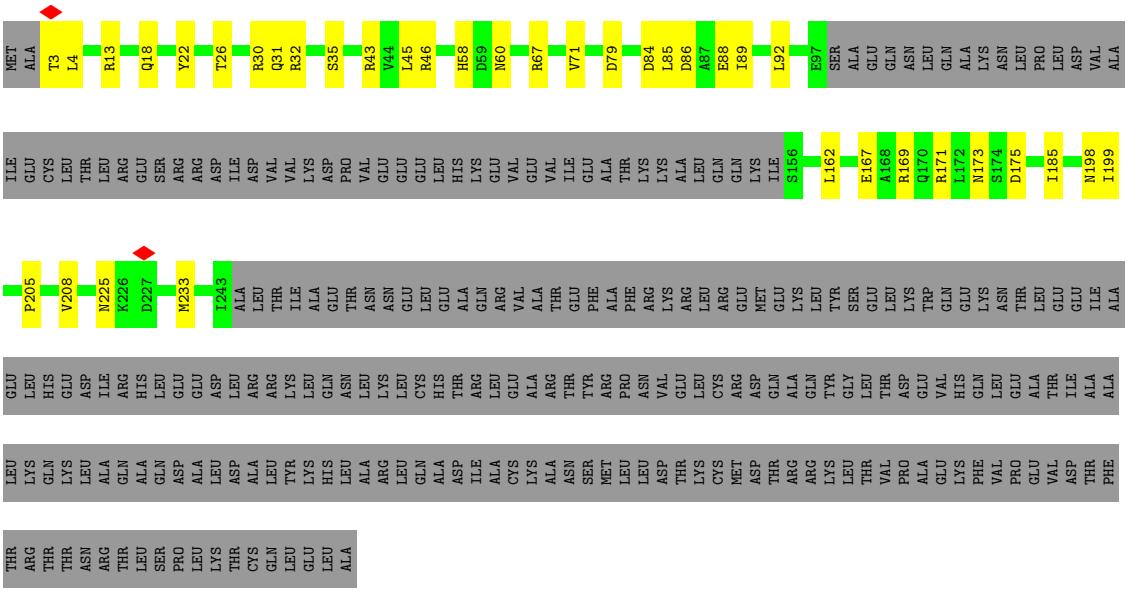
• Molecule 33: Tektin-2



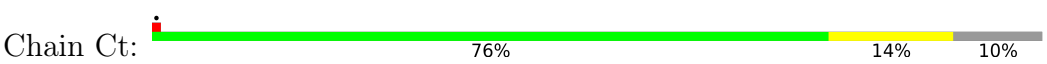


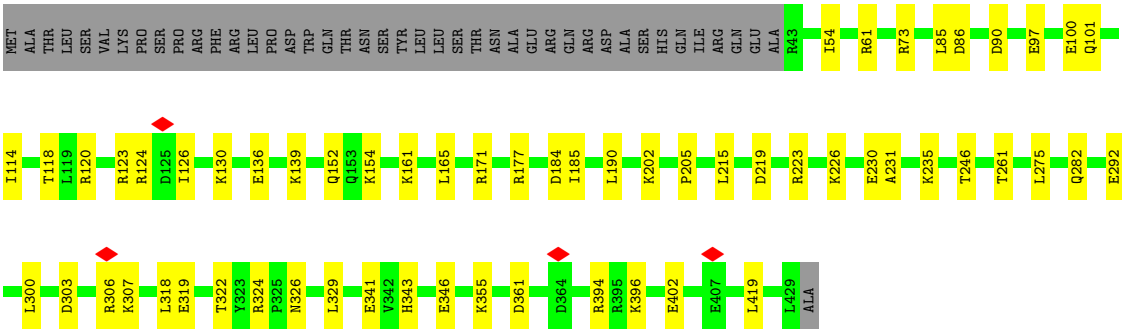
• Molecule 33: Tektin-2





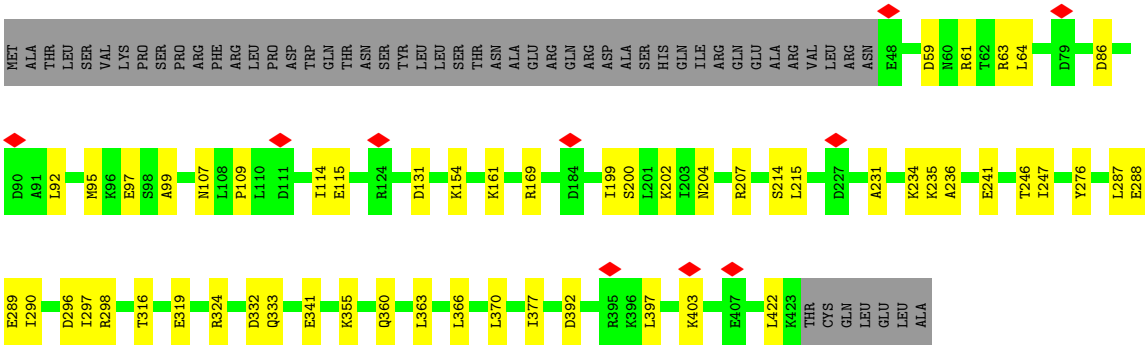
• Molecule 33: Tektin-2





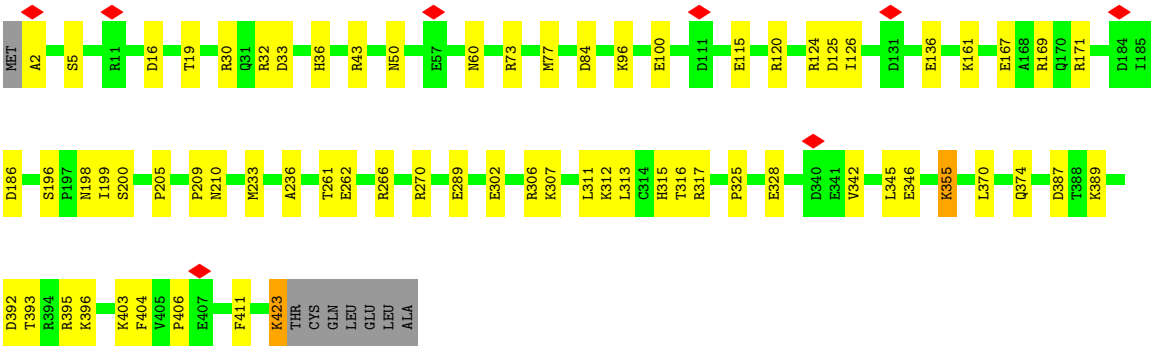
• Molecule 33: Tektin-2

Chain Cu:



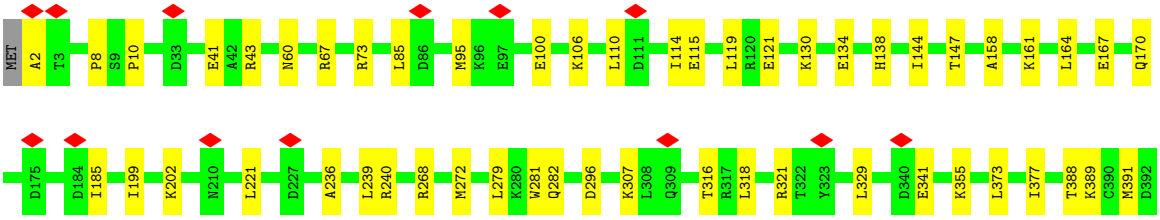
• Molecule 33: Tektin-2

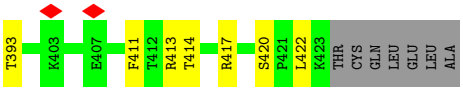
Chain Cv:



• Molecule 33: Tektin-2

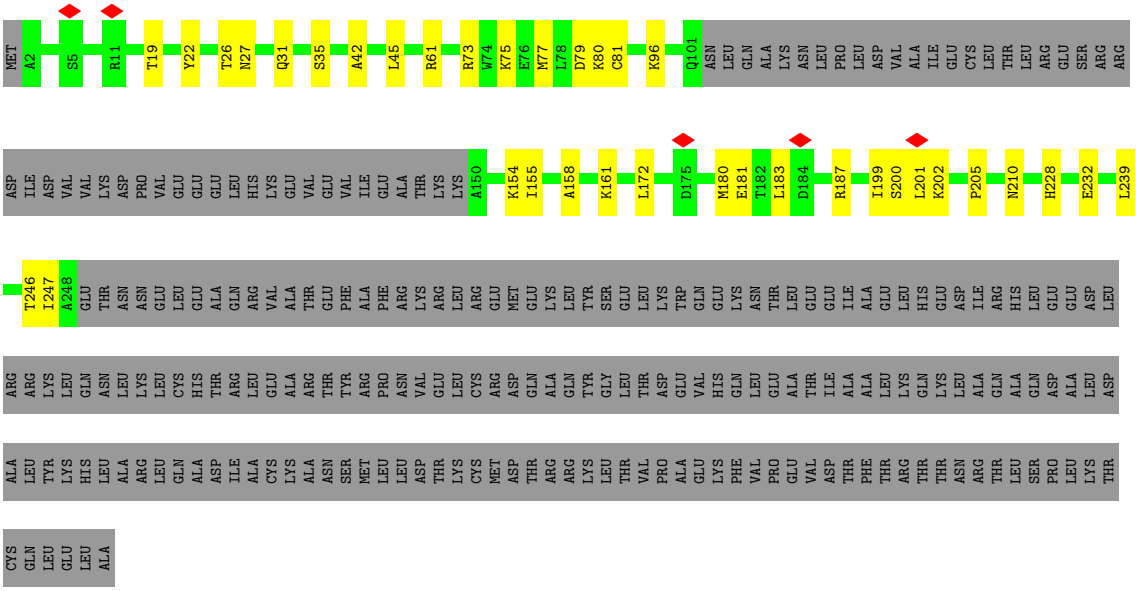
Chain Cw:





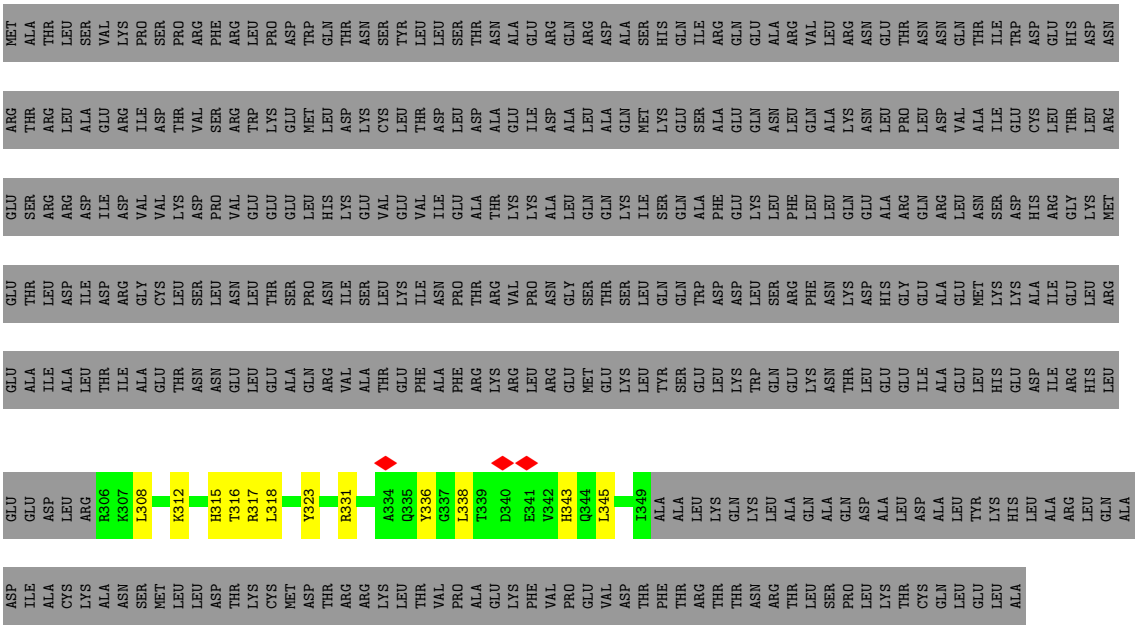
• Molecule 33: Tektin-2

Chain Cx:



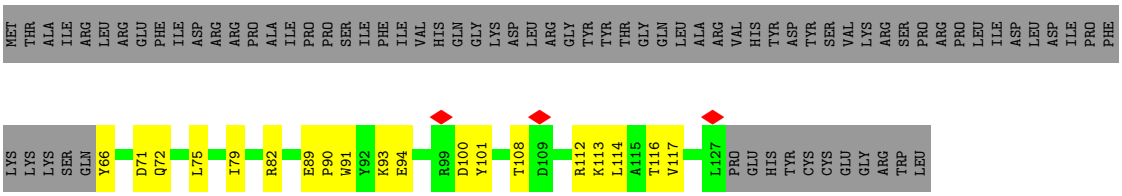
• Molecule 33: Tektin-2

Chain Cy:



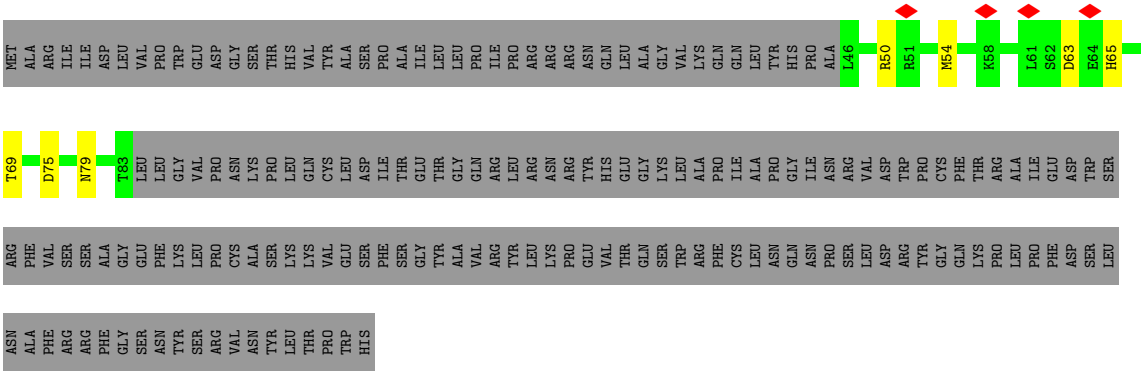
• Molecule 34: Uncharacterized protein C1orf100 homolog

Chain D:



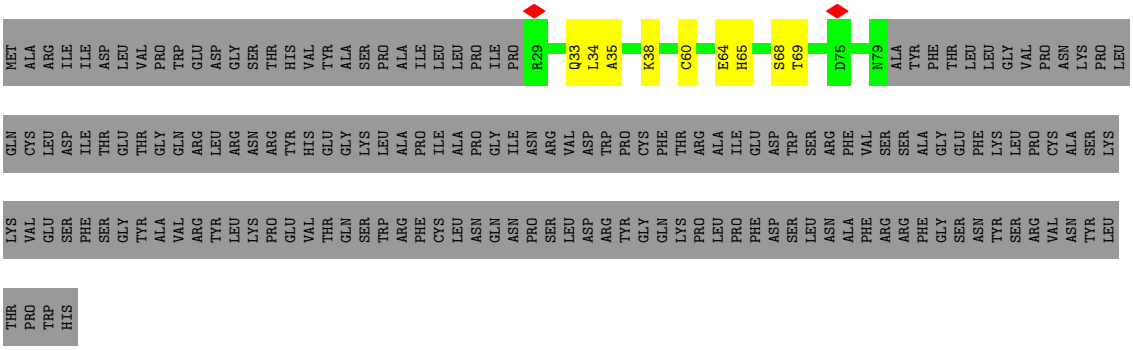
• Molecule 35: TEPP protein

Chain DY:



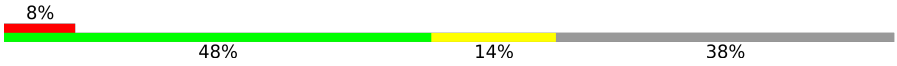
• Molecule 35: TEPP protein

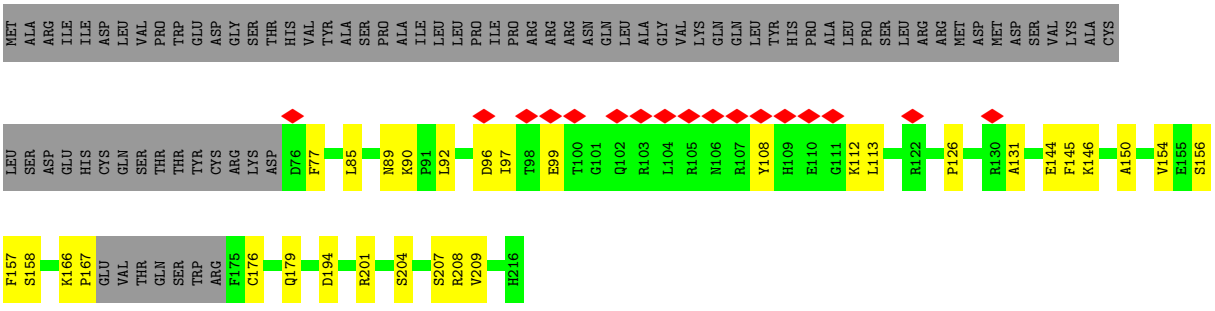
Chain DZ:



• Molecule 35: TEPP protein

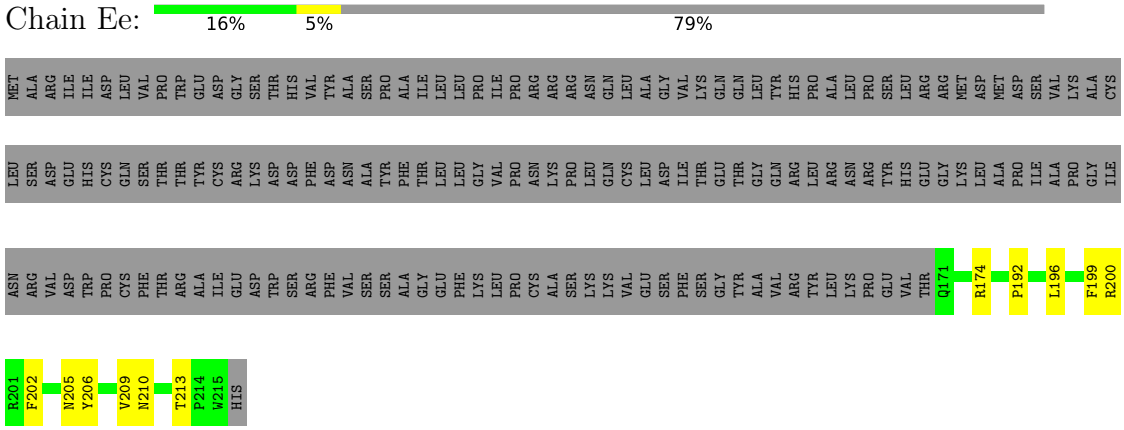
Chain Da:





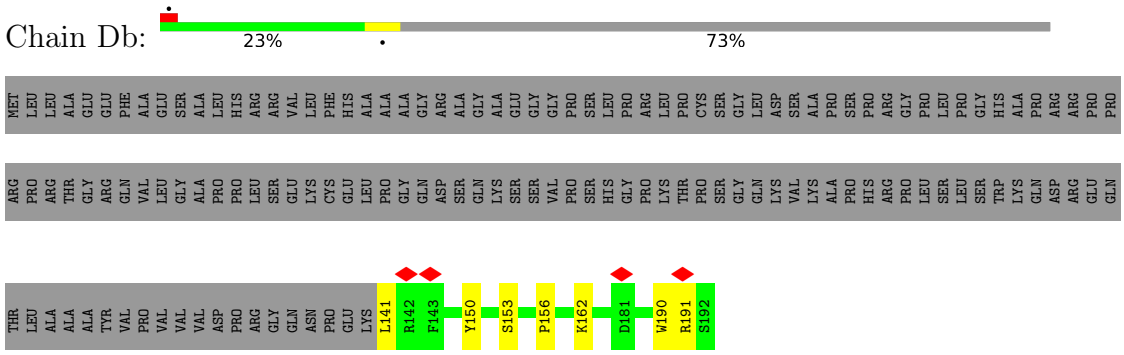
• Molecule 35: TEPP protein

Chain Ee:



• Molecule 36: Uncharacterized protein MGC137036

Chain Db:



• Molecule 36: Uncharacterized protein MGC137036

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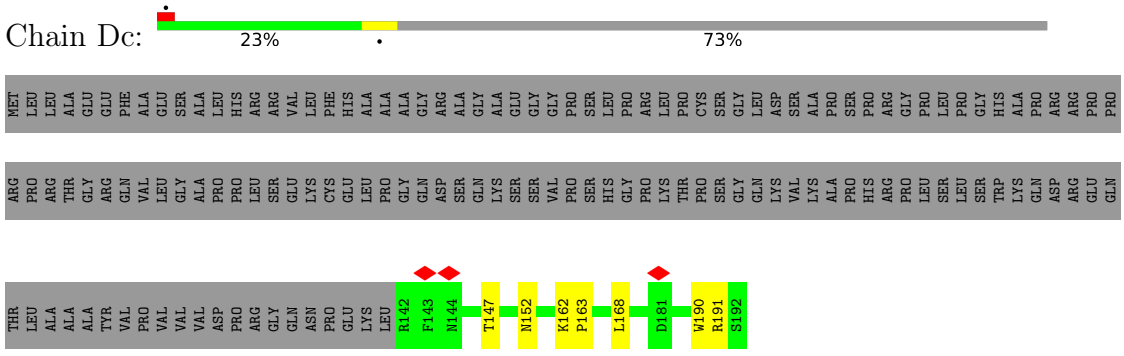

• Molecule 36: Uncharacterized protein MGC137036

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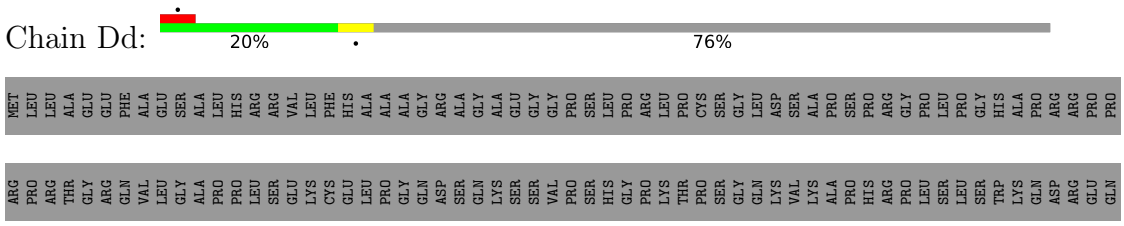
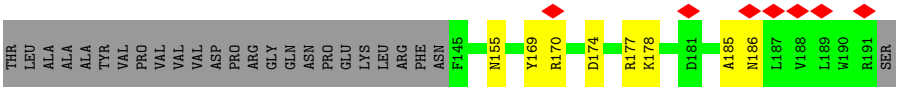
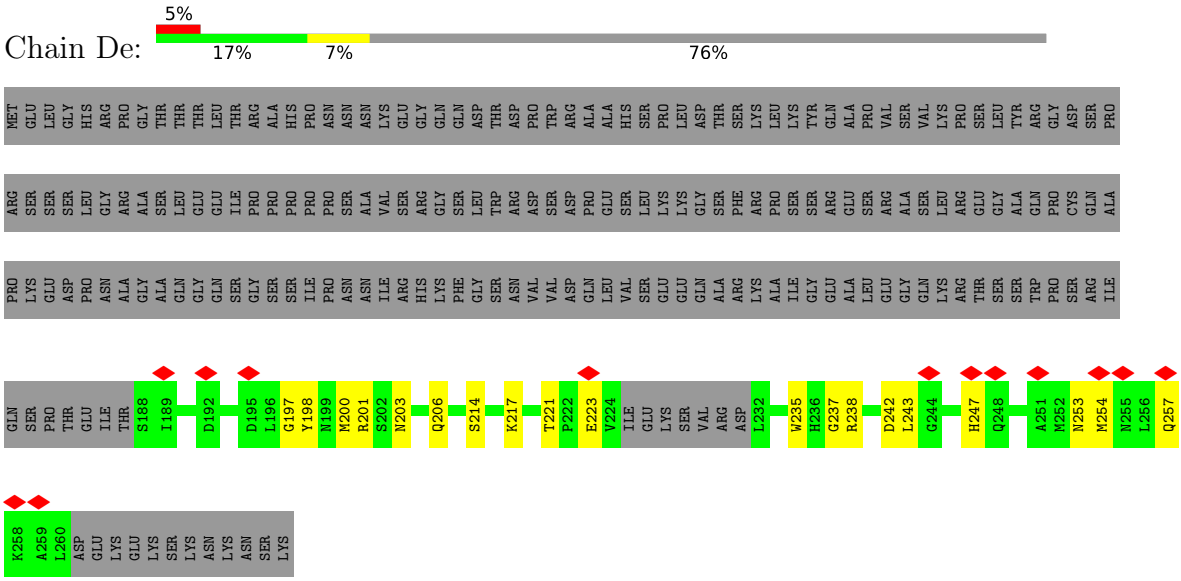




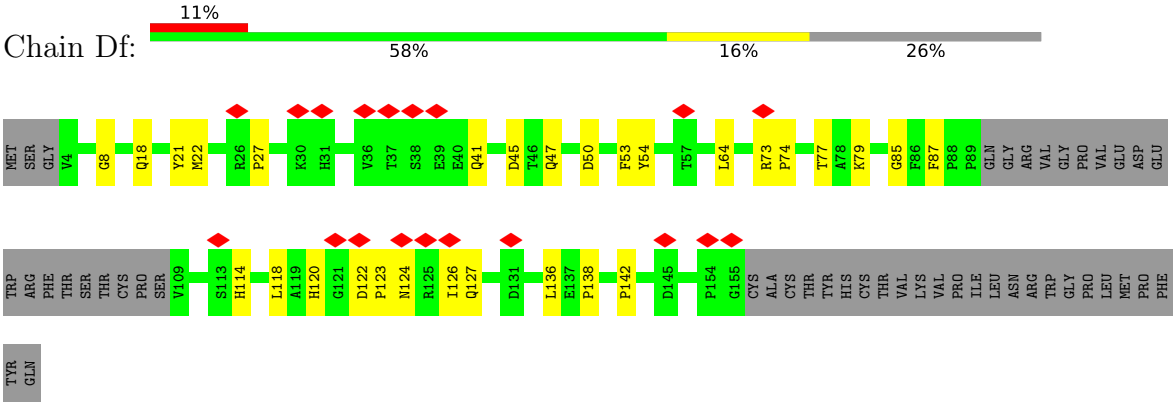
• Molecule 37: Testis expressed 33

Chain De:



• Molecule 38: Testis-expressed sequence 37 protein

Chain Df:



• Molecule 38: Testis-expressed sequence 37 protein

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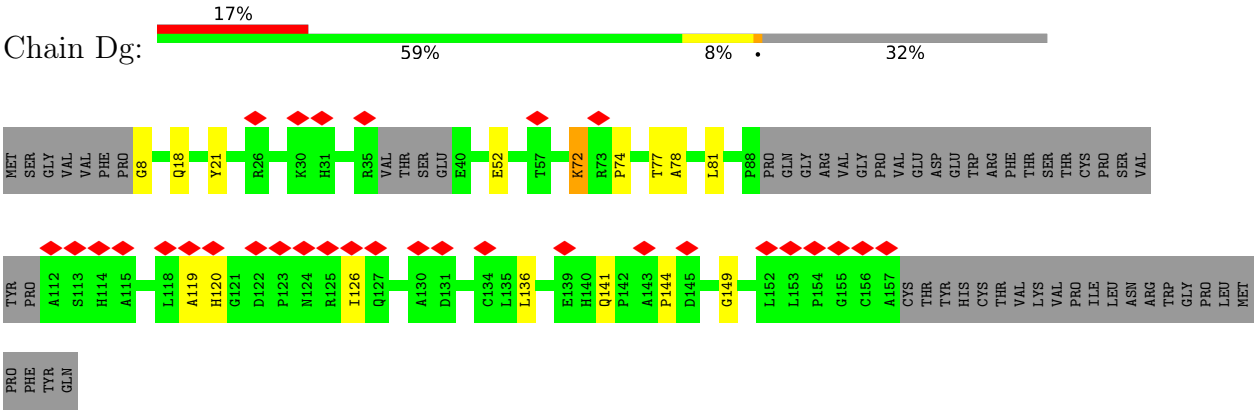

• Molecule 38: Testis-expressed sequence 37 protein

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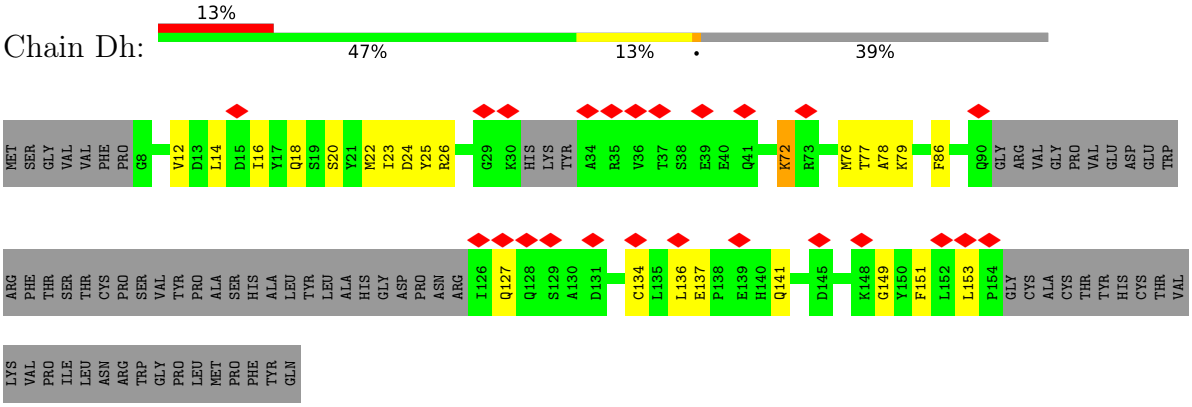
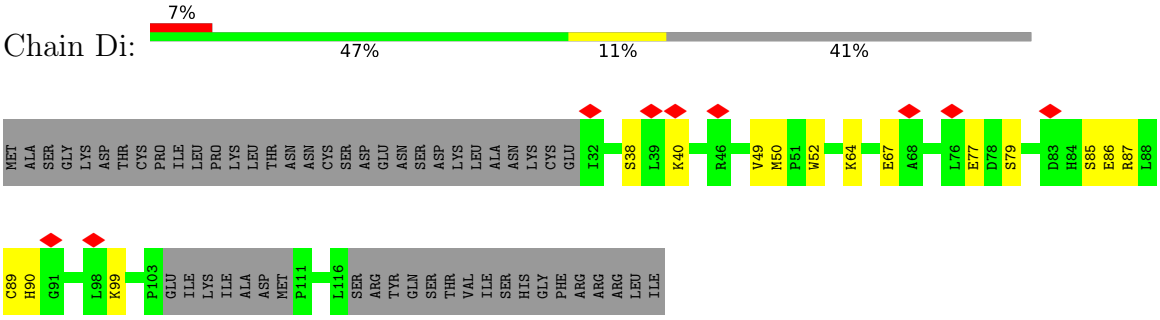


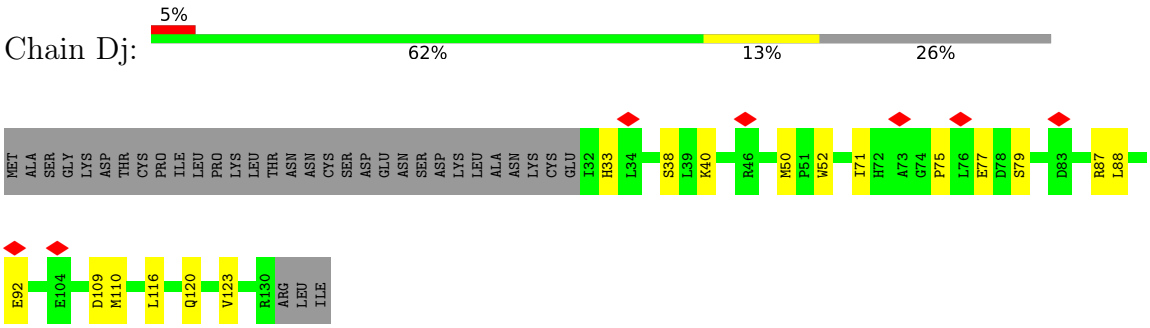
• Molecule 39: Testis-expressed protein 43

Chain Di:



• Molecule 39: Testis-expressed protein 43

Chain Dj:



• Molecule 39: Testis-expressed protein 43

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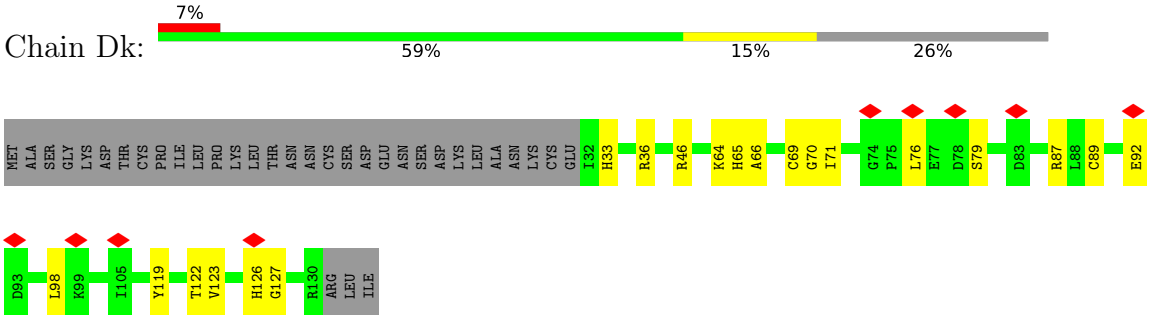

• Molecule 39: Testis-expressed protein 43

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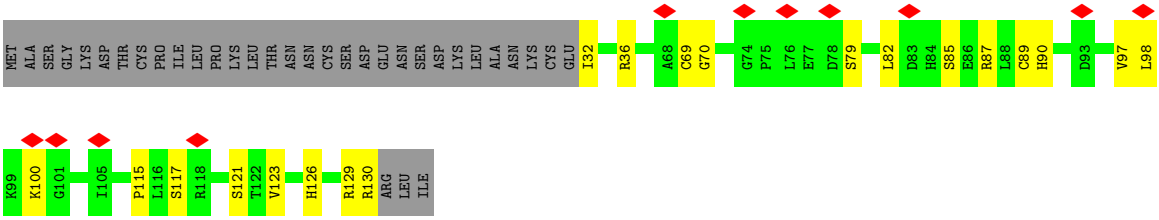
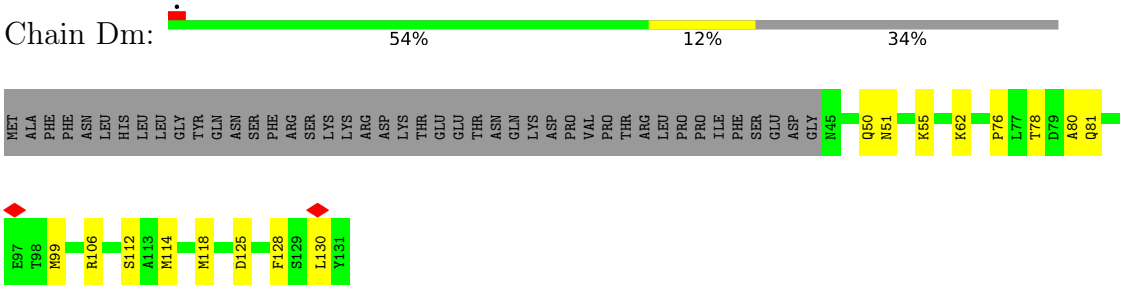
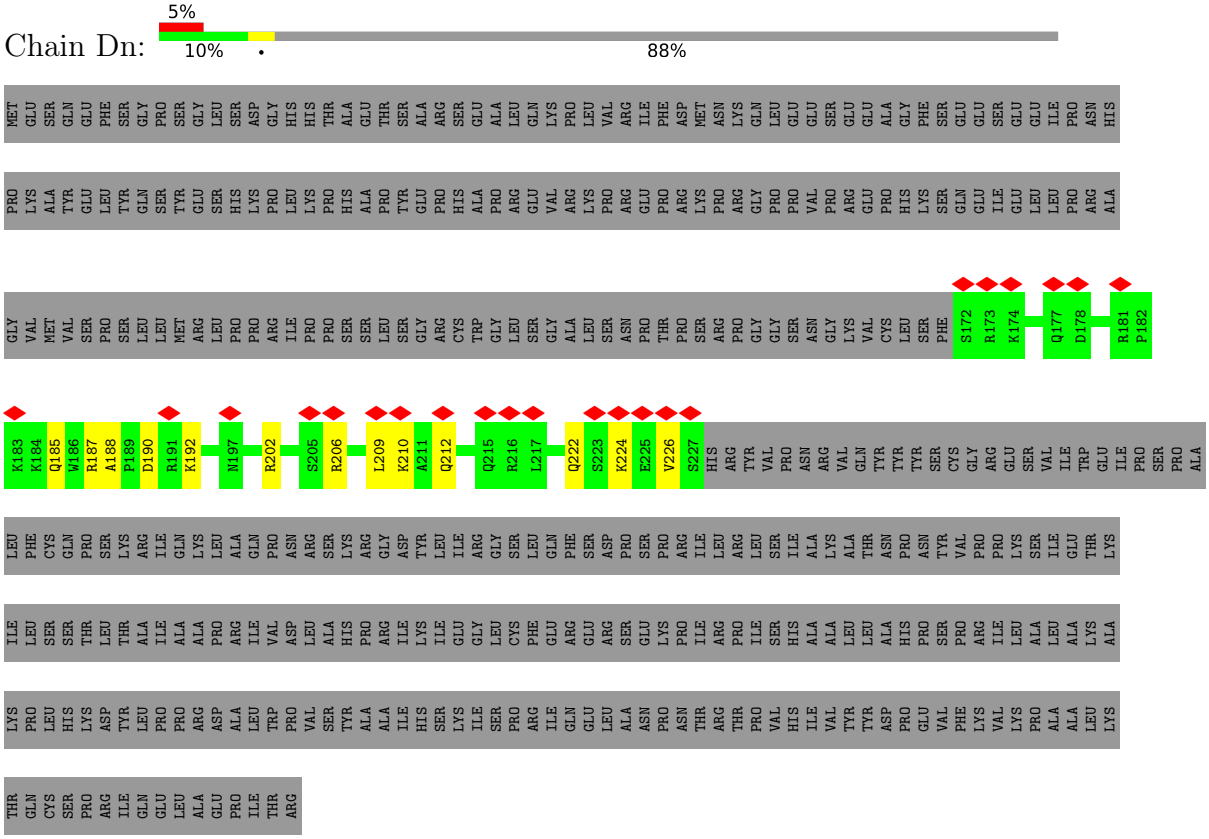


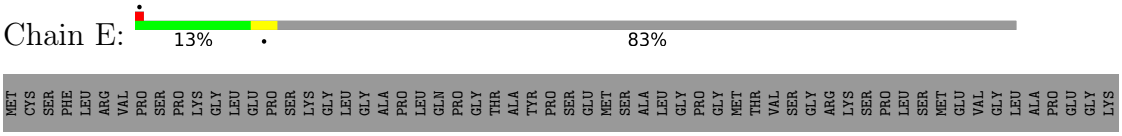
• Molecule 40: Testis expressed 49

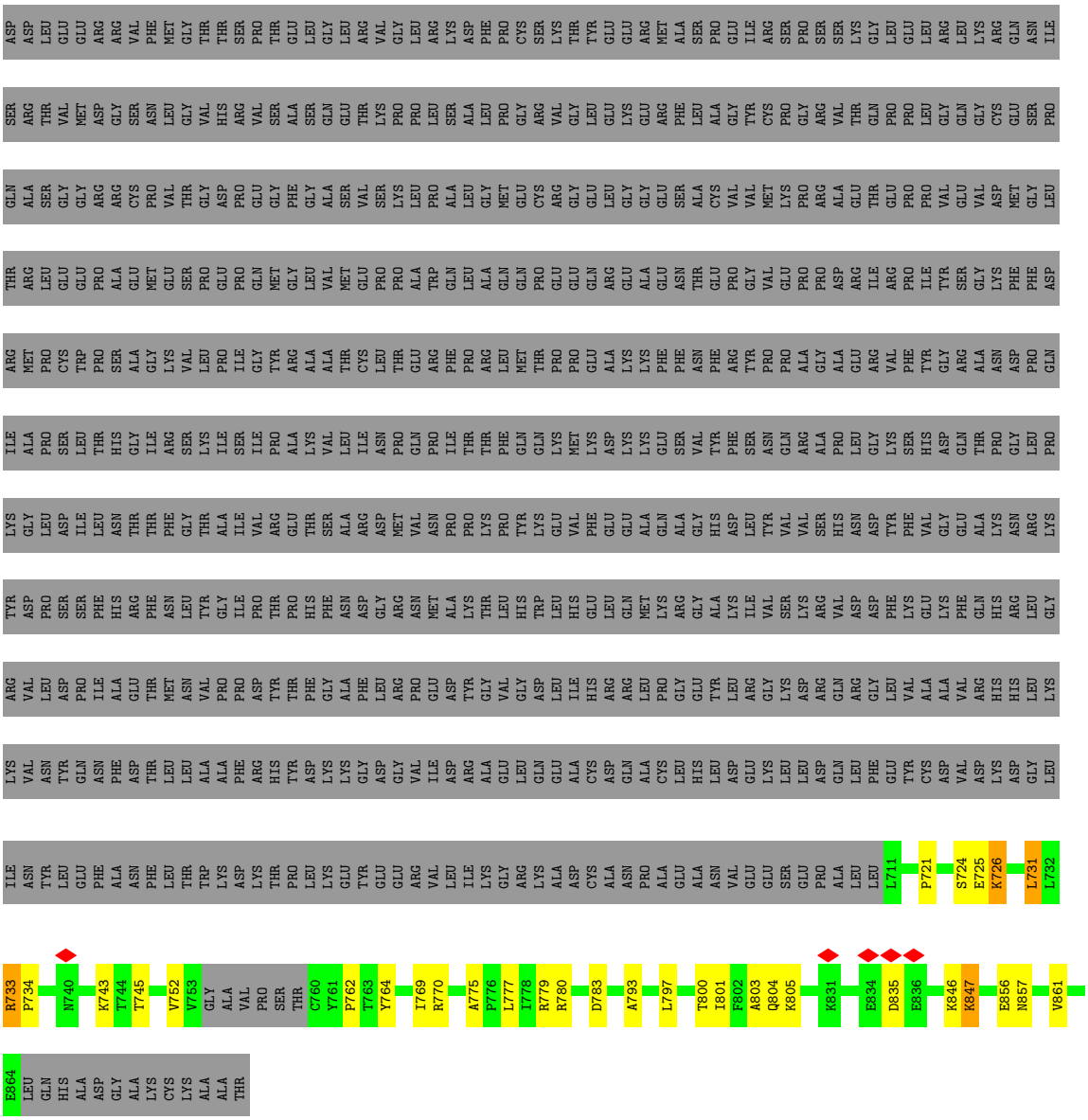


• Molecule 41: Theg spermatid protein like



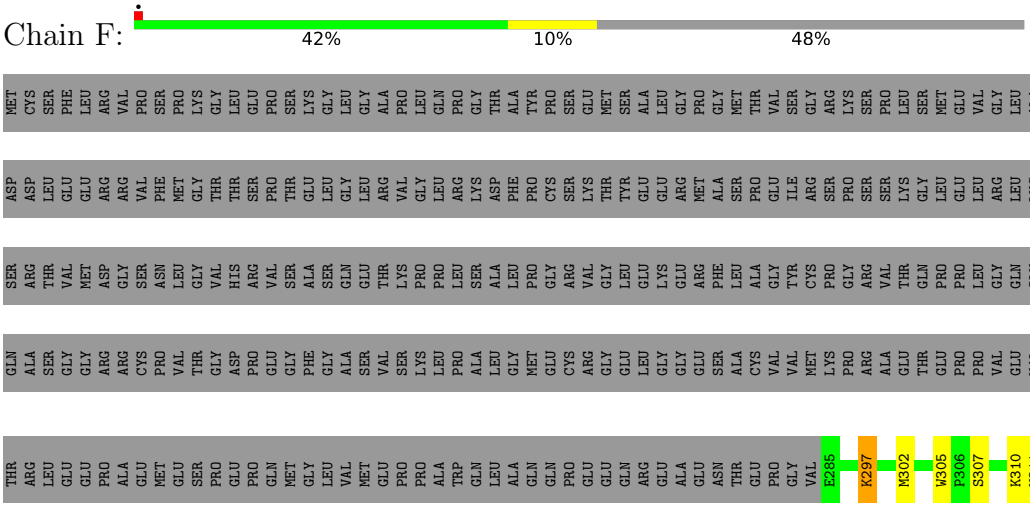
• Molecule 42: EF-hand domain-containing family member B

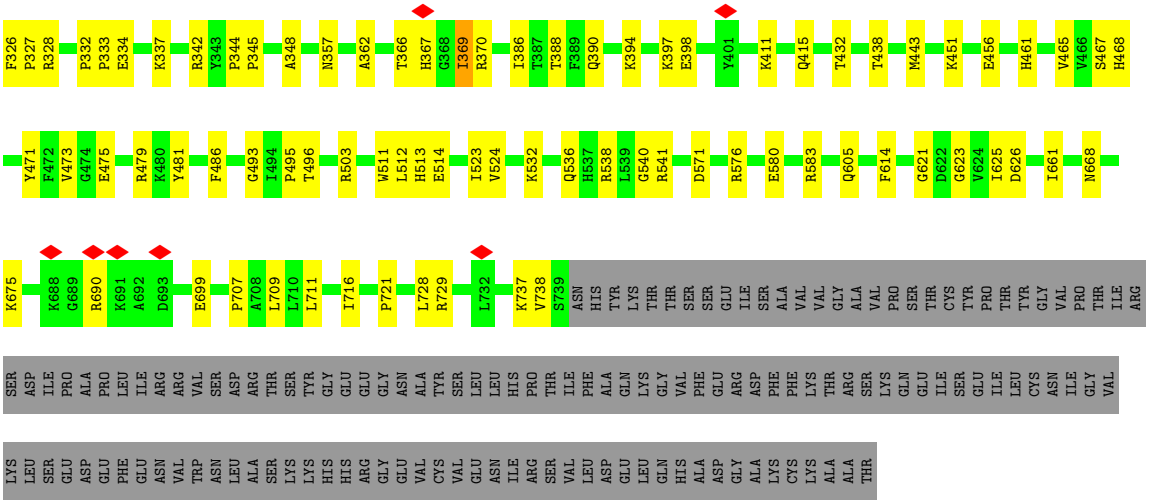




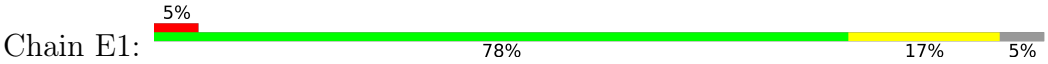
• Molecule 42: EF-hand domain-containing family member B

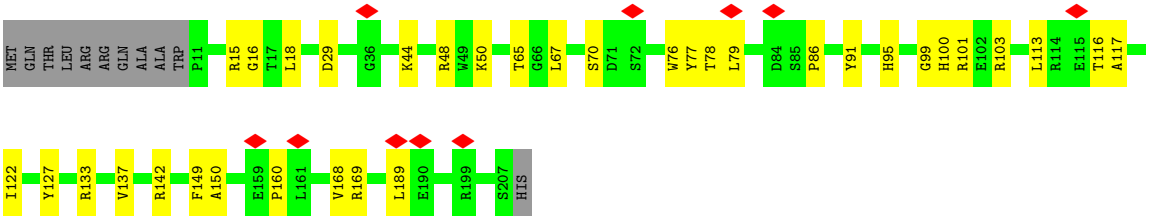
Chain F:



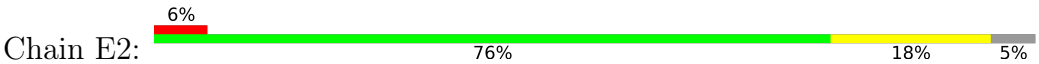


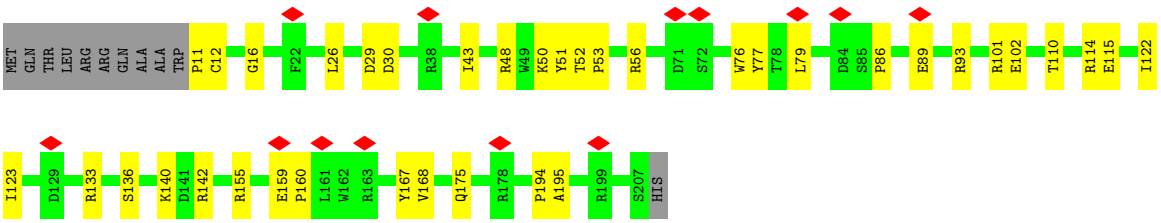
• Molecule 43: Tektin bundle interacting protein 1



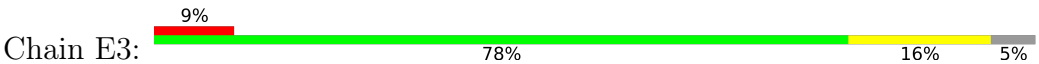


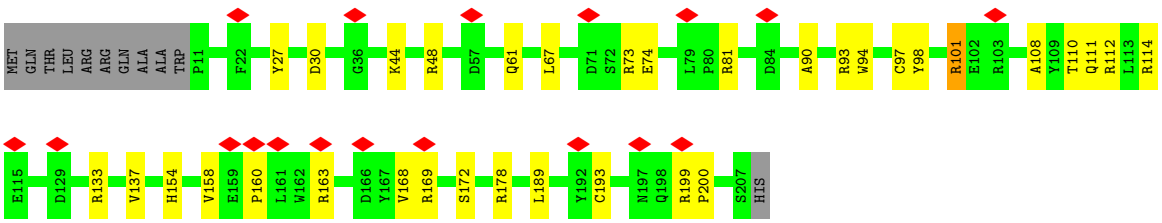
• Molecule 43: Tektin bundle interacting protein 1





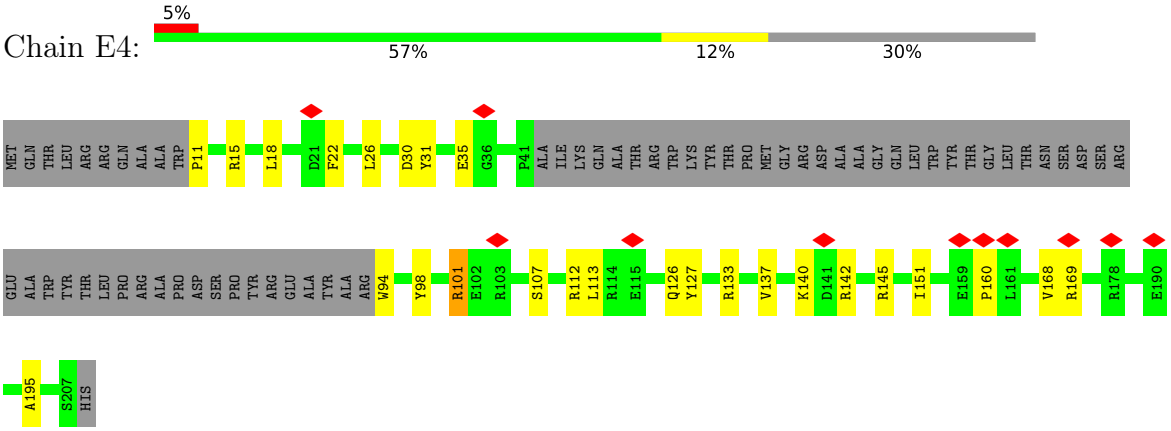
• Molecule 43: Tektin bundle interacting protein 1





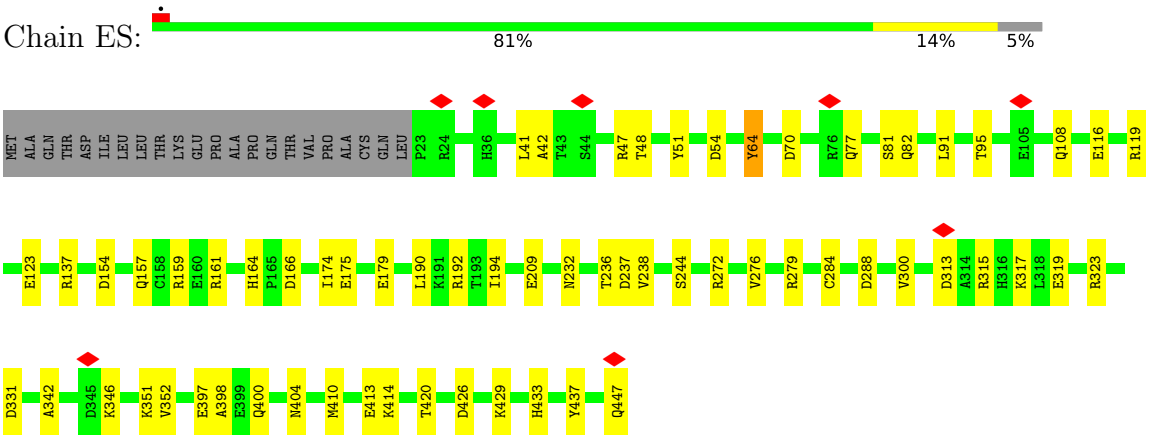
• Molecule 43: Tektin bundle interacting protein 1

Chain E4:



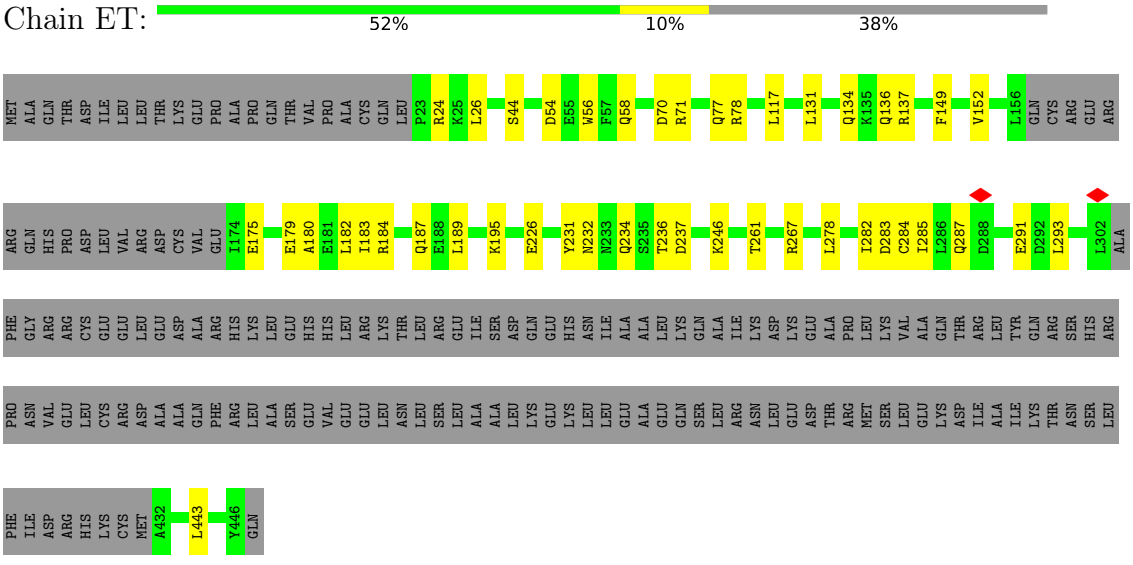
• Molecule 44: Tektin-4

Chain ES:



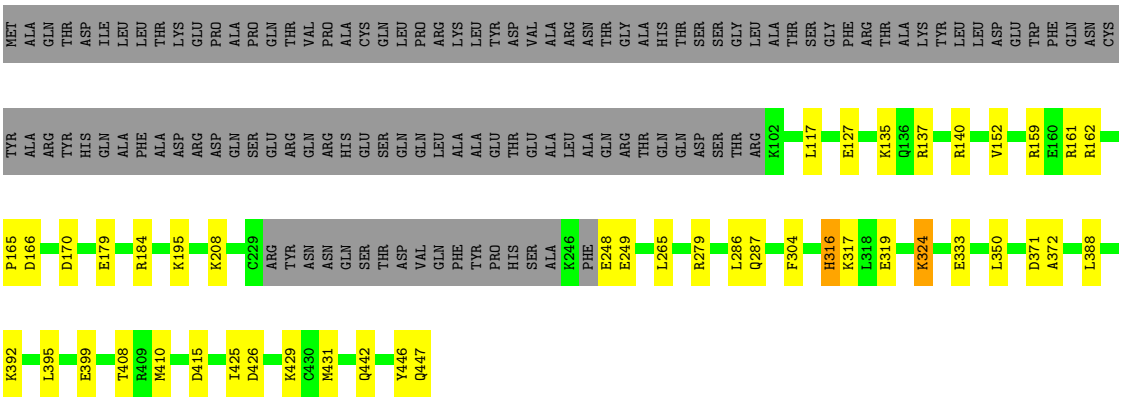
• Molecule 44: Tektin-4

Chain ET:



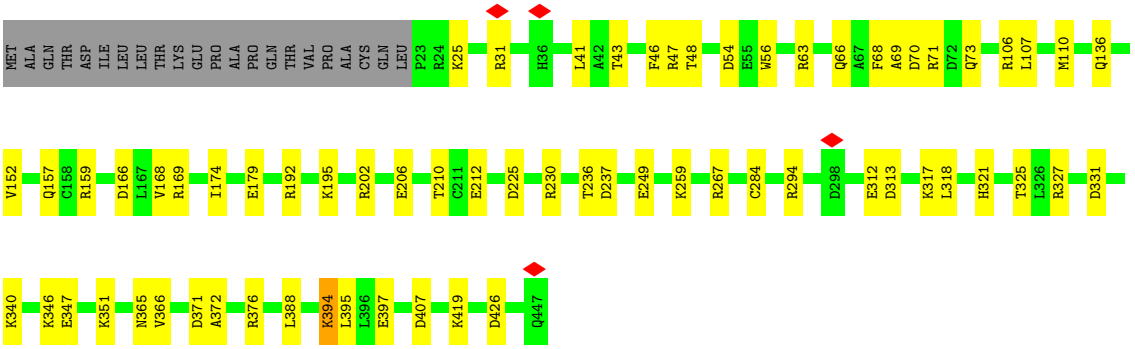
• Molecule 44: Tektin-4

Chain EU:



• Molecule 44: Tektin-4

Chain EV:



• Molecule 44: Tektin-4

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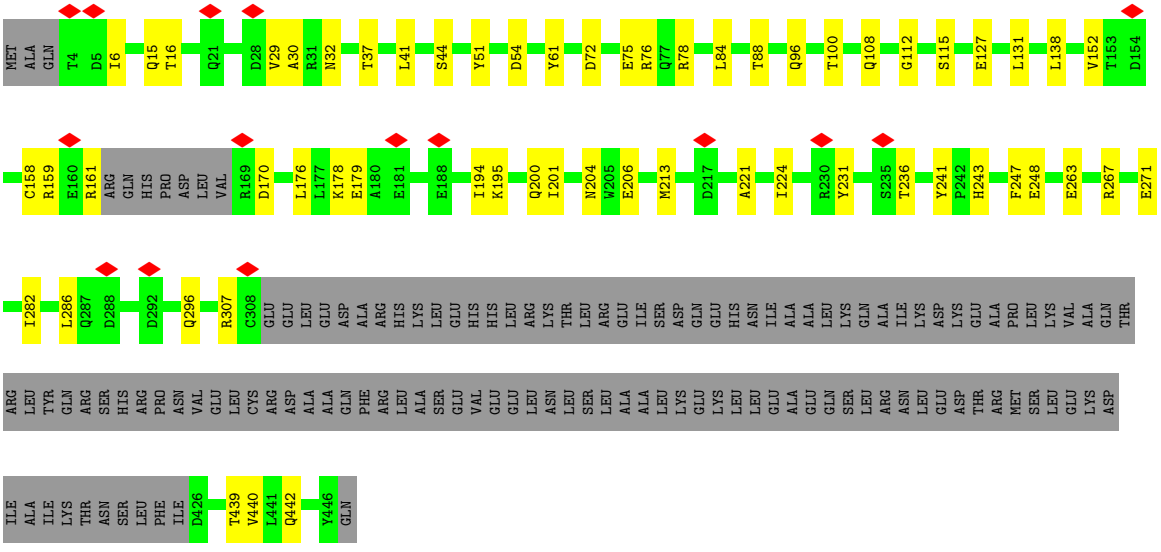
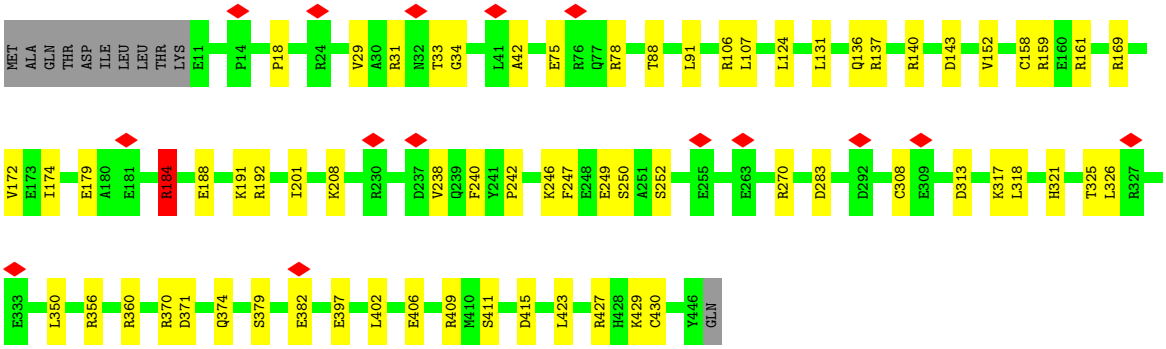


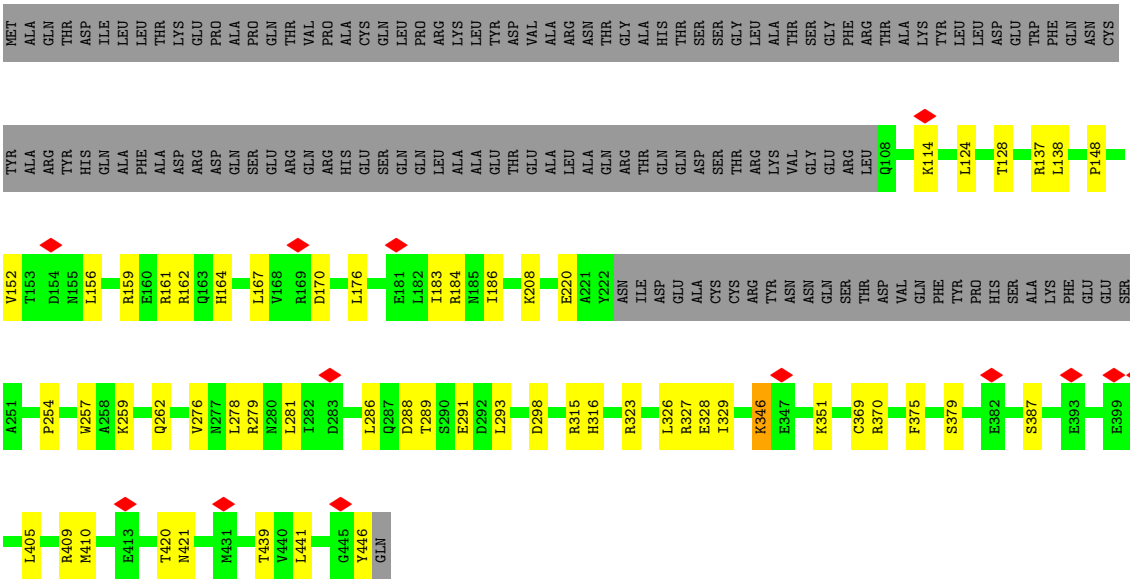
• Molecule 44: Tektin-4

Chain EX:



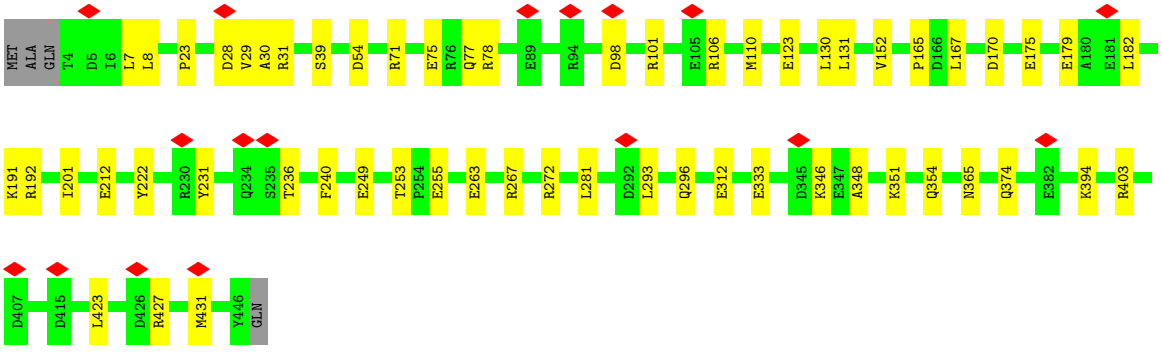
• Molecule 44: Tektin-4

Chain EY:



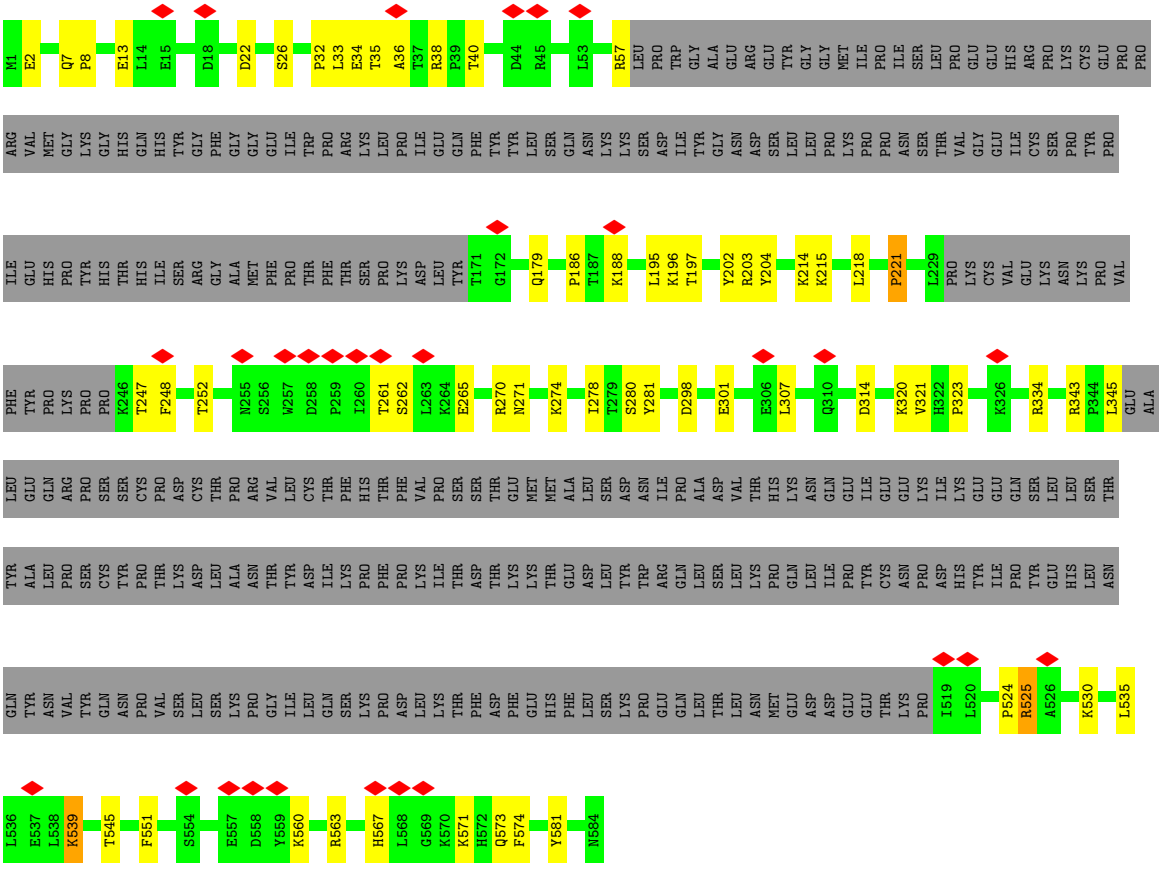
• Molecule 44: Tektin-4

Chain EZ:



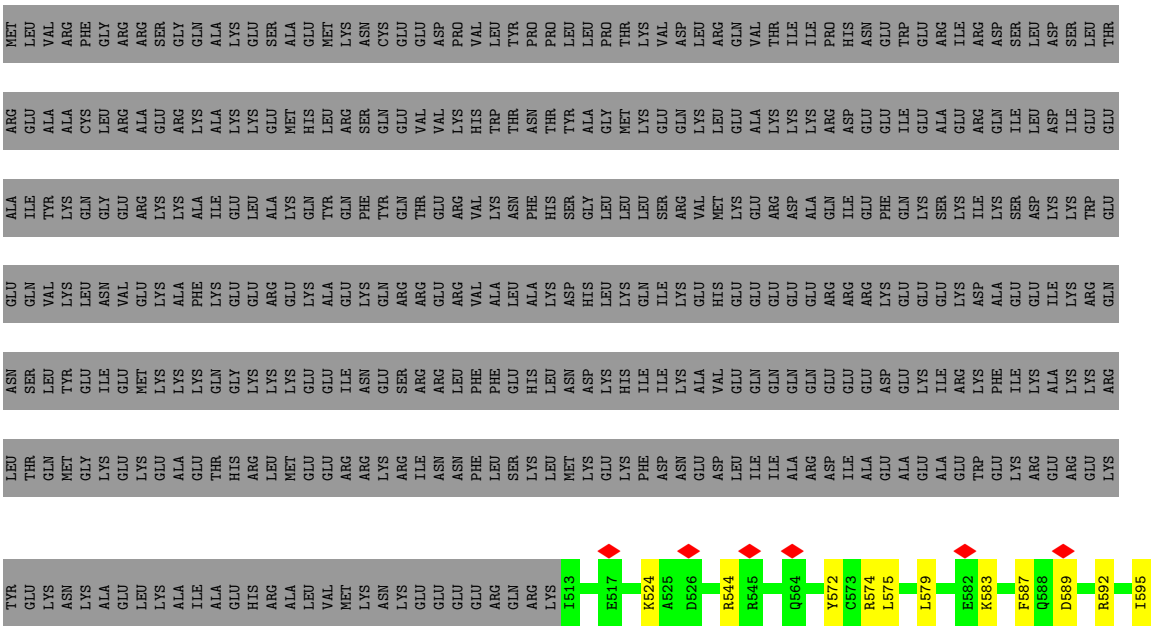
• Molecule 45: Chromosome 7 open reading frame 31

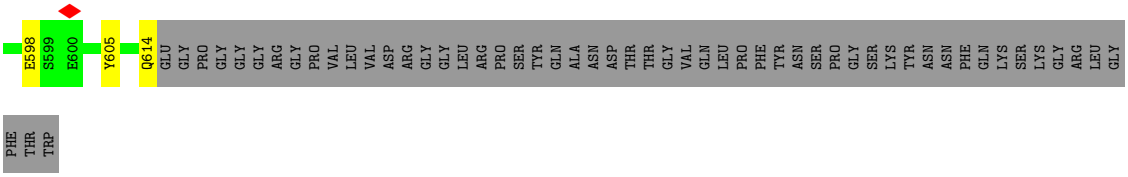
Chain G:



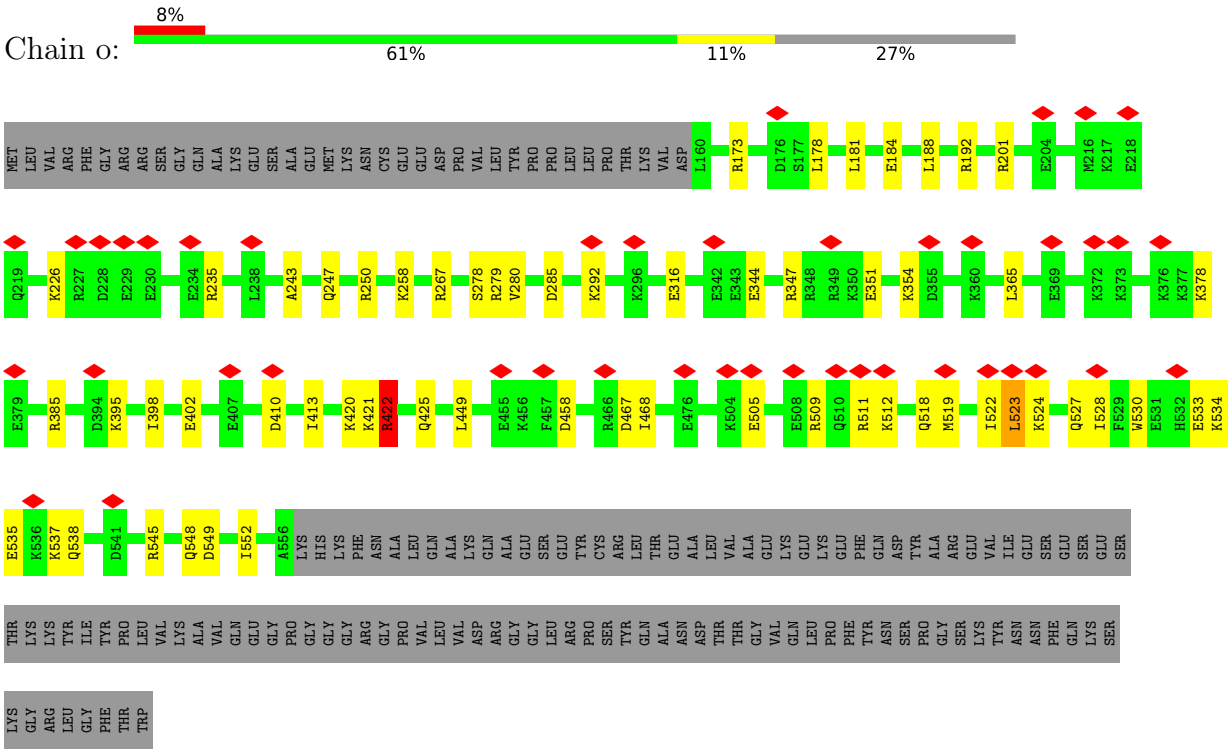
• Molecule 46: Cilia- and flagella- associated protein 210

Chain H:

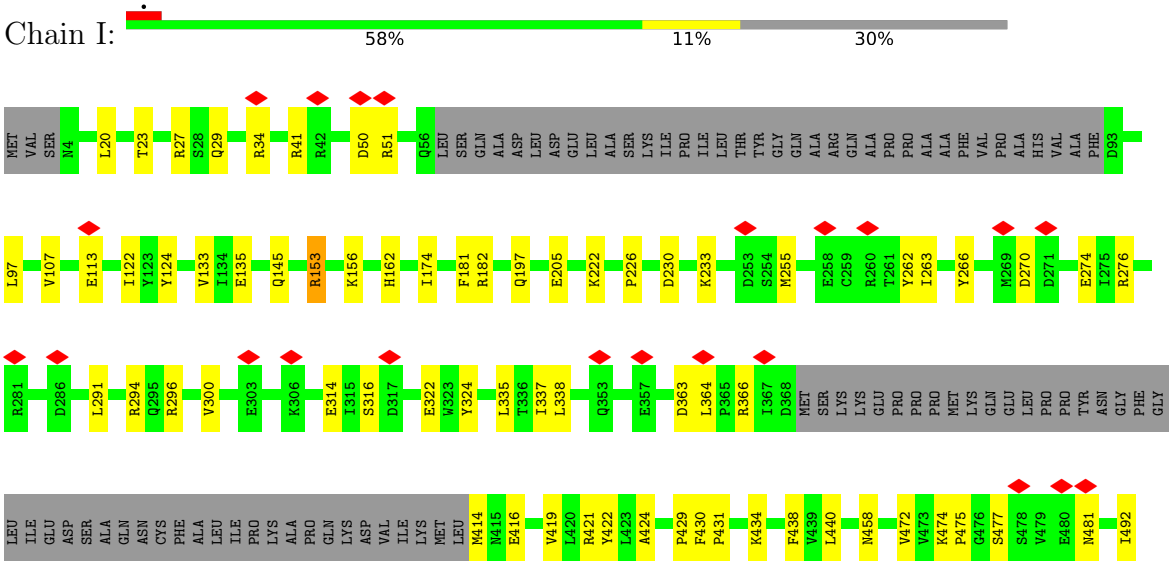


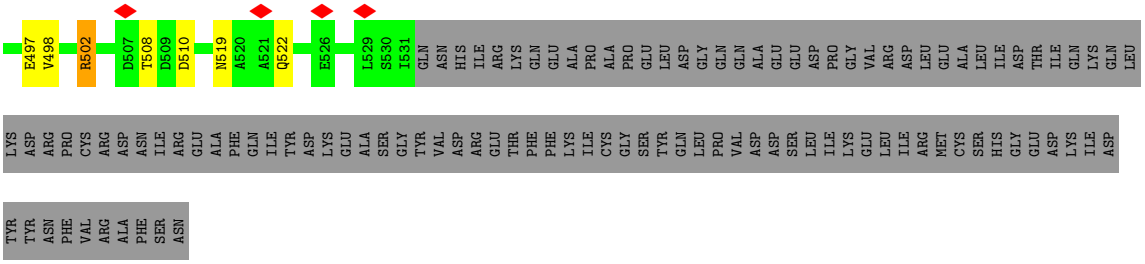


• Molecule 46: Cilia- and flagella- associated protein 210



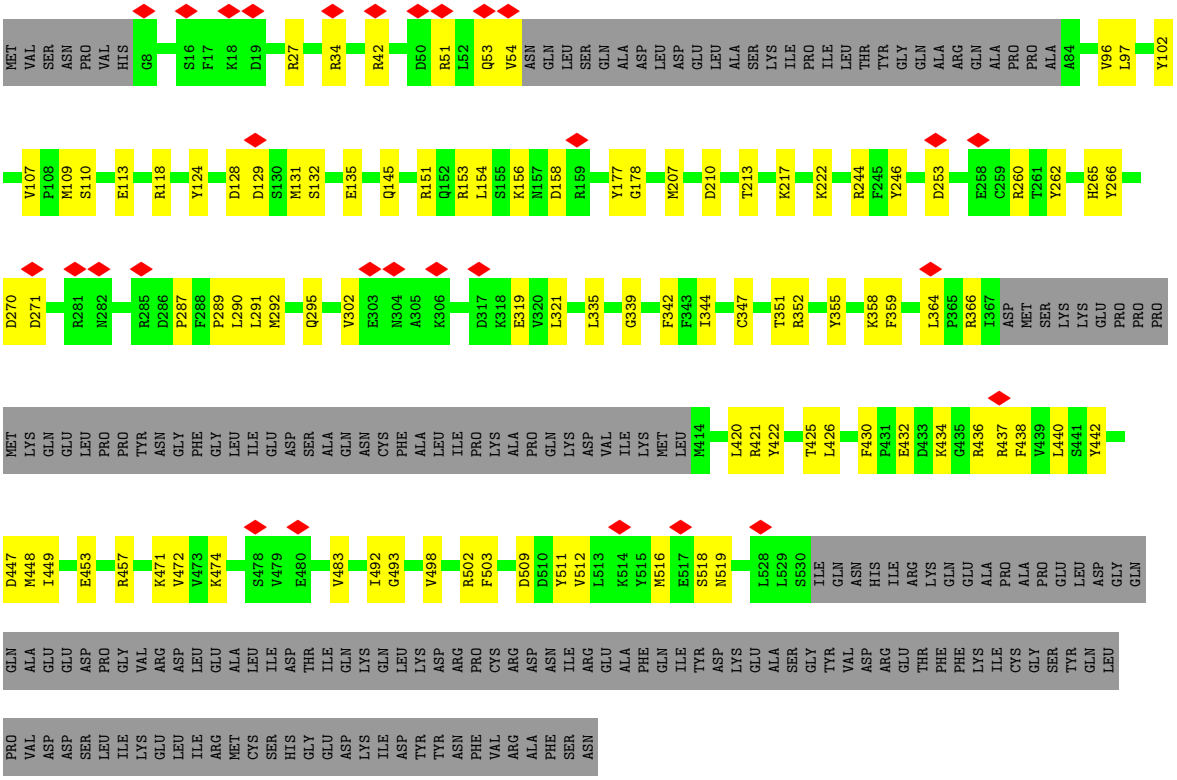
• Molecule 47: EF-hand domain-containing protein 1





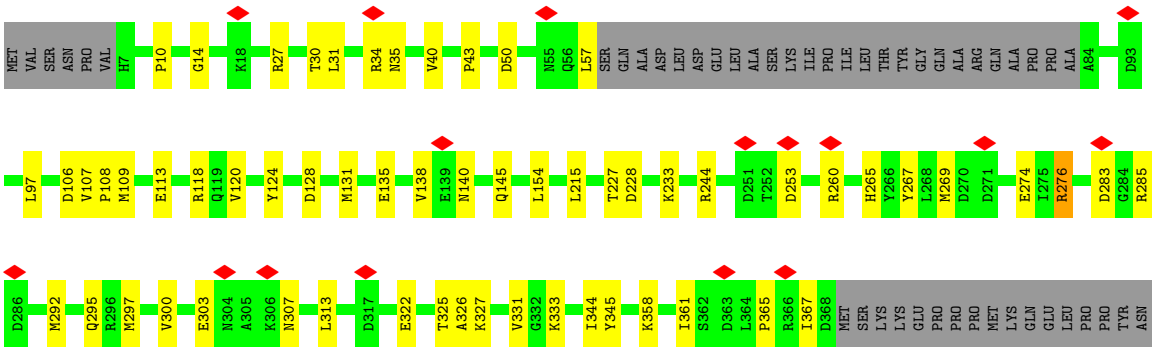
• Molecule 47: EF-hand domain-containing protein 1

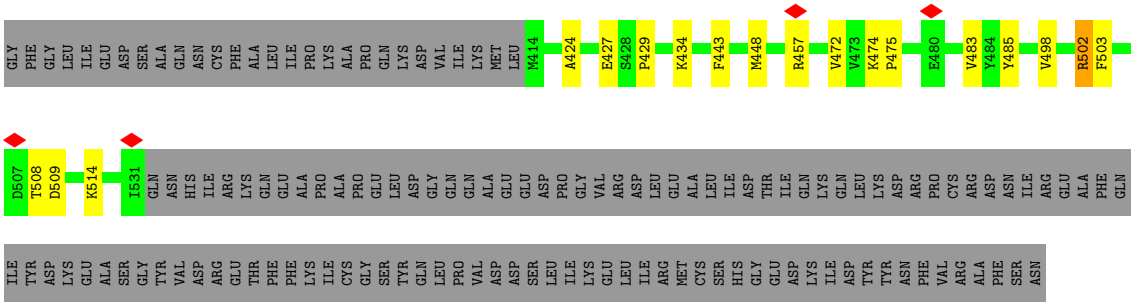
Chain X:



• Molecule 47: EF-hand domain-containing protein 1

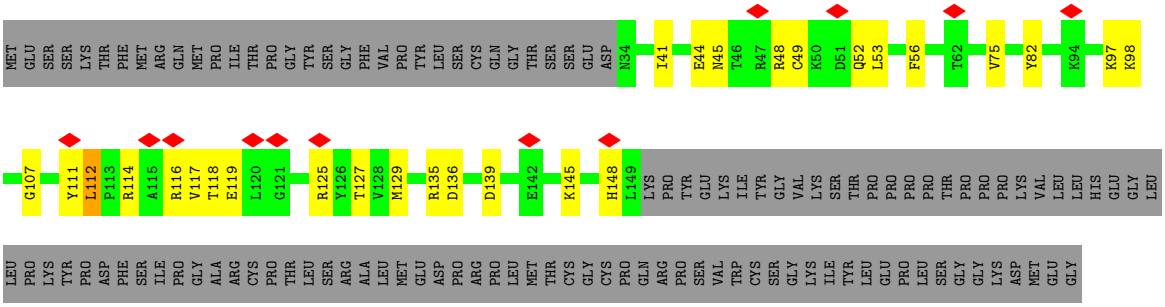
Chain Y:





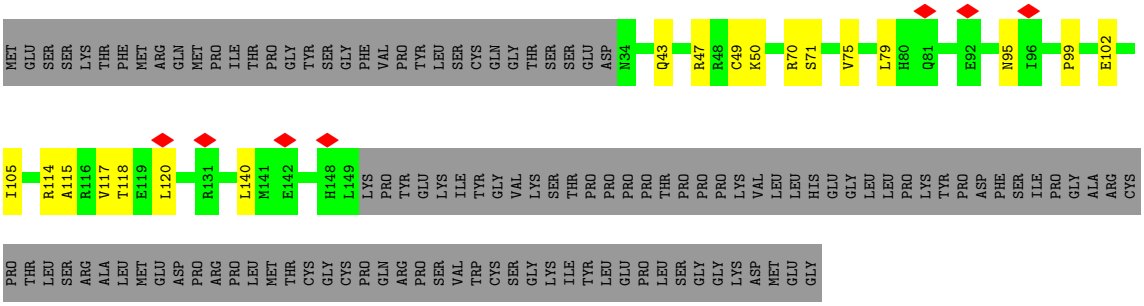
• Molecule 48: Uncharacterized protein C10orf82 homolog

Chain J:



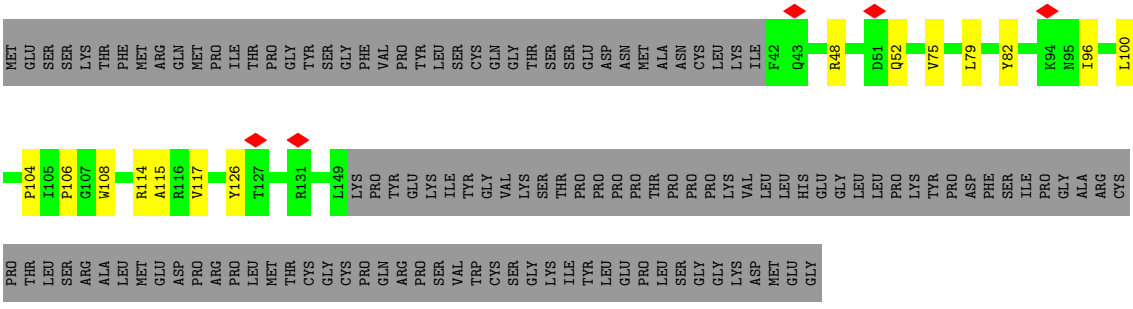
• Molecule 48: Uncharacterized protein C10orf82 homolog

Chain K:



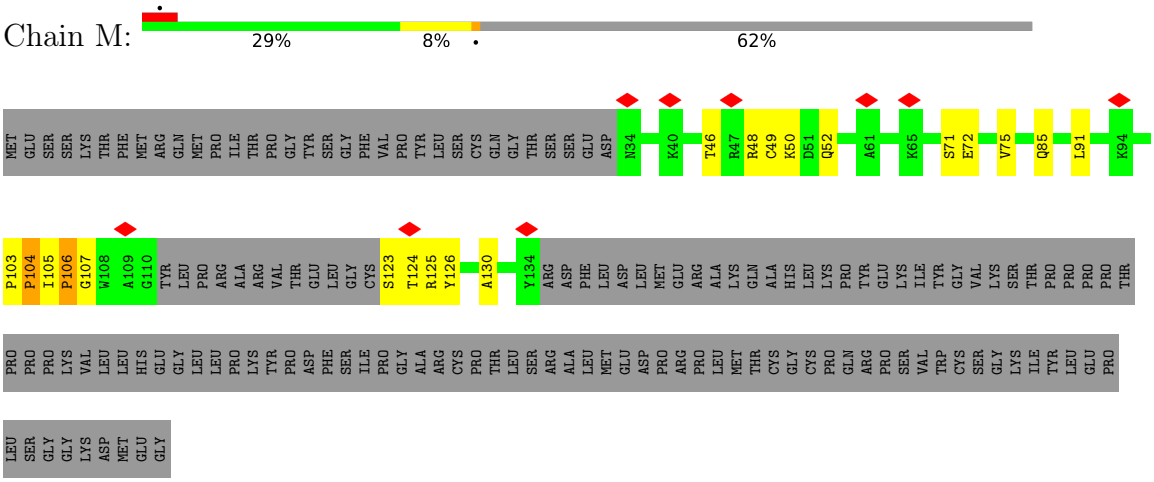
• Molecule 48: Uncharacterized protein C10orf82 homolog

Chain L:



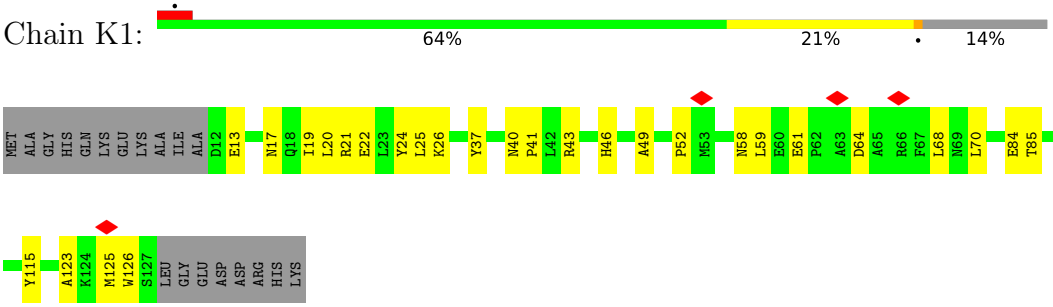
• Molecule 48: Uncharacterized protein C10orf82 homolog

Chain M:



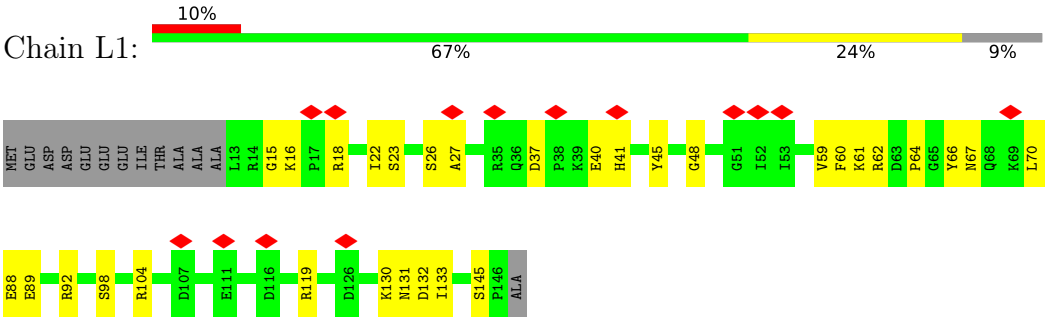
• Molecule 49: Cilia- and flagella-associated protein 144

Chain K1:



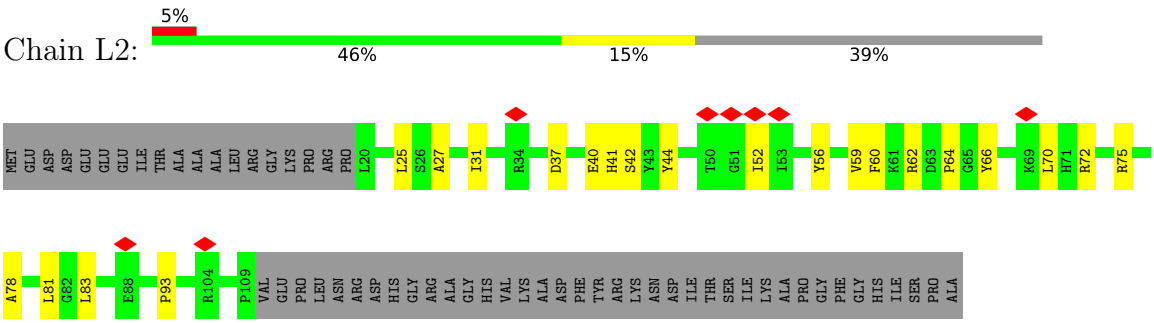
• Molecule 50: Chromosome 20 C5orf49 homolog

Chain L1:



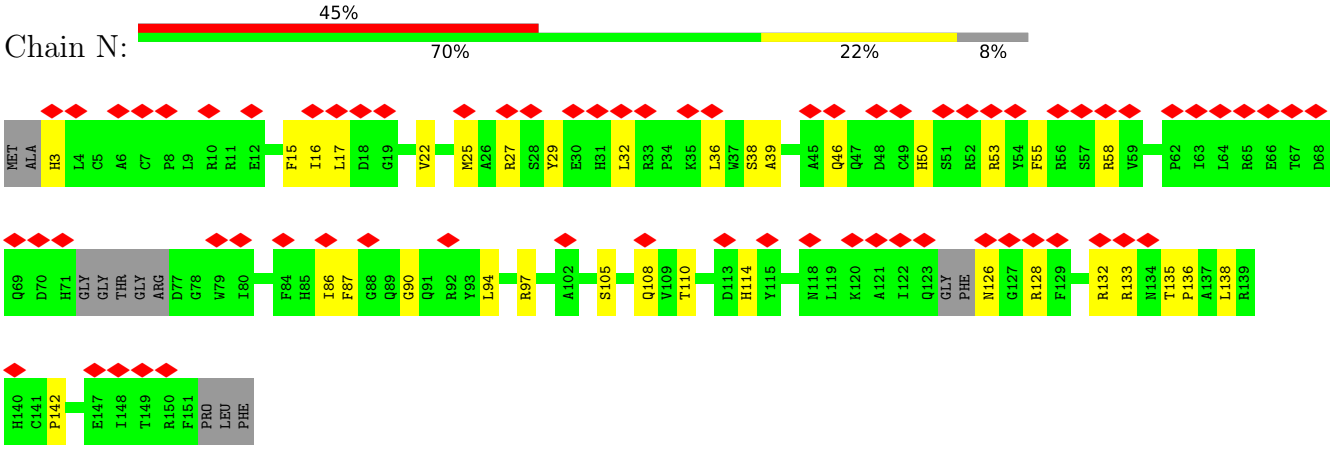
• Molecule 50: Chromosome 20 C5orf49 homolog

Chain L2:



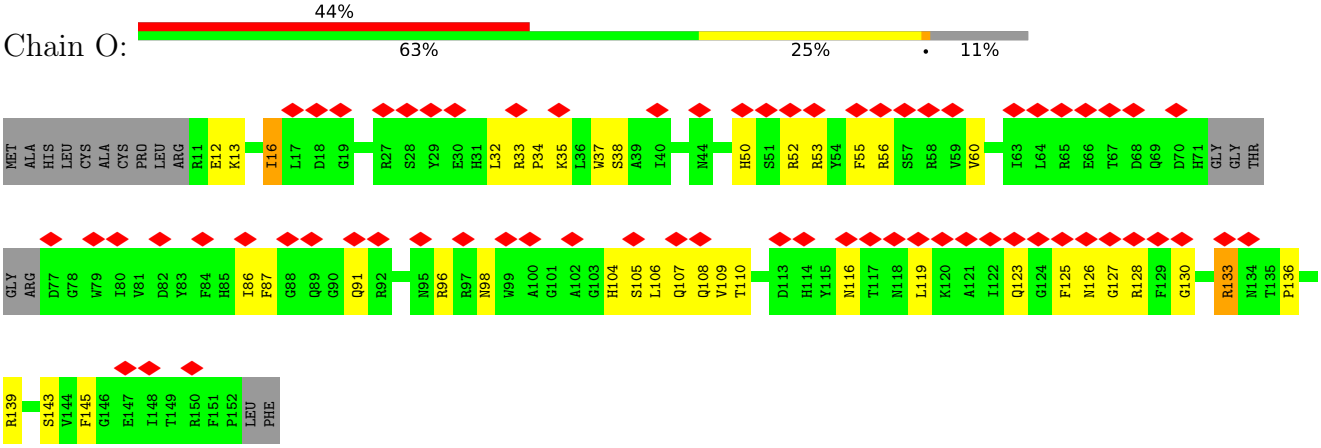
• Molecule 51: Chromosome 19 C17orf98 homolog

Chain N:



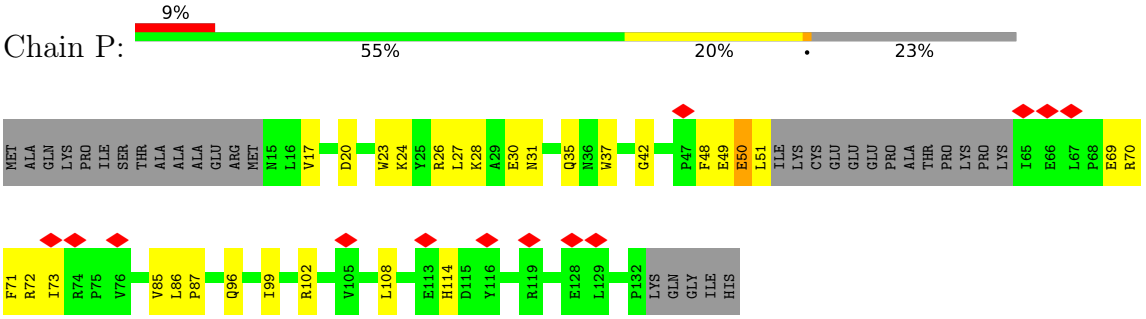
• Molecule 51: Chromosome 19 C17orf98 homolog

Chain O:



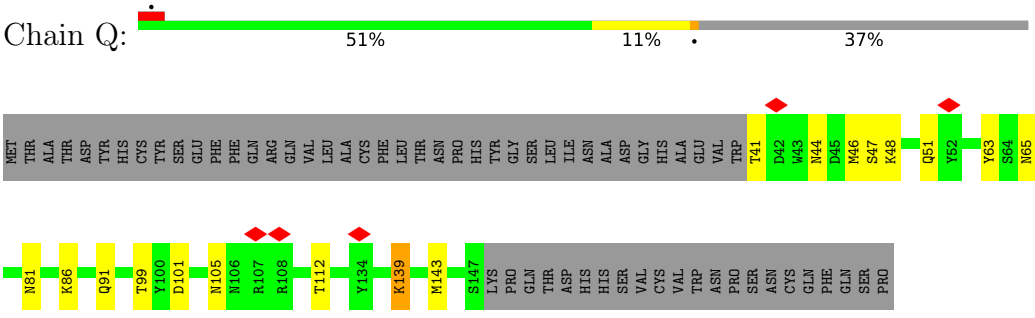
• Molecule 52: Chromosome 13 C20orf85 homolog

Chain P:



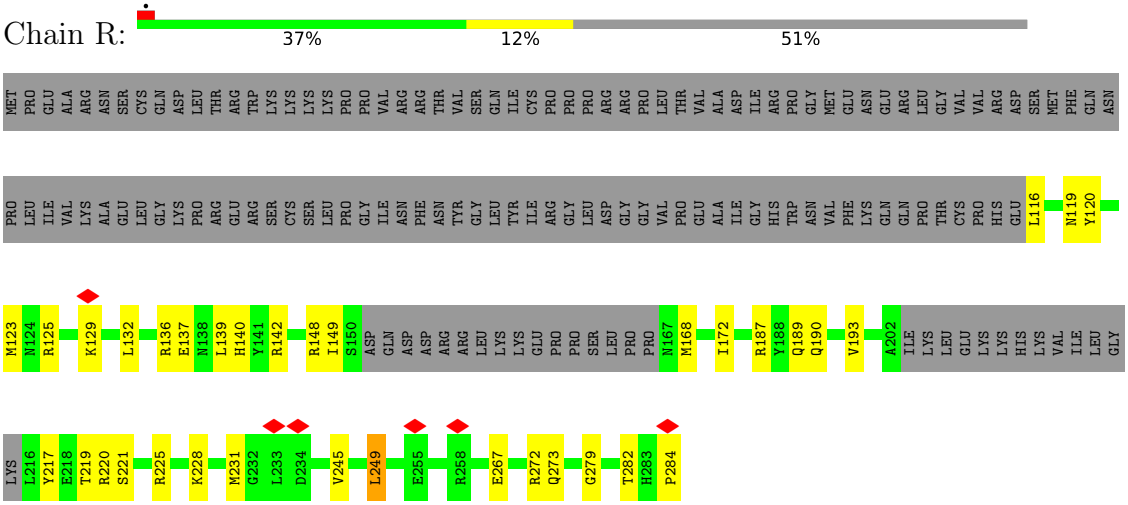
• Molecule 53: Cilia- and flagella-associated protein 68

Chain Q:



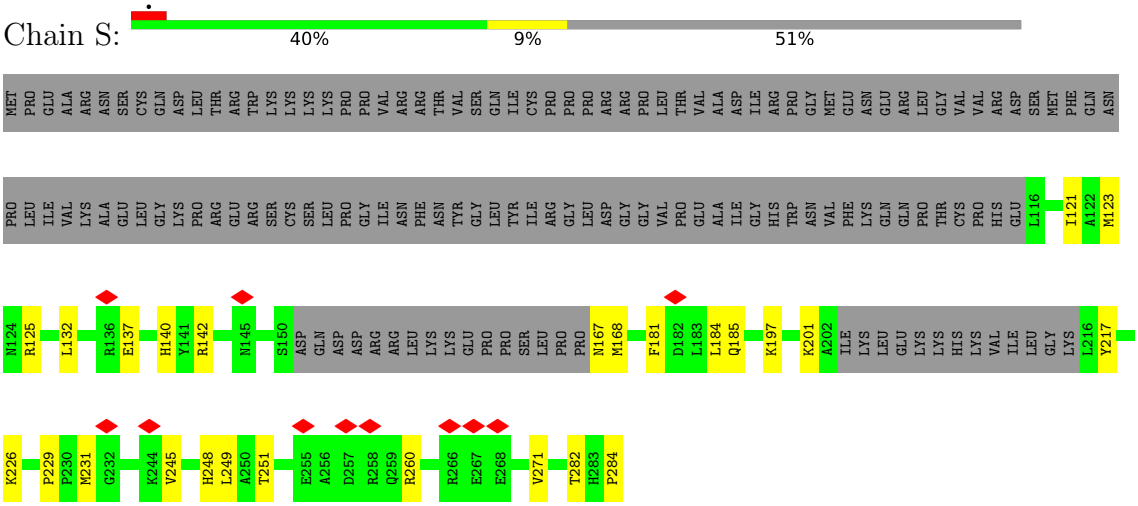
• Molecule 54: Cilia and flagella associated protein 77

Chain R:



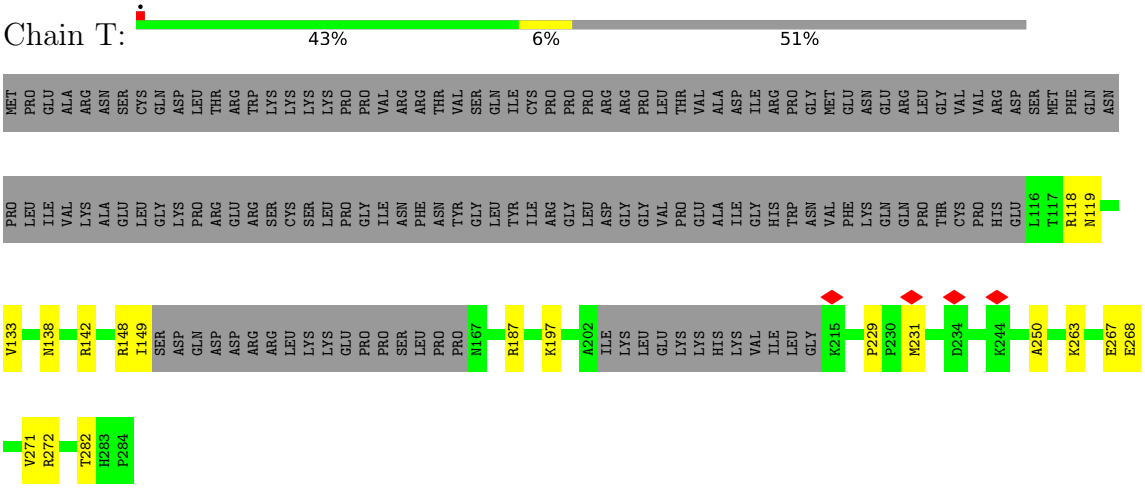
• Molecule 54: Cilia and flagella associated protein 77

Chain S:



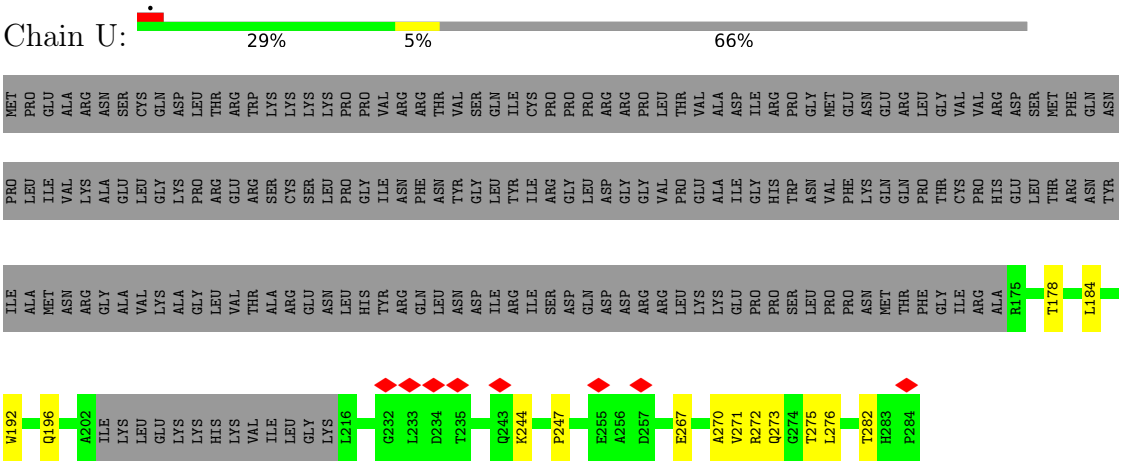
• Molecule 54: Cilia and flagella associated protein 77

Chain T:



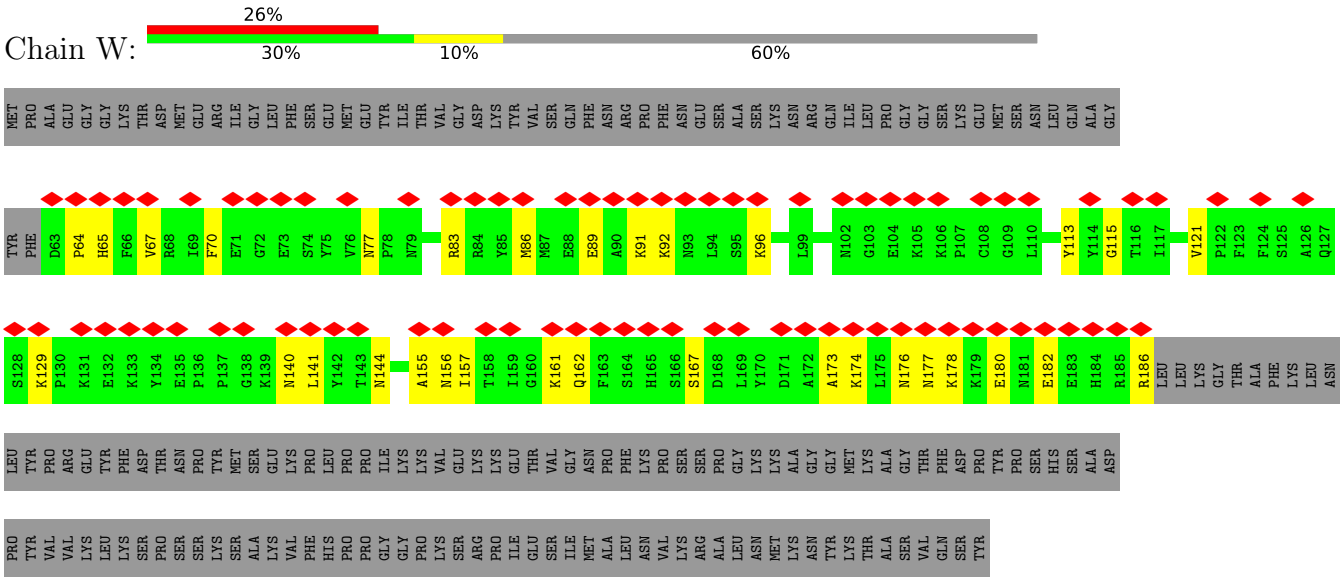
• Molecule 54: Cilia and flagella associated protein 77

Chain U:



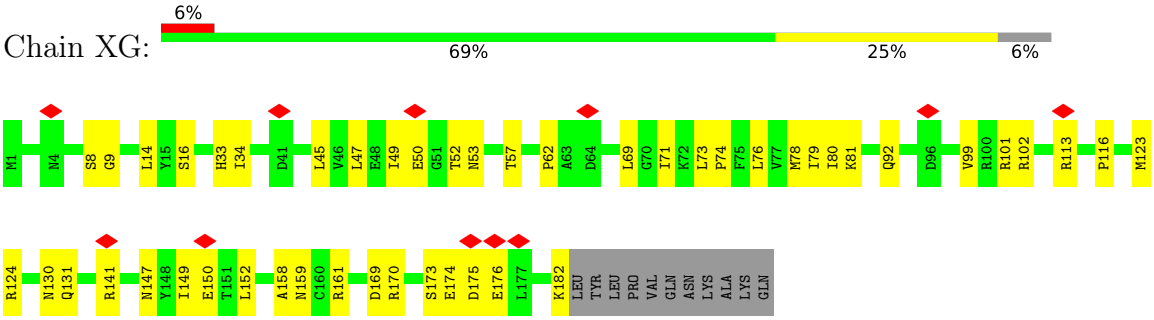
• Molecule 55: UPF0602 protein C4orf47 homolog

Chain W:



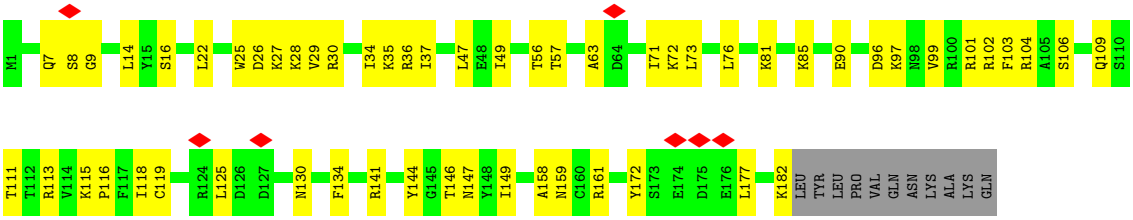
• Molecule 56: Cilia- and flagella-associated protein 20

Chain XG:

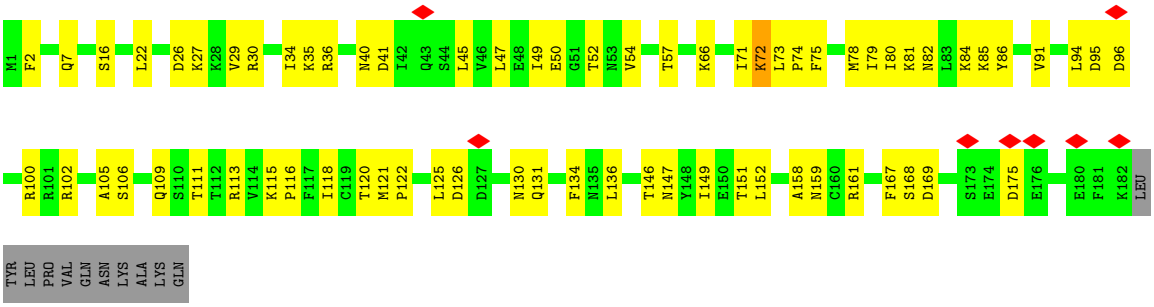


• Molecule 56: Cilia- and flagella-associated protein 20

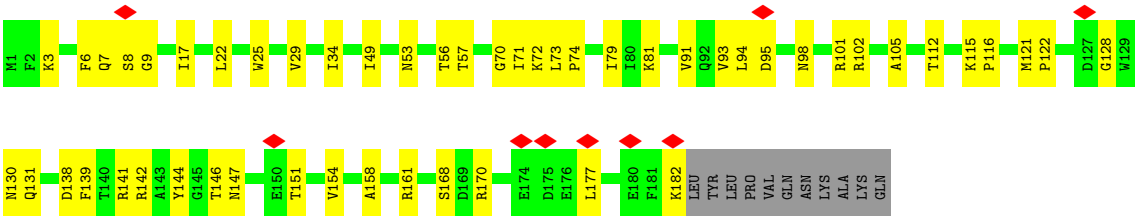
Chain XH:



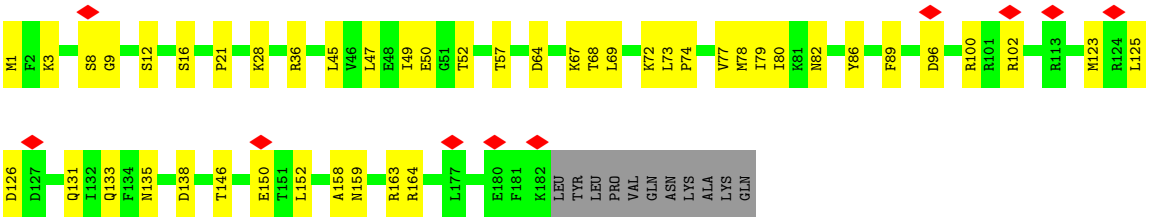
• Molecule 56: Cilia- and flagella-associated protein 20



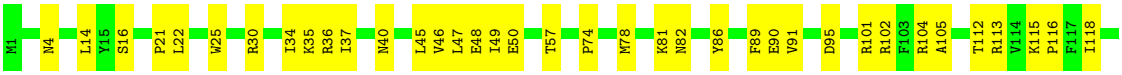
• Molecule 56: Cilia- and flagella-associated protein 20

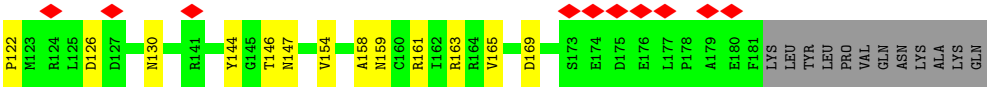


• Molecule 56: Cilia- and flagella-associated protein 20



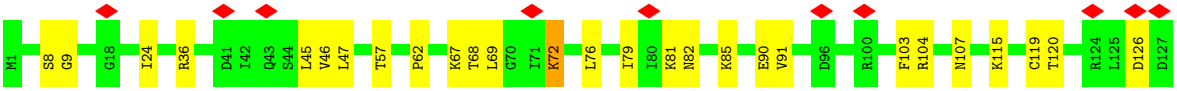
• Molecule 56: Cilia- and flagella-associated protein 20

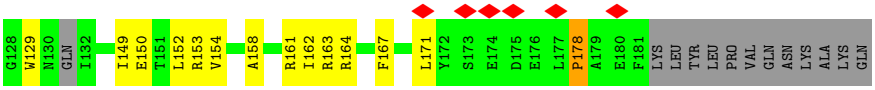




• Molecule 56: Cilia- and flagella-associated protein 20

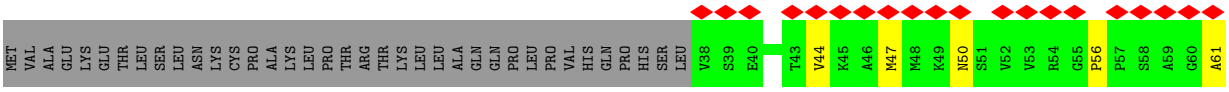
Chain XM:

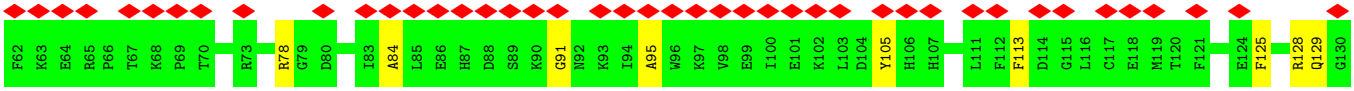


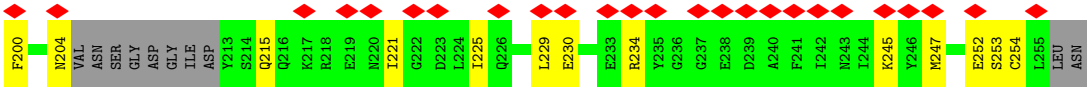


• Molecule 57: Parkin coregulated gene protein

Chain YG:

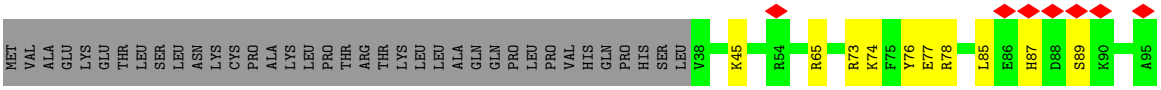


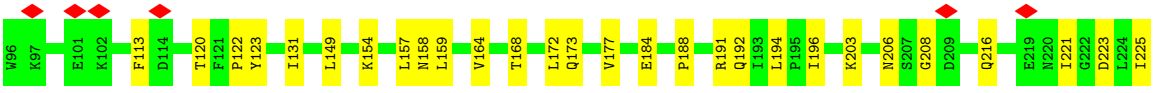


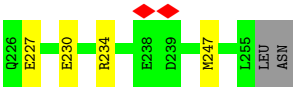


• Molecule 57: Parkin coregulated gene protein

Chain YH:

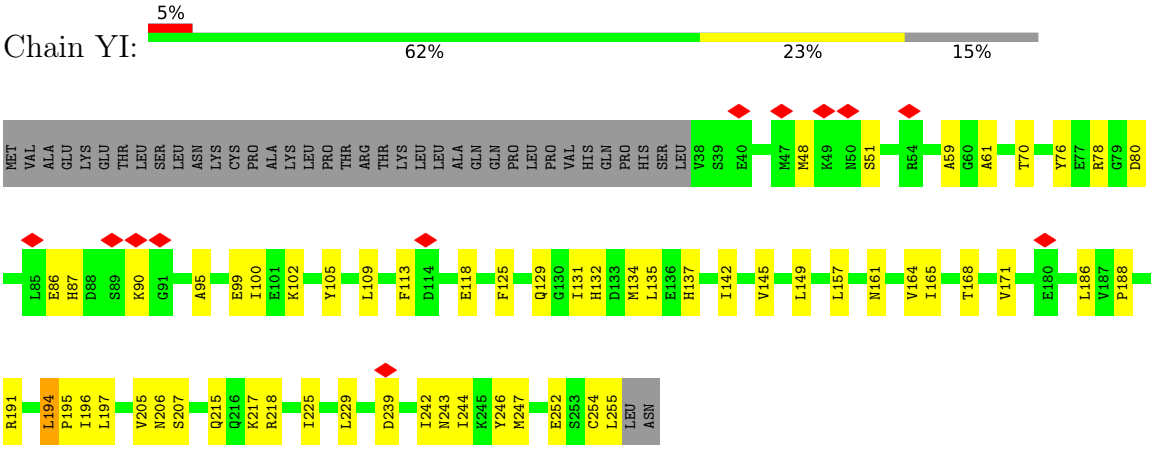






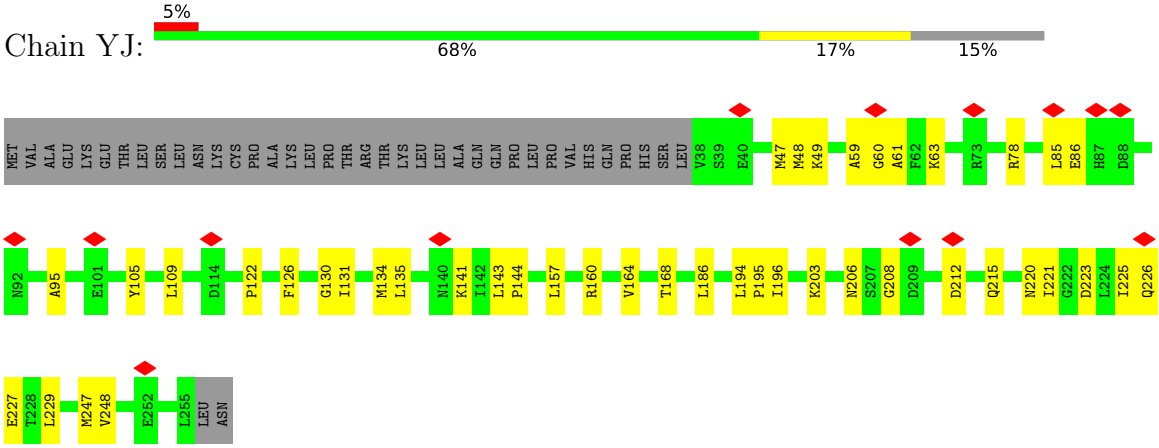
• Molecule 57: Parkin coregulated gene protein

Chain YI:



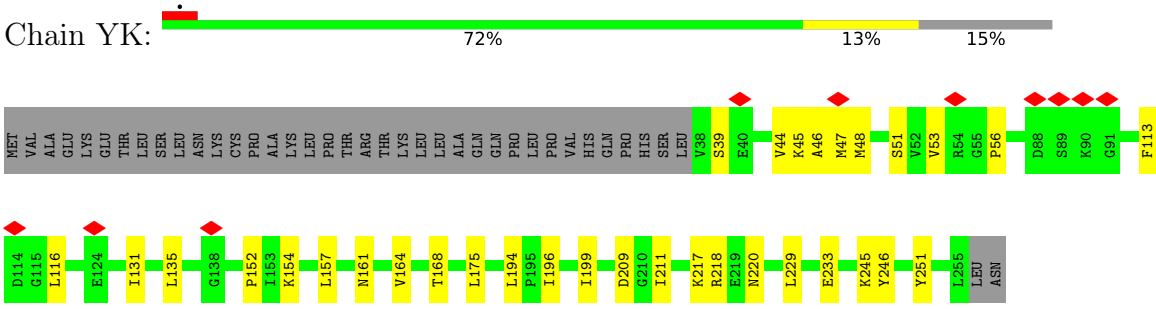
• Molecule 57: Parkin coregulated gene protein

Chain YJ:



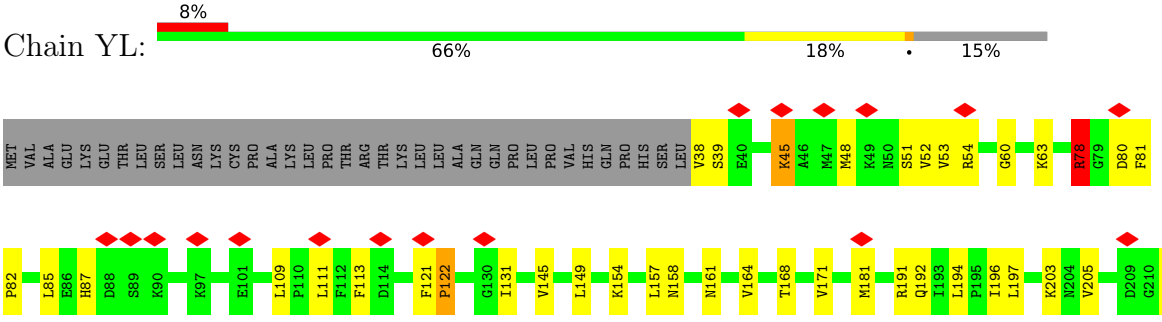
• Molecule 57: Parkin coregulated gene protein

Chain YK:

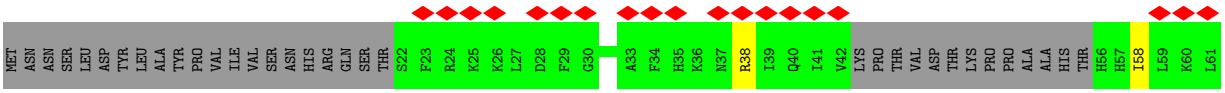


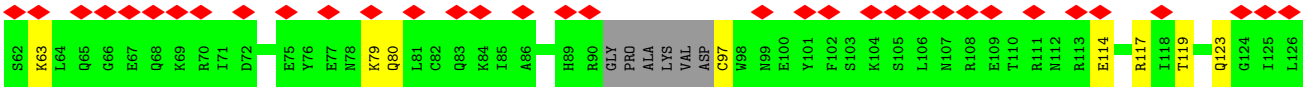
• Molecule 57: Parkin coregulated gene protein

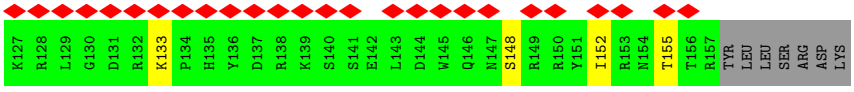
Chain YL:



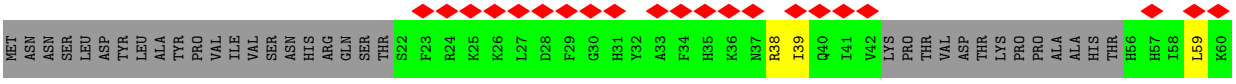
• Molecule 58: CFAP97 domain containing 1

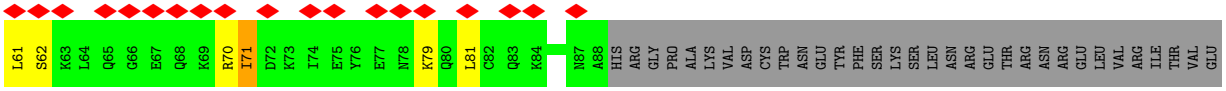




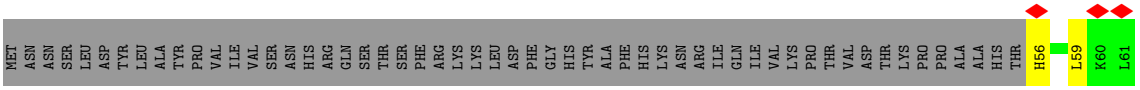


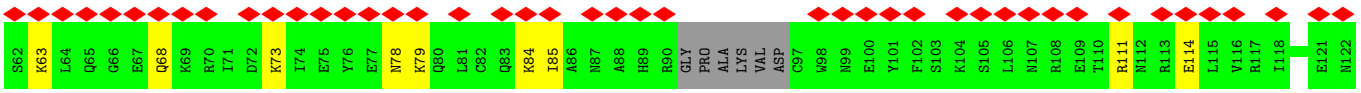
• Molecule 58: CFAP97 domain containing 1

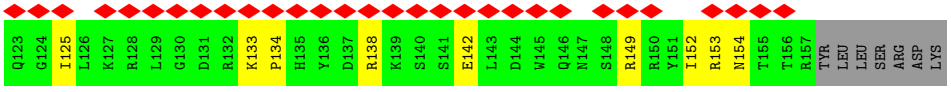




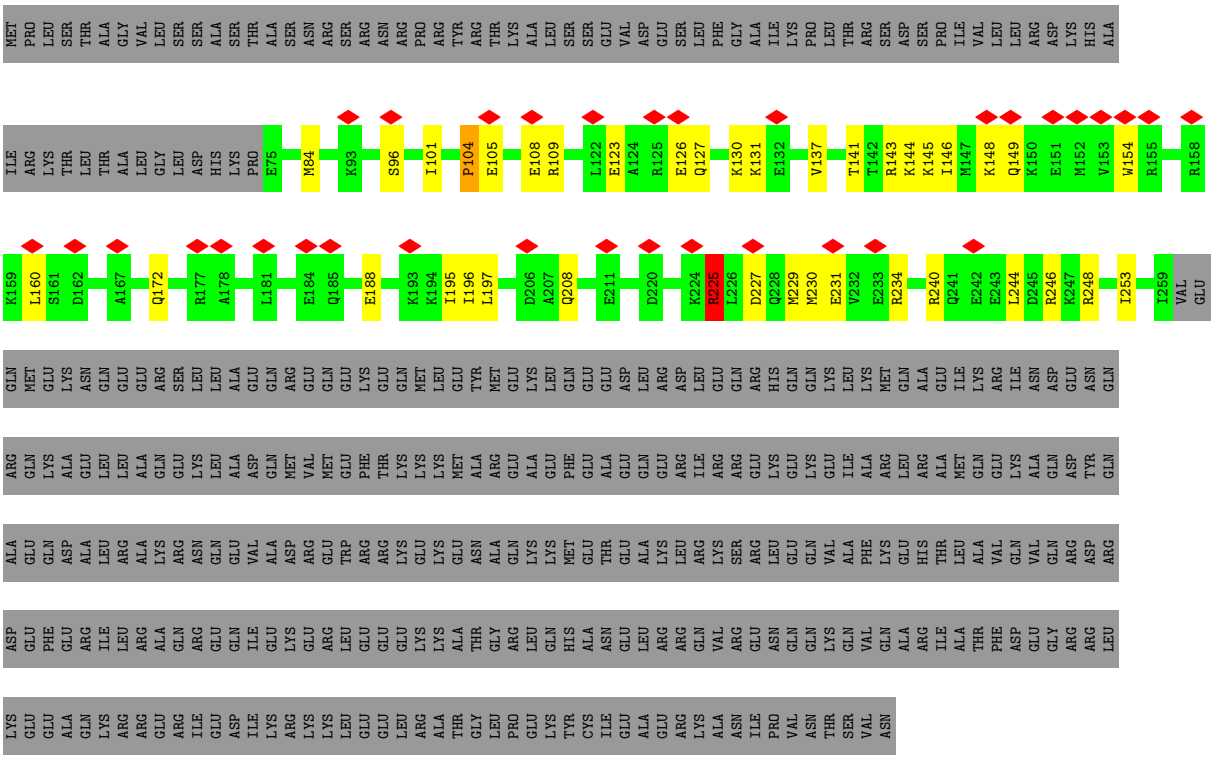
• Molecule 58: CFAP97 domain containing 1





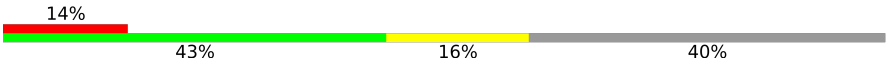


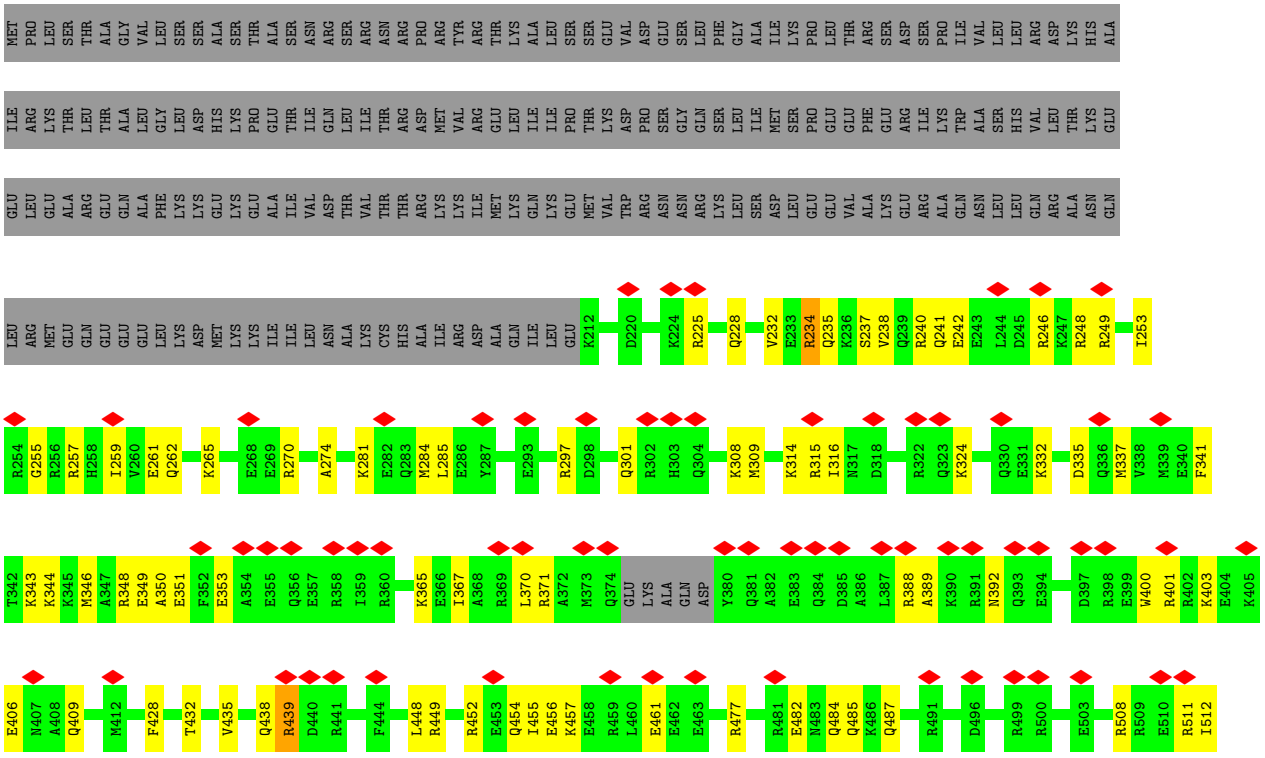
• Molecule 59: Cilia- and flagella-associated protein 45

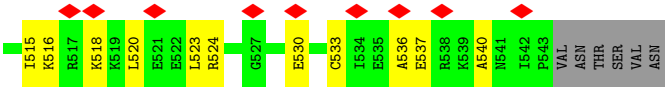


• Molecule 59: Cilia- and flagella-associated protein 45

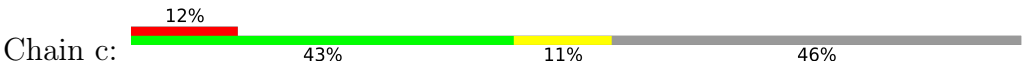
Chain b:

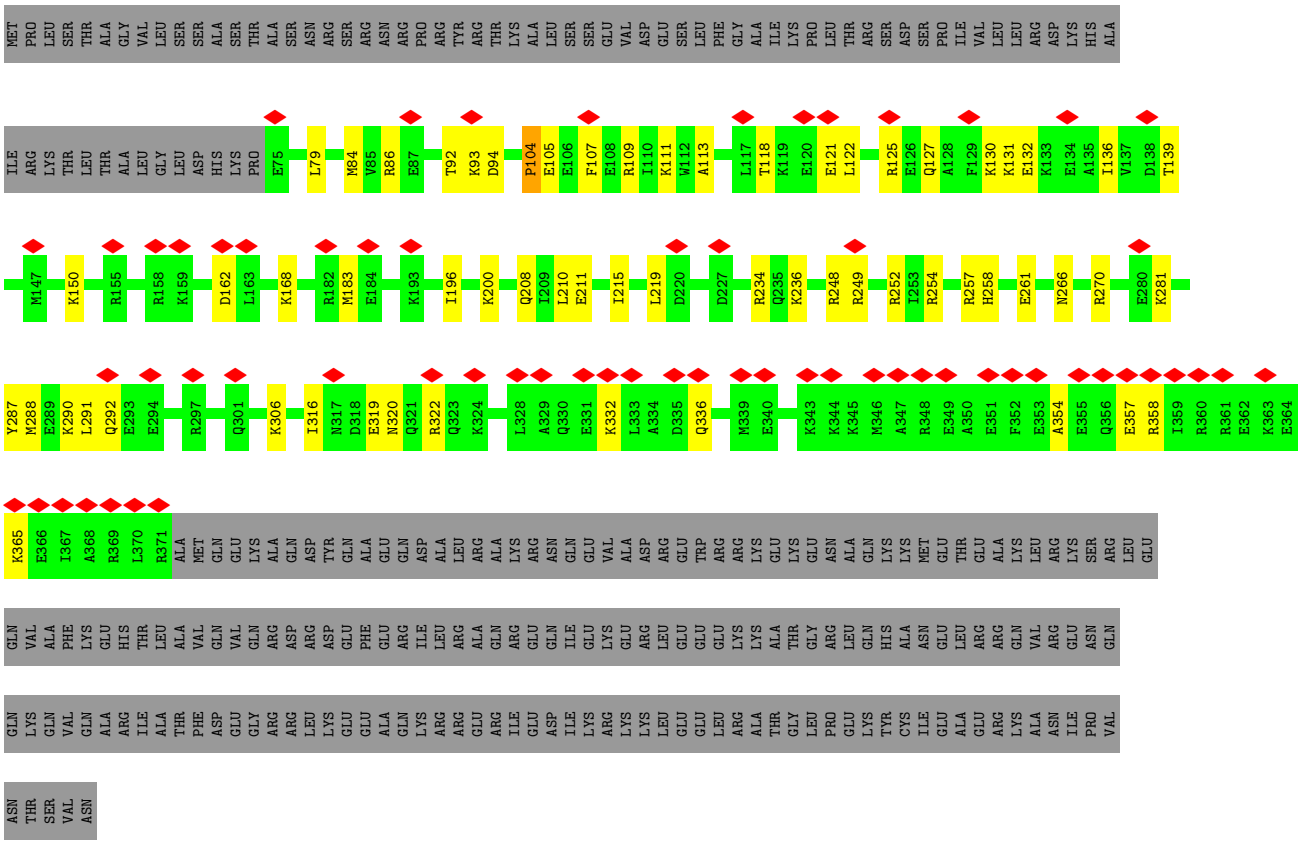




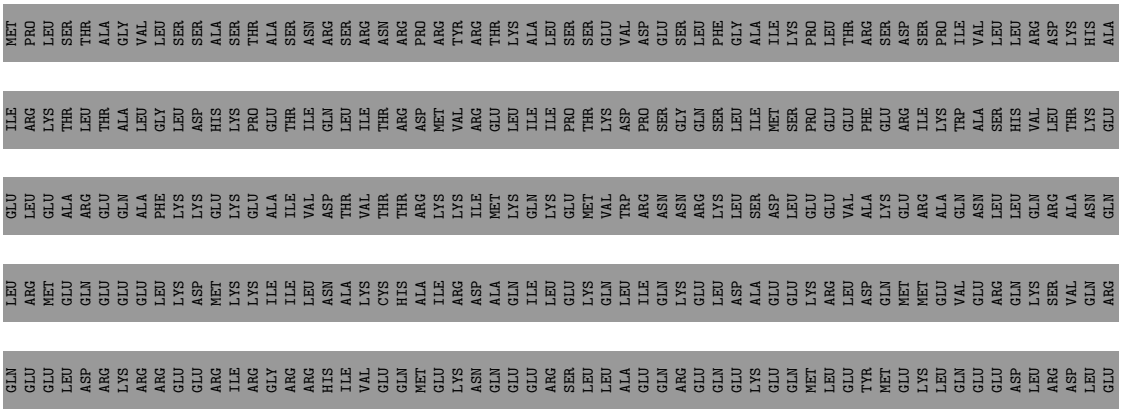


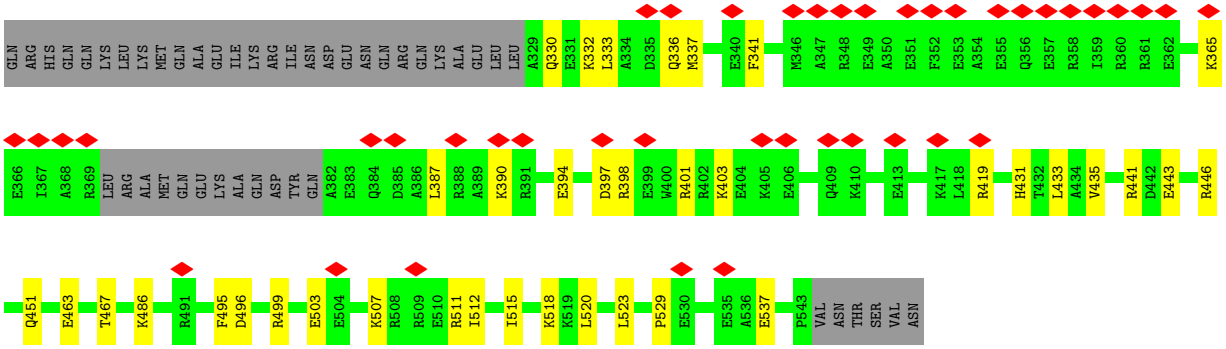
• Molecule 59: Cilia- and flagella-associated protein 45





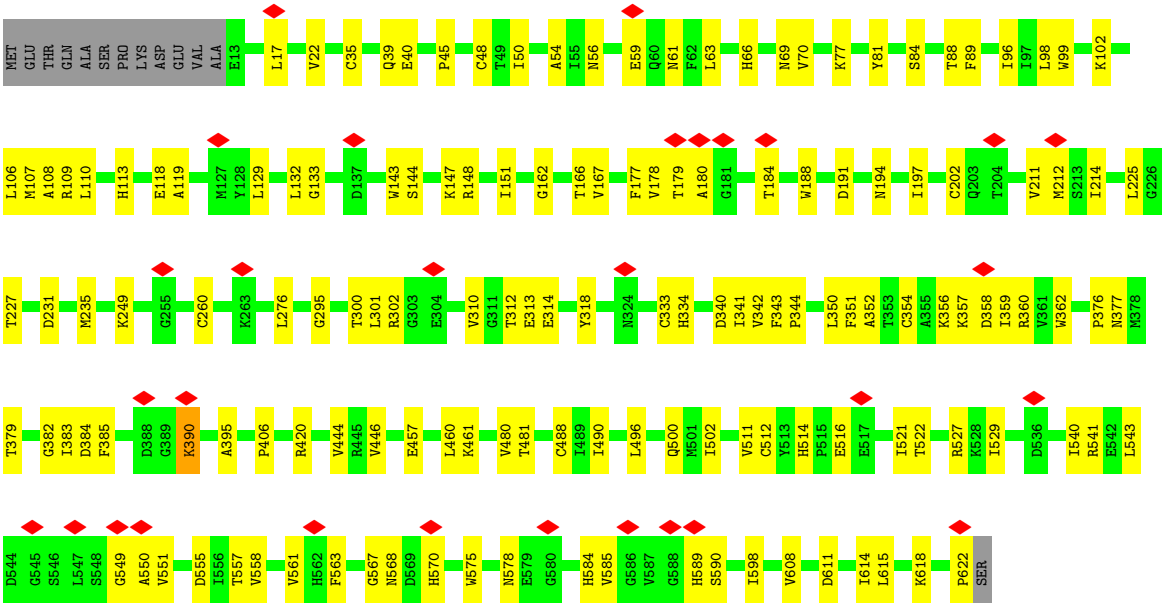
• Molecule 59: Cilia- and flagella-associated protein 45





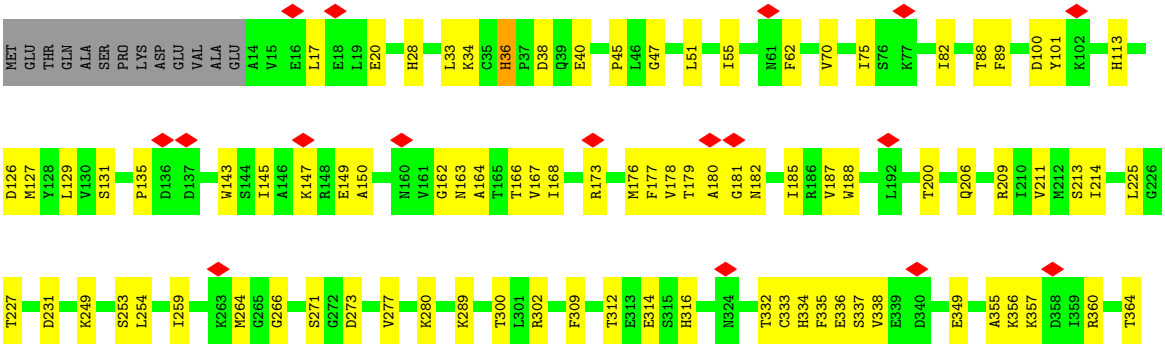
• Molecule 60: Cilia- and flagella-associated protein 52

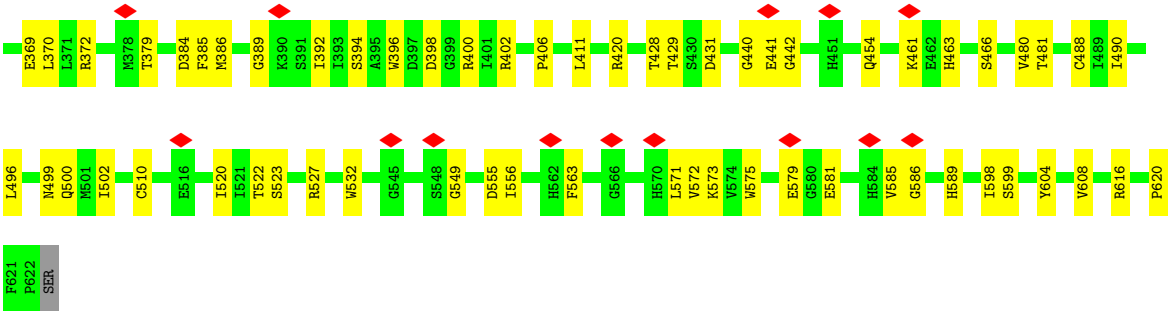
Chain e:



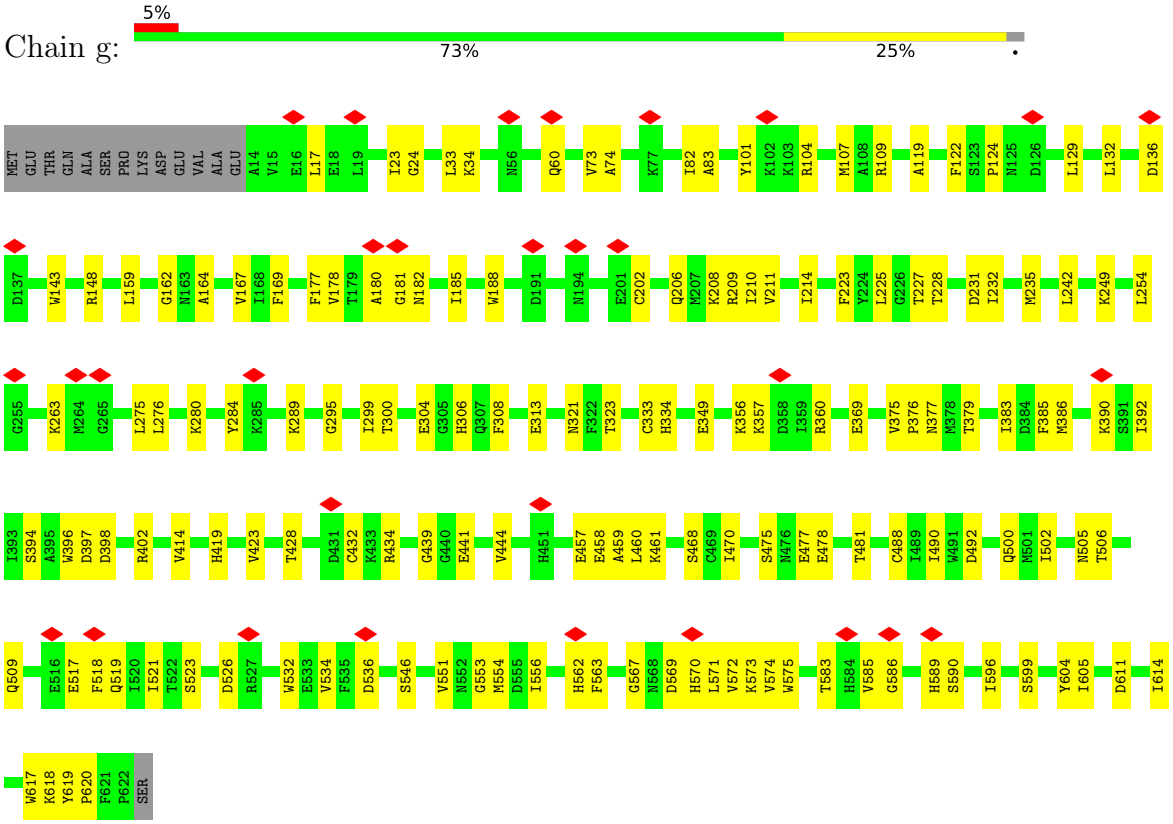
• Molecule 60: Cilia- and flagella-associated protein 52

Chain f:

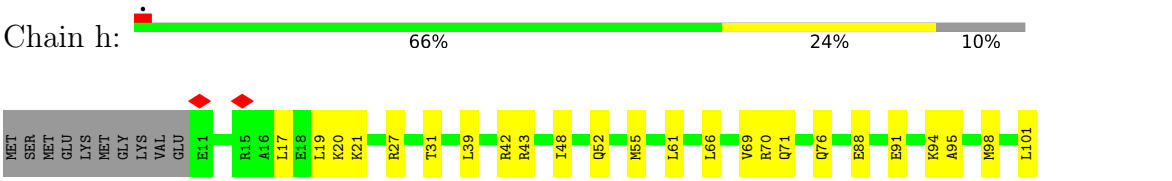




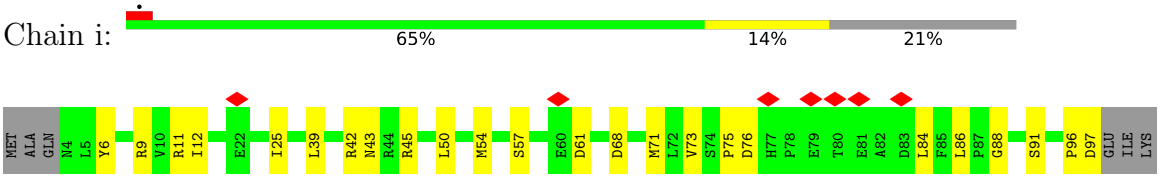
• Molecule 60: Cilia- and flagella-associated protein 52

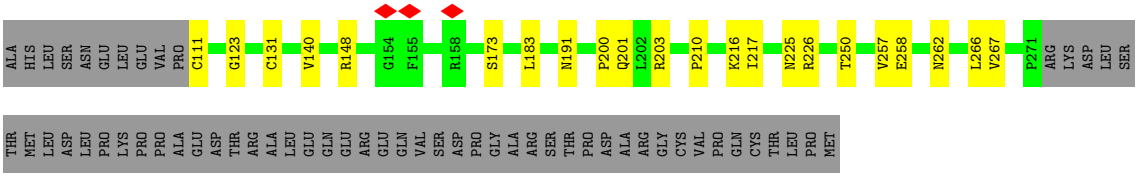


• Molecule 61: Cilia- and flagella-associated protein 141



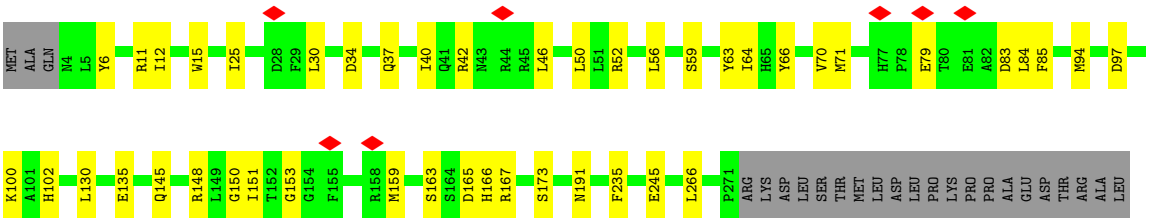
• Molecule 62: Cilia- and flagella-associated protein 161

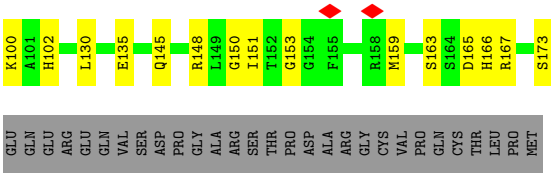




• Molecule 62: Cilia- and flagella-associated protein 161

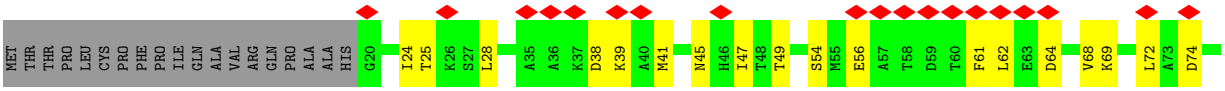
Chain j:

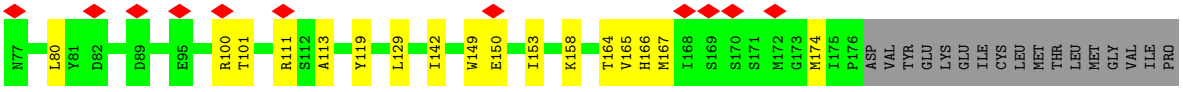




• Molecule 63: Dual specificity phosphatase 21

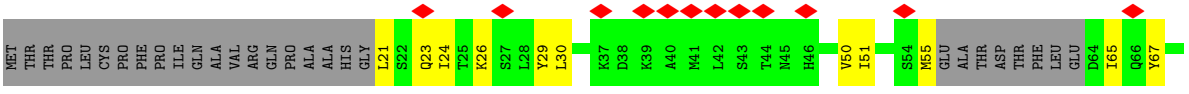
Chain k:

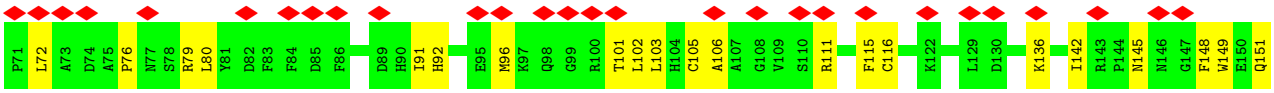


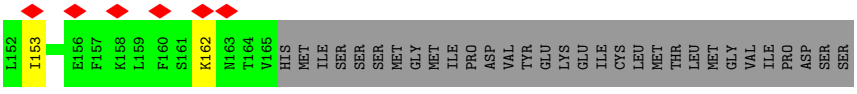


• Molecule 63: Dual specificity phosphatase 21

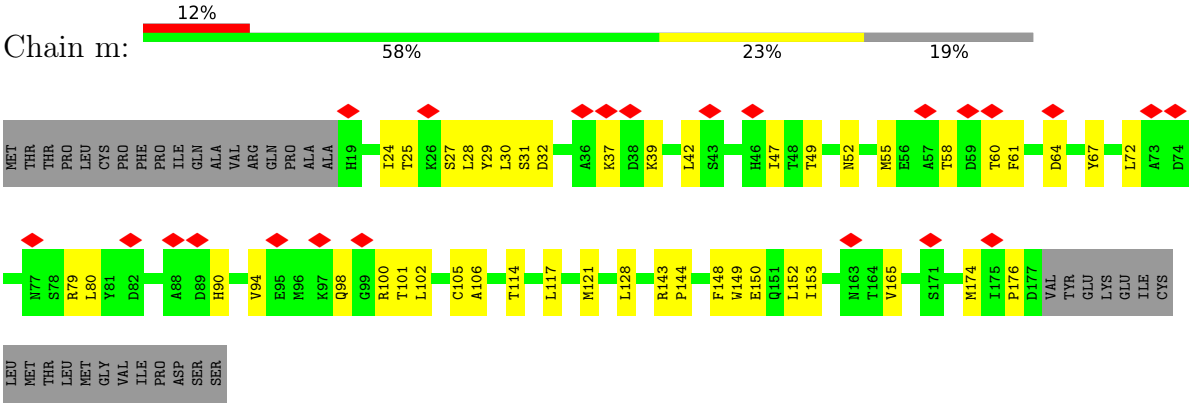
Chain l:



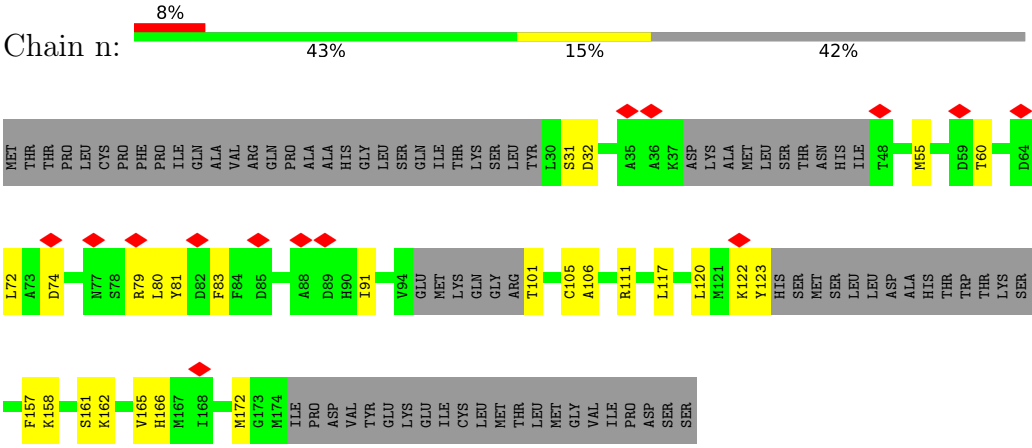




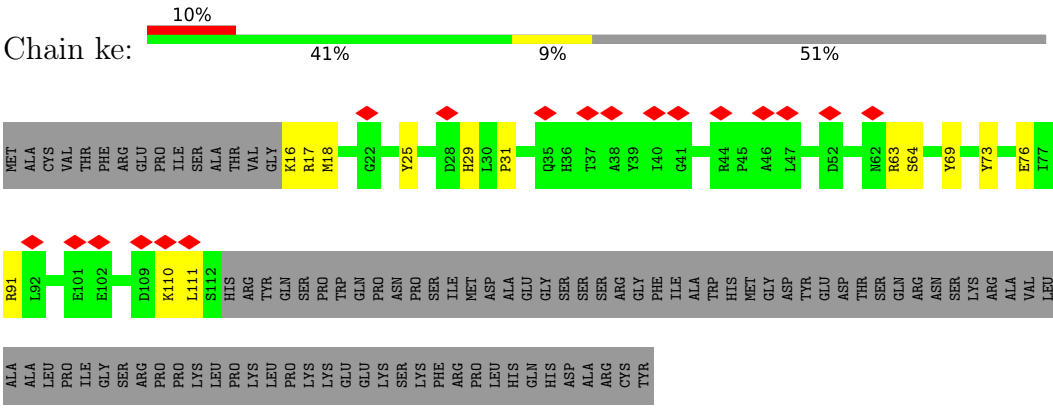
• Molecule 63: Dual specificity phosphatase 21



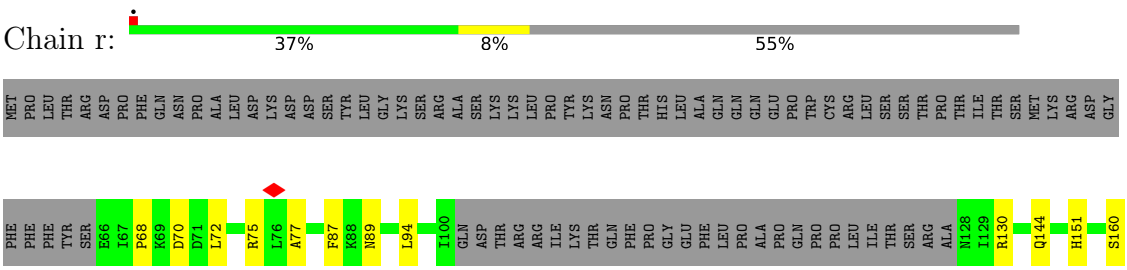
• Molecule 63: Dual specificity phosphatase 21

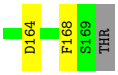


• Molecule 64: Uncharacterized protein C4orf45 homolog



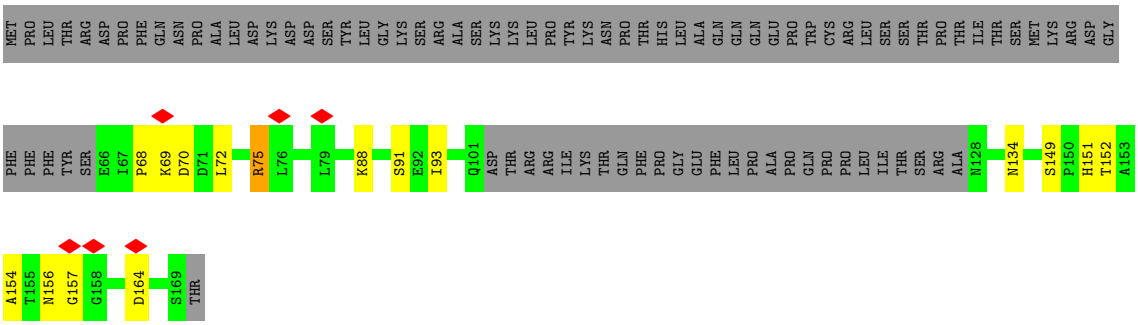
• Molecule 65: Cilia- and flagella-associated protein 276





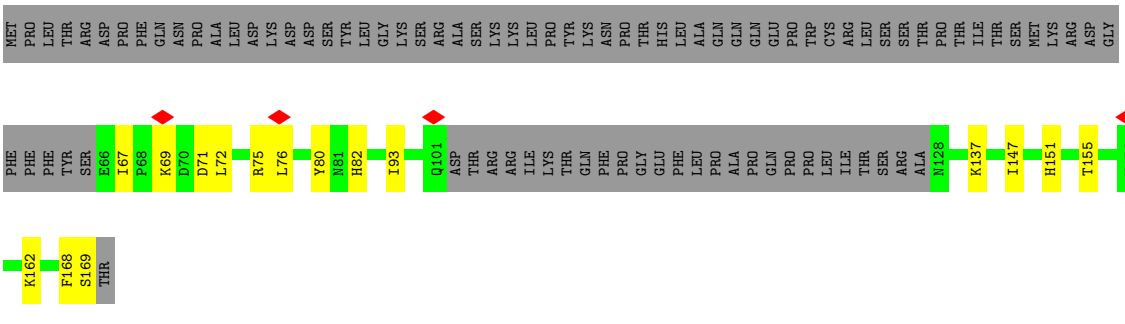
• Molecule 65: Cilia- and flagella-associated protein 276

Chain s:



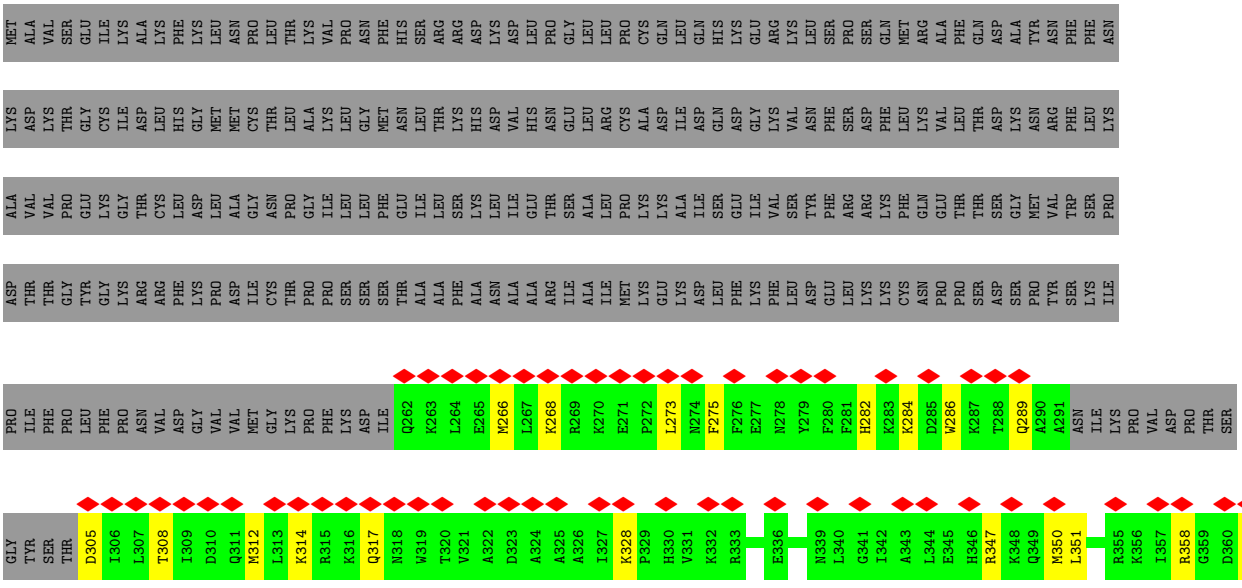
• Molecule 65: Cilia- and flagella-associated protein 276

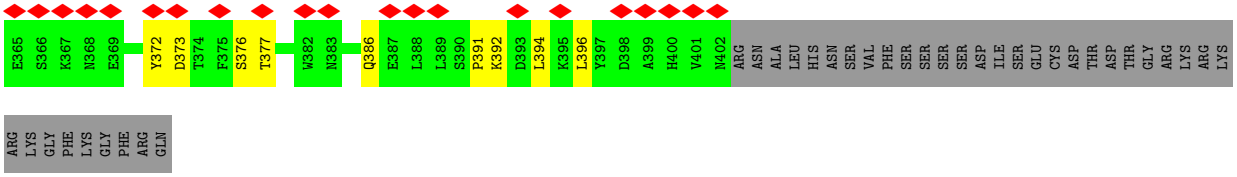
Chain t:



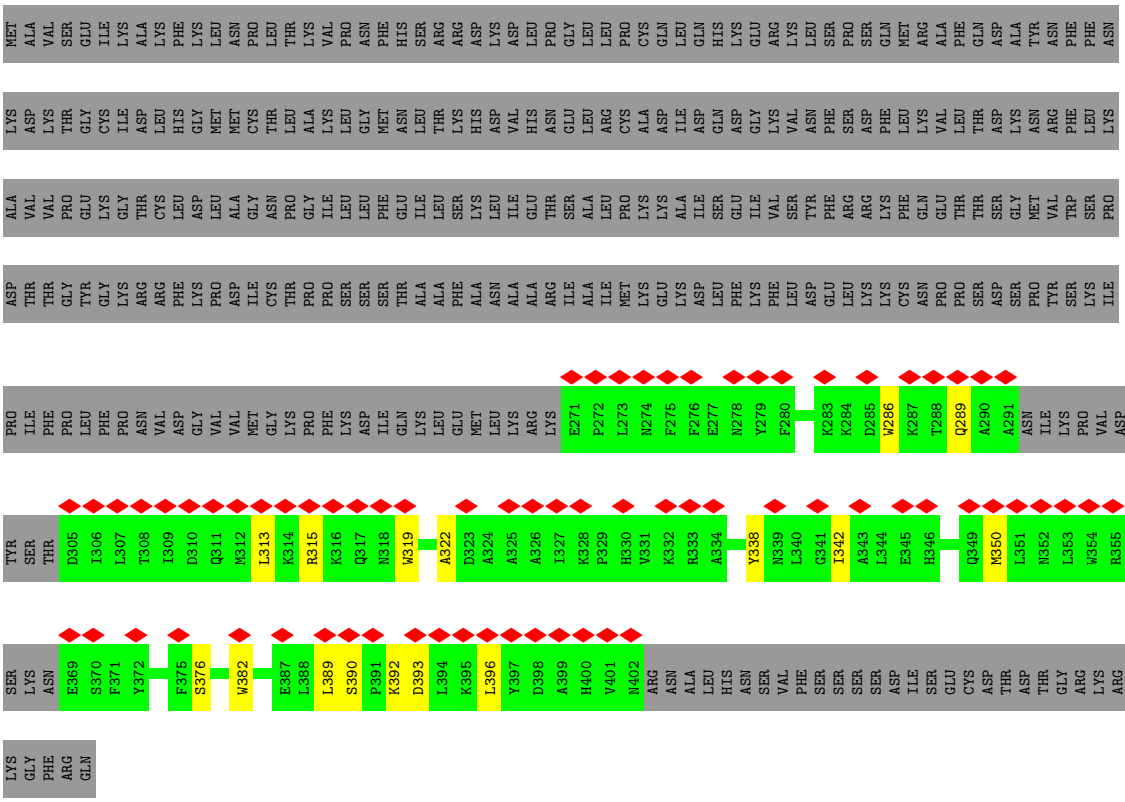
• Molecule 66: EF-hand calcium-binding domain-containing protein 3

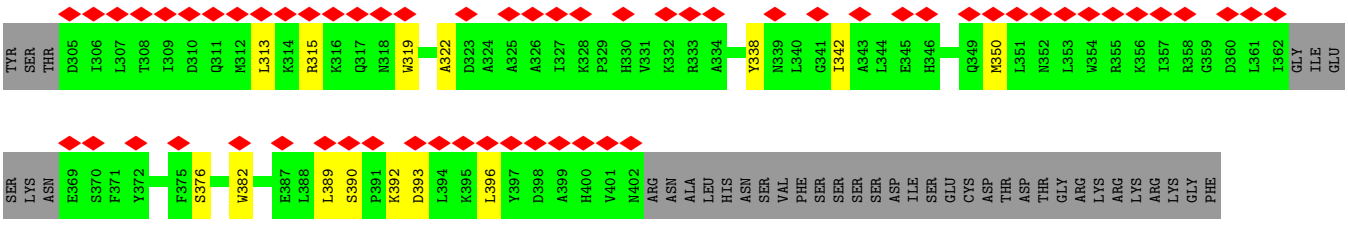
Chain u:



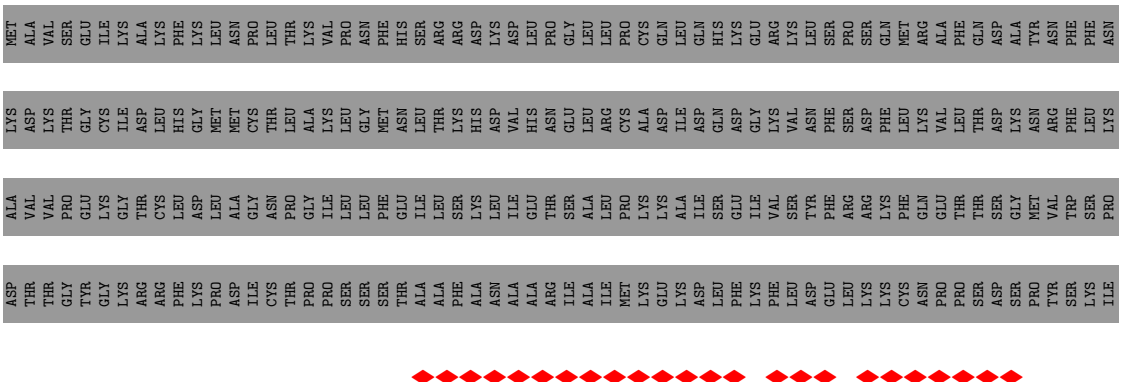


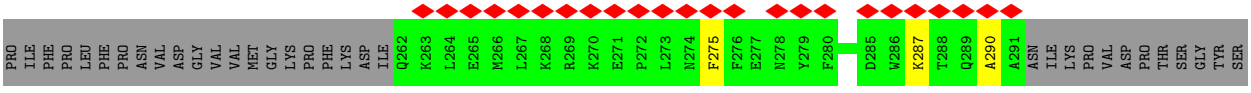
• Molecule 66: EF-hand calcium-binding domain-containing protein 3

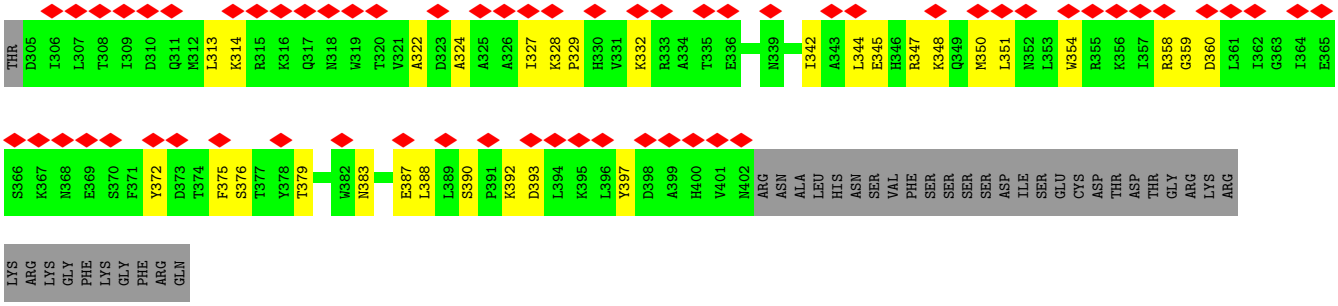




• Molecule 66: EF-hand calcium-binding domain-containing protein 3






THR D305 I306 L307 T308 I309 D310 Q311 M312 L313 K314 R315 K316 Q317 N318 W319 T320 V321 A322 D323 A324 A325 A326 I327 K328 P329 H330 V331 K332 R333 A334 T335 E336 N339 I342 A343 L344 E345 H346 R347 K348 Q349 M350 L351 N352 L353 W354 R355 K356 I357 R358 G359 D360 L361 I362 G363 I364 E365
S366 K367 N368 E369 S370 F371 Y372 D373 T374 F375 S376 T377 Y378 T379 W382 N383 E387 L388 L389 S390 P391 K392 D393 L394 K395 L396 Y397 D398 A399 H400 V401 N402 ARG ASN ALA LEU HIS ASN SER VAL PHE SER SER SER SER ASP ILE SER GLU CYS ASP THR ASP THR GLY ARG LYS ARG
LYS ARG LYS GLY PHE LYS GLY PHE ARG GLN

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	34083	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	2.294	Depositor
Minimum map value	0.000	Depositor
Average map value	0.014	Depositor
Map value standard deviation	0.078	Depositor
Recommended contour level	0.2	Depositor
Map size (Å)	699.552, 699.552, 699.552	wwPDB
Map dimensions	672, 672, 672	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.041, 1.041, 1.041	Depositor

5 Model quality

5.1 Standard geometry

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

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	0	0.22	0/337	0.41	0/452
1	V	0.33	0/1525	0.64	1/2064 (0.0%)
2	0A	0.33	0/1276	0.68	2/1721 (0.1%)
2	0C	0.29	0/1276	0.74	4/1721 (0.2%)
2	0E	0.34	0/1284	0.67	0/1731
2	0G	0.24	0/1276	0.46	0/1721
2	0W	0.23	0/1276	0.50	0/1721
2	0Y	0.31	0/1276	0.67	0/1721
2	0a	0.34	0/1276	0.73	0/1721
2	0c	0.42	0/1276	0.87	2/1721 (0.1%)
2	0e	0.21	0/1268	0.48	0/1711
2	0g	0.30	0/1276	0.78	2/1721 (0.1%)
2	0i	0.51	2/1276 (0.2%)	1.00	7/1721 (0.4%)
2	0k	0.38	1/1276 (0.1%)	0.77	0/1721
2	CT	0.39	0/1284	0.77	2/1731 (0.1%)
2	CU	0.35	0/1268	0.74	6/1711 (0.4%)
2	CV	0.36	0/1276	0.75	1/1721 (0.1%)
2	CX	0.32	0/1276	0.78	2/1721 (0.1%)
2	CY	0.35	0/1276	0.67	1/1721 (0.1%)
2	CZ	0.27	0/1276	0.58	0/1721
2	Ca	0.35	0/1276	0.78	4/1721 (0.2%)
2	Cb	0.34	0/1276	0.79	3/1721 (0.2%)
2	Cc	0.29	0/1276	0.66	2/1721 (0.1%)
2	Cd	0.58	1/1276 (0.1%)	0.97	6/1721 (0.3%)
2	Ce	0.23	0/1268	0.50	1/1711 (0.1%)
2	Cf	0.27	0/1268	0.59	0/1711
2	Cg	0.24	0/1276	0.63	3/1721 (0.2%)
2	Ch	0.31	0/1276	0.64	0/1721
2	Ci	0.32	0/1276	0.62	0/1721
2	Cj	0.29	0/1268	0.67	0/1711
2	Ck	0.33	0/1276	0.76	4/1721 (0.2%)
3	1	0.32	1/1740 (0.1%)	0.72	6/2356 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	2	0.23	0/2074	0.54	0/2806
3	x	0.28	0/2074	0.58	1/2806 (0.0%)
4	3	0.27	0/1498	0.58	0/2007
4	y	0.25	0/1498	0.58	2/2007 (0.1%)
4	z	0.23	0/1498	0.60	0/2007
5	A	0.31	0/346	0.62	0/460
5	B	0.34	0/773	0.71	1/1046 (0.1%)
5	C	0.24	0/773	0.55	0/1046
6	A0	0.36	0/1054	0.79	3/1436 (0.2%)
6	BN	0.29	0/638	0.81	1/871 (0.1%)
7	A1	0.62	2/1891 (0.1%)	0.92	7/2580 (0.3%)
7	A2	0.31	0/402	0.85	0/549
7	A3	0.19	0/1199	0.63	0/1665
7	A4	0.21	0/542	0.67	0/747
7	A5	0.24	0/761	0.72	1/1056 (0.1%)
7	A6	0.32	0/380	0.85	1/518 (0.2%)
7	A7	0.40	0/1786	0.89	0/2434
7	A8	0.39	0/1322	0.91	7/1799 (0.4%)
7	A9	0.27	0/914	0.56	0/1249
7	Au	0.30	0/555	0.85	4/757 (0.5%)
7	Av	0.35	0/1161	0.81	6/1578 (0.4%)
7	Aw	0.25	0/1047	0.60	1/1429 (0.1%)
7	Ay	0.57	2/1462 (0.1%)	0.93	7/1986 (0.4%)
7	Az	0.40	0/322	0.71	0/439
8	AA	0.26	0/3490	0.52	0/4740
8	AC	0.24	0/3505	0.55	2/4760 (0.0%)
8	AE	0.22	0/3505	0.48	0/4760
8	AG	0.24	0/3505	0.51	0/4760
8	AI	0.23	0/3505	0.48	0/4760
8	AK	0.26	0/3505	0.50	1/4760 (0.0%)
8	AM	0.25	0/3498	0.53	3/4750 (0.1%)
8	BA	0.23	0/3431	0.54	2/4660 (0.0%)
8	BC	0.26	0/3492	0.55	2/4742 (0.0%)
8	BE	0.26	0/3439	0.53	1/4670 (0.0%)
8	BG	0.29	1/3498 (0.0%)	0.55	3/4750 (0.1%)
8	BI	0.28	0/3433	0.59	2/4662 (0.0%)
8	BK	0.37	2/3484 (0.1%)	0.62	4/4731 (0.1%)
8	BM	0.27	0/3439	0.54	1/4670 (0.0%)
8	CA	0.23	0/3484	0.51	0/4732
8	CC	0.23	0/3492	0.51	2/4742 (0.0%)
8	CE	0.21	0/3492	0.46	0/4742
8	CG	0.72	8/3477 (0.2%)	0.80	10/4721 (0.2%)
8	CI	0.39	2/3492 (0.1%)	0.65	5/4742 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	CK	0.25	0/3492	0.50	0/4742
8	CM	0.22	0/3492	0.50	1/4742 (0.0%)
8	DA	0.26	0/3025	0.58	1/4100 (0.0%)
8	DC	0.26	0/3425	0.54	1/4651 (0.0%)
8	DE	0.49	3/3425 (0.1%)	0.76	5/4651 (0.1%)
8	DG	0.24	0/3446	0.55	2/4680 (0.0%)
8	DI	0.60	3/3424 (0.1%)	0.85	6/4649 (0.1%)
8	DK	0.25	0/3418	0.57	3/4641 (0.1%)
8	DM	0.24	0/3418	0.54	2/4641 (0.0%)
8	EC	0.29	0/3468	0.58	1/4708 (0.0%)
8	EE	0.23	0/3498	0.51	1/4750 (0.0%)
8	EG	0.24	0/3484	0.55	0/4731
8	EI	0.24	0/3477	0.52	0/4721
8	EK	0.22	0/3489	0.52	0/4737
8	EM	0.24	0/3425	0.52	0/4651
8	FC	0.26	0/3433	0.55	0/4662
8	FE	0.29	1/3398 (0.0%)	0.55	2/4613 (0.0%)
8	FG	0.26	0/3439	0.56	1/4670 (0.0%)
8	FI	0.27	0/3399	0.61	2/4615 (0.0%)
8	FK	0.24	0/3425	0.52	1/4650 (0.0%)
8	FM	0.25	0/3431	0.58	2/4658 (0.0%)
8	GC	0.26	0/3498	0.56	1/4750 (0.0%)
8	GE	0.29	2/3446 (0.1%)	0.58	5/4680 (0.1%)
8	GG	0.28	0/3460	0.56	2/4699 (0.0%)
8	GI	0.24	0/3474	0.53	1/4717 (0.0%)
8	GK	0.24	0/3439	0.52	0/4669
8	GM	0.27	0/3498	0.55	3/4750 (0.1%)
8	HC	0.23	0/3433	0.51	1/4662 (0.0%)
8	HE	0.25	0/3433	0.54	3/4662 (0.1%)
8	HG	0.25	0/3446	0.52	0/4680
8	HI	0.22	0/3438	0.51	0/4669
8	HK	0.29	0/3446	0.56	1/4680 (0.0%)
8	HM	0.21	0/3469	0.48	0/4710
8	HO	0.27	0/3101	0.54	1/4203 (0.0%)
8	IC	0.25	0/3460	0.53	1/4699 (0.0%)
8	IE	0.23	0/3439	0.50	0/4670
8	IG	0.22	0/3498	0.53	1/4750 (0.0%)
8	II	0.26	0/3447	0.55	0/4681
8	IK	0.32	0/3477	0.60	8/4721 (0.2%)
8	IM	0.23	0/3484	0.52	0/4731
8	IO	0.28	2/3424 (0.1%)	0.55	0/4649
8	JC	0.22	0/3458	0.48	1/4696 (0.0%)
8	JE	0.23	0/3439	0.51	1/4670 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	JG	0.21	0/3425	0.46	0/4651
8	JI	0.24	0/3433	0.50	0/4662
8	JK	0.22	0/3492	0.48	1/4742 (0.0%)
8	JM	0.22	0/3439	0.48	0/4670
8	KC	0.22	0/3465	0.48	0/4705
8	KE	0.23	0/3447	0.49	0/4681
8	KG	0.25	0/3437	0.48	0/4667
8	KI	0.21	0/3425	0.46	2/4651 (0.0%)
8	KK	0.23	0/3447	0.50	1/4681 (0.0%)
8	KM	0.21	0/3459	0.48	0/4696
8	KO	0.20	0/3302	0.49	0/4480
8	LC	0.23	0/3505	0.48	0/4760
8	LE	0.23	0/3542	0.47	1/4810 (0.0%)
8	LG	0.24	0/3505	0.50	1/4760 (0.0%)
8	LI	0.21	0/3542	0.46	0/4810
8	LK	0.22	0/3505	0.48	1/4760 (0.0%)
8	LM	0.20	0/3480	0.45	0/4726
8	MC	0.22	0/3498	0.47	0/4750
8	ME	0.24	0/3433	0.51	2/4662 (0.0%)
8	MG	0.22	0/3453	0.50	0/4689
8	MI	0.24	0/3445	0.53	1/4678 (0.0%)
8	MK	0.26	0/3505	0.52	0/4760
8	MM	0.27	0/3484	0.53	2/4732 (0.0%)
8	NA	0.28	0/3409	0.59	4/4630 (0.1%)
8	NC	0.24	0/3419	0.51	0/4643
8	NE	0.27	0/3439	0.54	0/4670
8	NG	0.21	0/3439	0.46	0/4670
8	NI	0.26	0/3433	0.54	2/4662 (0.0%)
8	NK	0.27	0/3433	0.59	2/4662 (0.0%)
8	OA	0.23	0/3425	0.51	0/4652
8	OC	0.23	0/3433	0.51	0/4662
8	OE	0.24	0/3454	0.53	0/4691
8	OG	0.29	0/3451	0.57	1/4686 (0.0%)
8	OI	0.24	0/3454	0.56	0/4691
8	OK	0.24	0/3441	0.55	1/4673 (0.0%)
8	PA	0.27	0/3439	0.59	3/4671 (0.1%)
8	PC	0.25	0/3461	0.59	0/4699
8	PE	0.58	2/3447 (0.1%)	0.86	9/4681 (0.2%)
8	PG	0.23	0/3460	0.57	1/4699 (0.0%)
8	PI	0.26	0/3417	0.56	0/4641
8	PK	0.23	0/3431	0.53	1/4659 (0.0%)
8	PM	0.27	0/3445	0.60	2/4678 (0.0%)
8	QA	0.46	2/3423 (0.1%)	0.71	5/4649 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	QC	0.60	5/3425 (0.1%)	0.74	8/4651 (0.2%)
8	QE	0.26	0/3439	0.57	1/4670 (0.0%)
8	QG	0.27	0/3447	0.59	3/4681 (0.1%)
8	QI	0.30	1/3425 (0.0%)	0.60	2/4651 (0.0%)
8	QK	0.36	2/3439 (0.1%)	0.69	7/4670 (0.1%)
8	QM	0.25	0/3445	0.58	0/4678
8	RA	0.26	0/3431	0.60	1/4660 (0.0%)
8	RC	0.27	1/3454 (0.0%)	0.54	0/4691
8	RE	0.30	0/3433	0.59	2/4662 (0.0%)
8	RG	0.26	0/3452	0.57	1/4688 (0.0%)
8	RI	0.30	0/3452	0.65	3/4688 (0.1%)
8	RK	0.48	2/3460 (0.1%)	0.70	5/4699 (0.1%)
8	RM	0.50	2/3424 (0.1%)	0.74	7/4649 (0.2%)
8	SA	0.24	0/3425	0.57	2/4652 (0.0%)
8	SC	0.30	0/3438	0.58	1/4668 (0.0%)
8	SE	0.32	0/3447	0.63	0/4680
8	SG	0.30	0/3446	0.58	0/4680
8	SI	0.32	0/3416	0.66	2/4639 (0.0%)
8	SK	0.27	0/3454	0.55	0/4691
8	SM	0.26	1/3439 (0.0%)	0.57	1/4670 (0.0%)
8	TC	0.26	0/3433	0.55	1/4662 (0.0%)
8	TE	0.27	0/3454	0.58	0/4691
8	TG	0.25	0/3431	0.54	0/4659
8	TI	0.30	0/3439	0.59	2/4670 (0.0%)
8	TK	0.28	0/3447	0.57	0/4681
8	TM	0.26	0/3439	0.57	2/4670 (0.0%)
8	UC	0.26	0/3447	0.56	1/4681 (0.0%)
8	UE	0.25	0/3447	0.53	2/4681 (0.0%)
8	UG	0.32	2/3451 (0.1%)	0.55	0/4686
8	UI	0.26	0/3447	0.54	0/4681
8	UK	0.25	1/3439 (0.0%)	0.55	1/4670 (0.0%)
8	UM	0.23	0/3433	0.52	1/4662 (0.0%)
8	VC	0.27	0/3477	0.58	1/4721 (0.0%)
8	VE	0.22	0/3441	0.53	1/4671 (0.0%)
8	VG	0.28	1/3498 (0.0%)	0.55	2/4750 (0.0%)
8	VI	0.22	0/3426	0.48	0/4652
8	VK	0.28	0/3484	0.55	0/4731
8	VM	0.25	0/3453	0.51	1/4689 (0.0%)
8	WC	0.59	2/3484 (0.1%)	0.81	6/4731 (0.1%)
8	WE	0.50	4/3437 (0.1%)	0.78	8/4667 (0.2%)
8	WG	0.24	0/3477	0.54	0/4721
8	WI	0.26	0/3433	0.55	1/4662 (0.0%)
8	WK	0.25	0/3484	0.56	5/4731 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	WM	0.27	0/3439	0.58	1/4670 (0.0%)
9	AB	0.23	0/3500	0.48	0/4742
9	AD	0.24	0/3500	0.50	1/4742 (0.0%)
9	AF	0.26	0/3500	0.52	1/4742 (0.0%)
9	AH	0.25	0/3500	0.53	1/4742 (0.0%)
9	AJ	0.23	0/3500	0.49	1/4742 (0.0%)
9	AL	0.25	0/3458	0.52	1/4687 (0.0%)
9	BB	0.29	0/3423	0.61	5/4638 (0.1%)
9	BD	0.24	0/3423	0.52	3/4638 (0.1%)
9	BF	0.32	2/3436 (0.1%)	0.60	5/4656 (0.1%)
9	BH	0.31	2/3431 (0.1%)	0.59	4/4649 (0.1%)
9	BJ	0.26	0/3431	0.53	0/4649
9	BL	0.29	0/3415	0.60	2/4628 (0.0%)
9	CB	0.25	0/3423	0.53	0/4638
9	CD	0.27	0/3414	0.53	1/4626 (0.0%)
9	CF	0.24	0/3423	0.52	0/4638
9	CH	0.25	0/3423	0.55	4/4638 (0.1%)
9	CJ	0.24	0/3423	0.55	2/4638 (0.0%)
9	CL	0.22	0/3415	0.49	0/4628
9	DB	0.25	0/3423	0.55	1/4638 (0.0%)
9	DD	0.27	1/3423 (0.0%)	0.59	2/4638 (0.0%)
9	DF	0.24	0/3423	0.53	1/4638 (0.0%)
9	DH	0.27	0/3423	0.56	0/4638
9	DJ	0.26	0/3423	0.60	0/4638
9	DL	0.22	0/3415	0.51	0/4628
9	DN	0.28	1/3102 (0.0%)	0.57	1/4201 (0.0%)
9	EB	0.31	2/3423 (0.1%)	0.60	3/4638 (0.1%)
9	ED	0.28	0/3423	0.59	4/4638 (0.1%)
9	EF	0.25	0/3423	0.54	1/4638 (0.0%)
9	EH	0.64	3/3431 (0.1%)	0.74	7/4649 (0.2%)
9	EJ	0.30	1/3423 (0.0%)	0.56	2/4638 (0.0%)
9	EL	0.24	0/3415	0.51	2/4628 (0.0%)
9	EN	0.22	0/3423	0.52	1/4638 (0.0%)
9	FB	0.32	2/3423 (0.1%)	0.61	3/4638 (0.1%)
9	FD	0.24	0/3431	0.58	3/4649 (0.1%)
9	FF	0.24	0/3423	0.51	1/4638 (0.0%)
9	FH	0.28	0/3436	0.59	1/4656 (0.0%)
9	FJ	0.30	0/3423	0.61	7/4638 (0.2%)
9	FL	0.21	0/3415	0.49	0/4628
9	FN	0.25	0/3436	0.55	3/4656 (0.1%)
9	GB	0.23	0/3436	0.51	1/4656 (0.0%)
9	GD	0.24	0/3431	0.52	0/4649
9	GF	0.24	0/3436	0.53	0/4656

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
9	GH	0.25	0/3436	0.50	0/4656
9	GJ	0.24	0/3436	0.54	1/4656 (0.0%)
9	GL	0.27	0/3415	0.57	1/4628 (0.0%)
9	GN	0.24	0/3431	0.52	1/4649 (0.0%)
9	HB	0.24	0/3423	0.53	1/4638 (0.0%)
9	HD	0.28	0/3431	0.56	3/4649 (0.1%)
9	HF	0.27	0/3423	0.55	1/4638 (0.0%)
9	HH	0.22	0/3431	0.46	0/4649
9	HJ	0.27	0/3436	0.57	3/4656 (0.1%)
9	HL	0.22	0/3415	0.50	0/4628
9	HN	0.25	0/3431	0.51	0/4649
9	IB	0.35	0/2949	0.69	2/3989 (0.1%)
9	ID	0.24	0/3431	0.52	2/4649 (0.0%)
9	IF	0.24	0/3431	0.51	1/4649 (0.0%)
9	IH	0.22	0/3423	0.49	0/4638
9	IJ	0.26	0/3431	0.55	1/4649 (0.0%)
9	IL	0.24	0/3423	0.52	1/4638 (0.0%)
9	IN	0.25	0/3423	0.57	1/4638 (0.0%)
9	JB	0.25	0/3423	0.52	0/4638
9	JD	0.23	0/3431	0.47	0/4649
9	JF	0.22	0/3423	0.49	0/4638
9	JH	0.23	0/3423	0.49	0/4638
9	JJ	0.24	0/3423	0.49	0/4638
9	JL	0.26	0/3423	0.55	2/4638 (0.0%)
9	JN	0.20	0/3423	0.43	0/4638
9	KB	0.25	0/3232	0.49	0/4380
9	KD	0.23	0/3443	0.48	1/4666 (0.0%)
9	KF	0.23	0/3431	0.49	0/4649
9	KH	0.25	0/3443	0.51	0/4666
9	KJ	0.22	0/3423	0.48	1/4638 (0.0%)
9	KL	0.46	3/3443 (0.1%)	0.80	6/4666 (0.1%)
9	KN	0.22	0/3436	0.47	0/4656
9	LB	0.21	0/3509	0.47	1/4754 (0.0%)
9	LD	0.23	0/3431	0.52	2/4649 (0.0%)
9	LF	0.24	0/3500	0.46	0/4742
9	LH	0.19	0/3436	0.44	0/4656
9	LJ	0.23	0/3509	0.47	1/4754 (0.0%)
9	LL	0.21	0/3423	0.40	0/4638
9	LN	0.19	0/3509	0.44	0/4754
9	MB	0.22	0/3423	0.45	0/4638
9	MD	0.23	0/3443	0.46	0/4666
9	MF	0.22	0/3443	0.47	0/4666
9	MH	0.21	0/3443	0.43	0/4666

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
9	MJ	0.26	0/3423	0.53	5/4638 (0.1%)
9	ML	0.24	1/3443 (0.0%)	0.49	1/4666 (0.0%)
9	MN	0.20	0/3443	0.44	1/4666 (0.0%)
9	N0	0.23	0/3414	0.53	2/4626 (0.0%)
9	NB	0.30	1/3423 (0.0%)	0.61	6/4638 (0.1%)
9	ND	0.24	0/3431	0.55	2/4649 (0.0%)
9	NF	0.25	0/3423	0.54	2/4638 (0.0%)
9	NH	0.35	2/3436 (0.1%)	0.63	4/4656 (0.1%)
9	NJ	0.25	0/3436	0.55	1/4656 (0.0%)
9	NL	0.26	0/3414	0.59	7/4626 (0.2%)
9	O0	0.28	0/3142	0.59	2/4253 (0.0%)
9	OB	0.25	0/3431	0.54	1/4649 (0.0%)
9	OD	0.25	0/3401	0.54	1/4608 (0.0%)
9	OF	0.27	0/3414	0.53	0/4626
9	OH	0.25	0/3436	0.57	1/4656 (0.0%)
9	OJ	0.29	0/3431	0.58	3/4649 (0.1%)
9	OL	0.27	0/3401	0.57	1/4608 (0.0%)
9	PB	0.25	0/3431	0.58	2/4649 (0.0%)
9	PD	0.29	0/3431	0.58	0/4649
9	PF	0.65	4/3431 (0.1%)	0.81	5/4649 (0.1%)
9	PH	0.26	0/3431	0.52	0/4649
9	PJ	0.23	0/3436	0.53	0/4656
9	PL	0.30	0/3415	0.64	6/4628 (0.1%)
9	QB	0.24	0/3436	0.56	2/4656 (0.0%)
9	QD	0.28	0/3431	0.64	7/4649 (0.2%)
9	QF	0.59	4/3431 (0.1%)	0.91	12/4649 (0.3%)
9	QH	0.25	1/3423 (0.0%)	0.54	1/4638 (0.0%)
9	QJ	0.26	0/3423	0.60	3/4638 (0.1%)
9	QL	0.31	0/3423	0.64	3/4638 (0.1%)
9	RB	0.32	0/3436	0.64	3/4656 (0.1%)
9	RD	0.52	3/3431 (0.1%)	0.78	10/4649 (0.2%)
9	RF	0.51	4/3431 (0.1%)	0.80	7/4649 (0.2%)
9	RH	0.64	6/3436 (0.2%)	0.73	6/4656 (0.1%)
9	RJ	0.63	5/3436 (0.1%)	0.80	9/4656 (0.2%)
9	RL	0.52	4/3423 (0.1%)	0.77	12/4638 (0.3%)
9	SB	0.38	2/3436 (0.1%)	0.63	1/4656 (0.0%)
9	SD	0.28	0/3431	0.60	1/4649 (0.0%)
9	SF	0.27	0/3436	0.59	0/4656
9	SH	0.40	2/3436 (0.1%)	0.65	7/4656 (0.2%)
9	SJ	0.31	1/3436 (0.0%)	0.63	5/4656 (0.1%)
9	SL	0.24	0/3423	0.55	2/4638 (0.0%)
9	TB	0.31	0/3431	0.65	4/4649 (0.1%)
9	TD	0.26	0/3431	0.56	1/4649 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
9	TF	0.27	0/3436	0.58	1/4656 (0.0%)
9	TH	0.30	0/3436	0.60	3/4656 (0.1%)
9	TJ	0.31	0/3436	0.59	0/4656
9	TL	0.27	0/3423	0.58	2/4638 (0.0%)
9	UB	0.30	0/3423	0.65	2/4638 (0.0%)
9	UD	0.30	0/3431	0.65	4/4649 (0.1%)
9	UF	0.25	0/3431	0.54	1/4649 (0.0%)
9	UH	0.24	0/3431	0.55	1/4649 (0.0%)
9	UJ	0.33	2/3431 (0.1%)	0.63	3/4649 (0.1%)
9	UL	0.24	0/3423	0.55	0/4638
9	UN	0.27	0/3431	0.54	0/4649
9	VB	0.28	0/3423	0.59	0/4638
9	VD	0.28	0/3423	0.57	0/4638
9	VF	0.66	5/3423 (0.1%)	0.85	9/4638 (0.2%)
9	VH	0.28	0/3436	0.60	4/4656 (0.1%)
9	VJ	0.29	0/3423	0.59	0/4638
9	VL	0.28	1/3423 (0.0%)	0.57	2/4638 (0.0%)
9	VN	0.29	0/3423	0.60	2/4638 (0.0%)
9	WB	0.24	0/3423	0.55	1/4638 (0.0%)
9	WD	0.24	0/3423	0.53	1/4638 (0.0%)
9	WF	0.29	2/3423 (0.1%)	0.58	4/4638 (0.1%)
9	WH	0.28	0/3423	0.55	2/4638 (0.0%)
9	WJ	0.26	0/3423	0.55	3/4638 (0.1%)
9	WL	0.27	0/3423	0.57	2/4638 (0.0%)
9	WN	0.27	0/3423	0.61	5/4638 (0.1%)
10	AP	0.22	0/949	0.46	0/1291
10	AQ	0.25	0/949	0.50	0/1291
10	AR	0.21	0/756	0.51	1/1027 (0.1%)
10	AS	0.19	0/949	0.48	0/1291
11	AT	0.37	0/2539	0.61	2/3368 (0.1%)
11	AU	0.37	0/1868	0.63	0/2471
12	AV	0.26	0/2964	0.55	2/4002 (0.0%)
12	AW	0.29	0/3011	0.58	3/4065 (0.1%)
13	Aa	0.27	0/4935	0.58	1/6639 (0.0%)
13	Ab	0.33	2/5047 (0.0%)	0.66	7/6797 (0.1%)
13	Ac	0.24	0/5061	0.57	0/6815
13	Ad	0.25	0/4337	0.63	5/5847 (0.1%)
14	Al	0.32	0/348	0.66	0/475
14	Am	0.23	0/348	0.61	0/475
14	An	0.24	0/348	0.56	0/475
14	Ao	0.33	0/598	0.77	2/812 (0.2%)
14	B7	0.26	0/704	0.60	0/952
14	BY	0.25	0/889	0.66	1/1198 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
14	BZ	0.27	0/889	0.64	2/1198 (0.2%)
14	Ba	0.27	0/1641	0.58	0/2220
14	Bb	0.28	0/1641	0.67	2/2220 (0.1%)
14	Bc	0.27	0/1628	0.55	0/2202
14	Bd	0.18	0/889	0.43	0/1198
14	Be	0.22	0/889	0.50	0/1198
14	CN	0.34	0/688	0.61	0/930
14	CO	0.26	0/715	0.72	0/966
15	Ap	0.26	0/1140	0.58	0/1547
15	Aq	0.25	0/794	0.50	0/1079
15	Ar	0.25	0/1300	0.57	1/1767 (0.1%)
16	At	0.30	0/800	0.65	0/1092
16	Ax	0.34	1/956 (0.1%)	0.70	1/1309 (0.1%)
17	B0	0.29	0/380	0.72	0/519
17	B1	0.30	0/312	0.58	0/428
17	B2	0.28	0/317	0.60	0/430
17	B3	0.14	0/205	0.36	0/274
17	B4	0.17	0/313	0.50	0/422
17	B8	0.19	0/328	0.48	0/441
17	B9	0.19	0/319	0.48	0/438
17	CQ	0.19	0/380	0.48	0/519
17	CR	0.18	0/328	0.44	0/450
17	CS	0.24	0/319	0.64	0/438
18	B5	0.27	0/2053	0.59	1/2757 (0.0%)
18	B6	0.23	0/2087	0.49	0/2804
18	By	0.28	0/1338	0.63	0/1792
18	Bz	0.34	2/2053 (0.1%)	0.60	1/2757 (0.0%)
19	BO	0.47	3/1848 (0.2%)	0.80	5/2489 (0.2%)
19	BP	0.33	0/3450	0.62	1/4641 (0.0%)
19	BQ	0.29	0/3030	0.57	0/4067
19	BR	0.34	0/3524	0.65	2/4742 (0.0%)
20	BS	0.25	0/1229	0.63	1/1679 (0.1%)
20	BT	0.29	0/1941	0.66	1/2637 (0.0%)
21	BU	0.22	0/310	0.59	0/411
21	BV	0.24	0/3125	0.39	0/4176
21	Bi	0.15	0/356	0.26	0/475
21	Bj	0.33	0/2051	0.55	1/2740 (0.0%)
21	Bk	0.31	0/1459	0.52	1/1949 (0.1%)
22	BW	0.27	0/1648	0.58	0/2254
22	BX	0.32	0/436	0.78	1/589 (0.2%)
23	Bf	0.30	0/522	0.60	2/707 (0.3%)
23	Bg	0.28	0/981	0.63	0/1334
24	Bh	0.23	0/802	0.50	0/1094

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
26	Bq	0.29	0/816	0.64	2/1125 (0.2%)
26	Bu	0.20	0/1219	0.53	2/1664 (0.1%)
27	Br	0.39	0/1386	0.64	0/1839
27	Bs	0.37	1/3070 (0.0%)	0.64	2/4068 (0.0%)
28	C0	0.28	0/857	0.51	1/1154 (0.1%)
28	C2	0.26	0/3358	0.49	1/4529 (0.0%)
28	C3	0.27	0/3358	0.47	0/4529
28	C4	0.27	0/2819	0.49	0/3802
28	C5	0.33	0/1860	0.52	1/2502 (0.0%)
28	C6	0.23	0/361	0.47	0/490
28	C7	0.25	0/3501	0.47	0/4723
28	C8	0.26	0/3493	0.48	0/4711
28	C9	0.30	0/3125	0.47	0/4209
28	DO	0.26	0/1061	0.49	0/1436
28	F2	0.26	0/3462	0.44	2/4675 (0.0%)
28	F3	0.29	0/3452	0.49	0/4661
28	F4	0.31	0/3178	0.51	4/4281 (0.1%)
28	F5	0.24	0/879	0.41	0/1183
28	F6	0.32	0/1072	0.51	0/1456
29	C1	0.35	2/2741 (0.1%)	0.59	1/3684 (0.0%)
29	Cz	0.46	1/2461 (0.0%)	0.72	6/3304 (0.2%)
29	D0	0.34	0/573	0.74	1/770 (0.1%)
29	D1	0.32	0/2962	0.59	2/3975 (0.1%)
29	D2	0.30	0/3204	0.49	0/4302
29	D3	0.33	0/3195	0.59	3/4291 (0.1%)
29	D4	0.33	0/3187	0.61	1/4280 (0.0%)
29	D5	0.38	1/2990 (0.0%)	0.68	3/4011 (0.1%)
29	D6	0.31	0/1227	0.57	0/1646
29	D7	0.30	0/608	0.59	0/818
29	D8	0.29	0/3204	0.52	1/4302 (0.0%)
29	D9	0.33	0/1324	0.62	0/1776
29	DP	0.35	0/1688	0.61	0/2261
29	DQ	0.31	0/2431	0.60	1/3258 (0.0%)
29	DR	0.33	0/2170	0.57	1/2910 (0.0%)
29	DS	0.33	0/2136	0.61	3/2864 (0.1%)
29	DT	0.34	1/1391 (0.1%)	0.71	3/1872 (0.2%)
29	DU	0.28	0/2526	0.53	0/3388
29	DV	0.31	0/2531	0.58	0/3395
29	DW	0.35	0/2531	0.69	4/3395 (0.1%)
29	DX	0.35	0/1911	0.61	2/2561 (0.1%)
29	EA	0.30	0/3298	0.54	1/4431 (0.0%)
29	EO	0.29	0/3290	0.52	0/4420
29	EP	0.41	1/2973 (0.0%)	0.69	6/3989 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
29	EQ	0.37	0/1470	0.73	1/1976 (0.1%)
29	ER	0.23	0/364	0.41	0/487
30	CW	0.23	0/1354	0.53	0/1838
31	Cl	0.26	0/1003	0.56	0/1368
32	Cm	0.31	0/3304	0.54	2/4451 (0.0%)
32	Cn	0.30	0/3326	0.51	1/4480 (0.0%)
32	Co	0.35	0/2878	0.51	1/3873 (0.0%)
32	Cp	0.34	0/1708	0.61	0/2298
33	Cq	0.28	0/3471	0.47	0/4682
33	Cr	0.32	1/3429 (0.0%)	0.48	1/4623 (0.0%)
33	Cs	0.31	0/1517	0.53	0/2044
33	Ct	0.29	0/3183	0.49	0/4289
33	Cu	0.29	0/3091	0.53	0/4165
33	Cv	0.32	1/3480 (0.0%)	0.51	2/4693 (0.0%)
33	Cw	0.32	0/3480	0.58	1/4693 (0.0%)
33	Cx	0.31	0/1632	0.54	0/2200
33	Cy	0.34	0/369	0.53	0/497
34	D	0.35	0/554	0.72	0/753
35	DY	0.31	0/313	0.53	0/420
35	DZ	0.20	0/422	0.50	0/565
35	Da	0.26	0/1129	0.44	1/1531 (0.1%)
35	Ee	0.19	0/400	0.39	0/543
36	Db	0.22	0/465	0.64	0/632
36	Dc	0.28	0/457	0.67	0/621
36	Dd	0.21	0/420	0.55	0/572
37	De	0.34	0/558	0.62	0/749
38	Df	0.22	0/1099	0.56	0/1500
38	Dg	0.26	0/1014	0.51	1/1376 (0.1%)
38	Dh	0.28	0/901	0.61	1/1224 (0.1%)
39	Di	0.22	0/651	0.55	0/875
39	Dj	0.19	0/829	0.48	0/1115
39	Dk	0.22	0/829	0.55	0/1115
39	Dl	0.23	0/829	0.59	0/1115
40	Dm	0.30	0/747	0.54	0/1012
41	Dn	0.27	0/476	0.61	0/637
42	E	0.85	4/1203 (0.3%)	1.19	10/1625 (0.6%)
42	F	0.29	0/3776	0.71	3/5106 (0.1%)
43	E1	0.23	0/1714	0.55	1/2351 (0.0%)
43	E2	0.21	0/1714	0.53	1/2351 (0.0%)
43	E3	0.28	0/1707	0.59	2/2340 (0.1%)
43	E4	0.28	0/1271	0.59	1/1744 (0.1%)
44	ES	0.29	0/3537	0.48	0/4765
44	ET	0.26	0/2311	0.44	0/3120

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
44	EU	0.29	0/2725	0.54	4/3664 (0.1%)
44	EV	0.33	0/3537	0.52	2/4765 (0.0%)
44	EW	0.32	0/2644	0.57	0/3569
44	EX	0.31	0/3617	0.54	2/4879 (0.0%)
44	EY	0.32	0/2586	0.55	1/3481 (0.0%)
44	EZ	0.28	0/3672	0.52	2/4954 (0.0%)
45	G	0.30	0/2380	0.69	2/3223 (0.1%)
46	H	0.37	0/860	0.60	0/1149
46	o	0.35	0/3439	0.70	5/4555 (0.1%)
47	I	0.20	0/3783	0.46	0/5118
47	X	0.29	2/3788 (0.1%)	0.59	5/5125 (0.1%)
47	Y	0.52	3/3840 (0.1%)	0.65	6/5196 (0.1%)
48	J	0.27	0/974	0.63	0/1315
48	K	0.23	0/974	0.52	0/1315
48	L	0.84	2/914 (0.2%)	1.05	4/1235 (0.3%)
48	M	0.39	0/746	0.82	4/1007 (0.4%)
49	K1	0.33	0/1019	0.73	0/1379
50	L1	0.33	0/1121	0.73	0/1514
50	L2	0.24	0/763	0.66	0/1031
51	N	0.27	0/1207	0.64	0/1631
51	O	0.27	0/1169	0.62	1/1581 (0.1%)
52	P	0.37	0/897	0.85	3/1219 (0.2%)
53	Q	0.25	0/955	0.56	1/1300 (0.1%)
54	R	0.22	0/1190	0.60	1/1603 (0.1%)
54	S	0.23	0/1190	0.55	1/1603 (0.1%)
54	T	0.27	0/1193	0.65	0/1606
54	U	0.25	0/843	0.64	0/1138
55	W	0.24	0/1017	0.61	2/1365 (0.1%)
56	XG	0.21	0/1544	0.51	1/2082 (0.0%)
56	XH	0.24	0/1544	0.53	0/2082
56	XI	0.24	0/1544	0.54	1/2082 (0.0%)
56	XJ	0.19	0/1544	0.49	0/2082
56	XK	0.29	0/1544	0.59	0/2082
56	XL	0.19	0/1535	0.46	0/2071
56	XM	0.31	0/1525	0.77	7/2056 (0.3%)
57	YG	0.27	0/1748	0.59	0/2360
57	YH	0.25	0/1802	0.51	0/2435
57	YI	0.25	0/1802	0.52	1/2435 (0.0%)
57	YJ	0.30	1/1802 (0.1%)	0.57	1/2435 (0.0%)
57	YK	0.26	0/1802	0.58	1/2435 (0.0%)
57	YL	0.39	0/1802	0.73	5/2435 (0.2%)
58	Z	0.20	0/1031	0.44	0/1372
58	p	0.35	0/466	0.53	1/616 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
58	q	0.20	0/841	0.48	0/1121
59	a	0.47	1/1570 (0.1%)	0.81	4/2088 (0.2%)
59	b	0.34	0/2828	0.70	1/3738 (0.0%)
59	c	0.33	0/2540	0.68	2/3369 (0.1%)
59	d	0.37	0/1738	0.66	1/2298 (0.0%)
60	e	0.25	0/4821	0.61	3/6527 (0.0%)
60	f	0.24	0/4812	0.56	0/6515
60	g	0.25	0/4812	0.59	4/6515 (0.1%)
61	h	0.25	0/801	0.49	0/1073
62	i	0.26	0/2105	0.50	0/2851
62	j	0.25	0/2211	0.50	0/2997
63	k	0.23	0/1275	0.55	1/1727 (0.1%)
63	l	0.22	0/1124	0.57	1/1522 (0.1%)
63	m	0.19	0/1294	0.50	0/1753
63	n	0.29	0/928	0.66	1/1255 (0.1%)
64	ke	0.23	0/820	0.52	0/1109
65	r	0.25	0/630	0.57	0/849
65	s	0.30	0/639	0.50	0/861
65	t	0.23	0/639	0.44	0/861
66	u	0.23	0/1107	0.46	0/1491
66	v	0.23	0/982	0.50	0/1327
66	w	0.23	0/1107	0.48	0/1491
All	All	0.30	158/1475221 (0.0%)	0.58	847/1997530 (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	V	0	1
2	0C	0	3
2	0E	0	2
2	0Y	0	1
2	0a	0	1
2	0c	0	1
2	0g	0	2
2	0i	0	3
2	CT	0	2
2	CY	0	1
2	Cb	0	3
2	Ci	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
6	A0	0	2
7	A5	0	1
7	A7	0	3
7	A8	0	4
7	A9	0	1
7	Aw	0	1
7	Ay	0	2
8	AG	0	1
8	AI	0	1
8	BE	0	1
8	BM	0	1
8	CK	0	1
8	EI	0	1
8	EK	0	1
8	FE	0	1
8	FK	0	1
8	GG	0	1
8	GK	0	2
8	HO	0	1
8	IC	0	1
8	IE	0	1
8	IG	0	1
8	IK	0	2
8	KE	0	1
8	KI	0	1
8	LC	0	1
8	LK	0	1
8	ME	0	1
8	MK	0	1
8	NC	0	1
8	NI	0	1
8	NK	0	1
8	OE	0	1
8	OG	0	1
8	PA	0	1
8	PC	0	1
8	PI	0	1
8	QA	0	1
8	RA	0	1
8	RI	0	2
8	RK	0	1
8	SG	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
8	SK	0	1
8	TI	0	2
8	UE	0	1
8	WI	0	1
9	DH	0	1
9	ED	0	1
9	EJ	0	1
9	EL	0	2
9	FB	0	2
9	FH	0	1
9	FJ	0	1
9	GD	0	1
9	GF	0	2
9	GH	0	1
9	GJ	0	1
9	GL	0	1
9	HB	0	1
9	HD	0	1
9	HJ	0	1
9	IN	0	1
9	MD	0	1
9	MF	0	1
9	NF	0	1
9	NL	0	1
9	O0	0	1
9	OL	0	1
9	PH	0	1
9	PJ	0	2
9	RF	0	1
9	RH	0	3
9	RL	0	1
9	SD	0	1
9	TL	0	1
9	UJ	0	1
9	UL	0	1
9	VB	0	1
9	WJ	0	1
11	AT	0	1
13	Aa	0	1
13	Ab	0	1
13	Ac	0	2
13	Ad	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
14	Al	0	1
14	BY	0	1
14	Bb	0	1
15	Ap	0	1
15	Ar	0	1
18	Bz	0	1
19	BR	0	1
21	Bj	0	1
28	F2	0	1
28	F6	0	1
29	D4	0	2
29	DP	0	1
29	EP	0	1
32	Co	0	1
33	Ct	0	1
42	E	0	1
42	F	0	2
43	E2	0	1
43	E4	0	1
44	ES	0	1
44	EX	0	2
45	G	0	2
46	H	0	1
46	o	0	1
47	I	0	2
47	Y	0	1
48	J	0	1
49	K1	0	1
50	L1	0	3
51	O	0	1
56	XI	0	1
57	YL	0	1
59	a	0	2
59	b	0	3
59	d	0	2
60	f	0	1
65	s	0	1
All	All	0	172

All (158) bond length outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	PF	80	PRO	CG-CD	-30.41	0.47	1.50
8	WC	268	PRO	CG-CD	-28.60	0.53	1.50
9	EH	268	PRO	CG-CD	-27.70	0.56	1.50
9	RJ	268	PRO	CG-CD	-26.93	0.59	1.50
9	VF	261	PRO	CB-CG	26.51	2.82	1.49
8	PE	261	PRO	CG-CD	-26.15	0.61	1.50
9	RH	268	PRO	CG-CD	-26.01	0.62	1.50
47	Y	365	PRO	CG-CD	-24.79	0.66	1.50
8	CG	183	GLU	C-N	24.32	1.57	1.34
8	RM	63	PRO	CG-CD	-23.44	0.71	1.50
48	L	106	PRO	CG-CD	-23.44	0.71	1.50
9	QF	272	PRO	CG-CD	-23.11	0.72	1.50
8	DE	268	PRO	CG-CD	-22.67	0.73	1.50
9	KL	220	PRO	CG-CD	-22.36	0.74	1.50
8	DI	298	PRO	CG-CD	-21.49	0.77	1.50
8	RK	63	PRO	CG-CD	-21.19	0.78	1.50
8	CG	184	PRO	CG-CD	-21.03	0.79	1.50
8	QC	274	PRO	CG-CD	-20.87	0.79	1.50
8	DI	298	PRO	CB-CG	20.55	2.52	1.49
7	A1	101	PRO	CG-CD	-20.50	0.81	1.50
42	E	734	PRO	CG-CD	-20.23	0.81	1.50
8	QA	364	PRO	CG-CD	-19.84	0.83	1.50
9	RF	268	PRO	CG-CD	-19.69	0.83	1.50
8	WE	268	PRO	CG-CD	-18.62	0.87	1.50
8	QC	274	PRO	CB-CG	17.73	2.38	1.49
8	CG	184	PRO	CB-CG	17.46	2.37	1.49
42	E	734	PRO	CB-CG	16.63	2.32	1.49
9	RD	268	PRO	CG-CD	-16.62	0.94	1.50
8	CI	268	PRO	CG-CD	-16.37	0.95	1.50
9	VF	261	PRO	CG-CD	-16.28	0.95	1.50
29	Cz	391	PRO	CG-CD	-15.06	0.99	1.50
7	Ay	139	PRO	CG-CD	-15.05	0.99	1.50
2	Cd	119	PRO	CG-CD	-14.94	1.11	1.51
9	RL	173	PRO	CG-CD	-14.69	1.00	1.50
8	PE	261	PRO	CB-CG	14.54	2.22	1.49
8	BK	32	PRO	CG-CD	-14.49	1.01	1.50
9	RD	268	PRO	CB-CG	14.20	2.20	1.49
9	RL	358	PRO	CG-CD	-14.09	1.02	1.50
9	QF	272	PRO	CB-CG	13.86	2.19	1.49
9	RJ	268	PRO	CB-CG	13.69	2.18	1.49
9	RH	268	PRO	CB-CG	12.55	2.12	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	EH	268	PRO	CB-CG	12.44	2.11	1.49
9	EH	268	PRO	N-CD	12.35	1.65	1.47
9	NH	357	PRO	CG-CD	-11.77	1.10	1.50
8	QK	89	PRO	CG-CD	-11.65	1.11	1.50
9	RD	268	PRO	N-CD	11.58	1.64	1.47
8	WE	268	PRO	CB-CG	11.51	2.07	1.49
9	SH	358	PRO	CG-CD	-11.46	1.11	1.50
9	RH	268	PRO	N-CD	11.32	1.63	1.47
13	Ab	454	PRO	CG-CD	-11.31	1.12	1.50
9	RF	268	PRO	CB-CG	11.18	2.05	1.49
8	CG	184	PRO	CA-CB	-10.87	1.35	1.53
9	VF	261	PRO	N-CA	-10.78	1.36	1.47
47	Y	365	PRO	N-CD	10.65	1.62	1.47
8	QC	274	PRO	CA-CB	-10.35	1.39	1.53
8	BG	359	PRO	CG-CD	-10.12	1.16	1.50
9	QF	171	PRO	CG-CD	-9.88	1.17	1.50
9	VF	261	PRO	CA-CB	-9.47	1.41	1.53
7	Ay	139	PRO	N-CD	9.40	1.60	1.47
9	PF	80	PRO	CB-CG	9.28	1.96	1.49
47	Y	365	PRO	CB-CG	9.25	1.96	1.49
9	PF	79	GLY	C-N	9.02	1.45	1.34
9	BF	357	PRO	CG-CD	-8.95	1.20	1.50
19	BO	89	PRO	CG-CD	-8.81	1.20	1.50
9	RJ	268	PRO	N-CD	8.61	1.59	1.47
8	QC	274	PRO	N-CD	8.59	1.59	1.47
9	RL	358	PRO	N-CD	8.58	1.59	1.47
9	FB	171	PRO	CG-CD	-8.58	1.21	1.50
29	EP	477	LYS	CD-CE	-8.57	1.26	1.52
8	GE	307	PRO	CG-CD	-8.35	1.22	1.50
9	SH	358	PRO	N-CD	8.21	1.59	1.47
9	RL	173	PRO	N-CD	8.18	1.59	1.47
9	SB	125	GLU	CB-CG	-8.12	1.28	1.52
19	BO	89	PRO	N-CD	8.12	1.59	1.47
47	X	287	PRO	CG-CD	-8.05	1.23	1.50
8	WE	268	PRO	N-CD	7.90	1.58	1.47
2	0i	92	PRO	CG-CD	-7.86	1.24	1.50
8	WE	268	PRO	CA-CB	-7.86	1.42	1.53
3	1	145	PRO	CG-CD	-7.79	1.24	1.50
9	NB	357	PRO	CG-CD	-7.65	1.24	1.50
7	A1	101	PRO	N-CD	7.53	1.58	1.47
8	CG	184	PRO	N-CD	7.46	1.58	1.47
8	DE	268	PRO	CB-CG	7.43	1.86	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	QF	171	PRO	N-CD	7.38	1.58	1.47
9	FB	171	PRO	N-CD	7.36	1.58	1.47
9	PF	80	PRO	N-CD	7.17	1.57	1.47
8	QA	364	PRO	N-CD	7.16	1.57	1.47
29	D5	296	PRO	CG-CD	-7.14	1.26	1.50
9	RF	268	PRO	N-CD	7.04	1.57	1.47
8	RK	63	PRO	N-CD	6.89	1.57	1.47
8	RM	63	PRO	N-CD	6.87	1.57	1.47
8	VG	110	ILE	CG1-CD1	-6.77	1.25	1.51
8	WC	268	PRO	CB-CG	6.75	1.83	1.49
8	DI	298	PRO	CA-CB	-6.64	1.44	1.53
9	BF	357	PRO	N-CD	6.56	1.56	1.47
9	WF	323	MET	CG-SD	-6.49	1.64	1.80
2	0i	92	PRO	N-CD	6.36	1.56	1.47
9	KL	220	PRO	N-CA	6.31	1.54	1.47
8	BK	32	PRO	N-CD	6.25	1.56	1.47
19	BO	87	PRO	CG-CD	-6.17	1.29	1.50
42	E	734	PRO	N-CD	6.15	1.56	1.47
47	X	287	PRO	N-CD	6.14	1.56	1.47
8	IO	338	LYS	CD-CE	-6.11	1.34	1.52
9	RH	125	GLU	CG-CD	-6.10	1.36	1.52
18	Bz	100	MET	CA-CB	6.07	1.63	1.53
9	NH	357	PRO	N-CD	6.01	1.56	1.47
9	EJ	395	LEU	CG-CD1	-5.96	1.32	1.52
9	RH	125	GLU	CB-CG	-5.95	1.34	1.52
9	VF	260	PHE	C-O	5.94	1.32	1.24
8	CG	183	GLU	C-O	5.87	1.31	1.24
8	UG	313	MET	SD-CE	-5.86	1.65	1.79
2	0k	90	GLY	C-N	5.85	1.45	1.33
8	CG	184	PRO	CA-C	5.80	1.61	1.52
9	BH	357	PRO	CG-CD	-5.79	1.31	1.50
9	RJ	287	PRO	CG-CD	-5.76	1.31	1.50
8	GE	32	PRO	CG-CD	-5.73	1.31	1.50
8	QI	52	PHE	CB-CG	-5.72	1.37	1.50
9	UJ	303	CYS	CB-SG	-5.72	1.62	1.81
42	E	734	PRO	CA-CB	-5.67	1.45	1.53
8	QC	273	ALA	C-N	5.61	1.47	1.33
33	Cr	233	MET	CB-CG	-5.60	1.35	1.52
9	RF	268	PRO	CA-CB	-5.60	1.45	1.53
9	ML	122	LYS	CD-CE	-5.60	1.35	1.52
9	RH	268	PRO	N-CA	-5.53	1.40	1.47
27	Bs	213	LYS	CD-CE	-5.51	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	C1	393	LYS	CB-CG	-5.49	1.35	1.52
9	EB	243	PRO	CG-CD	-5.44	1.32	1.50
9	DD	171	PRO	CG-CD	-5.42	1.32	1.50
13	Ab	454	PRO	N-CD	5.41	1.55	1.47
8	CG	184	PRO	N-CA	-5.37	1.40	1.47
9	WF	171	PRO	CG-CD	-5.36	1.32	1.50
9	DN	58	LYS	CE-NZ	-5.35	1.33	1.49
16	Ax	146	PHE	C-N	5.35	1.39	1.34
8	CI	268	PRO	N-CD	5.30	1.55	1.47
29	C1	393	LYS	CD-CE	-5.28	1.36	1.52
8	DE	268	PRO	N-CD	5.27	1.55	1.47
9	SB	125	GLU	CG-CD	-5.26	1.38	1.52
8	QK	89	PRO	N-CD	5.26	1.55	1.47
8	UG	435	VAL	CB-CG1	-5.24	1.35	1.52
9	RJ	268	PRO	N-CA	-5.22	1.40	1.47
9	QH	323	MET	CG-SD	-5.21	1.67	1.80
9	VL	395	LEU	CG-CD1	-5.20	1.35	1.52
48	L	106	PRO	N-CD	5.19	1.55	1.47
33	Cv	355	LYS	CB-CG	-5.19	1.36	1.52
8	RC	92	LEU	CA-CB	-5.16	1.45	1.52
8	UK	183	GLU	C-N	5.12	1.39	1.34
9	EB	323	MET	CG-SD	-5.11	1.68	1.80
59	a	225	ARG	CB-CG	-5.11	1.37	1.52
8	IO	171	ILE	C-N	-5.10	1.23	1.33
9	KL	220	PRO	CA-CB	-5.10	1.47	1.53
8	FE	325	PRO	CG-CD	-5.09	1.33	1.50
9	SJ	70	PRO	CG-CD	-5.09	1.33	1.50
18	Bz	238	LYS	CG-CD	-5.07	1.37	1.52
57	YJ	194	LEU	C-N	5.06	1.41	1.33
8	SM	269	LEU	CG-CD2	-5.04	1.35	1.52
9	UJ	377	LEU	CG-CD1	-5.04	1.35	1.52
29	DT	43	PRO	CG-CD	-5.03	1.33	1.50
9	BH	357	PRO	N-CD	5.00	1.54	1.47

All (847) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	KL	220	PRO	N-CD-CG	-34.16	51.96	103.20
9	PF	80	PRO	N-CD-CG	-32.94	53.79	103.20
9	QF	272	PRO	N-CD-CG	-32.79	54.01	103.20
8	WC	268	PRO	N-CD-CG	-32.30	54.76	103.20
8	DE	268	PRO	N-CD-CG	-28.57	60.35	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	VF	261	PRO	CB-CG-CD	-28.33	15.43	106.10
48	L	106	PRO	N-CD-CG	-26.54	63.39	103.20
8	CG	184	PRO	N-CD-CG	-26.46	63.51	103.20
8	RM	63	PRO	N-CD-CG	-24.99	65.72	103.20
9	QF	272	PRO	CA-CB-CG	-24.86	57.26	104.50
8	RK	63	PRO	N-CD-CG	-23.14	68.48	103.20
47	Y	365	PRO	N-CD-CG	-23.00	68.70	103.20
8	DI	298	PRO	CB-CG-CD	-22.91	32.80	106.10
7	A1	101	PRO	N-CD-CG	-22.41	69.58	103.20
8	CG	184	PRO	CB-CG-CD	-22.25	34.88	106.10
8	PE	261	PRO	CB-CG-CD	-21.99	35.74	106.10
8	QA	364	PRO	N-CD-CG	-21.74	70.58	103.20
8	QC	274	PRO	CB-CG-CD	-21.64	36.86	106.10
8	CI	268	PRO	N-CD-CG	-21.42	71.07	103.20
9	KL	220	PRO	CA-CB-CG	-21.11	64.38	104.50
2	Cd	119	PRO	N-CD-CG	-20.83	78.80	103.80
8	DI	298	PRO	CA-CB-CG	-20.41	65.72	104.50
9	RJ	268	PRO	CB-CG-CD	-20.27	41.23	106.10
9	RF	268	PRO	N-CD-CG	-20.26	72.80	103.20
8	PE	261	PRO	N-CD-CG	-20.11	73.03	103.20
42	E	734	PRO	N-CD-CG	-20.00	73.20	103.20
8	WE	268	PRO	N-CD-CG	-19.95	73.27	103.20
9	RH	268	PRO	N-CD-CG	-19.58	73.83	103.20
9	RD	268	PRO	N-CD-CG	-19.41	74.09	103.20
29	Cz	391	PRO	N-CD-CG	-19.00	74.70	103.20
42	E	734	PRO	CB-CG-CD	-18.89	45.66	106.10
8	DE	268	PRO	CA-CB-CG	-18.48	69.39	104.50
8	DI	298	PRO	N-CD-CG	-18.46	75.51	103.20
8	WM	268	PRO	CA-N-CD	-18.36	86.30	112.00
9	VF	261	PRO	CA-CB-CG	-18.26	69.81	104.50
7	Ay	139	PRO	N-CD-CG	-18.20	75.90	103.20
8	WE	268	PRO	N-CA-CB	-18.17	84.17	103.25
8	PE	261	PRO	N-CA-CB	-17.92	86.78	101.83
42	E	734	PRO	CA-CB-CG	-17.77	70.74	104.50
8	DI	298	PRO	N-CA-CB	-17.49	84.89	103.25
8	DG	89	PRO	CA-N-CD	-17.44	87.59	112.00
9	RD	268	PRO	CB-CG-CD	-17.34	50.63	106.10
3	1	145	PRO	CA-N-CD	-17.30	87.77	112.00
8	PE	261	PRO	CA-CB-CG	-16.97	72.26	104.50
9	EH	268	PRO	CB-CG-CD	-16.90	52.03	106.10
8	QC	274	PRO	N-CD-CG	-16.83	77.95	103.20
9	RF	268	PRO	N-CA-CB	-16.46	81.69	103.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	RF	268	PRO	CB-CG-CD	-16.08	54.66	106.10
9	RL	173	PRO	N-CD-CG	-15.87	79.39	103.20
48	L	106	PRO	CA-CB-CG	-15.65	74.77	104.50
8	BK	32	PRO	N-CD-CG	-15.64	79.73	103.20
9	RL	358	PRO	N-CD-CG	-14.96	80.76	103.20
8	DI	298	PRO	CA-N-CD	-14.79	91.29	112.00
9	EH	268	PRO	N-CD-CG	-14.73	81.11	103.20
8	WE	268	PRO	CB-CG-CD	-14.54	59.59	106.10
8	WE	268	PRO	CA-CB-CG	-14.50	76.95	104.50
42	E	734	PRO	N-CA-CB	-14.49	88.04	103.25
9	RD	268	PRO	N-CA-CB	-14.47	88.06	103.25
19	BO	89	PRO	CA-N-CD	-14.36	91.90	112.00
9	RD	268	PRO	CA-N-CD	-14.20	92.12	112.00
9	NH	357	PRO	N-CD-CG	-14.11	82.04	103.20
9	RF	268	PRO	CA-CB-CG	-14.04	77.82	104.50
8	CG	184	PRO	N-CA-CB	-13.97	89.22	103.19
6	BN	201	PRO	CA-N-CD	-13.97	92.45	112.00
20	BT	54	LYS	CD-CE-NZ	-13.87	67.52	111.90
8	BG	359	PRO	N-CD-CG	-13.79	82.51	103.20
8	SI	115	VAL	N-CA-C	-13.73	99.69	111.91
9	VF	261	PRO	CB-CA-C	13.73	125.37	110.00
9	NB	357	PRO	CA-N-CD	-13.55	93.03	112.00
13	Ab	454	PRO	N-CD-CG	-13.50	82.95	103.20
47	X	287	PRO	CA-N-CD	-13.48	93.13	112.00
8	PE	261	PRO	CA-N-CD	-13.47	93.14	112.00
8	WC	268	PRO	CA-CB-CG	-13.42	79.01	104.50
8	CI	268	PRO	CA-CB-CG	-13.41	79.01	104.50
9	EH	268	PRO	N-CA-CB	-13.32	89.26	103.25
9	KL	220	PRO	N-CA-CB	-13.24	91.60	103.25
9	SH	358	PRO	N-CD-CG	-13.15	83.48	103.20
56	XM	72	LYS	CD-CE-NZ	-13.09	70.03	111.90
8	QK	89	PRO	N-CD-CG	-13.03	83.66	103.20
9	RJ	268	PRO	CA-N-CD	-13.02	93.78	112.00
9	QF	272	PRO	N-CA-CB	-13.01	93.80	102.65
9	DD	171	PRO	CA-N-CD	-12.98	93.83	112.00
2	0i	92	PRO	CA-N-CD	-12.92	93.92	112.00
9	FB	171	PRO	CA-N-CD	-12.87	93.98	112.00
9	PF	80	PRO	CA-CB-CG	-12.87	80.04	104.50
9	QF	171	PRO	CA-N-CD	-12.84	94.03	112.00
9	EB	243	PRO	CA-N-CD	-12.76	94.13	112.00
9	EH	268	PRO	CA-N-CD	-12.63	94.32	112.00
9	RJ	287	PRO	CA-N-CD	-12.59	94.37	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	QK	89	PRO	CA-N-CD	-12.57	94.41	112.00
8	DE	268	PRO	N-CA-CB	-12.49	90.14	103.25
57	YL	122	PRO	CA-N-CD	-12.45	94.58	112.00
9	RJ	268	PRO	N-CA-CB	-12.44	91.70	103.39
9	BF	357	PRO	CA-N-CD	-12.43	94.59	112.00
13	Ab	271	PRO	CA-N-CD	-12.43	94.60	112.00
9	ED	243	PRO	CA-N-CD	-12.36	94.70	112.00
8	RM	63	PRO	CA-CB-CG	-12.29	81.14	104.50
9	HD	171	PRO	CA-N-CD	-12.25	94.84	112.00
8	QK	173	PRO	CA-N-CD	-12.15	94.98	112.00
9	VF	261	PRO	CA-N-CD	-12.15	95.00	112.00
8	RK	63	PRO	CA-CB-CG	-12.12	81.48	104.50
9	RH	268	PRO	CB-CG-CD	-12.10	67.40	106.10
56	XM	178	PRO	CA-N-CD	-12.02	95.17	112.00
8	QA	364	PRO	CA-CB-CG	-11.97	81.75	104.50
9	SH	358	PRO	CA-N-CD	-11.92	95.31	112.00
8	SM	298	PRO	CA-N-CD	-11.91	95.33	112.00
29	DT	43	PRO	CA-N-CD	-11.87	95.39	112.00
9	LD	171	PRO	CA-C-N	11.80	143.36	120.94
9	LD	171	PRO	C-N-CA	11.80	143.36	120.94
59	a	104	PRO	CA-N-CD	-11.67	95.66	112.00
9	RH	268	PRO	CA-N-CD	-11.66	95.67	112.00
9	RJ	268	PRO	N-CD-CG	-11.52	85.92	103.20
9	BH	357	PRO	CA-N-CD	-11.44	95.99	112.00
8	GE	307	PRO	N-CD-CG	-11.43	86.05	103.20
9	RH	268	PRO	CA-CB-CG	-11.42	82.80	104.50
8	QC	274	PRO	CA-N-CD	-11.39	96.05	112.00
13	Ab	454	PRO	CA-CB-CG	-11.36	82.91	104.50
9	KL	171	PRO	CA-C-N	11.36	142.53	120.94
9	KL	171	PRO	C-N-CA	11.36	142.53	120.94
8	QC	274	PRO	N-CA-CB	-11.35	91.34	103.25
9	IB	261	PRO	CA-N-CD	-11.34	96.12	112.00
9	WF	171	PRO	CA-N-CD	-11.28	96.20	112.00
8	CG	184	PRO	CA-CB-CG	-11.24	83.14	104.50
29	D5	296	PRO	CA-N-CD	-11.19	96.33	112.00
9	PL	80	PRO	CA-N-CD	-11.19	96.34	112.00
8	CG	183	GLU	CA-C-N	-11.15	107.75	120.12
8	CG	183	GLU	C-N-CA	-11.15	107.75	120.12
9	BF	32	PRO	CA-N-CD	-11.03	96.56	112.00
26	Bq	27	PRO	CA-N-CD	-11.01	96.59	112.00
29	DW	43	PRO	CA-N-CD	-11.01	96.59	112.00
9	QF	171	PRO	N-CD-CG	-10.99	86.72	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	RL	358	PRO	CA-N-CD	-10.98	96.62	112.00
9	VF	261	PRO	N-CD-CG	-10.97	86.74	103.20
59	c	104	PRO	CA-N-CD	-10.93	96.70	112.00
9	RL	173	PRO	CA-N-CD	-10.92	96.72	112.00
9	NB	32	PRO	CA-N-CD	-10.91	96.72	112.00
47	Y	365	PRO	CA-CB-CG	-10.78	84.03	104.50
12	AW	247	PRO	CA-N-CD	-10.64	97.10	112.00
8	BK	32	PRO	CA-N-CD	-10.63	97.12	112.00
9	NL	357	PRO	CA-N-CD	-10.56	97.22	112.00
7	A1	101	PRO	CA-CB-CG	-10.53	84.49	104.50
8	AC	175	PRO	CA-N-CD	-10.51	97.28	112.00
9	BD	357	PRO	CA-N-CD	-10.51	97.28	112.00
9	EJ	243	PRO	CA-N-CD	-10.44	97.38	112.00
9	VN	182	PRO	CA-N-CD	-10.42	97.41	112.00
7	A1	74	PRO	CA-N-CD	-10.40	97.44	112.00
42	E	734	PRO	CA-N-CD	-10.39	97.45	112.00
9	VF	261	PRO	N-CA-CB	-10.35	91.30	102.17
2	0i	92	PRO	N-CD-CG	-10.33	87.70	103.20
2	Cd	119	PRO	CA-CB-CG	-10.32	84.39	104.00
45	G	221	PRO	CA-N-CD	-10.27	97.62	112.00
29	Cz	391	PRO	CA-CB-CG	-10.23	85.07	104.50
9	BL	32	PRO	CA-N-CD	-10.22	97.69	112.00
9	BF	357	PRO	N-CD-CG	-10.21	87.89	103.20
47	X	287	PRO	N-CD-CG	-10.16	87.96	103.20
9	BB	32	PRO	CA-N-CD	-10.14	97.81	112.00
60	e	406	PRO	CA-N-CD	-10.10	97.86	112.00
9	FD	171	PRO	CA-C-N	10.07	135.98	120.68
9	FD	171	PRO	C-N-CA	10.07	135.98	120.68
9	QF	272	PRO	CA-N-CD	-10.04	97.94	112.00
9	PF	80	PRO	CB-CG-CD	-10.04	73.98	106.10
9	CD	117	LEU	CB-CG-CD1	-9.99	80.74	110.70
9	UD	32	PRO	CA-N-CD	-9.97	98.04	112.00
8	GE	32	PRO	CA-N-CD	-9.83	98.24	112.00
9	QL	346	PRO	CA-N-CD	-9.81	98.26	112.00
9	PL	171	PRO	CA-N-CD	-9.81	98.27	112.00
9	RJ	268	PRO	CA-CB-CG	-9.81	85.87	104.50
7	Ay	139	PRO	CA-CB-CG	-9.78	85.92	104.50
9	OD	32	PRO	CA-N-CD	-9.73	98.38	112.00
19	BO	89	PRO	N-CD-CG	-9.70	88.65	103.20
9	PF	80	PRO	N-CA-CB	-9.60	93.34	103.52
9	NB	357	PRO	N-CD-CG	-9.53	88.91	103.20
13	Ab	454	PRO	N-CA-CB	-9.47	95.50	103.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	QC	274	PRO	CA-CB-CG	-9.45	86.55	104.50
8	WC	268	PRO	N-CA-CB	-9.35	92.14	103.45
18	Bz	238	LYS	CD-CE-NZ	-9.30	82.13	111.90
8	PA	173	PRO	CA-N-CD	-9.26	99.04	112.00
9	SJ	70	PRO	N-CD-CG	-9.25	89.32	103.20
9	RF	268	PRO	CB-CA-C	9.17	125.06	111.22
60	e	390	LYS	CD-CE-NZ	-9.16	82.59	111.90
6	A0	49	ARG	CG-CD-NE	9.15	132.13	112.00
8	BK	32	PRO	CA-CB-CG	-9.15	87.11	104.50
8	CI	280	LYS	CD-CE-NZ	-9.11	82.76	111.90
9	EB	323	MET	CG-SD-CE	-9.08	80.92	100.90
8	RA	89	PRO	CA-N-CD	-9.02	99.38	112.00
9	RL	173	PRO	CA-CB-CG	-9.00	87.39	104.50
9	NH	357	PRO	CA-N-CD	-8.99	99.41	112.00
2	CU	33	CYS	CA-CB-SG	8.98	135.05	114.40
8	SC	326	LYS	CD-CE-NZ	-8.90	83.43	111.90
47	Y	365	PRO	N-CA-CB	-8.84	95.66	103.35
9	KJ	171	PRO	CA-N-CD	-8.78	99.70	112.00
9	OB	122	LYS	CD-CE-NZ	-8.75	83.90	111.90
9	SJ	243	PRO	CA-N-CD	-8.72	99.79	112.00
9	BH	323	MET	CB-CG-SD	-8.56	87.02	112.70
9	RF	268	PRO	CA-N-CD	-8.55	100.02	112.00
47	Y	365	PRO	CA-N-CD	-8.55	100.03	112.00
9	TD	358	PRO	CA-N-CD	-8.55	100.03	112.00
9	WN	70	PRO	CA-N-CD	-8.54	100.04	112.00
7	Ay	139	PRO	CA-N-CD	-8.47	100.14	112.00
8	RM	89	PRO	CA-N-CD	-8.44	100.19	112.00
9	FB	171	PRO	N-CD-CG	-8.40	90.60	103.20
8	TM	175	PRO	CA-N-CD	-8.40	100.24	112.00
9	EH	268	PRO	CA-CB-CG	-8.39	88.56	104.50
29	D5	296	PRO	N-CD-CG	-8.37	90.65	103.20
2	CX	105	VAL	N-CA-C	-8.37	104.43	112.29
2	0i	92	PRO	N-CA-C	8.36	125.15	113.53
44	EY	346	LYS	CD-CE-NZ	-8.36	85.15	111.90
46	o	523	LEU	CB-CG-CD2	-8.36	85.64	110.70
8	RM	63	PRO	N-CA-CB	-8.35	96.08	103.35
9	VH	299	MET	CG-SD-CE	-8.34	82.56	100.90
14	Ao	73	PRO	CA-N-CD	-8.29	100.39	112.00
19	BO	87	PRO	N-CA-C	8.28	120.80	110.70
9	IJ	261	PRO	CA-N-CD	-8.26	100.44	112.00
56	XM	178	PRO	N-CA-C	8.26	123.47	110.50
7	Ay	103	PRO	CA-N-CD	-8.21	100.50	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	BI	326	LYS	CD-CE-NZ	-8.19	85.68	111.90
38	Dg	72	LYS	CD-CE-NZ	-8.17	85.77	111.90
9	EH	415	MET	CA-CB-CG	8.15	130.40	114.10
9	RD	268	PRO	CA-CB-CG	-8.07	89.17	104.50
8	IK	215	ARG	CA-CB-CG	8.05	130.21	114.10
28	F4	148	GLU	N-CA-CB	-8.04	98.21	110.20
8	GM	326	LYS	CG-CD-CE	-8.03	92.83	111.30
8	NA	359	PRO	CA-N-CD	-8.03	100.76	112.00
9	NH	357	PRO	CA-CB-CG	-8.00	89.29	104.50
8	WK	359	PRO	CA-N-CD	-7.99	100.82	112.00
8	PK	359	PRO	CA-N-CD	-7.98	100.83	112.00
43	E1	160	PRO	N-CA-CB	7.93	110.71	103.33
9	BH	357	PRO	N-CD-CG	-7.91	91.34	103.20
8	QK	89	PRO	CA-CB-CG	-7.90	89.49	104.50
8	GE	307	PRO	CA-N-CD	-7.90	100.94	112.00
9	RL	358	PRO	CA-CB-CG	-7.89	89.51	104.50
9	VF	260	PHE	CA-C-O	-7.88	111.52	120.03
8	GM	360	PRO	CA-N-CD	-7.85	101.00	112.00
32	Cn	9	PRO	CA-N-CD	-7.84	101.02	112.00
8	CG	184	PRO	CB-CA-C	7.84	124.62	111.21
9	JL	252	LYS	CD-CE-NZ	-7.82	86.86	111.90
22	BX	9	PRO	CA-N-CD	-7.80	101.08	112.00
13	Ad	126	PRO	CA-N-CD	-7.79	101.10	112.00
9	FJ	122	LYS	CD-CE-NZ	-7.74	87.14	111.90
8	BG	359	PRO	CA-N-CD	-7.72	101.19	112.00
9	NJ	287	PRO	CA-N-CD	-7.71	101.20	112.00
8	LG	175	PRO	CA-N-CD	-7.70	101.21	112.00
33	Cr	233	MET	CG-SD-CE	-7.69	83.97	100.90
8	WE	268	PRO	CA-N-CD	-7.67	101.26	112.00
8	PE	261	PRO	CB-CA-C	7.67	118.35	109.92
46	o	422	ARG	CB-CG-CD	7.66	128.92	111.30
7	A1	101	PRO	N-CA-CB	-7.60	95.09	103.23
8	AM	177	VAL	CG1-CB-CG2	-7.60	94.07	110.80
8	RI	384	ILE	CB-CA-C	7.60	129.02	111.77
9	RH	268	PRO	N-CA-CB	-7.57	95.43	103.38
9	SJ	70	PRO	CA-CB-CG	-7.57	90.13	104.50
8	PG	338	LYS	CD-CE-NZ	-7.55	87.73	111.90
2	0i	69	MET	N-CA-CB	7.53	121.30	110.16
8	BG	359	PRO	CA-CB-CG	-7.51	90.23	104.50
8	VM	173	PRO	CA-N-CD	-7.47	101.54	112.00
9	QD	285	THR	CA-C-N	7.46	124.94	120.24
9	QD	285	THR	C-N-CA	7.46	124.94	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	DB	233	MET	CB-CG-SD	7.46	135.09	112.70
8	IK	215	ARG	CB-CA-C	-7.46	95.57	110.42
9	NB	32	PRO	N-CD-CG	-7.45	92.03	103.20
9	SH	358	PRO	CA-CB-CG	-7.44	90.37	104.50
9	BB	70	PRO	CA-N-CD	-7.43	101.60	112.00
9	AF	328	GLU	CA-CB-CG	-7.42	99.26	114.10
9	N0	285	THR	CA-C-N	7.42	124.91	120.24
9	N0	285	THR	C-N-CA	7.42	124.91	120.24
29	DS	161	TYR	CA-CB-CG	7.41	127.24	113.90
8	WE	268	PRO	CB-CA-C	7.36	123.70	111.56
9	ID	1	MET	CB-CG-SD	7.31	134.64	112.70
2	CU	92	PRO	CA-N-CD	-7.29	101.80	112.00
7	A8	242	HIS	CB-CA-C	-7.26	107.36	117.23
8	DI	394	LYS	CB-CG-CD	-7.25	94.62	111.30
8	CG	184	PRO	N-CA-C	7.23	122.88	114.20
9	PF	80	PRO	CA-N-CD	-7.22	101.89	112.00
19	BO	89	PRO	CA-CB-CG	-7.22	90.79	104.50
9	EN	268	PRO	CA-N-CD	-7.21	101.91	112.00
14	BZ	291	PRO	CA-N-CD	-7.19	101.93	112.00
6	A0	167	LEU	CA-CB-CG	7.18	141.43	116.30
29	DT	43	PRO	N-CD-CG	-7.17	92.45	103.20
29	DX	313	MET	CA-CB-CG	7.15	128.41	114.10
29	D5	393	LYS	CG-CD-CE	-7.15	94.85	111.30
7	Au	228	MET	CA-CB-CG	7.15	128.40	114.10
9	O0	285	THR	CA-C-N	7.14	124.74	120.24
9	O0	285	THR	C-N-CA	7.14	124.74	120.24
57	YL	45	LYS	CD-CE-NZ	-7.12	89.11	111.90
9	DD	171	PRO	N-CD-CG	-7.09	92.56	103.20
8	FI	280	LYS	CD-CE-NZ	7.08	134.55	111.90
8	QE	1	MET	CB-CG-SD	-7.07	91.48	112.70
9	FJ	1	MET	CG-SD-CE	-7.07	85.36	100.90
9	QF	171	PRO	CA-CB-CG	-7.05	91.11	104.50
44	EX	18	PRO	CA-N-CD	-7.04	102.14	112.00
44	EV	394	LYS	CD-CE-NZ	-7.03	89.39	111.90
7	A8	186	ARG	CB-CG-CD	7.03	127.47	111.30
48	M	106	PRO	N-CA-CB	-7.03	95.87	103.25
19	BO	87	PRO	CA-N-CD	-7.01	102.19	112.00
2	Ca	141	LEU	CA-C-N	7.01	124.65	120.24
2	Ca	141	LEU	C-N-CA	7.01	124.65	120.24
13	Ad	126	PRO	N-CA-C	6.99	119.22	110.70
8	WC	268	PRO	CA-N-CD	-6.98	102.22	112.00
8	RG	63	PRO	CA-N-CD	-6.97	102.23	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	EC	60	LYS	CD-CE-NZ	-6.97	89.60	111.90
8	GE	32	PRO	N-CD-CG	-6.96	92.75	103.20
2	CU	141	LEU	CA-C-N	6.96	124.62	120.24
2	CU	141	LEU	C-N-CA	6.96	124.62	120.24
8	RK	63	PRO	N-CA-CB	-6.94	97.31	103.35
9	WB	267	MET	CA-CB-CG	6.94	127.98	114.10
8	PM	359	PRO	CA-N-CD	-6.94	102.29	112.00
9	QF	272	PRO	CB-CG-CD	-6.91	83.98	106.10
9	ED	303	CYS	CA-C-N	6.89	134.02	120.94
9	ED	303	CYS	C-N-CA	6.89	134.02	120.94
9	IB	261	PRO	N-CD-CG	-6.89	92.87	103.20
8	EE	298	PRO	CA-N-CD	-6.88	102.37	112.00
2	CT	10	ARG	CA-CB-CG	-6.87	100.37	114.10
9	HD	171	PRO	N-CD-CG	-6.86	92.91	103.20
9	ID	1	MET	CG-SD-CE	-6.85	85.83	100.90
9	MJ	122	LYS	CA-CB-CG	6.85	127.80	114.10
7	Ay	139	PRO	CB-CG-CD	6.84	127.99	106.10
32	Co	395	LYS	CG-CD-CE	-6.83	95.60	111.30
9	WF	171	PRO	N-CD-CG	-6.83	92.96	103.20
8	IC	317	MET	CG-SD-CE	-6.82	85.90	100.90
8	QA	364	PRO	CB-CG-CD	6.80	127.87	106.10
9	EB	243	PRO	N-CD-CG	-6.79	93.01	103.20
8	BM	217	LEU	CB-CG-CD1	-6.79	90.34	110.70
9	VL	267	MET	CB-CA-C	6.78	119.60	109.63
29	D3	233	ARG	CA-C-N	-6.78	110.12	122.38
29	D3	233	ARG	C-N-CA	-6.78	110.12	122.38
2	Cb	141	LEU	CA-C-N	6.75	124.49	120.24
2	Cb	141	LEU	C-N-CA	6.75	124.49	120.24
9	ED	243	PRO	N-CD-CG	-6.75	93.08	103.20
8	MM	280	LYS	CA-CB-CG	6.75	127.59	114.10
8	VC	359	PRO	CA-N-CD	-6.74	102.56	112.00
9	FN	305	PRO	CA-N-CD	-6.74	102.56	112.00
9	MJ	182	PRO	CA-N-CD	-6.73	102.57	112.00
9	TL	22	GLU	CA-CB-CG	6.72	127.55	114.10
26	Bu	155	TYR	CA-C-N	6.72	134.37	121.54
26	Bu	155	TYR	C-N-CA	6.72	134.37	121.54
9	PL	331	LEU	CB-CG-CD1	-6.70	90.62	110.70
8	QC	273	ALA	CA-C-N	-6.69	111.47	119.84
8	QC	273	ALA	C-N-CA	-6.69	111.47	119.84
7	Av	184	ALA	CB-CA-C	-6.68	107.84	115.79
8	CI	268	PRO	N-CA-CB	-6.68	96.23	103.25
43	E4	160	PRO	N-CA-CB	6.67	110.26	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Dh	72	LYS	CD-CE-NZ	-6.67	90.55	111.90
2	CY	146	LEU	CB-CG-CD1	-6.65	90.76	110.70
21	Bj	25	ARG	CG-CD-NE	-6.64	97.38	112.00
29	EP	206	GLY	CA-C-N	6.63	133.91	121.97
29	EP	206	GLY	C-N-CA	6.63	133.91	121.97
8	CG	184	PRO	CA-N-CD	-6.62	102.73	112.00
48	L	106	PRO	N-CA-CB	-6.61	97.29	103.17
9	SH	299	MET	CG-SD-CE	-6.59	86.40	100.90
7	A8	184	ALA	CA-C-N	-6.59	108.96	121.54
7	A8	184	ALA	C-N-CA	-6.59	108.96	121.54
9	GJ	319	GLY	N-CA-C	6.58	120.21	110.60
9	MJ	324	LYS	N-CA-CB	6.58	121.61	110.49
8	PM	16	ILE	N-CA-C	-6.58	106.38	112.96
2	Cd	33	CYS	CA-CB-SG	6.58	129.52	114.40
9	HJ	1	MET	CG-SD-CE	-6.56	86.47	100.90
9	UJ	240	LEU	CB-CG-CD2	-6.55	91.05	110.70
15	Ar	159	PRO	CA-N-CD	-6.54	102.85	112.00
9	IN	379	LYS	CD-CE-NZ	-6.53	91.00	111.90
9	UF	324	LYS	CD-CE-NZ	-6.53	91.00	111.90
32	Cm	126	ASP	CB-CG-OD1	-6.53	103.38	118.40
8	DC	274	PRO	CA-N-CD	-6.53	102.86	112.00
2	0i	69	MET	CA-CB-CG	6.52	127.15	114.10
9	OJ	291	GLN	CA-CB-CG	-6.50	101.10	114.10
7	A1	11	ARG	CB-CG-CD	6.50	126.24	111.30
8	WC	188	ILE	CG1-CB-CG2	-6.49	91.22	110.70
48	M	85	GLN	CB-CA-C	6.47	117.51	109.16
2	Cd	119	PRO	N-CA-CB	-6.47	95.49	102.60
46	o	421	LYS	CA-C-N	-6.46	109.83	121.14
46	o	421	LYS	C-N-CA	-6.46	109.83	121.14
9	AH	324	LYS	CB-CG-CD	6.46	126.15	111.30
8	RM	265	ILE	N-CA-C	-6.45	105.04	111.88
8	HE	221	ARG	CA-CB-CG	6.45	127.00	114.10
59	a	104	PRO	N-CD-CG	-6.44	93.54	103.20
8	QG	398	MET	CB-CA-C	6.43	121.54	111.77
9	SH	323	MET	CG-SD-CE	-6.43	86.75	100.90
13	Ad	527	PRO	CA-N-CD	-6.42	103.02	112.00
9	AL	103	LYS	CD-CE-NZ	-6.41	91.39	111.90
8	HE	359	PRO	CA-N-CD	-6.40	103.04	112.00
8	QA	364	PRO	CA-N-CD	-6.40	103.04	112.00
8	AK	154	MET	CG-SD-CE	-6.39	86.84	100.90
2	CV	142	ILE	CG1-CB-CG2	-6.39	91.53	110.70
29	EP	477	LYS	CB-CG-CD	-6.39	96.61	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Ca	92	PRO	CA-N-CD	-6.38	103.06	112.00
57	YL	181	MET	CB-CG-SD	6.37	131.82	112.70
14	BY	270	HIS	CB-CA-C	6.37	123.10	110.42
3	1	145	PRO	N-CA-C	6.36	121.24	111.57
47	Y	365	PRO	CB-CG-CD	-6.36	85.75	106.10
9	RJ	267	MET	CB-CG-SD	6.34	131.72	112.70
9	VH	267	MET	CG-SD-CE	-6.34	86.95	100.90
8	BC	359	PRO	CA-N-CD	-6.34	103.13	112.00
8	NK	359	PRO	CA-N-CD	-6.33	103.14	112.00
7	A8	128	THR	CA-C-N	6.32	133.62	121.54
7	A8	128	THR	C-N-CA	6.32	133.62	121.54
8	JE	221	ARG	CB-CA-C	6.31	116.49	111.00
8	RE	316	CYS	CA-C-N	-6.31	112.69	122.59
8	RE	316	CYS	C-N-CA	-6.31	112.69	122.59
7	Av	120	PRO	N-CD-CG	-6.29	93.77	103.20
9	SD	323	MET	CG-SD-CE	-6.27	87.10	100.90
59	d	529	PRO	CA-N-CD	-6.27	103.22	112.00
29	DW	313	MET	CA-CB-CG	-6.26	101.58	114.10
8	FE	401	LYS	CD-CE-NZ	-6.24	91.94	111.90
9	WH	171	PRO	CA-N-CD	-6.22	103.29	112.00
9	HF	285	THR	OG1-CB-CG2	-6.21	96.88	109.30
9	CJ	297	LYS	CB-CG-CD	6.21	125.57	111.30
8	UC	256	GLN	CA-CB-CG	6.20	126.51	114.10
3	x	68	ARG	CG-CD-NE	-6.19	98.37	112.00
8	BE	326	LYS	CD-CE-NZ	-6.19	92.09	111.90
9	CJ	297	LYS	CG-CD-CE	-6.19	97.06	111.30
29	EQ	416	GLN	N-CA-C	-6.19	106.70	114.56
48	L	106	PRO	CB-CG-CD	6.19	125.89	106.10
29	DQ	473	MET	CA-CB-CG	6.18	126.47	114.10
2	CU	32	HIS	CA-C-N	-6.17	111.20	122.38
2	CU	32	HIS	C-N-CA	-6.17	111.20	122.38
56	XM	72	LYS	CB-CG-CD	-6.17	97.12	111.30
9	EJ	125	GLU	CB-CA-C	6.16	119.90	109.55
8	PE	260	VAL	C-N-CD	6.15	150.23	125.00
45	G	539	LYS	CA-CB-CG	6.15	126.40	114.10
9	RL	173	PRO	N-CA-C	6.14	122.26	113.47
42	E	734	PRO	N-CA-C	6.14	125.11	112.47
43	E3	160	PRO	N-CA-CB	6.14	110.41	102.86
14	Bb	87	PRO	CA-N-CD	-6.13	103.42	112.00
8	DE	268	PRO	CA-N-CD	-6.13	103.42	112.00
19	BP	327	GLN	CA-CB-CG	6.12	126.35	114.10
43	E2	160	PRO	N-CA-CB	6.12	110.39	102.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	GE	307	PRO	CA-CB-CG	-6.12	92.87	104.50
9	FN	350	LYS	CD-CE-NZ	-6.11	92.36	111.90
29	DS	449	MET	CG-SD-CE	-6.11	87.47	100.90
13	Ab	454	PRO	CB-CA-C	6.10	118.24	111.11
8	WE	220	GLU	N-CA-CB	6.10	119.16	110.44
9	TB	252	LYS	CB-CG-CD	6.09	125.32	111.30
28	F4	148	GLU	CB-CA-C	6.09	121.85	110.70
8	QI	110	ILE	N-CA-C	-6.09	107.92	113.71
13	Aa	144	ILE	CG1-CB-CG2	-6.09	92.44	110.70
9	FJ	285	THR	CA-C-N	6.09	124.07	120.24
9	FJ	285	THR	C-N-CA	6.09	124.07	120.24
3	1	145	PRO	N-CA-CB	-6.08	96.36	103.23
8	UE	342	GLN	CA-CB-CG	6.08	126.26	114.10
12	AV	48	LYS	CG-CD-CE	-6.08	97.32	111.30
12	AV	126	MET	CG-SD-CE	-6.07	87.54	100.90
14	Bb	189	PRO	CA-N-CD	-6.07	103.50	112.00
9	UJ	303	CYS	CA-C-N	-6.07	109.11	121.48
9	UJ	303	CYS	C-N-CA	-6.07	109.11	121.48
27	Bs	245	ILE	CB-CA-C	6.06	125.52	111.77
6	A0	49	ARG	CA-CB-CG	6.06	126.21	114.10
29	Cz	391	PRO	CB-CG-CD	6.06	125.48	106.10
8	KI	356	ASN	CA-C-N	-6.04	112.84	122.08
8	KI	356	ASN	C-N-CA	-6.04	112.84	122.08
9	SL	293	MET	CB-CG-SD	6.04	130.81	112.70
8	WC	268	PRO	CB-CG-CD	-6.04	86.78	106.10
52	P	50	GLU	CA-CB-CG	6.03	126.16	114.10
42	F	369	ILE	N-CA-C	-6.02	106.63	112.29
8	RK	84	ARG	CB-CG-CD	-6.02	97.45	111.30
8	CI	184	PRO	CA-N-CD	-6.02	103.57	112.00
8	DM	239	THR	CA-C-N	6.01	128.62	120.44
8	DM	239	THR	C-N-CA	6.01	128.62	120.44
28	F4	296	VAL	N-CA-C	-6.00	104.27	109.19
19	BR	373	ILE	CB-CG1-CD1	-6.00	101.21	113.80
8	OK	359	PRO	CA-N-CD	-5.99	103.61	112.00
8	TI	304	LYS	CA-CB-CG	5.99	126.08	114.10
59	a	229	MET	CB-CG-SD	-5.99	94.74	112.70
9	BF	357	PRO	CA-CB-CG	-5.97	93.15	104.50
7	Au	223	PRO	CA-N-CD	-5.97	103.65	112.00
9	GB	216	LYS	CA-CB-CG	5.96	126.02	114.10
8	PA	397	LEU	CA-CB-CG	5.96	137.14	116.30
42	F	297	LYS	CA-CB-CG	5.95	126.00	114.10
9	RB	202	ILE	CG1-CB-CG2	-5.95	92.86	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	QH	323	MET	CG-SD-CE	-5.94	87.84	100.90
9	QB	15	GLN	CA-CB-CG	5.93	125.97	114.10
8	BC	265	ILE	CG1-CB-CG2	-5.92	92.93	110.70
13	Ab	271	PRO	N-CD-CG	-5.92	94.33	103.20
16	Ax	148	GLU	CA-CB-CG	5.91	125.93	114.10
14	BZ	233	MET	CB-CG-SD	-5.89	95.03	112.70
9	BF	32	PRO	N-CD-CG	-5.89	94.37	103.20
2	Ck	13	GLU	N-CA-CB	5.88	119.99	110.40
9	BH	362	LYS	CB-CG-CD	-5.88	97.78	111.30
51	O	16	ILE	CB-CA-C	5.86	119.36	112.68
9	WL	271	ALA	CA-C-N	-5.86	107.71	120.89
9	WL	271	ALA	C-N-CA	-5.86	107.71	120.89
46	o	402	GLU	CA-CB-CG	5.86	125.81	114.10
9	QD	85	PHE	CA-C-N	5.85	128.99	120.51
9	QD	85	PHE	C-N-CA	5.85	128.99	120.51
2	Ck	13	GLU	CA-CB-CG	5.85	125.80	114.10
29	D4	113	ARG	CB-CG-CD	-5.85	97.84	111.30
9	QL	346	PRO	N-CA-C	5.84	124.50	112.47
9	WF	323	MET	CG-SD-CE	-5.83	88.08	100.90
8	IG	39	ASP	N-CA-C	-5.82	107.17	114.56
29	Cz	391	PRO	CA-N-CD	-5.81	103.86	112.00
2	Cg	141	LEU	CA-C-N	5.80	123.90	120.24
2	Cg	141	LEU	C-N-CA	5.80	123.90	120.24
29	D1	449	MET	CG-SD-CE	-5.80	88.13	100.90
8	PE	261	PRO	N-CA-C	5.80	122.11	114.68
9	RL	300	MET	CB-CG-SD	5.80	130.09	112.70
8	UK	182	VAL	N-CA-C	-5.80	106.75	111.91
9	GN	289	LEU	CB-CG-CD1	-5.79	93.31	110.70
26	Bq	27	PRO	N-CD-CG	-5.79	94.51	103.20
52	P	87	PRO	CA-C-N	5.79	129.48	120.68
52	P	87	PRO	C-N-CA	5.79	129.48	120.68
29	DW	461	LYS	CD-CE-NZ	-5.78	93.40	111.90
8	JK	74	VAL	N-CA-C	-5.78	108.22	113.71
7	A1	74	PRO	N-CD-CG	-5.78	94.53	103.20
9	HB	213	ARG	CA-CB-CG	5.78	125.65	114.10
9	LJ	291	GLN	CB-CA-C	5.77	120.40	110.01
3	1	46	ARG	N-CA-C	-5.77	108.04	114.62
9	PL	80	PRO	N-CD-CG	-5.76	94.56	103.20
9	QF	271	ALA	CA-C-N	-5.76	106.03	120.53
9	QF	271	ALA	C-N-CA	-5.76	106.03	120.53
9	AJ	32	PRO	CA-N-CD	-5.75	103.95	112.00
8	IK	326	LYS	CD-CE-NZ	-5.75	93.49	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0C	150	LYS	CA-CB-CG	5.74	125.58	114.10
33	Cw	10	PRO	CA-N-CD	-5.74	103.97	112.00
29	Cz	391	PRO	N-CA-CB	-5.74	97.02	103.33
47	X	287	PRO	CA-CB-CG	-5.74	93.60	104.50
44	EX	184	ARG	CA-CB-CG	-5.73	102.63	114.10
8	ME	422	ARG	CD-NE-CZ	-5.73	116.37	124.40
9	OJ	1	MET	CB-CG-SD	-5.73	95.50	112.70
19	BR	35	LEU	CB-CG-CD2	5.73	127.89	110.70
2	0A	150	LYS	CA-CB-CG	5.73	125.55	114.10
9	OH	299	MET	CB-CG-SD	5.72	129.86	112.70
8	CM	339	ARG	CA-CB-CG	5.71	125.53	114.10
63	n	165	VAL	CA-CB-CG1	5.71	120.11	110.40
9	PB	267	MET	CA-CB-CG	5.71	125.52	114.10
8	DK	172	TYR	CA-CB-CG	5.71	124.17	113.90
9	NB	357	PRO	CA-CB-CG	-5.71	93.66	104.50
53	Q	139	LYS	CB-CG-CD	5.71	124.42	111.30
9	HJ	357	PRO	CA-N-CD	-5.70	104.02	112.00
7	Ay	139	PRO	N-CA-CB	-5.70	97.24	103.39
33	Cv	355	LYS	CG-CD-CE	-5.67	98.25	111.30
9	BD	362	LYS	CA-CB-CG	5.67	125.44	114.10
8	RI	121	ARG	CG-CD-NE	5.67	124.48	112.00
32	Cm	126	ASP	CB-CG-OD2	5.66	131.42	118.40
9	TH	257	MET	CA-C-N	-5.66	117.20	123.43
9	TH	257	MET	C-N-CA	-5.66	117.20	123.43
9	WJ	374	ILE	N-CA-C	-5.66	106.29	112.80
2	Ck	12	VAL	CA-C-N	-5.65	111.25	121.14
2	Ck	12	VAL	C-N-CA	-5.65	111.25	121.14
9	RL	73	MET	CG-SD-CE	-5.65	88.47	100.90
57	YK	211	ILE	CA-CB-CG1	5.65	120.00	110.40
9	ND	256	ASN	CA-C-N	-5.65	112.16	122.38
9	ND	256	ASN	C-N-CA	-5.65	112.16	122.38
9	WD	267	MET	CA-CB-CG	5.65	125.39	114.10
8	AM	401	LYS	CD-CE-NZ	-5.64	93.85	111.90
9	FD	298	ASN	CB-CA-C	5.63	119.03	109.84
29	DS	165	ARG	CG-CD-NE	-5.63	99.61	112.00
9	EL	252	LYS	CD-CE-NZ	-5.63	93.89	111.90
8	TC	401	LYS	CD-CE-NZ	-5.62	93.90	111.90
8	CC	261	PRO	N-CD-CG	-5.62	94.77	103.20
29	DW	58	LYS	CG-CD-CE	-5.62	98.36	111.30
9	MJ	324	LYS	CG-CD-CE	5.62	124.22	111.30
9	CH	257	MET	CA-C-N	-5.61	117.97	122.85
9	CH	257	MET	C-N-CA	-5.61	117.97	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	D1	288	LYS	CB-CG-CD	5.61	124.20	111.30
9	UD	324	LYS	CG-CD-CE	-5.61	98.40	111.30
9	DF	1	MET	CG-SD-CE	-5.60	88.57	100.90
2	0i	73	ILE	CA-CB-CG1	5.60	119.91	110.40
9	FB	171	PRO	CA-CB-CG	-5.60	93.86	104.50
8	WE	26	LEU	CB-CG-CD1	-5.60	93.91	110.70
8	QC	119	LEU	CB-CG-CD2	-5.59	93.93	110.70
8	NK	123	ARG	CG-CD-NE	-5.59	99.71	112.00
42	E	733	ARG	C-N-CD	5.58	147.90	125.00
9	QB	415	MET	CB-CG-SD	5.58	129.45	112.70
8	DK	89	PRO	N-CD-CG	-5.58	94.83	103.20
9	RD	267	MET	C-N-CD	5.57	147.85	125.00
29	DX	455	GLU	CA-CB-CG	5.57	125.23	114.10
8	BI	430	LYS	CA-CB-CG	5.55	125.21	114.10
8	RK	63	PRO	CA-N-CD	-5.55	104.23	112.00
9	NL	171	PRO	CA-C-N	5.54	135.32	121.80
9	NL	171	PRO	C-N-CA	5.54	135.32	121.80
9	FJ	336	LYS	CA-CB-CG	5.54	125.17	114.10
9	SB	216	LYS	CB-CG-CD	5.53	124.03	111.30
2	Cb	33	CYS	CA-CB-SG	5.53	127.12	114.40
9	RD	147	MET	CB-CG-SD	5.53	129.28	112.70
9	TB	330	MET	CB-CG-SD	5.52	129.27	112.70
8	VE	359	PRO	CA-N-CD	-5.52	104.28	112.00
9	NH	216	LYS	CA-CB-CG	5.51	125.13	114.10
60	g	249	LYS	CA-C-N	5.51	132.07	121.54
60	g	249	LYS	C-N-CA	5.51	132.07	121.54
13	Ab	671	GLU	CA-CB-CG	5.51	125.11	114.10
9	HJ	1	MET	CB-CG-SD	-5.50	96.22	112.70
2	CT	10	ARG	CG-CD-NE	-5.49	99.92	112.00
9	RB	415	MET	CG-SD-CE	5.49	112.98	100.90
11	AT	331	LYS	CA-CB-CG	5.49	125.08	114.10
9	JL	272	PRO	CA-N-CD	-5.49	104.32	112.00
8	KK	401	LYS	CD-CE-NZ	-5.49	94.34	111.90
8	LK	110	ILE	CG1-CB-CG2	-5.49	94.23	110.70
9	EL	73	MET	CG-SD-CE	-5.48	88.84	100.90
9	NL	285	THR	CA-C-N	5.48	123.69	120.24
9	NL	285	THR	C-N-CA	5.48	123.69	120.24
9	RD	330	MET	CB-CG-SD	-5.48	96.26	112.70
2	0A	12	VAL	CA-CB-CG2	-5.48	101.09	110.40
9	SL	216	LYS	CB-CG-CD	5.48	123.90	111.30
60	e	102	LYS	CB-CG-CD	5.48	123.90	111.30
8	RM	425	LEU	CB-CG-CD2	5.47	127.12	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	EU	324	LYS	CA-CB-CG	5.47	125.05	114.10
9	VF	260	PHE	C-N-CD	5.47	147.42	125.00
9	IL	330	MET	CB-CG-SD	5.47	129.10	112.70
8	UE	342	GLN	CB-CA-C	5.47	119.72	109.71
8	GM	423	GLU	CA-CB-CG	5.46	125.03	114.10
3	1	145	PRO	CB-CA-C	5.46	118.14	110.60
9	QJ	73	MET	CG-SD-CE	-5.46	88.89	100.90
4	y	1399	MET	CB-CG-SD	-5.46	96.32	112.70
8	HC	367	ASP	N-CA-C	-5.45	107.63	114.56
28	F4	296	VAL	CB-CA-C	5.45	114.67	109.33
8	DE	268	PRO	CB-CA-C	5.45	120.55	111.56
54	S	121	ILE	N-CA-C	-5.45	107.48	111.90
59	b	309	MET	CB-CG-SD	5.44	129.03	112.70
55	W	64	PRO	CA-C-N	5.44	131.93	121.54
55	W	64	PRO	C-N-CA	5.44	131.93	121.54
8	GG	221	ARG	CA-CB-CG	5.44	124.98	114.10
29	EA	393	LYS	CD-CE-NZ	-5.44	94.51	111.90
13	Ad	206	LYS	CD-CE-NZ	-5.43	94.51	111.90
7	A5	130	THR	CB-CA-C	-5.43	110.29	116.54
9	LB	299	MET	CB-CG-SD	5.43	129.00	112.70
9	RL	173	PRO	N-CA-CB	-5.43	97.42	103.23
33	Cv	423	LYS	CB-CG-CD	5.43	123.79	111.30
8	RI	384	ILE	N-CA-CB	-5.43	99.65	111.05
9	TH	173	PRO	CA-N-CD	-5.43	104.40	112.00
14	Ao	73	PRO	N-CA-C	5.42	117.31	110.70
47	Y	502	ARG	CB-CG-CD	-5.42	98.83	111.30
8	HO	123	ARG	CA-CB-CG	-5.41	103.28	114.10
8	MI	401	LYS	CB-CG-CD	-5.40	98.88	111.30
9	RH	125	GLU	CG-CD-OE2	-5.40	105.98	118.40
9	TB	147	MET	CB-CG-SD	5.40	128.90	112.70
13	Ad	576	THR	CB-CA-C	-5.39	110.34	116.54
47	X	516	MET	CA-C-N	-5.39	112.62	122.38
47	X	516	MET	C-N-CA	-5.39	112.62	122.38
9	KD	257	MET	CG-SD-CE	-5.39	89.05	100.90
29	D8	268	GLU	CA-CB-CG	5.38	124.86	114.10
9	MN	122	LYS	CB-CG-CD	5.38	123.68	111.30
8	TM	2	ARG	CA-CB-CG	-5.38	103.34	114.10
2	Cg	54	MET	CB-CG-SD	5.38	128.83	112.70
56	XM	178	PRO	N-CD-CG	-5.38	95.14	103.20
44	EU	316	HIS	CA-C-N	-5.37	112.07	122.06
44	EU	316	HIS	C-N-CA	-5.37	112.07	122.06
9	FJ	291	GLN	CA-CB-CG	5.37	124.85	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	WI	377	MET	CG-SD-CE	5.37	112.72	100.90
8	QK	173	PRO	N-CA-C	5.37	118.93	110.50
9	QD	293	MET	CA-CB-CG	5.37	124.83	114.10
9	RJ	180	VAL	N-CA-C	-5.36	107.25	112.29
42	F	621	GLY	N-CA-C	5.36	117.66	110.43
56	XI	122	PRO	CA-N-CD	-5.35	104.50	112.00
11	AT	304	ARG	CB-CG-CD	5.35	123.60	111.30
7	Av	120	PRO	CA-N-CD	-5.35	104.51	112.00
8	SA	59	GLY	N-CA-C	-5.35	107.63	114.85
2	0C	58	CYS	CA-CB-SG	5.35	126.70	114.40
8	GC	182	VAL	N-CA-C	-5.35	107.26	112.29
48	M	104	PRO	CB-CA-C	-5.35	104.22	111.12
9	BD	357	PRO	N-CD-CG	-5.35	95.18	103.20
56	XG	170	ARG	CB-CG-CD	5.35	123.60	111.30
57	YL	181	MET	CA-CB-CG	5.35	124.79	114.10
21	Bk	303	ARG	CG-CD-NE	-5.34	100.24	112.00
8	HE	326	LYS	CG-CD-CE	-5.34	99.01	111.30
9	NF	191	GLN	CA-CB-CG	5.34	124.79	114.10
59	a	229	MET	CA-CB-CG	-5.34	103.41	114.10
2	0i	92	PRO	CA-CB-CG	-5.34	94.35	104.50
29	DR	475	MET	CA-CB-CG	5.34	124.79	114.10
44	EZ	365	ASN	CB-CA-C	-5.34	109.97	117.23
29	EP	447	LEU	CD1-CG-CD2	5.34	122.54	110.80
8	OG	115	VAL	CA-CB-CG1	-5.34	101.33	110.40
9	RD	267	MET	CA-C-N	-5.33	113.17	119.84
9	RD	267	MET	C-N-CA	-5.33	113.17	119.84
3	1	145	PRO	CB-CG-CD	-5.33	89.04	106.10
7	Av	136	THR	OG1-CB-CG2	-5.33	98.64	109.30
9	QL	346	PRO	N-CD-CG	-5.33	95.20	103.20
54	R	249	LEU	CA-CB-CG	5.33	134.95	116.30
23	Bf	125	PRO	CA-N-CD	-5.33	104.54	112.00
9	CH	257	MET	CB-CG-SD	-5.33	96.72	112.70
9	DN	58	LYS	CG-CD-CE	-5.32	99.07	111.30
28	C2	377	MET	CG-SD-CE	-5.32	89.21	100.90
8	GI	430	LYS	CB-CG-CD	5.32	123.53	111.30
8	FG	209	ILE	CG1-CB-CG2	-5.31	94.76	110.70
42	E	726	LYS	CA-CB-CG	5.31	124.72	114.10
9	IF	415	MET	CG-SD-CE	5.31	112.58	100.90
8	QK	89	PRO	N-CA-CB	-5.31	98.16	103.20
8	GG	326	LYS	CG-CD-CE	-5.31	99.10	111.30
9	MJ	324	LYS	CA-CB-CG	5.30	124.71	114.10
9	TF	406	MET	CA-CB-CG	5.30	124.70	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
63	k	69	LYS	CD-CE-NZ	-5.30	94.94	111.90
8	FI	376	CYS	CA-CB-SG	5.30	126.58	114.40
7	Au	228	MET	CB-CG-SD	5.29	128.58	112.70
29	EP	119	MET	CB-CG-SD	-5.29	96.82	112.70
2	Ce	30	LEU	CA-CB-CG	5.29	134.82	116.30
9	UB	323	MET	CG-SD-CE	5.29	112.54	100.90
8	FE	110	ILE	N-CA-C	-5.29	105.61	113.39
8	QK	398	MET	CG-SD-CE	-5.29	89.26	100.90
20	BS	330	ARG	CA-CB-CG	5.29	124.67	114.10
28	F2	94	TYR	CA-C-N	5.29	134.68	122.31
28	F2	94	TYR	C-N-CA	5.29	134.68	122.31
8	PE	74	VAL	N-CA-C	-5.29	107.27	111.81
9	QD	369	GLY	N-CA-C	5.29	118.78	110.91
8	FK	358	GLN	CA-CB-CG	-5.28	103.53	114.10
7	Ay	72	VAL	N-CA-C	-5.28	108.14	113.47
7	A8	178	LYS	CB-CG-CD	5.28	123.45	111.30
44	EU	317	LYS	CA-CB-CG	5.28	124.66	114.10
29	Cz	269	LYS	CD-CE-NZ	-5.27	95.03	111.90
9	WN	257	MET	CB-CG-SD	5.27	128.51	112.70
42	E	847	LYS	CD-CE-NZ	-5.27	95.05	111.90
29	EP	359	LYS	CB-CG-CD	5.27	123.41	111.30
8	HK	221	ARG	CA-CB-CG	5.27	124.63	114.10
9	QJ	67	ASP	CA-C-N	-5.27	114.39	122.60
9	QJ	67	ASP	C-N-CA	-5.27	114.39	122.60
9	UD	323	MET	CA-C-N	-5.26	111.92	121.14
9	UD	323	MET	C-N-CA	-5.26	111.92	121.14
8	LE	96	LYS	CB-CG-CD	5.26	123.40	111.30
9	TB	330	MET	CA-CB-CG	-5.26	103.59	114.10
9	VL	267	MET	CA-CB-CG	5.26	124.61	114.10
2	Cd	32	HIS	CA-C-N	-5.25	112.41	121.66
2	Cd	32	HIS	C-N-CA	-5.25	112.41	121.66
8	WK	171	ILE	CA-C-N	5.25	136.18	120.69
8	WK	171	ILE	C-N-CA	5.25	136.18	120.69
8	IK	215	ARG	CD-NE-CZ	-5.25	117.05	124.40
8	QA	89	PRO	N-CD-CG	-5.25	95.33	103.20
9	WJ	323	MET	CG-SD-CE	-5.25	89.35	100.90
57	YJ	220	ASN	CB-CA-C	5.24	117.70	110.16
23	Bf	95	GLN	CA-CB-CG	5.24	124.57	114.10
28	C5	345	LEU	CD1-CG-CD2	-5.23	99.29	110.80
9	FH	406	MET	CA-CB-CG	5.23	124.57	114.10
59	c	104	PRO	N-CA-C	5.23	120.40	113.86
8	DA	154	MET	CA-CB-CG	5.23	124.56	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	NL	357	PRO	N-CD-CG	-5.23	95.36	103.20
60	g	280	LYS	CA-C-N	5.23	126.63	120.09
60	g	280	LYS	C-N-CA	5.23	126.63	120.09
8	CG	359	PRO	CA-N-CD	-5.23	104.68	112.00
9	UB	318	ARG	CG-CD-NE	5.23	123.50	112.00
7	Av	120	PRO	CA-CB-CG	-5.23	94.57	104.50
9	FN	164	MET	CB-CG-SD	5.22	128.38	112.70
9	NF	233	MET	CG-SD-CE	-5.22	89.41	100.90
9	SJ	70	PRO	N-CA-CB	-5.22	97.77	103.25
42	E	734	PRO	CB-CA-C	5.22	120.18	111.56
9	SH	243	PRO	CA-N-CD	-5.22	104.69	112.00
8	MM	276	ILE	CG1-CB-CG2	-5.22	95.04	110.70
9	AD	336	LYS	CD-CE-NZ	-5.22	95.21	111.90
7	Aw	45	LYS	CB-CG-CD	5.20	123.26	111.30
9	PL	415	MET	CA-CB-CG	-5.20	103.71	114.10
9	WH	170	VAL	CG1-CB-CG2	-5.19	99.38	110.80
9	VH	192	LEU	CA-CB-CG	5.18	134.44	116.30
9	WN	174	LYS	CB-CG-CD	5.17	123.20	111.30
9	QF	271	ALA	C-N-CD	5.17	146.20	125.00
8	AC	132	LEU	N-CA-C	-5.17	100.94	108.07
12	AW	247	PRO	N-CD-CG	-5.17	95.44	103.20
2	CX	79	LYS	CD-CE-NZ	5.17	128.44	111.90
2	Ca	54	MET	CG-SD-CE	-5.17	89.53	100.90
9	KL	220	PRO	CA-N-CD	-5.17	104.77	112.00
8	FM	32	PRO	N-CD-CG	-5.17	95.45	103.20
8	QG	398	MET	CG-SD-CE	-5.17	89.54	100.90
8	QG	214	ARG	CB-CG-CD	5.16	123.18	111.30
8	ME	326	LYS	CD-CE-NZ	-5.16	95.38	111.90
44	EZ	182	LEU	CB-CG-CD2	-5.16	95.22	110.70
2	0c	57	HIS	CA-C-N	5.16	131.38	121.54
2	0c	57	HIS	C-N-CA	5.16	131.38	121.54
9	WF	406	MET	CB-CG-SD	5.16	128.17	112.70
2	0g	121	ASP	CA-CB-CG	5.15	117.75	112.60
9	OL	73	MET	CB-CG-SD	5.15	128.15	112.70
57	YL	78	ARG	CA-CB-CG	5.15	124.40	114.10
8	PA	203	MET	CG-SD-CE	-5.15	89.57	100.90
29	D0	404	ARG	CG-CD-NE	-5.15	100.68	112.00
8	JC	265	ILE	CG1-CB-CG2	-5.15	95.26	110.70
56	XM	72	LYS	CA-CB-CG	-5.15	103.80	114.10
2	0g	30	LEU	CA-CB-CG	5.15	134.31	116.30
7	Au	206	VAL	CG1-CB-CG2	-5.14	99.49	110.80
27	Bs	133	MET	CB-CG-SD	-5.14	97.27	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	BA	108	TYR	CA-C-N	5.14	131.36	121.54
8	BA	108	TYR	C-N-CA	5.14	131.36	121.54
8	WK	157	LEU	CA-CB-CG	5.14	134.28	116.30
8	NI	326	LYS	CG-CD-CE	5.13	123.11	111.30
8	WK	311	LYS	CB-CG-CD	5.13	123.09	111.30
58	p	71	ILE	CA-CB-CG1	-5.12	101.69	110.40
8	IK	123	ARG	CG-CD-NE	-5.12	100.74	112.00
9	SJ	243	PRO	N-CA-C	5.12	118.53	110.80
7	Av	155	LYS	CG-CD-CE	-5.12	99.53	111.30
29	D3	238	ARG	CG-CD-NE	5.12	123.25	112.00
5	B	156	ILE	N-CA-C	-5.11	100.74	106.21
9	UH	181	GLU	N-CA-C	5.11	121.11	109.81
4	y	1399	MET	CA-CB-CG	5.11	124.33	114.10
9	PL	171	PRO	N-CD-CG	-5.11	95.53	103.20
9	BB	22	GLU	CA-CB-CG	5.11	124.32	114.10
8	FM	32	PRO	CA-N-CD	-5.11	104.85	112.00
57	YI	194	LEU	N-CA-C	5.11	121.10	109.81
9	HD	171	PRO	N-CA-C	5.11	119.07	111.41
8	IK	77	GLU	CA-CB-CG	-5.11	103.88	114.10
9	RL	293	MET	CG-SD-CE	-5.11	89.67	100.90
9	ML	204	ASN	N-CA-C	5.11	117.24	111.11
9	NB	204	ASN	N-CA-C	5.11	117.24	111.11
9	PB	330	MET	CB-CG-SD	5.11	128.02	112.70
9	OJ	164	MET	CB-CG-SD	5.10	128.01	112.70
8	VG	112	LYS	CB-CG-CD	5.10	123.04	111.30
43	E3	101	ARG	CA-CB-CG	5.10	124.30	114.10
8	DK	409	VAL	N-CA-C	-5.10	107.46	113.42
9	BL	362	LYS	CD-CE-NZ	5.09	128.19	111.90
63	l	162	LYS	N-CA-C	5.09	116.86	110.91
7	A1	69	ARG	CA-CB-CG	5.09	124.28	114.10
7	A6	243	SER	N-CA-C	5.09	116.85	110.24
18	B5	123	LYS	CA-CB-CG	5.09	124.27	114.10
9	BB	321	MET	CG-SD-CE	-5.08	89.71	100.90
29	C1	234	LYS	CB-CG-CD	5.08	123.00	111.30
56	XM	178	PRO	N-CA-CB	-5.08	99.24	103.30
8	UM	207	GLU	CA-CB-CG	5.08	124.26	114.10
8	VG	112	LYS	CA-CB-CG	5.08	124.25	114.10
9	QF	216	LYS	CB-CG-CD	5.08	122.97	111.30
2	Cc	55	GLU	CA-C-N	-5.07	107.80	122.15
2	Cc	55	GLU	C-N-CA	-5.07	107.80	122.15
8	QI	302	MET	CA-CB-CG	5.07	124.24	114.10
9	VF	263	LEU	CA-CB-CG	5.07	134.03	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	WN	232	THR	CA-C-N	-5.07	113.15	121.92
9	WN	232	THR	C-N-CA	-5.07	113.15	121.92
9	WJ	173	PRO	CA-N-CD	-5.07	104.91	112.00
29	DT	218	LEU	CA-CB-CG	5.06	134.02	116.30
9	EF	358	PRO	CA-N-CD	-5.06	104.91	112.00
8	TI	326	LYS	CG-CD-CE	-5.06	99.66	111.30
9	CH	263	LEU	CB-CG-CD2	-5.06	95.52	110.70
9	FF	162	ARG	CB-CG-CD	5.06	122.94	111.30
2	0C	141	LEU	CA-C-N	5.06	123.43	120.24
2	0C	141	LEU	C-N-CA	5.06	123.43	120.24
8	BK	32	PRO	N-CA-CB	-5.06	97.64	103.30
9	NL	391	ARG	CB-CA-C	5.05	117.87	109.38
8	RM	63	PRO	CA-N-CD	-5.05	104.93	112.00
1	V	79	ARG	CG-CD-NE	-5.05	100.89	112.00
8	NA	203	MET	CB-CG-SD	5.05	127.84	112.70
9	GL	406	MET	CB-CG-SD	5.04	127.83	112.70
9	QD	15	GLN	CA-CB-CG	5.04	124.18	114.10
9	RL	358	PRO	CB-CA-C	5.04	118.83	111.22
8	NA	202	PHE	CA-C-N	-5.04	114.57	122.73
8	NA	202	PHE	C-N-CA	-5.04	114.57	122.73
9	VH	284	LEU	CA-CB-CG	5.04	133.92	116.30
10	AR	116	LYS	CA-CB-CG	5.03	124.17	114.10
9	TL	22	GLU	CB-CA-C	5.03	119.79	109.67
8	IK	263	PRO	CA-N-CD	-5.03	104.95	112.00
8	SI	31	GLN	CB-CG-CD	5.03	121.16	112.60
8	CC	261	PRO	CA-N-CD	-5.03	104.96	112.00
9	FJ	125	GLU	CA-CB-CG	5.03	124.16	114.10
9	SH	233	MET	CG-SD-CE	5.03	111.97	100.90
9	BB	1	MET	CA-CB-CG	5.03	124.15	114.10
35	Da	97	ILE	CG1-CB-CG2	-5.03	95.62	110.70
9	EH	267	MET	C-N-CD	5.03	145.60	125.00
44	EV	73	GLN	CB-CG-CD	5.03	121.14	112.60
9	RB	415	MET	CA-CB-CG	5.02	124.15	114.10
12	AW	202	LYS	CB-CG-CD	5.02	122.84	111.30
8	NI	123	ARG	CB-CG-CD	-5.02	99.76	111.30
9	VN	181	GLU	CA-CB-CG	5.02	124.14	114.10
9	RJ	330	MET	CA-CB-CG	-5.01	104.07	114.10
8	SA	36	MET	CB-CG-SD	5.01	127.74	112.70
8	AM	177	VAL	CA-CB-CG2	-5.01	101.88	110.40
8	DG	89	PRO	N-CD-CG	-5.01	95.68	103.20
8	IK	336	LYS	CD-CE-NZ	-5.01	95.87	111.90
9	RF	279	GLN	CB-CG-CD	5.01	121.12	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	M	104	PRO	N-CA-C	5.01	119.10	111.34
28	C0	382	ILE	CG1-CB-CG2	-5.00	95.69	110.70

There are no chirality outliers.

All (172) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	0C	118	TYR	Peptide
2	0C	33	CYS	Peptide
2	0C	55	GLU	Peptide
2	0E	118	TYR	Peptide
2	0E	58	CYS	Peptide
2	0Y	33	CYS	Peptide
2	0a	33	CYS	Peptide
2	0c	34	ARG	Sidechain
2	0g	124	ASN	Peptide
2	0g	33	CYS	Peptide
2	0i	10	ARG	Sidechain
2	0i	118	TYR	Peptide
2	0i	33	CYS	Peptide
6	A0	221	MET	Peptide
6	A0	49	ARG	Sidechain
7	A5	54	ARG	Peptide
7	A7	11	ARG	Peptide
7	A7	12	PRO	Peptide
7	A7	78	ARG	Sidechain
7	A8	185	TYR	Peptide
7	A8	188	THR	Peptide
7	A8	219	GLY	Peptide
7	A8	221	HIS	Peptide
7	A9	47	ARG	Sidechain
8	AG	214	ARG	Sidechain
8	AI	215	ARG	Sidechain
11	AT	250	ARG	Sidechain
13	Aa	623	ARG	Sidechain
13	Ab	636	LYS	Peptide
13	Ac	261	MET	Peptide
13	Ac	520	GLU	Sidechain
13	Ad	126	PRO	Peptide
14	Al	28	ARG	Sidechain
15	Ap	177	GLN	Peptide
15	Ar	177	GLN	Peptide

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Mol	Chain	Res	Type	Group
7	Aw	54	ARG	Sidechain
7	Ay	181	GLY	Peptide
7	Ay	92	ARG	Sidechain
8	BE	390	ARG	Sidechain
8	BM	214	ARG	Sidechain
19	BR	88	PRO	Peptide
14	BY	269	THR	Peptide
14	Bb	256	ARG	Sidechain
21	Bj	25	ARG	Sidechain
18	Bz	100	MET	Peptide
8	CK	221	ARG	Sidechain
2	CT	33	CYS	Peptide
2	CT	56	HIS	Peptide
2	CY	10	ARG	Sidechain
2	Cb	10	ARG	Sidechain
2	Cb	33	CYS	Peptide
2	Cb	56	HIS	Peptide
2	Ci	118	TYR	Peptide
32	Co	97	ARG	Sidechain
33	Ct	124	ARG	Peptide
29	D4	113	ARG	Sidechain
29	D4	412	ARG	Sidechain
9	DH	260	PHE	Peptide
29	DP	113	ARG	Sidechain
42	E	731	LEU	Peptide
43	E2	51	TYR	Peptide
43	E4	101	ARG	Sidechain
9	ED	359	ARG	Sidechain
8	EI	123	ARG	Sidechain
9	EJ	125	GLU	Sidechain
8	EK	88	HIS	Peptide
9	EL	323	MET	Peptide
9	EL	73	MET	Peptide
29	EP	255	ARG	Sidechain
44	ES	64	TYR	Sidechain
44	EX	184	ARG	Sidechain
44	EX	430	CYS	Peptide
42	F	326	PHE	Peptide
42	F	342	ARG	Sidechain
28	F2	373	PHE	Sidechain
28	F6	121	ARG	Sidechain
9	FB	276	ARG	Sidechain

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Mol	Chain	Res	Type	Group
9	FB	323	MET	Peptide
8	FE	123	ARG	Sidechain
9	FH	391	ARG	Sidechain
9	FJ	122	LYS	Peptide
8	FK	320	ARG	Sidechain
45	G	197	THR	Peptide
45	G	525	ARG	Sidechain
9	GD	252	LYS	Peptide
9	GF	320	ARG	Sidechain
9	GF	324	LYS	Peptide
8	GG	308	ARG	Sidechain
9	GH	306	ARG	Sidechain
9	GJ	323	MET	Peptide
8	GK	201	ALA	Peptide
8	GK	390	ARG	Sidechain
9	GL	380	ARG	Sidechain
46	H	572	TYR	Sidechain
9	HB	213	ARG	Sidechain
9	HD	43	GLN	Peptide
9	HJ	380	ARG	Sidechain
8	HO	123	ARG	Sidechain
47	I	153	ARG	Sidechain
47	I	502	ARG	Sidechain
8	IC	72	PRO	Peptide
8	IE	214	ARG	Sidechain
8	IG	79	ARG	Sidechain
8	IK	38	SER	Peptide
8	IK	79	ARG	Sidechain
9	IN	320	ARG	Sidechain
48	J	112	LEU	Peptide
49	K1	88	GLU	Peptide
8	KE	422	ARG	Sidechain
8	KI	357	TYR	Sidechain
50	L1	132	ASP	Peptide
50	L1	18	ARG	Peptide
50	L1	67	ASN	Peptide
8	LC	37	PRO	Peptide
8	LK	38	SER	Peptide
9	MD	276	ARG	Sidechain
8	ME	221	ARG	Sidechain
9	MF	262	ARG	Sidechain
8	MK	210	TYR	Sidechain

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Mol	Chain	Res	Type	Group
8	NC	97	GLU	Peptide
9	NF	213	ARG	Sidechain
8	NI	123	ARG	Sidechain
8	NK	123	ARG	Sidechain
9	NL	391	ARG	Sidechain
51	O	133	ARG	Sidechain
9	O0	279	GLN	Peptide
8	OE	214	ARG	Sidechain
8	OG	64	ARG	Sidechain
9	OL	380	ARG	Sidechain
8	PA	156	ARG	Sidechain
8	PC	254	GLU	Peptide
9	PH	251	ARG	Sidechain
8	PI	221	ARG	Sidechain
9	PJ	295	ASP	Peptide
9	PJ	390	ARG	Sidechain
8	QA	373	ARG	Sidechain
8	RA	84	ARG	Sidechain
9	RF	391	ARG	Peptide
9	RH	121	ARG	Sidechain
9	RH	125	GLU	Sidechain
9	RH	348	ASN	Peptide
8	RI	121	ARG	Sidechain
8	RI	422	ARG	Sidechain
8	RK	284	GLU	Peptide
9	RL	106	TYR	Sidechain
9	SD	86	ARG	Sidechain
8	SG	284	GLU	Peptide
8	SG	390	ARG	Sidechain
8	SK	72	PRO	Peptide
8	TI	320	ARG	Sidechain
8	TI	390	ARG	Sidechain
9	TL	251	ARG	Sidechain
8	UE	390	ARG	Sidechain
9	UJ	306	ARG	Sidechain
9	UL	380	ARG	Sidechain
1	V	58	TYR	Peptide
9	VB	2	ARG	Sidechain
8	WI	308	ARG	Sidechain
9	WJ	262	ARG	Sidechain
56	XI	72	LYS	Peptide
47	Y	276	ARG	Sidechain

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Mol	Chain	Res	Type	Group
57	YL	78	ARG	Sidechain
59	a	225	ARG	Sidechain
59	a	246	ARG	Sidechain
59	b	234	ARG	Sidechain
59	b	240	ARG	Sidechain
59	b	439	ARG	Sidechain
59	d	419	ARG	Sidechain
59	d	446	ARG	Sidechain
60	f	36	HIS	Peptide
46	o	422	ARG	Sidechain
65	s	75	ARG	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	330	0	317	2	0
1	V	1487	0	1428	46	0
2	0A	1252	0	1232	26	0
2	0C	1252	0	1232	27	0
2	0E	1260	0	1244	30	0
2	0G	1252	0	1232	15	0
2	0W	1252	0	1232	11	0
2	0Y	1252	0	1232	26	0
2	0a	1252	0	1232	27	0
2	0c	1252	0	1232	26	0
2	0e	1244	0	1223	21	0
2	0g	1252	0	1232	26	0
2	0i	1252	0	1232	38	0
2	0k	1252	0	1232	32	0
2	CT	1260	0	1244	31	0
2	CU	1244	0	1223	30	0
2	CV	1252	0	1232	33	0
2	CX	1252	0	1232	34	0
2	CY	1252	0	1232	24	0
2	CZ	1252	0	1232	19	0
2	Ca	1252	0	1232	23	0
2	Cb	1252	0	1232	32	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Cc	1252	0	1232	24	0
2	Cd	1252	0	1232	26	0
2	Ce	1244	0	1223	19	0
2	Cf	1244	0	1223	27	0
2	Cg	1252	0	1232	25	0
2	Ch	1252	0	1232	14	0
2	Ci	1252	0	1232	30	0
2	Cj	1244	0	1223	28	0
2	Ck	1252	0	1232	39	0
3	1	1700	0	1698	32	0
3	2	2027	0	2056	38	0
3	x	2027	0	2056	48	0
4	3	1469	0	1476	26	0
4	y	1469	0	1476	16	0
4	z	1469	0	1476	24	0
5	A	338	0	340	8	0
5	B	751	0	746	28	0
5	C	751	0	746	21	0
6	A0	1017	0	1002	44	0
6	BN	614	0	605	18	0
7	A1	1828	0	1841	69	0
7	A2	385	0	393	13	0
7	A3	1200	0	524	21	0
7	A4	546	0	243	21	0
7	A5	762	0	329	14	0
7	A6	369	0	368	14	0
7	A7	1726	0	1752	73	0
7	A8	1281	0	1280	56	0
7	A9	879	0	891	20	0
7	Au	540	0	547	14	0
7	Av	1126	0	1130	47	0
7	Aw	1009	0	1021	32	0
7	Ay	1412	0	1408	43	0
7	Az	313	0	324	10	0
8	AA	3413	0	3329	60	0
8	AC	3428	0	3350	55	0
8	AE	3428	0	3350	67	0
8	AG	3428	0	3350	47	0
8	AI	3428	0	3350	48	0
8	AK	3428	0	3350	60	0
8	AM	3421	0	3341	47	0
8	BA	3355	0	3275	80	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	BC	3415	0	3336	61	0
8	BE	3363	0	3287	59	0
8	BG	3421	0	3341	66	0
8	BI	3357	0	3282	72	0
8	BK	3407	0	3332	76	0
8	BM	3363	0	3287	61	0
8	CA	3407	0	3324	76	0
8	CC	3415	0	3336	78	0
8	CE	3415	0	3336	73	0
8	CG	3400	0	3323	67	0
8	CI	3415	0	3336	56	0
8	CK	3415	0	3336	74	0
8	CM	3415	0	3336	63	0
8	DA	2965	0	2916	79	0
8	DC	3349	0	3278	80	0
8	DE	3349	0	3278	78	0
8	DG	3370	0	3295	60	0
8	DI	3348	0	3274	83	0
8	DK	3342	0	3267	72	0
8	DM	3342	0	3269	81	0
8	EC	3392	0	3316	89	0
8	EE	3421	0	3341	75	0
8	EG	3407	0	3332	72	0
8	EI	3400	0	3323	68	0
8	EK	3413	0	3334	88	0
8	EM	3349	0	3277	79	0
8	FC	3357	0	3282	79	0
8	FE	3323	0	3254	78	0
8	FG	3363	0	3287	87	0
8	FI	3325	0	3257	97	0
8	FK	3350	0	3275	74	0
8	FM	3356	0	3280	49	0
8	GC	3421	0	3341	68	0
8	GE	3370	0	3296	53	0
8	GG	3384	0	3305	66	0
8	GI	3398	0	3320	71	0
8	GK	3364	0	3284	61	0
8	GM	3421	0	3341	65	0
8	HC	3357	0	3282	55	0
8	HE	3357	0	3282	72	0
8	HG	3370	0	3296	63	0
8	HI	3362	0	3292	59	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	HK	3370	0	3296	71	0
8	HM	3393	0	3316	43	0
8	HO	3035	0	2964	63	0
8	IC	3384	0	3305	57	0
8	IE	3363	0	3287	49	0
8	IG	3421	0	3341	61	0
8	II	3371	0	3291	60	0
8	IK	3400	0	3323	79	0
8	IM	3407	0	3332	46	0
8	IO	3348	0	3274	63	0
8	JC	3382	0	3303	54	0
8	JE	3363	0	3287	48	0
8	JG	3349	0	3278	50	0
8	JI	3357	0	3282	56	0
8	JK	3415	0	3336	68	0
8	JM	3363	0	3287	55	0
8	KC	3389	0	3303	56	0
8	KE	3371	0	3291	46	0
8	KG	3361	0	3285	65	0
8	KI	3349	0	3278	49	0
8	KK	3371	0	3291	33	0
8	KM	3383	0	3300	33	0
8	KO	3229	0	3135	49	0
8	LC	3428	0	3350	64	0
8	LE	3465	0	3378	28	0
8	LG	3428	0	3350	46	0
8	LI	3465	0	3378	42	0
8	LK	3428	0	3350	49	0
8	LM	3404	0	3323	45	0
8	MC	3421	0	3341	43	0
8	ME	3357	0	3282	62	0
8	MG	3377	0	3295	60	0
8	MI	3369	0	3292	62	0
8	MK	3428	0	3350	61	0
8	MM	3407	0	3324	62	0
8	NA	3333	0	3262	61	0
8	NC	3343	0	3273	81	0
8	NE	3363	0	3287	54	0
8	NG	3363	0	3287	64	0
8	NI	3357	0	3282	68	0
8	NK	3357	0	3282	67	0
8	OA	3349	0	3270	66	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	OC	3357	0	3282	90	0
8	OE	3378	0	3300	84	0
8	OG	3375	0	3294	73	0
8	OI	3378	0	3300	77	0
8	OK	3365	0	3286	69	0
8	PA	3363	0	3279	64	0
8	PC	3385	0	3302	92	0
8	PE	3371	0	3291	89	0
8	PG	3384	0	3305	80	0
8	PI	3341	0	3266	82	0
8	PK	3355	0	3283	65	0
8	PM	3369	0	3292	68	0
8	QA	3347	0	3271	65	0
8	QC	3349	0	3278	98	0
8	QE	3363	0	3287	87	0
8	QG	3371	0	3290	88	0
8	QI	3349	0	3278	101	0
8	QK	3363	0	3286	88	0
8	QM	3369	0	3292	93	0
8	RA	3355	0	3274	93	0
8	RC	3378	0	3299	86	0
8	RE	3357	0	3282	87	0
8	RG	3376	0	3301	81	0
8	RI	3376	0	3301	98	0
8	RK	3384	0	3305	83	0
8	RM	3348	0	3274	90	0
8	SA	3349	0	3269	77	0
8	SC	3363	0	3288	95	0
8	SE	3372	0	3295	106	0
8	SG	3370	0	3296	81	0
8	SI	3341	0	3263	93	0
8	SK	3378	0	3300	78	0
8	SM	3363	0	3286	84	0
8	TC	3357	0	3282	71	0
8	TE	3378	0	3300	89	0
8	TG	3355	0	3283	66	0
8	TI	3363	0	3287	66	0
8	TK	3371	0	3291	82	0
8	TM	3363	0	3287	75	0
8	UC	3371	0	3291	53	0
8	UE	3371	0	3291	63	0
8	UG	3375	0	3294	45	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	UI	3371	0	3291	55	0
8	UK	3363	0	3287	67	0
8	UM	3357	0	3282	59	0
8	VC	3400	0	3323	67	0
8	VE	3365	0	3291	77	0
8	VG	3421	0	3341	83	0
8	VI	3350	0	3273	74	0
8	VK	3407	0	3332	84	0
8	VM	3377	0	3296	59	0
8	WC	3407	0	3332	76	0
8	WE	3361	0	3285	68	0
8	WG	3400	0	3323	71	0
8	WI	3357	0	3282	77	0
8	WK	3407	0	3332	80	0
8	WM	3363	0	3287	65	0
9	AB	3424	0	3290	46	0
9	AD	3424	0	3291	76	0
9	AF	3424	0	3292	68	0
9	AH	3424	0	3290	71	0
9	AJ	3424	0	3291	61	0
9	AL	3383	0	3256	69	0
9	BB	3348	0	3235	75	0
9	BD	3348	0	3235	65	0
9	BF	3361	0	3244	70	0
9	BH	3356	0	3239	50	0
9	BJ	3356	0	3239	61	0
9	BL	3340	0	3223	80	0
9	CB	3348	0	3235	83	0
9	CD	3339	0	3226	68	0
9	CF	3348	0	3236	64	0
9	CH	3348	0	3234	76	0
9	CJ	3348	0	3234	84	0
9	CL	3340	0	3222	69	0
9	DB	3348	0	3236	97	0
9	DD	3348	0	3236	77	0
9	DF	3348	0	3233	77	0
9	DH	3348	0	3236	103	0
9	DJ	3348	0	3236	91	0
9	DL	3340	0	3224	69	0
9	DN	3035	0	2929	66	0
9	EB	3348	0	3235	87	0
9	ED	3348	0	3235	72	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	EF	3348	0	3235	73	0
9	EH	3356	0	3239	82	0
9	EJ	3348	0	3235	75	0
9	EL	3340	0	3223	62	0
9	EN	3348	0	3235	67	0
9	FB	3348	0	3236	83	0
9	FD	3356	0	3240	67	0
9	FF	3348	0	3236	69	0
9	FH	3361	0	3245	74	0
9	FJ	3348	0	3236	68	0
9	FL	3340	0	3224	70	0
9	FN	3361	0	3245	68	0
9	GB	3361	0	3245	53	0
9	GD	3356	0	3240	48	0
9	GF	3361	0	3245	64	0
9	GH	3361	0	3245	75	0
9	GJ	3361	0	3243	62	0
9	GL	3340	0	3224	73	0
9	GN	3356	0	3240	53	0
9	HB	3348	0	3236	58	0
9	HD	3356	0	3240	67	0
9	HF	3348	0	3236	77	0
9	HH	3356	0	3240	59	0
9	HJ	3361	0	3245	71	0
9	HL	3340	0	3223	62	0
9	HN	3356	0	3238	62	0
9	IB	2892	0	2820	54	0
9	ID	3356	0	3240	65	0
9	IF	3356	0	3240	61	0
9	IH	3348	0	3236	74	0
9	IJ	3356	0	3240	76	0
9	IL	3348	0	3236	73	0
9	IN	3348	0	3235	73	0
9	JB	3348	0	3236	62	0
9	JD	3356	0	3240	70	0
9	JF	3348	0	3236	66	0
9	JH	3348	0	3236	64	0
9	JJ	3348	0	3236	61	0
9	JL	3348	0	3236	77	0
9	JN	3348	0	3236	47	0
9	KB	3165	0	3063	53	0
9	KD	3368	0	3252	69	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	KF	3356	0	3240	58	0
9	KH	3368	0	3252	64	0
9	KJ	3348	0	3236	52	0
9	KL	3368	0	3252	54	0
9	KN	3361	0	3245	51	0
9	LB	3433	0	3299	52	0
9	LD	3356	0	3240	66	0
9	LF	3424	0	3293	47	0
9	LH	3361	0	3245	50	0
9	LJ	3433	0	3299	44	0
9	LL	3348	0	3236	59	0
9	LN	3433	0	3299	66	0
9	MB	3348	0	3236	56	0
9	MD	3368	0	3252	62	0
9	MF	3368	0	3252	74	0
9	MH	3368	0	3252	56	0
9	MJ	3348	0	3236	61	0
9	ML	3368	0	3252	56	0
9	MN	3368	0	3252	58	0
9	N0	3339	0	3228	86	0
9	NB	3348	0	3235	54	0
9	ND	3356	0	3240	66	0
9	NF	3348	0	3234	72	0
9	NH	3361	0	3245	79	0
9	NJ	3361	0	3245	62	0
9	NL	3339	0	3228	61	0
9	O0	3078	0	2980	68	0
9	OB	3356	0	3240	70	0
9	OD	3327	0	3219	71	0
9	OF	3339	0	3225	82	0
9	OH	3361	0	3244	80	0
9	OJ	3356	0	3240	74	0
9	OL	3327	0	3219	79	0
9	PB	3356	0	3240	81	0
9	PD	3356	0	3238	103	0
9	PF	3356	0	3240	83	0
9	PH	3356	0	3240	83	0
9	PJ	3361	0	3245	105	0
9	PL	3340	0	3224	69	0
9	QB	3361	0	3244	94	0
9	QD	3356	0	3238	91	0
9	QF	3356	0	3239	100	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	QH	3348	0	3235	103	0
9	QJ	3348	0	3235	105	0
9	QL	3348	0	3235	113	0
9	RB	3361	0	3243	111	0
9	RD	3356	0	3240	97	0
9	RF	3356	0	3240	76	0
9	RH	3361	0	3245	92	0
9	RJ	3361	0	3245	111	0
9	RL	3348	0	3236	109	0
9	SB	3361	0	3245	83	0
9	SD	3356	0	3240	82	0
9	SF	3361	0	3243	85	0
9	SH	3361	0	3245	76	0
9	SJ	3361	0	3245	87	0
9	SL	3348	0	3236	67	0
9	TB	3356	0	3240	75	0
9	TD	3356	0	3240	68	0
9	TF	3361	0	3245	75	0
9	TH	3361	0	3245	82	0
9	TJ	3361	0	3245	83	0
9	TL	3348	0	3236	91	0
9	UB	3348	0	3234	75	0
9	UD	3356	0	3238	73	0
9	UF	3356	0	3238	75	0
9	UH	3356	0	3240	67	0
9	UJ	3356	0	3238	87	0
9	UL	3348	0	3234	74	0
9	UN	3356	0	3238	78	0
9	VB	3348	0	3236	66	0
9	VD	3348	0	3236	82	0
9	VF	3348	0	3236	81	0
9	VH	3361	0	3245	75	0
9	VJ	3348	0	3236	96	0
9	VL	3348	0	3234	86	0
9	VN	3348	0	3236	88	0
9	WB	3348	0	3236	82	0
9	WD	3348	0	3236	92	0
9	WF	3348	0	3236	64	0
9	WH	3348	0	3236	61	0
9	WJ	3348	0	3236	78	0
9	WL	3348	0	3236	70	0
9	WN	3348	0	3236	62	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	AP	920	0	921	21	0
10	AQ	920	0	921	14	0
10	AR	735	0	753	8	0
10	AS	920	0	921	10	0
11	AT	2521	0	2557	53	0
11	AU	1855	0	1862	31	0
12	AV	2901	0	2864	50	0
12	AW	2947	0	2925	63	0
13	Aa	4829	0	4760	83	0
13	Ab	4935	0	4869	111	0
13	Ac	4948	0	4885	92	0
13	Ad	4235	0	4149	98	0
14	Al	338	0	329	15	0
14	Am	338	0	329	11	0
14	An	338	0	329	7	0
14	Ao	573	0	554	15	0
14	B7	686	0	670	17	0
14	BY	866	0	850	17	0
14	BZ	866	0	850	14	0
14	Ba	1587	0	1554	28	0
14	Bb	1587	0	1554	36	0
14	Bc	1575	0	1545	32	0
14	Bd	866	0	850	13	0
14	Be	866	0	850	14	0
14	CN	670	0	648	15	0
14	CO	697	0	683	15	0
15	Ap	1101	0	1073	26	0
15	Aq	766	0	758	21	0
15	Ar	1257	0	1227	33	0
16	At	772	0	753	38	0
16	Ax	914	0	905	42	0
17	B0	367	0	363	5	0
17	B1	300	0	290	11	0
17	B2	307	0	287	5	0
17	B3	200	0	180	3	0
17	B4	305	0	291	7	0
17	B8	320	0	308	5	0
17	B9	307	0	297	8	0
17	CQ	367	0	363	7	0
17	CR	316	0	309	6	0
17	CS	307	0	297	4	0
18	B5	2008	0	2070	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
18	B6	2040	0	2103	38	0
18	By	1316	0	1340	20	0
18	Bz	2008	0	2070	33	0
19	BO	1817	0	1832	37	0
19	BP	3394	0	3477	59	0
19	BQ	2989	0	3080	44	0
19	BR	3465	0	3546	74	0
20	BS	1192	0	1158	17	0
20	BT	1886	0	1816	53	0
21	BU	307	0	329	3	0
21	BV	3087	0	3058	46	0
21	Bi	352	0	345	5	0
21	Bj	2029	0	2007	33	0
21	Bk	1444	0	1441	28	0
22	BW	1586	0	1560	25	0
22	BX	424	0	426	12	0
23	Bf	508	0	487	9	0
23	Bg	950	0	898	23	0
24	Bh	775	0	745	21	0
25	Bl	635	0	150	5	0
25	Bm	640	0	148	6	0
25	Bn	690	0	159	2	0
25	Bo	715	0	166	8	0
25	Bp	815	0	187	8	0
26	Bq	782	0	757	14	0
26	Bu	1177	0	1169	20	0
27	Br	1380	0	1406	25	0
27	Bs	3042	0	3095	66	0
28	C0	851	0	879	20	0
28	C2	3314	0	3295	58	0
28	C3	3314	0	3295	44	0
28	C4	2779	0	2738	46	0
28	C5	1843	0	1883	34	0
28	C6	352	0	327	6	0
28	C7	3454	0	3424	40	0
28	C8	3446	0	3421	50	0
28	C9	3089	0	3075	53	0
28	DO	1041	0	981	21	0
28	F2	3411	0	3370	34	0
28	F3	3400	0	3349	66	0
28	F4	3141	0	3131	47	0
28	F5	873	0	901	11	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
28	F6	1047	0	973	25	0
29	C1	2710	0	2737	42	0
29	Cz	2435	0	2466	39	0
29	D0	569	0	599	12	0
29	D1	2933	0	2964	65	0
29	D2	3169	0	3184	54	0
29	D3	3160	0	3171	52	0
29	D4	3152	0	3164	58	0
29	D5	2961	0	2994	68	0
29	D6	1209	0	1144	18	0
29	D7	603	0	630	15	0
29	D8	3169	0	3184	48	0
29	D9	1305	0	1236	26	0
29	DP	1668	0	1609	20	0
29	DQ	2411	0	2441	33	0
29	DR	2151	0	2187	26	0
29	DS	2118	0	2156	44	0
29	DT	1373	0	1409	22	0
29	DU	2497	0	2511	45	0
29	DV	2502	0	2516	45	0
29	DW	2502	0	2516	55	0
29	DX	1897	0	1938	30	0
29	EA	3259	0	3271	51	0
29	EO	3251	0	3261	46	0
29	EP	2940	0	2934	64	0
29	EQ	1458	0	1522	44	0
29	ER	358	0	337	3	0
30	CW	1319	0	1281	27	0
31	Cl	977	0	957	21	0
32	Cm	3264	0	3327	58	0
32	Cn	3286	0	3356	46	0
32	Co	2845	0	2905	45	0
32	Cp	1690	0	1752	28	0
33	Cq	3427	0	3450	49	0
33	Cr	3386	0	3404	48	0
33	Cs	1496	0	1476	36	0
33	Ct	3147	0	3183	46	0
33	Cu	3055	0	3083	49	0
33	Cv	3436	0	3463	58	0
33	Cw	3436	0	3463	49	0
33	Cx	1611	0	1600	28	0
33	Cy	365	0	367	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
34	D	537	0	521	17	0
35	DY	308	0	284	6	0
35	DZ	416	0	403	7	0
35	Da	1095	0	1059	27	0
35	Ee	386	0	362	10	0
36	Db	450	0	433	6	0
36	Dc	442	0	422	8	0
36	Dd	406	0	389	9	0
37	De	545	0	518	19	0
38	Df	1060	0	1003	22	0
38	Dg	981	0	930	13	0
38	Dh	873	0	832	21	0
39	Di	632	0	642	9	0
39	Dj	806	0	818	11	0
39	Dk	806	0	818	20	0
39	Dl	806	0	818	16	0
40	Dm	725	0	696	15	0
41	Dn	468	0	487	15	0
42	E	1181	0	1179	30	0
42	F	3679	0	3659	75	0
43	E1	1648	0	1556	30	0
43	E2	1648	0	1556	31	0
43	E3	1641	0	1547	36	0
43	E4	1221	0	1150	26	0
44	ES	3483	0	3423	51	0
44	ET	2273	0	2194	36	0
44	EU	2692	0	2693	35	0
44	EV	3483	0	3423	56	0
44	EW	2601	0	2524	49	0
44	EX	3560	0	3499	52	0
44	EY	2552	0	2559	49	0
44	EZ	3615	0	3562	46	0
45	G	2317	0	2275	50	0
46	H	848	0	844	12	0
46	o	3401	0	3468	57	0
47	I	3689	0	3637	58	0
47	X	3692	0	3644	75	0
47	Y	3743	0	3691	68	0
48	J	951	0	957	28	0
48	K	951	0	957	17	0
48	L	891	0	891	10	0
48	M	728	0	728	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	K1	992	0	974	23	0
50	L1	1090	0	1070	35	0
50	L2	743	0	720	22	0
51	N	1173	0	1124	28	0
51	O	1134	0	1080	36	0
52	P	870	0	859	28	0
53	Q	919	0	839	16	0
54	R	1162	0	1151	29	0
54	S	1162	0	1151	23	0
54	T	1165	0	1159	17	0
54	U	818	0	795	13	0
55	W	990	0	965	27	0
56	XG	1512	0	1539	30	0
56	XH	1512	0	1539	39	0
56	XI	1512	0	1539	52	0
56	XJ	1512	0	1539	35	0
56	XK	1512	0	1539	31	0
56	XL	1503	0	1526	38	0
56	XM	1494	0	1515	30	0
57	YG	1706	0	1720	32	0
57	YH	1759	0	1766	33	0
57	YI	1759	0	1766	48	0
57	YJ	1759	0	1766	35	0
57	YK	1759	0	1766	25	0
57	YL	1759	0	1766	39	0
58	Z	1014	0	1025	12	0
58	p	459	0	477	10	0
58	q	829	0	838	21	0
59	a	1559	0	1626	38	0
59	b	2814	0	2869	79	0
59	c	2525	0	2598	56	0
59	d	1728	0	1771	30	0
60	e	4722	0	4705	101	0
60	f	4713	0	4699	101	0
60	g	4713	0	4699	107	0
61	h	785	0	787	26	0
62	i	2055	0	2024	36	0
62	j	2158	0	2128	32	0
63	k	1245	0	1232	23	0
63	l	1098	0	1092	21	0
63	m	1263	0	1243	30	0
63	n	908	0	887	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
64	ke	796	0	789	23	0
65	r	615	0	590	12	0
65	s	624	0	598	14	0
65	t	624	0	598	18	0
66	u	1081	0	1079	19	0
66	v	957	0	937	12	0
66	w	1081	0	1079	23	0
67	AA	32	0	11	1	0
67	AC	32	0	11	1	0
67	AD	32	0	11	0	0
67	AG	32	0	11	2	0
67	AH	32	0	11	0	0
67	AK	32	0	11	1	0
67	AM	32	0	11	0	0
67	BA	32	0	12	1	0
67	BC	32	0	12	3	0
67	BE	32	0	12	0	0
67	BG	32	0	12	1	0
67	BI	32	0	12	1	0
67	BK	32	0	12	2	0
67	BM	32	0	12	0	0
67	CA	32	0	12	2	0
67	CB	32	0	12	1	0
67	CD	32	0	12	1	0
67	CG	32	0	12	1	0
67	CH	32	0	12	1	0
67	CJ	32	0	12	1	0
67	CL	32	0	12	1	0
67	DA	32	0	12	1	0
67	DC	32	0	12	2	0
67	DE	32	0	12	1	0
67	DF	32	0	12	1	0
67	DI	32	0	12	1	0
67	DK	32	0	12	3	0
67	DM	32	0	12	2	0
67	EC	32	0	12	2	0
67	EE	32	0	12	0	0
67	EG	32	0	12	1	0
67	EI	32	0	12	1	0
67	EK	32	0	12	2	0
67	EM	32	0	12	2	0
67	FC	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
67	FE	32	0	12	0	0
67	FG	32	0	12	2	0
67	FI	32	0	12	0	0
67	FK	32	0	12	0	0
67	FM	32	0	12	0	0
67	GC	32	0	12	1	0
67	GE	32	0	12	0	0
67	GG	32	0	12	0	0
67	GI	32	0	12	1	0
67	GJ	32	0	12	1	0
67	GM	32	0	12	1	0
67	HC	32	0	12	2	0
67	HE	32	0	12	2	0
67	HG	32	0	12	1	0
67	HI	32	0	12	4	0
67	HK	32	0	12	2	0
67	HL	32	0	12	0	0
67	HN	32	0	12	0	0
67	IC	32	0	12	3	0
67	IE	32	0	12	1	0
67	IG	32	0	12	2	0
67	II	32	0	12	1	0
67	IK	32	0	12	1	0
67	IM	32	0	12	2	0
67	IN	32	0	12	1	0
67	JC	32	0	11	0	0
67	JE	32	0	12	0	0
67	JG	32	0	12	1	0
67	JI	32	0	12	3	0
67	JK	32	0	12	2	0
67	JM	32	0	12	1	0
67	KC	32	0	12	2	0
67	KE	32	0	12	0	0
67	KG	32	0	11	0	0
67	KI	32	0	12	0	0
67	KK	32	0	12	0	0
67	KM	32	0	12	0	0
67	KO	32	0	12	1	0
67	LC	32	0	12	0	0
67	LE	32	0	12	2	0
67	LG	32	0	12	0	0
67	LI	32	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
67	LK	32	0	12	1	0
67	LM	32	0	12	0	0
67	MC	32	0	12	3	0
67	ME	32	0	12	1	0
67	MG	32	0	12	3	0
67	MI	32	0	11	1	0
67	MK	32	0	12	1	0
67	MM	32	0	12	1	0
67	NA	32	0	12	2	0
67	NB	32	0	12	1	0
67	NE	32	0	12	1	0
67	NF	32	0	12	1	0
67	NI	32	0	12	1	0
67	NK	32	0	12	1	0
67	O0	32	0	12	2	0
67	OC	32	0	12	1	0
67	OE	32	0	12	5	0
67	OF	32	0	12	1	0
67	OH	32	0	12	2	0
67	OK	32	0	12	1	0
67	PA	32	0	12	1	0
67	PC	32	0	12	1	0
67	PD	32	0	12	4	0
67	PG	32	0	10	0	0
67	PI	32	0	12	3	0
67	PK	32	0	12	5	0
67	PM	32	0	12	1	0
67	QA	32	0	12	0	0
67	QC	32	0	12	1	0
67	QE	32	0	12	2	0
67	QG	32	0	12	1	0
67	QI	32	0	12	2	0
67	QK	32	0	12	3	0
67	QM	32	0	12	2	0
67	RA	32	0	12	0	0
67	RB	32	0	12	0	0
67	RE	32	0	12	0	0
67	RG	32	0	12	1	0
67	RI	32	0	11	4	0
67	RK	32	0	12	1	0
67	RM	32	0	12	2	0
67	SA	32	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
67	SC	32	0	12	1	0
67	SE	32	0	12	3	0
67	SF	32	0	12	2	0
67	SI	32	0	12	2	0
67	SK	32	0	12	2	0
67	SM	32	0	12	1	0
67	TC	32	0	12	2	0
67	TE	32	0	12	1	0
67	TG	32	0	12	3	0
67	TI	32	0	12	4	0
67	TK	32	0	12	2	0
67	TM	32	0	12	1	0
67	UC	32	0	12	3	0
67	UE	32	0	12	4	0
67	UG	32	0	12	2	0
67	UI	32	0	12	0	0
67	UK	32	0	12	1	0
67	UM	32	0	12	1	0
67	VC	32	0	12	3	0
67	VE	32	0	12	3	0
67	VG	32	0	12	1	0
67	VI	32	0	12	3	0
67	VK	32	0	12	1	0
67	VL	32	0	12	6	0
67	WC	32	0	12	1	0
67	WE	32	0	12	3	0
67	WG	32	0	12	2	0
67	WI	32	0	12	1	0
67	WK	32	0	12	0	0
67	WM	32	0	12	1	0
68	AA	1	0	0	0	0
68	AC	1	0	0	0	0
68	AE	1	0	0	0	0
68	AG	1	0	0	0	0
68	AI	1	0	0	0	0
68	AK	1	0	0	0	0
68	AM	1	0	0	0	0
68	BA	1	0	0	0	0
68	BC	1	0	0	0	0
68	BE	1	0	0	0	0
68	BG	1	0	0	0	0
68	BI	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
68	BK	1	0	0	0	0
68	BM	1	0	0	0	0
68	CA	1	0	0	0	0
68	CC	1	0	0	0	0
68	CE	1	0	0	0	0
68	CG	1	0	0	0	0
68	CI	1	0	0	0	0
68	CK	1	0	0	0	0
68	CM	1	0	0	0	0
68	DA	1	0	0	0	0
68	DC	1	0	0	0	0
68	DE	1	0	0	0	0
68	DG	1	0	0	0	0
68	DI	1	0	0	0	0
68	DK	1	0	0	0	0
68	DM	1	0	0	0	0
68	EC	1	0	0	0	0
68	EE	1	0	0	0	0
68	EG	1	0	0	0	0
68	EI	1	0	0	0	0
68	EJ	1	0	0	0	0
68	EM	1	0	0	0	0
68	FC	1	0	0	0	0
68	FE	1	0	0	0	0
68	FG	1	0	0	0	0
68	FI	1	0	0	0	0
68	FK	1	0	0	0	0
68	FM	1	0	0	0	0
68	GC	1	0	0	0	0
68	GE	1	0	0	0	0
68	GG	1	0	0	0	0
68	GI	1	0	0	0	0
68	GK	1	0	0	0	0
68	GM	1	0	0	0	0
68	HC	1	0	0	0	0
68	HE	1	0	0	0	0
68	HG	1	0	0	0	0
68	HI	1	0	0	0	0
68	HK	1	0	0	0	0
68	HM	1	0	0	0	0
68	HO	1	0	0	0	0
68	IC	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
68	IE	1	0	0	0	0
68	IG	1	0	0	0	0
68	II	1	0	0	0	0
68	IK	1	0	0	0	0
68	IM	1	0	0	0	0
68	IO	1	0	0	0	0
68	JC	1	0	0	0	0
68	JE	1	0	0	0	0
68	JG	1	0	0	0	0
68	JI	1	0	0	0	0
68	JK	1	0	0	0	0
68	JM	1	0	0	0	0
68	KC	1	0	0	0	0
68	KE	1	0	0	0	0
68	KG	1	0	0	0	0
68	KI	1	0	0	0	0
68	KK	1	0	0	0	0
68	KM	1	0	0	0	0
68	KN	1	0	0	0	0
68	LC	1	0	0	0	0
68	LE	1	0	0	0	0
68	LG	1	0	0	0	0
68	LI	1	0	0	0	0
68	LK	1	0	0	0	0
68	LL	1	0	0	0	0
68	MC	1	0	0	0	0
68	ME	1	0	0	0	0
68	MG	1	0	0	0	0
68	MI	1	0	0	0	0
68	MK	1	0	0	0	0
68	MM	1	0	0	0	0
68	NA	1	0	0	0	0
68	NC	1	0	0	0	0
68	NE	1	0	0	0	0
68	NG	1	0	0	0	0
68	NI	1	0	0	0	0
68	NK	1	0	0	0	0
68	OA	1	0	0	0	0
68	OC	1	0	0	0	0
68	OE	1	0	0	0	0
68	OG	1	0	0	0	0
68	OI	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
68	OK	1	0	0	0	0
68	PA	1	0	0	0	0
68	PC	1	0	0	0	0
68	PE	1	0	0	0	0
68	PG	1	0	0	0	0
68	PH	1	0	0	0	0
68	PK	1	0	0	0	0
68	PM	1	0	0	0	0
68	QA	1	0	0	0	0
68	QC	1	0	0	0	0
68	QE	1	0	0	0	0
68	QG	1	0	0	0	0
68	QI	1	0	0	0	0
68	QK	1	0	0	0	0
68	QM	1	0	0	0	0
68	RA	1	0	0	0	0
68	RC	1	0	0	0	0
68	RE	1	0	0	0	0
68	RG	1	0	0	0	0
68	RI	1	0	0	0	0
68	RK	1	0	0	0	0
68	RM	1	0	0	0	0
68	SA	1	0	0	0	0
68	SC	1	0	0	0	0
68	SE	1	0	0	0	0
68	SG	1	0	0	0	0
68	SI	1	0	0	0	0
68	SK	1	0	0	0	0
68	SM	1	0	0	0	0
68	TC	1	0	0	0	0
68	TE	1	0	0	0	0
68	TG	1	0	0	0	0
68	TH	1	0	0	0	0
68	TK	1	0	0	0	0
68	TM	1	0	0	0	0
68	UC	1	0	0	0	0
68	UE	1	0	0	0	0
68	UG	1	0	0	0	0
68	UI	1	0	0	0	0
68	UK	1	0	0	0	0
68	UM	1	0	0	0	0
68	VC	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
68	VE	1	0	0	0	0
68	VG	1	0	0	0	0
68	VI	1	0	0	0	0
68	VK	1	0	0	0	0
68	VM	1	0	0	0	0
68	WC	1	0	0	0	0
68	WE	1	0	0	0	0
68	WG	1	0	0	0	0
68	WI	1	0	0	0	0
68	WK	1	0	0	0	0
68	WM	1	0	0	0	0
69	AB	28	0	12	1	0
69	AD	28	0	12	0	0
69	AF	28	0	12	0	0
69	AH	28	0	12	0	0
69	AJ	28	0	12	0	0
69	AL	28	0	12	1	0
69	BB	28	0	12	1	0
69	BD	28	0	12	2	0
69	BF	28	0	12	2	0
69	BH	28	0	12	1	0
69	BJ	28	0	12	1	0
69	BL	28	0	12	1	0
69	CB	28	0	12	1	0
69	CD	28	0	12	3	0
69	CF	28	0	12	4	0
69	CH	28	0	12	2	0
69	CJ	28	0	12	1	0
69	CL	28	0	12	3	0
69	DB	28	0	12	3	0
69	DD	28	0	12	0	0
69	DF	28	0	12	2	0
69	DH	28	0	12	3	0
69	DJ	28	0	12	1	0
69	DL	28	0	12	1	0
69	DN	28	0	12	1	0
69	EB	28	0	12	0	0
69	ED	28	0	12	2	0
69	EF	28	0	12	0	0
69	EH	28	0	12	1	0
69	EJ	28	0	12	0	0
69	EL	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	EN	28	0	12	2	0
69	FB	28	0	12	0	0
69	FD	28	0	12	1	0
69	FF	28	0	12	1	0
69	FH	28	0	12	1	0
69	FJ	28	0	12	0	0
69	FL	28	0	12	0	0
69	FN	28	0	12	3	0
69	GB	28	0	12	1	0
69	GD	28	0	12	0	0
69	GF	28	0	12	1	0
69	GH	28	0	12	0	0
69	GJ	28	0	12	0	0
69	GL	28	0	12	2	0
69	GN	28	0	12	0	0
69	HB	28	0	12	2	0
69	HD	28	0	12	0	0
69	HF	28	0	12	1	0
69	HH	28	0	12	0	0
69	HJ	28	0	12	5	0
69	HL	28	0	12	0	0
69	HN	28	0	12	0	0
69	IB	28	0	11	1	0
69	ID	28	0	12	1	0
69	IF	28	0	12	1	0
69	IH	28	0	12	0	0
69	IJ	28	0	12	1	0
69	IL	28	0	12	2	0
69	IN	28	0	12	1	0
69	JB	28	0	12	0	0
69	JD	28	0	12	0	0
69	JF	28	0	12	3	0
69	JH	28	0	12	2	0
69	JJ	28	0	12	1	0
69	JL	28	0	12	1	0
69	JN	28	0	12	1	0
69	KB	28	0	12	1	0
69	KD	28	0	12	1	0
69	KF	28	0	12	0	0
69	KH	28	0	12	0	0
69	KJ	28	0	12	0	0
69	KL	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	KN	28	0	12	0	0
69	LB	28	0	11	0	0
69	LD	28	0	11	0	0
69	LF	28	0	11	0	0
69	LH	28	0	11	0	0
69	LJ	28	0	11	0	0
69	LL	28	0	11	1	0
69	LN	28	0	12	0	0
69	MB	28	0	11	1	0
69	MD	28	0	11	0	0
69	MF	28	0	11	0	0
69	MH	28	0	11	0	0
69	MJ	28	0	11	1	0
69	ML	28	0	11	1	0
69	MN	28	0	11	1	0
69	N0	28	0	11	1	0
69	NB	28	0	11	1	0
69	ND	28	0	11	0	0
69	NF	28	0	11	2	0
69	NH	28	0	10	0	0
69	NJ	28	0	11	2	0
69	NL	28	0	12	1	0
69	O0	28	0	12	1	0
69	OB	28	0	12	1	0
69	OD	28	0	12	2	0
69	OF	28	0	11	1	0
69	OH	28	0	12	2	0
69	OJ	28	0	12	1	0
69	OL	28	0	12	1	0
69	PB	28	0	11	3	0
69	PD	28	0	11	4	0
69	PF	28	0	11	2	0
69	PH	28	0	10	5	0
69	PJ	28	0	11	1	0
69	PL	28	0	11	1	0
69	QB	28	0	12	1	0
69	QD	28	0	12	3	0
69	QF	28	0	12	3	0
69	QH	28	0	12	2	0
69	QJ	28	0	12	1	0
69	QL	28	0	12	2	0
69	RB	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	RD	28	0	12	1	0
69	RF	28	0	12	0	0
69	RH	28	0	12	0	0
69	RJ	28	0	12	2	0
69	RL	28	0	12	1	0
69	SB	28	0	12	1	0
69	SD	28	0	12	0	0
69	SF	28	0	12	1	0
69	SH	28	0	12	0	0
69	SJ	28	0	12	0	0
69	SL	28	0	12	0	0
69	TB	28	0	12	0	0
69	TD	28	0	12	0	0
69	TF	28	0	12	2	0
69	TH	28	0	12	1	0
69	TJ	28	0	12	3	0
69	TL	28	0	12	0	0
69	UB	28	0	11	1	0
69	UD	28	0	11	0	0
69	UF	28	0	11	0	0
69	UH	28	0	12	4	0
69	UJ	28	0	11	1	0
69	UL	28	0	11	2	0
69	UN	28	0	11	0	0
69	VB	28	0	12	0	0
69	VD	28	0	12	4	0
69	VF	28	0	12	0	0
69	VH	28	0	12	2	0
69	VJ	28	0	12	2	0
69	VL	28	0	12	3	0
69	VN	28	0	12	4	0
69	WB	28	0	12	0	0
69	WD	28	0	12	1	0
69	WF	28	0	12	1	0
69	WH	28	0	12	1	0
69	WJ	28	0	12	0	0
69	WL	28	0	12	0	0
69	WN	28	0	12	1	0
All	All	1456841	0	1416075	25938	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 9.

All (25938) 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)
9:UL:253:LEU:O	9:UL:257:MET:HB2	1.56	1.03
9:CF:37:HIS:HE2	48:J:49:CYS:HG	1.04	1.01
13:Ac:316:GLN:N	13:Ac:316:GLN:HE21	1.58	1.00
9:PF:253:LEU:O	9:PF:257:MET:HB2	1.62	0.99
9:NL:186:THR:HG21	9:NL:385:PHE:HE2	1.29	0.95
8:BI:72:PRO:O	8:BI:76:ASP:HB2	1.68	0.93
9:QL:253:LEU:O	9:QL:257:MET:HB2	1.69	0.93
11:AT:137:LEU:HD13	27:Bs:327:GLU:HG3	1.51	0.93
13:Aa:316:GLN:N	13:Aa:316:GLN:HE21	1.64	0.93
9:VJ:199:THR:HG1	9:VJ:264:HIS:HE2	1.15	0.93
28:F4:144:GLN:O	28:F4:148:GLU:HB2	1.68	0.93
19:BO:87:PRO:HD2	19:BO:88:PRO:HD3	1.51	0.92
9:RL:113:VAL:HG11	9:RL:154:LYS:HZ2	1.32	0.92
3:2:141:VAL:HG13	3:2:142:LEU:HD12	1.52	0.92
9:PH:330:MET:HE3	9:PH:351:THR:HG21	1.51	0.92
9:RJ:121:ARG:O	9:RJ:125:GLU:HB2	1.71	0.91
8:QC:21:TRP:CH2	8:QC:63:PRO:HB3	2.07	0.90
9:BH:362:LYS:NZ	14:BY:270:HIS:O	2.05	0.90
9:QH:253:LEU:O	9:QH:257:MET:HB2	1.71	0.89
41:Dn:210:LYS:HA	9:OF:390:ARG:HH12	1.37	0.89
9:SB:167:PHE:HE1	9:SB:233:MET:HG2	1.34	0.89
43:E1:101:ARG:HH21	28:F2:415:MET:HE1	1.36	0.89
9:AF:336:LYS:HD3	57:YJ:47:MET:HA	1.54	0.89
1:V:79:ARG:HH12	1:V:80:ARG:HE	1.21	0.89
9:AD:334:GLN:HE22	9:AD:348:ASN:H	1.20	0.88
8:WM:1:MET:HE2	9:WN:70:PRO:HG2	1.56	0.88
44:EX:238:VAL:HG12	44:EY:351:LYS:HB3	1.56	0.88
2:0c:34:ARG:NH1	2:0c:39:ASP:O	2.07	0.88
56:XG:141:ARG:HH12	56:XG:147:ASN:HB3	1.38	0.88
8:QE:76:ASP:HA	8:QE:79:ARG:HE	1.38	0.88
9:TF:293:MET:HG2	9:TF:367:PHE:HD2	1.36	0.87
54:U:273:GLN:HB3	54:U:282:THR:HG22	1.54	0.87
5:B:169:LEU:HD11	5:B:174:LEU:HD12	1.56	0.87
8:RE:381:THR:HG22	8:RE:383:ALA:H	1.40	0.86
13:Ab:283:GLN:HA	9:CJ:276:ARG:HH22	1.39	0.86
29:DP:164:GLU:OE2	29:DP:165:ARG:NH1	2.07	0.86
32:Cn:248:GLN:HE21	33:Cq:241:GLU:HG2	1.41	0.86
33:Cq:130:LYS:HE2	33:Cs:13:ARG:HH12	1.39	0.86
44:EZ:348:ALA:HA	44:EZ:351:LYS:HZ3	1.40	0.86
54:S:167:ASN:HD22	54:S:167:ASN:N	1.67	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ac:634:GLU:HG2	13:Ac:636:LYS:HD3	1.58	0.86
8:PA:56:THR:HG22	8:PA:58:ALA:H	1.39	0.86
8:SI:7:ILE:HB	8:SI:137:ILE:HG22	1.57	0.86
9:CJ:209:ASP:HB3	9:CJ:213:ARG:HH12	1.40	0.85
9:OF:324:LYS:HE3	8:OG:222:PRO:HD2	1.58	0.85
9:BB:1:MET:HE1	9:BB:2:ARG:HE	1.42	0.85
8:DC:9:VAL:HG22	8:DC:139:HIS:HB2	1.58	0.85
9:EN:133:PHE:HB2	9:EN:164:MET:HE1	1.58	0.85
9:PB:153:SER:HA	9:PB:195:ASN:HD21	1.42	0.85
12:AV:48:LYS:NZ	9:IH:77:ARG:O	2.09	0.84
56:XJ:29:VAL:HG11	57:YJ:206:ASN:HD21	1.42	0.84
9:TB:280:GLN:HE22	46:o:523:LEU:HD21	1.38	0.84
9:PL:253:LEU:O	9:PL:257:MET:HB2	1.77	0.84
13:Aa:259:ASP:HB3	9:DN:216:LYS:HD2	1.60	0.84
8:EG:392:ASP:OD1	8:EG:422:ARG:NH1	2.10	0.84
29:C1:411:CYS:SG	29:DP:148:ARG:NH2	2.52	0.83
13:Ad:266:GLN:HE21	13:Ad:268:ARG:HH12	1.23	0.83
8:OG:115:VAL:HG11	8:OG:152:LEU:HD22	1.59	0.83
9:VB:232:THR:HG21	9:VB:300:MET:HE1	1.61	0.83
9:JL:306:ARG:HH12	51:O:13:LYS:HA	1.43	0.83
8:LM:90:GLU:HB2	8:LM:121:ARG:HH12	1.42	0.83
8:PG:72:PRO:O	8:PG:76:ASP:HB2	1.79	0.83
8:BI:88:HIS:HE1	8:CI:284:GLU:HB3	1.43	0.82
29:C1:392:LEU:HB2	29:C1:426:ILE:HG21	1.61	0.82
9:TB:49:VAL:HG11	9:TB:241:ARG:HG2	1.60	0.82
9:UD:32:PRO:HD3	9:UD:81:PHE:HE1	1.43	0.82
62:j:150:GLY:HA3	62:j:159:MET:HE1	1.61	0.82
2:0c:5:VAL:O	2:0c:9:LEU:HB2	1.80	0.82
7:A8:175:ASP:O	7:A8:178:LYS:NZ	2.12	0.82
8:CG:255:PHE:O	8:CG:259:LEU:HB2	1.79	0.82
9:PL:331:LEU:HD11	8:PM:176:GLN:HB3	1.61	0.82
8:SK:64:ARG:HH12	8:SK:128:LEU:HD11	1.44	0.82
15:Ar:122:ARG:NH1	32:Cn:248:GLN:OE1	2.12	0.82
2:Cb:66:ILE:HD12	2:Cb:69:MET:HE3	1.60	0.82
9:EJ:183:TYR:HE1	9:EJ:395:LEU:HD11	1.43	0.82
9:AB:334:GLN:HE22	9:AB:348:ASN:H	1.24	0.81
9:DJ:8:GLN:HE22	9:DJ:17:GLY:HA3	1.44	0.81
9:IL:66:VAL:HG21	9:IL:147:MET:HE2	1.62	0.81
9:VH:199:THR:HG1	9:VH:264:HIS:HE2	1.26	0.81
2:0a:80:LEU:HD11	2:0a:149:MET:HE1	1.62	0.81
7:Av:138:GLY:H	8:NK:123:ARG:HH12	1.29	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Cl:291:GLN:HE22	42:E:775:ALA:HB2	1.44	0.81
8:EE:157:LEU:HB3	8:EE:166:LYS:HZ1	1.44	0.81
51:O:37:TRP:HE1	51:O:91:GLN:HG2	1.43	0.81
18:B6:108:PHE:O	18:B6:112:ASN:HB2	1.81	0.81
29:DX:238:ARG:NH2	29:DX:323:GLU:OE1	2.14	0.81
9:CB:112:LEU:HB3	9:CB:147:MET:HE1	1.60	0.81
44:EX:308:CYS:HB3	44:EX:427:ARG:HH21	1.43	0.81
9:ED:324:LYS:HG2	8:EE:222:PRO:HD2	1.62	0.81
9:WL:170:VAL:HG11	9:WL:377:LEU:HD11	1.63	0.81
59:d:394:GLU:HG3	59:d:398:ARG:HH12	1.45	0.81
2:0i:66:ILE:HA	2:0i:69:MET:HE3	1.63	0.81
9:HD:8:GLN:HE21	9:HD:65:LEU:HD22	1.46	0.81
9:VH:103:LYS:NZ	9:VH:401:GLU:OE2	2.14	0.81
9:CL:253:LEU:O	9:CL:257:MET:HB2	1.81	0.81
9:PH:321:MET:SD	8:PI:221:ARG:NH2	2.54	0.80
16:At:278:HIS:H	9:FH:297:LYS:HZ1	1.26	0.80
9:DJ:273:LEU:HB2	9:DJ:292:GLN:HE22	1.44	0.80
8:RE:175:PRO:HB2	8:RE:390:ARG:HH21	1.45	0.80
9:TJ:207:LEU:HB3	9:TJ:225:LEU:HD11	1.63	0.80
9:EL:121:ARG:O	9:EL:125:GLU:HB2	1.82	0.80
44:ES:81:SER:HA	44:EV:394:LYS:HZ1	1.43	0.80
9:WD:380:ARG:HA	9:WD:383:GLU:HG2	1.62	0.80
9:CD:207:LEU:HB3	9:CD:225:LEU:HD22	1.64	0.80
9:IN:282:ARG:HH22	9:IN:288:GLU:HB3	1.45	0.80
9:TF:3:GLU:OE1	9:TF:62:ARG:NH1	2.14	0.80
8:QA:137:ILE:HB	8:QA:168:GLU:HB2	1.64	0.80
8:KC:153:LEU:O	8:KC:157:LEU:HB2	1.82	0.80
7:A8:242:HIS:HB2	9:TF:297:LYS:HE3	1.64	0.80
2:0a:54:MET:O	2:0a:64:ARG:NH2	2.15	0.80
7:A7:162:SER:HB2	9:SD:337:ASN:HD21	1.46	0.80
2:Ck:84:PHE:HE2	2:Ck:149:MET:HB3	1.47	0.80
8:FI:69:ASP:OD1	8:FI:70:LEU:N	2.14	0.80
7:Aw:55:GLY:H	9:OD:306:ARG:HH22	1.30	0.80
8:CE:311:LYS:HD3	8:CE:342:GLN:HE21	1.47	0.80
8:EM:151:SER:HB2	8:EM:193:THR:HG21	1.62	0.80
8:GM:326:LYS:NZ	9:GN:220:PRO:O	2.13	0.80
8:JC:279:GLU:HG3	8:JC:280:LYS:HG3	1.62	0.80
9:LL:143:THR:O	9:LL:147:MET:HB2	1.82	0.80
9:NL:186:THR:HG21	9:NL:385:PHE:CE2	2.16	0.80
9:UD:324:LYS:HZ1	8:UE:221:ARG:HA	1.46	0.80
9:WJ:306:ARG:HE	9:WJ:340:TYR:HE2	1.28	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CF:256:ASN:HD21	8:CG:101:ASN:HD22	1.28	0.79
8:QC:72:PRO:O	8:QC:76:ASP:HB2	1.82	0.79
9:TH:245:GLN:NE2	9:TH:355:ASP:OD1	2.15	0.79
33:Cu:59:ASP:HB3	33:Cu:63:ARG:HH12	1.47	0.79
39:Dk:46:ARG:HH12	8:LI:336:LYS:HB3	1.46	0.79
9:HF:229:VAL:O	9:HF:233:MET:HB2	1.80	0.79
52:P:31:ASN:OD1	52:P:35:GLN:NE2	2.15	0.79
9:UB:209:ASP:OD1	9:UB:213:ARG:NH1	2.15	0.79
8:DA:231:ILE:HA	8:DA:234:ILE:HD12	1.64	0.79
15:Ar:147:ARG:HE	47:X:178:GLY:HA2	1.46	0.79
29:D3:363:GLN:NE2	29:D6:110:GLU:OE1	2.14	0.79
9:IF:320:ARG:HH21	9:IF:355:ASP:HB3	1.47	0.79
9:LL:173:PRO:HB3	9:LL:380:ARG:HH11	1.48	0.79
9:SJ:334:GLN:HE22	9:SJ:348:ASN:H	1.25	0.79
8:HE:326:LYS:HE3	9:HF:219:THR:HA	1.64	0.79
9:UD:280:GLN:NE2	59:c:288:MET:SD	2.56	0.79
8:CA:227:LEU:HD11	67:CA:501:GTP:HN1	1.49	0.78
7:A7:126:ALA:HB2	9:SF:306:ARG:HD3	1.65	0.78
9:RH:325:GLU:OE2	8:RI:221:ARG:NH1	2.16	0.78
7:A8:225:LYS:NZ	7:A8:228:MET:SD	2.57	0.78
14:CO:28:ARG:HD2	8:EG:221:ARG:HH12	1.48	0.78
8:DA:317:MET:HE2	8:DA:353:VAL:HG22	1.65	0.78
8:TI:234:ILE:HD11	8:TI:272:TYR:HB2	1.64	0.78
63:k:41:MET:SD	63:k:41:MET:N	2.56	0.78
33:Cq:282:GLN:OE1	33:Cs:32:ARG:NH2	2.17	0.78
28:F3:414:ASP:HB3	28:F6:149:ARG:HH12	1.48	0.78
9:JF:289:LEU:O	9:JF:293:MET:HB2	1.84	0.78
9:VD:100:ASN:HD22	9:VD:103:LYS:HE3	1.47	0.78
56:XJ:141:ARG:HH21	56:XJ:147:ASN:HB3	1.48	0.78
8:CA:16:ILE:O	8:CA:20:CYS:HB3	1.84	0.78
8:SE:324:VAL:HG11	9:SF:219:THR:HB	1.65	0.78
9:VL:26:ASP:OD1	9:VL:359:ARG:NH1	2.16	0.78
8:QC:402:ARG:HD2	8:QC:405:VAL:HG21	1.64	0.78
8:RC:402:ARG:HG3	8:RC:405:VAL:HG11	1.66	0.78
2:0g:15:LYS:HB3	2:0g:73:ILE:HD11	1.64	0.78
9:KJ:132:GLY:HA3	9:KJ:163:ILE:HG22	1.65	0.78
9:BB:287:PRO:HA	9:BB:329:GLN:HE22	1.49	0.78
35:Da:89:ASN:HD22	35:Da:158:SER:HA	1.49	0.78
9:JF:61:PRO:HG2	9:JF:85:PHE:HA	1.63	0.78
8:QA:115:VAL:HG21	8:QA:152:LEU:HD22	1.64	0.78
8:WE:26:LEU:HD11	8:WE:364:PRO:HD2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DA:2:ARG:HA	8:DA:133:GLN:HE22	1.47	0.78
28:C8:419:ARG:HE	28:DO:145:ASN:HD22	1.31	0.77
8:GG:382:THR:HA	8:GG:432:TYR:HE2	1.48	0.77
9:HN:141:GLY:O	9:HN:184:ASN:ND2	2.16	0.77
9:OH:248:ALA:HA	9:OH:252:LYS:HD3	1.67	0.77
9:EH:173:PRO:HB3	9:EH:380:ARG:HE	1.49	0.77
8:NK:211:ASP:HB3	8:NK:215:ARG:HH22	1.49	0.77
12:AW:288:VAL:HG21	61:h:70:ARG:HH21	1.50	0.77
8:UC:277:SER:OG	8:UC:279:GLU:OE1	2.02	0.77
2:0A:55:GLU:OE1	2:0C:10:ARG:NH2	2.17	0.77
9:RL:90:PHE:HB3	9:RL:92:PHE:HE2	1.49	0.77
9:SJ:100:ASN:HD22	9:SJ:103:LYS:HD3	1.49	0.77
9:WB:322:SER:HB3	8:WC:221:ARG:HG2	1.67	0.77
5:B:118:LYS:NZ	8:VG:79:ARG:O	2.17	0.77
27:Bs:321:ARG:HG3	27:Bs:322:GLN:HE22	1.47	0.77
7:Ay:43:PRO:HA	8:FK:96:LYS:HE2	1.67	0.77
44:ES:77:GLN:NE2	44:EV:397:GLU:OE2	2.17	0.77
9:DB:256:ASN:HD21	8:DC:180:ALA:HA	1.50	0.77
8:JC:108:TYR:O	8:JC:112:LYS:NZ	2.18	0.77
9:AL:96:GLY:O	9:AL:103:LYS:NZ	2.18	0.77
9:LD:191:GLN:O	9:LD:195:ASN:HB2	1.85	0.77
9:QJ:324:LYS:O	9:QJ:328:GLU:HB3	1.85	0.77
9:RB:324:LYS:HA	8:RC:210:TYR:HE2	1.49	0.77
62:j:46:LEU:O	62:j:50:LEU:HB2	1.84	0.77
13:Ac:248:ILE:HG23	13:Ac:264:PHE:HB3	1.68	0.76
8:DI:259:LEU:HD11	8:DI:316:CYS:HB2	1.66	0.76
9:QL:346:PRO:HD2	9:QL:347:ASN:H	1.50	0.76
8:SE:329:ASN:C	8:SE:329:ASN:HD22	1.92	0.76
13:Ab:633:ARG:HE	47:I:502:ARG:HH12	1.32	0.76
2:CT:63:ASP:HB2	2:CT:64:ARG:HH21	1.49	0.76
9:AJ:372:THR:HG21	9:AJ:426:GLN:HB2	1.67	0.76
9:DN:52:ASN:HB3	9:DN:62:ARG:HH21	1.50	0.76
7:A7:30:TYR:O	8:SK:308:ARG:NH2	2.19	0.76
23:Bg:41:PRO:HD3	23:Bg:73:MET:HE1	1.66	0.76
29:D9:251:HIS:NE2	29:EQ:202:GLU:OE1	2.19	0.76
36:Dc:190:TRP:HB2	36:Dc:191:ARG:HH21	1.51	0.76
9:KD:291:GLN:HG2	9:LD:122:LYS:HZ1	1.49	0.76
8:LE:295:CYS:HB3	8:LE:377:MET:HE2	1.67	0.76
8:NC:66:VAL:HA	8:NC:91:GLN:HB2	1.66	0.76
8:PG:408:TYR:HB3	8:PG:413:MET:HE2	1.68	0.76
9:TL:1:MET:SD	8:TM:96:LYS:NZ	2.58	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VF:207:LEU:HB3	9:VF:225:LEU:HD22	1.66	0.76
8:WI:317:MET:HE1	8:WI:375:VAL:HG13	1.66	0.76
18:B5:231:GLN:NE2	9:WJ:218:THR:OG1	2.19	0.76
8:EK:62:VAL:HG13	8:EK:64:ARG:HH12	1.50	0.76
63:m:128:LEU:HD23	63:m:165:VAL:HG11	1.67	0.76
7:Av:238:PHE:HB3	9:OF:306:ARG:HH12	1.48	0.76
9:FF:178:THR:HB	9:FF:181:GLU:HB3	1.68	0.76
9:BF:165:ASN:ND2	9:BF:198:GLU:OE2	2.18	0.76
22:BX:37:ARG:NH2	8:IO:83:TYR:OH	2.18	0.76
8:VK:311:LYS:HZ3	8:VK:436:GLY:HA2	1.49	0.76
9:EF:73:MET:HE1	9:EF:92:PHE:HB3	1.68	0.76
30:CW:291:GLU:OE2	8:IG:79:ARG:NH1	2.18	0.76
8:BI:107:HIS:O	8:BI:112:LYS:NZ	2.18	0.76
9:RD:323:MET:SD	9:RD:323:MET:N	2.58	0.76
8:SE:323:VAL:HG11	8:SE:355:ILE:HG13	1.68	0.76
9:SL:323:MET:SD	9:SL:323:MET:N	2.55	0.76
8:TC:88:HIS:CE1	8:TC:90:GLU:HB2	2.21	0.76
13:Ac:316:GLN:N	13:Ac:316:GLN:NE2	2.31	0.75
21:Bk:303:ARG:HH11	21:Bk:304:GLN:HG3	1.51	0.75
9:OL:189:VAL:HG11	9:OL:415:MET:HE2	1.68	0.75
8:CI:195:LEU:HD21	8:CI:428:LEU:HD12	1.68	0.75
50:L2:41:HIS:NE2	59:b:235:GLN:OE1	2.19	0.75
33:Cu:202:LYS:HE2	33:Cy:316:THR:HA	1.67	0.75
9:WD:253:LEU:O	9:WD:257:MET:HB2	1.86	0.75
46:o:344:GLU:HG2	46:o:347:ARG:HH22	1.52	0.75
2:Ce:23:GLN:HE22	2:Ce:139:VAL:HG21	1.49	0.75
8:FI:135:PHE:HB2	8:FI:166:LYS:HB2	1.69	0.75
8:HC:292:THR:HG21	8:HC:331:ALA:HB1	1.69	0.75
8:PA:119:LEU:HD11	8:PA:156:ARG:HG2	1.67	0.75
8:TI:102:ASN:HD21	8:TI:407:TRP:HB3	1.51	0.75
8:WG:215:ARG:HH22	8:WG:299:ALA:HB1	1.51	0.75
28:C7:293:THR:HG21	28:C9:413:ARG:HB2	1.68	0.75
33:Cq:341:GLU:OE2	33:Cs:60:ASN:ND2	2.19	0.75
42:F:325:ARG:HG3	42:F:327:PRO:HD2	1.68	0.75
9:NJ:330:MET:HE2	9:NJ:349:VAL:HG21	1.68	0.75
8:RG:213:CYS:HA	8:RG:217:LEU:HD12	1.69	0.75
9:BJ:20:PHE:HB2	9:BJ:233:MET:HE3	1.68	0.75
8:QA:286:LEU:HB3	8:QA:373:ARG:HE	1.52	0.75
9:QB:1:MET:HE1	8:QC:72:PRO:HG2	1.69	0.75
29:DW:363:GLN:HG3	29:DW:454:LEU:HD21	1.69	0.75
43:E3:112:ARG:O	28:F5:413:ARG:NH1	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FC:224:TYR:O	8:FC:228:ASN:ND2	2.20	0.75
8:SK:292:THR:HG23	8:SK:317:MET:HE1	1.68	0.75
11:AU:337:ARG:NH2	23:Bg:27:TRP:O	2.18	0.75
8:CA:67:PHE:HB2	8:CA:92:LEU:HD22	1.67	0.75
8:NK:329:ASN:HD21	9:NL:174:LYS:HD2	1.52	0.75
8:PC:127:ASP:OD1	8:QC:293:ASN:ND2	2.19	0.75
12:AW:365:LEU:O	12:AW:369:GLN:HB2	1.87	0.75
9:BH:332:ASN:HB3	9:BH:336:LYS:HE3	1.69	0.75
9:BJ:30:ILE:HD11	9:BJ:47:ILE:HD11	1.68	0.75
8:WI:7:ILE:HD11	8:WI:122:ILE:HD11	1.69	0.75
37:De:206:GLN:HG3	9:TL:276:ARG:HH21	1.49	0.74
9:EH:105:HIS:HB3	9:EH:106:TYR:HD1	1.50	0.74
9:RL:392:LYS:HE3	9:RL:395:LEU:HD23	1.69	0.74
8:TC:301:GLN:HE22	8:TC:307:PRO:HG3	1.52	0.74
8:WC:185:TYR:HA	8:WC:188:ILE:HG22	1.67	0.74
63:k:166:HIS:H	63:k:174:MET:HE3	1.52	0.74
24:Bh:79:TYR:HA	8:GG:358:GLN:HE22	1.52	0.74
28:C9:232:ARG:NH1	28:C9:332:THR:OG1	2.20	0.74
8:DC:278:ALA:HA	8:DC:369:ALA:HB2	1.68	0.74
9:ND:73:MET:HE1	9:ND:92:PHE:HD2	1.51	0.74
9:RH:325:GLU:HA	9:RH:328:GLU:HG3	1.69	0.74
9:TJ:143:THR:HA	9:TJ:147:MET:HE1	1.69	0.74
9:TL:1:MET:HE2	8:TM:72:PRO:HG3	1.67	0.74
9:UB:285:THR:HG23	9:UB:287:PRO:HD2	1.69	0.74
8:BE:317:MET:HE1	8:BE:332:ILE:HD11	1.67	0.74
9:DD:257:MET:HE3	9:DD:314:ALA:HB2	1.69	0.74
44:EW:206:GLU:OE2	28:F4:275:ARG:NH2	2.20	0.74
9:IB:204:ASN:ND2	69:IB:501:GDP:O2'	2.21	0.74
9:RH:54:ALA:HB3	9:RH:58:LYS:HB3	1.67	0.74
8:SK:298:PRO:HG3	8:SK:308:ARG:HH22	1.52	0.74
8:IG:255:PHE:O	8:IG:259:LEU:HB2	1.87	0.74
8:SI:326:LYS:NZ	9:SJ:218:THR:O	2.20	0.74
8:WK:96:LYS:HE2	8:WK:96:LYS:HA	1.69	0.74
33:Cw:420:SER:O	29:DV:319:ARG:NH1	2.20	0.74
8:DG:381:THR:HG22	8:DG:383:ALA:H	1.53	0.74
8:GE:254:GLU:OE2	8:GE:352:LYS:NZ	2.21	0.74
9:RJ:129:CYS:SG	8:RK:96:LYS:NZ	2.58	0.74
31:Cl:361:ASN:HB3	8:HE:221:ARG:HH12	1.51	0.74
9:EH:392:LYS:HG3	9:EH:395:LEU:HD13	1.67	0.74
9:FB:342:VAL:HG12	9:FB:344:TRP:H	1.53	0.74
9:JL:131:GLN:NE2	9:JL:249:ASP:OD2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NK:308:ARG:O	58:p:38:ARG:NH1	2.19	0.74
8:QA:288:VAL:HG11	8:QA:328:VAL:HG12	1.69	0.74
9:RB:27:GLU:HA	9:RB:359:ARG:HE	1.53	0.74
8:RC:203:MET:HE1	8:RC:267:PHE:HB3	1.69	0.74
9:CF:45:GLU:HG2	9:CF:46:ARG:HG2	1.69	0.74
9:N0:68:LEU:HD12	9:N0:97:ALA:HA	1.69	0.74
9:QJ:296:ALA:HA	9:QJ:299:MET:HE2	1.68	0.74
47:X:292:MET:SD	47:X:295:GLN:NE2	2.61	0.74
59:d:520:LEU:HD11	59:d:537:GLU:HG3	1.68	0.74
9:LJ:324:LYS:HG2	8:LK:222:PRO:HD2	1.70	0.74
9:WD:284:LEU:HD12	9:WD:362:LYS:HE2	1.70	0.74
8:WI:295:CYS:HB2	8:WI:377:MET:HE2	1.69	0.74
7:Av:136:THR:HG22	8:NK:123:ARG:HH11	1.53	0.74
8:DI:386:GLU:HG2	8:DI:390:ARG:HH21	1.52	0.74
9:ED:114:ASP:O	9:ED:118:ASP:HB2	1.88	0.74
8:FE:108:TYR:OH	8:FE:413:MET:SD	2.45	0.74
9:PJ:323:MET:SD	9:PJ:323:MET:N	2.61	0.74
8:QI:271:THR:H	8:QI:377:MET:HB2	1.53	0.74
46:o:534:LYS:HE2	46:o:537:LYS:HD3	1.70	0.74
13:Ab:283:GLN:OE1	9:CJ:276:ARG:NH2	2.21	0.74
7:Ay:141:ALA:HB2	8:GE:340:THR:HG21	1.69	0.74
9:IN:376:GLU:HA	9:IN:379:LYS:HZ3	1.51	0.74
8:LG:168:GLU:HB2	8:LG:201:ALA:HA	1.70	0.74
8:QI:127:ASP:OD2	8:RI:293:ASN:ND2	2.20	0.74
8:TG:219:ILE:HD13	8:TG:222:PRO:HG3	1.69	0.74
9:VD:267:MET:HE2	9:VD:299:MET:HG2	1.69	0.74
7:A8:185:TYR:CD1	7:A8:186:ARG:HG3	2.23	0.73
9:LL:107:THR:OG1	9:LL:108:GLU:OE1	2.05	0.73
9:N0:19:LYS:HA	9:N0:22:GLU:HG2	1.68	0.73
9:PJ:265:PHE:HB3	9:PJ:374:ILE:HD13	1.68	0.73
8:RG:278:ALA:HA	8:RG:369:ALA:HB2	1.70	0.73
9:TJ:380:ARG:HH12	9:TJ:381:ILE:HG13	1.53	0.73
2:0C:146:LEU:HB3	2:0C:150:LYS:HZ2	1.52	0.73
7:A8:182:PRO:HA	8:SI:123:ARG:HH12	1.51	0.73
5:C:164:GLY:H	9:WL:217:LEU:HD11	1.53	0.73
9:QJ:70:PRO:HA	9:QJ:73:MET:HE1	1.68	0.73
8:RK:278:ALA:HA	8:RK:369:ALA:HB2	1.70	0.73
9:VN:142:GLY:N	69:VN:501:GDP:O2B	2.19	0.73
27:Bs:480:GLU:HA	27:Bs:483:ARG:HG3	1.69	0.73
8:GI:137:ILE:HD12	8:GI:154:MET:HE3	1.70	0.73
8:GK:132:LEU:HB3	8:GK:164:LYS:HZ2	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OI:252:LEU:O	8:OI:256:GLN:HB2	1.88	0.73
56:XL:45:LEU:HD21	57:YL:211:ILE:HD12	1.70	0.73
9:BB:32:PRO:HD3	9:BB:81:PHE:HE1	1.52	0.73
8:GI:346:TRP:CD1	9:GJ:391:ARG:HH22	2.05	0.73
8:OC:395:LEU:HB3	8:OC:422:ARG:HH21	1.53	0.73
56:XJ:138:ASP:OD2	56:XJ:142:ARG:NH1	2.21	0.73
13:Aa:248:ILE:HG23	13:Aa:264:PHE:HB3	1.70	0.73
8:BK:88:HIS:NE2	8:BK:90:GLU:OE1	2.16	0.73
9:KB:372:THR:HG21	9:KB:426:GLN:HB2	1.69	0.73
59:c:266:ASN:HB3	59:c:270:ARG:HH12	1.54	0.73
9:BB:156:ARG:NH1	9:BB:162:ARG:O	2.20	0.73
43:E2:101:ARG:HG2	28:F4:415:MET:HE1	1.71	0.73
8:HE:102:ASN:HD22	8:HE:105:ARG:HG3	1.54	0.73
8:KE:392:ASP:OD2	8:KE:422:ARG:NH2	2.21	0.73
9:QH:311:LEU:HD23	9:QH:312:THR:HG23	1.71	0.73
8:UE:79:ARG:HH22	8:UE:94:THR:HG21	1.54	0.73
8:UG:195:LEU:HD11	8:UG:264:ARG:HG2	1.69	0.73
8:AE:280:LYS:HG2	8:KG:89:PRO:HG2	1.71	0.73
8:BC:352:LYS:HD2	9:BD:178:THR:HA	1.69	0.73
8:CA:89:PRO:HB3	48:M:106:PRO:HG2	1.70	0.73
32:Cm:126:ASP:OD1	32:Cm:382:THR:OG1	2.04	0.73
9:WB:267:MET:HG2	9:WB:299:MET:HE2	1.70	0.73
8:WI:292:THR:HG21	8:WI:331:ALA:HB1	1.71	0.73
9:WL:112:LEU:HB3	9:WL:147:MET:HE1	1.71	0.73
13:Ab:633:ARG:HE	47:I:502:ARG:NH1	1.86	0.73
29:C1:381:LEU:HD11	29:C1:436:ARG:HG3	1.71	0.73
9:CD:311:LEU:HD23	9:CD:312:THR:HG23	1.69	0.73
9:CH:86:ARG:HB3	9:DH:282:ARG:HH22	1.54	0.73
8:HO:295:CYS:HB3	8:HO:377:MET:HE2	1.70	0.73
9:JH:345:ILE:HG13	9:JH:346:PRO:HD2	1.70	0.73
8:NA:9:VAL:HG21	8:NA:150:ALA:HB2	1.71	0.73
8:NG:220:GLU:HB2	8:NG:221:ARG:HE	1.53	0.73
9:OJ:189:VAL:HG13	9:OJ:415:MET:HE3	1.70	0.73
8:UK:190:THR:O	8:UK:194:THR:OG1	2.06	0.73
56:XM:72:LYS:HE2	57:YL:78:ARG:HD3	1.70	0.73
2:0c:34:ARG:NH1	2:0c:40:LYS:HD3	2.04	0.73
7:A7:102:GLY:HA2	8:SG:338:LYS:HE2	1.71	0.73
5:B:131:THR:HG23	5:B:133:ASN:H	1.54	0.73
9:EH:334:GLN:HE21	9:EH:349:VAL:HG23	1.53	0.73
44:EW:75:GLU:OE1	44:EW:78:ARG:NH1	2.21	0.73
9:NF:287:PRO:O	9:NF:291:GLN:NE2	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O0:164:MET:HE3	9:O0:196:THR:HA	1.71	0.73
9:PF:134:GLN:NE2	9:PF:233:MET:SD	2.62	0.73
9:VL:49:VAL:HG11	9:VL:241:ARG:HB3	1.69	0.73
3:2:168:SER:HB2	3:2:190:PRO:HG3	1.69	0.73
2:Cc:52:SER:O	2:Cc:56:HIS:HB2	1.89	0.73
9:DH:295:ASP:OD2	9:DH:297:LYS:NZ	2.22	0.73
29:DR:162:GLU:OE2	29:DR:314:ARG:NH1	2.21	0.73
9:HF:69:GLU:HG3	9:HF:71:GLY:H	1.53	0.73
8:NC:215:ARG:HH21	8:NC:216:ASN:HB2	1.53	0.73
19:BO:213:MET:HE1	19:BO:321:ILE:HG21	1.69	0.72
9:CF:218:THR:HG23	9:CF:219:THR:HG23	1.71	0.72
29:DS:308:ARG:NH1	29:DS:311:GLN:OE1	2.22	0.72
9:GD:30:ILE:HD11	9:GD:47:ILE:HD11	1.71	0.72
8:HM:71:GLU:HB2	8:HM:98:ASP:HB2	1.71	0.72
8:PM:209:ILE:HD13	8:PM:227:LEU:HD13	1.71	0.72
8:QC:21:TRP:HH2	8:QC:63:PRO:HB3	1.54	0.72
8:SM:301:GLN:OE1	8:SM:302:MET:N	2.20	0.72
66:w:287:LYS:NZ	66:w:393:ASP:OD2	2.22	0.72
9:BB:178:THR:OG1	9:BB:181:GLU:OE1	2.07	0.72
19:BP:299:GLU:OE1	19:BP:302:ARG:NH2	2.22	0.72
22:BW:26:ARG:NH2	42:E:721:PRO:O	2.22	0.72
9:LB:173:PRO:HD2	9:LB:380:ARG:HH12	1.54	0.72
8:OA:334:THR:O	8:OA:338:LYS:NZ	2.22	0.72
8:RM:188:ILE:HG13	8:RM:395:LEU:HD22	1.71	0.72
11:AU:406:GLN:HG3	34:D:82:ARG:HH12	1.54	0.72
9:HH:129:CYS:SG	8:HI:96:LYS:NZ	2.62	0.72
8:VG:188:ILE:HG13	8:VG:395:LEU:HD22	1.72	0.72
2:0k:10:ARG:O	2:0k:14:GLN:NE2	2.23	0.72
9:EN:97:ALA:HB3	9:EN:143:THR:HG22	1.70	0.72
50:L2:27:ALA:HB3	9:VN:276:ARG:HH22	1.54	0.72
9:TF:174:LYS:NZ	9:TF:205:GLU:OE2	2.20	0.72
8:UI:254:GLU:OE1	9:UJ:99:ASN:ND2	2.21	0.72
57:YK:48:MET:HB2	57:YK:51:SER:HB3	1.71	0.72
14:BZ:287:MET:SD	14:BZ:287:MET:N	2.63	0.72
33:Cw:279:LEU:HD13	33:Cw:377:ILE:HG13	1.72	0.72
8:DM:240:ALA:HB1	8:DM:320:ARG:HH22	1.52	0.72
9:GL:256:ASN:HD21	8:GM:101:ASN:HD22	1.37	0.72
9:SD:217:LEU:HG	9:SD:220:PRO:HG3	1.72	0.72
9:UH:69:GLU:HG3	9:UH:71:GLY:H	1.54	0.72
9:WN:170:VAL:HG21	9:WN:377:LEU:HD21	1.71	0.72
56:XM:36:ARG:HB3	56:XM:45:LEU:HD21	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:a:104:PRO:HD2	59:a:105:GLU:H	1.53	0.72
8:AC:251:ASP:HB3	8:AC:254:GLU:HG3	1.70	0.72
8:CE:88:HIS:HB3	8:CE:91:GLN:HB2	1.70	0.72
44:EX:270:ARG:NH2	44:EZ:23:PRO:O	2.21	0.72
8:HK:71:GLU:HB3	8:HK:98:ASP:HB3	1.71	0.72
8:JI:186:ASN:O	8:JI:190:THR:OG1	2.08	0.72
9:MB:91:VAL:HG11	9:MB:116:VAL:HG22	1.70	0.72
9:RB:293:MET:HB3	9:RB:367:PHE:HB2	1.71	0.72
9:SF:257:MET:HE2	9:SF:368:ILE:HG22	1.70	0.72
8:SI:115:VAL:HG22	8:SI:152:LEU:HD13	1.71	0.72
8:UK:212:ILE:HD11	8:UK:275:VAL:HG21	1.71	0.72
47:X:107:VAL:HG21	47:X:113:GLU:HG2	1.72	0.72
2:0i:2:MET:SD	2:0i:6:LYS:NZ	2.63	0.72
9:DD:113:VAL:HG11	9:DD:150:LEU:HD22	1.71	0.72
29:DX:370:GLU:HB3	29:DX:447:LEU:HD21	1.71	0.72
8:FI:388:TRP:HE1	8:FI:425:LEU:HD11	1.54	0.72
8:WC:222:PRO:HA	8:WC:226:ASN:HD22	1.53	0.72
7:A7:105:ASP:OD2	8:SG:340:THR:OG1	2.08	0.72
9:AB:86:ARG:NH1	9:BB:281:TYR:O	2.23	0.72
16:Ax:142:PRO:HG2	8:FC:340:THR:H	1.55	0.72
19:BR:373:ILE:HD11	8:MM:155:GLU:CD	2.15	0.72
29:D6:165:ARG:HH12	29:D6:314:ARG:HG2	1.55	0.72
8:DA:26:LEU:HD23	8:DA:363:VAL:HG12	1.72	0.72
45:G:270:ARG:NH2	45:G:314:ASP:OD2	2.23	0.72
47:I:414:MET:N	47:I:416:GLU:OE2	2.22	0.72
9:UD:354:CYS:SG	9:UD:355:ASP:N	2.63	0.72
8:AK:154:MET:HE2	8:AK:197:HIS:HB2	1.72	0.72
9:DD:186:THR:HG22	9:DD:415:MET:HE2	1.72	0.72
9:DH:238:THR:HA	9:DH:318:ARG:HH22	1.55	0.72
8:EC:54:SER:HB3	8:EC:62:VAL:HB	1.69	0.72
8:EI:220:GLU:HG3	8:EI:221:ARG:HH21	1.55	0.72
29:EP:224:MET:HE2	29:EP:335:LEU:HD23	1.71	0.72
8:NK:97:GLU:OE2	8:NK:105:ARG:NH2	2.23	0.72
9:PJ:328:GLU:OE2	9:PJ:332:ASN:ND2	2.23	0.72
8:QA:286:LEU:HD23	8:QA:373:ARG:HD3	1.72	0.72
9:SL:318:ARG:HG2	9:SL:358:PRO:HD3	1.70	0.72
9:TF:324:LYS:NZ	8:TG:222:PRO:O	2.23	0.72
9:AH:262:ARG:NH2	57:YI:247:MET:SD	2.61	0.72
13:Aa:630:TYR:O	13:Aa:633:ARG:NH1	2.23	0.72
7:Av:138:GLY:N	8:NK:123:ARG:HH12	1.87	0.72
47:I:255:MET:SD	47:I:255:MET:N	2.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OG:115:VAL:O	8:OG:119:LEU:HB2	1.90	0.72
9:TJ:192:LEU:HD13	9:TJ:196:THR:HG21	1.72	0.72
9:VF:276:ARG:HH22	59:b:454:GLN:HB3	1.55	0.72
8:WM:31:GLN:HG2	8:WM:33:ASP:H	1.55	0.72
7:Ay:138:GLY:HA2	8:GE:338:LYS:HD2	1.70	0.71
9:BF:33:THR:O	9:BF:58:LYS:NZ	2.23	0.71
20:BT:153:LEU:HA	20:BT:156:GLN:HE22	1.55	0.71
9:DN:200:TYR:HA	9:DN:266:PHE:HB2	1.72	0.71
8:IC:98:ASP:OD1	8:IC:100:ALA:N	2.22	0.71
8:IO:211:ASP:O	8:IO:215:ARG:HB2	1.89	0.71
9:TJ:147:MET:HE3	9:TJ:147:MET:H	1.55	0.71
9:VB:362:LYS:HG3	59:a:230:MET:HE1	1.72	0.71
56:XG:101:ARG:NH1	56:XG:116:PRO:O	2.23	0.71
9:AB:170:VAL:HG21	9:AB:377:LEU:HD21	1.72	0.71
9:DN:258:VAL:HG22	9:DN:260:PHE:H	1.55	0.71
8:GM:2:ARG:HD2	8:GM:242:LEU:HD22	1.72	0.71
9:HB:8:GLN:HB2	9:HB:65:LEU:HA	1.72	0.71
9:N0:376:GLU:HA	9:N0:379:LYS:HZ2	1.55	0.71
9:TD:137:HIS:HE1	9:TD:148:GLY:HA3	1.55	0.71
9:UF:324:LYS:O	9:UF:328:GLU:HB2	1.90	0.71
8:AI:431:ASP:OD1	56:XI:102:ARG:NH2	2.23	0.71
13:Aa:500:ASN:HB3	13:Aa:505:LEU:HD22	1.72	0.71
33:Cv:355:LYS:HE2	33:Cx:42:ALA:HA	1.73	0.71
8:DC:217:LEU:HD12	8:DC:367:ASP:HB3	1.72	0.71
39:Dj:75:PRO:O	9:LF:379:LYS:NZ	2.23	0.71
9:IF:114:ASP:OD2	51:N:133:ARG:NH2	2.23	0.71
8:RG:54:SER:HB2	8:RG:64:ARG:HE	1.54	0.71
9:SB:167:PHE:CE1	9:SB:233:MET:HG2	2.21	0.71
8:TC:402:ARG:HG3	8:TC:405:VAL:HG11	1.71	0.71
8:VG:399:TYR:HD1	8:VG:401:LYS:H	1.38	0.71
7:A6:222:SER:HB2	8:SM:308:ARG:HH22	1.54	0.71
18:B5:124:PRO:HB3	8:LK:109:THR:HG22	1.72	0.71
19:BO:211:ARG:HH11	54:T:267:GLU:HG2	1.55	0.71
28:C3:436:GLN:OE1	28:C3:439:ARG:NH1	2.23	0.71
8:FE:277:SER:OG	8:FE:280:LYS:NZ	2.23	0.71
8:IK:123:ARG:HH22	8:IK:161:TYR:HE1	1.37	0.71
8:QI:168:GLU:HB2	8:QI:201:ALA:HA	1.73	0.71
8:QM:98:ASP:OD1	8:QM:100:ALA:N	2.24	0.71
3:1:22:SER:O	3:1:25:LYS:NZ	2.23	0.71
9:AD:372:THR:HG21	9:AD:426:GLN:HB2	1.72	0.71
29:DW:357:LYS:HG2	29:DW:361:GLN:HE22	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Dh:18:GLN:NE2	38:Dh:22:MET:SD	2.63	0.71
8:EK:3:GLU:HA	8:EK:51:THR:HA	1.73	0.71
8:EM:317:MET:HE1	8:EM:377:MET:HG2	1.72	0.71
8:FC:228:ASN:HD21	67:FC:501:GTP:HN1	1.38	0.71
8:JM:188:ILE:HG12	8:JM:395:LEU:HD22	1.72	0.71
8:LI:377:MET:HE3	8:LI:379:SER:HB3	1.72	0.71
8:SM:320:ARG:HB2	8:SM:374:ALA:HB3	1.71	0.71
1:V:128:ASP:OD2	61:h:76:GLN:NE2	2.23	0.71
7:A1:128:THR:HG1	9:PF:213:ARG:HH22	1.38	0.71
9:CL:265:PHE:HB3	9:CL:374:ILE:HD13	1.72	0.71
2:Cd:53:TYR:HB3	2:Cd:58:CYS:SG	2.31	0.71
33:Ct:86:ASP:OD1	43:E3:111:GLN:NE2	2.24	0.71
29:DV:130:LYS:O	29:DV:130:LYS:NZ	2.23	0.71
9:EJ:324:LYS:HA	8:EK:210:TYR:HE2	1.55	0.71
44:EZ:106:ARG:HG3	44:EZ:110:MET:HE2	1.72	0.71
9:HF:324:LYS:NZ	8:HG:220:GLU:OE1	2.23	0.71
8:JE:216:ASN:OD1	51:N:132:ARG:NH2	2.23	0.71
8:KG:137:ILE:HG13	8:KG:154:MET:HE1	1.73	0.71
8:PK:88:HIS:HB3	8:PK:91:GLN:HB2	1.71	0.71
9:RD:16:ILE:HD11	9:RD:136:THR:HG21	1.71	0.71
8:VK:104:ALA:HA	8:VK:413:MET:HE3	1.71	0.71
9:WH:136:THR:HG22	9:WH:167:PHE:HB2	1.71	0.71
47:Y:331:VAL:HA	47:Y:344:ILE:HG13	1.71	0.71
19:BR:202:GLU:HA	19:BR:328:ILE:HD11	1.71	0.71
9:EB:323:MET:HE1	8:EC:224:TYR:HD1	1.54	0.71
28:F2:149:ARG:NH2	28:F4:412:CYS:SG	2.63	0.71
9:HL:86:ARG:HH12	9:IL:282:ARG:HB2	1.54	0.71
9:LN:237:THR:HG22	9:LN:250:LEU:HD21	1.70	0.71
8:QM:195:LEU:HG	8:QM:196:GLU:HG2	1.73	0.71
8:CM:64:ARG:NH1	8:CM:129:CYS:SG	2.63	0.71
33:Cw:100:GLU:OE1	44:EX:429:LYS:NZ	2.24	0.71
8:EC:147:SER:HG	8:EC:190:THR:HG1	1.37	0.71
9:EJ:33:THR:O	9:EJ:58:LYS:NZ	2.21	0.71
9:EN:377:LEU:HD22	9:EN:380:ARG:HH21	1.55	0.71
9:HF:207:LEU:HB3	9:HF:225:LEU:HD11	1.72	0.71
8:IK:204:VAL:HG12	8:IK:302:MET:HG3	1.73	0.71
8:NE:196:GLU:HG2	8:NE:197:HIS:CD2	2.25	0.71
8:PE:216:ASN:ND2	8:PE:275:VAL:O	2.24	0.71
9:QB:246:LEU:HD11	67:QC:501:GTP:H5"	1.72	0.71
9:RL:207:LEU:HD13	9:RL:225:LEU:HB3	1.72	0.71
60:f:520:ILE:HG23	60:f:532:TRP:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A0:205:THR:HG22	8:IC:308:ARG:HH22	1.55	0.71
7:Av:181:GLY:O	8:NI:123:ARG:NH1	2.24	0.71
29:D6:92:ARG:HH21	45:G:301:GLU:HG2	1.55	0.71
8:EK:115:VAL:HG21	8:EK:152:LEU:HD22	1.73	0.71
42:F:540:GLY:HA2	8:IM:226:ASN:HD21	1.56	0.71
9:JN:143:THR:O	9:JN:147:MET:HB2	1.91	0.71
8:PC:237:SER:HG	8:PC:376:CYS:HG	1.38	0.71
8:RG:313:MET:SD	8:RG:313:MET:N	2.64	0.71
8:VC:107:HIS:O	8:VC:112:LYS:NZ	2.24	0.71
9:WJ:262:ARG:HH21	9:WJ:414:ASN:HD21	1.37	0.71
56:XM:90:GLU:OE1	56:XM:104:ARG:NH2	2.24	0.71
60:g:185:ILE:HG21	60:g:235:MET:HE1	1.71	0.71
14:Am:20:TYR:H	8:DI:79:ARG:HH11	1.39	0.71
9:BF:207:LEU:HB3	9:BF:225:LEU:HD22	1.73	0.71
19:BP:203:LYS:HE3	19:BP:207:LYS:HZ1	1.53	0.71
14:BY:268:SER:HB3	14:BY:270:HIS:HB2	1.73	0.71
28:DO:125:SER:OG	29:DQ:165:ARG:NH2	2.24	0.71
9:N0:334:GLN:NE2	9:N0:348:ASN:OD1	2.24	0.71
9:NH:68:LEU:HD12	9:NH:97:ALA:HA	1.72	0.71
8:RG:295:CYS:HA	8:RG:377:MET:HE3	1.73	0.71
8:SK:288:VAL:O	8:SK:292:THR:OG1	2.09	0.71
16:Ax:114:MET:HG2	16:Ax:116:VAL:H	1.55	0.70
9:EH:318:ARG:HE	9:EH:358:PRO:HG3	1.56	0.70
9:RH:344:TRP:HZ3	8:RI:401:LYS:HB3	1.53	0.70
9:TB:378:PHE:HB3	9:TB:415:MET:HE1	1.73	0.70
56:XM:72:LYS:NZ	56:XM:150:GLU:OE1	2.24	0.70
63:n:105:CYS:SG	63:n:106:ALA:N	2.64	0.70
2:0c:34:ARG:HG2	2:0c:34:ARG:HH11	1.56	0.70
8:JE:155:GLU:OE2	8:JE:193:THR:OG1	2.08	0.70
9:OF:63:ALA:O	9:OF:89:ASN:ND2	2.24	0.70
8:RC:97:GLU:OE1	8:RC:105:ARG:NH2	2.23	0.70
9:VJ:207:LEU:HB3	9:VJ:225:LEU:HG	1.73	0.70
7:A6:228:MET:HE1	8:RM:96:LYS:HG3	1.72	0.70
9:BH:161:ASP:OD1	9:BH:162:ARG:NH1	2.25	0.70
19:BR:231:ARG:HH12	54:S:229:PRO:HG2	1.55	0.70
22:BW:46:THR:HG21	9:JB:40:SER:HB2	1.72	0.70
28:F3:413:ARG:HB2	28:F6:293:THR:HG21	1.71	0.70
9:FN:284:LEU:HB3	9:FN:285:THR:HG23	1.73	0.70
9:GB:331:LEU:HD13	8:GC:177:VAL:HG12	1.72	0.70
9:IJ:45:GLU:HB3	1:V:47:LEU:HD22	1.73	0.70
48:J:112:LEU:HD12	48:J:129:MET:HE2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PF:313:VAL:HB	9:PF:349:VAL:HG22	1.73	0.70
9:SF:135:LEU:HB3	9:SF:166:THR:HG22	1.73	0.70
8:UE:249:ASN:OD1	9:UF:11:GLN:NE2	2.24	0.70
29:DV:42:LEU:HG	29:DV:46:ARG:HH21	1.56	0.70
9:EJ:173:PRO:HG3	9:EJ:380:ARG:HH21	1.54	0.70
9:KD:113:VAL:HG21	9:KD:154:LYS:HZ2	1.54	0.70
8:KM:124:LYS:NZ	65:s:70:ASP:OD2	2.24	0.70
9:KN:62:ARG:NH1	9:KN:127:CYS:SG	2.65	0.70
8:OC:1:MET:HA	8:OC:50:ASN:HD21	1.57	0.70
8:OE:1:MET:N	8:OE:3:GLU:OE2	2.24	0.70
8:TK:64:ARG:NH1	8:TK:129:CYS:SG	2.65	0.70
8:VK:326:LYS:NZ	9:VL:220:PRO:O	2.23	0.70
4:z:1324:LEU:O	4:z:1328:CYS:HB3	1.90	0.70
2:0e:29:ALA:O	2:0e:33:CYS:HB2	1.92	0.70
6:A0:49:ARG:NH2	6:A0:52:CYS:SG	2.65	0.70
16:Ax:149:ARG:HD2	8:EC:113:GLU:HA	1.72	0.70
8:CC:36:MET:HE3	8:CC:37:PRO:HD2	1.74	0.70
29:DW:125:ARG:HH22	29:DW:325:GLN:HG3	1.56	0.70
43:E3:27:TYR:HD2	44:EU:195:LYS:HE2	1.57	0.70
9:EH:334:GLN:HE22	9:EH:348:ASN:H	1.37	0.70
9:NL:210:ILE:HD11	9:NL:298:ASN:HA	1.72	0.70
8:SK:298:PRO:HA	8:SK:301:GLN:HE22	1.55	0.70
8:UM:188:ILE:HG13	8:UM:395:LEU:HG	1.73	0.70
5:B:117:ARG:HG2	5:B:125:ARG:HH21	1.56	0.70
8:PG:188:ILE:HD13	8:PG:395:LEU:HD11	1.74	0.70
9:WD:327:ASP:HB3	8:WE:177:VAL:HG21	1.73	0.70
16:Ax:145:TYR:O	8:FC:308:ARG:NH1	2.25	0.70
8:CI:225:THR:HG22	8:CI:229:ARG:HH21	1.57	0.70
29:Cz:452:CYS:SG	29:Cz:453:ARG:NH1	2.65	0.70
8:HE:215:ARG:NH2	8:HE:299:ALA:O	2.22	0.70
8:KM:81:GLY:O	8:KM:84:ARG:NH1	2.24	0.70
9:PD:323:MET:SD	9:PD:323:MET:N	2.54	0.70
9:PH:112:LEU:HB3	9:PH:147:MET:HE1	1.72	0.70
9:QF:73:MET:SD	9:QF:73:MET:N	2.65	0.70
8:SA:209:ILE:HB	8:SA:227:LEU:HD22	1.73	0.70
9:TB:215:LEU:HD21	9:TB:273:LEU:HD22	1.74	0.70
8:WG:223:THR:HG23	8:WG:225:THR:H	1.56	0.70
8:BA:217:LEU:HD21	8:BA:275:VAL:HG22	1.74	0.70
9:HN:161:ASP:OD2	9:HN:162:ARG:NH1	2.23	0.70
8:PC:103:TYR:O	8:PC:107:HIS:HB2	1.91	0.70
9:UL:354:CYS:SG	9:UL:355:ASP:N	2.64	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0c:34:ARG:HH12	2:0c:40:LYS:HA	1.57	0.70
9:DL:271:ALA:O	9:DL:292:GLN:NE2	2.24	0.70
8:FK:209:ILE:HG21	8:FK:227:LEU:HB3	1.73	0.70
9:GL:211:CYS:HB3	9:GL:217:LEU:HD12	1.74	0.70
9:HJ:346:PRO:HG3	8:HK:394:LYS:HB3	1.72	0.70
9:LL:237:THR:HG22	9:LL:250:LEU:HD21	1.73	0.70
48:M:105:ILE:HG22	48:M:106:PRO:HD2	1.73	0.70
9:OL:101:TRP:HD1	9:OL:403:MET:HE1	1.57	0.70
9:QD:253:LEU:O	9:QD:257:MET:HB2	1.92	0.70
9:CL:73:MET:HA	9:CL:76:VAL:HG12	1.73	0.70
2:CV:141:LEU:HD12	2:CV:142:ILE:HD13	1.74	0.70
2:Cb:39:ASP:OD2	2:Cb:53:TYR:OH	2.08	0.70
38:Df:41:GLN:O	38:Df:45:ASP:HB2	1.92	0.70
8:FI:318:LEU:HB2	8:FI:376:CYS:HB3	1.74	0.70
9:ND:23:VAL:O	9:ND:27:GLU:HB2	1.91	0.70
8:SK:67:PHE:HB2	8:SK:92:LEU:HD23	1.73	0.70
8:WC:104:ALA:HA	8:WC:413:MET:HE3	1.73	0.70
60:e:352:ALA:HB1	60:e:383:ILE:HD11	1.74	0.70
33:Cr:154:LYS:HG3	33:Cr:246:THR:HG21	1.74	0.69
33:Cu:332:ASP:OD1	33:Cu:333:GLN:N	2.24	0.69
44:EX:242:PRO:O	44:EX:246:LYS:NZ	2.24	0.69
8:GK:204:VAL:HG11	8:GK:303:VAL:HA	1.73	0.69
9:GL:248:ALA:HA	9:GL:252:LYS:HD3	1.73	0.69
8:OC:276:ILE:HD12	8:OC:280:LYS:HB2	1.74	0.69
8:PC:56:THR:HG22	8:PC:58:ALA:H	1.55	0.69
9:PL:265:PHE:HB3	9:PL:374:ILE:HD13	1.74	0.69
9:VD:8:GLN:HE22	9:VD:17:GLY:HA3	1.56	0.69
9:VJ:359:ARG:HH21	59:b:344:LYS:HG3	1.56	0.69
9:VL:354:CYS:SG	9:VL:355:ASP:N	2.65	0.69
8:WM:259:LEU:HD21	8:WM:316:CYS:HB2	1.74	0.69
2:0k:34:ARG:HH12	2:0k:135:TYR:HB3	1.57	0.69
9:BB:165:ASN:ND2	9:BB:198:GLU:OE1	2.25	0.69
28:C9:218:GLU:HB3	28:C9:343:VAL:HG22	1.74	0.69
8:DG:2:ARG:HH21	8:DG:243:ARG:HA	1.57	0.69
9:MJ:324:LYS:HG2	8:MK:222:PRO:HD2	1.74	0.69
9:RJ:130:LEU:O	9:RJ:162:ARG:NH1	2.25	0.69
9:TF:176:SER:HB3	9:TF:181:GLU:HG3	1.74	0.69
9:TF:317:PHE:HB3	9:TF:321:MET:HE3	1.73	0.69
9:UH:354:CYS:SG	9:UH:355:ASP:N	2.66	0.69
60:g:17:LEU:HD11	60:g:618:LYS:HB3	1.73	0.69
9:AF:249:ASP:OD1	9:AF:250:LEU:N	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BN:249:LYS:NZ	8:IM:214:ARG:O	2.24	0.69
26:Bu:194:ARG:NH2	26:Bu:209:ARG:O	2.25	0.69
8:CA:79:ARG:HH22	48:M:107:GLY:H	1.37	0.69
8:CE:267:PHE:HB3	8:CE:384:ILE:HD13	1.74	0.69
9:FH:256:ASN:HD22	9:FH:350:LYS:HD2	1.57	0.69
9:KN:332:ASN:OD1	9:KN:336:LYS:NZ	2.24	0.69
8:PI:72:PRO:O	8:PI:76:ASP:HB2	1.91	0.69
8:VE:276:ILE:HD11	8:VE:286:LEU:HD11	1.74	0.69
9:VF:354:CYS:SG	9:VF:355:ASP:N	2.65	0.69
9:VJ:401:GLU:HB2	9:VJ:403:MET:HE1	1.75	0.69
29:D3:412:ARG:HD2	29:D6:292:THR:HG21	1.73	0.69
44:ET:226:GLU:OE2	8:LC:38:SER:OG	2.10	0.69
9:FF:125:GLU:OE1	9:GF:336:LYS:NZ	2.24	0.69
8:FG:438:ASP:O	9:FH:391:ARG:NH1	2.23	0.69
8:HC:339:ARG:NH1	8:HC:342:GLN:OE1	2.24	0.69
9:KF:73:MET:HA	9:KF:76:VAL:HG12	1.73	0.69
8:NE:91:GLN:HG3	8:NE:121:ARG:HH12	1.58	0.69
9:RJ:284:LEU:HD23	9:RJ:362:LYS:HG2	1.73	0.69
9:TJ:54:ALA:HB3	9:TJ:58:LYS:HB2	1.73	0.69
8:TK:195:LEU:HD11	8:TK:428:LEU:HD12	1.74	0.69
56:XI:72:LYS:NZ	57:YH:78:ARG:O	2.24	0.69
9:IJ:88:ASP:OD1	1:V:32:SER:OG	2.10	0.69
9:LJ:27:GLU:OE2	9:LJ:241:ARG:NH2	2.25	0.69
9:SH:81:PHE:HD1	9:SH:84:ILE:HD11	1.57	0.69
9:UB:189:VAL:HA	9:UB:192:LEU:HB2	1.75	0.69
9:VH:8:GLN:HE22	9:VH:17:GLY:HA3	1.56	0.69
9:VH:237:THR:HG22	9:VH:250:LEU:HD21	1.75	0.69
9:LB:143:THR:O	9:LB:147:MET:HB3	1.93	0.69
9:QB:423:GLN:HA	9:QB:426:GLN:HE22	1.58	0.69
8:SI:172:TYR:HB3	8:SI:205:ASP:HB3	1.74	0.69
8:SK:172:TYR:HB3	8:SK:205:ASP:HB3	1.75	0.69
8:TE:316:CYS:HA	8:TE:352:LYS:HB2	1.75	0.69
9:UD:200:TYR:HE2	9:UD:368:ILE:HD12	1.58	0.69
60:f:17:LEU:H	60:f:585:VAL:HG22	1.58	0.69
13:Ab:612:GLN:OE1	13:Ab:616:ASN:ND2	2.26	0.69
2:Cf:54:MET:O	2:Cf:64:ARG:NH1	2.26	0.69
9:DN:58:LYS:HZ2	9:EN:281:TYR:HA	1.58	0.69
29:DU:136:GLN:OE1	29:DU:314:ARG:NH2	2.25	0.69
8:FK:212:ILE:HD11	8:FK:302:MET:HE1	1.73	0.69
9:KF:159:TYR:HB3	9:KF:162:ARG:HG3	1.74	0.69
8:PC:229:ARG:HH21	8:PC:363:VAL:HG11	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QL:299:MET:SD	9:QL:299:MET:N	2.66	0.69
9:TL:207:LEU:HD13	9:TL:300:MET:HE2	1.75	0.69
8:VK:381:THR:HG22	8:VK:383:ALA:H	1.57	0.69
9:WH:213:ARG:HH22	9:WH:297:LYS:HB2	1.57	0.69
9:WJ:375:GLN:HE22	9:WJ:419:VAL:HG22	1.55	0.69
59:c:183:MET:HE2	59:d:515:ILE:HD11	1.75	0.69
7:A1:128:THR:OG1	9:PF:213:ARG:NH2	2.25	0.69
7:A7:185:TYR:HE1	8:RC:119:LEU:HB3	1.56	0.69
8:BE:329:ASN:HD21	9:BF:175:VAL:HG22	1.57	0.69
19:BO:47:TRP:HB2	39:Dl:129:ARG:HH12	1.58	0.69
9:CF:354:CYS:SG	9:CF:355:ASP:N	2.66	0.69
33:Cr:84:ASP:HB2	33:Cr:233:MET:HE1	1.73	0.69
33:Cs:169:ARG:O	33:Cs:173:ASN:ND2	2.26	0.69
29:D5:295:VAL:HG22	29:D5:296:PRO:HD3	1.73	0.69
40:Dm:78:THR:HB	40:Dm:81:GLN:HG3	1.73	0.69
9:EL:113:VAL:HG21	9:EL:150:LEU:HD22	1.74	0.69
44:EV:230:ARG:HG2	8:LK:42:ILE:HG13	1.74	0.69
9:FF:247:ASN:ND2	8:FG:71:GLU:OE2	2.25	0.69
8:FI:90:GLU:HB3	8:FI:121:ARG:HH12	1.56	0.69
8:JK:168:GLU:HB2	8:JK:201:ALA:HA	1.74	0.69
50:L1:70:LEU:N	8:WC:220:GLU:OE1	2.26	0.69
8:PE:91:GLN:HG3	8:PE:121:ARG:HD2	1.75	0.69
9:PF:49:VAL:HG11	9:PF:241:ARG:HB3	1.75	0.69
9:PH:326:VAL:HG12	9:PH:330:MET:HE1	1.75	0.69
8:RC:298:PRO:HA	8:RC:301:GLN:HG2	1.74	0.69
8:SK:348:PRO:HD2	9:SL:388:MET:HE3	1.75	0.69
9:TF:289:LEU:O	9:TF:293:MET:HB2	1.92	0.69
8:UI:257:THR:HG22	9:UJ:397:TRP:HE1	1.57	0.69
8:WI:362:VAL:HG11	8:WI:370:LYS:HD2	1.75	0.69
59:d:332:LYS:NZ	59:d:336:GLN:OE1	2.25	0.69
8:FG:258:ASN:HD22	8:FG:352:LYS:HD2	1.57	0.69
9:HN:314:ALA:HB3	9:HN:368:ILE:HB	1.74	0.69
9:IJ:111:GLU:HG3	3:x:68:ARG:HE	1.58	0.69
8:OK:259:LEU:HD21	8:OK:316:CYS:HB2	1.75	0.69
8:RI:320:ARG:HH22	8:RI:358:GLN:HG2	1.56	0.69
9:VB:354:CYS:SG	9:VB:355:ASP:N	2.65	0.69
9:VF:245:GLN:NE2	9:VF:323:MET:SD	2.66	0.69
8:VG:213:CYS:HA	8:VG:217:LEU:HB2	1.73	0.69
9:VH:69:GLU:HG2	9:VH:71:GLY:H	1.57	0.69
9:AB:121:ARG:NH1	9:AB:158:GLU:OE1	2.26	0.69
22:BW:48:GLN:O	9:JB:320:ARG:NH2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DU:221:GLU:HB2	29:DU:338:GLN:HE21	1.56	0.69
9:GH:67:ASP:OD1	9:GH:68:LEU:N	2.25	0.69
9:KB:117:LEU:HD11	9:KB:154:LYS:HG2	1.74	0.69
8:LG:377:MET:HE2	8:LG:379:SER:HB3	1.73	0.69
8:NC:292:THR:HG21	8:NC:331:ALA:HB1	1.73	0.69
9:ND:46:ARG:HH22	8:NE:73:THR:HA	1.57	0.69
9:QL:83:GLN:NE2	9:RL:281:TYR:OH	2.26	0.69
8:SG:53:PHE:HB3	8:SG:63:PRO:HA	1.75	0.69
9:TB:288:GLU:OE2	9:TB:292:GLN:NE2	2.26	0.69
9:UL:331:LEU:HD21	8:UM:176:GLN:HB3	1.74	0.69
9:VJ:196:THR:OG1	9:VJ:264:HIS:NE2	2.26	0.69
9:WD:207:LEU:HB3	9:WD:225:LEU:HD22	1.74	0.69
60:e:81:TYR:HD1	60:e:98:LEU:HD11	1.56	0.69
2:0c:22:GLN:HA	9:RL:41:ASP:HB2	1.74	0.68
7:A2:29:LYS:HG2	8:QA:340:THR:HG21	1.74	0.68
19:BR:156:ARG:NH1	8:MK:414:GLU:OE1	2.25	0.68
14:Be:290:ILE:HG21	14:Be:293:MET:HE2	1.75	0.68
9:GH:30:ILE:HD11	9:GH:47:ILE:HD11	1.74	0.68
9:PJ:309:ARG:NH1	9:PJ:339:SER:O	2.26	0.68
9:PJ:354:CYS:SG	9:PJ:355:ASP:N	2.66	0.68
54:S:132:LEU:HD12	54:S:137:GLU:HB3	1.75	0.68
8:SE:255:PHE:O	8:SE:259:LEU:HB2	1.92	0.68
9:VB:1:MET:HE2	8:VC:72:PRO:HG2	1.75	0.68
7:A6:240:ILE:HG13	7:A6:241:LYS:H	1.57	0.68
19:BR:159:GLU:OE1	19:BR:163:ARG:NH1	2.26	0.68
29:D5:280:ILE:HG13	29:D7:393:LYS:HG2	1.73	0.68
9:IH:327:ASP:HB3	8:II:177:VAL:HG21	1.75	0.68
8:KG:168:GLU:HB3	8:KG:201:ALA:HA	1.73	0.68
9:ND:248:ALA:HA	9:ND:252:LYS:HE3	1.75	0.68
9:PL:257:MET:SD	9:PL:312:THR:OG1	2.51	0.68
9:QB:134:GLN:NE2	9:QB:233:MET:SD	2.66	0.68
9:SB:237:THR:HG23	9:SB:241:ARG:HH12	1.58	0.68
9:TB:48:ASN:O	9:TB:62:ARG:NH2	2.23	0.68
9:TD:354:CYS:SG	9:TD:355:ASP:N	2.66	0.68
3:1:141:VAL:HG23	3:1:153:THR:H	1.59	0.68
13:Ab:248:ILE:HG23	13:Ab:264:PHE:HB3	1.75	0.68
9:BB:252:LYS:HG2	8:BC:100:ALA:HA	1.75	0.68
29:D8:436:ARG:NH1	29:D9:122:ASP:OD2	2.27	0.68
9:EH:117:LEU:HA	9:EH:120:VAL:HG12	1.75	0.68
9:HH:260:PHE:HE1	8:HI:403:ALA:HA	1.57	0.68
9:JH:330:MET:HB3	9:JH:349:VAL:HG21	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MK:154:MET:HE1	8:MK:168:GLU:HG2	1.75	0.68
8:OG:66:VAL:HG11	8:OG:118:VAL:HG23	1.75	0.68
9:SF:67:ASP:OD1	9:SF:68:LEU:N	2.25	0.68
9:TF:306:ARG:HD2	9:TF:340:TYR:HE2	1.57	0.68
9:VD:354:CYS:SG	9:VD:355:ASP:N	2.66	0.68
8:BC:254:GLU:HG3	9:BD:98:GLY:HA2	1.76	0.68
41:Dn:222:GLN:HG3	9:OF:400:GLY:HA3	1.75	0.68
9:IH:170:VAL:HG21	9:IH:377:LEU:HD21	1.75	0.68
8:JC:381:THR:HG22	8:JC:383:ALA:H	1.59	0.68
9:JD:306:ARG:NH1	9:JD:340:TYR:OH	2.26	0.68
9:KH:314:ALA:HB3	9:KH:368:ILE:HB	1.76	0.68
9:NF:257:MET:HE1	9:NF:314:ALA:HB2	1.74	0.68
9:OH:46:ARG:NH2	8:OI:76:ASP:OD2	2.27	0.68
52:P:50:GLU:HA	46:o:422:ARG:HH12	1.58	0.68
8:PE:262:TYR:HB2	8:PE:265:ILE:HG12	1.76	0.68
42:F:370:ARG:HB2	8:IG:372:GLN:HG3	1.74	0.68
28:F4:293:THR:HG21	28:F5:413:ARG:HB2	1.75	0.68
8:FK:7:ILE:HD11	8:FK:122:ILE:HD11	1.76	0.68
9:HD:65:LEU:HD12	9:HD:90:PHE:HE2	1.58	0.68
9:IN:77:ARG:HA	9:IN:82:GLY:HA3	1.76	0.68
8:SA:243:ARG:HG2	8:SA:244:PHE:HD1	1.58	0.68
9:SF:90:PHE:HB3	9:SF:92:PHE:HE2	1.58	0.68
9:UB:354:CYS:SG	9:UB:355:ASP:N	2.65	0.68
9:WD:327:ASP:HA	9:WD:330:MET:HE2	1.75	0.68
13:Ad:292:VAL:HG21	9:CB:213:ARG:HH12	1.59	0.68
8:BC:97:GLU:HG2	8:BC:98:ASP:H	1.59	0.68
8:BE:121:ARG:HH21	8:BE:124:LYS:HD2	1.59	0.68
8:CC:75:VAL:HG13	8:CC:92:LEU:HD12	1.75	0.68
2:Cg:130:GLU:HA	2:Cg:134:HIS:HB2	1.74	0.68
9:DH:382:SER:HB2	9:DH:415:MET:HE2	1.75	0.68
9:DJ:417:ASP:O	9:DJ:421:GLU:HB3	1.93	0.68
8:EM:262:TYR:HB2	8:EM:265:ILE:HD12	1.75	0.68
44:EW:88:THR:HG22	44:EZ:346:LYS:HZ2	1.57	0.68
9:PJ:2:ARG:NH1	8:PK:98:ASP:OD1	2.26	0.68
9:RD:314:ALA:HB3	9:RD:368:ILE:HB	1.76	0.68
8:SG:147:SER:HB3	8:SG:190:THR:HG21	1.74	0.68
8:SG:168:GLU:HB2	8:SG:201:ALA:HA	1.75	0.68
8:VI:88:HIS:HB3	8:VI:91:GLN:HB2	1.74	0.68
60:e:351:PHE:HB2	60:e:362:TRP:HB2	1.75	0.68
9:CB:45:GLU:HG2	9:CB:46:ARG:HG2	1.73	0.68
8:EC:208:ALA:HB2	8:EC:304:LYS:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HM:234:ILE:HD11	8:HM:272:TYR:HB2	1.75	0.68
9:LN:262:ARG:NH2	9:LN:421:GLU:OE2	2.27	0.68
8:MI:422:ARG:HH12	8:MI:426:ALA:HB2	1.59	0.68
9:ND:321:MET:HE1	9:ND:326:VAL:HG23	1.75	0.68
9:NL:54:ALA:HA	9:OL:283:ALA:HB2	1.76	0.68
8:PI:54:SER:OG	8:QI:285:GLN:NE2	2.26	0.68
9:RH:299:MET:SD	9:RH:299:MET:N	2.66	0.68
9:UF:354:CYS:SG	9:UF:355:ASP:N	2.67	0.68
8:WE:3:GLU:HA	8:WE:51:THR:HA	1.75	0.68
9:AD:290:THR:HA	9:AD:293:MET:HE2	1.75	0.68
8:AM:180:ALA:HB3	8:AM:183:GLU:HG3	1.75	0.68
13:Ad:217:ARG:HG3	8:CA:41:THR:HG21	1.76	0.68
25:Bp:74:UNK:HA	9:OB:320:ARG:HH12	1.59	0.68
9:GN:86:ARG:HD2	9:HN:281:TYR:HB3	1.76	0.68
9:JJ:276:ARG:HH12	1:V:82:GLY:H	1.42	0.68
9:LN:336:LYS:NZ	9:MN:125:GLU:OE1	2.27	0.68
9:ML:2:ARG:HB3	9:ML:131:GLN:HB2	1.76	0.68
9:PD:49:VAL:HG13	9:PD:50:TYR:HD1	1.59	0.68
8:SI:298:PRO:HA	8:SI:301:GLN:HE22	1.58	0.68
8:WC:151:SER:HB2	8:WC:193:THR:HG21	1.75	0.68
8:AE:188:ILE:HG12	8:AE:395:LEU:HD22	1.74	0.68
9:DJ:83:GLN:OE1	9:EJ:281:TYR:OH	2.12	0.68
45:G:320:LYS:HE3	45:G:321:VAL:H	1.59	0.68
9:IJ:173:PRO:HD2	9:IJ:205:GLU:HG3	1.76	0.68
8:KM:188:ILE:HD13	8:KM:395:LEU:HD22	1.76	0.68
9:MF:238:THR:OG1	9:MF:318:ARG:NH1	2.27	0.68
9:PJ:1:MET:HG2	9:PJ:46:ARG:HD2	1.76	0.68
8:QE:278:ALA:HA	8:QE:369:ALA:HB2	1.76	0.68
8:QK:56:THR:HA	8:RK:285:GLN:HG3	1.74	0.68
9:QL:152:ILE:HG21	9:QL:196:THR:HG22	1.75	0.68
9:RJ:267:MET:HE1	9:RJ:301:ALA:HB3	1.74	0.68
8:TG:301:GLN:HE22	8:TG:307:PRO:HG3	1.56	0.68
9:VJ:354:CYS:SG	9:VJ:355:ASP:N	2.65	0.68
60:e:96:ILE:HD11	60:e:113:HIS:HD2	1.57	0.68
7:A7:47:ARG:NH2	9:RJ:129:CYS:SG	2.67	0.68
9:AH:372:THR:HG21	9:AH:426:GLN:HB2	1.75	0.68
9:BB:230:SER:HA	9:BB:233:MET:HB2	1.76	0.68
9:JL:272:PRO:HD3	9:JL:289:LEU:HD22	1.75	0.68
9:NH:286:VAL:HG12	9:NH:329:GLN:HE22	1.57	0.68
8:PG:335:ILE:HA	8:PG:338:LYS:HZ3	1.59	0.68
8:PM:108:TYR:O	8:PM:112:LYS:NZ	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RJ:330:MET:HE2	9:RJ:349:VAL:HG11	1.76	0.68
8:TE:207:GLU:OE2	8:TE:304:LYS:NZ	2.27	0.68
8:WG:292:THR:HG21	8:WG:331:ALA:HB1	1.75	0.68
47:Y:443:PHE:HB2	47:Y:448:MET:HB3	1.76	0.68
60:g:333:CYS:SG	60:g:334:HIS:N	2.67	0.68
7:A7:202:MET:HG3	9:SB:337:ASN:HD21	1.58	0.67
5:C:168:LEU:HD11	9:WL:361:LEU:HG	1.75	0.67
29:C1:393:LYS:HZ1	29:DP:280:ILE:HG23	1.59	0.67
8:DE:1:MET:SD	8:DE:130:THR:OG1	2.50	0.67
29:DS:201:ARG:HE	29:DS:471:LYS:HZ3	1.40	0.67
44:EY:328:GLU:HG3	44:EY:405:LEU:HD11	1.74	0.67
9:KF:121:ARG:HH12	57:YK:45:LYS:HE2	1.59	0.67
8:MK:248:LEU:HA	9:ML:11:GLN:HE22	1.59	0.67
8:OK:79:ARG:NH2	8:OK:94:THR:OG1	2.26	0.67
8:QG:139:HIS:ND1	8:QG:146:GLY:O	2.26	0.67
8:RI:384:ILE:HD12	8:RI:388:TRP:HH2	1.59	0.67
9:UD:210:ILE:HD11	9:UD:228:LEU:HD21	1.75	0.67
9:VD:170:VAL:HG21	9:VD:377:LEU:HD21	1.75	0.67
56:XI:73:LEU:HB2	56:XI:167:PHE:HB3	1.76	0.67
58:p:71:ILE:HD11	66:v:382:TRP:HB2	1.75	0.67
6:A0:221:MET:HG2	6:A0:223:LYS:H	1.59	0.67
29:D1:449:MET:HE1	29:EP:286:VAL:HG21	1.74	0.67
8:JK:420:GLU:OE2	8:NI:308:ARG:NH1	2.27	0.67
8:KK:68:VAL:HG11	8:KK:149:PHE:HE2	1.59	0.67
8:LG:139:HIS:NE2	8:LG:168:GLU:OE1	2.27	0.67
9:MD:237:THR:HG22	9:MD:250:LEU:HD21	1.77	0.67
8:PC:271:THR:OG1	8:PC:301:GLN:OE1	2.11	0.67
8:QC:9:VAL:HG11	8:QC:150:ALA:HB2	1.75	0.67
9:QJ:204:ASN:HA	9:QJ:207:LEU:HD12	1.76	0.67
59:a:145:LYS:NZ	59:a:145:LYS:O	2.27	0.67
60:e:608:VAL:HG12	60:e:614:ILE:HG22	1.75	0.67
20:BS:330:ARG:NH1	47:X:158:ASP:OD2	2.23	0.67
9:CJ:334:GLN:HE22	9:CJ:348:ASN:H	1.42	0.67
2:CX:2:MET:O	2:CX:6:LYS:NZ	2.27	0.67
8:FE:90:GLU:HB3	8:FE:121:ARG:HH22	1.57	0.67
8:IO:51:THR:HG21	8:IO:243:ARG:HG2	1.77	0.67
8:SC:269:LEU:HD21	8:SC:301:GLN:HB3	1.77	0.67
9:SH:267:MET:SD	9:SH:299:MET:HE1	2.35	0.67
9:TD:304:ASP:HB3	9:TD:307:HIS:CE1	2.29	0.67
9:TJ:268:PRO:HD2	9:TJ:300:MET:HB2	1.75	0.67
8:UG:1:MET:HB2	8:UG:2:ARG:HE	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UM:262:TYR:HB2	8:UM:265:ILE:HG12	1.76	0.67
8:VC:88:HIS:HB3	8:VC:91:GLN:HG3	1.76	0.67
8:VC:234:ILE:HD11	8:VC:272:TYR:HB2	1.76	0.67
9:VD:53:GLU:OE1	65:t:151:HIS:ND1	2.27	0.67
2:0Y:80:LEU:O	2:0Y:84:PHE:HB2	1.94	0.67
9:AL:309:ARG:HD3	57:YG:56:PRO:HG3	1.76	0.67
21:BV:371:GLN:OE1	9:LB:227:HIS:NE2	2.28	0.67
8:CC:288:VAL:HG21	8:CC:327:ASP:HB3	1.76	0.67
2:CY:58:CYS:O	2:CY:64:ARG:NH2	2.27	0.67
33:Cr:361:ASP:HA	44:ES:236:THR:HG21	1.75	0.67
29:D2:283:PHE:O	29:EA:445:GLN:NE2	2.24	0.67
42:E:743:LYS:HG3	9:IB:320:ARG:HH22	1.58	0.67
8:EG:147:SER:OG	8:EG:190:THR:OG1	2.13	0.67
9:FL:90:PHE:HB3	9:FL:92:PHE:HE2	1.60	0.67
9:IN:304:ASP:OD2	9:IN:307:HIS:ND1	2.23	0.67
9:NL:189:VAL:HA	9:NL:192:LEU:HB2	1.75	0.67
9:PH:62:ARG:HA	9:PH:86:ARG:HH22	1.60	0.67
9:QB:16:ILE:HA	9:QB:226:ASN:HD21	1.59	0.67
9:QH:204:ASN:OD1	69:QH:501:GDP:N2	2.27	0.67
8:RA:389:ALA:O	8:RA:393:HIS:ND1	2.27	0.67
8:VI:215:ARG:HH12	8:VI:299:ALA:HB1	1.59	0.67
9:VN:354:CYS:SG	9:VN:355:ASP:N	2.67	0.67
57:YK:157:LEU:HB3	57:YK:196:ILE:HG21	1.75	0.67
2:0W:111:LEU:HD13	2:0W:141:LEU:HD22	1.77	0.67
6:A0:167:LEU:O	8:IE:214:ARG:NH2	2.27	0.67
8:BA:3:GLU:HA	8:BA:51:THR:HA	1.75	0.67
29:D5:465:LEU:O	29:D5:469:LYS:HB2	1.94	0.67
9:DH:398:TYR:HB3	9:DH:403:MET:HE2	1.76	0.67
9:DJ:271:ALA:O	9:DJ:292:GLN:NE2	2.28	0.67
9:ED:8:GLN:HE21	9:ED:17:GLY:HA3	1.59	0.67
8:EM:311:LYS:H	8:EM:382:THR:HB	1.60	0.67
8:FG:326:LYS:NZ	8:FG:327:ASP:OD1	2.26	0.67
8:GK:276:ILE:HG21	8:GK:286:LEU:HD21	1.76	0.67
8:IK:161:TYR:HD2	8:IK:164:LYS:HG3	1.59	0.67
9:NF:6:HIS:ND1	9:NF:134:GLN:HG2	2.08	0.67
8:PE:157:LEU:HG	8:PE:166:LYS:HZ3	1.59	0.67
8:QC:271:THR:OG1	8:QC:301:GLN:NE2	2.28	0.67
8:QG:211:ASP:HA	8:QG:214:ARG:HH12	1.59	0.67
8:QI:55:GLU:O	8:RI:285:GLN:NE2	2.28	0.67
8:SG:71:GLU:HB2	8:SG:98:ASP:HB3	1.77	0.67
9:SL:69:GLU:HG3	9:SL:71:GLY:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TD:73:MET:HE1	9:TD:92:PHE:HB3	1.75	0.67
9:UB:36:TYR:OH	9:UB:40:SER:O	2.13	0.67
21:Bj:145:ASP:HB3	21:Bj:148:PHE:HB2	1.75	0.67
9:CL:215:LEU:HD12	47:Y:313:LEU:HD21	1.76	0.67
9:HN:257:MET:HE3	9:HN:314:ALA:HB2	1.75	0.67
9:JH:253:LEU:O	9:JH:257:MET:HB2	1.94	0.67
8:JM:381:THR:HG22	8:JM:383:ALA:H	1.60	0.67
9:NH:19:LYS:HA	9:NH:22:GLU:HG2	1.76	0.67
9:PL:86:ARG:HE	9:QL:282:ARG:HH22	1.42	0.67
9:UF:1:MET:O	8:UG:96:LYS:NZ	2.28	0.67
3:1:123:VAL:HG21	3:1:198:LEU:HD11	1.77	0.67
7:A1:249:LEU:HD13	9:O0:73:MET:HE1	1.76	0.67
8:AA:180:ALA:HB3	8:AA:183:GLU:HG3	1.75	0.67
9:EH:173:PRO:HB3	9:EH:380:ARG:NE	2.08	0.67
8:IC:298:PRO:HG2	8:IC:308:ARG:HH21	1.59	0.67
8:IG:414:GLU:HG2	8:IG:416:GLY:H	1.60	0.67
8:JK:258:ASN:HD21	9:JL:178:THR:HG23	1.59	0.67
9:MD:49:VAL:HG11	9:MD:241:ARG:HG2	1.77	0.67
9:MF:69:GLU:HG2	9:MF:71:GLY:H	1.59	0.67
8:QM:53:PHE:HB3	8:QM:61:HIS:HB3	1.76	0.67
9:RD:48:ASN:O	9:RD:62:ARG:NH2	2.28	0.67
7:A8:240:ILE:O	9:TF:297:LYS:NZ	2.27	0.67
8:AA:214:ARG:HH21	8:AA:215:ARG:HG3	1.60	0.67
9:AF:161:ASP:OD1	9:AF:162:ARG:NH1	2.27	0.67
12:AW:59:ASP:OD1	12:AW:64:ASN:ND2	2.26	0.67
13:Ab:576:THR:HG22	29:DU:379:MET:HE3	1.77	0.67
16:At:258:PRO:HG2	8:FI:341:ILE:HD11	1.77	0.67
8:CG:254:GLU:OE1	9:CH:99:ASN:ND2	2.28	0.67
33:Cs:173:ASN:OD1	43:E4:126:GLN:NE2	2.27	0.67
8:EI:176:GLN:HG2	8:EI:177:VAL:HG13	1.75	0.67
8:HO:69:ASP:OD1	8:HO:71:GLU:N	2.27	0.67
9:JB:178:THR:HB	9:JB:181:GLU:HB2	1.77	0.67
9:KN:379:LYS:HG2	9:KN:419:VAL:HG21	1.77	0.67
8:MG:286:LEU:O	8:MG:373:ARG:NH1	2.28	0.67
9:OF:207:LEU:HB3	9:OF:225:LEU:HD11	1.76	0.67
9:PF:354:CYS:SG	9:PF:355:ASP:N	2.68	0.67
8:PM:16:ILE:HD11	8:PM:231:ILE:HG21	1.77	0.67
9:UF:324:LYS:HZ1	8:UG:221:ARG:HA	1.60	0.67
9:WF:379:LYS:HE2	9:WF:419:VAL:HG13	1.76	0.67
56:XJ:6:PHE:HD2	56:XJ:8:SER:HB2	1.60	0.67
7:A9:30:TYR:O	8:TE:308:ARG:NH2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AD:48:ASN:HD22	14:BZ:225:PHE:HB2	1.60	0.67
10:AS:38:TYR:CE1	4:y:1402:GLN:HG2	2.30	0.67
9:BL:293:MET:HE1	9:BL:365:ALA:HB3	1.77	0.67
8:CC:88:HIS:HB3	8:CC:91:GLN:HB2	1.77	0.67
9:EN:62:ARG:NH2	9:EN:127:CYS:SG	2.68	0.67
9:GL:378:PHE:HB3	9:GL:415:MET:HE1	1.77	0.67
9:HL:271:ALA:HB2	9:HL:293:MET:HG3	1.77	0.67
9:IF:88:ASP:OD1	8:JE:280:LYS:NZ	2.28	0.67
8:LM:292:THR:HG21	8:LM:331:ALA:HB1	1.77	0.67
8:ME:254:GLU:OE1	9:MF:99:ASN:ND2	2.28	0.67
9:ND:252:LYS:NZ	8:NE:71:GLU:OE2	2.27	0.67
9:OF:54:ALA:HB3	9:OF:58:LYS:HB3	1.77	0.67
8:OK:392:ASP:HA	8:OK:422:ARG:HH22	1.59	0.67
8:PE:216:ASN:HD21	8:PE:275:VAL:HG13	1.59	0.67
8:SE:215:ARG:HH21	8:SE:299:ALA:HB1	1.60	0.67
8:SM:4:CYS:SG	8:SM:133:GLN:NE2	2.68	0.67
9:TH:218:THR:HG23	9:TH:219:THR:HG23	1.76	0.67
8:VE:138:PHE:HE1	8:VE:169:PHE:HD1	1.43	0.67
8:AA:238:ILE:HD11	8:AA:378:LEU:HD11	1.77	0.67
9:AJ:230:SER:HA	9:AJ:233:MET:HG2	1.77	0.67
15:Ap:122:ARG:NH1	32:Cm:252:ASP:OD2	2.28	0.67
28:C5:401:ASP:OD1	28:C5:405:ARG:NH1	2.28	0.67
8:CC:88:HIS:NE2	8:DC:284:GLU:OE2	2.26	0.67
43:E1:101:ARG:NH1	28:F3:148:GLU:OE1	2.29	0.67
29:EA:392:LEU:HB2	29:EA:426:ILE:HG21	1.75	0.67
9:FF:247:ASN:ND2	8:FG:11:GLN:OE1	2.28	0.67
8:FG:206:ASN:HA	8:FG:209:ILE:HD12	1.77	0.67
9:FH:164:MET:N	9:FH:164:MET:SD	2.68	0.67
8:FM:147:SER:HB2	8:FM:190:THR:HG21	1.77	0.67
8:HG:130:THR:HG23	64:ke:111:LEU:HD22	1.76	0.67
9:IF:94:GLN:HE21	51:N:136:PRO:HB2	1.60	0.67
8:IG:311:LYS:NZ	8:IG:342:GLN:OE1	2.23	0.67
8:IO:80:THR:O	8:IO:84:ARG:NH1	2.28	0.67
9:JN:27:GLU:OE2	9:JN:241:ARG:NH2	2.27	0.67
9:LF:331:LEU:HD21	8:LG:176:GLN:HG2	1.75	0.67
54:S:167:ASN:N	54:S:167:ASN:ND2	2.40	0.67
60:f:338:VAL:HG23	60:f:608:VAL:HB	1.77	0.67
3:x:40:ILE:HG22	3:x:89:VAL:HG12	1.77	0.67
13:Ad:475:PRO:HG3	13:Ad:500:ASN:HD21	1.60	0.66
16:Ax:88:ALA:O	9:FF:336:LYS:NZ	2.28	0.66
9:CD:375:GLN:HG3	9:CD:423:GLN:HE22	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DS:162:GLU:OE2	29:DS:310:SER:OG	2.13	0.66
9:FH:248:ALA:HA	9:FH:252:LYS:HD3	1.75	0.66
8:HG:293:ASN:OD1	8:HG:338:LYS:NZ	2.28	0.66
50:L2:40:GLU:O	59:b:228:GLN:NE2	2.28	0.66
9:PF:66:VAL:HG12	9:PF:91:VAL:HB	1.76	0.66
9:SD:245:GLN:O	8:SE:11:GLN:NE2	2.28	0.66
9:UH:20:PHE:CE1	9:UH:233:MET:HG3	2.30	0.66
8:UM:244:PHE:HB2	8:UM:356:ASN:HD21	1.60	0.66
2:0e:114:LEU:HD21	2:0e:144:ILE:HD13	1.76	0.66
8:AM:377:MET:HE3	8:AM:379:SER:HB3	1.78	0.66
12:AW:345:ILE:HG13	12:AW:346:PHE:HD2	1.60	0.66
8:BE:257:THR:HG21	9:BF:99:ASN:HB3	1.78	0.66
21:Bi:362:ASN:HB3	9:LN:284:LEU:HB3	1.75	0.66
8:CI:88:HIS:HB3	8:CI:91:GLN:HB2	1.77	0.66
9:DN:58:LYS:HZ1	9:DN:60:VAL:HB	1.60	0.66
8:EC:326:LYS:HG3	9:ED:220:PRO:HG2	1.78	0.66
8:IE:68:VAL:HG12	8:IE:93:ILE:HB	1.77	0.66
8:JK:254:GLU:OE2	8:JK:258:ASN:ND2	2.28	0.66
8:LI:104:ALA:HB2	8:LI:413:MET:HE2	1.77	0.66
8:LK:71:GLU:HB2	8:LK:98:ASP:HB3	1.77	0.66
9:PL:354:CYS:SG	9:PL:355:ASP:N	2.68	0.66
8:RM:402:ARG:HH21	8:RM:415:GLU:HG3	1.60	0.66
9:SJ:228:LEU:HD11	9:SJ:273:LEU:HD21	1.76	0.66
3:x:82:CYS:HB3	3:x:85:LYS:HZ1	1.59	0.66
19:BP:476:GLN:NE2	8:MG:161:TYR:O	2.28	0.66
14:Bd:227:PRO:HD2	14:Bd:245:MET:HE1	1.78	0.66
9:CH:202:ILE:HG12	9:CH:300:MET:HB3	1.76	0.66
9:CL:354:CYS:SG	9:CL:355:ASP:N	2.68	0.66
2:Cb:50:VAL:HG21	2:Cb:70:PHE:HE2	1.60	0.66
29:D2:401:CYS:SG	29:D8:269:LYS:NZ	2.63	0.66
29:D3:145:LEU:HD11	29:D4:398:ARG:HD3	1.78	0.66
8:DI:381:THR:HG22	8:DI:383:ALA:H	1.61	0.66
28:F4:149:ARG:NH2	28:F5:412:CYS:SG	2.68	0.66
8:HI:71:GLU:HG2	8:HI:98:ASP:HB3	1.78	0.66
9:IJ:334:GLN:HE22	9:IJ:348:ASN:H	1.43	0.66
9:JL:270:PHE:O	9:JL:298:ASN:ND2	2.28	0.66
8:OG:320:ARG:HB2	8:OG:374:ALA:HB3	1.78	0.66
9:TH:324:LYS:HE3	8:TI:222:PRO:HG2	1.77	0.66
8:WC:88:HIS:ND1	8:WC:90:GLU:OE1	2.29	0.66
57:YJ:130:GLY:O	57:YJ:134:MET:HB2	1.96	0.66
4:3:1321:TRP:HE1	4:3:1422:LEU:HD13	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BH:207:LEU:HB3	9:BH:225:LEU:HD22	1.78	0.66
28:C7:176:ASP:OD2	29:Cz:369:GLN:NE2	2.28	0.66
9:CD:260:PHE:HB2	9:CD:263:LEU:HD13	1.76	0.66
9:CF:245:GLN:O	8:CG:11:GLN:NE2	2.28	0.66
9:CH:46:ARG:NH2	8:CI:76:ASP:OD2	2.28	0.66
9:EN:398:TYR:HB3	9:EN:403:MET:HE2	1.76	0.66
8:FM:332:ILE:HG23	9:FN:175:VAL:HG21	1.77	0.66
9:GN:282:ARG:NH2	9:GN:292:GLN:OE1	2.29	0.66
8:HO:108:TYR:O	8:HO:112:LYS:NZ	2.23	0.66
9:KB:314:ALA:HB3	9:KB:368:ILE:HB	1.77	0.66
8:LI:262:TYR:HB2	8:LI:265:ILE:HD12	1.76	0.66
8:OC:371:VAL:HG12	8:OC:373:ARG:H	1.61	0.66
8:OE:324:VAL:HG12	8:OE:326:LYS:H	1.58	0.66
9:PF:276:ARG:NH2	9:PF:279:GLN:OE1	2.26	0.66
9:QB:156:ARG:HH12	9:QB:196:THR:HA	1.60	0.66
9:VN:279:GLN:HG3	59:b:234:ARG:HH22	1.60	0.66
6:A0:164:MET:HE2	6:A0:167:LEU:HD12	1.78	0.66
7:Av:146:MET:SD	7:Av:146:MET:N	2.69	0.66
18:Bz:125:LYS:NZ	18:Bz:138:ASP:OD1	2.28	0.66
5:C:103:ILE:HD12	5:C:105:HIS:HB3	1.78	0.66
28:C7:85:SER:OG	28:C7:86:ASN:N	2.28	0.66
8:DC:414:GLU:HG2	8:DC:416:GLY:H	1.59	0.66
9:ED:97:ALA:HA	9:ED:103:LYS:HG2	1.77	0.66
9:FB:121:ARG:O	9:FB:125:GLU:HB3	1.96	0.66
8:FE:295:CYS:HB3	8:FE:377:MET:HG2	1.78	0.66
8:HM:439:SER:OG	9:HN:390:ARG:NH1	2.29	0.66
8:IG:71:GLU:HG3	8:IG:98:ASP:HB3	1.77	0.66
9:IH:248:ALA:HA	9:IH:252:LYS:HG3	1.78	0.66
8:JG:3:GLU:HA	8:JG:51:THR:HA	1.77	0.66
9:O0:44:LEU:HD12	9:O0:47:ILE:HD11	1.78	0.66
8:OI:97:GLU:HG2	8:OI:105:ARG:HH12	1.60	0.66
9:RD:253:LEU:O	9:RD:257:MET:HB2	1.96	0.66
9:UH:376:GLU:HA	9:UH:379:LYS:HE3	1.78	0.66
8:VC:295:CYS:SG	8:VC:377:MET:HE3	2.36	0.66
9:VD:101:TRP:HD1	9:VD:403:MET:HE1	1.60	0.66
8:VG:27:GLU:OE2	8:VG:243:ARG:NH1	2.28	0.66
60:g:523:SER:OG	60:g:554:MET:SD	2.53	0.66
7:A7:143:MET:HE1	8:SE:298:PRO:HB2	1.77	0.66
13:Ad:569:ARG:HG2	13:Ad:585:VAL:HG11	1.77	0.66
17:B0:34:LEU:HD12	8:MG:304:LYS:HE3	1.77	0.66
8:BK:349:THR:HG23	9:BL:176:SER:OG	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:C3:106:ASN:ND2	28:C5:458:ASP:OD2	2.28	0.66
8:CG:88:HIS:HB3	8:CG:91:GLN:HB2	1.77	0.66
9:CJ:213:ARG:HG3	9:CJ:297:LYS:HZ3	1.60	0.66
2:Ce:52:SER:O	2:Ce:56:HIS:HB2	1.96	0.66
35:DY:75:ASP:O	35:DY:79:ASN:ND2	2.27	0.66
8:EI:316:CYS:HB3	8:EI:378:LEU:HB2	1.75	0.66
8:FC:64:ARG:NH2	8:FC:129:CYS:SG	2.68	0.66
8:NI:180:ALA:HB3	8:NI:183:GLU:HG2	1.77	0.66
9:QH:103:LYS:HB2	9:QH:108:GLU:HG3	1.77	0.66
8:QI:288:VAL:HA	8:QI:291:ILE:HG22	1.76	0.66
8:TE:298:PRO:HG2	8:TE:308:ARG:HH21	1.59	0.66
9:VJ:303:CYS:SG	9:VJ:304:ASP:N	2.69	0.66
9:WL:323:MET:HA	9:WL:326:VAL:HG12	1.78	0.66
8:WM:200:CYS:HA	8:WM:266:HIS:HB2	1.78	0.66
57:YJ:143:LEU:HD23	57:YJ:144:PRO:HD3	1.76	0.66
6:A0:179:PRO:HB3	9:HD:126:SER:HA	1.76	0.66
7:Ay:16:ARG:NH2	9:FL:402:GLY:O	2.29	0.66
8:DE:326:LYS:HB2	9:DF:208:TYR:CE1	2.30	0.66
9:EB:152:ILE:HG21	9:EB:196:THR:HG22	1.78	0.66
9:EF:237:THR:HG22	9:EF:241:ARG:HE	1.60	0.66
9:FN:270:PHE:O	9:FN:298:ASN:ND2	2.28	0.66
9:FN:375:GLN:HG2	9:FN:379:LYS:HE2	1.77	0.66
8:GE:311:LYS:HE3	8:GE:344:VAL:H	1.61	0.66
9:HN:1:MET:HE2	8:HO:72:PRO:HG3	1.77	0.66
47:I:153:ARG:HH21	47:I:162:HIS:CG	2.13	0.66
8:MC:88:HIS:HB3	8:MC:91:GLN:HB2	1.77	0.66
8:MI:56:THR:HG23	8:MI:58:ALA:H	1.60	0.66
9:N0:202:ILE:HG13	9:N0:300:MET:HB3	1.78	0.66
9:N0:354:CYS:SG	9:N0:355:ASP:N	2.69	0.66
9:ND:73:MET:HE1	9:ND:92:PHE:CD2	2.30	0.66
8:NK:21:TRP:HE1	8:NK:63:PRO:HB3	1.60	0.66
8:OC:188:ILE:HD12	8:OC:395:LEU:HD12	1.78	0.66
9:PH:354:CYS:SG	9:PH:355:ASP:N	2.65	0.66
8:QC:180:ALA:HB3	8:QC:183:GLU:HG3	1.77	0.66
9:WD:207:LEU:HD23	9:WD:225:LEU:HB3	1.77	0.66
59:b:388:ARG:O	59:b:392:ASN:ND2	2.29	0.66
2:0A:101:CYS:HA	2:0A:145:ILE:HD11	1.78	0.66
9:AF:372:THR:HG21	9:AF:426:GLN:HB2	1.76	0.66
9:AH:46:ARG:NH2	8:AI:72:PRO:O	2.29	0.66
24:Bh:58:TYR:HB3	9:GF:42:LEU:HD22	1.77	0.66
8:CE:79:ARG:NH1	48:J:107:GLY:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:111:LEU:HD22	2:CX:141:LEU:HD22	1.77	0.66
9:DH:100:ASN:HD21	9:DH:103:LYS:HG3	1.58	0.66
29:DT:361:GLN:HG3	29:DT:458:LEU:HD11	1.78	0.66
43:E3:74:GLU:OE2	43:E3:81:ARG:NH1	2.29	0.66
8:EI:7:ILE:HD11	8:EI:122:ILE:HD11	1.78	0.66
9:HF:94:GLN:NE2	64:ke:18:MET:SD	2.67	0.66
9:HN:324:LYS:NZ	8:HO:222:PRO:O	2.29	0.66
9:LD:143:THR:O	9:LD:147:MET:HB3	1.95	0.66
9:LL:291:GLN:OE1	9:ML:122:LYS:NZ	2.22	0.66
9:NB:257:MET:SD	9:NB:257:MET:N	2.69	0.66
8:RA:278:ALA:HA	8:RA:369:ALA:HB2	1.78	0.66
9:RF:375:GLN:CD	9:RF:423:GLN:HE22	2.03	0.66
8:TC:129:CYS:SG	8:TC:130:THR:N	2.69	0.66
9:TD:256:ASN:HD21	9:TD:350:LYS:HD3	1.60	0.66
9:TH:2:ARG:HB3	9:TH:131:GLN:HB2	1.77	0.66
9:UD:230:SER:HA	9:UD:233:MET:HB2	1.78	0.66
9:VD:12:CYS:SG	9:VD:13:GLY:N	2.69	0.66
56:XL:46:VAL:HG21	56:XL:161:ARG:HD3	1.78	0.66
9:CD:354:CYS:SG	9:CD:355:ASP:N	2.68	0.66
9:CH:314:ALA:HB3	9:CH:368:ILE:HB	1.77	0.66
2:CU:15:LYS:HB3	2:CU:73:ILE:HD11	1.78	0.66
29:D4:145:LEU:HB3	29:D4:271:LEU:HD12	1.78	0.66
29:D5:187:LEU:HD21	29:D5:335:LEU:HD21	1.78	0.66
8:DG:63:PRO:O	8:DG:91:GLN:NE2	2.25	0.66
28:F4:111:ASN:OD1	28:F4:114:ARG:NH2	2.29	0.66
9:FN:31:ASP:OD1	9:FN:37:HIS:NE2	2.28	0.66
9:LH:385:PHE:HZ	9:LH:408:PHE:HB3	1.61	0.66
8:PG:295:CYS:HB3	8:PG:377:MET:HE2	1.78	0.66
9:PJ:49:VAL:HG11	9:PJ:241:ARG:HB3	1.78	0.66
9:QF:245:GLN:O	8:QG:11:GLN:NE2	2.29	0.66
9:QL:323:MET:O	9:QL:327:ASP:HB2	1.96	0.66
8:RK:276:ILE:HG13	8:RK:280:LYS:HB3	1.77	0.66
9:VH:354:CYS:SG	9:VH:355:ASP:N	2.69	0.66
9:WD:285:THR:HG22	9:WD:287:PRO:HD2	1.78	0.66
59:b:270:ARG:HH12	59:b:274:ALA:HB2	1.61	0.66
59:c:183:MET:SD	59:d:511:ARG:NH1	2.69	0.66
8:AC:180:ALA:HB3	8:AC:183:GLU:HG3	1.78	0.66
9:AH:274:THR:HG22	9:AH:282:ARG:HH11	1.59	0.66
9:BB:32:PRO:HD3	9:BB:81:PHE:CE1	2.30	0.66
8:BM:408:TYR:HB3	8:BM:413:MET:HG2	1.77	0.66
19:BP:366:LYS:NZ	8:MI:108:TYR:OH	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EI:168:GLU:OE1	8:EI:198:SER:OG	2.14	0.66
8:EK:255:PHE:O	8:EK:259:LEU:HB2	1.95	0.66
8:HC:377:MET:SD	8:HC:379:SER:OG	2.54	0.66
9:ID:44:LEU:HD12	62:i:9:ARG:HD2	1.78	0.66
9:JH:406:MET:HE2	9:NF:306:ARG:HB3	1.78	0.66
8:KC:329:ASN:ND2	9:KD:205:GLU:OE2	2.29	0.66
9:KL:314:ALA:HB3	9:KL:368:ILE:HB	1.78	0.66
9:LB:237:THR:HG22	9:LB:250:LEU:HD21	1.78	0.66
8:MI:395:LEU:HD22	8:MI:422:ARG:HD3	1.78	0.66
9:NL:314:ALA:HB3	9:NL:368:ILE:HB	1.78	0.66
8:PC:23:LEU:HB2	8:PC:229:ARG:HH22	1.61	0.66
8:PE:2:ARG:HH21	8:PE:50:ASN:HD21	1.43	0.66
8:QK:53:PHE:HB3	8:QK:61:HIS:HB3	1.78	0.66
9:TD:178:THR:HB	9:TD:181:GLU:HG3	1.77	0.66
8:AC:306:ASP:OD2	8:AC:309:HIS:NE2	2.28	0.65
17:B8:228:ARG:HH22	44:EU:447:GLN:HG2	1.61	0.65
8:CA:267:PHE:HB3	8:CA:384:ILE:HD13	1.78	0.65
9:DF:1:MET:HE1	8:DG:96:LYS:HG2	1.78	0.65
8:DI:207:GLU:HG3	8:DI:304:LYS:HE2	1.78	0.65
9:EJ:245:GLN:HG2	8:EK:224:TYR:HD2	1.62	0.65
44:EW:138:LEU:HD22	44:EW:194:ILE:HG13	1.79	0.65
8:HK:292:THR:HG23	8:HK:317:MET:HE1	1.76	0.65
8:IE:322:ASP:OD2	8:IE:373:ARG:NH2	2.28	0.65
50:L1:26:SER:O	59:a:240:ARG:NH1	2.24	0.65
8:LK:188:ILE:HG13	8:LK:395:LEU:HD22	1.78	0.65
8:NC:88:HIS:HB3	8:NC:91:GLN:OE1	1.96	0.65
9:OF:398:TYR:HB3	9:OF:403:MET:HG3	1.76	0.65
9:RJ:391:ARG:O	9:RJ:391:ARG:NH1	2.28	0.65
8:WE:11:GLN:HA	8:WE:14:VAL:HG12	1.78	0.65
9:WH:386:THR:O	9:WH:390:ARG:NH1	2.27	0.65
9:WJ:260:PHE:HB2	9:WJ:263:LEU:HD13	1.77	0.65
60:e:340:ASP:OD2	60:e:383:ILE:N	2.21	0.65
9:DB:230:SER:HA	9:DB:233:MET:HB2	1.78	0.65
29:DQ:191:LEU:HB2	29:DQ:225:ILE:HG21	1.79	0.65
8:EC:278:ALA:HA	8:EC:369:ALA:HB2	1.76	0.65
44:EZ:123:GLU:OE2	44:EZ:272:ARG:NH1	2.29	0.65
9:GL:372:THR:HA	9:GL:422:TYR:CE2	2.30	0.65
9:IL:230:SER:HA	9:IL:233:MET:HE2	1.79	0.65
49:K1:41:PRO:HG3	49:K1:70:LEU:HD11	1.78	0.65
50:L1:131:ASN:HA	9:WD:217:LEU:HD13	1.78	0.65
9:OJ:344:TRP:HD1	9:OJ:345:ILE:HG23	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OK:51:THR:HG21	8:OK:243:ARG:HG2	1.79	0.65
9:QF:315:ALA:HB1	9:QF:317:PHE:HE2	1.61	0.65
9:QJ:46:ARG:HE	9:QJ:243:PRO:HD3	1.62	0.65
8:SK:249:ASN:ND2	9:SL:69:GLU:OE2	2.29	0.65
9:SL:232:THR:HG21	9:SL:300:MET:HE1	1.77	0.65
9:VH:170:VAL:HG21	9:VH:377:LEU:HD21	1.77	0.65
8:VI:339:ARG:HG3	55:W:129:LYS:HG2	1.78	0.65
9:WL:379:LYS:HZ2	9:WL:419:VAL:HG13	1.60	0.65
2:0e:8:SER:HB3	2:0e:80:LEU:HD11	1.77	0.65
6:A0:190:TRP:HZ3	9:HD:93:GLY:HA2	1.62	0.65
13:Aa:451:VAL:HG23	13:Aa:466:PHE:HB3	1.77	0.65
15:Aq:122:ARG:HH11	32:Co:248:GLN:HB3	1.62	0.65
7:Ay:141:ALA:H	8:GE:308:ARG:HE	1.44	0.65
18:Bz:11:GLU:N	60:e:390:LYS:HZ1	1.94	0.65
9:DJ:286:VAL:HG11	9:DJ:325:GLU:HB3	1.76	0.65
9:EL:31:ASP:OD1	9:EL:33:THR:OG1	2.14	0.65
8:FI:54:SER:OG	8:FI:64:ARG:NH1	2.30	0.65
9:GH:392:LYS:NZ	9:GH:405:GLU:OE2	2.29	0.65
9:HD:30:ILE:HD11	9:HD:47:ILE:HD11	1.78	0.65
9:OJ:1:MET:N	9:OJ:3:GLU:OE2	2.30	0.65
8:PC:168:GLU:HB2	8:PC:201:ALA:HA	1.78	0.65
8:PI:165:SER:OG	8:PI:256:GLN:OE1	2.14	0.65
8:SE:180:ALA:HB3	8:SE:183:GLU:HG3	1.78	0.65
8:VC:292:THR:HG21	8:VC:331:ALA:HB1	1.77	0.65
8:VI:154:MET:HE1	8:VI:194:THR:HG22	1.77	0.65
9:WJ:48:ASN:O	9:WJ:62:ARG:NH2	2.26	0.65
56:XJ:8:SER:OG	56:XJ:9:GLY:N	2.29	0.65
60:f:211:VAL:HG21	60:f:225:LEU:HB3	1.78	0.65
7:A7:142:TYR:O	8:SE:308:ARG:NH2	2.29	0.65
9:BD:362:LYS:HD2	14:BZ:270:HIS:NE2	2.11	0.65
9:BF:354:CYS:SG	9:BF:355:ASP:N	2.69	0.65
8:CA:79:ARG:HH22	48:M:107:GLY:N	1.94	0.65
9:CJ:378:PHE:HB3	9:CJ:415:MET:HE1	1.77	0.65
8:CK:286:LEU:O	8:CK:373:ARG:NH1	2.29	0.65
29:EA:113:ARG:HG3	29:EO:370:GLU:HG3	1.78	0.65
9:EJ:55:THR:OG1	9:FJ:283:ALA:O	2.14	0.65
9:EN:178:THR:HB	9:EN:181:GLU:HG3	1.78	0.65
8:KI:151:SER:HB2	8:KI:193:THR:HG21	1.79	0.65
8:QA:277:SER:H	8:QA:280:LYS:HB2	1.61	0.65
8:QE:288:VAL:HA	8:QE:291:ILE:HG22	1.77	0.65
8:RM:395:LEU:HD23	8:RM:422:ARG:HD2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SD:156:ARG:NH2	9:SD:197:ASP:OD1	2.29	0.65
9:TD:321:MET:HE2	9:TD:363:MET:HE2	1.77	0.65
8:TE:156:ARG:O	8:TE:160:ASP:HB3	1.97	0.65
8:TM:27:GLU:HG3	8:TM:361:THR:HG21	1.78	0.65
8:UC:209:ILE:HD11	8:UC:302:MET:HE1	1.77	0.65
9:UD:267:MET:HE3	9:UD:299:MET:HE2	1.77	0.65
8:UK:53:PHE:HB3	8:UK:61:HIS:HB3	1.79	0.65
9:VH:252:LYS:NZ	8:VI:101:ASN:OD1	2.26	0.65
58:Z:114:GLU:OE1	58:Z:117:ARG:NH2	2.29	0.65
3:x:245:ALA:O	3:x:249:GLN:NE2	2.30	0.65
8:BA:123:ARG:O	8:BA:123:ARG:NH1	2.29	0.65
9:CH:354:CYS:SG	9:CH:355:ASP:N	2.70	0.65
29:D1:393:LYS:HB3	29:D2:280:ILE:HG12	1.79	0.65
9:EN:285:THR:H	9:EN:288:GLU:HB2	1.61	0.65
44:EW:72:ASP:OD1	44:EW:76:ARG:NH2	2.29	0.65
42:F:538:ARG:HD2	61:h:101:LEU:HD12	1.77	0.65
8:GM:93:ILE:HD11	8:GM:121:ARG:HG3	1.78	0.65
8:IM:262:TYR:OH	9:IN:391:ARG:O	2.14	0.65
8:JC:254:GLU:OE1	9:JD:99:ASN:ND2	2.28	0.65
67:O0:502:GTP:N2	8:OA:206:ASN:OD1	2.30	0.65
9:PF:239:CYS:HB3	9:PF:247:ASN:HB2	1.79	0.65
8:QE:251:ASP:H	8:QE:254:GLU:HG3	1.62	0.65
8:QE:297:GLU:O	8:QE:301:GLN:NE2	2.29	0.65
8:RM:76:ASP:HA	8:RM:79:ARG:HD2	1.77	0.65
8:SE:132:LEU:O	8:SE:164:LYS:NZ	2.29	0.65
8:UM:326:LYS:NZ	9:UN:218:THR:O	2.29	0.65
9:VF:156:ARG:HH11	9:VF:164:MET:HG2	1.60	0.65
9:VH:267:MET:HE1	9:VH:299:MET:HE1	1.79	0.65
2:0i:92:PRO:HD2	2:0i:93:VAL:H	1.62	0.65
8:BE:292:THR:HG21	8:BE:331:ALA:HB1	1.78	0.65
8:CA:89:PRO:CB	48:M:106:PRO:HG2	2.26	0.65
9:CJ:354:CYS:SG	9:CJ:355:ASP:N	2.70	0.65
2:Cf:128:CYS:HB3	2:Cf:132:ARG:HH21	1.61	0.65
9:DL:189:VAL:HA	9:DL:192:LEU:HB2	1.79	0.65
9:EH:236:VAL:HG22	9:EH:368:ILE:HD11	1.79	0.65
8:FC:328:VAL:HG11	8:FC:353:VAL:HG21	1.79	0.65
8:JC:274:PRO:HG3	8:JC:291:ILE:HD11	1.79	0.65
9:NH:290:THR:HG21	9:NH:329:GLN:HB3	1.79	0.65
8:OC:329:ASN:HA	8:OC:332:ILE:HG12	1.79	0.65
9:OF:156:ARG:NH2	9:OF:162:ARG:O	2.30	0.65
8:OG:215:ARG:NH2	8:OG:299:ALA:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PA:16:ILE:HG22	8:PA:20:CYS:HB3	1.78	0.65
9:PD:320:ARG:O	9:PD:362:LYS:NZ	2.30	0.65
9:SJ:252:LYS:O	9:SJ:256:ASN:ND2	2.29	0.65
9:TL:299:MET:HE3	9:TL:300:MET:H	1.61	0.65
2:0i:87:LEU:HD23	2:0i:152:TRP:HH2	1.61	0.65
3:1:141:VAL:HG13	3:1:142:LEU:HG	1.79	0.65
8:AC:172:TYR:OH	8:AC:387:ALA:O	2.15	0.65
13:Aa:623:ARG:NH2	9:EL:55:THR:O	2.24	0.65
8:BC:88:HIS:HB3	8:BC:91:GLN:HB2	1.79	0.65
8:CC:71:GLU:HB2	8:CC:98:ASP:HB3	1.78	0.65
8:CE:209:ILE:HA	8:CE:212:ILE:HG12	1.79	0.65
9:DL:330:MET:HG2	9:DL:349:VAL:HG11	1.79	0.65
29:DW:217:ASN:HB3	29:DW:342:THR:HG22	1.79	0.65
9:GB:296:ALA:HA	9:GB:299:MET:HE3	1.78	0.65
9:GH:3:GLU:HG3	9:GH:127:CYS:HB2	1.79	0.65
9:GJ:1:MET:N	9:GJ:1:MET:SD	2.69	0.65
8:HE:417:GLU:HA	8:HE:420:GLU:HG2	1.78	0.65
8:IC:317:MET:HE1	8:IC:351:PHE:CE1	2.32	0.65
9:KB:213:ARG:HH12	9:KB:297:LYS:HB2	1.62	0.65
9:OB:189:VAL:HG13	9:OB:415:MET:HE2	1.78	0.65
9:PD:51:TYR:HB3	9:PD:59:TYR:HB3	1.78	0.65
8:PE:9:VAL:HG11	8:PE:150:ALA:HB2	1.77	0.65
8:QK:247:ALA:HB3	8:QK:355:ILE:HD11	1.76	0.65
9:SD:136:THR:HG23	9:SD:167:PHE:HB3	1.79	0.65
9:VH:204:ASN:OD1	69:VH:501:GDP:N2	2.29	0.65
4:3:1338:GLU:HG2	4:3:1376:ALA:HA	1.79	0.65
14:B7:53:CYS:SG	14:B7:54:SER:N	2.70	0.65
9:BB:209:ASP:OD2	9:BB:213:ARG:NH2	2.30	0.65
8:BK:349:THR:HG21	9:BL:179:VAL:HA	1.77	0.65
19:BO:247:LEU:H	19:BR:400:MET:HE1	1.61	0.65
28:C7:417:GLN:NE2	28:C8:291:ASP:OD2	2.30	0.65
28:C8:458:ASP:OD2	28:DO:106:ASN:ND2	2.30	0.65
8:CA:204:VAL:HG11	8:CA:231:ILE:HD11	1.78	0.65
33:Cq:109:PRO:HB2	33:Cq:144:ILE:HD11	1.79	0.65
33:Cv:43:ARG:NH2	33:Cw:296:ASP:OD1	2.29	0.65
29:EP:371:ILE:HG12	29:EP:447:LEU:HD23	1.78	0.65
9:HH:45:GLU:HG2	9:HH:46:ARG:HG2	1.78	0.65
9:IJ:86:ARG:HH12	8:JI:284:GLU:HB3	1.62	0.65
9:IJ:186:THR:HA	9:IJ:415:MET:HE3	1.77	0.65
50:L1:64:PRO:O	9:WB:320:ARG:NH2	2.30	0.65
8:OG:277:SER:H	8:OG:280:LYS:NZ	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OL:287:PRO:HA	9:OL:329:GLN:HE22	1.60	0.65
8:PM:51:THR:HG21	8:PM:243:ARG:HG2	1.79	0.65
8:SM:154:MET:N	8:SM:154:MET:SD	2.70	0.65
9:TB:69:GLU:HG2	9:TB:71:GLY:H	1.61	0.65
8:UE:311:LYS:NZ	8:UE:342:GLN:OE1	2.25	0.65
8:VK:220:GLU:HG3	8:VK:221:ARG:HG2	1.77	0.65
9:WB:69:GLU:HG2	9:WB:71:GLY:H	1.62	0.65
8:WK:417:GLU:HA	8:WK:420:GLU:HG2	1.77	0.65
9:AH:237:THR:HG22	9:AH:250:LEU:HD11	1.79	0.65
13:Ad:248:ILE:HG23	13:Ad:264:PHE:HB3	1.78	0.65
9:CH:67:ASP:HB3	9:CH:73:MET:HE2	1.77	0.65
8:DA:329:ASN:HB3	9:DB:175:VAL:HG21	1.78	0.65
9:DH:16:ILE:HD13	9:DH:136:THR:HG21	1.77	0.65
9:FB:96:GLY:O	9:FB:103:LYS:NZ	2.29	0.65
46:H:598:GLU:OE2	46:o:279:ARG:NH1	2.30	0.65
8:KM:168:GLU:HB3	8:KM:201:ALA:HA	1.77	0.65
9:N0:339:SER:HB3	58:q:63:LYS:HE3	1.79	0.65
8:NG:301:GLN:HG2	8:NG:303:VAL:H	1.62	0.65
9:O0:133:PHE:HB2	9:O0:164:MET:HB3	1.78	0.65
9:QJ:73:MET:SD	9:QJ:73:MET:N	2.70	0.65
9:QJ:390:ARG:O	9:QJ:392:LYS:NZ	2.30	0.65
9:QL:247:ASN:ND2	8:QM:73:THR:OG1	2.30	0.65
9:RL:173:PRO:HD2	9:RL:174:LYS:H	1.61	0.65
9:SB:128:ASP:OD2	9:SB:129:CYS:N	2.30	0.65
9:UJ:248:ALA:HA	9:UJ:252:LYS:HD3	1.78	0.65
8:VK:8:HIS:HA	8:VK:138:PHE:HB2	1.78	0.65
8:WC:305:CYS:SG	8:WC:306:ASP:N	2.70	0.65
63:m:105:CYS:SG	63:m:106:ALA:N	2.67	0.65
3:1:133:HIS:HD2	3:1:152:LEU:HD12	1.62	0.65
8:AC:3:GLU:HA	8:AC:51:THR:HA	1.79	0.65
13:Ab:546:ARG:NH1	29:EP:97:ASP:OD2	2.30	0.65
17:B1:47:LEU:HD12	8:JK:76:ASP:HB3	1.79	0.65
28:C8:213:ASP:OD1	28:C8:214:GLU:N	2.30	0.65
9:CH:49:VAL:HG11	9:CH:241:ARG:HG2	1.78	0.65
2:Ca:128:CYS:HA	8:PE:85:GLN:HG2	1.79	0.65
29:DW:469:LYS:O	29:DW:473:MET:HB2	1.97	0.65
9:EL:46:ARG:NH2	8:EM:76:ASP:OD2	2.30	0.65
9:GD:248:ALA:HA	9:GD:252:LYS:NZ	2.12	0.65
9:ID:189:VAL:HA	9:ID:192:LEU:HB2	1.79	0.65
9:JL:256:ASN:HD22	9:JL:350:LYS:HD3	1.61	0.65
8:MM:311:LYS:H	8:MM:382:THR:HG1	1.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SB:15:GLN:O	9:SB:226:ASN:ND2	2.29	0.65
9:SF:26:ASP:O	9:SF:359:ARG:NH1	2.30	0.65
8:TC:88:HIS:HE1	8:TC:90:GLU:HB2	1.62	0.65
8:TI:12:ALA:HA	67:TI:501:GTP:C2	2.32	0.65
7:A7:52:SER:HB2	9:SJ:337:ASN:HD21	1.61	0.64
8:BA:175:PRO:HG3	8:BA:390:ARG:HD3	1.79	0.64
14:Ba:85:TYR:HA	14:Ba:90:THR:HG21	1.78	0.64
2:Ch:126:LEU:O	8:PC:85:GLN:NE2	2.30	0.64
29:D9:242:GLN:NE2	29:D9:316:ASN:OD1	2.26	0.64
8:DI:103:TYR:HD1	8:DI:189:LEU:HG	1.60	0.64
44:EW:179:GLU:HG2	44:EW:296:GLN:HG3	1.78	0.64
9:GF:318:ARG:HB3	9:GF:357:PRO:HA	1.79	0.64
8:IG:238:ILE:HG23	8:IG:255:PHE:HE2	1.62	0.64
8:JE:180:ALA:HB3	8:JE:183:GLU:HG3	1.78	0.64
9:OB:319:GLY:HA2	9:OB:357:PRO:HD3	1.77	0.64
9:OD:403:MET:N	9:OD:403:MET:SD	2.69	0.64
8:PI:90:GLU:HG2	8:QI:280:LYS:HZ2	1.62	0.64
9:QL:207:LEU:HB3	9:QL:225:LEU:HD22	1.79	0.64
8:RI:72:PRO:O	8:RI:76:ASP:HB2	1.96	0.64
8:RM:297:GLU:HG3	8:RM:299:ALA:H	1.62	0.64
8:SM:276:ILE:HG23	8:SM:280:LYS:HB3	1.79	0.64
9:TH:358:PRO:HD2	9:TH:361:LEU:HD11	1.79	0.64
8:VK:68:VAL:HG12	8:VK:93:ILE:HB	1.80	0.64
9:WD:189:VAL:HG11	9:WD:415:MET:HE2	1.78	0.64
9:WN:354:CYS:SG	9:WN:355:ASP:N	2.70	0.64
7:A5:138:GLY:O	8:QA:123:ARG:NH1	2.30	0.64
12:AW:93:LYS:HZ2	12:AW:164:LEU:HD21	1.60	0.64
14:B7:17:ILE:HD13	8:DK:79:ARG:HB2	1.78	0.64
9:BJ:354:CYS:SG	9:BJ:355:ASP:N	2.70	0.64
9:BL:173:PRO:HB2	9:BL:174:LYS:HE2	1.79	0.64
20:BT:86:VAL:O	20:BT:89:GLN:NE2	2.30	0.64
29:C1:177:LYS:HE3	29:C1:240:ASP:HB3	1.78	0.64
8:CE:26:LEU:HD11	8:CE:364:PRO:HD3	1.79	0.64
8:CK:88:HIS:HB3	8:CK:91:GLN:HB2	1.79	0.64
2:CT:61:SER:HA	2:CT:64:ARG:HG2	1.79	0.64
2:Ce:104:LEU:HD11	2:Ce:114:LEU:HD21	1.79	0.64
33:Cs:84:ASP:HB3	33:Cs:233:MET:HE2	1.80	0.64
8:EI:292:THR:HG21	8:EI:331:ALA:HB1	1.78	0.64
44:ES:166:ASP:HA	44:ET:56:TRP:HE1	1.62	0.64
44:EX:411:SER:HA	28:F2:478:ARG:HH12	1.61	0.64
44:EZ:179:GLU:HB2	44:EZ:296:GLN:HG3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:F:675:LYS:HG2	9:IN:56:GLY:HA3	1.80	0.64
28:F6:284:PHE:HB3	28:F6:287:VAL:HG21	1.80	0.64
9:FF:180:VAL:HG13	9:FF:184:ASN:HD21	1.62	0.64
8:KM:117:LEU:HD21	65:s:91:SER:HA	1.79	0.64
8:OK:97:GLU:OE1	8:OK:98:ASP:N	2.28	0.64
8:PM:15:GLN:O	8:PM:228:ASN:ND2	2.29	0.64
8:RE:54:SER:HB3	8:RE:62:VAL:HB	1.79	0.64
8:TE:381:THR:O	8:TE:432:TYR:OH	2.15	0.64
9:UH:313:VAL:HG13	9:UH:367:PHE:HE1	1.61	0.64
8:VE:392:ASP:HB3	8:VE:422:ARG:HH22	1.62	0.64
60:f:129:LEU:HB3	60:f:143:TRP:HB2	1.78	0.64
6:A0:49:ARG:HH12	6:A0:51:SER:HA	1.61	0.64
13:Ad:580:LEU:HB2	13:Ad:584:GLU:HB2	1.79	0.64
18:B5:16:LEU:HG	60:f:370:LEU:HD22	1.78	0.64
9:DF:204:ASN:OD1	69:DF:501:GDP:N2	2.31	0.64
8:FG:392:ASP:OD1	8:FG:422:ARG:NH1	2.30	0.64
9:FH:412:GLU:OE1	9:FH:416:ASN:ND2	2.30	0.64
9:GL:372:THR:HA	9:GL:422:TYR:HE2	1.62	0.64
9:IL:86:ARG:NH1	8:JK:284:GLU:OE1	2.29	0.64
8:NK:199:ASP:OD2	8:NK:256:GLN:NE2	2.30	0.64
9:PL:7:LEU:HD23	9:PL:133:PHE:HB3	1.78	0.64
9:QH:68:LEU:HD23	9:QH:112:LEU:HD13	1.79	0.64
9:SD:332:ASN:HA	9:SD:335:ASN:HB2	1.78	0.64
8:TE:188:ILE:HG13	8:TE:395:LEU:HD22	1.78	0.64
8:TG:348:PRO:HD2	9:TH:388:MET:HE3	1.79	0.64
9:WJ:207:LEU:HB3	9:WJ:225:LEU:HD22	1.79	0.64
56:XI:74:PRO:HD2	56:XI:169:ASP:HA	1.77	0.64
2:0g:126:LEU:O	8:PA:85:GLN:NE2	2.29	0.64
8:AK:263:PRO:HD2	56:XH:116:PRO:HG3	1.79	0.64
13:Aa:324:LEU:HD12	13:Aa:339:LEU:HD11	1.80	0.64
9:BD:354:CYS:SG	9:BD:355:ASP:N	2.71	0.64
19:BO:231:ARG:HH12	54:T:229:PRO:HD2	1.63	0.64
14:Bb:312:GLU:OE2	14:Bb:316:ARG:NH2	2.31	0.64
25:Bo:180:UNK:HA	8:PI:82:THR:HG21	1.79	0.64
29:D9:255:ARG:HH12	29:EQ:203:LYS:HA	1.60	0.64
8:DC:53:PHE:HB3	8:DC:61:HIS:HB3	1.78	0.64
8:DE:70:LEU:HB3	8:DE:98:ASP:HA	1.78	0.64
8:DK:53:PHE:HB3	8:DK:61:HIS:HB3	1.78	0.64
8:DM:52:PHE:HE1	8:DM:243:ARG:HD3	1.61	0.64
36:Dc:162:LYS:HD3	36:Dc:163:PRO:HD2	1.80	0.64
9:EL:248:ALA:HA	9:EL:252:LYS:HG2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HE:211:ASP:HB2	8:HE:215:ARG:HH12	1.62	0.64
8:IE:124:LYS:O	8:IE:124:LYS:NZ	2.31	0.64
8:IK:71:GLU:HG2	8:IK:98:ASP:HB3	1.79	0.64
9:JH:311:LEU:O	9:JH:348:ASN:ND2	2.31	0.64
9:JL:392:LYS:HE3	9:JL:395:LEU:HD23	1.80	0.64
9:PD:49:VAL:HG11	9:PD:241:ARG:HB3	1.78	0.64
8:PG:216:ASN:ND2	8:PG:275:VAL:O	2.30	0.64
9:PJ:2:ARG:HB3	9:PJ:131:GLN:HB2	1.79	0.64
8:QG:381:THR:HG22	8:QG:383:ALA:H	1.63	0.64
9:QH:230:SER:HA	9:QH:233:MET:HB3	1.78	0.64
9:RB:68:LEU:HG	9:RB:147:MET:HE1	1.79	0.64
9:SB:309:ARG:H	9:SB:372:THR:HG1	1.45	0.64
8:SM:307:PRO:HB3	8:SM:381:THR:HG21	1.80	0.64
9:TH:109:GLY:HA2	9:TH:147:MET:HE1	1.79	0.64
9:UN:156:ARG:NH2	9:UN:162:ARG:O	2.30	0.64
16:At:226:HIS:HA	8:FK:308:ARG:HH12	1.63	0.64
23:Bg:37:ARG:NH1	8:GM:36:MET:SD	2.71	0.64
21:Bj:109:GLU:OE2	8:KG:226:ASN:ND2	2.31	0.64
27:Bs:321:ARG:HG3	27:Bs:322:GLN:NE2	2.11	0.64
27:Bs:481:GLU:OE2	29:D5:312:ASN:ND2	2.30	0.64
8:CG:267:PHE:HB3	8:CG:384:ILE:HD13	1.79	0.64
9:EH:105:HIS:HB3	9:EH:106:TYR:CD1	2.32	0.64
9:EH:237:THR:HG22	9:EH:241:ARG:HE	1.61	0.64
9:GF:211:CYS:HA	9:GF:215:LEU:HB2	1.78	0.64
9:IB:307:HIS:O	9:IB:426:GLN:NE2	2.30	0.64
9:IL:113:VAL:HG11	9:IL:150:LEU:HD23	1.79	0.64
9:IN:207:LEU:HB3	9:IN:225:LEU:HD11	1.80	0.64
8:JE:64:ARG:NH2	8:JE:129:CYS:SG	2.70	0.64
9:JH:67:ASP:OD1	9:JH:69:GLU:N	2.28	0.64
8:PI:320:ARG:HB3	8:PI:374:ALA:HB3	1.79	0.64
9:QH:15:GLN:OE1	9:QH:226:ASN:ND2	2.31	0.64
8:SC:64:ARG:NH1	8:SC:129:CYS:SG	2.71	0.64
8:SK:381:THR:HG22	8:SK:383:ALA:H	1.62	0.64
9:SL:235:GLY:HA3	9:SL:366:THR:HG21	1.80	0.64
9:UN:209:ASP:HB3	9:UN:213:ARG:HH22	1.63	0.64
8:VC:269:LEU:HD21	8:VC:384:ILE:HD11	1.79	0.64
8:VI:9:VAL:HG12	8:VI:68:VAL:HB	1.79	0.64
56:XH:72:LYS:HE2	57:YG:78:ARG:HG3	1.78	0.64
9:AF:323:MET:O	9:AF:327:ASP:HB2	1.98	0.64
9:BJ:73:MET:HA	9:BJ:76:VAL:HG12	1.78	0.64
29:D2:172:SER:HB3	29:D2:321:ARG:HH22	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DR:364:LEU:HD13	29:DR:454:LEU:HB3	1.79	0.64
9:EB:121:ARG:O	9:EB:125:GLU:HB2	1.97	0.64
9:FF:252:LYS:NZ	8:FG:101:ASN:OD1	2.31	0.64
9:IB:46:ARG:HH12	8:IC:73:THR:HG22	1.63	0.64
9:IH:245:GLN:NE2	9:IH:323:MET:SD	2.68	0.64
9:JD:207:LEU:HB3	9:JD:225:LEU:HD22	1.79	0.64
9:JN:306:ARG:HA	9:JN:340:TYR:HE1	1.60	0.64
9:LN:213:ARG:HH21	9:LN:297:LYS:HD2	1.61	0.64
9:MJ:73:MET:HE1	9:MJ:92:PHE:HD2	1.63	0.64
8:PC:381:THR:HG22	8:PC:383:ALA:H	1.63	0.64
9:PL:2:ARG:HE	9:PL:240:LEU:HD13	1.63	0.64
9:QH:271:ALA:HB2	9:QH:293:MET:HE3	1.80	0.64
8:QK:254:GLU:OE2	8:QK:258:ASN:ND2	2.30	0.64
8:RI:53:PHE:HB3	8:RI:61:HIS:HB3	1.80	0.64
9:SB:216:LYS:HA	9:SB:216:LYS:HE3	1.80	0.64
9:SF:325:GLU:HA	9:SF:328:GLU:HG3	1.79	0.64
8:VG:183:GLU:HG2	8:VG:184:PRO:HD3	1.79	0.64
9:VJ:2:ARG:HD2	9:VJ:240:LEU:HD11	1.79	0.64
9:WD:265:PHE:HB3	9:WD:374:ILE:HD13	1.79	0.64
2:0c:126:LEU:HD21	2:0c:139:VAL:HG21	1.79	0.64
2:0k:124:ASN:OD1	8:RA:85:GLN:NE2	2.30	0.64
11:AT:59:ARG:HD2	9:JH:94:GLN:HE22	1.62	0.64
9:BD:273:LEU:O	9:BD:292:GLN:NE2	2.30	0.64
28:C9:125:SER:OG	29:DP:165:ARG:NH2	2.31	0.64
29:D1:211:HIS:HB2	29:D2:92:ARG:HG3	1.79	0.64
9:DH:193:VAL:HG11	9:DH:418:LEU:HD11	1.79	0.64
8:FE:311:LYS:H	8:FE:382:THR:HB	1.63	0.64
9:FF:293:MET:HG3	9:FF:367:PHE:HB2	1.79	0.64
8:GK:251:ASP:H	8:GK:254:GLU:HG2	1.63	0.64
9:NH:163:ILE:HG23	9:NH:251:ARG:HH11	1.62	0.64
9:PB:309:ARG:H	9:PB:426:GLN:HE22	1.43	0.64
8:PC:258:ASN:HD21	9:PD:178:THR:HG23	1.61	0.64
9:PH:117:LEU:HD22	9:PH:154:LYS:HZ3	1.63	0.64
8:PM:36:MET:HE3	8:PM:37:PRO:HD2	1.80	0.64
9:QL:268:PRO:HB2	9:QL:300:MET:HG3	1.79	0.64
8:RA:258:ASN:HD22	9:RB:179:VAL:HB	1.63	0.64
8:RM:414:GLU:HG2	8:RM:416:GLY:H	1.63	0.64
8:TE:26:LEU:HD21	46:o:449:LEU:HD22	1.79	0.64
9:TF:49:VAL:HG11	9:TF:241:ARG:HG2	1.80	0.64
60:e:357:LYS:NZ	60:e:376:PRO:O	2.31	0.64
8:AG:372:GLN:NE2	20:BT:48:HIS:O	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BI:10:GLY:HA2	8:BI:145:THR:HG23	1.80	0.64
30:CW:336:GLN:NE2	8:JG:77:GLU:O	2.31	0.64
32:Co:80:LYS:NZ	32:Co:229:ASP:OD1	2.23	0.64
29:Cz:174:ASP:HA	29:Cz:243:MET:HE1	1.80	0.64
29:D3:156:LYS:HZ1	29:D3:260:LYS:HB3	1.63	0.64
9:EF:324:LYS:HG2	8:EG:222:PRO:HD2	1.80	0.64
9:EJ:183:TYR:CE1	9:EJ:395:LEU:HD11	2.31	0.64
8:FG:288:VAL:O	8:FG:292:THR:OG1	2.14	0.64
9:GB:248:ALA:HA	9:GB:252:LYS:HD3	1.78	0.64
9:GD:102:ALA:HB1	9:GD:401:GLU:HG2	1.80	0.64
9:JH:267:MET:HE1	9:JH:305:PRO:HG3	1.80	0.64
8:JI:3:GLU:HG3	8:JI:129:CYS:HB2	1.80	0.64
8:NK:336:LYS:HD3	8:NK:351:PHE:HE1	1.62	0.64
8:OG:277:SER:H	8:OG:280:LYS:HZ1	1.46	0.64
8:PG:56:THR:OG1	8:PG:57:GLY:N	2.31	0.64
8:RI:248:LEU:HB2	8:RI:355:ILE:HD12	1.80	0.64
8:SE:362:VAL:O	8:SE:370:LYS:NZ	2.30	0.64
9:UN:67:ASP:OD1	9:UN:68:LEU:N	2.31	0.64
9:VN:276:ARG:O	9:VN:279:GLN:NE2	2.31	0.64
8:WM:72:PRO:O	8:WM:76:ASP:HB2	1.98	0.64
56:XI:125:LEU:HD13	56:XI:130:ASN:HD21	1.61	0.64
60:g:383:ILE:HD11	60:g:392:ILE:HD11	1.79	0.64
10:AP:9:GLN:HE21	9:KH:304:ASP:HB3	1.63	0.64
9:BF:22:GLU:HG2	9:BF:81:PHE:HD2	1.63	0.64
9:BF:334:GLN:OE1	9:BF:348:ASN:ND2	2.31	0.64
26:Bq:107:PRO:HG3	9:LN:74:ASP:HB2	1.80	0.64
2:Cj:62:THR:HA	2:Cj:65:ARG:HH12	1.62	0.64
9:DJ:260:PHE:HB2	9:DJ:263:LEU:HD23	1.80	0.64
9:GN:130:LEU:O	9:GN:162:ARG:NH1	2.30	0.64
9:HL:248:ALA:HA	9:HL:252:LYS:HE3	1.80	0.64
9:IJ:111:GLU:H	3:x:68:ARG:NH2	1.96	0.64
8:IM:160:ASP:O	51:O:96:ARG:NH1	2.30	0.64
67:OH:502:GTP:N2	8:OI:206:ASN:OD1	2.31	0.64
9:PH:86:ARG:HD3	9:QH:282:ARG:HH22	1.62	0.64
8:QI:53:PHE:HB3	8:QI:61:HIS:HB3	1.78	0.64
9:QJ:178:THR:HB	9:QJ:181:GLU:HG3	1.79	0.64
9:RH:131:GLN:HE22	9:RH:250:LEU:HB2	1.62	0.64
8:RI:298:PRO:HA	8:RI:301:GLN:HE22	1.63	0.64
9:RL:247:ASN:ND2	8:RM:71:GLU:OE2	2.31	0.64
9:RL:289:LEU:HD21	9:RL:365:ALA:HB2	1.80	0.64
8:SG:49:PHE:HZ	8:SG:55:GLU:HB2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WC:102:ASN:HD21	8:WC:104:ALA:HB3	1.63	0.64
8:WK:53:PHE:HB3	8:WK:61:HIS:HB3	1.80	0.64
16:At:278:HIS:H	9:FH:297:LYS:NZ	1.94	0.64
23:Bg:115:ILE:HG23	23:Bg:120:ARG:HA	1.79	0.64
28:C8:441:ALA:HA	28:DO:120:LEU:HD21	1.79	0.64
29:D1:402:ARG:HH12	29:D1:415:PRO:HB2	1.62	0.64
41:Dn:187:ARG:NH1	41:Dn:188:ALA:O	2.31	0.64
42:E:733:ARG:HE	9:IB:39:ASP:HB2	1.62	0.64
44:EX:360:ARG:HH21	44:EX:374:GLN:HG2	1.63	0.64
9:GH:268:PRO:HG2	9:GH:300:MET:HB2	1.80	0.64
9:GJ:156:ARG:HD3	9:GJ:164:MET:HE1	1.80	0.64
8:II:381:THR:HG22	8:II:383:ALA:H	1.63	0.64
9:KH:221:THR:HG22	9:KH:223:GLY:H	1.63	0.64
8:KI:336:LYS:O	8:KI:339:ARG:NH2	2.32	0.64
50:L1:130:LYS:NZ	60:e:162:GLY:O	2.31	0.64
8:PI:93:ILE:HG13	8:PI:118:VAL:HG12	1.79	0.64
9:QB:33:THR:O	9:QB:58:LYS:NZ	2.31	0.64
8:QG:316:CYS:HA	8:QG:352:LYS:HB3	1.80	0.64
8:RI:377:MET:HE2	8:RI:379:SER:HB3	1.80	0.64
8:RK:26:LEU:HD13	8:RK:363:VAL:HG22	1.79	0.64
8:SC:242:LEU:HD13	8:SC:252:LEU:HD23	1.79	0.64
8:UC:236:SER:O	8:UC:243:ARG:NH2	2.30	0.64
9:UN:354:CYS:SG	9:UN:355:ASP:N	2.71	0.64
2:0c:104:LEU:HA	2:0c:109:ASN:HD22	1.63	0.63
9:AJ:356:ILE:HD12	20:BT:175:MET:HB3	1.78	0.63
14:Al:18:PRO:HG3	8:EE:279:GLU:HG3	1.78	0.63
20:BT:153:LEU:HD12	20:BT:156:GLN:HE22	1.63	0.63
22:BW:62:ARG:HH12	8:JC:37:PRO:HG2	1.62	0.63
14:Ba:92:LEU:HD23	28:C4:96:PRO:HG3	1.80	0.63
27:Bs:351:LEU:HD11	8:HG:372:GLN:HE21	1.64	0.63
27:Bs:450:LEU:HD13	27:Bs:477:MET:HE2	1.79	0.63
27:Bs:464:LEU:HD13	27:Bs:469:PHE:HE1	1.63	0.63
2:Cb:80:LEU:HD12	2:Cb:149:MET:HE1	1.80	0.63
29:Cz:388:LYS:NZ	44:EZ:54:ASP:OD2	2.31	0.63
29:D3:280:ILE:HG22	29:D4:397:THR:HG21	1.78	0.63
9:DJ:83:GLN:O	9:EJ:281:TYR:OH	2.15	0.63
9:DN:387:ALA:HA	9:DN:390:ARG:HE	1.63	0.63
9:EF:235:GLY:HA3	9:EF:366:THR:HG21	1.80	0.63
8:FK:155:GLU:OE1	8:FK:197:HIS:NE2	2.31	0.63
9:HJ:354:CYS:SG	9:HJ:355:ASP:N	2.71	0.63
9:IN:376:GLU:HA	9:IN:379:LYS:NZ	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:L1:45:TYR:HE2	59:a:225:ARG:HH12	1.45	0.63
8:OA:371:VAL:HG12	8:OA:373:ARG:H	1.62	0.63
9:QH:299:MET:SD	9:QH:299:MET:N	2.66	0.63
9:QL:207:LEU:HD23	9:QL:225:LEU:HB3	1.80	0.63
8:TE:298:PRO:HA	8:TE:301:GLN:HE22	1.63	0.63
9:VB:170:VAL:HG21	9:VB:377:LEU:HD21	1.80	0.63
9:VD:73:MET:HE1	9:VD:92:PHE:HB3	1.79	0.63
2:0i:34:ARG:HD3	2:0i:40:LYS:HA	1.80	0.63
13:Ab:211:TYR:HA	13:Ab:214:LYS:HD3	1.80	0.63
8:BM:211:ASP:O	8:BM:214:ARG:NH2	2.31	0.63
8:CE:254:GLU:HG3	9:CF:98:GLY:HA2	1.80	0.63
9:CH:11:GLN:HA	9:CH:72:THR:HG21	1.80	0.63
9:CL:317:PHE:HB3	9:CL:321:MET:HE3	1.80	0.63
2:Cb:45:SER:HB2	2:Cb:111:LEU:H	1.64	0.63
2:Cf:39:ASP:OD2	2:Cf:42:ARG:NH2	2.28	0.63
9:DB:226:ASN:ND2	69:DB:501:GDP:O6	2.30	0.63
8:EM:317:MET:HB2	8:EM:353:VAL:HA	1.81	0.63
9:EN:290:THR:HA	9:EN:293:MET:HB2	1.79	0.63
44:EW:231:TYR:HA	44:EW:236:THR:HG21	1.80	0.63
9:HH:229:VAL:O	9:HH:233:MET:HB2	1.99	0.63
9:HL:207:LEU:HB3	9:HL:225:LEU:HD22	1.80	0.63
8:IK:1:MET:SD	8:IK:130:THR:OG1	2.56	0.63
9:IL:115:SER:OG	51:O:139:ARG:NH1	2.31	0.63
8:IM:155:GLU:HA	8:IM:197:HIS:HD2	1.64	0.63
9:LF:293:MET:HG2	9:LF:367:PHE:HB2	1.80	0.63
9:ML:248:ALA:HA	9:ML:252:LYS:HD2	1.80	0.63
8:OA:265:ILE:HG22	8:OA:380:ASN:HD21	1.64	0.63
8:PI:168:GLU:HB2	8:PI:201:ALA:HA	1.78	0.63
8:PM:127:ASP:OD2	8:QM:293:ASN:ND2	2.30	0.63
8:RK:134:GLY:HA2	8:RK:164:LYS:HG3	1.80	0.63
8:RM:195:LEU:HD11	8:RM:428:LEU:HD11	1.78	0.63
8:VG:297:GLU:HB3	8:VG:300:ASN:HB2	1.80	0.63
8:WM:292:THR:HG23	8:WM:317:MET:HE1	1.79	0.63
2:0A:146:LEU:HB3	2:0A:150:LYS:NZ	2.12	0.63
2:0e:65:ARG:NH2	9:O0:38:GLY:O	2.30	0.63
8:AA:102:ASN:HB3	8:AA:105:ARG:HB2	1.81	0.63
13:Ab:291:ASN:HA	9:CJ:216:LYS:NZ	2.12	0.63
19:BQ:257:GLU:OE1	19:BQ:258:GLN:NE2	2.32	0.63
9:CH:256:ASN:ND2	8:CI:101:ASN:OD1	2.30	0.63
2:Cf:34:ARG:HE	2:Cf:135:TYR:HE2	1.46	0.63
8:DI:16:ILE:HD11	8:DI:171:ILE:HD11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EG:3:GLU:HA	8:EG:51:THR:HA	1.80	0.63
8:EK:56:THR:HA	8:FK:285:GLN:HB2	1.79	0.63
8:EK:88:HIS:HB2	8:EK:91:GLN:H	1.60	0.63
8:FC:392:ASP:HA	8:FC:422:ARG:HH12	1.63	0.63
9:FD:170:VAL:HG11	9:FD:377:LEU:HD11	1.79	0.63
9:HF:354:CYS:SG	9:HF:355:ASP:N	2.70	0.63
9:KH:354:CYS:SG	9:KH:355:ASP:N	2.71	0.63
9:MD:276:ARG:NH2	62:i:173:SER:O	2.31	0.63
8:NC:317:MET:HE1	8:NC:332:ILE:HD11	1.80	0.63
9:O0:276:ARG:NH2	54:U:178:THR:OG1	2.30	0.63
8:OA:267:PHE:HB3	8:OA:384:ILE:HD12	1.80	0.63
9:OL:334:GLN:HE21	9:OL:349:VAL:HG12	1.61	0.63
8:QK:319:TYR:HB2	8:QK:355:ILE:HG22	1.80	0.63
8:RI:88:HIS:CD2	8:RI:121:ARG:HH22	2.17	0.63
1:V:185:CYS:SG	1:V:186:ARG:N	2.71	0.63
9:VF:4:ILE:HD12	9:VF:250:LEU:HD11	1.80	0.63
9:VJ:237:THR:HG22	9:VJ:250:LEU:HD21	1.81	0.63
7:A8:186:ARG:HH21	8:SI:118:VAL:H	1.45	0.63
13:Ac:471:ARG:HE	13:Ac:487:TYR:HB3	1.64	0.63
8:BC:254:GLU:HA	8:BC:257:THR:HG22	1.80	0.63
8:BK:66:VAL:HG23	8:BK:91:GLN:HB3	1.79	0.63
9:CD:204:ASN:OD1	69:CD:501:GDP:N2	2.30	0.63
9:CJ:45:GLU:HG2	9:CJ:46:ARG:HG2	1.80	0.63
8:CM:165:SER:OG	8:CM:256:GLN:NE2	2.32	0.63
32:Cm:43:ARG:HG3	33:Cq:43:ARG:HD2	1.81	0.63
8:DM:286:LEU:O	8:DM:373:ARG:NH1	2.31	0.63
37:De:238:ARG:NE	8:TM:2:ARG:HH12	1.96	0.63
29:EP:478:THR:OG1	44:EW:108:GLN:NE2	2.31	0.63
8:FE:70:LEU:HD22	8:FE:110:ILE:HG13	1.78	0.63
9:HF:167:PHE:HE2	9:HF:200:TYR:HD1	1.47	0.63
8:HM:386:GLU:OE2	8:HM:390:ARG:NH2	2.32	0.63
9:JH:190:HIS:NE2	9:JH:410:GLU:OE2	2.30	0.63
9:NJ:15:GLN:NE2	69:NJ:501:GDP:O6	2.30	0.63
52:P:17:VAL:HG22	8:UE:334:THR:HG21	1.80	0.63
8:PI:206:ASN:OD1	67:PI:501:GTP:N2	2.32	0.63
8:QK:297:GLU:HG3	8:QK:299:ALA:H	1.63	0.63
8:QK:362:VAL:HG11	8:QK:370:LYS:HA	1.81	0.63
9:RH:345:ILE:O	9:RH:348:ASN:ND2	2.31	0.63
9:RL:372:THR:HA	9:RL:422:TYR:HE2	1.61	0.63
8:TK:372:GLN:HG3	8:TK:373:ARG:HD2	1.79	0.63
8:VE:356:ASN:OD1	8:VE:357:TYR:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VN:83:GLN:O	9:WN:281:TYR:OH	2.15	0.63
8:WE:278:ALA:HB3	60:e:461:LYS:HZ3	1.63	0.63
9:WF:190:HIS:HA	9:WF:415:MET:HE3	1.81	0.63
56:XK:57:THR:HG23	56:XK:158:ALA:HB2	1.80	0.63
56:XM:62:PRO:HG3	56:XM:69:LEU:HB2	1.79	0.63
57:YI:254:CYS:SG	57:YI:255:LEU:N	2.71	0.63
2:0g:123:VAL:O	8:PA:85:GLN:NE2	2.30	0.63
8:AK:180:ALA:HB3	8:AK:183:GLU:HG3	1.80	0.63
17:B1:12:ILE:O	9:NH:320:ARG:NH2	2.31	0.63
19:BR:94:THR:HG1	19:BR:96:TRP:CD1	2.15	0.63
25:Bp:207:UNK:O	9:OJ:320:ARG:NH1	2.31	0.63
26:Bu:297:ARG:NH1	44:ES:108:GLN:OE1	2.31	0.63
28:C7:189:GLU:OE2	28:C8:73:GLN:NE2	2.29	0.63
8:CM:2:ARG:NH1	8:CM:242:LEU:O	2.31	0.63
8:DA:294:ALA:HB1	8:DA:300:ASN:HD22	1.63	0.63
8:DI:76:ASP:N	8:DI:76:ASP:OD1	2.30	0.63
29:DU:201:ARG:HH12	29:DU:214:VAL:HB	1.63	0.63
42:F:362:ALA:O	42:F:366:THR:OG1	2.17	0.63
9:FB:248:ALA:HA	9:FB:252:LYS:HE3	1.81	0.63
9:HB:135:LEU:HD22	9:HB:152:ILE:HD11	1.81	0.63
9:HD:10:GLY:HA2	9:HD:143:THR:HG23	1.78	0.63
9:HL:380:ARG:HA	9:HL:383:GLU:HG3	1.79	0.63
9:N0:286:VAL:HA	9:N0:289:LEU:HB2	1.78	0.63
8:QK:316:CYS:HB3	8:QK:378:LEU:HB2	1.80	0.63
8:SC:291:ILE:HD12	8:SC:375:VAL:HG23	1.79	0.63
8:TG:102:ASN:HB2	8:TG:105:ARG:HB3	1.80	0.63
8:UE:133:GLN:HG3	8:UE:252:LEU:HB2	1.80	0.63
8:WC:167:LEU:HD22	8:WC:200:CYS:HB2	1.80	0.63
56:XI:106:SER:HB2	56:XI:109:GLN:HG3	1.79	0.63
59:a:172:GLN:N	59:a:172:GLN:OE1	2.32	0.63
2:0Y:15:LYS:HB3	2:0Y:73:ILE:HD12	1.80	0.63
7:A1:19:ILE:HG22	7:A1:21:ALA:H	1.64	0.63
8:AC:263:PRO:HD2	56:XL:116:PRO:HG3	1.81	0.63
9:AH:252:LYS:O	9:AH:256:ASN:ND2	2.28	0.63
11:AU:430:ASN:HA	9:GJ:276:ARG:HH12	1.64	0.63
13:Aa:156:CYS:SG	13:Aa:161:LYS:NZ	2.70	0.63
7:Ay:89:ILE:HG22	9:GH:294:PHE:HB3	1.79	0.63
9:BJ:45:GLU:HG3	9:BJ:46:ARG:HG2	1.81	0.63
20:BS:319:SER:N	47:X:128:ASP:OD1	2.32	0.63
29:C1:402:ARG:HH22	29:C1:415:PRO:HG2	1.63	0.63
2:Cb:120:HIS:HD2	2:Cb:143:PRO:HB3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DI:276:ILE:HD11	8:DI:286:LEU:HD11	1.81	0.63
9:ED:31:ASP:OD1	9:ED:34:GLY:N	2.30	0.63
8:EM:105:ARG:HH11	8:EM:110:ILE:HD11	1.64	0.63
8:EM:226:ASN:ND2	8:EM:367:ASP:OD2	2.32	0.63
29:EO:274:ARG:HE	44:EY:316:HIS:HD2	1.46	0.63
9:FH:33:THR:O	9:FH:58:LYS:NZ	2.32	0.63
8:FM:324:VAL:HG21	9:FN:219:THR:HB	1.81	0.63
9:HB:53:GLU:OE2	9:HB:54:ALA:N	2.32	0.63
8:HE:195:LEU:HD11	8:HE:428:LEU:HD22	1.81	0.63
9:JL:139:LEU:HD12	9:JL:170:VAL:HG12	1.79	0.63
8:KM:104:ALA:HB2	8:KM:413:MET:HE3	1.81	0.63
9:MF:257:MET:HE1	9:MF:314:ALA:HB2	1.79	0.63
9:MJ:8:GLN:HE22	9:MJ:17:GLY:HA3	1.63	0.63
9:ML:45:GLU:HG3	9:ML:46:ARG:HG2	1.79	0.63
8:NA:172:TYR:HB2	8:NA:203:MET:HE2	1.80	0.63
9:NB:171:PRO:O	9:NB:380:ARG:NH2	2.31	0.63
9:PL:152:ILE:O	9:PL:195:ASN:ND2	2.31	0.63
9:QD:134:GLN:NE2	9:QD:233:MET:SD	2.72	0.63
8:QI:16:ILE:HD11	8:QI:138:PHE:HB3	1.81	0.63
8:RA:30:ILE:HG12	8:RA:36:MET:HE1	1.80	0.63
8:UE:311:LYS:HE2	8:UE:311:LYS:HA	1.80	0.63
8:VI:153:LEU:O	8:VI:157:LEU:HB2	1.98	0.63
8:VI:206:ASN:OD1	67:VI:502:GTP:N2	2.31	0.63
8:VM:244:PHE:HB2	8:VM:356:ASN:HD21	1.64	0.63
9:WJ:1:MET:SD	8:WK:96:LYS:NZ	2.71	0.63
60:e:188:TRP:HE3	60:e:197:ILE:HG12	1.64	0.63
60:g:490:ILE:HD11	60:g:500:GLN:HB2	1.81	0.63
3:2:159:ARG:HH22	3:2:190:PRO:HG2	1.63	0.63
8:AA:317:MET:HG2	8:AA:377:MET:HG2	1.81	0.63
18:B6:188:MET:HG2	18:B6:256:ALA:HA	1.80	0.63
9:BH:38:GLY:O	14:BY:316:ARG:NH2	2.30	0.63
9:BJ:248:ALA:HA	9:BJ:252:LYS:HD3	1.81	0.63
21:Bj:155:GLN:OE1	8:KE:372:GLN:NE2	2.30	0.63
8:CE:64:ARG:NH1	8:CE:129:CYS:SG	2.72	0.63
8:CM:259:LEU:HD11	8:CM:316:CYS:HB2	1.80	0.63
8:DC:3:GLU:HB3	8:DC:132:LEU:HA	1.80	0.63
8:DI:322:ASP:OD2	8:DI:373:ARG:NH1	2.31	0.63
8:EM:109:THR:O	8:EM:112:LYS:NZ	2.32	0.63
8:HG:274:PRO:HG2	8:HG:374:ALA:HA	1.79	0.63
8:II:292:THR:HG21	8:II:331:ALA:HB1	1.81	0.63
9:IN:270:PHE:O	9:IN:298:ASN:ND2	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KI:215:ARG:NH2	8:KI:299:ALA:O	2.32	0.63
9:LD:314:ALA:HB3	9:LD:368:ILE:HB	1.79	0.63
9:LD:354:CYS:SG	9:LD:355:ASP:N	2.70	0.63
8:PG:75:VAL:HG13	8:PG:92:LEU:HD12	1.79	0.63
8:PK:206:ASN:OD1	67:PK:501:GTP:N2	2.29	0.63
9:QD:318:ARG:HA	9:QD:354:CYS:HB2	1.80	0.63
8:QK:238:ILE:HD11	8:QK:378:LEU:HD11	1.81	0.63
8:RC:212:ILE:HD11	8:RC:300:ASN:HA	1.79	0.63
8:TG:64:ARG:NH1	8:TG:129:CYS:SG	2.72	0.63
9:UD:86:ARG:NH2	9:UD:123:GLU:OE2	2.32	0.63
8:WK:267:PHE:HB3	8:WK:384:ILE:HD13	1.80	0.63
8:AA:328:VAL:HG11	8:AA:353:VAL:HG21	1.81	0.63
29:C1:409:GLU:OE1	29:DP:299:TRP:NE1	2.32	0.63
32:Cm:310:ALA:HB2	32:Cm:344:ILE:HG21	1.79	0.63
8:DC:295:CYS:HB3	8:DC:377:MET:HE2	1.80	0.63
9:ED:289:LEU:O	9:ED:293:MET:HB2	1.99	0.63
44:EX:360:ARG:NH2	44:EX:371:ASP:OD1	2.32	0.63
8:FC:87:PHE:HB3	8:FC:91:GLN:HE22	1.64	0.63
8:FK:381:THR:HG22	8:FK:383:ALA:H	1.63	0.63
8:HK:195:LEU:HD11	8:HK:428:LEU:HD12	1.81	0.63
8:KC:348:PRO:HD2	9:KD:388:MET:HE3	1.81	0.63
9:KD:45:GLU:OE2	9:KD:46:ARG:NH2	2.31	0.63
9:KJ:135:LEU:HB3	9:KJ:166:THR:HG22	1.81	0.63
9:NH:246:LEU:HD21	8:NI:179:THR:HG21	1.81	0.63
8:OC:219:ILE:HG12	8:OC:222:PRO:HD3	1.80	0.63
9:QD:16:ILE:HD13	9:QD:136:THR:HG21	1.80	0.63
8:QE:213:CYS:HA	8:QE:217:LEU:HB2	1.79	0.63
8:QM:259:LEU:HG	8:QM:313:MET:HE1	1.81	0.63
8:WK:310:GLY:HA3	8:WK:383:ALA:HB2	1.80	0.63
56:XJ:81:LYS:HB3	56:XJ:161:ARG:HB2	1.81	0.63
56:XK:150:GLU:OE1	57:YJ:78:ARG:NH1	2.32	0.63
60:f:572:VAL:H	60:f:586:GLY:HA3	1.64	0.63
13:Ad:472:VAL:HG21	13:Ad:501:VAL:HG12	1.81	0.63
8:BM:180:ALA:HB3	8:BM:183:GLU:HG2	1.78	0.63
9:DB:323:MET:N	9:DB:323:MET:SD	2.71	0.63
9:DF:245:GLN:O	8:DG:11:GLN:NE2	2.32	0.63
9:DJ:136:THR:HG22	9:DJ:167:PHE:HB2	1.81	0.63
8:DM:7:ILE:HD11	8:DM:122:ILE:HD11	1.80	0.63
9:EJ:25:SER:HG	9:EJ:51:TYR:HH	1.47	0.63
9:EJ:132:GLY:HA3	9:EJ:163:ILE:HG22	1.80	0.63
9:EN:375:GLN:HG2	9:EN:379:LYS:HZ1	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EO:392:LEU:HB2	29:EO:426:ILE:HG21	1.80	0.63
8:FC:320:ARG:HB3	8:FC:374:ALA:HB3	1.81	0.63
8:FG:205:ASP:HB2	8:FG:303:VAL:HG13	1.81	0.63
8:IE:259:LEU:HD21	8:IE:316:CYS:HB2	1.81	0.63
8:JK:27:GLU:OE1	8:JK:243:ARG:NH1	2.31	0.63
9:LD:320:ARG:NH1	9:LD:355:ASP:OD1	2.30	0.63
8:NA:308:ARG:O	58:q:84:LYS:NZ	2.32	0.63
9:OD:248:ALA:HA	9:OD:252:LYS:HD3	1.80	0.63
8:OG:381:THR:HG22	8:OG:383:ALA:H	1.63	0.63
9:PD:354:CYS:SG	9:PD:355:ASP:N	2.71	0.63
9:QD:238:THR:OG1	9:QD:354:CYS:SG	2.56	0.63
9:QF:265:PHE:HB3	9:QF:374:ILE:HD12	1.81	0.63
9:RB:290:THR:HA	9:RB:293:MET:HE3	1.80	0.63
9:RF:287:PRO:HA	9:RF:290:THR:HG22	1.81	0.63
8:RG:2:ARG:HG3	8:RG:51:THR:HB	1.81	0.63
9:RJ:45:GLU:HG2	9:RJ:46:ARG:HG2	1.81	0.63
9:RJ:156:ARG:NH1	9:RJ:164:MET:SD	2.72	0.63
9:RL:299:MET:N	9:RL:299:MET:SD	2.72	0.63
9:SH:33:THR:O	9:SH:58:LYS:NZ	2.32	0.63
3:x:73:VAL:HA	3:x:151:LYS:HE3	1.80	0.63
2:0C:127:SER:OG	8:QK:84:ARG:NH1	2.32	0.62
7:A4:233:ALA:O	9:RH:332:ASN:ND2	2.32	0.62
8:AK:219:ILE:HD13	20:BT:160:LYS:HG3	1.81	0.62
8:BI:68:VAL:HG23	8:BI:93:ILE:HB	1.81	0.62
8:CE:215:ARG:HH22	8:CE:299:ALA:HB1	1.64	0.62
2:CY:111:LEU:HB2	2:CY:114:LEU:HD12	1.81	0.62
8:DM:204:VAL:HG23	8:DM:302:MET:HG2	1.80	0.62
9:FB:314:ALA:HB3	9:FB:368:ILE:HB	1.81	0.62
8:GI:335:ILE:HG23	8:GI:341:ILE:HD13	1.81	0.62
8:IK:335:ILE:HD11	8:IK:341:ILE:HG13	1.80	0.62
50:L1:119:ARG:HH11	8:VC:2:ARG:HH12	1.47	0.62
9:MB:375:GLN:NE2	9:MB:423:GLN:OE1	2.30	0.62
51:N:22:VAL:HG12	51:N:94:LEU:HD21	1.80	0.62
9:ND:252:LYS:O	9:ND:256:ASN:ND2	2.31	0.62
9:NL:31:ASP:OD2	9:NL:37:HIS:ND1	2.31	0.62
9:OH:186:THR:HG23	9:OH:381:ILE:HG22	1.81	0.62
9:PF:73:MET:SD	9:PF:73:MET:N	2.72	0.62
8:QE:12:ALA:HA	8:QE:15:GLN:HE21	1.63	0.62
9:QH:149:THR:HB	9:QH:191:GLN:HG2	1.81	0.62
8:RI:381:THR:O	8:RI:432:TYR:OH	2.16	0.62
8:SC:254:GLU:OE1	9:SD:99:ASN:ND2	2.22	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SF:192:LEU:HD21	9:SF:199:THR:HG21	1.80	0.62
9:TF:2:ARG:HB3	9:TF:131:GLN:HB2	1.81	0.62
9:WH:69:GLU:HG2	9:WH:71:GLY:H	1.62	0.62
9:WL:314:ALA:HB3	9:WL:368:ILE:HB	1.80	0.62
9:WL:318:ARG:HE	9:WL:358:PRO:HD3	1.63	0.62
8:AG:250:VAL:HG23	8:AG:254:GLU:HB2	1.81	0.62
21:BV:362:ASN:ND2	9:LB:363:MET:O	2.30	0.62
27:Bs:197:GLU:HG3	45:G:323:PRO:HB3	1.81	0.62
18:Bz:11:GLU:H	60:e:390:LYS:HZ1	1.46	0.62
8:CA:79:ARG:HB2	48:M:105:ILE:HD13	1.81	0.62
29:D1:202:GLU:C	29:EP:255:ARG:HH12	2.07	0.62
29:D6:91:CYS:SG	29:D6:92:ARG:N	2.72	0.62
29:D8:135:ARG:NH1	29:D8:138:GLN:OE1	2.32	0.62
29:DW:172:SER:OG	29:DW:321:ARG:NH1	2.32	0.62
9:FN:62:ARG:NH1	9:FN:127:CYS:SG	2.73	0.62
9:HN:87:PRO:HD3	9:IN:281:TYR:HD2	1.64	0.62
8:IE:212:ILE:HD11	8:IE:300:ASN:HA	1.80	0.62
9:IL:207:LEU:HB3	9:IL:225:LEU:HD22	1.80	0.62
9:KD:253:LEU:O	9:KD:257:MET:HB2	1.98	0.62
9:LL:314:ALA:HB3	9:LL:368:ILE:HB	1.80	0.62
8:LM:102:ASN:ND2	8:LM:411:GLU:OE2	2.33	0.62
8:MG:105:ARG:HG3	8:MG:411:GLU:HG2	1.82	0.62
8:MG:129:CYS:HB3	8:MG:132:LEU:HB2	1.81	0.62
9:N0:293:MET:HB3	9:N0:294:PHE:HD1	1.63	0.62
8:QI:70:LEU:HB3	8:QI:98:ASP:HA	1.80	0.62
9:RD:309:ARG:H	9:RD:372:THR:HG1	1.45	0.62
9:SB:211:CYS:HA	9:SB:215:LEU:HB2	1.81	0.62
8:VK:324:VAL:HG11	9:VL:219:THR:HB	1.81	0.62
9:WH:253:LEU:O	9:WH:257:MET:HB2	1.99	0.62
8:WM:3:GLU:HA	8:WM:51:THR:HA	1.81	0.62
60:g:571:LEU:HA	60:g:586:GLY:HA3	1.81	0.62
2:0a:50:VAL:HB	2:0a:71:LEU:HD21	1.80	0.62
2:0e:36:ASN:ND2	2:0e:57:HIS:O	2.32	0.62
14:Am:17:ILE:HD11	8:DI:84:ARG:HB3	1.81	0.62
19:BQ:380:GLY:O	8:LE:339:ARG:NH1	2.33	0.62
28:C9:291:ASP:HB3	28:F6:67:PRO:HB3	1.80	0.62
9:CJ:236:VAL:HG22	9:CJ:368:ILE:HD11	1.80	0.62
9:CL:132:GLY:HA3	9:CL:163:ILE:HG22	1.81	0.62
14:CO:221:GLY:O	8:EG:79:ARG:NH1	2.33	0.62
2:Cb:26:PHE:HD1	2:Cb:27:ILE:HD13	1.64	0.62
32:Cm:315:THR:HG21	32:Co:198:ILE:HD12	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Cu:61:ARG:HH12	33:Cy:317:ARG:HH12	1.48	0.62
33:Cu:86:ASP:OD1	33:Cu:169:ARG:NH1	2.32	0.62
29:D1:445:GLN:NE2	29:EP:284:HIS:O	2.32	0.62
29:D2:404:ARG:HH12	29:EO:453:ARG:HA	1.64	0.62
8:DC:16:ILE:HD11	8:DC:231:ILE:HG21	1.81	0.62
42:F:367:HIS:HA	8:IG:370:LYS:HD2	1.82	0.62
9:FD:238:THR:OG1	9:FD:318:ARG:NH1	2.33	0.62
9:FF:181:GLU:HA	9:FF:184:ASN:HD22	1.65	0.62
9:FJ:238:THR:OG1	9:FJ:318:ARG:NH2	2.27	0.62
9:FL:219:THR:O	47:Y:457:ARG:NH2	2.32	0.62
9:GJ:32:PRO:HD3	9:GJ:81:PHE:CE1	2.34	0.62
8:HE:274:PRO:HG2	8:HE:374:ALA:HA	1.81	0.62
9:JB:251:ARG:HH11	8:JC:105:ARG:HH22	1.47	0.62
8:JE:430:LYS:HB3	58:q:134:PRO:HG3	1.81	0.62
9:JN:2:ARG:HB3	9:JN:131:GLN:HB2	1.81	0.62
9:KH:159:TYR:HB3	9:KH:162:ARG:HG3	1.81	0.62
9:MH:330:MET:HB3	9:MH:349:VAL:HG21	1.79	0.62
9:N0:31:ASP:OD2	9:N0:37:HIS:ND1	2.32	0.62
8:NE:214:ARG:HH12	8:NE:220:GLU:HG3	1.64	0.62
9:NF:16:ILE:HD11	9:NF:229:VAL:HG11	1.80	0.62
8:OI:136:LEU:HD23	8:OI:167:LEU:HB2	1.82	0.62
9:PF:8:GLN:NE2	9:PF:65:LEU:HA	2.15	0.62
9:QH:16:ILE:HD13	9:QH:136:THR:HG21	1.82	0.62
9:RH:3:GLU:HB3	9:RH:62:ARG:HH12	1.64	0.62
9:SJ:178:THR:HB	9:SJ:181:GLU:HB2	1.82	0.62
9:SJ:289:LEU:HD21	9:SJ:365:ALA:HB2	1.81	0.62
9:TH:321:MET:HE2	9:TH:363:MET:HG3	1.79	0.62
9:UJ:354:CYS:SG	9:UJ:355:ASP:N	2.70	0.62
9:UL:237:THR:OG1	9:UL:241:ARG:NH2	2.31	0.62
9:VD:1:MET:HE3	9:VD:46:ARG:HD2	1.81	0.62
9:WF:251:ARG:NH1	8:WG:97:GLU:OE1	2.32	0.62
9:WF:331:LEU:HD22	8:WG:177:VAL:HB	1.81	0.62
56:XK:16:SER:O	56:XK:36:ARG:NH1	2.32	0.62
57:YL:38:VAL:HB	57:YL:54:ARG:HD2	1.79	0.62
7:A3:159:PRO:O	9:QF:329:GLN:NE2	2.32	0.62
7:A6:240:ILE:HD11	9:RL:114:ASP:HB2	1.80	0.62
7:A7:68:PRO:HG3	8:SI:341:ILE:HG13	1.80	0.62
8:AI:98:ASP:O	8:AI:105:ARG:NH1	2.32	0.62
11:AT:260:GLU:CD	29:DX:168:ASN:HD22	2.08	0.62
13:Ab:86:ARG:NH2	13:Ab:103:GLU:OE1	2.32	0.62
9:BL:232:THR:HG21	9:BL:268:PRO:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BP:352:MET:HG2	54:S:140:HIS:CD2	2.34	0.62
19:BR:358:ARG:O	19:BR:362:HIS:HB2	1.99	0.62
9:CH:322:SER:HA	8:CI:223:THR:HG22	1.81	0.62
67:CL:502:GTP:N2	8:CM:206:ASN:OD1	2.32	0.62
8:CM:385:ALA:HA	8:CM:388:TRP:HD1	1.65	0.62
8:DM:168:GLU:HB2	8:DM:201:ALA:HA	1.82	0.62
9:EB:62:ARG:NH1	9:EB:127:CYS:SG	2.72	0.62
9:EJ:289:LEU:O	9:EJ:293:MET:HB2	1.98	0.62
28:F3:188:THR:HG23	28:F3:336:MET:HE1	1.81	0.62
9:HB:86:ARG:NH1	9:IB:281:TYR:O	2.31	0.62
8:II:206:ASN:OD1	67:II:501:GTP:N2	2.31	0.62
8:II:271:THR:HB	8:II:377:MET:HB3	1.80	0.62
8:JC:168:GLU:HB2	8:JC:201:ALA:HA	1.80	0.62
9:JD:121:ARG:NH2	9:JD:158:GLU:OE1	2.32	0.62
8:MK:362:VAL:HG21	8:MK:370:LYS:HG2	1.82	0.62
9:ML:100:ASN:HB3	9:ML:103:LYS:HB3	1.79	0.62
9:OB:354:CYS:SG	9:OB:355:ASP:N	2.72	0.62
8:PC:158:SER:OG	8:PC:166:LYS:NZ	2.32	0.62
8:PM:115:VAL:HG11	8:PM:152:LEU:HD22	1.81	0.62
9:QH:257:MET:SD	9:QH:312:THR:OG1	2.58	0.62
8:QI:153:LEU:O	8:QI:157:LEU:HB2	1.98	0.62
8:RC:34:GLY:O	8:RC:61:HIS:ND1	2.31	0.62
8:RG:16:ILE:HA	8:RG:228:ASN:HD21	1.64	0.62
8:SE:313:MET:HG3	8:SE:344:VAL:HG21	1.81	0.62
8:TC:2:ARG:HB3	8:TC:242:LEU:HD22	1.80	0.62
8:TE:212:ILE:HD11	8:TE:275:VAL:HG21	1.82	0.62
9:TH:325:GLU:OE2	8:TI:221:ARG:NH1	2.32	0.62
9:TH:347:ASN:HD22	8:TI:178:SER:HB2	1.64	0.62
9:UD:324:LYS:NZ	8:UE:221:ARG:HA	2.15	0.62
9:VJ:276:ARG:NH1	59:b:349:GLU:HG3	2.14	0.62
9:WB:31:ASP:HB2	9:WB:35:THR:H	1.64	0.62
8:WC:72:PRO:O	8:WC:76:ASP:HB2	1.98	0.62
9:WD:323:MET:N	9:WD:323:MET:SD	2.73	0.62
63:m:24:ILE:HD11	63:m:28:LEU:HD23	1.81	0.62
8:AA:326:LYS:HE2	9:AB:219:THR:HA	1.80	0.62
12:AW:6:ARG:HH22	8:IK:41:THR:HA	1.63	0.62
18:B5:97:HIS:HB3	18:B5:100:MET:HB2	1.81	0.62
9:BD:392:LYS:HG2	9:BD:395:LEU:HD12	1.81	0.62
27:Br:163:MET:SD	9:HB:279:GLN:NE2	2.73	0.62
9:DJ:265:PHE:HB3	9:DJ:374:ILE:HD13	1.80	0.62
9:DN:412:GLU:HA	9:DN:415:MET:HG3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ES:331:ASP:OD1	44:ET:78:ARG:NH1	2.32	0.62
42:F:438:THR:OG1	9:IJ:276:ARG:NH2	2.33	0.62
9:FN:109:GLY:HA2	9:FN:147:MET:HE1	1.81	0.62
8:HC:65:ALA:H	8:HC:91:GLN:NE2	1.97	0.62
9:HF:1:MET:N	9:HF:48:ASN:HD21	1.98	0.62
8:JE:119:LEU:HD11	8:JE:156:ARG:HG2	1.80	0.62
9:JH:132:GLY:HA3	9:JH:163:ILE:HG22	1.82	0.62
9:KD:277:GLY:HA3	47:X:42:ARG:HH12	1.65	0.62
8:MI:311:LYS:H	8:MI:382:THR:HG1	1.45	0.62
9:PB:54:ALA:HA	9:QB:283:ALA:HB2	1.80	0.62
9:QJ:207:LEU:HD13	9:QJ:225:LEU:HB3	1.79	0.62
9:QL:245:GLN:O	8:QM:11:GLN:NE2	2.33	0.62
9:TF:293:MET:HG2	9:TF:367:PHE:CD2	2.28	0.62
9:TJ:255:VAL:HA	8:TK:407:TRP:HZ3	1.63	0.62
9:TL:207:LEU:HB3	9:TL:225:LEU:HD22	1.79	0.62
9:UN:5:VAL:HG22	9:UN:62:ARG:HD3	1.80	0.62
9:WD:257:MET:SD	9:WD:312:THR:OG1	2.55	0.62
8:WE:239:THR:OG1	8:WE:243:ARG:NH1	2.32	0.62
9:WH:292:GLN:HG2	9:WH:298:ASN:HD22	1.62	0.62
12:AV:284:GLU:HG3	30:CW:352:GLY:HA3	1.82	0.62
8:CC:392:ASP:HB3	8:CC:422:ARG:HH22	1.62	0.62
9:CJ:204:ASN:OD1	69:CJ:501:GDP:N2	2.32	0.62
9:CJ:271:ALA:HB2	9:CJ:293:MET:HE2	1.82	0.62
2:CX:10:ARG:NH1	2:Cb:55:GLU:OE2	2.32	0.62
2:Cg:111:LEU:HD22	2:Cg:141:LEU:HD11	1.80	0.62
32:Cm:198:ILE:HG22	32:Cn:315:THR:HG21	1.80	0.62
29:DR:296:PRO:HG3	29:DR:300:ALA:HB3	1.81	0.62
8:EK:62:VAL:O	8:EK:64:ARG:NH1	2.33	0.62
9:FH:173:PRO:HB3	9:FH:380:ARG:HD3	1.82	0.62
9:GD:3:GLU:HG3	9:GD:127:CYS:HB3	1.81	0.62
8:HK:274:PRO:HG2	8:HK:374:ALA:HA	1.82	0.62
9:JB:26:ASP:OD1	9:JB:359:ARG:NH1	2.33	0.62
9:JF:213:ARG:HH22	51:N:110:THR:HB	1.65	0.62
8:KG:175:PRO:HB3	8:KG:390:ARG:HH22	1.63	0.62
9:KH:198:GLU:HG2	9:KH:266:PHE:HE2	1.62	0.62
8:KO:64:ARG:NH1	8:KO:129:CYS:SG	2.72	0.62
9:LD:237:THR:HG22	9:LD:250:LEU:HD21	1.81	0.62
9:OL:89:ASN:ND2	9:OL:123:GLU:OE2	2.21	0.62
8:PG:11:GLN:HE21	8:PG:15:GLN:HG3	1.65	0.62
9:QB:148:GLY:HA2	9:QB:151:LEU:HD12	1.81	0.62
9:RJ:21:TRP:CZ3	9:RJ:61:PRO:HB2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SA:271:THR:OG1	8:SA:301:GLN:OE1	2.18	0.62
8:SG:59:GLY:HA3	46:o:385:ARG:HH21	1.64	0.62
9:SH:173:PRO:HB2	9:SH:174:LYS:HD2	1.82	0.62
8:UE:173:PRO:O	8:UE:390:ARG:NH2	2.32	0.62
9:UH:299:MET:HA	9:UH:299:MET:HE2	1.80	0.62
9:WD:354:CYS:SG	9:WD:355:ASP:N	2.69	0.62
8:WI:53:PHE:HB3	8:WI:61:HIS:HB3	1.80	0.62
57:YJ:195:PRO:HD3	57:YJ:247:MET:HE2	1.81	0.62
60:g:235:MET:HG3	60:g:242:LEU:HA	1.80	0.62
4:3:1457:LYS:HG2	4:3:1460:ARG:HH22	1.64	0.62
7:A5:49:PRO:O	9:RF:332:ASN:ND2	2.33	0.62
13:Ad:222:TRP:HB2	13:Ad:337:VAL:HG12	1.82	0.62
8:BE:238:ILE:HD11	8:BE:378:LEU:HD21	1.81	0.62
28:C8:371:GLU:HG3	28:DO:114:ARG:HG2	1.82	0.62
28:C9:213:ASP:OD2	28:C9:350:ARG:NE	2.31	0.62
9:CF:37:HIS:HE1	48:J:53:LEU:HD22	1.63	0.62
2:CU:130:GLU:HA	2:CU:134:HIS:CD2	2.34	0.62
8:DA:15:GLN:O	8:DA:228:ASN:ND2	2.33	0.62
9:DB:204:ASN:ND2	69:DB:501:GDP:O2'	2.32	0.62
8:DE:7:ILE:HG22	8:DE:66:VAL:HB	1.80	0.62
8:DG:317:MET:HE2	8:DG:375:VAL:HG21	1.81	0.62
9:DH:245:GLN:O	8:DI:11:GLN:NE2	2.33	0.62
8:DM:53:PHE:HB3	8:DM:61:HIS:HB3	1.81	0.62
39:Dk:46:ARG:NH2	8:LI:336:LYS:O	2.32	0.62
8:EE:392:ASP:OD2	8:EE:422:ARG:NH2	2.31	0.62
9:GB:282:ARG:NH2	9:GB:292:GLN:OE1	2.33	0.62
8:GG:121:ARG:O	8:GG:121:ARG:NH1	2.33	0.62
9:HD:322:SER:OG	9:HD:325:GLU:OE2	2.17	0.62
9:HF:193:VAL:HG22	9:HF:265:PHE:HZ	1.64	0.62
9:KH:257:MET:HE1	9:KH:368:ILE:HG22	1.82	0.62
9:KJ:62:ARG:HG2	9:KJ:123:GLU:HG3	1.80	0.62
9:MJ:257:MET:HE2	9:MJ:368:ILE:HG22	1.80	0.62
9:RH:199:THR:OG1	9:RH:264:HIS:O	2.18	0.62
8:UG:396:ASP:OD1	8:UG:422:ARG:NH1	2.32	0.62
8:VE:327:ASP:OD1	8:VE:327:ASP:N	2.33	0.62
9:WH:331:LEU:HG	8:WI:177:VAL:HG22	1.81	0.62
59:c:122:LEU:HD23	59:c:125:ARG:HH22	1.63	0.62
60:e:570:HIS:HB3	60:e:590:SER:HA	1.81	0.62
60:f:34:LYS:HA	60:f:300:THR:HG21	1.80	0.62
60:f:127:MET:HG3	60:f:173:ARG:HH21	1.64	0.62
8:AE:211:ASP:HB3	8:AE:215:ARG:HH21	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AF:262:ARG:HH12	57:YJ:247:MET:HE1	1.63	0.62
9:AL:423:GLN:NE2	57:YG:61:ALA:HA	2.14	0.62
8:BC:236:SER:O	8:BC:243:ARG:NH2	2.33	0.62
19:BQ:353:THR:HG22	19:BQ:443:LEU:HD11	1.82	0.62
19:BR:111:LEU:HD12	19:BR:113:MET:HE1	1.80	0.62
9:CJ:202:ILE:HG12	9:CJ:300:MET:HB3	1.81	0.62
8:CM:97:GLU:OE2	8:CM:105:ARG:NH2	2.33	0.62
9:DH:31:ASP:N	9:DH:31:ASP:OD1	2.31	0.62
8:FG:326:LYS:HD2	9:FH:220:PRO:HD2	1.81	0.62
8:GC:234:ILE:HD11	8:GC:272:TYR:HB2	1.82	0.62
9:GF:347:ASN:ND2	8:GG:178:SER:OG	2.27	0.62
9:GH:247:ASN:OD1	8:GI:11:GLN:NE2	2.32	0.62
8:HK:326:LYS:NZ	9:HL:218:THR:O	2.32	0.62
8:HO:6:SER:HA	8:HO:136:LEU:HB2	1.82	0.62
8:II:329:ASN:HB3	9:IJ:175:VAL:HG11	1.80	0.62
8:KM:139:HIS:NE2	8:KM:168:GLU:OE2	2.32	0.62
8:PG:372:GLN:HE21	8:PG:373:ARG:HG3	1.64	0.62
9:QD:207:LEU:HB3	9:QD:225:LEU:HD22	1.82	0.62
8:RE:347:CYS:HA	9:RF:388:MET:HE2	1.82	0.62
8:RG:76:ASP:HA	8:RG:79:ARG:HE	1.64	0.62
8:RI:192:HIS:HD2	8:RI:421:ALA:HA	1.63	0.62
8:SI:11:GLN:HG3	8:SI:74:VAL:HG21	1.81	0.62
8:VC:132:LEU:HD21	8:VC:164:LYS:HZ1	1.64	0.62
8:VE:254:GLU:HA	8:VE:257:THR:HG22	1.81	0.62
9:WB:66:VAL:HG12	9:WB:91:VAL:HB	1.81	0.62
8:WE:381:THR:HG22	8:WE:383:ALA:H	1.65	0.62
60:f:333:CYS:SG	60:f:334:HIS:N	2.73	0.62
63:n:31:SER:OG	63:n:32:ASP:N	2.30	0.62
2:0k:126:LEU:O	8:RA:84:ARG:NH1	2.32	0.62
2:0k:128:CYS:HB3	8:RA:85:GLN:HB2	1.82	0.62
8:AC:98:ASP:O	8:AC:105:ARG:NH1	2.32	0.62
8:AE:174:ALA:HB3	8:AE:177:VAL:HB	1.82	0.62
9:AJ:111:GLU:N	9:AJ:111:GLU:OE1	2.33	0.62
14:Bc:195:GLU:OE1	33:Cv:423:LYS:NZ	2.32	0.62
14:Be:227:PRO:HD2	14:Be:245:MET:HE1	1.81	0.62
2:Cb:126:LEU:HD23	2:Cb:130:GLU:HB3	1.82	0.62
29:Cz:212:ASP:OD2	29:Cz:349:ARG:NH1	2.33	0.62
29:D0:393:LYS:HZ1	29:D1:282:PHE:HA	1.65	0.62
29:D3:286:VAL:HG21	29:D4:396:GLN:HG2	1.81	0.62
8:DE:93:ILE:HD11	8:DE:118:VAL:HG22	1.80	0.62
9:GJ:203:ASP:OD1	9:GJ:205:GLU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IH:314:ALA:HB3	9:IH:368:ILE:HB	1.81	0.62
9:JB:7:LEU:HB2	9:JB:135:LEU:HD13	1.81	0.62
8:KC:98:ASP:O	8:KC:105:ARG:NH1	2.33	0.62
8:KC:217:LEU:HD23	8:KC:367:ASP:HB3	1.81	0.62
9:KD:159:TYR:HB3	9:KD:162:ARG:HG2	1.82	0.62
8:LC:97:GLU:OE1	8:LC:105:ARG:NH2	2.33	0.62
8:LI:284:GLU:OE2	8:MI:88:HIS:NE2	2.33	0.62
9:LJ:237:THR:HG22	9:LJ:250:LEU:HD21	1.82	0.62
9:OB:375:GLN:OE1	9:OB:379:LYS:NZ	2.32	0.62
9:QB:204:ASN:OD1	69:QB:501:GDP:N2	2.33	0.62
9:QL:200:TYR:HD2	9:QL:268:PRO:HG3	1.65	0.62
9:SH:117:LEU:HB3	9:SH:121:ARG:HH12	1.64	0.62
9:TB:314:ALA:HB3	9:TB:368:ILE:HB	1.82	0.62
8:UE:140:SER:OG	67:UE:501:GTP:O2A	2.17	0.62
8:UI:318:LEU:HB2	8:UI:376:CYS:HB3	1.82	0.62
8:UK:260:VAL:HG13	9:UL:397:TRP:HE1	1.65	0.62
8:UM:217:LEU:HD11	8:UM:367:ASP:HB2	1.82	0.62
9:VH:385:PHE:HZ	9:VH:408:PHE:HB3	1.64	0.62
9:WB:354:CYS:SG	9:WB:355:ASP:N	2.72	0.62
56:XK:96:ASP:OD1	56:XK:146:THR:OG1	2.16	0.62
56:XL:115:LYS:O	56:XL:144:TYR:OH	2.17	0.62
57:YG:105:TYR:HB3	57:YG:145:VAL:HG11	1.81	0.62
8:AK:431:ASP:OD1	56:XH:102:ARG:NH2	2.33	0.62
13:Ab:283:GLN:HA	9:CJ:276:ARG:NH2	2.12	0.62
13:Ad:287:GLN:HE22	13:Ad:306:LEU:HD13	1.64	0.62
8:BA:11:GLN:HG3	8:BA:74:VAL:HG11	1.80	0.62
28:C4:452:LYS:NZ	28:C4:456:GLU:OE2	2.32	0.62
8:CK:294:ALA:O	8:CK:300:ASN:ND2	2.33	0.62
9:DH:267:MET:HE1	9:DH:305:PRO:HD3	1.82	0.62
9:DL:178:THR:HB	9:DL:181:GLU:HB3	1.82	0.62
9:DN:205:GLU:HA	9:DN:208:TYR:HB2	1.82	0.62
43:E1:113:LEU:HD11	28:F2:415:MET:HG3	1.82	0.62
9:EN:61:PRO:HD3	9:EN:84:ILE:HG22	1.80	0.62
9:FJ:334:GLN:HE21	9:FJ:349:VAL:HG23	1.64	0.62
8:HC:141:PHE:HE2	8:HC:170:ALA:HB1	1.64	0.62
8:IC:70:LEU:HD12	8:IC:99:ALA:HB2	1.82	0.62
8:II:26:LEU:HD23	8:II:363:VAL:HG12	1.82	0.62
8:IM:212:ILE:HD11	8:IM:300:ASN:HA	1.81	0.62
9:KH:27:GLU:OE2	9:KH:241:ARG:NH1	2.31	0.62
9:MJ:143:THR:O	9:MJ:147:MET:HB3	2.00	0.62
8:OA:188:ILE:HG21	8:OA:395:LEU:HD22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QM:260:VAL:HG22	8:QM:262:TYR:H	1.65	0.62
8:RC:288:VAL:O	8:RC:292:THR:OG1	2.17	0.62
8:RK:324:VAL:HG22	8:RK:326:LYS:H	1.65	0.62
9:SF:171:PRO:O	9:SF:380:ARG:NH2	2.32	0.62
9:UN:67:ASP:HB3	9:UN:73:MET:HE3	1.82	0.62
9:VD:347:ASN:ND2	8:VE:178:SER:OG	2.33	0.62
8:VE:265:ILE:HD11	8:VE:435:VAL:HG21	1.82	0.62
9:VH:375:GLN:HB2	9:VH:419:VAL:HG13	1.81	0.62
8:VI:236:SER:OG	8:VI:243:ARG:NH2	2.33	0.62
9:WF:292:GLN:OE1	9:WF:298:ASN:ND2	2.33	0.62
9:WN:173:PRO:HB2	9:WN:174:LYS:HD2	1.82	0.62
59:c:248:ARG:HG3	59:c:252:ARG:HE	1.65	0.62
60:g:356:LYS:HG3	60:g:357:LYS:HG3	1.82	0.62
8:AA:69:ASP:OD1	8:AA:70:LEU:N	2.33	0.61
11:AT:209:ARG:HG3	9:GF:279:GLN:HG3	1.82	0.61
12:AW:202:LYS:HE2	12:AW:202:LYS:HA	1.82	0.61
7:Aw:58:MET:SD	9:OD:213:ARG:NH1	2.73	0.61
17:B8:229:ARG:O	44:EU:287:GLN:NE2	2.33	0.61
19:BR:87:PRO:HG2	19:BR:101:LYS:HB3	1.81	0.61
14:Bc:95:TYR:OH	28:C3:224:ASP:OD2	2.16	0.61
29:C1:238:ARG:NH2	29:C1:323:GLU:OE1	2.33	0.61
9:CD:127:CYS:SG	9:CD:128:ASP:N	2.73	0.61
9:CD:265:PHE:HB3	9:CD:374:ILE:HD13	1.81	0.61
29:Cz:363:GLN:HG2	29:Cz:454:LEU:HD21	1.81	0.61
34:D:112:ARG:HH12	34:D:113:LYS:HE2	1.64	0.61
28:DO:151:ASN:HD21	29:DQ:139:GLU:HB3	1.65	0.61
9:GF:325:GLU:OE2	8:GG:221:ARG:NH1	2.33	0.61
9:HD:1:MET:N	9:HD:48:ASN:OD1	2.33	0.61
8:II:188:ILE:HG21	8:II:395:LEU:HD13	1.80	0.61
8:IO:338:LYS:HD3	8:IO:338:LYS:N	2.15	0.61
9:JD:198:GLU:HG2	9:JD:266:PHE:HE2	1.65	0.61
9:JL:40:SER:HB3	1:V:152:THR:HG22	1.82	0.61
8:KG:255:PHE:O	8:KG:259:LEU:HB2	2.00	0.61
50:L2:42:SER:OG	50:L2:44:TYR:O	2.17	0.61
8:NE:155:GLU:HA	8:NE:197:HIS:ND1	2.14	0.61
8:NE:204:VAL:HG13	8:NE:302:MET:HB3	1.81	0.61
8:NG:3:GLU:HA	8:NG:51:THR:HA	1.81	0.61
9:PJ:237:THR:OG1	9:PJ:241:ARG:NH1	2.32	0.61
8:QC:21:TRP:CZ3	8:QC:63:PRO:HB3	2.34	0.61
9:QF:291:GLN:NE2	9:QF:292:GLN:OE1	2.33	0.61
8:QM:274:PRO:HG3	8:QM:374:ALA:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RH:27:GLU:OE2	9:RH:241:ARG:NH2	2.34	0.61
9:RJ:287:PRO:HD2	9:RJ:288:GLU:H	1.65	0.61
9:SD:73:MET:HA	9:SD:76:VAL:HG12	1.81	0.61
9:SD:247:ASN:ND2	8:SE:11:GLN:OE1	2.32	0.61
8:TE:381:THR:HG22	8:TE:383:ALA:H	1.64	0.61
8:TM:265:ILE:HG22	8:TM:380:ASN:HD21	1.63	0.61
9:VD:213:ARG:HH21	9:VD:297:LYS:HD2	1.65	0.61
9:VF:311:LEU:HD23	9:VF:342:VAL:HG21	1.82	0.61
9:WJ:263:LEU:HG	9:WJ:422:TYR:HE1	1.65	0.61
59:d:394:GLU:HG3	59:d:398:ARG:NH1	2.14	0.61
9:AH:304:ASP:HB3	9:AH:307:HIS:CE1	2.34	0.61
10:AR:81:LEU:HD23	10:AR:89:ALA:HB1	1.82	0.61
7:Az:249:LEU:HD11	9:OL:73:MET:SD	2.40	0.61
8:BI:70:LEU:HD12	8:BI:99:ALA:HB2	1.82	0.61
19:BP:246:GLU:OE1	19:BQ:403:ARG:NH1	2.33	0.61
19:BP:471:GLN:HB2	8:MG:163:LYS:HZ3	1.64	0.61
28:C4:277:THR:HG21	32:Cn:85:VAL:HG11	1.81	0.61
28:C9:197:GLU:HB3	28:C9:476:MET:HE1	1.81	0.61
33:Cr:73:ARG:HH12	33:Cr:74:TRP:CD1	2.18	0.61
8:DC:103:TYR:CG	8:DC:189:LEU:HD23	2.35	0.61
9:DD:207:LEU:HD23	9:DD:225:LEU:HB3	1.82	0.61
35:DZ:60:CYS:HB3	35:DZ:64:GLU:HG3	1.81	0.61
38:Dh:127:GLN:NE2	38:Dh:137:GLU:O	2.28	0.61
8:FG:256:GLN:HB2	9:FH:397:TRP:HH2	1.64	0.61
9:HL:60:VAL:HG11	9:IL:281:TYR:HB3	1.81	0.61
8:IK:139:HIS:NE2	8:IK:168:GLU:OE2	2.30	0.61
9:IN:117:LEU:HD11	9:IN:154:LYS:HG2	1.80	0.61
9:JF:67:ASP:OD2	9:JF:68:LEU:N	2.33	0.61
9:JF:170:VAL:HG21	9:JF:377:LEU:HD21	1.82	0.61
49:K1:115:TYR:OH	8:TK:1:MET:N	2.33	0.61
9:KF:256:ASN:HD21	8:KG:182:VAL:HG22	1.65	0.61
9:KJ:271:ALA:HB2	9:KJ:293:MET:HG3	1.82	0.61
8:OE:413:MET:SD	8:OE:413:MET:N	2.72	0.61
8:PG:346:TRP:HB3	9:PH:391:ARG:HD3	1.81	0.61
8:QG:51:THR:HG21	8:QG:243:ARG:HG2	1.81	0.61
8:QK:381:THR:HG22	8:QK:383:ALA:H	1.65	0.61
9:RB:207:LEU:HB3	9:RB:225:LEU:HD22	1.81	0.61
8:RE:203:MET:HE1	8:RE:267:PHE:HB3	1.82	0.61
9:RF:113:VAL:HG22	9:RF:117:LEU:HD23	1.82	0.61
8:RG:381:THR:HG22	8:RG:383:ALA:H	1.65	0.61
9:RL:2:ARG:HB3	9:RL:131:GLN:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SH:271:ALA:O	9:SH:292:GLN:NE2	2.33	0.61
8:TG:241:SER:HB2	8:TG:249:ASN:HD22	1.66	0.61
8:TM:180:ALA:HB3	8:TM:183:GLU:HB3	1.80	0.61
8:UI:90:GLU:OE2	8:VI:280:LYS:NZ	2.33	0.61
9:VF:209:ASP:HB3	9:VF:213:ARG:HE	1.65	0.61
9:VN:272:PRO:HG3	9:VN:364:SER:HA	1.82	0.61
9:VN:273:LEU:O	9:VN:292:GLN:NE2	2.32	0.61
56:XJ:79:ILE:HG12	56:XJ:131:GLN:HG2	1.82	0.61
60:g:521:ILE:HD11	60:g:556:ILE:HD11	1.81	0.61
11:AU:406:GLN:CG	34:D:82:ARG:HH12	2.12	0.61
8:BG:91:GLN:HB3	8:BG:121:ARG:HE	1.65	0.61
8:BG:279:GLU:HG3	14:Ba:238:ARG:HG3	1.80	0.61
9:BH:113:VAL:HA	9:BH:116:VAL:HG12	1.81	0.61
21:Bj:114:ASP:HB3	21:Bj:117:ALA:HB2	1.80	0.61
21:Bk:271:ASP:OD1	21:Bk:272:ARG:NH1	2.32	0.61
28:C7:196:ARG:NH1	28:C8:77:GLU:OE2	2.32	0.61
2:Cd:126:LEU:HB3	2:Cd:131:ALA:HB2	1.82	0.61
32:Cm:85:VAL:HG12	32:Cm:168:LYS:HD2	1.81	0.61
29:D3:139:GLU:OE1	29:D3:143:ARG:NH2	2.33	0.61
29:D7:399:LEU:HD11	29:D7:419:LEU:HB3	1.82	0.61
8:DI:168:GLU:HB2	8:DI:201:ALA:HA	1.81	0.61
8:EM:88:HIS:HE1	8:FM:280:LYS:HG2	1.64	0.61
9:EN:8:GLN:NE2	9:EN:13:GLY:O	2.34	0.61
8:GK:298:PRO:O	8:GK:301:GLN:NE2	2.33	0.61
46:H:605:TYR:OH	46:o:285:ASP:OD1	2.14	0.61
9:IN:376:GLU:OE1	9:IN:380:ARG:NH2	2.34	0.61
8:JM:172:TYR:HD1	8:JM:203:MET:HE2	1.65	0.61
8:KC:298:PRO:HG2	8:KC:308:ARG:HH11	1.65	0.61
9:KN:170:VAL:HG11	9:KN:377:LEU:HD21	1.83	0.61
9:MB:317:PHE:HE1	9:MB:330:MET:HE1	1.65	0.61
8:MG:188:ILE:HG13	8:MG:395:LEU:HD13	1.82	0.61
8:NK:254:GLU:OE2	8:NK:258:ASN:ND2	2.34	0.61
9:O0:25:SER:HB3	9:O0:30:ILE:HB	1.81	0.61
9:PJ:101:TRP:O	9:PJ:105:HIS:HB2	2.00	0.61
9:RD:156:ARG:HH21	9:RD:196:THR:HA	1.65	0.61
8:RG:60:LYS:NZ	8:RG:85:GLN:O	2.33	0.61
8:SE:33:ASP:O	8:SE:60:LYS:NZ	2.33	0.61
9:TB:346:PRO:HD3	8:TC:397:LEU:HD11	1.82	0.61
8:TE:311:LYS:HG2	8:TE:342:GLN:HG3	1.81	0.61
9:UF:2:ARG:NH2	8:UG:71:GLU:OE2	2.31	0.61
8:WI:71:GLU:HB2	8:WI:98:ASP:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WM:168:GLU:HB2	8:WM:201:ALA:HA	1.82	0.61
56:XJ:71:ILE:HG22	56:XJ:73:LEU:H	1.65	0.61
57:YK:245:LYS:NZ	57:YK:251:TYR:O	2.30	0.61
59:a:148:LYS:NZ	60:e:540:ILE:O	2.34	0.61
2:0Y:127:SER:OG	8:PM:84:ARG:NH1	2.34	0.61
8:AC:254:GLU:HG2	9:AD:98:GLY:HA2	1.83	0.61
8:AG:204:VAL:HG11	8:AG:231:ILE:HD11	1.82	0.61
9:AJ:248:ALA:HA	9:AJ:252:LYS:HE3	1.82	0.61
13:Ab:73:ASP:HB3	13:Ab:84:ARG:HB3	1.82	0.61
13:Ad:466:PHE:O	9:EB:83:GLN:NE2	2.33	0.61
14:Ao:184:ARG:HD2	28:C3:90:LEU:HD23	1.82	0.61
19:BR:484:TRP:NE1	9:LL:383:GLU:OE2	2.32	0.61
29:C1:162:GLU:OE1	29:C1:310:SER:OG	2.17	0.61
28:C9:283:TYR:HD2	43:E4:15:ARG:HD2	1.65	0.61
9:CB:37:HIS:NE2	48:M:49:CYS:SG	2.70	0.61
9:CH:204:ASN:OD1	69:CH:501:GDP:N2	2.32	0.61
33:Cu:316:THR:HA	33:Cw:202:LYS:HE2	1.82	0.61
29:D1:207:ILE:HG12	29:D2:98:TRP:HD1	1.65	0.61
29:D2:366:LYS:C	29:D8:113:ARG:HH12	2.07	0.61
9:DD:68:LEU:HD22	9:DD:97:ALA:HB2	1.82	0.61
28:DO:143:THR:HG21	28:DO:275:ARG:HH22	1.64	0.61
8:EG:408:TYR:HB3	8:EG:413:MET:HE3	1.83	0.61
8:FE:27:GLU:OE2	8:FE:243:ARG:NH1	2.32	0.61
9:FH:67:ASP:OD1	9:FH:68:LEU:N	2.33	0.61
9:GL:211:CYS:HA	9:GL:215:LEU:HB2	1.81	0.61
9:JH:2:ARG:HH21	9:JH:249:ASP:HB3	1.65	0.61
50:L1:88:GLU:OE2	50:L1:92:ARG:NH2	2.33	0.61
8:NC:6:SER:HG	8:NC:8:HIS:HE2	1.49	0.61
8:NC:154:MET:HE2	8:NC:194:THR:HG23	1.82	0.61
8:NE:11:GLN:HG3	8:NE:74:VAL:HG21	1.83	0.61
8:NE:147:SER:OG	8:NE:190:THR:OG1	2.15	0.61
8:OG:75:VAL:HG13	8:OG:92:LEU:HD12	1.83	0.61
9:OH:170:VAL:HG11	9:OH:377:LEU:HD11	1.83	0.61
8:QC:286:LEU:O	8:QC:373:ARG:NH1	2.32	0.61
9:QH:131:GLN:NE2	9:QH:249:ASP:OD1	2.33	0.61
9:RB:321:MET:SD	9:RB:321:MET:N	2.72	0.61
9:SD:252:LYS:NZ	67:SE:501:GTP:O3G	2.33	0.61
9:UH:200:TYR:HE2	9:UH:368:ILE:HD12	1.65	0.61
9:UN:313:VAL:HG13	9:UN:367:PHE:HE2	1.64	0.61
9:VB:127:CYS:SG	9:VB:128:ASP:N	2.72	0.61
9:WD:190:HIS:NE2	9:WD:414:ASN:OD1	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WJ:262:ARG:NH2	9:WJ:414:ASN:HD21	1.98	0.61
56:XG:149:ILE:HG12	56:XG:150:GLU:HG2	1.80	0.61
56:XK:8:SER:OG	56:XK:9:GLY:N	2.33	0.61
60:e:312:THR:OG1	60:e:314:GLU:O	2.19	0.61
60:f:490:ILE:HD11	60:f:500:GLN:HB2	1.82	0.61
7:A3:171:SER:O	9:QF:213:ARG:NH2	2.34	0.61
7:A3:181:GLY:O	8:QE:338:LYS:NZ	2.33	0.61
7:A7:200:TYR:HD1	9:RB:125:GLU:HG3	1.65	0.61
8:AK:108:TYR:HA	8:AK:112:LYS:HZ2	1.64	0.61
11:AU:415:ARG:HD3	11:AU:419:GLN:HE21	1.64	0.61
7:Au:202:MET:SD	9:GN:306:ARG:NH1	2.74	0.61
9:CJ:2:ARG:HG3	9:CJ:240:LEU:HD23	1.82	0.61
33:Cq:313:LEU:HA	33:Cs:199:ILE:HD12	1.82	0.61
8:DC:136:LEU:HG	8:DC:167:LEU:HB2	1.83	0.61
8:DC:259:LEU:HD11	8:DC:378:LEU:HB3	1.83	0.61
9:DL:230:SER:HA	9:DL:233:MET:HB3	1.82	0.61
28:F6:118:GLU:HG2	28:F6:121:ARG:HH21	1.65	0.61
9:FB:245:GLN:O	8:FC:11:GLN:NE2	2.33	0.61
9:FF:152:ILE:HG23	9:FF:164:MET:HE2	1.81	0.61
9:FL:96:GLY:O	9:FL:103:LYS:NZ	2.33	0.61
8:GC:274:PRO:HG2	8:GC:374:ALA:HA	1.81	0.61
8:GE:89:PRO:HD3	8:HE:283:HIS:HD1	1.66	0.61
8:HI:7:ILE:HB	8:HI:137:ILE:HG12	1.81	0.61
9:IL:354:CYS:SG	9:IL:355:ASP:N	2.74	0.61
9:JD:271:ALA:O	9:JD:292:GLN:NE2	2.33	0.61
9:JD:330:MET:HA	9:JD:333:VAL:HG12	1.82	0.61
9:JN:271:ALA:O	9:JN:292:GLN:NE2	2.34	0.61
9:KB:27:GLU:OE1	9:KB:241:ARG:NH1	2.30	0.61
9:NL:125:GLU:OE2	9:NL:159:TYR:OH	2.19	0.61
9:OJ:288:GLU:OE1	9:OJ:292:GLN:NE2	2.34	0.61
8:PE:158:SER:HG	8:PE:166:LYS:HZ1	1.45	0.61
8:QE:31:GLN:HG3	8:QE:33:ASP:HB3	1.82	0.61
8:QE:288:VAL:HG11	8:QE:328:VAL:HG12	1.81	0.61
9:QF:161:ASP:OD1	9:QF:162:ARG:NH1	2.34	0.61
9:QJ:250:LEU:O	9:QJ:254:ALA:HB2	2.00	0.61
9:QL:54:ALA:HA	9:RL:283:ALA:HB2	1.83	0.61
8:RC:27:GLU:HA	8:RC:361:THR:HG21	1.82	0.61
8:SA:271:THR:HB	8:SA:377:MET:HB3	1.82	0.61
9:VJ:102:ALA:HA	9:VJ:105:HIS:HB3	1.82	0.61
8:WC:154:MET:HE1	8:WC:194:THR:HG22	1.82	0.61
8:WI:311:LYS:NZ	8:WI:436:GLY:O	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:Y:120:VAL:HG12	47:Y:135:GLU:HG3	1.82	0.61
4:z:1428:ILE:O	4:z:1432:TRP:HB3	2.01	0.61
9:AF:429:THR:OG1	9:AF:431:GLU:O	2.19	0.61
16:Ax:141:GLY:O	8:EC:123:ARG:NH1	2.34	0.61
19:BQ:357:MET:HG2	19:BQ:361:ILE:HD11	1.81	0.61
14:Bb:73:PRO:HD2	33:Cy:343:HIS:CE1	2.35	0.61
21:Bj:122:ARG:HH22	21:Bj:132:ARG:HD3	1.65	0.61
27:Bs:382:ALA:HB3	64:ke:63:ARG:HH22	1.66	0.61
28:C7:456:GLU:OE2	44:EW:15:GLN:NE2	2.34	0.61
8:CA:8:HIS:HA	8:CA:138:PHE:HB2	1.82	0.61
2:CU:129:ASP:OD2	2:CU:134:HIS:NE2	2.33	0.61
33:Cq:60:ASN:ND2	33:Cr:341:GLU:OE2	2.30	0.61
9:DB:19:LYS:NZ	9:DB:223:GLY:O	2.34	0.61
9:DL:257:MET:HE3	9:DL:314:ALA:HB2	1.82	0.61
9:DN:117:LEU:HD12	9:DN:121:ARG:HH12	1.65	0.61
35:DZ:34:LEU:HD11	35:DZ:38:LYS:HD2	1.81	0.61
8:EG:33:ASP:O	8:EG:60:LYS:NZ	2.34	0.61
44:EW:88:THR:HG22	44:EZ:346:LYS:NZ	2.14	0.61
9:FL:2:ARG:HB2	9:FL:131:GLN:HB2	1.83	0.61
9:FN:109:GLY:O	9:FN:113:VAL:HB	2.01	0.61
8:GI:199:ASP:OD2	8:GI:256:GLN:NE2	2.33	0.61
8:GI:212:ILE:HD11	8:GI:300:ASN:HA	1.83	0.61
9:IB:19:LYS:HA	9:IB:22:GLU:HB2	1.82	0.61
9:IN:101:TRP:O	9:IN:105:HIS:HB2	2.00	0.61
9:JB:313:VAL:HG12	9:JB:349:VAL:HG13	1.82	0.61
9:KF:354:CYS:SG	9:KF:355:ASP:N	2.73	0.61
9:KH:237:THR:HG22	9:KH:250:LEU:HD21	1.83	0.61
9:LB:31:ASP:OD1	9:LB:31:ASP:N	2.34	0.61
9:LH:189:VAL:HG11	9:LH:378:PHE:HE2	1.64	0.61
8:MG:287:SER:N	8:MG:290:GLU:OE2	2.30	0.61
9:MH:2:ARG:HB3	9:MH:131:GLN:HB2	1.80	0.61
9:MH:375:GLN:HB2	9:MH:419:VAL:HG23	1.83	0.61
8:NA:129:CYS:SG	8:NA:130:THR:N	2.73	0.61
9:NJ:125:GLU:OE2	9:OJ:336:LYS:NZ	2.34	0.61
9:OB:180:VAL:HG13	9:OB:184:ASN:HD21	1.65	0.61
9:OH:2:ARG:HB3	9:OH:131:GLN:HG2	1.83	0.61
8:PG:212:ILE:HD11	8:PG:300:ASN:HA	1.82	0.61
9:QF:54:ALA:HA	9:RF:283:ALA:HB2	1.83	0.61
9:QF:204:ASN:OD1	69:QF:501:GDP:N2	2.34	0.61
8:QI:206:ASN:OD1	67:QI:501:GTP:N2	2.33	0.61
8:QI:286:LEU:HD11	8:QI:371:VAL:HG13	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RC:195:LEU:HD21	8:RC:428:LEU:HG	1.83	0.61
9:VL:139:LEU:HA	9:VL:145:SER:HB2	1.83	0.61
8:WM:169:PHE:HE1	8:WM:202:PHE:HD1	1.47	0.61
57:YL:48:MET:HB2	57:YL:51:SER:HB3	1.83	0.61
9:AB:132:GLY:HA3	9:AB:163:ILE:HG22	1.82	0.61
9:AD:324:LYS:HE3	8:AE:222:PRO:HD3	1.83	0.61
8:AI:142:GLY:O	8:AI:186:ASN:ND2	2.33	0.61
9:BD:30:ILE:HD11	9:BD:47:ILE:HD11	1.82	0.61
8:BK:103:TYR:HD2	8:BK:413:MET:HE1	1.66	0.61
19:BR:354:LEU:HD11	19:BR:440:ARG:HG3	1.83	0.61
28:C4:350:ARG:NH1	28:C4:353:GLU:OE2	2.31	0.61
8:CA:203:MET:HG3	8:CA:384:ILE:HD11	1.82	0.61
9:CB:245:GLN:O	8:CC:11:GLN:NE2	2.34	0.61
14:CO:219:ILE:HD11	8:EG:84:ARG:HB2	1.83	0.61
17:CR:43:VAL:HG11	8:JC:117:LEU:HD12	1.82	0.61
29:D0:411:CYS:SG	29:D1:148:ARG:NH2	2.74	0.61
8:DE:3:GLU:HA	8:DE:51:THR:HA	1.82	0.61
8:DM:188:ILE:HD11	8:DM:391:LEU:HD21	1.83	0.61
9:EH:8:GLN:HB2	9:EH:65:LEU:HA	1.83	0.61
44:ET:152:VAL:HG21	44:ET:179:GLU:HG2	1.82	0.61
8:FC:392:ASP:OD1	8:FC:422:ARG:NH1	2.33	0.61
8:FK:132:LEU:O	8:FK:164:LYS:NZ	2.34	0.61
8:GG:76:ASP:OD1	8:GG:76:ASP:N	2.33	0.61
9:GH:130:LEU:O	9:GH:162:ARG:NH1	2.33	0.61
9:HD:113:VAL:HA	9:HD:116:VAL:HG12	1.82	0.61
8:HE:408:TYR:HD1	8:HE:418:PHE:HZ	1.46	0.61
9:IF:5:VAL:HG23	9:IF:130:LEU:HD21	1.81	0.61
8:JE:167:LEU:HD23	8:JE:200:CYS:HB3	1.82	0.61
9:JF:347:ASN:ND2	8:JG:180:ALA:O	2.33	0.61
8:NE:147:SER:HG	8:NE:190:THR:HG1	1.47	0.61
8:NG:414:GLU:HG2	8:NG:416:GLY:H	1.65	0.61
8:NI:113:GLU:HG3	8:NI:114:ILE:HG12	1.83	0.61
8:NI:133:GLN:HB2	8:NI:252:LEU:HD12	1.81	0.61
9:O0:170:VAL:HG11	9:O0:377:LEU:HD11	1.82	0.61
8:OI:219:ILE:HG13	8:OI:222:PRO:HD3	1.81	0.61
9:PL:156:ARG:NH1	9:PL:195:ASN:OD1	2.34	0.61
8:QG:211:ASP:HA	8:QG:214:ARG:NH1	2.15	0.61
9:RL:210:ILE:O	9:RL:214:THR:OG1	2.18	0.61
9:SB:310:TYR:CE1	9:SB:313:VAL:HG12	2.36	0.61
8:SK:15:GLN:O	8:SK:228:ASN:ND2	2.34	0.61
8:TC:406:HIS:HA	8:TC:409:VAL:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UB:49:VAL:HG11	9:UB:241:ARG:HG2	1.83	0.61
9:VF:255:VAL:HA	8:VG:407:TRP:CZ2	2.36	0.61
9:WN:207:LEU:HG	9:WN:225:LEU:HD22	1.83	0.61
47:X:430:PHE:O	47:X:434:LYS:NZ	2.34	0.61
7:A8:205:ARG:O	7:A8:205:ARG:NH1	2.32	0.61
13:Ac:211:TYR:HA	13:Ac:214:LYS:HD3	1.83	0.61
15:Ar:53:ARG:NH2	32:Cm:15:GLU:OE2	2.31	0.61
22:BW:29:THR:HA	9:IB:1:MET:HE1	1.83	0.61
14:Bb:184:ARG:O	28:C6:89:THR:N	2.33	0.61
25:Bo:139:UNK:O	9:PF:320:ARG:NH1	2.34	0.61
2:Ck:42:ARG:HH12	2:Ck:49:GLN:HG2	1.65	0.61
29:D1:391:PRO:HB2	29:D1:426:ILE:HD11	1.83	0.61
43:E2:175:GLN:NE2	28:F2:118:GLU:OE1	2.31	0.61
29:EP:477:LYS:HE3	44:EW:112:GLY:HA2	1.83	0.61
42:F:523:ILE:HG23	61:h:94:LYS:HE2	1.82	0.61
28:F2:371:GLU:OE2	28:F3:121:ARG:NH1	2.33	0.61
8:FG:306:ASP:OD2	8:FG:308:ARG:NH2	2.33	0.61
9:JD:27:GLU:OE2	9:JD:241:ARG:NH1	2.30	0.61
8:JG:422:ARG:HH22	51:N:53:ARG:HH22	1.48	0.61
9:N0:272:PRO:HG3	9:N0:364:SER:HA	1.83	0.61
9:NB:25:SER:OG	9:NB:30:ILE:O	2.18	0.61
9:NH:101:TRP:HB3	9:NH:403:MET:HE1	1.81	0.61
8:OI:9:VAL:HG23	8:OI:68:VAL:HB	1.83	0.61
8:QE:111:GLY:HA2	8:QE:114:ILE:HG12	1.82	0.61
9:QF:247:ASN:ND2	8:QG:73:THR:OG1	2.24	0.61
8:QM:14:VAL:HG22	8:QM:67:PHE:HB3	1.82	0.61
8:RM:298:PRO:HA	8:RM:301:GLN:HE22	1.65	0.61
8:SC:276:ILE:HD11	8:SC:280:LYS:HB2	1.81	0.61
8:SC:289:ALA:O	8:SC:293:ASN:ND2	2.32	0.61
9:TB:304:ASP:HB3	9:TB:307:HIS:CE1	2.36	0.61
9:UD:193:VAL:HG12	9:UD:265:PHE:HZ	1.65	0.61
9:UJ:245:GLN:O	8:UK:11:GLN:NE2	2.33	0.61
9:VB:63:ALA:O	9:VB:89:ASN:ND2	2.34	0.61
9:VH:295:ASP:OD2	9:VH:297:LYS:NZ	2.33	0.61
59:a:196:ILE:HD13	59:b:523:LEU:HD22	1.82	0.61
60:g:423:VAL:HA	60:g:439:GLY:HA2	1.81	0.61
7:A7:195:PHE:CE1	8:SC:214:ARG:HG3	2.35	0.61
7:A7:215:LYS:NZ	8:RA:126:ALA:O	2.29	0.61
15:Ap:162:LYS:NZ	38:Dg:74:PRO:O	2.34	0.61
9:BH:362:LYS:HD3	14:BY:270:HIS:CE1	2.35	0.61
9:CB:312:THR:HG22	9:CB:370:ASN:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CK:2:ARG:HB2	8:CK:242:LEU:HD23	1.82	0.61
8:CK:111:GLY:O	8:CK:115:VAL:HB	2.01	0.61
8:CM:39:ASP:OD1	48:L:82:TYR:OH	2.19	0.61
32:Cn:248:GLN:NE2	33:Cq:241:GLU:HG2	2.15	0.61
9:DN:271:ALA:HB2	9:DN:293:MET:HE2	1.83	0.61
29:DP:179:ARG:HD3	29:DP:328:PHE:HE2	1.65	0.61
29:EA:239:ILE:HG12	29:EA:320:LEU:HD23	1.82	0.61
8:EE:1:MET:SD	8:EE:1:MET:N	2.74	0.61
8:EG:215:ARG:NH2	8:EG:300:ASN:OD1	2.33	0.61
8:EG:348:PRO:HD2	9:EH:388:MET:HE3	1.83	0.61
8:EK:274:PRO:HG3	8:EK:374:ALA:HA	1.82	0.61
8:EK:377:MET:HE2	8:EK:379:SER:HB3	1.83	0.61
29:EP:204:ARG:HG3	29:EP:467:ILE:HD11	1.83	0.61
9:FH:27:GLU:OE2	9:FH:241:ARG:NH1	2.34	0.61
8:GG:326:LYS:HE3	9:GH:220:PRO:HG2	1.81	0.61
9:ID:314:ALA:HB3	9:ID:368:ILE:HB	1.83	0.61
8:JC:14:VAL:HG11	8:JC:75:VAL:HG22	1.83	0.61
9:LL:192:LEU:O	9:LL:196:THR:HG22	2.00	0.61
8:NI:301:GLN:HE21	8:NI:307:PRO:HG2	1.66	0.61
9:OH:4:ILE:O	9:OH:62:ARG:NH1	2.33	0.61
9:OL:406:MET:SD	9:OL:406:MET:N	2.74	0.61
8:PG:8:HIS:HA	8:PG:138:PHE:HB2	1.82	0.61
8:PG:166:LYS:N	8:PG:199:ASP:OD2	2.33	0.61
8:RA:258:ASN:HB2	8:RA:352:LYS:HE2	1.81	0.61
9:RF:215:LEU:HB3	9:RF:217:LEU:HD13	1.83	0.61
9:SD:330:MET:HE2	9:SD:349:VAL:HG22	1.82	0.61
9:TL:245:GLN:O	8:TM:11:GLN:NE2	2.34	0.61
8:TM:98:ASP:O	8:TM:105:ARG:NE	2.34	0.61
9:UF:277:GLY:HA2	59:c:234:ARG:HH22	1.65	0.61
9:UJ:293:MET:HE2	9:UJ:367:PHE:HB2	1.82	0.61
8:WE:252:LEU:HA	8:WE:255:PHE:HE1	1.65	0.61
9:WJ:269:GLY:HA3	9:WJ:293:MET:HE1	1.83	0.61
56:XG:14:LEU:HD21	56:XG:47:LEU:HD12	1.83	0.61
59:c:319:GLU:OE1	59:c:322:ARG:NH1	2.33	0.61
7:A4:230:ARG:O	8:QI:96:LYS:NZ	2.33	0.61
11:AU:459:GLN:OE1	11:AU:462:ARG:NH2	2.34	0.61
12:AV:37:MET:HB2	12:AV:47:LEU:HB2	1.82	0.61
13:Aa:570:GLU:O	13:Aa:574:ASN:ND2	2.33	0.61
17:B4:229:ARG:O	44:ET:287:GLN:NE2	2.34	0.61
9:BB:2:ARG:NH1	9:BB:249:ASP:OD2	2.33	0.61
19:BR:113:MET:HB3	39:Dk:119:TYR:HD2	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bz:247:LEU:HD21	18:Bz:253:ILE:HD12	1.83	0.61
28:C9:446:GLN:HE22	28:F3:285:HIS:H	1.48	0.61
9:CH:257:MET:HE1	9:CH:314:ALA:HB2	1.81	0.61
2:CV:51:GLN:HA	2:CV:71:LEU:HD21	1.83	0.61
2:Cd:34:ARG:HE	2:Cd:40:LYS:HZ3	1.47	0.61
29:D4:224:MET:SD	29:D4:334:GLN:NE2	2.74	0.61
9:DB:292:GLN:HG2	9:DB:298:ASN:HD22	1.66	0.61
9:DB:389:PHE:HE1	9:DB:395:LEU:HD21	1.66	0.61
8:DG:196:GLU:OE2	8:DG:264:ARG:NH1	2.34	0.61
38:Dh:136:LEU:HB2	38:Dh:151:PHE:HB2	1.83	0.61
8:EK:27:GLU:OE1	8:EK:243:ARG:NH2	2.34	0.61
9:GH:140:GLY:O	9:GH:184:ASN:ND2	2.34	0.61
9:GN:213:ARG:HD2	9:GN:297:LYS:HD2	1.83	0.61
9:HB:314:ALA:HB3	9:HB:368:ILE:HB	1.82	0.61
8:JK:90:GLU:OE1	8:MK:280:LYS:HE2	2.00	0.61
8:KE:69:ASP:OD2	8:KE:71:GLU:N	2.29	0.61
8:KE:175:PRO:HB3	8:KE:390:ARG:HE	1.66	0.61
9:MB:293:MET:HG2	9:MB:367:PHE:HB2	1.83	0.61
9:MF:103:LYS:HG2	9:MF:108:GLU:HG2	1.83	0.61
8:NA:142:GLY:HA2	8:NA:183:GLU:HG2	1.81	0.61
9:ND:86:ARG:HH22	9:OD:281:TYR:HB2	1.65	0.61
8:NE:279:GLU:N	8:NE:279:GLU:OE1	2.33	0.61
9:NJ:309:ARG:H	9:NJ:372:THR:HG22	1.66	0.61
9:OL:271:ALA:HB2	9:OL:293:MET:HE2	1.83	0.61
8:PA:169:PHE:CE1	8:PA:235:VAL:HG12	2.36	0.61
9:PD:15:GLN:NE2	69:PD:501:GDP:N7	2.49	0.61
8:PG:335:ILE:HD13	8:PG:338:LYS:HZ1	1.65	0.61
8:QG:296:PHE:HD2	8:QG:377:MET:HE1	1.66	0.61
8:QI:203:MET:HE1	8:QI:384:ILE:HG21	1.82	0.61
9:RB:94:GLN:OE1	9:RB:94:GLN:N	2.32	0.61
9:RL:367:PHE:HE2	9:RL:369:GLY:HA3	1.66	0.61
8:SE:90:GLU:OE2	8:SE:121:ARG:NE	2.33	0.61
9:TF:325:GLU:OE2	8:TG:221:ARG:NH1	2.34	0.61
9:UF:168:SER:HB3	9:UF:201:CYS:HA	1.81	0.61
8:VG:88:HIS:HB3	8:VG:91:GLN:HB2	1.83	0.61
8:VG:317:MET:SD	8:VG:317:MET:N	2.74	0.61
9:WD:204:ASN:OD1	69:WD:501:GDP:N2	2.34	0.61
9:WL:265:PHE:HB3	9:WL:374:ILE:HD13	1.81	0.61
60:e:540:ILE:HG22	60:e:541:ARG:HG2	1.82	0.61
4:3:1444:GLU:HG3	4:3:1446:GLY:H	1.66	0.60
8:AK:259:LEU:HD21	8:AK:316:CYS:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ac:217:ARG:NE	8:CE:41:THR:OG1	2.33	0.60
16:Ax:148:GLU:O	16:Ax:149:ARG:NH1	2.34	0.60
8:BK:11:GLN:HG3	8:BK:74:VAL:HG21	1.82	0.60
9:CF:314:ALA:HB3	9:CF:368:ILE:HB	1.82	0.60
9:CH:245:GLN:O	8:CI:11:GLN:NE2	2.32	0.60
2:Cd:91:THR:O	2:Cd:94:THR:OG1	2.18	0.60
8:EC:203:MET:HG3	8:EC:303:VAL:HG21	1.82	0.60
9:FB:317:PHE:HB2	9:FB:353:VAL:HG12	1.83	0.60
8:FK:326:LYS:NZ	8:FK:327:ASP:OD1	2.33	0.60
9:GH:67:ASP:OD1	9:GH:69:GLU:N	2.24	0.60
9:IB:44:LEU:HD22	9:IB:47:ILE:HD13	1.83	0.60
8:II:216:ASN:ND2	8:II:300:ASN:OD1	2.34	0.60
9:IL:103:LYS:NZ	9:IL:108:GLU:OE1	2.34	0.60
9:KJ:48:ASN:O	9:KJ:62:ARG:NH2	2.34	0.60
9:LL:276:ARG:NH2	47:Y:14:GLY:O	2.34	0.60
9:ND:3:GLU:HG3	9:ND:127:CYS:HB2	1.82	0.60
9:O0:221:THR:HG23	9:O0:223:GLY:H	1.65	0.60
8:QG:339:ARG:O	8:QG:339:ARG:NH1	2.29	0.60
9:RD:51:TYR:O	9:RD:62:ARG:NH2	2.33	0.60
9:SD:358:PRO:HB2	9:SD:361:LEU:HD12	1.83	0.60
8:SK:399:TYR:O	8:SK:402:ARG:NH2	2.34	0.60
9:TB:334:GLN:NE2	9:TB:347:ASN:OD1	2.34	0.60
8:TE:3:GLU:HG3	8:TE:129:CYS:HB3	1.82	0.60
9:TF:191:GLN:OE1	9:TF:195:ASN:ND2	2.33	0.60
9:TH:375:GLN:O	9:TH:379:LYS:HB3	2.01	0.60
9:TL:354:CYS:SG	9:TL:355:ASP:N	2.74	0.60
8:VI:258:ASN:HD21	9:VJ:179:VAL:H	1.49	0.60
9:VL:6:HIS:ND1	9:VL:134:GLN:NE2	2.42	0.60
9:VL:236:VAL:HG22	9:VL:368:ILE:HD11	1.83	0.60
9:WD:322:SER:HB3	65:t:147:ILE:HG13	1.81	0.60
9:WD:375:GLN:HE22	9:WD:419:VAL:HA	1.65	0.60
8:WE:2:ARG:NH2	8:WE:47:ASP:OD2	2.31	0.60
8:WG:241:SER:OG	8:WG:250:VAL:O	2.19	0.60
9:WN:387:ALA:HA	9:WN:390:ARG:HE	1.66	0.60
47:Y:472:VAL:HG11	47:Y:498:VAL:HG13	1.83	0.60
58:Z:58:ILE:O	66:u:328:LYS:NZ	2.34	0.60
63:k:47:ILE:HA	63:k:100:ARG:HB2	1.82	0.60
9:AH:314:ALA:HB3	9:AH:368:ILE:HB	1.82	0.60
13:Ab:353:LYS:HD3	48:K:75:VAL:HG11	1.83	0.60
15:Ar:20:PRO:HB2	8:KG:84:ARG:HH22	1.66	0.60
8:BE:338:LYS:HZ1	8:BE:341:ILE:HD12	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BV:114:ASP:HB3	21:BV:117:ALA:HB2	1.81	0.60
9:CD:276:ARG:NH1	47:X:319:GLU:OE2	2.34	0.60
9:CJ:207:LEU:HB3	9:CJ:225:LEU:HD22	1.83	0.60
17:CS:12:ILE:O	9:NJ:320:ARG:NH2	2.34	0.60
2:Cc:127:SER:HB2	2:Cc:130:GLU:HB2	1.83	0.60
33:Ct:118:THR:OG1	44:EU:410:MET:SD	2.60	0.60
29:D1:469:LYS:O	29:D1:473:MET:HB2	2.01	0.60
9:DB:236:VAL:HG13	9:DB:237:THR:HG23	1.83	0.60
9:DB:267:MET:HE1	9:DB:305:PRO:HD3	1.83	0.60
8:DI:93:ILE:HG13	8:DI:118:VAL:HG12	1.84	0.60
35:DZ:33:GLN:HG3	8:JI:365:GLY:HA2	1.82	0.60
8:EC:316:CYS:HB2	8:EC:378:LEU:HB2	1.81	0.60
9:EN:376:GLU:HA	9:EN:379:LYS:HZ3	1.65	0.60
9:FN:299:MET:HE1	9:FN:367:PHE:HE1	1.66	0.60
8:IC:223:THR:HG23	8:IC:225:THR:H	1.66	0.60
8:IG:417:GLU:HA	8:IG:420:GLU:HG2	1.83	0.60
9:JJ:58:LYS:NZ	9:MJ:280:GLN:HB2	2.16	0.60
8:ME:254:GLU:HG2	9:MF:98:GLY:HA2	1.82	0.60
9:OH:314:ALA:HB3	9:OH:368:ILE:HB	1.83	0.60
9:PB:19:LYS:HE3	9:PB:226:ASN:HB2	1.83	0.60
8:PG:53:PHE:HB3	8:PG:61:HIS:HB3	1.83	0.60
9:PL:207:LEU:HB3	9:PL:225:LEU:HD22	1.83	0.60
9:QD:26:ASP:O	9:QD:359:ARG:NH1	2.34	0.60
9:RB:284:LEU:HD23	9:RB:362:LYS:HG2	1.82	0.60
8:RG:224:TYR:O	8:RG:228:ASN:HB2	2.01	0.60
9:RH:247:ASN:ND2	8:RI:71:GLU:OE1	2.33	0.60
8:RI:313:MET:SD	8:RI:313:MET:N	2.73	0.60
9:SF:69:GLU:HG2	9:SF:71:GLY:H	1.66	0.60
8:TE:377:MET:HE2	8:TE:379:SER:HB3	1.83	0.60
8:TG:224:TYR:O	8:TG:228:ASN:ND2	2.34	0.60
9:WN:27:GLU:OE2	9:WN:241:ARG:NH1	2.35	0.60
7:A7:116:PHE:O	8:SG:214:ARG:NH2	2.34	0.60
9:AH:423:GLN:NE2	57:YI:61:ALA:H	1.99	0.60
12:AW:96:ALA:HB3	12:AW:161:MET:HG2	1.84	0.60
9:BB:248:ALA:HA	9:BB:252:LYS:HD3	1.82	0.60
9:CJ:260:PHE:HD2	9:CJ:263:LEU:HD22	1.65	0.60
2:Cc:55:GLU:HG3	2:Cc:56:HIS:CD2	2.36	0.60
33:Cr:202:LYS:HA	44:EV:212:GLU:OE1	2.01	0.60
33:Ct:361:ASP:HA	44:EV:236:THR:HG21	1.83	0.60
33:Cw:8:PRO:HD2	44:EY:327:ARG:HH21	1.66	0.60
33:Cw:170:GLN:NE2	44:EX:143:ASP:O	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:436:ARG:NH1	29:D2:122:ASP:OD1	2.25	0.60
8:DC:212:ILE:HD11	8:DC:300:ASN:HA	1.83	0.60
9:DH:136:THR:HG23	9:DH:167:PHE:HB2	1.81	0.60
8:EK:258:ASN:HD22	8:EK:352:LYS:HG3	1.67	0.60
29:EP:125:ARG:NH2	29:EP:128:GLN:OE1	2.33	0.60
9:HF:111:GLU:OE2	64:ke:16:LYS:N	2.35	0.60
8:JM:71:GLU:N	8:JM:71:GLU:OE1	2.34	0.60
8:KK:437:VAL:O	9:KL:391:ARG:NH2	2.32	0.60
8:LM:254:GLU:HG2	9:LN:98:GLY:HA2	1.83	0.60
9:LN:257:MET:SD	9:LN:312:THR:OG1	2.58	0.60
9:PD:237:THR:HG22	9:PD:250:LEU:HD21	1.82	0.60
9:PF:47:ILE:HG21	9:PF:59:TYR:HE1	1.65	0.60
9:PL:271:ALA:O	9:PL:292:GLN:NE2	2.30	0.60
8:QA:56:THR:HA	8:RA:285:GLN:HB2	1.83	0.60
8:QE:317:MET:HE3	8:QE:377:MET:HE2	1.83	0.60
9:QH:7:LEU:HD23	9:QH:135:LEU:HD12	1.82	0.60
9:QJ:1:MET:N	9:QJ:3:GLU:OE2	2.27	0.60
8:SC:168:GLU:HB3	8:SC:201:ALA:HA	1.84	0.60
9:SD:25:SER:HG	9:SD:51:TYR:HH	1.47	0.60
9:SJ:344:TRP:HE3	8:SK:401:LYS:HZ3	1.48	0.60
8:SK:320:ARG:HB2	8:SK:374:ALA:HB3	1.83	0.60
8:UC:292:THR:OG1	8:UC:319:TYR:OH	2.19	0.60
9:VB:8:GLN:HG3	9:VB:65:LEU:HD23	1.83	0.60
57:YG:230:GLU:OE1	57:YG:234:ARG:NE	2.34	0.60
2:0c:127:SER:OG	2:0c:128:CYS:N	2.33	0.60
2:0i:130:GLU:HA	2:0i:134:HIS:HB2	1.84	0.60
7:A1:103:PRO:HD2	8:PG:338:LYS:HD3	1.83	0.60
9:BF:230:SER:HA	9:BF:233:MET:HB2	1.83	0.60
8:BI:255:PHE:O	8:BI:259:LEU:HB2	2.01	0.60
28:C7:106:ASN:ND2	28:C9:458:ASP:OD2	2.34	0.60
67:CD:502:GTP:N2	8:CE:206:ASN:OD1	2.35	0.60
9:CF:189:VAL:HA	9:CF:192:LEU:HB2	1.84	0.60
8:CI:75:VAL:HG12	8:CI:79:ARG:HD2	1.84	0.60
8:CK:140:SER:HA	8:CK:171:ILE:HG12	1.83	0.60
32:Cn:248:GLN:HE21	33:Cq:241:GLU:CG	2.13	0.60
29:D1:402:ARG:O	29:D1:405:ARG:NH1	2.33	0.60
29:D3:402:ARG:NH2	29:D6:267:ASP:OD1	2.35	0.60
8:DC:68:VAL:HG12	8:DC:93:ILE:HB	1.82	0.60
8:DC:175:PRO:HB3	8:DC:390:ARG:HH11	1.65	0.60
8:DK:9:VAL:HG11	8:DK:150:ALA:HB2	1.83	0.60
44:EV:327:ARG:NE	44:EV:331:ASP:OD2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EY:170:ASP:OD1	44:EY:170:ASP:N	2.35	0.60
42:F:605:GLN:HE21	8:JM:278:ALA:HB2	1.67	0.60
42:F:728:LEU:HD22	9:IN:356:ILE:HG23	1.83	0.60
9:FH:67:ASP:OD1	9:FH:69:GLU:N	2.29	0.60
8:GK:348:PRO:HD2	9:GL:388:MET:HE2	1.83	0.60
9:ID:207:LEU:HB3	9:ID:225:LEU:HD22	1.82	0.60
9:LF:210:ILE:HD11	9:LF:298:ASN:HA	1.83	0.60
9:ND:354:CYS:SG	9:ND:355:ASP:N	2.74	0.60
9:NF:272:PRO:HG3	9:NF:364:SER:HA	1.82	0.60
9:RD:322:SER:H	8:RE:221:ARG:HH22	1.49	0.60
9:SH:237:THR:HG23	9:SH:240:LEU:HD12	1.82	0.60
9:TJ:314:ALA:HB3	9:TJ:368:ILE:HB	1.83	0.60
9:UJ:11:GLN:NE2	69:UJ:501:GDP:O1A	2.35	0.60
9:VD:267:MET:HE1	9:VD:305:PRO:HG3	1.82	0.60
8:VK:53:PHE:HB3	8:VK:61:HIS:HB3	1.83	0.60
9:VL:207:LEU:HG	9:VL:225:LEU:HD22	1.82	0.60
62:i:75:PRO:HG2	62:i:216:LYS:HZ3	1.65	0.60
62:i:111:CYS:HB3	62:i:183:LEU:HB2	1.83	0.60
63:n:91:ILE:HG12	63:n:101:THR:HG21	1.83	0.60
8:AE:187:SER:O	8:AE:191:THR:OG1	2.17	0.60
9:AH:107:THR:HG21	9:AH:401:GLU:HB3	1.83	0.60
9:CD:66:VAL:HG12	9:CD:147:MET:HE3	1.83	0.60
2:CX:42:ARG:NH2	2:CX:53:TYR:OH	2.34	0.60
2:Cf:115:ARG:NH2	2:Cf:131:ALA:O	2.34	0.60
8:DI:295:CYS:HB3	8:DI:377:MET:HE2	1.84	0.60
29:DQ:470:GLU:HA	29:DQ:473:MET:HG2	1.82	0.60
44:EX:75:GLU:OE2	44:EX:78:ARG:NH2	2.35	0.60
9:FH:350:LYS:HG2	8:FI:180:ALA:HA	1.84	0.60
9:FJ:33:THR:O	9:FJ:58:LYS:NZ	2.34	0.60
45:G:274:LYS:NZ	45:G:314:ASP:OD1	2.20	0.60
8:GI:224:TYR:CE1	8:GI:225:THR:HG23	2.37	0.60
8:GM:274:PRO:HG3	8:GM:374:ALA:HA	1.83	0.60
8:JK:3:GLU:HG2	8:JK:129:CYS:HB2	1.82	0.60
9:KL:248:ALA:HA	9:KL:252:LYS:HD2	1.83	0.60
8:MG:292:THR:HG21	8:MG:331:ALA:HB1	1.83	0.60
9:OL:314:ALA:HB3	9:OL:368:ILE:HB	1.83	0.60
9:PB:156:ARG:NH1	9:PB:162:ARG:O	2.34	0.60
8:QK:211:ASP:OD1	8:QK:211:ASP:N	2.34	0.60
9:RB:245:GLN:O	8:RC:11:GLN:NE2	2.35	0.60
9:RB:257:MET:SD	9:RB:312:THR:OG1	2.53	0.60
8:RC:217:LEU:HD21	8:RC:368:LEU:HD12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SD:42:LEU:HA	9:SD:45:GLU:HB2	1.84	0.60
8:VE:259:LEU:HD21	8:VE:378:LEU:HB3	1.82	0.60
9:WF:207:LEU:HB3	9:WF:225:LEU:HD22	1.83	0.60
8:WM:27:GLU:OE1	8:WM:243:ARG:NH1	2.31	0.60
7:A2:35:THR:OG1	7:A2:41:HIS:NE2	2.33	0.60
8:AI:326:LYS:HE2	9:AJ:219:THR:HA	1.82	0.60
11:AU:415:ARG:HD3	11:AU:419:GLN:NE2	2.16	0.60
15:Ar:122:ARG:HH12	32:Cn:248:GLN:CD	2.08	0.60
16:At:221:GLY:O	8:EK:123:ARG:NH1	2.34	0.60
7:Aw:53:PHE:HE1	9:OD:294:PHE:HD2	1.49	0.60
8:BA:8:HIS:HE1	8:BA:21:TRP:HE1	1.48	0.60
9:BB:357:PRO:O	14:Bb:271:TRP:NE1	2.35	0.60
2:Ce:34:ARG:NH1	2:Ce:42:ARG:O	2.35	0.60
9:EB:324:LYS:HB2	8:EC:221:ARG:HA	1.82	0.60
8:FC:381:THR:O	8:FC:432:TYR:OH	2.20	0.60
8:GE:349:THR:OG1	9:GF:176:SER:OG	2.16	0.60
9:IJ:107:THR:OG1	9:IJ:401:GLU:OE2	2.14	0.60
48:K:118:THR:HG23	48:K:120:LEU:H	1.65	0.60
8:KG:139:HIS:NE2	8:KG:168:GLU:OE2	2.35	0.60
9:KL:132:GLY:HA3	9:KL:163:ILE:HG22	1.82	0.60
50:L1:26:SER:OG	50:L1:27:ALA:N	2.34	0.60
9:LN:354:CYS:SG	9:LN:355:ASP:N	2.74	0.60
9:MD:246:LEU:HD11	67:ME:501:GTP:H5"	1.84	0.60
9:MH:156:ARG:NH2	9:MH:197:ASP:OD1	2.35	0.60
8:MK:64:ARG:NH1	8:MK:129:CYS:SG	2.75	0.60
8:MK:195:LEU:HD11	8:MK:428:LEU:HD22	1.84	0.60
9:NB:289:LEU:HG	9:NB:363:MET:HE1	1.84	0.60
8:NI:7:ILE:HD11	8:NI:122:ILE:HD12	1.82	0.60
8:NK:408:TYR:HB3	8:NK:413:MET:HG2	1.83	0.60
52:P:69:GLU:HB2	52:P:73:ILE:HD11	1.84	0.60
8:PE:305:CYS:SG	8:PE:306:ASP:N	2.74	0.60
9:QB:54:ALA:HA	9:RB:283:ALA:HB2	1.84	0.60
8:QE:129:CYS:SG	8:QE:130:THR:N	2.74	0.60
9:QH:382:SER:HB2	9:QH:415:MET:HE1	1.84	0.60
9:RD:237:THR:HB	9:RD:240:LEU:HD23	1.82	0.60
8:RE:286:LEU:O	8:RE:373:ARG:NH1	2.35	0.60
9:RL:48:ASN:O	9:RL:62:ARG:NH2	2.34	0.60
9:SJ:167:PHE:CE1	9:SJ:233:MET:HB3	2.37	0.60
9:TD:329:GLN:HA	9:TD:332:ASN:HB2	1.84	0.60
9:TH:272:PRO:HG3	9:TH:364:SER:HA	1.84	0.60
9:UD:318:ARG:HG2	9:UD:358:PRO:HD3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:27:GLU:OE2	8:UE:243:ARG:NH1	2.35	0.60
9:UN:74:ASP:OD1	9:UN:74:ASP:N	2.35	0.60
9:VN:314:ALA:HB3	9:VN:368:ILE:HB	1.83	0.60
8:WC:319:TYR:HB3	8:WC:323:VAL:HG21	1.84	0.60
8:WI:320:ARG:HB3	8:WI:374:ALA:HB3	1.82	0.60
8:WM:212:ILE:HD11	8:WM:300:ASN:HA	1.84	0.60
60:g:107:MET:HE2	60:g:148:ARG:HH12	1.65	0.60
7:A1:9:THR:O	7:A1:11:ARG:NH1	2.35	0.60
7:A7:215:LYS:NZ	8:RA:129:CYS:O	2.35	0.60
7:A8:214:LEU:HD13	8:SG:164:LYS:HE2	1.84	0.60
8:AC:431:ASP:OD1	56:XL:102:ARG:NH2	2.33	0.60
8:AM:271:THR:HB	8:AM:377:MET:HB3	1.83	0.60
13:Aa:481:LYS:NZ	13:Aa:482:SER:O	2.34	0.60
8:CC:381:THR:HG22	8:CC:383:ALA:H	1.65	0.60
8:CG:133:GLN:HB3	8:CG:252:LEU:HD12	1.84	0.60
33:Cq:289:GLU:OE2	33:Cs:35:SER:OG	2.19	0.60
29:D4:280:ILE:HG23	29:D5:393:LYS:HZ1	1.66	0.60
29:DQ:363:GLN:HG2	29:DQ:454:LEU:HD21	1.82	0.60
29:DX:244:ARG:HH21	29:DX:245:ASP:HB2	1.66	0.60
29:DX:310:SER:HA	29:DX:313:MET:HE3	1.83	0.60
9:EB:256:ASN:HB3	8:EC:181:VAL:HG22	1.83	0.60
9:EJ:88:ASP:OD1	9:FJ:297:LYS:NZ	2.33	0.60
44:EZ:249:GLU:OE2	28:F2:262:GLN:NE2	2.34	0.60
28:F2:419:ARG:NE	28:F3:141:ASP:OD1	2.34	0.60
9:FB:4:ILE:HG12	9:FB:131:GLN:HE22	1.67	0.60
9:FH:10:GLY:HA2	9:FH:143:THR:HG23	1.83	0.60
8:FK:137:ILE:HG21	8:FK:154:MET:HE1	1.83	0.60
8:FK:297:GLU:OE2	8:FK:300:ASN:ND2	2.35	0.60
8:GI:93:ILE:HD11	8:GI:121:ARG:HG3	1.84	0.60
8:GI:128:LEU:HD11	8:HI:285:GLN:HE22	1.66	0.60
9:HD:230:SER:HA	9:HD:233:MET:HB2	1.83	0.60
9:HJ:46:ARG:NH2	8:HK:72:PRO:O	2.35	0.60
9:HN:331:LEU:HG	8:HO:177:VAL:HG12	1.84	0.60
8:JC:238:ILE:HD11	8:JC:378:LEU:HD21	1.84	0.60
8:JG:97:GLU:HG2	8:JG:105:ARG:HH22	1.66	0.60
9:JH:190:HIS:CD2	9:JH:414:ASN:HD22	2.20	0.60
8:JI:211:ASP:OD1	8:JI:214:ARG:NH2	2.34	0.60
9:JN:306:ARG:HA	9:JN:340:TYR:CE1	2.36	0.60
8:KG:292:THR:HG21	8:KG:331:ALA:HB1	1.81	0.60
8:LE:151:SER:HA	8:LE:193:THR:HG21	1.82	0.60
9:MH:248:ALA:HA	9:MH:252:LYS:HD2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MM:402:ARG:NH1	8:MM:415:GLU:OE2	2.34	0.60
9:NB:170:VAL:HG11	9:NB:377:LEU:HD11	1.84	0.60
9:O0:236:VAL:HG12	9:O0:368:ILE:HD11	1.83	0.60
8:PA:352:LYS:HD2	8:PA:353:VAL:N	2.16	0.60
8:PE:396:ASP:OD1	8:PE:422:ARG:NH2	2.31	0.60
8:QC:289:ALA:O	8:QC:293:ASN:ND2	2.35	0.60
8:QG:5:ILE:HD12	8:QG:125:LEU:HD23	1.82	0.60
9:QH:166:THR:HG1	9:QH:199:THR:HG1	1.48	0.60
9:RB:68:LEU:HB3	9:RB:96:GLY:HA2	1.83	0.60
9:RD:86:ARG:NH1	9:SD:281:TYR:O	2.35	0.60
9:SD:39:ASP:OD1	9:SD:39:ASP:N	2.35	0.60
9:SH:230:SER:HA	9:SH:233:MET:HE3	1.84	0.60
9:TB:280:GLN:NE2	46:o:523:LEU:HD21	2.13	0.60
9:TF:140:GLY:O	9:TF:184:ASN:ND2	2.35	0.60
9:TF:162:ARG:HD3	9:TF:163:ILE:H	1.66	0.60
9:UB:65:LEU:HD12	9:UB:90:PHE:HE1	1.66	0.60
9:UH:237:THR:HG22	9:UH:250:LEU:HD21	1.83	0.60
8:UM:57:GLY:O	59:b:257:ARG:NH2	2.34	0.60
8:VK:402:ARG:NH1	8:VK:415:GLU:OE2	2.34	0.60
62:i:258:GLU:N	62:i:258:GLU:OE1	2.33	0.60
2:0C:146:LEU:HB3	2:0C:150:LYS:NZ	2.16	0.60
3:1:116:PHE:HA	3:1:119:ILE:HG22	1.83	0.60
8:AC:326:LYS:HD3	9:AD:220:PRO:HD2	1.82	0.60
7:Au:250:VAL:HG22	9:GL:216:LYS:HB3	1.84	0.60
8:DG:11:GLN:HG2	8:DG:74:VAL:HG21	1.83	0.60
29:DU:49:ASN:O	29:DU:52:ARG:NH1	2.35	0.60
39:Dj:50:MET:HE3	39:Dj:52:TRP:HE1	1.67	0.60
8:IM:80:THR:HG21	62:j:11:ARG:HH21	1.66	0.60
9:JB:2:ARG:HG3	9:JB:131:GLN:HB2	1.83	0.60
9:LD:152:ILE:HG23	9:LD:164:MET:HE3	1.83	0.60
8:LE:90:GLU:N	8:LE:90:GLU:OE1	2.34	0.60
8:LM:280:LYS:NZ	8:MM:90:GLU:OE1	2.28	0.60
9:ND:210:ILE:HD11	9:ND:298:ASN:HA	1.82	0.60
9:PB:8:GLN:NE2	9:PB:64:VAL:O	2.28	0.60
9:PD:237:THR:OG1	9:PD:241:ARG:NH1	2.30	0.60
8:QC:313:MET:HE3	8:QC:344:VAL:HG21	1.83	0.60
8:QG:138:PHE:HZ	8:QG:235:VAL:HG21	1.65	0.60
8:RA:259:LEU:HD13	8:RA:268:PRO:HG3	1.83	0.60
8:RE:3:GLU:HA	8:RE:51:THR:HA	1.83	0.60
8:RI:384:ILE:HD12	8:RI:388:TRP:CH2	2.37	0.60
8:SA:254:GLU:OE2	9:SB:99:ASN:ND2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SC:141:PHE:CE1	8:SC:170:ALA:HB1	2.37	0.60
9:SJ:200:TYR:HE2	9:SJ:368:ILE:HD12	1.67	0.60
9:UJ:240:LEU:HD21	9:UJ:249:ASP:HB2	1.84	0.60
8:WM:279:GLU:OE1	60:g:461:LYS:NZ	2.27	0.60
47:Y:244:ARG:HA	47:Y:265:HIS:HB3	1.82	0.60
60:g:402:ARG:HG2	60:g:414:VAL:HG22	1.83	0.60
2:0E:30:LEU:HD13	2:0E:44:ILE:HD13	1.83	0.60
2:0i:69:MET:O	2:0i:73:ILE:HD12	2.01	0.60
2:0k:88:HIS:NE2	2:0k:91:THR:OG1	2.34	0.60
7:A1:20:MET:HE2	7:A1:20:MET:H	1.66	0.60
8:AG:372:GLN:HG2	20:BT:48:HIS:HB3	1.82	0.60
18:B5:243:ASP:OD1	59:c:109:ARG:NH2	2.35	0.60
8:BG:254:GLU:HA	8:BG:257:THR:HG22	1.84	0.60
8:CE:255:PHE:O	8:CE:259:LEU:HB2	2.02	0.60
8:CG:209:ILE:HA	8:CG:212:ILE:HG12	1.83	0.60
32:Co:130:ASP:OD2	32:Co:131:GLU:N	2.34	0.60
29:D1:396:GLN:HB3	29:D2:283:PHE:HB2	1.82	0.60
29:DQ:201:ARG:HG3	29:DQ:471:LYS:HZ3	1.66	0.60
39:Dj:79:SER:HB3	39:Dj:87:ARG:HH21	1.66	0.60
43:E3:90:ALA:HA	43:E3:93:ARG:HH12	1.67	0.60
8:EC:288:VAL:O	8:EC:292:THR:OG1	2.17	0.60
8:FE:102:ASN:HB3	8:FE:105:ARG:HB2	1.84	0.60
9:HB:171:PRO:O	9:HB:380:ARG:NH2	2.27	0.60
8:HI:381:THR:HG22	8:HI:383:ALA:H	1.66	0.60
9:IL:86:ARG:HE	9:IL:88:ASP:HB2	1.67	0.60
9:LL:281:TYR:OH	9:ML:83:GLN:OE1	2.18	0.60
9:LL:293:MET:HG2	9:LL:367:PHE:HB2	1.83	0.60
9:N0:130:LEU:O	9:N0:162:ARG:NH1	2.35	0.60
8:NI:135:PHE:H	8:NI:166:LYS:HA	1.67	0.60
9:O0:114:ASP:OD1	9:O0:114:ASP:N	2.35	0.60
8:OE:345:ASP:OD2	8:OE:439:SER:OG	2.17	0.60
9:QB:74:ASP:OD1	9:QB:77:ARG:NH2	2.35	0.60
9:QB:105:HIS:ND1	9:QB:146:GLY:O	2.35	0.60
9:QD:15:GLN:HE22	9:QD:226:ASN:HB2	1.67	0.60
8:QE:126:ALA:HB1	8:QE:132:LEU:HD21	1.84	0.60
9:QH:16:ILE:HA	9:QH:226:ASN:HD21	1.66	0.60
8:QI:157:LEU:HG	8:QI:161:TYR:HE2	1.67	0.60
9:RD:309:ARG:N	9:RD:372:THR:OG1	2.29	0.60
8:RE:313:MET:N	8:RE:313:MET:SD	2.75	0.60
9:SB:386:THR:HG23	9:SB:390:ARG:HH22	1.67	0.60
9:SH:322:SER:H	8:SI:221:ARG:HH21	1.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TK:256:GLN:HE22	9:TL:397:TRP:HE1	1.49	0.60
8:UK:215:ARG:NH1	8:UK:299:ALA:O	2.32	0.60
9:VJ:234:SER:OG	9:VJ:241:ARG:NH2	2.34	0.60
9:WB:49:VAL:HG11	9:WB:241:ARG:HG2	1.84	0.60
8:WC:255:PHE:O	8:WC:259:LEU:HB2	2.02	0.60
9:WD:62:ARG:NH1	9:WD:127:CYS:SG	2.75	0.60
9:WF:347:ASN:ND2	8:WG:178:SER:OG	2.35	0.60
9:WF:354:CYS:SG	9:WF:355:ASP:N	2.75	0.60
9:AD:232:THR:HG21	9:AD:268:PRO:HB3	1.84	0.60
13:Aa:623:ARG:NH1	9:EL:55:THR:OG1	2.35	0.60
13:Aa:644:ILE:HG21	13:Aa:674:ILE:HD11	1.83	0.60
13:Ac:261:MET:HG3	9:CF:77:ARG:HD3	1.83	0.60
13:Ac:440:ILE:HG12	13:Ac:451:VAL:HG12	1.84	0.60
9:BF:317:PHE:HB2	9:BF:353:VAL:HG22	1.83	0.60
28:C4:150:VAL:HG12	28:C4:268:ASP:HB3	1.84	0.60
8:CE:335:ILE:HA	8:CE:338:LYS:HG2	1.84	0.60
8:CI:362:VAL:HG21	8:CI:370:LYS:HA	1.84	0.60
2:Cd:44:ILE:HB	2:Cd:138:VAL:HG11	1.84	0.60
33:Cv:169:ARG:NH1	43:E2:167:TYR:OH	2.35	0.60
33:Cx:183:LEU:HG	33:Cx:187:ARG:HH21	1.66	0.60
29:D3:191:LEU:HB2	29:D3:225:ILE:HG21	1.82	0.60
9:DB:407:GLU:HA	9:DB:410:GLU:HB3	1.83	0.60
8:DC:76:ASP:OD1	8:DC:79:ARG:NH2	2.35	0.60
9:DD:375:GLN:HE21	9:DD:419:VAL:HG13	1.67	0.60
8:EI:219:ILE:HG22	8:EI:222:PRO:HD3	1.83	0.60
44:EX:192:ARG:NH1	44:EZ:30:ALA:O	2.35	0.60
42:F:626:ASP:OD1	42:F:626:ASP:N	2.35	0.60
28:F2:319:ALA:HA	28:F2:322:ARG:HE	1.66	0.60
8:FK:243:ARG:HG3	8:FK:244:PHE:CD2	2.37	0.60
9:FN:3:GLU:HG3	9:FN:127:CYS:HB3	1.84	0.60
8:GK:50:ASN:O	8:GK:64:ARG:NH2	2.34	0.60
9:HD:51:TYR:O	9:HD:62:ARG:NH2	2.34	0.60
8:HI:178:SER:HB2	8:HI:183:GLU:HG3	1.84	0.60
9:HJ:228:LEU:HB3	9:HJ:300:MET:HE1	1.84	0.60
9:HN:296:ALA:HB3	9:HN:306:ARG:HH21	1.67	0.60
8:JK:90:GLU:N	8:JK:90:GLU:OE2	2.35	0.60
9:JL:306:ARG:NH1	51:O:12:GLU:O	2.35	0.60
8:ME:400:ALA:O	54:R:125:ARG:NH1	2.35	0.60
8:ME:427:ALA:O	8:ME:431:ASP:HB2	2.02	0.60
8:NC:60:LYS:NZ	8:NC:85:GLN:O	2.34	0.60
8:PI:11:GLN:HE22	67:PI:501:GTP:H8	1.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PK:392:ASP:OD1	8:PK:422:ARG:NH1	2.35	0.60
9:QD:178:THR:HB	9:QD:181:GLU:HG3	1.83	0.60
8:QM:9:VAL:HG23	8:QM:139:HIS:HB3	1.83	0.60
9:RB:318:ARG:HG2	9:RB:357:PRO:HA	1.83	0.60
9:RL:334:GLN:NE2	9:RL:348:ASN:OD1	2.35	0.60
8:RM:392:ASP:HA	8:RM:422:ARG:HH12	1.67	0.60
9:SB:67:ASP:OD1	9:SB:68:LEU:N	2.34	0.60
9:SB:345:ILE:HG23	8:SC:398:MET:HE2	1.84	0.60
8:SC:7:ILE:HB	8:SC:137:ILE:HD13	1.84	0.60
9:SH:247:ASN:OD1	8:SI:11:GLN:NE2	2.35	0.60
9:UL:2:ARG:HH21	9:UL:46:ARG:HH12	1.50	0.60
8:VM:154:MET:HE1	8:VM:194:THR:HG22	1.83	0.60
8:WE:425:LEU:HD12	8:WE:428:LEU:HB3	1.82	0.60
56:XH:7:GLN:HE22	56:XH:71:ILE:HA	1.67	0.60
6:A0:209:PRO:O	8:IC:214:ARG:NH2	2.34	0.59
11:AT:145:ARG:NH2	9:GH:35:THR:OG1	2.34	0.59
17:B9:12:ILE:HG22	9:NF:320:ARG:HH21	1.67	0.59
8:BA:64:ARG:NH1	8:BA:129:CYS:SG	2.75	0.59
8:BA:261:PRO:HG2	8:BA:313:MET:HE2	1.84	0.59
9:BD:375:GLN:HB2	9:BD:419:VAL:HG13	1.84	0.59
14:Bb:315:ARG:HH21	14:Bb:316:ARG:HE	1.50	0.59
24:Bh:107:ARG:NH1	9:GH:127:CYS:O	2.35	0.59
26:Bu:283:GLU:OE1	9:LF:320:ARG:NH2	2.34	0.59
29:DP:244:ARG:HA	29:DP:247:ARG:HH12	1.65	0.59
29:DS:290:ASP:OD1	29:DS:290:ASP:N	2.35	0.59
41:Dn:226:VAL:HG11	8:OE:159:VAL:HG12	1.84	0.59
9:EB:248:ALA:HA	9:EB:252:LYS:HD3	1.84	0.59
9:EL:311:LEU:O	9:EL:348:ASN:ND2	2.35	0.59
44:ET:189:LEU:HG	44:ET:285:ILE:HD11	1.84	0.59
9:FD:51:TYR:O	9:FD:62:ARG:NH2	2.34	0.59
9:FD:276:ARG:HH21	47:X:432:GLU:HG2	1.67	0.59
9:FH:300:MET:SD	9:FH:300:MET:N	2.74	0.59
8:GI:287:SER:OG	8:GI:290:GLU:OE1	2.18	0.59
8:HE:98:ASP:O	8:HE:105:ARG:NH1	2.35	0.59
8:HG:364:PRO:HB3	64:ke:84:TYR:HB2	1.84	0.59
9:IH:186:THR:HG22	9:IH:415:MET:HE2	1.84	0.59
9:JB:271:ALA:O	9:JB:292:GLN:NE2	2.33	0.59
8:KE:216:ASN:O	8:KE:280:LYS:NZ	2.21	0.59
50:L2:62:ARG:NH1	9:VN:55:THR:OG1	2.35	0.59
8:OA:209:ILE:HA	8:OA:212:ILE:HG12	1.84	0.59
9:PJ:260:PHE:HB2	9:PJ:263:LEU:HD13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QA:269:LEU:HD21	8:QA:384:ILE:HG21	1.84	0.59
9:QF:52:ASN:HD22	9:QF:60:VAL:HG23	1.67	0.59
9:QJ:10:GLY:HA2	9:QJ:143:THR:HG23	1.83	0.59
9:QL:354:CYS:SG	9:QL:355:ASP:N	2.75	0.59
9:RD:2:ARG:HB2	9:RD:131:GLN:HB2	1.83	0.59
8:RE:240:ALA:HB1	8:RE:320:ARG:HH21	1.67	0.59
8:RM:7:ILE:HD11	8:RM:122:ILE:HD11	1.82	0.59
8:SC:64:ARG:HG3	8:SC:125:LEU:HD22	1.83	0.59
8:SI:139:HIS:NE2	8:SI:168:GLU:OE1	2.35	0.59
8:TE:1:MET:SD	8:TE:1:MET:N	2.73	0.59
9:UD:257:MET:HE2	9:UD:266:PHE:HE1	1.67	0.59
8:UE:325:PRO:O	8:UE:329:ASN:ND2	2.35	0.59
9:UH:229:VAL:O	9:UH:233:MET:HB2	2.02	0.59
8:UI:269:LEU:HD23	8:UI:303:VAL:HB	1.83	0.59
8:UI:289:ALA:O	8:UI:293:ASN:ND2	2.34	0.59
9:UJ:192:LEU:O	9:UJ:196:THR:OG1	2.20	0.59
8:UK:339:ARG:NE	8:UK:339:ARG:O	2.29	0.59
8:VM:68:VAL:HG12	8:VM:93:ILE:HB	1.84	0.59
8:WI:27:GLU:OE1	8:WI:243:ARG:NH1	2.35	0.59
8:WI:123:ARG:NH1	8:WI:160:ASP:OD1	2.22	0.59
9:WJ:156:ARG:NH2	9:WJ:197:ASP:OD1	2.33	0.59
9:WJ:308:GLY:HA3	9:WJ:373:ALA:HB2	1.82	0.59
47:X:352:ARG:HH21	47:X:364:LEU:HA	1.66	0.59
56:XH:177:LEU:HD23	56:XH:182:LYS:HG2	1.84	0.59
60:f:490:ILE:HG13	60:f:499:ASN:HB2	1.84	0.59
7:Av:216:PRO:HG3	8:NG:160:ASP:HB2	1.83	0.59
8:BA:79:ARG:NH2	8:BA:92:LEU:O	2.35	0.59
19:BP:397:LEU:HD11	9:MJ:106:TYR:HD2	1.67	0.59
9:CB:354:CYS:SG	9:CB:355:ASP:N	2.75	0.59
8:CM:55:GLU:O	8:DM:285:GLN:NE2	2.33	0.59
17:CR:12:ILE:O	9:N0:320:ARG:NH2	2.34	0.59
29:DU:122:ASP:OD2	29:DU:325:GLN:NE2	2.35	0.59
9:ED:262:ARG:HH21	9:ED:418:LEU:HD21	1.67	0.59
8:EK:64:ARG:HE	8:EK:125:LEU:HD22	1.67	0.59
44:EV:365:ASN:HD22	44:EV:366:VAL:HG23	1.65	0.59
8:FE:258:ASN:HD21	9:FF:178:THR:HG23	1.68	0.59
45:G:525:ARG:NH1	8:GM:39:ASP:OD2	2.35	0.59
9:HJ:68:LEU:HD12	9:HJ:97:ALA:HB2	1.84	0.59
8:KC:392:ASP:OD1	8:KC:422:ARG:NE	2.35	0.59
9:MD:215:LEU:HD11	9:MD:273:LEU:HD22	1.84	0.59
8:MI:188:ILE:HG12	8:MI:391:LEU:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MK:247:ALA:O	9:ML:11:GLN:NE2	2.35	0.59
8:MM:168:GLU:HB2	8:MM:201:ALA:HA	1.84	0.59
8:NA:142:GLY:HA3	67:NA:502:GTP:H4'	1.84	0.59
9:ND:6:HIS:NE2	9:ND:8:GLN:OE1	2.35	0.59
9:OF:399:THR:HA	9:OF:403:MET:HB2	1.83	0.59
9:OH:333:VAL:O	9:OH:337:ASN:ND2	2.34	0.59
9:PF:189:VAL:HA	9:PF:192:LEU:HB2	1.84	0.59
8:PG:15:GLN:O	8:PG:228:ASN:ND2	2.36	0.59
8:PG:298:PRO:HA	8:PG:301:GLN:HE22	1.67	0.59
8:QI:195:LEU:HD11	8:QI:428:LEU:HD11	1.82	0.59
8:RA:207:GLU:HA	8:RA:210:TYR:HB2	1.83	0.59
9:RB:37:HIS:O	9:RB:37:HIS:ND1	2.28	0.59
9:RF:51:TYR:O	9:RF:62:ARG:NH2	2.34	0.59
9:RH:324:LYS:HZ2	8:RI:214:ARG:HB2	1.68	0.59
9:RJ:334:GLN:NE2	9:RJ:348:ASN:OD1	2.35	0.59
8:RM:33:ASP:O	8:RM:60:LYS:NZ	2.35	0.59
9:SF:26:ASP:OD1	9:SF:359:ARG:NH1	2.34	0.59
8:SM:414:GLU:OE1	8:SM:416:GLY:N	2.34	0.59
8:TE:254:GLU:O	8:TE:258:ASN:ND2	2.35	0.59
9:TJ:237:THR:HB	9:TJ:240:LEU:HD12	1.84	0.59
8:UG:312:TYR:CE2	8:UG:341:ILE:HD11	2.38	0.59
9:UH:152:ILE:HG23	9:UH:164:MET:HE3	1.83	0.59
8:VC:236:SER:OG	8:VC:243:ARG:NH2	2.35	0.59
9:VH:237:THR:O	9:VH:241:ARG:NH1	2.36	0.59
9:VL:153:SER:HA	9:VL:195:ASN:HD21	1.67	0.59
9:VN:237:THR:O	9:VN:241:ARG:NH1	2.35	0.59
9:WB:8:GLN:HE22	9:WB:17:GLY:HA3	1.65	0.59
63:l:91:ILE:HG12	63:l:101:THR:HG21	1.83	0.59
2:0k:27:ILE:HG13	2:0k:126:LEU:HD11	1.84	0.59
7:A1:55:GLY:HA3	9:PJ:306:ARG:HH22	1.67	0.59
7:A8:125:SER:OG	7:A8:126:ALA:N	2.33	0.59
9:AB:14:ASN:ND2	9:AB:67:ASP:OD1	2.34	0.59
12:AV:295:GLU:OE1	12:AV:350:LYS:NZ	2.35	0.59
13:Ad:157:ASP:OD1	13:Ad:158:ALA:N	2.35	0.59
15:Ap:183:LYS:HD2	47:I:296:ARG:HH12	1.67	0.59
8:BK:15:GLN:NE2	67:BK:501:GTP:O6	2.35	0.59
19:BR:105:TRP:HZ2	39:Dk:126:HIS:HB3	1.67	0.59
19:BR:371:MET:HE3	19:BR:426:ILE:HD13	1.84	0.59
27:Bs:302:MET:HE2	8:HI:26:LEU:HD23	1.84	0.59
28:C7:123:ASP:OD1	28:C9:437:ARG:NH1	2.32	0.59
9:CJ:42:LEU:HD21	9:CJ:356:ILE:HG13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CJ:423:GLN:NE2	9:CJ:426:GLN:OE1	2.36	0.59
2:Cb:120:HIS:CD2	2:Cb:143:PRO:HB3	2.37	0.59
2:Cj:127:SER:HB2	2:Cj:130:GLU:HB2	1.83	0.59
8:DA:346:TRP:HB3	9:DB:391:ARG:HD3	1.82	0.59
9:DB:313:VAL:HB	9:DB:349:VAL:HG22	1.84	0.59
9:DD:318:ARG:HD3	9:DD:358:PRO:HD3	1.83	0.59
43:E2:155:ARG:HD3	43:E2:159:GLU:HG3	1.84	0.59
9:EB:378:PHE:HD2	9:EB:415:MET:HE1	1.66	0.59
9:FF:161:ASP:N	9:FF:161:ASP:OD1	2.35	0.59
8:IG:326:LYS:HD3	9:IH:220:PRO:HD2	1.83	0.59
8:JK:254:GLU:OE1	9:JL:99:ASN:ND2	2.34	0.59
9:KN:73:MET:HG3	9:KN:92:PHE:HD2	1.67	0.59
9:LB:49:VAL:HG11	9:LB:241:ARG:HG2	1.83	0.59
9:LF:314:ALA:HB3	9:LF:368:ILE:HB	1.85	0.59
8:LK:254:GLU:HG2	9:LL:98:GLY:HA2	1.84	0.59
8:ME:168:GLU:HB2	8:ME:201:ALA:HA	1.83	0.59
8:MM:188:ILE:HG13	8:MM:395:LEU:HD13	1.82	0.59
8:NE:72:PRO:O	8:NE:76:ASP:HB2	2.01	0.59
9:NJ:344:TRP:HA	8:NK:397:LEU:HD12	1.84	0.59
9:OB:173:PRO:HD2	9:OB:205:GLU:HG2	1.85	0.59
8:OE:286:LEU:O	8:OE:373:ARG:NH1	2.35	0.59
9:OH:354:CYS:SG	9:OH:355:ASP:N	2.73	0.59
9:PB:2:ARG:HG3	9:PB:240:LEU:HD23	1.83	0.59
8:PC:3:GLU:OE1	8:PC:64:ARG:NH1	2.34	0.59
9:PD:116:VAL:HA	9:PD:119:VAL:HG22	1.83	0.59
9:QD:207:LEU:HD23	9:QD:225:LEU:HB3	1.83	0.59
9:QH:375:GLN:HB2	9:QH:379:LYS:HZ3	1.66	0.59
8:RE:123:ARG:HH22	8:SE:293:ASN:HB3	1.67	0.59
8:SA:11:GLN:HE21	8:SA:15:GLN:HE22	1.49	0.59
8:SA:58:ALA:HB2	46:o:545:ARG:HH21	1.67	0.59
8:TE:205:ASP:HB3	8:TE:303:VAL:HA	1.85	0.59
9:TL:309:ARG:NH1	9:TL:339:SER:O	2.36	0.59
8:UM:274:PRO:HG3	8:UM:374:ALA:HA	1.84	0.59
9:VH:325:GLU:O	9:VH:329:GLN:HG3	2.02	0.59
47:X:364:LEU:HG	47:X:366:ARG:HH12	1.67	0.59
57:YL:60:GLY:HA2	57:YL:63:LYS:HZ1	1.68	0.59
59:c:196:ILE:HD13	59:d:523:LEU:HD22	1.84	0.59
2:0Y:134:HIS:HB3	2:0Y:135:TYR:HD1	1.67	0.59
7:A1:155:LYS:HZ3	8:PE:214:ARG:HG3	1.67	0.59
7:A9:87:TYR:CD2	9:TB:291:GLN:HB2	2.37	0.59
7:Ay:174:ASP:OD1	7:Ay:174:ASP:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B5:130:ASP:OD2	8:KK:214:ARG:NH2	2.34	0.59
9:BH:375:GLN:HB2	9:BH:419:VAL:HG13	1.85	0.59
9:BJ:10:GLY:O	9:BJ:14:ASN:ND2	2.34	0.59
9:CB:132:GLY:HA3	9:CB:163:ILE:HG22	1.82	0.59
8:CG:2:ARG:HB3	8:CG:242:LEU:HD23	1.84	0.59
9:CJ:2:ARG:HB2	9:CJ:131:GLN:HB2	1.85	0.59
29:Cz:333:ASP:OD2	29:Cz:337:ARG:NH2	2.35	0.59
8:DC:102:ASN:OD1	8:DC:104:ALA:N	2.33	0.59
8:DE:217:LEU:HD23	8:DE:219:ILE:HG12	1.84	0.59
9:DF:248:ALA:HA	9:DF:252:LYS:HD3	1.85	0.59
8:DG:192:HIS:ND1	8:DG:424:ASP:OD2	2.34	0.59
8:DG:269:LEU:HD12	8:DG:384:ILE:HD12	1.85	0.59
8:EG:53:PHE:O	8:EG:64:ARG:NH1	2.35	0.59
8:EI:215:ARG:NH2	8:EI:300:ASN:OD1	2.35	0.59
9:EL:318:ARG:HD3	9:EL:358:PRO:HD3	1.83	0.59
8:FG:343:PHE:HZ	8:FG:350:GLY:HA3	1.67	0.59
9:FN:7:LEU:HD21	9:FN:151:LEU:HD13	1.85	0.59
9:FN:8:GLN:HE21	9:FN:14:ASN:HA	1.66	0.59
8:GI:11:GLN:HG2	8:GI:74:VAL:HG11	1.83	0.59
9:GJ:350:LYS:HD3	8:GK:181:VAL:HG12	1.85	0.59
9:HN:282:ARG:O	9:HN:282:ARG:HD2	2.02	0.59
8:IE:206:ASN:OD1	67:IE:501:GTP:N2	2.35	0.59
9:JH:271:ALA:O	9:JH:292:GLN:NE2	2.35	0.59
9:LF:376:GLU:OE1	9:LF:380:ARG:NH1	2.35	0.59
9:LH:62:ARG:NH1	9:LH:127:CYS:SG	2.75	0.59
9:NF:30:ILE:HD11	9:NF:47:ILE:HD11	1.83	0.59
8:NK:103:TYR:H	8:NK:408:TYR:HE1	1.48	0.59
8:OA:195:LEU:HD23	8:OA:264:ARG:HH21	1.67	0.59
8:QA:395:LEU:HD11	8:QA:418:PHE:HZ	1.68	0.59
9:QB:324:LYS:O	9:QB:328:GLU:HB3	2.01	0.59
8:QG:54:SER:OG	8:RG:285:GLN:NE2	2.34	0.59
8:QM:70:LEU:HD22	8:QM:114:ILE:HD12	1.83	0.59
8:RE:286:LEU:HB3	8:RE:373:ARG:HH11	1.68	0.59
8:RM:335:ILE:HD12	8:RM:338:LYS:HE3	1.85	0.59
9:VH:100:ASN:HB3	9:VH:103:LYS:HG2	1.83	0.59
8:WC:337:THR:HA	8:WC:339:ARG:HH22	1.66	0.59
8:WG:64:ARG:NH1	8:WG:129:CYS:SG	2.76	0.59
57:YG:125:PHE:O	57:YG:129:GLN:NE2	2.35	0.59
60:e:211:VAL:HG21	60:e:225:LEU:HD22	1.83	0.59
7:A1:75:LYS:O	7:A1:75:LYS:NZ	2.32	0.59
7:A1:75:LYS:HZ3	7:A1:82:ASP:HB3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A8:182:PRO:HA	8:SI:123:ARG:HH22	1.68	0.59
9:AH:281:TYR:O	9:KJ:86:ARG:NH1	2.35	0.59
9:AJ:178:THR:HG22	9:AJ:180:VAL:H	1.68	0.59
12:AW:343:ARG:NH2	12:AW:357:CYS:SG	2.75	0.59
7:Av:136:THR:HG22	8:NK:123:ARG:NH1	2.17	0.59
14:B7:238:ARG:HH12	14:B7:242:THR:HB	1.66	0.59
9:BH:189:VAL:HA	9:BH:192:LEU:HB2	1.84	0.59
8:BK:241:SER:HB2	8:BK:249:ASN:HB3	1.84	0.59
9:BL:32:PRO:HD3	9:BL:81:PHE:CE1	2.37	0.59
14:Bb:282:LEU:H	14:Bb:305:THR:HG21	1.66	0.59
28:C8:98:ASP:HA	28:C8:101:ARG:HG2	1.83	0.59
8:CA:392:ASP:HB3	8:CA:422:ARG:HH22	1.66	0.59
9:CL:279:GLN:NE2	47:Y:307:ASN:O	2.30	0.59
32:Cm:130:ASP:OD1	32:Cm:131:GLU:N	2.35	0.59
29:D4:280:ILE:HD11	29:D5:397:THR:HG21	1.83	0.59
9:DB:313:VAL:HG13	9:DB:367:PHE:HE1	1.67	0.59
8:DE:332:ILE:HA	8:DE:335:ILE:HD12	1.83	0.59
9:DF:117:LEU:HD11	9:DF:154:LYS:HG2	1.84	0.59
9:DF:198:GLU:HA	9:DF:264:HIS:HB2	1.84	0.59
29:DP:99:ASP:OD2	29:DP:103:ARG:NH2	2.36	0.59
9:EB:323:MET:HE1	8:EC:224:TYR:CD1	2.35	0.59
9:EF:8:GLN:NE2	9:EF:13:GLY:O	2.35	0.59
8:EK:215:ARG:NH2	8:EK:300:ASN:OD1	2.36	0.59
9:FB:330:MET:HB3	9:FB:349:VAL:HG21	1.85	0.59
9:FL:25:SER:HG	9:FL:51:TYR:HH	1.51	0.59
8:HK:11:GLN:HG3	8:HK:74:VAL:HG21	1.83	0.59
8:IC:276:ILE:HG12	8:IC:280:LYS:HB2	1.84	0.59
8:IC:317:MET:HE1	8:IC:351:PHE:HE1	1.67	0.59
9:JB:2:ARG:HH21	8:JC:96:LYS:HB3	1.68	0.59
9:JL:306:ARG:NH1	51:O:13:LYS:HA	2.15	0.59
9:KD:211:CYS:HB3	9:KD:217:LEU:HD12	1.84	0.59
8:KE:280:LYS:HE2	8:LE:90:GLU:OE2	2.02	0.59
8:MC:3:GLU:HA	8:MC:51:THR:HA	1.84	0.59
9:MD:405:GLU:N	9:MD:405:GLU:OE1	2.36	0.59
9:MN:262:ARG:HH12	9:MN:418:LEU:HA	1.67	0.59
9:NF:404:ASP:OD1	9:NF:405:GLU:N	2.34	0.59
8:OC:244:PHE:HB2	8:OC:356:ASN:HD21	1.67	0.59
9:OD:171:PRO:O	9:OD:380:ARG:NH2	2.36	0.59
8:OI:115:VAL:HA	8:OI:118:VAL:HG12	1.84	0.59
52:P:96:GLN:NE2	8:UG:77:GLU:OE2	2.35	0.59
9:PH:385:PHE:HA	9:PH:388:MET:HE2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QC:212:ILE:HD11	8:QC:300:ASN:HA	1.85	0.59
9:QF:170:VAL:HG22	9:QF:171:PRO:HD3	1.85	0.59
9:QL:323:MET:HE1	9:QL:353:VAL:HG21	1.84	0.59
9:SB:25:SER:HG	9:SB:51:TYR:HH	1.49	0.59
9:VD:347:ASN:ND2	8:VE:180:ALA:O	2.36	0.59
8:VE:167:LEU:HD21	8:VE:256:GLN:HE21	1.66	0.59
8:VG:104:ALA:HA	8:VG:413:MET:HE2	1.83	0.59
9:VH:46:ARG:HH12	8:VI:73:THR:HG22	1.68	0.59
9:WJ:375:GLN:HG3	9:WJ:379:LYS:HD2	1.83	0.59
60:g:129:LEU:HB3	60:g:143:TRP:HB2	1.85	0.59
3:2:123:VAL:HG21	3:2:198:LEU:HD11	1.83	0.59
4:3:1493:ARG:NH2	4:3:1496:LEU:O	2.35	0.59
6:A0:54:GLY:N	9:IJ:328:GLU:OE1	2.32	0.59
9:AD:290:THR:HG21	9:AD:329:GLN:HB3	1.84	0.59
9:AD:435:GLU:N	9:AD:435:GLU:OE2	2.35	0.59
8:AI:11:GLN:HG3	8:AI:74:VAL:HG21	1.83	0.59
8:AI:180:ALA:HB3	8:AI:183:GLU:HG3	1.83	0.59
9:AL:25:SER:HG	9:AL:51:TYR:HH	1.47	0.59
9:BB:86:ARG:NH1	9:CB:281:TYR:O	2.35	0.59
9:BF:45:GLU:OE1	14:Ba:286:TYR:OH	2.21	0.59
9:BF:273:LEU:O	9:BF:292:GLN:NE2	2.34	0.59
8:BK:8:HIS:HE1	8:BK:21:TRP:HE1	1.48	0.59
8:BK:430:LYS:NZ	8:BK:431:ASP:OD1	2.36	0.59
18:By:200:LEU:HD23	18:By:247:LEU:HD22	1.83	0.59
28:C3:159:GLU:OE2	33:Cv:266:ARG:NH1	2.35	0.59
9:CH:265:PHE:HB3	9:CH:374:ILE:HD13	1.85	0.59
32:Cp:388:VAL:HG12	32:Cp:389:LEU:HD23	1.85	0.59
33:Cu:97:GLU:OE2	44:EY:161:ARG:NH2	2.36	0.59
29:D8:402:ARG:O	29:D8:405:ARG:NH1	2.35	0.59
8:DE:295:CYS:HA	8:DE:300:ASN:HD22	1.68	0.59
9:DF:272:PRO:HD3	9:DF:289:LEU:HD22	1.84	0.59
29:EO:127:MET:HE1	29:EQ:380:LEU:HB3	1.84	0.59
9:FF:344:TRP:CD1	8:FG:401:LYS:HD3	2.38	0.59
8:GE:129:CYS:SG	8:GE:130:THR:N	2.76	0.59
9:GJ:325:GLU:HA	9:GJ:328:GLU:HG2	1.85	0.59
8:HE:188:ILE:HG13	8:HE:395:LEU:HD22	1.83	0.59
8:HE:269:LEU:HD22	8:HE:303:VAL:HG21	1.84	0.59
9:HH:260:PHE:HE2	9:HH:425:TYR:HE2	1.49	0.59
9:IJ:314:ALA:HB3	9:IJ:368:ILE:HB	1.83	0.59
9:IL:1:MET:HE1	8:IM:96:LYS:HD2	1.83	0.59
8:KE:422:ARG:HH12	8:KE:426:ALA:HB2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KL:5:VAL:HG22	9:KL:62:ARG:HD2	1.84	0.59
9:LF:237:THR:HG22	9:LF:250:LEU:HD11	1.84	0.59
8:ME:402:ARG:HH12	54:R:129:LYS:HE2	1.67	0.59
8:MG:206:ASN:ND2	67:MG:501:GTP:O2'	2.36	0.59
9:ND:189:VAL:HB	9:ND:415:MET:HE1	1.83	0.59
9:NF:215:LEU:HD23	9:NF:273:LEU:HD22	1.84	0.59
9:NL:98:GLY:HA3	9:NL:103:LYS:HD2	1.84	0.59
8:OC:127:ASP:OD2	8:PC:293:ASN:ND2	2.32	0.59
9:OD:63:ALA:O	9:OD:89:ASN:ND2	2.34	0.59
52:P:114:HIS:HB2	59:c:200:LYS:HZ3	1.68	0.59
8:QC:377:MET:HE2	8:QC:379:SER:HB2	1.83	0.59
9:QD:8:GLN:HE22	9:QD:136:THR:HB	1.67	0.59
8:RA:111:GLY:O	8:RA:115:VAL:HB	2.03	0.59
8:RM:123:ARG:HH11	8:RM:124:LYS:HZ2	1.51	0.59
9:SB:313:VAL:HG22	9:SB:349:VAL:HA	1.85	0.59
8:UE:310:GLY:HA3	8:UE:383:ALA:HB2	1.84	0.59
9:UN:406:MET:SD	9:UN:406:MET:N	2.67	0.59
8:VC:204:VAL:HG11	8:VC:231:ILE:HD11	1.84	0.59
9:VD:125:GLU:OE2	9:VD:159:TYR:OH	2.21	0.59
8:VG:42:ILE:HD12	60:f:150:ALA:HB1	1.84	0.59
8:WG:311:LYS:NZ	8:WG:342:GLN:OE1	2.35	0.59
56:XI:50:GLU:HA	56:XI:159:ASN:H	1.66	0.59
60:e:39:GLN:O	60:e:302:ARG:NH2	2.35	0.59
60:f:360:ARG:NE	60:f:369:GLU:OE2	2.31	0.59
9:AJ:435:GLU:HB2	9:AJ:436:PHE:CZ	2.38	0.59
13:Ab:68:ASP:OD1	13:Ab:89:LYS:NZ	2.35	0.59
13:Ac:630:TYR:O	47:X:502:ARG:NH2	2.35	0.59
9:BD:41:ASP:OD2	14:BZ:276:ILE:N	2.36	0.59
8:BG:335:ILE:HG23	8:BG:341:ILE:HD13	1.85	0.59
28:C8:160:ILE:HG23	28:C8:254:LEU:HD22	1.83	0.59
28:C8:180:ARG:HH12	28:C8:487:VAL:HB	1.67	0.59
9:CJ:209:ASP:HB3	9:CJ:213:ARG:NH1	2.13	0.59
9:CL:49:VAL:HG11	9:CL:241:ARG:HG2	1.83	0.59
2:Cc:129:ASP:OD1	2:Cc:133:ASN:ND2	2.35	0.59
31:Cl:331:VAL:HG11	31:Cl:339:ILE:HD12	1.83	0.59
32:Co:173:LYS:NZ	32:Co:176:ARG:HH12	2.00	0.59
33:Cu:199:ILE:HA	33:Cy:316:THR:HG21	1.85	0.59
8:DC:180:ALA:HB3	8:DC:183:GLU:HB2	1.83	0.59
29:DW:51:TRP:HE1	63:n:79:ARG:HH12	1.49	0.59
9:EH:26:ASP:O	9:EH:359:ARG:NH1	2.36	0.59
9:EH:209:ASP:OD2	9:EH:213:ARG:NH1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:267:MET:HE2	9:FJ:301:ALA:HB3	1.84	0.59
9:FL:210:ILE:HG13	9:FL:299:MET:HG2	1.84	0.59
8:GC:306:ASP:OD2	8:GC:309:HIS:NE2	2.35	0.59
8:HK:151:SER:HA	8:HK:154:MET:HE2	1.84	0.59
8:HK:239:THR:OG1	8:HK:243:ARG:NH2	2.35	0.59
9:IB:287:PRO:HG3	9:IB:329:GLN:HE22	1.68	0.59
9:IF:230:SER:HA	9:IF:233:MET:HG2	1.85	0.59
9:IN:161:ASP:OD2	9:IN:162:ARG:NH1	2.36	0.59
9:JL:336:LYS:HZ2	51:O:16:ILE:HG13	1.67	0.59
8:LG:430:LYS:NZ	54:R:245:VAL:O	2.30	0.59
8:LI:317:MET:HB2	8:LI:353:VAL:HG12	1.84	0.59
8:ME:251:ASP:H	8:ME:254:GLU:HB2	1.66	0.59
9:O0:271:ALA:HB2	9:O0:293:MET:HE3	1.82	0.59
8:OC:320:ARG:HB2	8:OC:374:ALA:HB3	1.84	0.59
8:OG:102:ASN:HB2	8:OG:105:ARG:HB2	1.85	0.59
9:PB:355:ASP:OD1	9:PB:355:ASP:N	2.31	0.59
9:QH:112:LEU:HA	9:QH:115:SER:HB2	1.85	0.59
9:QJ:54:ALA:HA	9:RJ:283:ALA:HB2	1.84	0.59
54:R:116:LEU:O	54:R:148:ARG:NH1	2.36	0.59
8:RG:199:ASP:OD1	8:RG:199:ASP:N	2.36	0.59
9:TB:10:GLY:HA2	9:TB:143:THR:HG23	1.84	0.59
8:TC:56:THR:HA	8:UC:285:GLN:HB3	1.84	0.59
8:TI:3:GLU:HA	8:TI:51:THR:HA	1.85	0.59
8:TK:376:CYS:SG	8:TK:377:MET:N	2.75	0.59
9:VF:192:LEU:O	9:VF:196:THR:OG1	2.21	0.59
9:VJ:11:GLN:NE2	69:VJ:501:GDP:O2A	2.36	0.59
9:VL:11:GLN:NE2	69:VL:501:GDP:O2A	2.35	0.59
9:WD:287:PRO:HG3	9:WD:329:GLN:HE22	1.67	0.59
8:WK:277:SER:HB3	8:WK:280:LYS:HB3	1.84	0.59
57:YJ:157:LEU:HB3	57:YJ:196:ILE:HG21	1.83	0.59
66:w:347:ARG:HG2	66:w:388:LEU:HD12	1.84	0.59
8:AG:263:PRO:HD2	56:XJ:116:PRO:HG3	1.84	0.59
9:AL:20:PHE:CE2	9:AL:233:MET:HG2	2.37	0.59
7:Aw:76:ILE:O	8:OC:215:ARG:NH2	2.36	0.59
8:BE:295:CYS:HB3	8:BE:377:MET:HE3	1.83	0.59
8:BG:11:GLN:HG3	8:BG:74:VAL:HG21	1.85	0.59
27:Br:160:ARG:HH12	9:GB:58:LYS:HZ3	1.49	0.59
28:C2:216:GLU:OE2	28:C4:93:ARG:NH2	2.35	0.59
28:C7:296:VAL:HG23	28:C7:298:GLU:H	1.68	0.59
2:Ca:128:CYS:SG	8:QE:283:HIS:NE2	2.65	0.59
29:D1:283:PHE:HA	29:EP:445:GLN:HE22	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DD:265:PHE:HB3	9:DD:374:ILE:HD13	1.84	0.59
8:DI:53:PHE:HB3	8:DI:61:HIS:HB3	1.83	0.59
8:DI:103:TYR:CD1	8:DI:189:LEU:HG	2.36	0.59
8:DK:204:VAL:HG22	8:DK:303:VAL:HG22	1.84	0.59
9:EJ:252:LYS:HE2	8:EK:100:ALA:HA	1.84	0.59
42:F:524:VAL:O	61:h:94:LYS:NZ	2.29	0.59
28:F3:414:ASP:HB3	28:F6:149:ARG:NH1	2.18	0.59
9:GF:54:ALA:HA	9:HF:283:ALA:HB2	1.83	0.59
9:HF:334:GLN:NE2	9:HF:348:ASN:OD1	2.36	0.59
9:IJ:127:CYS:SG	9:IJ:128:ASP:N	2.75	0.59
8:IO:202:PHE:HD1	8:IO:268:PRO:HG2	1.67	0.59
8:JG:336:LYS:O	8:JG:339:ARG:NH2	2.35	0.59
8:JK:278:ALA:HA	8:JK:369:ALA:HB2	1.84	0.59
9:KD:170:VAL:HG21	9:KD:377:LEU:HD21	1.83	0.59
9:LJ:46:ARG:NH2	8:LK:76:ASP:OD2	2.35	0.59
9:MF:198:GLU:HG2	9:MF:266:PHE:HE2	1.67	0.59
8:NG:319:TYR:HB3	8:NG:323:VAL:HG21	1.84	0.59
9:OD:230:SER:HA	9:OD:233:MET:HG2	1.84	0.59
9:PD:67:ASP:HA	9:PD:143:THR:HG21	1.85	0.59
8:PK:127:ASP:OD2	8:QK:293:ASN:ND2	2.36	0.59
9:PL:66:VAL:HG12	9:PL:91:VAL:HB	1.84	0.59
8:QC:288:VAL:HG21	8:QC:327:ASP:HB3	1.83	0.59
8:QI:15:GLN:O	8:QI:228:ASN:ND2	2.33	0.59
9:RD:166:THR:OG1	9:RD:198:GLU:O	2.18	0.59
9:RJ:262:ARG:HE	9:RJ:418:LEU:HD21	1.67	0.59
8:RK:320:ARG:HG2	8:RK:360:PRO:HD3	1.84	0.59
8:SA:212:ILE:HG21	8:SA:302:MET:HE1	1.85	0.59
9:SD:228:LEU:HD11	9:SD:273:LEU:HD11	1.85	0.59
8:SE:395:LEU:HD21	8:SE:418:PHE:HE1	1.67	0.59
9:SJ:403:MET:SD	9:SJ:403:MET:N	2.75	0.59
8:SK:204:VAL:HG13	8:SK:302:MET:HB3	1.85	0.59
8:UE:63:PRO:O	8:UE:91:GLN:NE2	2.36	0.59
9:UN:321:MET:SD	9:UN:321:MET:N	2.75	0.59
56:XL:74:PRO:HD2	56:XL:169:ASP:HA	1.84	0.59
60:e:106:LEU:HD11	60:e:109:ARG:HH21	1.68	0.59
14:Ao:70:LYS:HG3	14:Ao:71:PRO:HD3	1.84	0.59
5:B:162:LYS:NZ	60:f:162:GLY:O	2.31	0.59
8:BK:93:ILE:HD13	8:BK:118:VAL:HG12	1.85	0.59
28:C2:209:ASP:OD1	28:C4:99:TRP:NE1	2.32	0.59
33:Cx:154:LYS:HG3	33:Cx:246:THR:HG21	1.83	0.59
9:DH:8:GLN:HE22	9:DH:136:THR:HB	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:E:793:ALA:O	42:E:797:LEU:HB2	2.02	0.59
29:EA:201:ARG:HH22	29:EA:214:VAL:HB	1.68	0.59
8:EE:318:LEU:HB2	8:EE:376:CYS:HB3	1.85	0.59
9:EN:269:GLY:HA3	9:EN:367:PHE:HB3	1.84	0.59
42:F:538:ARG:HH11	42:F:541:ARG:HH21	1.50	0.59
9:FD:86:ARG:NH1	9:GD:278:SER:OG	2.35	0.59
8:FE:381:THR:O	8:FE:432:TYR:OH	2.20	0.59
9:FL:237:THR:HG22	9:FL:250:LEU:HD21	1.85	0.59
9:FL:252:LYS:NZ	8:FM:101:ASN:OD1	2.34	0.59
8:FM:69:ASP:OD2	8:FM:70:LEU:N	2.36	0.59
9:GB:73:MET:HA	9:GB:76:VAL:HG12	1.85	0.59
9:GF:86:ARG:HH11	9:HF:281:TYR:HB3	1.68	0.59
8:HE:408:TYR:CD1	8:HE:418:PHE:HZ	2.20	0.59
8:HG:290:GLU:HA	8:HG:293:ASN:HB2	1.84	0.59
9:HJ:285:THR:HG23	9:HJ:287:PRO:HD2	1.83	0.59
9:HL:86:ARG:NH2	9:IL:278:SER:O	2.35	0.59
8:HO:192:HIS:ND1	8:HO:424:ASP:OD1	2.28	0.59
9:IH:232:THR:HG21	9:IH:300:MET:HE1	1.84	0.59
8:JC:200:CYS:HA	8:JC:266:HIS:HB2	1.83	0.59
9:LD:172:SER:OG	9:LD:205:GLU:OE2	2.21	0.59
8:LK:211:ASP:OD2	8:LK:215:ARG:NH2	2.35	0.59
9:MF:162:ARG:NH2	8:MG:97:GLU:OE2	2.35	0.59
8:NA:395:LEU:HD13	8:NA:422:ARG:HD3	1.85	0.59
8:NK:211:ASP:OD1	8:NK:214:ARG:NH2	2.36	0.59
8:OI:325:PRO:O	8:OI:329:ASN:ND2	2.36	0.59
8:PA:60:LYS:HE3	8:PA:62:VAL:HG22	1.83	0.59
8:PI:259:LEU:O	8:PI:380:ASN:ND2	2.36	0.59
9:PJ:207:LEU:HB3	9:PJ:225:LEU:HD23	1.84	0.59
8:QA:7:ILE:HD11	8:QA:122:ILE:HD11	1.85	0.59
8:QK:50:ASN:ND2	8:QK:55:GLU:OE2	2.35	0.59
9:RF:7:LEU:HD21	9:RF:151:LEU:HD22	1.84	0.59
8:RK:7:ILE:HG22	8:RK:66:VAL:HB	1.83	0.59
8:RM:88:HIS:NE2	8:SM:284:GLU:OE1	2.31	0.59
9:SB:172:SER:OG	9:SB:203:ASP:OD1	2.21	0.59
8:SE:348:PRO:HD2	9:SF:388:MET:HE3	1.85	0.59
9:TB:164:MET:SD	9:TB:164:MET:N	2.75	0.59
9:TB:304:ASP:HB3	9:TB:307:HIS:HE1	1.67	0.59
9:TL:67:ASP:OD2	9:TL:72:THR:OG1	2.21	0.59
9:TL:163:ILE:HD11	9:TL:251:ARG:HD3	1.84	0.59
9:TL:178:THR:HB	9:TL:181:GLU:HG3	1.84	0.59
9:UH:246:LEU:HD21	8:UI:179:THR:HG21	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UN:299:MET:HE2	9:UN:305:PRO:HG3	1.84	0.59
1:V:79:ARG:NH1	1:V:80:ARG:HB3	2.17	0.59
9:VB:170:VAL:HG11	9:VB:377:LEU:HD11	1.84	0.59
8:VI:133:GLN:HG3	8:VI:252:LEU:HD12	1.85	0.59
9:VJ:362:LYS:HZ3	59:b:341:PHE:HB2	1.68	0.59
9:WB:323:MET:SD	9:WB:323:MET:N	2.76	0.59
9:WF:54:ALA:HB3	9:WF:58:LYS:HB2	1.85	0.59
56:XI:96:ASP:OD1	56:XI:146:THR:OG1	2.20	0.59
60:e:119:ALA:HB1	60:e:167:VAL:HG22	1.84	0.59
7:A9:54:ARG:HB2	9:TD:295:ASP:HA	1.85	0.59
8:AE:98:ASP:O	8:AE:105:ARG:NH1	2.34	0.59
8:AE:172:TYR:OH	8:AE:387:ALA:O	2.21	0.59
8:AE:180:ALA:HB3	8:AE:183:GLU:HG3	1.85	0.59
8:AE:254:GLU:O	8:AE:258:ASN:ND2	2.36	0.59
13:Ac:262:SER:OG	13:Ac:263:LEU:N	2.34	0.59
23:Bg:88:VAL:HB	9:GN:92:PHE:HZ	1.68	0.59
18:By:214:PHE:HD1	18:By:217:LEU:HD12	1.68	0.59
9:CD:45:GLU:HG2	9:CD:46:ARG:HG2	1.85	0.59
29:D4:405:ARG:HB2	29:D4:410:LEU:HB2	1.85	0.59
9:DJ:404:ASP:OD1	9:DJ:404:ASP:N	2.35	0.59
9:DN:52:ASN:OD1	9:DN:60:VAL:HG13	2.02	0.59
39:Dk:79:SER:OG	39:Dk:87:ARG:NH2	2.36	0.59
43:E4:168:VAL:HG21	28:F6:122:VAL:HG12	1.83	0.59
8:EK:63:PRO:HG2	8:EK:87:PHE:HA	1.84	0.59
9:EL:73:MET:HE1	9:EL:92:PHE:HB3	1.85	0.59
28:F3:406:ARG:HG3	28:F6:267:ILE:HD11	1.85	0.59
45:G:32:PRO:HG2	45:G:33:LEU:HD12	1.83	0.59
47:I:324:TYR:HE2	47:I:335:LEU:HD11	1.66	0.59
8:II:50:ASN:O	8:II:64:ARG:NH1	2.36	0.59
9:LJ:178:THR:HB	9:LJ:181:GLU:HB2	1.85	0.59
8:ME:255:PHE:HZ	8:ME:318:LEU:HD11	1.68	0.59
9:MN:156:ARG:NH2	9:MN:197:ASP:OD1	2.26	0.59
8:NI:414:GLU:HG2	8:NI:416:GLY:H	1.68	0.59
9:NJ:314:ALA:HB3	9:NJ:368:ILE:HB	1.84	0.59
9:OB:344:TRP:HA	8:OC:397:LEU:HD12	1.84	0.59
8:OI:70:LEU:HD13	8:OI:95:GLY:HA3	1.85	0.59
8:OK:50:ASN:O	8:OK:64:ARG:NH1	2.36	0.59
8:PE:65:ALA:O	8:PE:91:GLN:NE2	2.36	0.59
8:RC:109:THR:O	8:RC:112:LYS:NZ	2.36	0.59
9:RJ:315:ALA:HB1	9:RJ:317:PHE:HE1	1.67	0.59
9:RJ:395:LEU:HA	9:RJ:398:TYR:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RL:107:THR:OG1	9:RL:108:GLU:OE1	2.18	0.59
8:SC:320:ARG:HH21	8:SC:360:PRO:HA	1.67	0.59
9:SL:210:ILE:O	9:SL:214:THR:OG1	2.19	0.59
9:TB:130:LEU:O	9:TB:162:ARG:NH1	2.35	0.59
9:TD:39:ASP:N	9:TD:39:ASP:OD1	2.35	0.59
9:TL:314:ALA:HB3	9:TL:368:ILE:HB	1.85	0.59
9:UL:161:ASP:OD2	9:UL:162:ARG:NH1	2.34	0.59
9:WB:271:ALA:O	9:WB:292:GLN:NE2	2.36	0.59
9:WD:271:ALA:O	9:WD:292:GLN:NE2	2.35	0.59
8:WG:195:LEU:HD11	8:WG:428:LEU:HD22	1.83	0.59
9:WN:204:ASN:OD1	69:WN:501:GDP:N2	2.36	0.59
56:XK:72:LYS:HD2	57:YJ:78:ARG:HG2	1.85	0.59
59:c:162:ASP:OD1	59:c:162:ASP:N	2.36	0.59
60:g:34:LYS:NZ	60:g:73:VAL:O	2.36	0.59
3:x:27:LYS:HG2	3:x:40:ILE:HG13	1.84	0.59
7:A3:85:PRO:O	9:QJ:332:ASN:ND2	2.35	0.58
7:A7:142:TYR:CD2	8:RE:119:LEU:HB3	2.38	0.58
8:AE:221:ARG:NH2	15:Ar:36:SER:O	2.36	0.58
9:AF:347:ASN:ND2	8:AG:178:SER:OG	2.35	0.58
8:AI:76:ASP:O	8:AI:80:THR:OG1	2.20	0.58
11:AT:117:GLN:HA	42:F:397:LYS:HZ1	1.68	0.58
14:B7:239:ASP:HA	14:B7:242:THR:HG22	1.84	0.58
22:BW:163:ILE:O	22:BW:167:SER:HB3	2.03	0.58
26:Bq:109:ARG:NH2	9:LN:78:SER:OG	2.36	0.58
29:D0:385:ILE:HD13	29:D0:433:LEU:HD23	1.85	0.58
9:DB:208:TYR:HE2	9:DB:225:LEU:HD11	1.68	0.58
9:DD:251:ARG:NH2	8:DE:97:GLU:OE2	2.36	0.58
9:DH:181:GLU:HG3	9:DH:182:PRO:HD3	1.84	0.58
8:DK:189:LEU:HD11	8:DK:418:PHE:HB2	1.85	0.58
43:E1:169:ARG:O	28:F3:121:ARG:NH2	2.36	0.58
8:EK:9:VAL:HG13	8:EK:139:HIS:HB3	1.85	0.58
8:EK:201:ALA:HB3	8:EK:267:PHE:HA	1.84	0.58
9:EN:375:GLN:HG2	9:EN:379:LYS:NZ	2.19	0.58
28:F3:43:THR:N	28:F3:69:CYS:O	2.35	0.58
9:FL:248:ALA:HA	9:FL:252:LYS:HD3	1.84	0.58
9:GH:165:ASN:HB3	9:GH:167:PHE:CE1	2.38	0.58
8:GI:2:ARG:HG3	8:GI:242:LEU:HB3	1.85	0.58
9:HB:204:ASN:OD1	69:HB:501:GDP:N2	2.35	0.58
9:HF:45:GLU:OE2	64:ke:69:TYR:OH	2.21	0.58
8:IC:310:GLY:HA3	8:IC:383:ALA:HB2	1.85	0.58
8:II:71:GLU:HB2	8:II:98:ASP:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LJ:405:GLU:N	9:LJ:405:GLU:OE1	2.34	0.58
8:ME:241:SER:OG	8:ME:250:VAL:O	2.21	0.58
9:MJ:328:GLU:OE2	9:MJ:329:GLN:NE2	2.33	0.58
9:NB:407:GLU:HA	9:NB:410:GLU:HG3	1.85	0.58
9:NF:178:THR:HB	9:NF:181:GLU:HG3	1.84	0.58
9:OJ:334:GLN:HE22	9:OJ:349:VAL:HB	1.67	0.58
9:QB:178:THR:HB	9:QB:181:GLU:HG3	1.85	0.58
8:QC:11:GLN:NE2	8:QC:15:GLN:OE1	2.35	0.58
9:QD:161:ASP:OD1	9:QD:162:ARG:NE	2.33	0.58
9:QD:167:PHE:HA	9:QD:200:TYR:HB2	1.84	0.58
9:SJ:274:THR:OG1	9:SJ:282:ARG:NH1	2.36	0.58
8:SK:168:GLU:HG2	8:SK:201:ALA:HA	1.85	0.58
8:TI:333:ALA:HB2	9:TJ:175:VAL:HG12	1.84	0.58
8:TK:370:LYS:HE2	46:o:280:VAL:HG12	1.85	0.58
8:UK:211:ASP:OD2	8:UK:215:ARG:NH2	2.36	0.58
8:VC:296:PHE:CE1	8:VC:377:MET:HE1	2.38	0.58
9:VD:130:LEU:HB3	9:VD:162:ARG:HH21	1.68	0.58
8:VI:385:ALA:HB2	8:VI:432:TYR:HD2	1.68	0.58
8:WE:63:PRO:O	8:WE:91:GLN:NE2	2.35	0.58
56:XL:45:LEU:O	56:XL:163:ARG:NH1	2.36	0.58
2:0A:12:VAL:HG21	2:0A:76:GLU:CD	2.28	0.58
9:AH:324:LYS:HG3	9:AH:328:GLU:OE2	2.03	0.58
9:AL:30:ILE:HD11	9:AL:47:ILE:HD11	1.85	0.58
8:BI:88:HIS:CE1	8:CI:284:GLU:HB3	2.33	0.58
22:BW:53:LYS:NZ	35:DY:63:ASP:OD1	2.36	0.58
28:C3:376:GLU:OE2	32:Cm:100:LYS:NZ	2.34	0.58
8:CA:363:VAL:HG23	8:CA:366:GLY:HA3	1.85	0.58
9:CF:271:ALA:HB2	9:CF:293:MET:HG3	1.84	0.58
8:CI:50:ASN:O	8:CI:64:ARG:NH1	2.35	0.58
9:CJ:319:GLY:HA2	9:CJ:357:PRO:HD3	1.85	0.58
2:Ck:15:LYS:HA	2:Ck:18:ILE:HG12	1.85	0.58
29:DP:244:ARG:HA	29:DP:247:ARG:NH1	2.17	0.58
29:EA:191:LEU:HD11	29:EA:226:LYS:HD2	1.85	0.58
9:FB:267:MET:HE3	9:FB:374:ILE:HG12	1.85	0.58
9:FD:290:THR:HA	9:FD:293:MET:HE2	1.85	0.58
9:FH:398:TYR:HB3	9:FH:403:MET:HE3	1.84	0.58
8:GE:68:VAL:HG22	8:GE:93:ILE:HB	1.83	0.58
9:HJ:343:GLU:N	9:HJ:343:GLU:OE1	2.36	0.58
9:HN:282:ARG:NH2	9:HN:292:GLN:OE1	2.35	0.58
47:I:262:TYR:HE2	47:I:291:LEU:HD13	1.68	0.58
8:IC:206:ASN:OD1	67:IC:501:GTP:N2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IM:206:ASN:OD1	67:IM:501:GTP:N2	2.36	0.58
9:JJ:136:THR:HG22	9:JJ:167:PHE:HB2	1.85	0.58
9:KL:286:VAL:HG22	9:KL:363:MET:HE1	1.84	0.58
8:KM:304:LYS:O	8:KM:390:ARG:NH2	2.36	0.58
9:MD:16:ILE:HD13	9:MD:229:VAL:HG11	1.84	0.58
9:MD:322:SER:H	8:ME:221:ARG:NH2	2.01	0.58
9:O0:52:ASN:OD1	9:O0:62:ARG:NH2	2.36	0.58
9:PF:132:GLY:HA3	9:PF:163:ILE:HG22	1.85	0.58
8:QG:28:HIS:NE2	8:QG:48:SER:O	2.36	0.58
9:QL:156:ARG:NH1	9:QL:195:ASN:O	2.36	0.58
9:SD:345:ILE:HG23	8:SE:398:MET:HE1	1.85	0.58
9:TD:304:ASP:HB3	9:TD:307:HIS:HE1	1.66	0.58
9:TJ:324:LYS:HD2	8:TK:222:PRO:HG2	1.83	0.58
9:UL:238:THR:OG1	9:UL:318:ARG:NH1	2.36	0.58
8:VG:97:GLU:HG3	8:VG:110:ILE:HD11	1.84	0.58
8:WI:206:ASN:OD1	67:WI:501:GTP:N2	2.36	0.58
57:YI:239:ASP:O	57:YI:243:ASN:ND2	2.36	0.58
63:m:55:MET:SD	63:m:55:MET:N	2.76	0.58
7:A1:130:THR:OG1	7:A1:131:PHE:N	2.36	0.58
7:A7:163:ILE:HG12	9:SD:310:TYR:HE2	1.68	0.58
8:AE:93:ILE:HD13	8:AE:118:VAL:HG12	1.84	0.58
13:Aa:48:LYS:NZ	13:Aa:50:MET:HE1	2.18	0.58
13:Ad:420:LEU:HB2	13:Ad:442:TYR:HB3	1.84	0.58
8:BC:140:SER:OG	67:BC:501:GTP:O2A	2.20	0.58
19:BR:254:LYS:HG3	54:S:217:TYR:HE1	1.69	0.58
9:CB:207:LEU:HD21	9:CB:300:MET:HE3	1.85	0.58
8:CI:8:HIS:HA	8:CI:138:PHE:HB2	1.86	0.58
8:CK:3:GLU:HA	8:CK:51:THR:HA	1.84	0.58
32:Cp:143:ILE:HG12	32:Cp:253:LEU:HD11	1.85	0.58
33:Cu:324:ARG:HG3	33:Cw:185:ILE:HD11	1.85	0.58
9:DF:375:GLN:NE2	9:DF:423:GLN:OE1	2.36	0.58
8:DG:168:GLU:HB2	8:DG:201:ALA:HA	1.84	0.58
9:DN:58:LYS:NZ	9:EN:281:TYR:HA	2.18	0.58
39:Di:77:GLU:OE1	39:Di:87:ARG:NH1	2.37	0.58
8:EE:48:SER:HB2	8:EE:243:ARG:HB2	1.85	0.58
8:GM:38:SER:OG	8:GM:39:ASP:N	2.36	0.58
8:IE:137:ILE:HG13	8:IE:154:MET:HE2	1.85	0.58
9:IF:69:GLU:HG3	9:IF:71:GLY:H	1.67	0.58
9:IF:290:THR:OG1	9:IF:329:GLN:NE2	2.37	0.58
9:IH:143:THR:O	9:IH:147:MET:HB3	2.04	0.58
9:JH:2:ARG:HB3	9:JH:131:GLN:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KB:77:ARG:HH12	9:KB:90:PHE:HE2	1.52	0.58
9:KF:210:ILE:HD11	9:KF:298:ASN:HA	1.85	0.58
8:LC:50:ASN:O	8:LC:64:ARG:NH1	2.36	0.58
9:MF:195:ASN:OD1	54:R:220:ARG:NH1	2.35	0.58
9:MH:327:ASP:HB3	8:MI:177:VAL:HG21	1.85	0.58
8:NA:213:CYS:HA	8:NA:217:LEU:HD23	1.86	0.58
8:NC:253:THR:O	8:NC:256:GLN:NE2	2.35	0.58
8:NG:269:LEU:HD11	8:NG:384:ILE:HD11	1.86	0.58
8:OA:139:HIS:NE2	8:OA:168:GLU:OE2	2.36	0.58
9:OL:354:CYS:SG	9:OL:355:ASP:N	2.75	0.58
52:P:28:LYS:NZ	8:TE:47:ASP:OD1	2.36	0.58
9:PH:250:LEU:HA	9:PH:253:LEU:HD12	1.85	0.58
9:QF:170:VAL:HG21	9:QF:377:LEU:HD21	1.84	0.58
8:RA:319:TYR:HB3	8:RA:323:VAL:HG21	1.85	0.58
9:RD:299:MET:SD	9:RD:299:MET:N	2.75	0.58
9:RL:324:LYS:HA	8:RM:210:TYR:HE1	1.67	0.58
67:SF:502:GTP:C6	8:SG:12:ALA:HA	2.38	0.58
8:VK:385:ALA:HA	8:VK:388:TRP:HD1	1.68	0.58
8:WG:381:THR:HG22	8:WG:383:ALA:H	1.68	0.58
56:XH:141:ARG:NH1	56:XH:147:ASN:HB3	2.17	0.58
60:e:129:LEU:HB3	60:e:143:TRP:HB2	1.85	0.58
62:j:37:GLN:O	62:j:42:ARG:NH1	2.36	0.58
66:w:345:GLU:HA	66:w:348:LYS:HE3	1.85	0.58
9:AF:48:ASN:O	9:AF:62:ARG:NH2	2.36	0.58
9:AJ:257:MET:HA	9:AJ:312:THR:HG21	1.85	0.58
13:Ac:273:TYR:N	13:Ac:317:GLU:OE1	2.36	0.58
9:BH:314:ALA:HB3	9:BH:368:ILE:HB	1.84	0.58
14:Bb:83:GLU:O	28:C6:101:ARG:NH2	2.36	0.58
9:CF:131:GLN:HE22	9:CF:250:LEU:H	1.49	0.58
8:CM:139:HIS:ND1	8:CM:146:GLY:O	2.35	0.58
9:DH:49:VAL:HG11	9:DH:241:ARG:HG2	1.84	0.58
9:DN:167:PHE:CZ	9:DN:233:MET:HB2	2.38	0.58
29:DX:162:GLU:HG2	29:DX:311:GLN:HG3	1.85	0.58
39:Dl:36:ARG:NH1	8:LM:441:GLU:OE1	2.36	0.58
43:E4:15:ARG:HH12	28:F3:442:GLU:HB3	1.69	0.58
8:EC:396:ASP:HB3	8:EC:422:ARG:HH22	1.69	0.58
9:ED:113:VAL:HG21	9:ED:150:LEU:HD22	1.86	0.58
8:EI:106:GLY:HA2	8:EI:111:GLY:HA3	1.85	0.58
9:FJ:61:PRO:HD3	9:FJ:84:ILE:HG22	1.84	0.58
9:GJ:350:LYS:HZ2	8:GK:181:VAL:H	1.51	0.58
9:HB:45:GLU:OE1	9:HB:46:ARG:NH1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:II:5:ILE:HD13	8:II:64:ARG:HB3	1.85	0.58
9:JD:248:ALA:HA	9:JD:252:LYS:HD3	1.84	0.58
9:JJ:275:SER:HG	9:JJ:278:SER:HG	1.49	0.58
8:JK:47:ASP:OD2	61:h:43:ARG:NH1	2.35	0.58
9:JL:355:ASP:OD1	9:JL:355:ASP:N	2.37	0.58
9:JN:83:GLN:O	9:MN:281:TYR:OH	2.15	0.58
8:LE:326:LYS:HD3	9:LF:220:PRO:HD2	1.86	0.58
9:LJ:114:ASP:OD1	9:LJ:114:ASP:N	2.35	0.58
8:MC:42:ILE:O	62:i:201:GLN:NE2	2.36	0.58
9:O0:63:ALA:O	9:O0:89:ASN:ND2	2.37	0.58
9:PD:22:GLU:HA	9:PD:81:PHE:HE2	1.69	0.58
8:PM:2:ARG:HB3	8:PM:242:LEU:HD11	1.86	0.58
9:QF:210:ILE:O	9:QF:214:THR:OG1	2.20	0.58
9:QH:379:LYS:HZ2	9:QH:419:VAL:HB	1.69	0.58
8:RA:346:TRP:HE1	9:RB:393:ALA:HB2	1.67	0.58
9:RH:293:MET:HE2	9:RH:365:ALA:HB1	1.85	0.58
9:RL:334:GLN:HE22	9:RL:348:ASN:H	1.51	0.58
8:RM:244:PHE:HE2	8:RM:358:GLN:HG2	1.68	0.58
8:SG:292:THR:HG23	8:SG:317:MET:HE1	1.85	0.58
9:SJ:334:GLN:HE21	9:SJ:349:VAL:HG23	1.68	0.58
8:TE:301:GLN:N	8:TE:301:GLN:OE1	2.36	0.58
8:UC:286:LEU:O	8:UC:373:ARG:NH1	2.36	0.58
9:UH:210:ILE:HD11	9:UH:298:ASN:HA	1.86	0.58
9:UJ:224:ASP:OD1	9:UJ:224:ASP:N	2.35	0.58
8:UK:385:ALA:HA	8:UK:388:TRP:HD1	1.68	0.58
9:VD:71:GLY:HA2	9:VD:74:ASP:HB2	1.86	0.58
8:WE:88:HIS:ND1	8:WE:90:GLU:OE1	2.36	0.58
63:k:38:ASP:HB2	63:k:41:MET:SD	2.44	0.58
2:0E:125:HIS:C	8:RK:84:ARG:HH22	2.10	0.58
8:AI:377:MET:HE3	8:AI:379:SER:HB3	1.86	0.58
8:AM:280:LYS:HG2	8:KO:89:PRO:HG2	1.84	0.58
12:AV:32:ASP:O	12:AV:51:LYS:NZ	2.37	0.58
8:BK:115:VAL:HA	8:BK:118:VAL:HG22	1.85	0.58
8:BM:289:ALA:O	8:BM:293:ASN:ND2	2.36	0.58
19:BR:161:THR:HG23	19:BR:217:MET:HE1	1.84	0.58
28:C5:206:MET:HG3	28:C5:461:VAL:HG23	1.84	0.58
8:CK:317:MET:HB2	8:CK:353:VAL:HA	1.85	0.58
29:D1:409:GLU:HG3	29:D2:263:ALA:HB2	1.85	0.58
29:D5:176:ILE:HD13	29:D5:321:ARG:HG3	1.86	0.58
9:DH:44:LEU:HD12	9:DH:47:ILE:HG13	1.86	0.58
29:DX:453:ARG:HH21	29:DX:454:LEU:HD13	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EI:68:VAL:HG23	8:EI:93:ILE:HD11	1.86	0.58
8:FE:172:TYR:HB3	8:FE:205:ASP:HB3	1.86	0.58
8:FE:313:MET:HG2	8:FE:346:TRP:HZ2	1.68	0.58
8:FE:328:VAL:HG11	8:FE:353:VAL:HG21	1.86	0.58
8:FI:200:CYS:HA	8:FI:266:HIS:HB2	1.85	0.58
9:FN:253:LEU:HD23	9:FN:350:LYS:HE3	1.84	0.58
8:HK:2:ARG:HH12	9:HL:69:GLU:HG2	1.69	0.58
9:IJ:161:ASP:OD2	9:IJ:161:ASP:N	2.36	0.58
9:IN:11:GLN:OE1	9:IN:72:THR:OG1	2.20	0.58
8:MI:223:THR:HG23	8:MI:225:THR:H	1.68	0.58
9:OD:319:GLY:HA2	9:OD:357:PRO:HD3	1.86	0.58
8:OE:239:THR:OG1	8:OE:243:ARG:NH1	2.35	0.58
67:OF:502:GTP:N2	8:OG:206:ASN:OD1	2.35	0.58
9:OJ:354:CYS:SG	9:OJ:355:ASP:N	2.76	0.58
9:PJ:247:ASN:ND2	8:PK:73:THR:OG1	2.34	0.58
9:QF:174:LYS:HG3	9:QF:175:VAL:HG23	1.84	0.58
8:QI:51:THR:HG21	8:QI:243:ARG:HG2	1.86	0.58
9:QJ:257:MET:O	9:QJ:370:ASN:ND2	2.37	0.58
8:QM:91:GLN:HA	8:QM:121:ARG:HD3	1.85	0.58
8:QM:264:ARG:HH21	8:QM:428:LEU:HD13	1.69	0.58
9:RH:180:VAL:HG13	9:RH:184:ASN:HD21	1.67	0.58
8:SA:14:VAL:HG22	8:SA:67:PHE:HD2	1.67	0.58
9:TB:286:VAL:HG23	9:TB:287:PRO:HD3	1.86	0.58
9:UD:32:PRO:HD3	9:UD:81:PHE:CE1	2.32	0.58
9:UN:273:LEU:O	9:UN:292:GLN:NE2	2.32	0.58
8:VI:392:ASP:HB2	8:VI:425:LEU:HD23	1.85	0.58
8:WC:346:TRP:HZ3	9:WD:394:PHE:HE1	1.52	0.58
9:WJ:323:MET:HE1	8:WK:224:TYR:CG	2.37	0.58
9:WN:293:MET:HE3	9:WN:367:PHE:HB2	1.84	0.58
60:e:180:ALA:HB1	60:e:184:THR:HG23	1.84	0.58
3:1:159:ARG:NH1	3:1:168:SER:OG	2.35	0.58
7:A5:33:PRO:O	8:RG:215:ARG:NH2	2.37	0.58
8:AC:143:GLY:O	8:AC:147:SER:OG	2.21	0.58
15:Aq:137:TYR:O	32:Co:152:ARG:NH1	2.36	0.58
18:B5:193:ASP:OD1	18:B5:193:ASP:N	2.35	0.58
9:BB:1:MET:HB2	9:BB:48:ASN:HD21	1.69	0.58
8:BC:43:GLY:HA2	47:X:222:LYS:HA	1.83	0.58
26:Bq:114:LYS:O	26:Bq:118:GLU:HB2	2.04	0.58
27:Bs:241:THR:O	27:Bs:245:ILE:HG12	2.03	0.58
9:CJ:37:HIS:NE2	48:K:49:CYS:SG	2.70	0.58
9:CL:153:SER:HA	9:CL:195:ASN:HD22	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CO:34:THR:HB	14:CO:37:ARG:HB2	1.86	0.58
29:D5:154:PHE:HB2	29:D9:136:GLN:HE21	1.69	0.58
8:DM:107:HIS:HA	8:DM:152:LEU:HD12	1.84	0.58
38:Dg:141:GLN:NE2	38:Dg:149:GLY:O	2.36	0.58
39:Dl:89:CYS:SG	39:Dl:90:HIS:N	2.77	0.58
42:E:835:ASP:OD1	42:E:835:ASP:N	2.36	0.58
8:EG:238:ILE:HD11	8:EG:378:LEU:HD11	1.84	0.58
28:F4:233:MET:HE2	28:F4:332:THR:HG21	1.85	0.58
9:FD:314:ALA:HB3	9:FD:368:ILE:HB	1.86	0.58
9:FH:86:ARG:HH11	9:FH:122:LYS:HZ1	1.49	0.58
9:FH:282:ARG:NH2	9:FH:288:GLU:OE2	2.36	0.58
9:FJ:289:LEU:O	9:FJ:293:MET:HB2	2.03	0.58
8:FM:269:LEU:HD11	8:FM:384:ILE:HD11	1.85	0.58
8:GK:11:GLN:HG3	8:GK:74:VAL:HG21	1.85	0.58
9:HD:65:LEU:HD12	9:HD:90:PHE:CE2	2.38	0.58
8:IG:290:GLU:HA	8:IG:293:ASN:HB2	1.84	0.58
8:II:262:TYR:HD2	8:II:265:ILE:HD12	1.68	0.58
9:JJ:100:ASN:HB3	9:JJ:103:LYS:HG2	1.85	0.58
8:JK:183:GLU:HG3	8:JK:184:PRO:HD3	1.85	0.58
48:K:99:PRO:HG2	48:K:102:GLU:HB2	1.86	0.58
8:LI:262:TYR:OH	9:LJ:391:ARG:O	2.19	0.58
9:ML:211:CYS:HA	9:ML:215:LEU:HB2	1.86	0.58
9:ML:350:LYS:HD2	9:ML:351:THR:N	2.18	0.58
8:NE:184:PRO:HG2	8:NE:394:LYS:HG2	1.86	0.58
9:NJ:166:THR:HG23	9:NJ:199:THR:HG23	1.84	0.58
8:OC:226:ASN:N	8:OC:226:ASN:HD22	2.01	0.58
8:OE:320:ARG:HB2	8:OE:374:ALA:HB3	1.86	0.58
9:OF:328:GLU:O	9:OF:332:ASN:ND2	2.37	0.58
9:OF:354:CYS:SG	9:OF:355:ASP:N	2.76	0.58
9:PD:27:GLU:OE1	9:PD:241:ARG:NH2	2.36	0.58
9:PL:20:PHE:CZ	9:PL:233:MET:HG2	2.39	0.58
9:QB:267:MET:HG3	9:QB:301:ALA:HB3	1.86	0.58
8:QE:244:PHE:CE2	8:QE:358:GLN:HG2	2.39	0.58
8:QI:317:MET:HB2	8:QI:353:VAL:HA	1.85	0.58
8:RA:313:MET:HG2	8:RA:380:ASN:HB3	1.84	0.58
9:RD:8:GLN:NE2	9:RD:13:GLY:O	2.36	0.58
8:RE:188:ILE:HD12	8:RE:391:LEU:HD13	1.85	0.58
9:SL:330:MET:HB3	9:SL:349:VAL:HG11	1.86	0.58
9:TD:128:ASP:OD1	9:TD:128:ASP:N	2.37	0.58
9:TJ:217:LEU:HD13	9:TJ:220:PRO:HG3	1.84	0.58
9:UF:147:MET:HA	9:UF:150:LEU:HG	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UG:2:ARG:NH1	9:UH:69:GLU:OE1	2.25	0.58
9:UN:267:MET:HB2	9:UN:374:ILE:HD11	1.86	0.58
8:VE:255:PHE:O	8:VE:259:LEU:HB2	2.04	0.58
9:VL:322:SER:OG	8:VM:222:PRO:O	2.22	0.58
9:VL:387:ALA:HA	9:VL:390:ARG:HH12	1.68	0.58
9:WB:153:SER:HA	9:WB:195:ASN:HD22	1.68	0.58
7:A9:110:LYS:HD3	8:SA:113:GLU:HG3	1.86	0.58
8:BM:79:ARG:HH22	8:BM:94:THR:HG22	1.69	0.58
14:Bc:296:ASN:OD1	14:Bc:307:LYS:NZ	2.36	0.58
21:Bk:361:THR:O	9:KJ:362:LYS:NZ	2.36	0.58
26:Bu:287:LEU:HB3	26:Bu:289:LEU:HD13	1.85	0.58
28:C3:275:ARG:NH2	32:Co:78:ASP:OD2	2.37	0.58
9:CJ:213:ARG:HG3	9:CJ:297:LYS:NZ	2.17	0.58
2:Cc:132:ARG:NH2	2:Cc:133:ASN:HD21	2.01	0.58
32:Cn:244:ARG:O	32:Cn:248:GLN:HG3	2.04	0.58
9:DB:16:ILE:HD13	9:DB:136:THR:HG21	1.85	0.58
9:DD:121:ARG:NH1	9:DD:158:GLU:OE2	2.37	0.58
9:DH:10:GLY:O	9:DH:14:ASN:ND2	2.36	0.58
9:DJ:355:ASP:HB3	9:DJ:356:ILE:HD12	1.84	0.58
43:E1:70:SER:OG	43:E1:86:PRO:O	2.19	0.58
9:ED:135:LEU:HD22	9:ED:152:ILE:HD11	1.85	0.58
44:ES:319:GLU:OE2	44:ES:323:ARG:NH2	2.31	0.58
44:ET:134:GLN:HB3	44:ET:282:ILE:HG21	1.86	0.58
44:EY:259:LYS:HA	44:EY:262:GLN:OE1	2.03	0.58
8:FC:228:ASN:ND2	67:FC:501:GTP:HN1	2.02	0.58
8:FK:274:PRO:HG3	8:FK:374:ALA:HA	1.85	0.58
9:GJ:130:LEU:O	9:GJ:162:ARG:NH2	2.36	0.58
9:HB:170:VAL:HG11	9:HB:377:LEU:HD21	1.85	0.58
8:HK:352:LYS:HZ1	9:HL:178:THR:HG23	1.69	0.58
9:HL:330:MET:HB3	9:HL:349:VAL:HG21	1.85	0.58
8:IE:2:ARG:NH1	9:IF:69:GLU:OE2	2.37	0.58
8:IK:47:ASP:OD1	8:IK:47:ASP:N	2.36	0.58
9:IL:246:LEU:HD11	67:IM:501:GTP:H5”	1.86	0.58
9:JB:27:GLU:OE2	9:JB:241:ARG:NH1	2.33	0.58
9:JF:311:LEU:HD23	9:JF:342:VAL:HG11	1.84	0.58
9:JF:337:ASN:ND2	51:N:15:PHE:O	2.36	0.58
8:KC:76:ASP:HA	8:KC:79:ARG:HD2	1.86	0.58
9:LB:51:TYR:HB3	9:LB:59:TYR:HB3	1.85	0.58
8:MC:217:LEU:HD21	8:MC:368:LEU:HD23	1.85	0.58
9:MF:247:ASN:ND2	8:MG:71:GLU:OE2	2.36	0.58
8:MM:47:ASP:HB2	1:V:186:ARG:HG2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NF:232:THR:HG21	9:NF:268:PRO:HB2	1.85	0.58
8:NI:300:ASN:C	8:NI:300:ASN:HD22	2.12	0.58
9:OH:258:VAL:HG23	8:OI:407:TRP:HE1	1.68	0.58
8:PG:139:HIS:ND1	8:PG:146:GLY:O	2.32	0.58
8:QE:19:ALA:HB1	8:QE:229:ARG:HE	1.69	0.58
9:RB:156:ARG:HD3	9:RB:164:MET:HG3	1.86	0.58
8:RC:5:ILE:HD13	8:RC:125:LEU:HB3	1.85	0.58
8:RG:147:SER:O	8:RG:151:SER:OG	2.21	0.58
9:RJ:271:ALA:HB2	9:RJ:293:MET:HE2	1.85	0.58
8:SA:269:LEU:HD23	8:SA:301:GLN:HE21	1.68	0.58
8:SC:226:ASN:ND2	8:SC:367:ASP:OD2	2.36	0.58
8:SG:250:VAL:HG11	8:SG:318:LEU:HD11	1.85	0.58
8:SG:276:ILE:HD11	8:SG:280:LYS:HB2	1.86	0.58
9:TF:309:ARG:NH1	9:TF:339:SER:O	2.35	0.58
9:TH:1:MET:SD	9:TH:1:MET:N	2.74	0.58
9:TH:221:THR:HG23	9:TH:223:GLY:H	1.67	0.58
9:TJ:101:TRP:HZ3	9:TJ:106:TYR:HE1	1.52	0.58
9:TL:95:SER:OG	9:TL:108:GLU:OE1	2.22	0.58
9:UH:52:ASN:OD1	9:UH:62:ARG:NH2	2.36	0.58
8:UK:209:ILE:HA	8:UK:212:ILE:HG22	1.85	0.58
9:VD:237:THR:O	9:VD:241:ARG:NH1	2.37	0.58
9:WD:205:GLU:OE2	9:WD:205:GLU:N	2.36	0.58
8:WM:386:GLU:OE2	8:WM:390:ARG:NH2	2.37	0.58
47:X:124:TYR:OH	47:X:129:ASP:OD1	2.14	0.58
59:b:234:ARG:HH21	59:b:238:VAL:HG23	1.69	0.58
7:A4:246:MET:HA	9:QH:93:GLY:HA2	1.85	0.58
8:AC:251:ASP:OD1	8:AC:252:LEU:N	2.36	0.58
8:AK:98:ASP:OD1	8:AK:100:ALA:N	2.36	0.58
13:Ac:513:GLU:HA	13:Ac:516:LEU:HB2	1.86	0.58
7:Av:243:SER:O	9:OF:213:ARG:NH1	2.37	0.58
7:Ay:156:VAL:O	8:FE:96:LYS:NZ	2.35	0.58
19:BO:247:LEU:HG	19:BR:400:MET:HE3	1.84	0.58
8:CE:286:LEU:O	8:CE:373:ARG:NH1	2.36	0.58
9:CH:251:ARG:HG3	8:CI:100:ALA:HB2	1.85	0.58
8:CK:437:VAL:O	9:CL:391:ARG:NH1	2.36	0.58
33:Cv:210:ASN:ND2	29:EA:355:ASP:OD2	2.33	0.58
29:D5:269:LYS:NZ	29:D7:401:CYS:SG	2.72	0.58
8:DC:139:HIS:ND1	8:DC:140:SER:O	2.37	0.58
9:ED:91:VAL:HG21	9:ED:116:VAL:HG22	1.86	0.58
9:FD:211:CYS:HA	9:FD:215:LEU:HB2	1.86	0.58
9:FD:219:THR:OG1	47:X:457:ARG:NH1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FK:3:GLU:HB2	8:FK:132:LEU:HA	1.84	0.58
9:FN:314:ALA:HB3	9:FN:368:ILE:HB	1.85	0.58
9:GD:54:ALA:HA	9:HD:283:ALA:HB2	1.86	0.58
8:HI:251:ASP:N	8:HI:254:GLU:OE2	2.37	0.58
8:HM:311:LYS:H	8:HM:382:THR:HB	1.69	0.58
8:KC:27:GLU:OE2	8:KC:243:ARG:NH2	2.30	0.58
8:LC:47:ASP:OD1	8:LC:47:ASP:N	2.37	0.58
48:M:104:PRO:HB2	48:M:126:TYR:HE2	1.68	0.58
8:MI:258:ASN:HB3	9:MJ:179:VAL:HG12	1.86	0.58
8:MK:207:GLU:HA	8:MK:210:TYR:HB2	1.85	0.58
8:OC:245:ASP:N	8:OC:245:ASP:OD1	2.35	0.58
9:OF:324:LYS:CE	8:OG:222:PRO:HD2	2.32	0.58
9:PD:19:LYS:NZ	9:PD:223:GLY:O	2.37	0.58
8:PI:241:SER:OG	8:PI:250:VAL:O	2.19	0.58
9:PJ:67:ASP:HA	9:PJ:143:THR:HG21	1.85	0.58
9:QB:153:SER:HB3	9:QB:191:GLN:HE22	1.69	0.58
8:QC:381:THR:HG22	8:QC:383:ALA:H	1.67	0.58
9:QH:86:ARG:HD2	9:RH:282:ARG:HH12	1.68	0.58
9:RB:97:ALA:O	9:RB:100:ASN:ND2	2.37	0.58
8:SI:180:ALA:HB3	8:SI:183:GLU:HG3	1.85	0.58
9:SL:213:ARG:HA	9:SL:216:LYS:HZ2	1.69	0.58
8:SM:88:HIS:NE2	8:TM:284:GLU:OE1	2.36	0.58
8:TI:22:GLU:OE1	8:TI:83:TYR:OH	2.21	0.58
8:UI:236:SER:O	8:UI:243:ARG:NH2	2.37	0.58
9:UL:282:ARG:NH2	9:UL:292:GLN:OE1	2.37	0.58
9:VB:196:THR:OG1	9:VB:264:HIS:NE2	2.36	0.58
9:VF:287:PRO:HB3	9:VF:329:GLN:HE22	1.68	0.58
8:VG:338:LYS:HG3	8:VG:341:ILE:HG22	1.84	0.58
8:WM:63:PRO:O	8:WM:91:GLN:NE2	2.36	0.58
60:g:119:ALA:HB1	60:g:167:VAL:HG22	1.85	0.58
63:m:24:ILE:HG12	63:m:30:LEU:HD23	1.86	0.58
2:0E:92:PRO:O	2:0E:96:ASN:ND2	2.36	0.58
3:1:109:GLY:O	3:1:113:ARG:N	2.36	0.58
7:Ay:69:ARG:NH1	8:FI:160:ASP:OD1	2.37	0.58
9:BD:304:ASP:OD1	9:BD:306:ARG:NH2	2.36	0.58
33:Cw:158:ALA:HA	33:Cw:239:LEU:HD21	1.86	0.58
29:D5:134:THR:OG1	29:D7:388:LYS:NZ	2.37	0.58
43:E4:113:LEU:HD21	28:F3:415:MET:HB3	1.86	0.58
8:FI:176:GLN:OE1	8:FI:177:VAL:N	2.37	0.58
8:FK:9:VAL:HG11	8:FK:150:ALA:HB2	1.86	0.58
8:FK:395:LEU:HD23	8:FK:422:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:155:GLU:HA	8:HC:197:HIS:HD2	1.67	0.58
9:IF:7:LEU:HD23	9:IF:64:VAL:HB	1.85	0.58
9:JJ:271:ALA:O	9:JJ:292:GLN:NE2	2.37	0.58
8:KE:137:ILE:HG13	8:KE:154:MET:HE1	1.86	0.58
8:KO:56:THR:HG22	8:KO:58:ALA:H	1.69	0.58
9:MF:392:LYS:HD2	9:MF:395:LEU:HD22	1.86	0.58
8:NG:301:GLN:NE2	8:NG:303:VAL:O	2.37	0.58
8:NK:119:LEU:HD11	8:NK:156:ARG:HG2	1.85	0.58
8:OK:5:ILE:HD13	8:OK:64:ARG:HB3	1.85	0.58
9:OL:172:SER:OG	9:OL:175:VAL:O	2.21	0.58
9:PF:173:PRO:HA	9:PF:380:ARG:HH12	1.69	0.58
9:PL:142:GLY:N	69:PL:501:GDP:O2B	2.33	0.58
9:QL:210:ILE:O	9:QL:214:THR:OG1	2.20	0.58
9:RB:31:ASP:OD1	9:RB:35:THR:N	2.37	0.58
9:RJ:236:VAL:HG22	9:RJ:368:ILE:HD11	1.85	0.58
8:SE:224:TYR:HE2	67:SE:501:GTP:C6	2.21	0.58
9:UD:74:ASP:OD1	9:UD:74:ASP:N	2.36	0.58
9:UN:113:VAL:O	9:UN:117:LEU:HB2	2.04	0.58
9:WD:49:VAL:HG11	9:WD:241:ARG:HG2	1.85	0.58
9:WH:207:LEU:HB3	9:WH:225:LEU:HD22	1.86	0.58
8:WK:286:LEU:O	8:WK:373:ARG:NH1	2.36	0.58
9:WL:358:PRO:HB2	9:WL:361:LEU:HD13	1.86	0.58
56:XG:173:SER:OG	56:XG:174:GLU:N	2.37	0.58
56:XH:14:LEU:HD21	56:XH:47:LEU:HD12	1.86	0.58
56:XM:81:LYS:HD3	56:XM:161:ARG:HD2	1.86	0.58
60:g:202:CYS:SG	60:g:235:MET:HE3	2.44	0.58
63:m:128:LEU:HD11	63:m:152:LEU:HD13	1.85	0.58
2:0W:130:GLU:HA	2:0W:134:HIS:HB2	1.86	0.58
13:Aa:98:THR:HG21	13:Aa:119:ARG:HG2	1.86	0.58
7:Ay:136:THR:OG1	8:GE:338:LYS:NZ	2.33	0.58
17:B9:14:THR:HG21	9:NF:245:GLN:HE21	1.68	0.58
8:BK:186:ASN:OD1	8:BK:408:TYR:OH	2.21	0.58
27:Br:58:ARG:HA	27:Br:61:GLN:HG3	1.85	0.58
8:CI:24:TYR:HA	8:CI:27:GLU:HG2	1.85	0.58
8:CI:274:PRO:HG3	8:CI:374:ALA:HA	1.86	0.58
9:CL:45:GLU:HG2	9:CL:46:ARG:HG2	1.86	0.58
2:Cj:16:TYR:O	2:Cj:20:GLN:N	2.37	0.58
9:DL:55:THR:OG1	9:EL:362:LYS:NZ	2.29	0.58
9:DN:104:GLY:HA2	9:DN:108:GLU:HB3	1.86	0.58
36:Db:191:ARG:O	57:YK:218:ARG:NH2	2.37	0.58
8:HK:217:LEU:HG	8:HK:219:ILE:HG22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IG:178:SER:OG	8:IG:179:THR:N	2.37	0.58
9:IL:237:THR:OG1	9:IL:241:ARG:NH1	2.37	0.58
9:JD:207:LEU:HD13	9:JD:225:LEU:HB3	1.86	0.58
9:KB:139:LEU:HA	9:KB:145:SER:HB3	1.86	0.58
9:ML:224:ASP:OD1	62:j:167:ARG:NH2	2.36	0.58
8:MM:60:LYS:NZ	8:MM:85:GLN:O	2.29	0.58
51:N:110:THR:HG23	51:N:114:HIS:HB2	1.86	0.58
9:NF:324:LYS:HB3	8:NG:222:PRO:HD2	1.84	0.58
9:OF:328:GLU:OE2	9:OF:332:ASN:ND2	2.37	0.58
8:PA:76:ASP:HA	8:PA:79:ARG:HG2	1.85	0.58
9:PB:237:THR:OG1	9:PB:241:ARG:NH1	2.37	0.58
8:PE:155:GLU:HA	8:PE:197:HIS:CE1	2.39	0.58
8:PG:9:VAL:HG13	8:PG:139:HIS:HB3	1.86	0.58
9:SF:62:ARG:NH2	9:SF:127:CYS:SG	2.77	0.58
9:SF:278:SER:OG	9:SF:282:ARG:NH1	2.37	0.58
9:SH:282:ARG:NH1	9:SH:292:GLN:OE1	2.36	0.58
9:UB:170:VAL:HG23	9:UB:203:ASP:HB3	1.86	0.58
8:UI:141:PHE:CE1	8:UI:190:THR:HB	2.39	0.58
9:UJ:303:CYS:SG	9:UJ:377:LEU:HD11	2.43	0.58
8:VE:1:MET:SD	8:VE:1:MET:N	2.76	0.58
8:WI:229:ARG:NH1	8:WI:365:GLY:O	2.37	0.58
47:Y:131:MET:HE2	47:Y:154:LEU:HD12	1.86	0.58
59:b:524:ARG:NE	59:b:533:CYS:SG	2.74	0.58
3:2:79:ILE:HG13	3:2:87:TYR:HB2	1.86	0.57
6:A0:179:PRO:HG2	9:ID:329:GLN:HE22	1.69	0.57
16:Ax:90:THR:OG1	16:Ax:91:PHE:N	2.37	0.57
19:BO:95:LEU:HD21	8:MM:430:LYS:HE3	1.85	0.57
28:C0:394:LYS:HD3	28:C9:283:TYR:CD1	2.37	0.57
28:C0:446:GLN:HG2	28:F6:285:HIS:CE1	2.39	0.57
28:C7:170:GLU:HG2	28:C7:315:ARG:HG3	1.85	0.57
2:Cj:115:ARG:NH1	2:Cj:131:ALA:O	2.36	0.57
32:Cm:66:ARG:NH2	32:Cn:329:CYS:SG	2.77	0.57
33:Cu:61:ARG:NH1	33:Cy:317:ARG:HH12	2.02	0.57
8:DE:259:LEU:HD11	8:DE:378:LEU:HB2	1.85	0.57
9:DF:91:VAL:HG11	9:DF:116:VAL:HG12	1.86	0.57
9:DJ:8:GLN:NE2	9:DJ:17:GLY:HA3	2.18	0.57
8:EC:11:GLN:NE2	8:EC:15:GLN:OE1	2.37	0.57
8:EC:381:THR:HG22	8:EC:383:ALA:H	1.69	0.57
8:EE:306:ASP:HB3	8:EE:309:HIS:CE1	2.38	0.57
9:EH:152:ILE:HG21	9:EH:196:THR:HG22	1.86	0.57
8:EM:50:ASN:O	8:EM:64:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EP:381:LEU:HD23	29:ER:127:MET:HE3	1.85	0.57
8:FI:134:GLY:HA3	8:FI:252:LEU:HD12	1.85	0.57
8:FM:55:GLU:O	8:GM:285:GLN:NE2	2.37	0.57
8:GG:88:HIS:CD2	8:GG:90:GLU:H	2.22	0.57
9:GJ:2:ARG:HH12	8:GK:72:PRO:HD2	1.69	0.57
8:GK:98:ASP:O	8:GK:105:ARG:NH1	2.37	0.57
9:HB:46:ARG:HH21	8:HC:72:PRO:HG2	1.68	0.57
8:HG:202:PHE:HZ	8:HG:378:LEU:HD13	1.69	0.57
8:IO:56:THR:HG22	8:IO:58:ALA:H	1.69	0.57
8:IO:337:THR:C	8:IO:338:LYS:HD3	2.29	0.57
9:JL:267:MET:HE1	9:JL:305:PRO:HG3	1.86	0.57
8:KG:203:MET:HE2	8:KG:384:ILE:HD11	1.85	0.57
9:LD:27:GLU:OE2	9:LD:241:ARG:NH1	2.34	0.57
8:LI:64:ARG:NH1	8:LI:129:CYS:SG	2.77	0.57
9:LJ:311:LEU:O	9:LJ:348:ASN:ND2	2.37	0.57
9:MD:322:SER:HB2	8:ME:223:THR:HA	1.85	0.57
9:O0:27:GLU:OE2	9:O0:241:ARG:NH1	2.37	0.57
8:PG:275:VAL:HA	8:PG:368:LEU:HD21	1.86	0.57
9:QH:354:CYS:SG	9:QH:355:ASP:N	2.77	0.57
9:QL:113:VAL:O	9:QL:117:LEU:HB3	2.04	0.57
8:SE:127:ASP:OD1	8:TE:293:ASN:ND2	2.36	0.57
8:SG:27:GLU:HG2	8:SG:243:ARG:HH21	1.69	0.57
8:SG:175:PRO:HB3	8:SG:394:LYS:HD2	1.85	0.57
9:SJ:290:THR:HA	9:SJ:293:MET:HB2	1.86	0.57
9:TF:282:ARG:HD2	9:TF:288:GLU:HG3	1.84	0.57
9:TF:314:ALA:HB3	9:TF:368:ILE:HB	1.86	0.57
8:TG:16:ILE:HD11	8:TG:138:PHE:HB3	1.85	0.57
8:TG:406:HIS:HA	8:TG:409:VAL:HG22	1.86	0.57
9:TL:130:LEU:O	9:TL:162:ARG:NH1	2.37	0.57
8:VE:362:VAL:HG21	8:VE:370:LYS:HZ2	1.68	0.57
9:VF:261:PRO:HB3	8:VG:406:HIS:CD2	2.39	0.57
9:VH:292:GLN:HG2	9:VH:298:ASN:HD22	1.68	0.57
8:WI:213:CYS:HA	8:WI:217:LEU:HD12	1.86	0.57
7:A1:226:VAL:HG12	8:OA:113:GLU:HB3	1.85	0.57
7:A1:230:ARG:NH1	8:PA:214:ARG:O	2.36	0.57
9:AB:314:ALA:HB3	9:AB:368:ILE:HB	1.86	0.57
9:AF:117:LEU:HA	9:AF:120:VAL:HG22	1.85	0.57
8:AK:311:LYS:H	8:AK:382:THR:HB	1.70	0.57
12:AW:345:ILE:HG13	12:AW:346:PHE:CD2	2.38	0.57
18:B6:97:HIS:ND1	18:B6:97:HIS:O	2.36	0.57
8:BE:165:SER:OG	8:BE:199:ASP:OD2	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Bh:78:TYR:OH	8:GG:322:ASP:OD1	2.22	0.57
29:C1:393:LYS:HE2	29:DP:281:SER:C	2.29	0.57
9:CB:271:ALA:HB2	9:CB:293:MET:HE2	1.86	0.57
8:CG:414:GLU:N	8:CG:414:GLU:OE1	2.37	0.57
8:CM:88:HIS:HB3	8:CM:91:GLN:HB2	1.85	0.57
14:CO:215:GLN:NE2	14:CO:225:PHE:O	2.35	0.57
33:Cr:60:ASN:ND2	33:Ct:341:GLU:OE1	2.37	0.57
9:DB:252:LYS:HG3	9:DB:350:LYS:HE3	1.86	0.57
8:DE:392:ASP:OD1	8:DE:422:ARG:NH2	2.36	0.57
8:DI:1:MET:N	8:DI:3:GLU:OE2	2.37	0.57
29:DT:50:ALA:HB1	63:m:79:ARG:HH11	1.68	0.57
9:EB:238:THR:OG1	9:EB:318:ARG:NH1	2.36	0.57
9:ED:314:ALA:HB3	9:ED:368:ILE:HB	1.85	0.57
44:EX:249:GLU:OE1	28:F3:262:GLN:NE2	2.37	0.57
8:FE:180:ALA:HB3	8:FE:183:GLU:HG3	1.85	0.57
45:G:203:ARG:NH1	9:HL:74:ASP:OD2	2.37	0.57
9:HF:189:VAL:HA	9:HF:192:LEU:HB2	1.86	0.57
47:I:41:ARG:O	9:LH:77:ARG:NH2	2.37	0.57
8:IK:261:PRO:O	9:IL:396:HIS:NE2	2.34	0.57
9:JJ:311:LEU:O	9:JJ:348:ASN:ND2	2.34	0.57
9:LN:193:VAL:HG12	9:LN:194:GLU:HG3	1.86	0.57
9:MJ:412:GLU:OE1	9:MJ:416:ASN:ND2	2.35	0.57
8:NA:60:LYS:NZ	8:NA:61:HIS:O	2.36	0.57
9:OD:324:LYS:NZ	9:OD:328:GLU:OE1	2.36	0.57
52:P:50:GLU:HB2	46:o:422:ARG:HH12	1.69	0.57
8:PC:181:VAL:HG23	8:PC:182:VAL:HG13	1.84	0.57
8:PE:11:GLN:HA	8:PE:14:VAL:HG12	1.84	0.57
8:PG:239:THR:O	8:PG:243:ARG:NH1	2.37	0.57
9:PH:334:GLN:HE22	9:PH:348:ASN:H	1.51	0.57
9:PL:27:GLU:OE1	9:PL:241:ARG:NH1	2.37	0.57
9:QD:170:VAL:HG11	9:QD:377:LEU:HD11	1.85	0.57
9:QF:3:GLU:HB2	9:QF:127:CYS:HB2	1.86	0.57
9:QF:5:VAL:HG21	9:QF:124:ALA:HA	1.87	0.57
8:QG:214:ARG:HH11	8:QG:214:ARG:HG2	1.69	0.57
54:R:221:SER:O	54:R:225:ARG:HB2	2.04	0.57
9:RD:371:SER:O	9:RD:422:TYR:OH	2.22	0.57
9:SB:178:THR:HB	9:SB:181:GLU:HG3	1.84	0.57
8:TK:255:PHE:HB2	8:TK:259:LEU:HD13	1.85	0.57
8:UI:180:ALA:HB3	8:UI:183:GLU:HG3	1.86	0.57
8:UK:207:GLU:HA	8:UK:210:TYR:HD2	1.69	0.57
9:UN:321:MET:HE3	9:UN:363:MET:HG2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VG:240:ALA:HA	8:VG:243:ARG:HH21	1.68	0.57
9:VH:112:LEU:HB3	9:VH:147:MET:HE1	1.86	0.57
8:VI:103:TYR:O	8:VI:107:HIS:HB2	2.03	0.57
9:WL:375:GLN:HE22	9:WL:423:GLN:HG2	1.70	0.57
56:XJ:91:VAL:HG12	56:XJ:154:VAL:HG12	1.86	0.57
56:XL:50:GLU:HA	56:XL:159:ASN:H	1.68	0.57
2:0Y:34:ARG:HH21	2:0Y:40:LYS:HE3	1.69	0.57
7:A4:165:GLY:H	9:RL:306:ARG:HH21	1.51	0.57
12:AW:152:PHE:CD1	12:AW:202:LYS:HE3	2.39	0.57
13:Ab:217:ARG:NH1	8:CI:41:THR:OG1	2.37	0.57
16:Ax:160:ARG:HH21	9:FB:336:LYS:HA	1.69	0.57
8:BK:97:GLU:OE1	8:BK:105:ARG:NH2	2.37	0.57
28:C9:467:TYR:HA	44:EZ:7:LEU:HD23	1.87	0.57
8:CA:115:VAL:HG21	8:CA:152:LEU:HD23	1.85	0.57
9:CB:1:MET:SD	9:CB:1:MET:N	2.74	0.57
9:CB:256:ASN:HD21	8:CC:101:ASN:HD22	1.49	0.57
9:CB:265:PHE:HB3	9:CB:374:ILE:HD13	1.86	0.57
9:CL:245:GLN:O	8:CM:11:GLN:NE2	2.38	0.57
14:CO:239:ASP:OD1	14:CO:239:ASP:N	2.37	0.57
2:CZ:106:SER:OG	2:CZ:107:GLN:N	2.36	0.57
2:Cg:104:LEU:O	2:Cg:109:ASN:ND2	2.37	0.57
31:Cl:363:SER:OG	8:HE:218:ASP:OD1	2.20	0.57
33:Cs:198:ASN:HA	43:E4:142:ARG:HH22	1.68	0.57
29:D9:247:ARG:NH1	29:EQ:196:GLU:OE2	2.29	0.57
8:DI:115:VAL:HG21	8:DI:152:LEU:HD22	1.85	0.57
8:DM:132:LEU:O	8:DM:164:LYS:NZ	2.38	0.57
29:DQ:274:ARG:NH1	29:DQ:275:ASN:O	2.38	0.57
40:Dm:78:THR:H	40:Dm:81:GLN:HE21	1.52	0.57
43:E2:43:ILE:HG22	43:E2:115:GLU:HG2	1.86	0.57
8:EC:326:LYS:NZ	9:ED:208:TYR:O	2.36	0.57
8:EE:274:PRO:HG3	8:EE:374:ALA:HA	1.85	0.57
8:EG:343:PHE:HZ	8:EG:351:PHE:HE1	1.50	0.57
8:FM:251:ASP:H	8:FM:254:GLU:HB2	1.69	0.57
9:GD:248:ALA:HA	9:GD:252:LYS:HZ3	1.68	0.57
9:GL:238:THR:OG1	9:GL:318:ARG:NH1	2.37	0.57
9:HD:228:LEU:HD23	9:HD:300:MET:HE1	1.86	0.57
9:HF:314:ALA:HB3	9:HF:368:ILE:HB	1.86	0.57
47:I:424:ALA:HB3	47:I:438:PHE:HB2	1.85	0.57
8:IC:79:ARG:NH2	8:IC:92:LEU:O	2.37	0.57
9:IN:125:GLU:OE2	9:IN:159:TYR:OH	2.15	0.57
8:IO:81:GLY:O	8:IO:84:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JK:417:GLU:N	8:JK:417:GLU:OE2	2.38	0.57
9:KD:354:CYS:SG	9:KD:355:ASP:N	2.76	0.57
9:MJ:27:GLU:OE2	9:MJ:318:ARG:NH2	2.37	0.57
9:ML:213:ARG:O	9:ML:216:LYS:NZ	2.36	0.57
9:NB:209:ASP:OD2	9:NB:213:ARG:NH2	2.37	0.57
8:NC:188:ILE:HD13	8:NC:395:LEU:HD13	1.86	0.57
8:NI:102:ASN:HB3	8:NI:105:ARG:HB3	1.86	0.57
9:PH:54:ALA:HA	9:QH:283:ALA:HB2	1.85	0.57
8:QC:254:GLU:OE1	8:QC:352:LYS:NZ	2.31	0.57
8:QC:362:VAL:HG21	8:QC:370:LYS:HD2	1.86	0.57
9:QD:31:ASP:OD1	9:QD:33:THR:HG22	2.04	0.57
9:QD:138:SER:HA	9:QD:169:VAL:HB	1.85	0.57
9:QD:304:ASP:HB3	9:QD:307:HIS:CE1	2.40	0.57
8:QG:258:ASN:HD21	8:QG:352:LYS:HB2	1.70	0.57
8:SG:269:LEU:HD11	8:SG:384:ILE:HD13	1.86	0.57
8:VM:64:ARG:NH1	8:VM:129:CYS:SG	2.77	0.57
9:WJ:15:GLN:O	9:WJ:226:ASN:ND2	2.37	0.57
56:XI:16:SER:O	56:XI:36:ARG:NH1	2.37	0.57
59:b:520:LEU:HD11	59:b:537:GLU:HG2	1.86	0.57
46:o:410:ASP:HA	46:o:413:ILE:HG22	1.86	0.57
2:0a:111:LEU:HD21	2:0a:141:LEU:HD13	1.87	0.57
7:A5:55:GLY:HA2	9:QF:118:ASP:OD1	2.03	0.57
8:AC:53:PHE:O	8:AC:64:ARG:NH1	2.38	0.57
9:AF:281:TYR:O	9:KH:86:ARG:NH1	2.38	0.57
8:AG:195:LEU:HD21	8:AG:264:ARG:HE	1.70	0.57
13:Ac:553:THR:HG21	29:EA:91:CYS:HB2	1.87	0.57
8:BA:239:THR:OG1	8:BA:243:ARG:NH1	2.37	0.57
8:CC:183:GLU:HG3	8:CC:184:PRO:HD3	1.86	0.57
2:Ck:103:THR:OG1	2:Ck:109:ASN:ND2	2.21	0.57
29:D5:436:ARG:NH1	29:D5:439:GLU:OE1	2.36	0.57
8:DM:310:GLY:HA3	8:DM:383:ALA:HB2	1.87	0.57
8:EE:347:CYS:HA	9:EF:388:MET:HE1	1.86	0.57
9:EJ:262:ARG:NH1	9:EJ:421:GLU:OE2	2.35	0.57
44:EV:371:ASP:OD1	44:EV:372:ALA:N	2.37	0.57
9:GD:282:ARG:NH1	9:GD:283:ALA:O	2.37	0.57
8:GK:60:LYS:HD3	8:HK:283:HIS:HD2	1.68	0.57
8:HE:139:HIS:NE2	8:HE:168:GLU:OE1	2.34	0.57
8:HK:382:THR:HA	8:HK:432:TYR:HE1	1.70	0.57
8:IO:5:ILE:HD13	8:IO:64:ARG:HB3	1.86	0.57
9:JD:213:ARG:HH22	9:JD:297:LYS:HB2	1.70	0.57
8:JE:275:VAL:HG23	8:JE:368:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KD:96:GLY:O	9:KD:103:LYS:NZ	2.36	0.57
8:KI:64:ARG:NH1	8:KI:129:CYS:SG	2.78	0.57
8:KI:317:MET:HE3	8:KI:375:VAL:HG21	1.85	0.57
50:L2:59:VAL:HG13	50:L2:60:PHE:HD1	1.69	0.57
8:LC:166:LYS:N	8:LC:199:ASP:OD2	2.34	0.57
8:LC:284:GLU:OE2	8:MC:88:HIS:NE2	2.36	0.57
8:MI:401:LYS:HA	54:S:125:ARG:HH11	1.69	0.57
8:OA:72:PRO:HB3	8:OA:94:THR:HG23	1.87	0.57
9:OJ:342:VAL:HG21	9:OJ:344:TRP:CZ2	2.39	0.57
8:OK:142:GLY:HA3	8:OK:183:GLU:OE2	2.04	0.57
8:QG:183:GLU:HG2	8:QG:184:PRO:HD3	1.86	0.57
9:QH:318:ARG:HA	9:QH:354:CYS:HB3	1.86	0.57
9:QL:193:VAL:HG11	9:QL:418:LEU:HD21	1.87	0.57
9:RB:289:LEU:HD13	9:RB:365:ALA:HB2	1.86	0.57
9:RD:141:GLY:O	9:RD:184:ASN:ND2	2.37	0.57
9:RH:210:ILE:O	9:RH:214:THR:OG1	2.22	0.57
9:RJ:245:GLN:O	8:RK:11:GLN:NE2	2.37	0.57
9:RJ:372:THR:HA	9:RJ:422:TYR:HE2	1.68	0.57
8:RK:238:ILE:HD12	8:RK:255:PHE:HE2	1.69	0.57
8:SA:76:ASP:OD1	8:SA:79:ARG:NH2	2.38	0.57
8:SC:402:ARG:HB3	8:SC:405:VAL:HG11	1.86	0.57
9:SF:294:PHE:HE1	9:SF:313:VAL:HG11	1.67	0.57
9:SL:345:ILE:O	9:SL:348:ASN:ND2	2.38	0.57
8:SM:56:THR:HG21	8:SM:60:LYS:HB3	1.87	0.57
8:SM:93:ILE:HD12	8:SM:117:LEU:HD21	1.86	0.57
9:TD:56:GLY:O	59:c:281:LYS:NZ	2.35	0.57
9:TJ:252:LYS:NZ	67:TK:501:GTP:O2G	2.32	0.57
9:TL:193:VAL:HG12	9:TL:265:PHE:HZ	1.69	0.57
8:UM:155:GLU:HA	8:UM:197:HIS:CE1	2.40	0.57
9:VF:86:ARG:NH1	9:WF:281:TYR:O	2.38	0.57
60:e:527:ARG:NE	60:e:549:GLY:O	2.36	0.57
7:A8:144:LEU:HD13	7:A8:145:PRO:HD2	1.86	0.57
7:A9:75:LYS:HD2	7:A9:83:LEU:HD23	1.84	0.57
7:Au:201:THR:HA	9:GN:337:ASN:HD21	1.69	0.57
7:Av:198:PRO:HG2	9:OH:287:PRO:HB3	1.85	0.57
21:Bk:300:GLU:CD	21:Bk:303:ARG:HH22	2.11	0.57
27:Br:69:MET:HE1	62:i:25:ILE:HG22	1.86	0.57
18:Bz:40:ASP:OD1	18:Bz:40:ASP:N	2.32	0.57
8:CG:140:SER:OG	67:CG:501:GTP:O2A	2.22	0.57
8:CI:11:GLN:HG2	8:CI:74:VAL:HG21	1.86	0.57
2:CT:34:ARG:HB3	2:CT:40:LYS:HE3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cg:96:ASN:ND2	2:Cg:99:GLU:OE2	2.37	0.57
29:Cz:239:ILE:HD13	29:Cz:320:LEU:HD23	1.86	0.57
9:DN:130:LEU:HB2	9:DN:162:ARG:HH12	1.70	0.57
9:ED:204:ASN:OD1	69:ED:501:GDP:N2	2.37	0.57
9:EF:299:MET:SD	9:EF:299:MET:N	2.78	0.57
9:FL:282:ARG:NH1	9:FL:292:GLN:OE1	2.37	0.57
9:GH:34:GLY:O	9:GH:59:TYR:N	2.31	0.57
9:GN:107:THR:OG1	9:GN:401:GLU:OE1	2.22	0.57
8:HI:259:LEU:HD21	8:HI:378:LEU:HB3	1.87	0.57
8:HM:356:ASN:OD1	8:HM:357:TYR:N	2.37	0.57
9:IB:253:LEU:HB3	9:IB:257:MET:HE1	1.86	0.57
8:IG:75:VAL:HG12	8:IG:79:ARG:NH2	2.18	0.57
9:IJ:66:VAL:HG23	9:IJ:91:VAL:HB	1.86	0.57
8:IM:195:LEU:HD21	8:IM:428:LEU:HD13	1.87	0.57
9:IN:256:ASN:ND2	8:IO:101:ASN:OD1	2.38	0.57
9:JB:272:PRO:HG3	9:JB:364:SER:HA	1.86	0.57
9:LJ:314:ALA:HB3	9:LJ:368:ILE:HB	1.87	0.57
9:NF:189:VAL:HA	9:NF:192:LEU:HB2	1.85	0.57
9:NL:215:LEU:HB3	9:NL:217:LEU:HD23	1.87	0.57
9:PL:345:ILE:HD11	8:PM:181:VAL:HG21	1.87	0.57
8:QE:101:ASN:HB3	8:QE:182:VAL:HG21	1.86	0.57
9:QL:11:GLN:HE21	9:QL:72:THR:HG21	1.70	0.57
9:QL:311:LEU:HD23	9:QL:312:THR:HG23	1.86	0.57
8:RA:98:ASP:O	8:RA:105:ARG:NH1	2.37	0.57
9:RJ:299:MET:SD	9:RJ:299:MET:N	2.76	0.57
9:SD:47:ILE:HG12	9:SD:51:TYR:HD2	1.69	0.57
9:SH:16:ILE:HG21	9:SH:136:THR:HG21	1.87	0.57
9:SJ:68:LEU:HD23	9:SJ:97:ALA:H	1.69	0.57
54:U:270:ALA:O	54:U:272:ARG:N	2.33	0.57
8:VC:27:GLU:OE1	8:VC:243:ARG:NH1	2.37	0.57
9:VJ:209:ASP:HB2	9:VJ:213:ARG:HH12	1.70	0.57
9:VN:11:GLN:NE2	69:VN:501:GDP:O1A	2.36	0.57
9:WB:68:LEU:HD11	9:WB:108:GLU:HG2	1.86	0.57
8:WC:320:ARG:HB3	8:WC:374:ALA:HB3	1.85	0.57
6:A0:49:ARG:NH1	6:A0:51:SER:HA	2.19	0.57
13:Ac:331:ASN:HB3	48:J:56:PHE:HE2	1.69	0.57
19:BQ:211:ARG:HH21	54:U:267:GLU:HB2	1.69	0.57
14:Bc:80:ASP:HB2	28:C2:104:LEU:HD21	1.87	0.57
9:CB:390:ARG:HH21	9:CB:391:ARG:HH11	1.52	0.57
9:CD:347:ASN:ND2	8:CE:180:ALA:O	2.37	0.57
9:CF:170:VAL:HG23	9:CF:203:ASP:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CF:204:ASN:OD1	69:CF:501:GDP:N2	2.37	0.57
2:Ce:130:GLU:HA	2:Ce:134:HIS:HB2	1.87	0.57
29:D1:169:GLU:OE2	29:D1:321:ARG:NH2	2.36	0.57
29:D1:388:LYS:NZ	29:D2:131:ASP:OD1	2.37	0.57
29:D3:405:ARG:HB2	29:D3:410:LEU:HD12	1.87	0.57
8:DE:54:SER:OG	8:DE:55:GLU:N	2.38	0.57
41:Dn:190:ASP:OD1	8:OE:339:ARG:NH1	2.37	0.57
9:EB:327:ASP:HB2	8:EC:177:VAL:HG11	1.86	0.57
44:ES:238:VAL:HG22	44:EV:351:LYS:HB3	1.86	0.57
44:EX:152:VAL:HG21	44:EX:179:GLU:HG2	1.87	0.57
42:F:302:MET:HG2	42:F:305:TRP:HD1	1.70	0.57
8:FC:4:CYS:HB2	8:FC:52:PHE:HE1	1.69	0.57
8:GG:70:LEU:HA	8:GG:95:GLY:HA3	1.85	0.57
8:GG:79:ARG:NH2	8:GG:92:LEU:O	2.37	0.57
9:GL:194:GLU:N	9:GL:194:GLU:OE1	2.37	0.57
9:GL:314:ALA:HB3	9:GL:368:ILE:HB	1.85	0.57
9:GN:290:THR:HG21	9:GN:329:GLN:HB3	1.86	0.57
9:HF:324:LYS:HD3	8:HG:222:PRO:HD2	1.87	0.57
8:JM:422:ARG:HB3	58:p:39:ILE:HD11	1.86	0.57
9:JN:113:VAL:HG11	9:JN:150:LEU:HD22	1.85	0.57
8:MK:255:PHE:HZ	8:MK:318:LEU:HD11	1.68	0.57
8:NE:335:ILE:HA	8:NE:338:LYS:NZ	2.19	0.57
9:NF:339:SER:HB3	58:Z:63:LYS:HE3	1.87	0.57
8:NG:217:LEU:HG	8:NG:219:ILE:HG22	1.86	0.57
9:NH:213:ARG:HH21	9:NH:214:THR:HG22	1.70	0.57
9:OF:322:SER:OG	9:OF:325:GLU:OE1	2.22	0.57
9:OH:321:MET:SD	9:OH:321:MET:N	2.77	0.57
9:PD:299:MET:HE1	9:PD:305:PRO:HG3	1.86	0.57
9:PH:170:VAL:HG21	9:PH:377:LEU:HD11	1.84	0.57
8:QC:239:THR:HG23	8:QC:243:ARG:HH12	1.69	0.57
9:QJ:210:ILE:HD11	9:QJ:298:ASN:HA	1.87	0.57
9:QL:386:THR:O	9:QL:390:ARG:NE	2.32	0.57
9:RD:211:CYS:HA	9:RD:215:LEU:HB2	1.85	0.57
9:RF:15:GLN:HG3	9:RF:226:ASN:HD21	1.68	0.57
9:RJ:136:THR:HG22	9:RJ:167:PHE:HB2	1.85	0.57
8:RK:54:SER:HA	8:RK:64:ARG:HH21	1.70	0.57
8:RM:425:LEU:HA	8:RM:428:LEU:HD12	1.87	0.57
9:SB:68:LEU:HD23	9:SB:97:ALA:HB2	1.85	0.57
8:SC:305:CYS:SG	8:SC:306:ASP:N	2.77	0.57
9:TB:396:HIS:CE1	9:TB:397:TRP:CD1	2.92	0.57
9:UD:299:MET:HE3	9:UD:300:MET:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WD:267:MET:HG3	9:WD:299:MET:HE1	1.85	0.57
8:WG:9:VAL:HG11	8:WG:150:ALA:HB2	1.85	0.57
8:WK:217:LEU:HB3	8:WK:219:ILE:HG22	1.86	0.57
60:g:379:THR:N	60:g:397:ASP:OD2	2.36	0.57
2:0i:45:SER:HA	2:0i:111:LEU:HD12	1.86	0.57
3:1:69:HIS:HB3	3:1:72:ILE:HG12	1.86	0.57
4:3:1424:ILE:HD12	4:3:1464:ILE:HG23	1.85	0.57
8:AA:104:ALA:HB2	8:AA:413:MET:HE2	1.86	0.57
8:AC:308:ARG:NH2	65:t:80:TYR:O	2.38	0.57
9:AD:419:VAL:HG12	9:AD:423:GLN:HE21	1.69	0.57
9:AJ:253:LEU:HA	9:AJ:257:MET:HE1	1.87	0.57
8:BA:137:ILE:HG21	8:BA:154:MET:HE1	1.85	0.57
8:BE:103:TYR:H	8:BE:408:TYR:HE2	1.53	0.57
8:BI:236:SER:O	8:BI:243:ARG:NH2	2.37	0.57
9:BJ:73:MET:HE1	9:BJ:92:PHE:HB3	1.87	0.57
8:BK:254:GLU:N	8:BK:254:GLU:OE1	2.37	0.57
19:BR:362:HIS:HE1	8:MM:412:GLY:C	2.13	0.57
22:BX:24:SER:HB3	22:BX:27:VAL:HG12	1.85	0.57
18:Bz:68:LYS:N	9:LD:410:GLU:OE1	2.37	0.57
33:Cu:296:ASP:OD2	33:Cw:43:ARG:NH2	2.35	0.57
8:DC:241:SER:HB3	8:DC:250:VAL:H	1.69	0.57
9:DN:73:MET:HE1	9:DN:90:PHE:HB3	1.87	0.57
39:Di:50:MET:HE3	39:Di:52:TRP:HE1	1.70	0.57
9:EF:169:VAL:HA	9:EF:202:ILE:HB	1.86	0.57
44:EZ:231:TYR:HA	44:EZ:236:THR:HG21	1.87	0.57
42:F:729:ARG:O	9:IN:320:ARG:NH2	2.38	0.57
8:FK:273:ALA:HB2	8:FK:295:CYS:HB3	1.85	0.57
8:FM:98:ASP:O	8:FM:105:ARG:NH2	2.37	0.57
9:GB:100:ASN:HB2	9:GB:398:TYR:HE1	1.67	0.57
9:GF:324:LYS:NZ	8:GG:222:PRO:O	2.37	0.57
9:JF:251:ARG:NH1	8:JG:97:GLU:OE2	2.37	0.57
9:JF:271:ALA:O	9:JF:292:GLN:NE2	2.37	0.57
9:JL:226:ASN:OD1	69:JL:501:GDP:N1	2.34	0.57
8:KM:70:LEU:HD13	8:KM:110:ILE:HG22	1.85	0.57
8:KO:278:ALA:HA	8:KO:369:ALA:HB2	1.87	0.57
50:L2:41:HIS:O	50:L2:41:HIS:ND1	2.33	0.57
8:LC:51:THR:HG21	8:LC:243:ARG:HG2	1.86	0.57
9:LN:253:LEU:O	9:LN:257:MET:HB2	2.04	0.57
9:ML:131:GLN:NE2	9:ML:249:ASP:OD1	2.38	0.57
8:OG:195:LEU:HD21	8:OG:428:LEU:HD13	1.85	0.57
8:OK:317:MET:SD	8:OK:377:MET:HE3	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RC:171:ILE:HA	8:RC:204:VAL:HG23	1.85	0.57
9:RJ:309:ARG:N	9:RJ:372:THR:OG1	2.37	0.57
9:RL:33:THR:O	9:RL:58:LYS:NZ	2.37	0.57
9:SB:87:PRO:HD3	9:TB:281:TYR:HD2	1.69	0.57
8:SE:164:LYS:O	8:SE:166:LYS:NZ	2.38	0.57
9:SL:18:ALA:HB2	9:SL:76:VAL:HG23	1.86	0.57
8:TE:382:THR:HA	8:TE:432:TYR:HE1	1.68	0.57
9:TH:135:LEU:HD21	9:TH:137:HIS:HE1	1.69	0.57
8:TM:16:ILE:HA	8:TM:228:ASN:HB3	1.85	0.57
9:UB:170:VAL:HG21	9:UB:377:LEU:HD11	1.85	0.57
8:UE:311:LYS:HZ2	8:UE:343:PHE:C	2.11	0.57
9:UJ:121:ARG:NH1	9:UJ:158:GLU:OE2	2.37	0.57
9:VF:1:MET:HE3	9:VF:2:ARG:H	1.66	0.57
9:VL:156:ARG:NH2	9:VL:197:ASP:OD2	2.37	0.57
8:WK:42:ILE:HG22	8:WK:44:GLY:H	1.69	0.57
8:WK:326:LYS:NZ	8:WK:327:ASP:OD1	2.36	0.57
56:XI:71:ILE:HB	56:XI:151:THR:HB	1.87	0.57
60:f:20:GLU:OE2	60:f:616:ARG:NH1	2.37	0.57
60:g:17:LEU:HD13	60:g:620:PRO:HD3	1.86	0.57
62:j:66:TYR:OH	62:j:145:GLN:OE1	2.21	0.57
63:k:45:ASN:O	63:k:100:ARG:NH1	2.38	0.57
3:1:177:TYR:HA	3:1:200:VAL:HG21	1.87	0.57
13:Ab:466:PHE:O	9:EJ:83:GLN:NE2	2.37	0.57
15:Ar:162:LYS:HE2	38:Dh:76:MET:HB2	1.87	0.57
16:At:195:LYS:O	8:EM:96:LYS:NZ	2.35	0.57
16:Ax:140:PRO:HD2	8:FC:338:LYS:HE2	1.86	0.57
14:B7:231:TRP:NE1	9:FJ:284:LEU:O	2.38	0.57
8:BA:274:PRO:HG3	8:BA:374:ALA:HA	1.85	0.57
8:BA:324:VAL:HG12	8:BA:326:LYS:H	1.69	0.57
19:BQ:471:GLN:NE2	8:MC:196:GLU:O	2.37	0.57
29:C1:349:ARG:NH2	29:C1:352:GLU:OE2	2.38	0.57
28:C8:197:GLU:HB3	28:C8:476:MET:HE1	1.86	0.57
28:C8:211:VAL:HG23	28:C8:213:ASP:HB2	1.87	0.57
9:CL:190:HIS:NE2	9:CL:410:GLU:OE2	2.38	0.57
29:DT:214:VAL:HA	29:DT:217:ASN:HB2	1.85	0.57
9:ED:152:ILE:HG21	9:ED:196:THR:HG22	1.85	0.57
29:EP:213:ASN:HA	29:EP:216:LYS:HD2	1.85	0.57
44:EV:159:ARG:NH1	44:EV:426:ASP:OD1	2.38	0.57
9:HB:49:VAL:HG11	9:HB:241:ARG:HG2	1.87	0.57
8:IC:286:LEU:O	8:IC:373:ARG:NH1	2.33	0.57
8:IE:79:ARG:NH2	8:IE:94:THR:OG1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IJ:63:ALA:O	9:IJ:89:ASN:ND2	2.37	0.57
9:IJ:354:CYS:SG	9:IJ:355:ASP:N	2.73	0.57
48:J:45:ASN:OD1	48:J:48:ARG:NH2	2.37	0.57
8:JC:250:VAL:HG13	8:JC:254:GLU:HB2	1.87	0.57
9:JD:385:PHE:HZ	9:JD:408:PHE:HB3	1.69	0.57
9:KB:67:ASP:HB3	9:KB:73:MET:HE2	1.85	0.57
8:LM:367:ASP:OD1	8:LM:367:ASP:N	2.37	0.57
9:LN:16:ILE:HD13	9:LN:229:VAL:HG11	1.86	0.57
9:MD:331:LEU:HD12	8:ME:177:VAL:HG12	1.86	0.57
9:MN:178:THR:HB	9:MN:181:GLU:HB3	1.86	0.57
9:NF:122:LYS:NZ	9:OF:291:GLN:OE1	2.31	0.57
8:PC:90:GLU:HG3	8:PC:121:ARG:HD3	1.86	0.57
8:PK:392:ASP:HA	8:PK:422:ARG:HH12	1.70	0.57
9:QD:375:GLN:NE2	9:QD:419:VAL:O	2.37	0.57
9:QJ:61:PRO:HD3	9:QJ:84:ILE:HG22	1.86	0.57
9:RB:266:PHE:C	9:RB:267:MET:HG2	2.29	0.57
9:RF:263:LEU:HD11	9:RF:421:GLU:HG2	1.86	0.57
8:RG:71:GLU:OE2	8:RG:73:THR:OG1	2.18	0.57
9:RH:83:GLN:O	9:SH:281:TYR:OH	2.23	0.57
8:RI:21:TRP:HE1	8:RI:65:ALA:HB3	1.70	0.57
9:RJ:213:ARG:HD3	9:RJ:297:LYS:HD3	1.85	0.57
9:RL:345:ILE:HD11	8:RM:181:VAL:HB	1.86	0.57
8:RM:103:TYR:H	8:RM:408:TYR:HE1	1.52	0.57
8:SI:79:ARG:NH2	8:SI:94:THR:OG1	2.37	0.57
9:UH:3:GLU:HG3	9:UH:127:CYS:HB3	1.86	0.57
8:UM:158:SER:HB3	8:UM:197:HIS:CE1	2.39	0.57
9:VN:39:ASP:OD1	9:VN:39:ASP:N	2.37	0.57
9:WH:202:ILE:HG21	9:WH:229:VAL:HG22	1.87	0.57
8:WK:335:ILE:HA	8:WK:338:LYS:HE3	1.86	0.57
56:XH:8:SER:OG	56:XH:9:GLY:N	2.35	0.57
59:a:188:GLU:HB3	59:b:512:ILE:HD11	1.87	0.57
59:b:315:ARG:HH21	59:b:316:ILE:HD13	1.69	0.57
2:0a:21:GLN:HE21	9:QL:40:SER:HB3	1.70	0.57
9:AB:216:LYS:NZ	13:Ad:19:ARG:O	2.34	0.57
9:AL:245:GLN:HE21	20:BT:237:VAL:HB	1.70	0.57
10:AS:45:ASP:OD1	10:AS:45:ASP:N	2.37	0.57
16:Ax:145:TYR:HD2	16:Ax:147:PRO:HD3	1.70	0.57
9:BD:2:ARG:HH21	9:BD:240:LEU:HA	1.69	0.57
8:BE:85:GLN:N	8:BE:85:GLN:OE1	2.38	0.57
14:BY:312:GLU:OE2	14:BY:315:ARG:NH1	2.38	0.57
28:C5:332:THR:O	28:C5:336:MET:HG3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:135:LEU:HD11	9:CD:137:HIS:HB3	1.85	0.57
9:CF:138:SER:HA	9:CF:169:VAL:HG22	1.87	0.57
32:Cp:331:ASP:OD1	32:Cp:331:ASP:N	2.36	0.57
29:D5:364:LEU:HD13	29:D5:454:LEU:HB3	1.86	0.57
9:DF:257:MET:HE2	9:DF:368:ILE:HG22	1.87	0.57
8:DM:246:GLY:HA3	8:DM:356:ASN:HA	1.87	0.57
43:E1:99:GLY:O	43:E1:103:ARG:NH1	2.38	0.57
9:EN:55:THR:OG1	9:FN:283:ALA:O	2.17	0.57
42:F:721:PRO:O	9:IN:359:ARG:NH2	2.37	0.57
9:FL:91:VAL:HG11	9:FL:116:VAL:HG13	1.86	0.57
9:GB:68:LEU:HD21	9:GB:147:MET:HE2	1.87	0.57
9:GN:192:LEU:HD21	9:GN:199:THR:HG21	1.86	0.57
8:KE:175:PRO:HB3	8:KE:390:ARG:NE	2.19	0.57
50:L1:119:ARG:NH2	8:VC:244:PHE:O	2.38	0.57
8:LC:367:ASP:N	8:LC:367:ASP:OD1	2.34	0.57
9:LH:210:ILE:HD11	9:LH:298:ASN:HA	1.85	0.57
9:LL:309:ARG:NH2	9:LL:343:GLU:OE1	2.38	0.57
8:LM:90:GLU:OE2	8:LM:90:GLU:N	2.38	0.57
9:MB:317:PHE:CE1	9:MB:330:MET:HE1	2.40	0.57
8:MG:346:TRP:HB3	9:MH:391:ARG:HD3	1.87	0.57
9:ML:107:THR:OG1	9:ML:108:GLU:OE1	2.20	0.57
9:N0:128:ASP:OD2	9:N0:129:CYS:N	2.38	0.57
9:NF:171:PRO:O	9:NF:380:ARG:NH2	2.33	0.57
9:NJ:10:GLY:HA2	9:NJ:143:THR:HG23	1.87	0.57
9:NJ:364:SER:OG	9:NJ:365:ALA:N	2.38	0.57
9:OD:354:CYS:SG	9:OD:355:ASP:N	2.78	0.57
9:PB:347:ASN:ND2	8:PC:180:ALA:O	2.37	0.57
9:PB:375:GLN:OE1	9:PB:379:LYS:NZ	2.38	0.57
8:PK:240:ALA:HA	8:PK:243:ARG:HE	1.69	0.57
8:QA:377:MET:SD	8:QA:377:MET:N	2.78	0.57
9:QF:194:GLU:OE2	9:QF:414:ASN:ND2	2.38	0.57
9:QH:245:GLN:O	8:QI:11:GLN:NE2	2.37	0.57
8:QM:70:LEU:HD12	8:QM:99:ALA:HB2	1.85	0.57
8:RA:408:TYR:HD2	8:RA:413:MET:HE1	1.70	0.57
8:RC:188:ILE:HD11	8:RC:391:LEU:HB3	1.87	0.57
9:SD:157:GLU:HG2	9:SD:158:GLU:HG3	1.86	0.57
9:SF:90:PHE:HB3	9:SF:92:PHE:CE2	2.39	0.57
9:SH:37:HIS:ND1	9:SH:37:HIS:O	2.36	0.57
9:SJ:246:LEU:HD21	8:SK:179:THR:HG21	1.87	0.57
8:SK:119:LEU:HD11	8:SK:156:ARG:HB3	1.85	0.57
9:SL:109:GLY:O	9:SL:113:VAL:HB	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TK:381:THR:HG22	8:TK:383:ALA:H	1.69	0.57
9:UB:324:LYS:HZ1	8:UC:221:ARG:HA	1.69	0.57
9:UD:22:GLU:HG3	9:UD:81:PHE:CE2	2.39	0.57
9:UJ:205:GLU:OE2	9:UJ:205:GLU:N	2.33	0.57
8:VI:50:ASN:O	8:VI:64:ARG:NH1	2.38	0.57
9:WL:116:VAL:HG11	9:WL:151:LEU:HD11	1.87	0.57
9:AD:252:LYS:NZ	8:AE:101:ASN:OD1	2.35	0.57
13:Ad:457:ARG:NH2	9:FB:219:THR:O	2.37	0.57
16:At:242:MET:HG3	9:FJ:336:LYS:HE2	1.87	0.57
8:BC:5:ILE:HG12	8:BC:132:LEU:HD11	1.86	0.57
9:BF:385:PHE:HZ	9:BF:408:PHE:HB3	1.69	0.57
29:C1:263:ALA:O	29:C1:267:ASP:HB2	2.05	0.57
9:CF:308:GLY:HA2	9:CF:426:GLN:HE22	1.69	0.57
14:CN:29:TYR:HE1	9:EB:285:THR:HG22	1.69	0.57
8:DC:54:SER:OG	8:DC:55:GLU:N	2.37	0.57
29:DV:40:TYR:HE1	29:DV:42:LEU:HD13	1.69	0.57
9:EB:2:ARG:NH1	8:EC:71:GLU:OE1	2.37	0.57
9:EB:272:PRO:HG3	9:EB:364:SER:HA	1.85	0.57
9:ED:170:VAL:HG11	9:ED:377:LEU:HD21	1.87	0.57
9:ED:375:GLN:NE2	9:ED:423:GLN:OE1	2.37	0.57
8:EE:257:THR:HG21	9:EF:98:GLY:O	2.05	0.57
8:EG:381:THR:HG22	8:EG:383:ALA:H	1.70	0.57
8:FC:88:HIS:O	8:FC:91:GLN:NE2	2.37	0.57
9:FJ:284:LEU:H	9:FJ:288:GLU:CD	2.12	0.57
9:GB:334:GLN:NE2	9:GB:348:ASN:OD1	2.38	0.57
8:GG:71:GLU:HG3	8:GG:98:ASP:HB2	1.85	0.57
8:HE:326:LYS:NZ	9:HF:220:PRO:O	2.38	0.57
8:IG:327:ASP:N	8:IG:327:ASP:OD2	2.34	0.57
9:IJ:248:ALA:HA	9:IJ:252:LYS:HD2	1.87	0.57
8:IO:162:GLY:O	8:IO:166:LYS:NZ	2.37	0.57
9:JB:145:SER:HG	9:JB:188:SER:HG	1.52	0.57
9:JH:257:MET:O	9:JH:312:THR:OG1	2.17	0.57
9:MB:149:THR:HB	9:MB:191:GLN:HG2	1.85	0.57
8:MK:238:ILE:HD11	8:MK:378:LEU:HD21	1.87	0.57
9:MN:330:MET:HB3	9:MN:349:VAL:HG21	1.87	0.57
8:NE:88:HIS:CE1	8:NE:90:GLU:OE2	2.58	0.57
9:NF:51:TYR:HA	9:NF:61:PRO:HA	1.86	0.57
9:NF:137:HIS:NE2	9:NF:166:THR:OG1	2.38	0.57
8:NK:209:ILE:HA	8:NK:212:ILE:HG22	1.87	0.57
8:OC:328:VAL:HG21	8:OC:355:ILE:HD11	1.86	0.57
8:OI:113:GLU:N	8:OI:113:GLU:OE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RB:210:ILE:O	9:RB:214:THR:OG1	2.21	0.57
8:RC:53:PHE:HB3	8:RC:61:HIS:HB3	1.86	0.57
9:RH:54:ALA:HA	9:SH:283:ALA:HB2	1.85	0.57
8:SI:107:HIS:HD2	8:SI:152:LEU:HB3	1.70	0.57
8:TE:348:PRO:HD2	9:TF:388:MET:HE2	1.86	0.57
9:TH:3:GLU:H	9:TH:131:GLN:H	1.51	0.57
9:TH:245:GLN:O	8:TI:11:GLN:NE2	2.37	0.57
9:UB:215:LEU:HB3	9:UB:217:LEU:HD23	1.86	0.57
9:UD:248:ALA:HA	9:UD:252:LYS:HG3	1.86	0.57
9:UF:270:PHE:O	9:UF:298:ASN:ND2	2.37	0.57
9:UN:97:ALA:HB3	9:UN:143:THR:HG22	1.87	0.57
56:XK:89:PHE:HE1	56:XK:123:MET:HE3	1.70	0.57
56:XL:86:TYR:O	56:XL:159:ASN:ND2	2.38	0.57
57:YK:113:PHE:HA	57:YK:131:ILE:HD11	1.87	0.57
60:e:358:ASP:OD2	60:e:360:ARG:NH1	2.38	0.57
60:f:392:ILE:HD11	60:f:406:PRO:HA	1.87	0.57
58:q:68:GLN:HE21	66:w:342:ILE:HD13	1.70	0.57
3:x:141:VAL:HG13	3:x:142:LEU:HG	1.86	0.57
7:A1:75:LYS:HE2	7:A1:83:LEU:H	1.70	0.56
7:A7:90:LEU:HD11	9:RH:118:ASP:HB3	1.86	0.56
9:AH:48:ASN:O	9:AH:62:ARG:NH2	2.36	0.56
11:AU:406:GLN:HB3	34:D:82:ARG:HH22	1.70	0.56
13:Ad:546:ARG:NH1	29:EO:97:ASP:OD2	2.37	0.56
9:BJ:28:HIS:HA	9:BJ:43:GLN:HB3	1.86	0.56
8:BK:254:GLU:O	8:BK:258:ASN:ND2	2.38	0.56
19:BQ:211:ARG:NH2	54:U:267:GLU:HB2	2.19	0.56
19:BR:414:ARG:NH2	39:Dl:98:LEU:O	2.38	0.56
29:C1:271:LEU:HD21	29:C1:293:ILE:HD12	1.86	0.56
8:CA:263:PRO:HD3	9:CB:396:HIS:CD2	2.40	0.56
8:CM:79:ARG:HD3	48:L:108:TRP:HD1	1.70	0.56
2:CX:31:GLU:OE1	2:CX:40:LYS:NZ	2.32	0.56
2:Ci:5:VAL:HB	2:Ci:84:PHE:HE1	1.69	0.56
9:DD:20:PHE:CG	9:DD:233:MET:HE2	2.40	0.56
9:DD:31:ASP:OD2	9:DD:31:ASP:N	2.38	0.56
29:DQ:250:GLN:HE21	29:DQ:254:GLU:CD	2.13	0.56
38:Df:18:GLN:HG2	38:Df:22:MET:HE2	1.87	0.56
8:EE:6:SER:HA	8:EE:136:LEU:HB3	1.87	0.56
8:EK:208:ALA:HB2	8:EK:304:LYS:HB2	1.87	0.56
9:EN:156:ARG:NH2	9:EN:197:ASP:OD2	2.37	0.56
9:EN:294:PHE:HE1	9:EN:313:VAL:HG21	1.69	0.56
29:EP:380:LEU:HB3	29:ER:127:MET:HE1	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EP:477:LYS:HZ3	44:EW:115:SER:CB	2.18	0.56
9:FB:247:ASN:ND2	8:FC:11:GLN:OE1	2.38	0.56
8:GC:326:LYS:HZ2	9:GD:220:PRO:HD2	1.70	0.56
8:GK:278:ALA:HA	8:GK:369:ALA:HB2	1.86	0.56
8:GM:3:GLU:HA	8:GM:51:THR:HA	1.87	0.56
9:HN:273:LEU:O	9:HN:292:GLN:NE2	2.30	0.56
9:IB:121:ARG:NH2	9:IB:158:GLU:OE1	2.35	0.56
8:JK:11:GLN:HG3	8:JK:74:VAL:HG21	1.87	0.56
9:KD:230:SER:HA	9:KD:233:MET:HB2	1.86	0.56
9:KH:95:SER:OG	9:KH:108:GLU:OE2	2.18	0.56
8:LC:120:ASP:OD1	8:LC:123:ARG:NH2	2.34	0.56
8:LG:255:PHE:O	8:LG:259:LEU:HB2	2.05	0.56
9:MB:401:GLU:N	9:MB:401:GLU:OE2	2.38	0.56
9:MF:314:ALA:HB3	9:MF:368:ILE:HB	1.87	0.56
8:MG:2:ARG:HB3	8:MG:242:LEU:HD22	1.87	0.56
8:MM:251:ASP:OD1	8:MM:252:LEU:N	2.35	0.56
9:OD:32:PRO:HD3	9:OD:81:PHE:CZ	2.40	0.56
8:PE:274:PRO:HG3	8:PE:374:ALA:HA	1.86	0.56
8:PI:88:HIS:HB3	8:PI:91:GLN:HB2	1.86	0.56
9:QF:354:CYS:SG	9:QF:355:ASP:N	2.75	0.56
8:RA:234:ILE:HD11	8:RA:272:TYR:HB2	1.87	0.56
8:SC:170:ALA:HB3	8:SC:202:PHE:O	2.04	0.56
9:SF:14:ASN:HB3	9:SF:76:VAL:HG11	1.87	0.56
8:SM:284:GLU:HG2	8:SM:286:LEU:HD22	1.85	0.56
8:TC:382:THR:HA	8:TC:432:TYR:HE1	1.70	0.56
9:UH:204:ASN:ND2	69:UH:501:GDP:O2'	2.38	0.56
8:UI:9:VAL:HG12	8:UI:146:GLY:HA2	1.87	0.56
9:VF:49:VAL:HG11	9:VF:241:ARG:HB3	1.85	0.56
67:VL:502:GTP:N2	8:VM:206:ASN:OD1	2.38	0.56
9:VN:8:GLN:OE1	9:VN:136:THR:OG1	2.23	0.56
8:WG:206:ASN:OD1	67:WG:501:GTP:N2	2.38	0.56
9:WJ:170:VAL:HG11	9:WJ:377:LEU:HD11	1.87	0.56
9:WJ:193:VAL:HG21	9:WJ:418:LEU:HD21	1.87	0.56
9:WL:63:ALA:O	9:WL:89:ASN:ND2	2.38	0.56
56:XL:146:THR:OG1	56:XL:147:ASN:N	2.37	0.56
59:b:297:ARG:HH21	59:b:301:GLN:HG2	1.70	0.56
7:A7:192:VAL:HA	8:RC:96:LYS:HE3	1.87	0.56
7:A7:201:THR:OG1	7:A7:202:MET:N	2.38	0.56
7:A9:28:PRO:O	8:TE:308:ARG:NH2	2.38	0.56
8:AE:133:GLN:HE22	8:AE:242:LEU:HD13	1.70	0.56
13:Ad:10:GLN:OE1	8:KC:1:MET:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Am:33:ASP:OD1	14:Am:33:ASP:N	2.38	0.56
16:At:276:ILE:HD11	16:Ax:48:TRP:CZ2	2.40	0.56
7:Au:211:ASP:OD1	9:FN:94:GLN:NE2	2.38	0.56
18:B6:131:LYS:HG3	8:KO:215:ARG:HG2	1.87	0.56
9:BH:172:SER:OG	9:BH:175:VAL:O	2.22	0.56
8:BK:138:PHE:HZ	8:BK:235:VAL:HG21	1.70	0.56
9:BL:271:ALA:HB1	9:BL:289:LEU:HD22	1.87	0.56
22:BW:83:LEU:HD11	9:JD:217:LEU:HD11	1.86	0.56
14:Ba:93:LYS:O	28:C2:217:LYS:NZ	2.36	0.56
23:Bg:35:PRO:HG2	23:Bg:37:ARG:HH21	1.70	0.56
24:Bh:104:ALA:O	9:HH:332:ASN:ND2	2.38	0.56
21:Bj:111:ASP:N	21:Bj:111:ASP:OD1	2.36	0.56
28:C2:282:SER:OG	28:C2:283:TYR:N	2.38	0.56
28:C2:403:ARG:NH1	28:C4:268:ASP:OD1	2.38	0.56
33:Cv:313:LEU:HA	33:Cx:199:ILE:HD12	1.85	0.56
33:Cx:200:SER:OG	33:Cx:201:LEU:N	2.38	0.56
8:DE:278:ALA:HA	8:DE:369:ALA:HB2	1.86	0.56
8:DG:297:GLU:O	8:DG:301:GLN:NE2	2.33	0.56
8:DI:239:THR:HG23	8:DI:243:ARG:HE	1.69	0.56
9:DJ:199:THR:OG1	9:DJ:264:HIS:O	2.24	0.56
29:DS:325:GLN:NE2	29:DS:329:ASP:OD1	2.38	0.56
8:EC:395:LEU:HD23	8:EC:422:ARG:HD3	1.86	0.56
8:EK:69:ASP:OD1	8:EK:71:GLU:N	2.24	0.56
9:EN:293:MET:HE3	9:EN:367:PHE:HB2	1.87	0.56
8:FG:242:LEU:HD22	8:FG:252:LEU:HD13	1.87	0.56
8:FM:11:GLN:HG2	8:FM:15:GLN:HE21	1.70	0.56
9:GB:226:ASN:HD21	69:GB:501:GDP:HN1	1.53	0.56
8:GK:360:PRO:O	8:GK:370:LYS:NZ	2.36	0.56
8:HE:26:LEU:HD21	8:HE:364:PRO:HD2	1.87	0.56
8:HI:90:GLU:HG3	8:HI:121:ARG:HD3	1.87	0.56
9:JD:218:THR:HG23	9:JD:219:THR:HG23	1.85	0.56
8:KC:7:ILE:HB	8:KC:137:ILE:HD13	1.87	0.56
9:KL:383:GLU:HA	9:KL:386:THR:HG22	1.86	0.56
8:MC:311:LYS:HG2	8:MC:342:GLN:HG2	1.86	0.56
9:MF:156:ARG:NH1	9:MF:160:PRO:O	2.38	0.56
9:MH:205:GLU:HA	9:MH:208:TYR:HB2	1.87	0.56
9:N0:347:ASN:ND2	8:NA:178:SER:OG	2.33	0.56
8:NC:216:ASN:ND2	8:NC:275:VAL:O	2.38	0.56
9:NJ:101:TRP:H	9:NJ:398:TYR:HE1	1.53	0.56
51:O:104:HIS:N	51:O:108:GLN:OE1	2.35	0.56
8:OA:22:GLU:OE1	8:OA:83:TYR:OH	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OE:140:SER:OG	67:OE:501:GTP:O2A	2.22	0.56
9:OL:318:ARG:HH21	9:OL:358:PRO:HG3	1.68	0.56
9:PB:239:CYS:HB3	9:PB:247:ASN:HB2	1.86	0.56
8:QA:105:ARG:O	8:QA:109:THR:OG1	2.21	0.56
8:QI:133:GLN:HG2	8:QI:252:LEU:HD12	1.87	0.56
9:QL:386:THR:OG1	9:QL:390:ARG:NH2	2.38	0.56
9:SF:313:VAL:HB	9:SF:349:VAL:HG23	1.87	0.56
9:SH:140:GLY:O	9:SH:184:ASN:ND2	2.37	0.56
8:TE:316:CYS:HB3	8:TE:378:LEU:HB2	1.86	0.56
8:TG:271:THR:HB	8:TG:377:MET:HB3	1.87	0.56
9:UN:13:GLY:HA2	9:UN:136:THR:HG22	1.87	0.56
9:VF:133:PHE:HB2	9:VF:164:MET:HE1	1.87	0.56
8:VK:245:ASP:OD1	8:VK:245:ASP:N	2.37	0.56
9:VL:263:LEU:HB2	9:VL:422:TYR:HE1	1.70	0.56
56:XJ:6:PHE:CD2	56:XJ:8:SER:HB2	2.37	0.56
63:k:74:ASP:HB3	63:k:111:ARG:HH11	1.70	0.56
2:0A:52:SER:O	2:0A:56:HIS:ND1	2.38	0.56
2:0k:34:ARG:HE	2:0k:40:LYS:HA	1.70	0.56
9:AH:249:ASP:OD1	9:AH:251:ARG:N	2.38	0.56
9:AL:262:ARG:HH12	57:YG:247:MET:HE1	1.71	0.56
9:AL:273:LEU:O	9:AL:292:GLN:NE2	2.31	0.56
8:AM:200:CYS:SG	8:AM:201:ALA:N	2.78	0.56
10:AS:2:ALA:HA	8:KC:348:PRO:HA	1.87	0.56
12:AW:141:GLN:OE1	12:AW:142:SER:N	2.39	0.56
13:Ab:421:ARG:NH2	8:EI:44:GLY:O	2.39	0.56
13:Ac:63:GLN:NE2	20:BS:361:GLY:O	2.39	0.56
15:Ar:19:PRO:HG3	15:Ar:50:GLN:HG2	1.87	0.56
7:Av:128:THR:O	9:OL:213:ARG:NH2	2.39	0.56
7:Av:238:PHE:HB3	9:OF:306:ARG:NH1	2.19	0.56
7:Ay:139:PRO:HA	8:FE:123:ARG:CZ	2.35	0.56
18:B5:206:ASN:ND2	59:c:113:ALA:O	2.38	0.56
18:B6:35:LYS:NZ	8:KM:392:ASP:OD2	2.34	0.56
8:BA:69:ASP:OD1	8:BA:69:ASP:N	2.38	0.56
8:BG:103:TYR:HD2	8:BG:413:MET:HE1	1.69	0.56
8:BG:200:CYS:HA	8:BG:266:HIS:HB2	1.86	0.56
8:BI:167:LEU:HD23	8:BI:200:CYS:HB3	1.86	0.56
8:BM:10:GLY:HA2	8:BM:145:THR:HG23	1.87	0.56
6:BN:243:GLN:OE1	8:IM:215:ARG:NH2	2.38	0.56
19:BR:131:ARG:NH2	9:MJ:407:GLU:OE1	2.37	0.56
14:Ba:213:LEU:H	14:Ba:216:ARG:HH12	1.53	0.56
14:Bb:103:ARG:HB3	29:DW:52:ARG:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bz:221:ILE:HD11	18:Bz:227:LYS:HA	1.88	0.56
28:C3:95:THR:HG22	28:C3:97:ASP:H	1.71	0.56
28:C8:414:ASP:OD2	28:C8:415:MET:N	2.38	0.56
28:C8:415:MET:HG3	28:DO:145:ASN:HD21	1.70	0.56
9:CB:314:ALA:HB3	9:CB:368:ILE:HB	1.87	0.56
8:CC:244:PHE:HB2	8:CC:356:ASN:HD21	1.70	0.56
8:CC:254:GLU:N	8:CC:254:GLU:OE1	2.38	0.56
8:CC:269:LEU:HD22	8:CC:303:VAL:HG21	1.86	0.56
8:CK:259:LEU:HD11	8:CK:316:CYS:HB2	1.87	0.56
9:CL:55:THR:HA	48:L:114:ARG:HH22	1.69	0.56
32:Cm:329:CYS:SG	32:Co:66:ARG:NH2	2.78	0.56
32:Cm:350:ARG:HH21	32:Co:48:ILE:HD11	1.70	0.56
33:Cr:122:SER:HB2	33:Cr:386:LEU:HD21	1.87	0.56
33:Cs:3:THR:N	44:ES:413:GLU:OE2	2.38	0.56
33:Cv:124:ARG:NH1	44:EZ:333:GLU:OE2	2.39	0.56
29:D4:267:ASP:OD1	29:D5:402:ARG:NH1	2.38	0.56
8:DA:287:SER:OG	8:DA:290:GLU:OE1	2.24	0.56
8:DC:311:LYS:NZ	8:DC:436:GLY:O	2.36	0.56
9:DJ:15:GLN:O	9:DJ:226:ASN:ND2	2.39	0.56
29:DQ:255:ARG:HH21	29:DQ:258:GLU:HG2	1.69	0.56
29:DS:449:MET:HE1	44:EY:375:PHE:CE2	2.40	0.56
8:EC:206:ASN:OD1	67:EC:501:GTP:N2	2.38	0.56
9:ED:125:GLU:OE2	9:FD:336:LYS:NZ	2.38	0.56
8:EG:223:THR:HG23	8:EG:225:THR:H	1.69	0.56
9:EL:209:ASP:OD1	9:EL:213:ARG:NH1	2.37	0.56
9:EN:164:MET:N	9:EN:197:ASP:OD2	2.39	0.56
44:EZ:28:ASP:OD1	44:EZ:29:VAL:N	2.38	0.56
9:FB:290:THR:HA	9:FB:293:MET:HG2	1.88	0.56
8:FC:207:GLU:HA	8:FC:210:TYR:HD2	1.70	0.56
9:FH:309:ARG:HG2	9:FH:426:GLN:HG3	1.86	0.56
9:FJ:114:ASP:OD1	9:FJ:114:ASP:N	2.35	0.56
9:FN:44:LEU:HA	9:FN:47:ILE:HB	1.88	0.56
8:GC:80:THR:O	8:GC:84:ARG:NH2	2.39	0.56
8:GI:1:MET:HG2	9:GJ:70:PRO:HG2	1.86	0.56
9:GJ:51:TYR:O	9:GJ:62:ARG:NH2	2.38	0.56
9:GL:105:HIS:HD2	9:GL:150:LEU:HD22	1.70	0.56
9:HH:149:THR:HA	9:HH:152:ILE:HD12	1.88	0.56
8:HI:254:GLU:N	8:HI:254:GLU:OE1	2.37	0.56
9:HN:67:ASP:OD1	9:HN:68:LEU:N	2.38	0.56
8:IC:401:LYS:HA	8:IC:402:ARG:HH21	1.70	0.56
9:IJ:334:GLN:NE2	9:IJ:348:ASN:OD1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IN:177:ASP:OD1	9:IN:177:ASP:N	2.36	0.56
9:IN:260:PHE:HD1	9:IN:263:LEU:HD12	1.70	0.56
8:IO:236:SER:OG	8:IO:243:ARG:NH2	2.38	0.56
9:JH:226:ASN:OD1	69:JH:501:GDP:N1	2.34	0.56
9:JL:156:ARG:NH1	9:JL:197:ASP:OD1	2.38	0.56
9:KD:135:LEU:HD22	9:KD:152:ILE:HD11	1.87	0.56
9:KL:207:LEU:HB3	9:KL:225:LEU:HD22	1.86	0.56
9:KN:337:ASN:HB3	9:KN:340:TYR:HD2	1.70	0.56
8:KO:265:ILE:HG21	8:KO:313:MET:HE1	1.86	0.56
8:LI:137:ILE:HG21	8:LI:154:MET:HE2	1.86	0.56
9:MN:282:ARG:HH12	9:MN:288:GLU:HG3	1.71	0.56
9:NB:62:ARG:NH1	9:NB:127:CYS:SG	2.79	0.56
8:NC:102:ASN:ND2	8:NC:407:TRP:O	2.38	0.56
8:NC:254:GLU:N	8:NC:254:GLU:OE2	2.38	0.56
8:NE:51:THR:HG21	8:NE:243:ARG:HG2	1.87	0.56
9:NH:189:VAL:HA	9:NH:192:LEU:HB2	1.88	0.56
8:NI:317:MET:HG3	8:NI:377:MET:HG2	1.87	0.56
9:NL:191:GLN:N	9:NL:191:GLN:OE1	2.38	0.56
8:OA:360:PRO:HG3	8:OA:374:ALA:HB2	1.87	0.56
8:OK:245:ASP:OD1	8:OK:245:ASP:N	2.36	0.56
9:PB:142:GLY:N	69:PB:501:GDP:O2B	2.37	0.56
9:PF:28:HIS:HD1	9:PF:47:ILE:HD12	1.70	0.56
8:PM:52:PHE:HE2	8:PM:243:ARG:HD3	1.70	0.56
8:QE:9:VAL:HG21	8:QE:150:ALA:HB2	1.86	0.56
8:QI:414:GLU:HG2	8:QI:416:GLY:H	1.70	0.56
8:QK:228:ASN:ND2	67:QK:501:GTP:O6	2.38	0.56
9:QL:68:LEU:HB3	9:QL:96:GLY:HA2	1.87	0.56
9:SF:139:LEU:HD12	9:SF:170:VAL:HG12	1.85	0.56
8:SI:130:THR:OG1	8:SI:131:GLY:N	2.34	0.56
8:SK:254:GLU:OE2	9:SL:99:ASN:ND2	2.33	0.56
9:TB:33:THR:O	9:TB:58:LYS:NZ	2.38	0.56
8:TC:147:SER:HB2	8:TC:190:THR:HB	1.86	0.56
8:TC:169:PHE:HA	8:TC:202:PHE:HB2	1.87	0.56
9:TJ:380:ARG:NH1	9:TJ:381:ILE:HG13	2.20	0.56
8:UE:236:SER:O	8:UE:243:ARG:NH2	2.38	0.56
8:UG:312:TYR:HE2	8:UG:341:ILE:HD11	1.70	0.56
9:UH:10:GLY:O	9:UH:14:ASN:ND2	2.38	0.56
8:UI:167:LEU:HD23	8:UI:200:CYS:HB2	1.87	0.56
9:UL:156:ARG:NH2	9:UL:197:ASP:OD2	2.37	0.56
9:UL:211:CYS:HB2	9:UL:217:LEU:HD12	1.87	0.56
9:UN:158:GLU:HG2	9:UN:159:TYR:CE1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:186:ARG:HH21	1:V:196:LYS:HE3	1.69	0.56
9:VB:276:ARG:O	9:VB:279:GLN:NE2	2.38	0.56
8:VC:55:GLU:HA	8:VC:61:HIS:HB3	1.87	0.56
9:VD:142:GLY:N	69:VD:501:GDP:O2B	2.36	0.56
9:VJ:294:PHE:HB3	55:W:141:LEU:HD13	1.86	0.56
9:VL:1:MET:HG3	9:VL:2:ARG:H	1.68	0.56
9:WF:286:VAL:HG23	9:WF:287:PRO:HD3	1.88	0.56
9:WJ:5:VAL:HG22	9:WJ:62:ARG:HD2	1.86	0.56
9:WJ:309:ARG:NH1	9:WJ:426:GLN:O	2.38	0.56
56:XG:34:ILE:HG12	56:XG:49:ILE:HG22	1.86	0.56
60:g:162:GLY:HA3	60:g:182:ASN:HB2	1.87	0.56
7:A1:155:LYS:NZ	8:PE:214:ARG:O	2.38	0.56
8:AA:435:VAL:O	9:AB:391:ARG:NH2	2.38	0.56
8:AE:137:ILE:HB	8:AE:168:GLU:OE2	2.05	0.56
8:AK:319:TYR:HB3	8:AK:323:VAL:HG21	1.85	0.56
9:BB:86:ARG:HG2	9:BB:88:ASP:H	1.71	0.56
8:BM:422:ARG:O	8:BM:422:ARG:NH1	2.38	0.56
19:BR:93:VAL:HG21	39:Dk:127:GLY:HA3	1.88	0.56
25:Bm:139:UNK:O	9:RF:320:ARG:NH2	2.38	0.56
8:CA:433:GLU:N	8:CA:433:GLU:OE1	2.37	0.56
8:CC:438:ASP:O	9:CD:391:ARG:NH1	2.37	0.56
8:CI:139:HIS:ND1	8:CI:146:GLY:O	2.38	0.56
9:CL:139:LEU:HD12	9:CL:170:VAL:HG12	1.87	0.56
2:CU:51:GLN:HG2	2:CU:71:LEU:HD13	1.86	0.56
2:Cc:12:VAL:HG22	2:Cc:76:GLU:OE2	2.05	0.56
32:Cn:331:ASP:N	32:Cn:331:ASP:OD1	2.37	0.56
33:Cr:100:GLU:OE1	44:EV:157:GLN:NE2	2.38	0.56
29:D3:379:MET:SD	29:D3:383:ARG:NH1	2.78	0.56
8:DC:136:LEU:HB3	8:DC:138:PHE:HE1	1.69	0.56
9:EF:128:ASP:OD1	9:EF:128:ASP:N	2.37	0.56
8:EI:50:ASN:O	8:EI:64:ARG:NH1	2.39	0.56
8:EK:188:ILE:HG12	8:EK:395:LEU:HD22	1.86	0.56
44:EU:324:LYS:HZ2	44:EV:71:ARG:HD2	1.68	0.56
8:FE:271:THR:HB	8:FE:377:MET:HG3	1.85	0.56
9:HJ:324:LYS:O	9:HJ:328:GLU:HB2	2.06	0.56
9:IF:91:VAL:HG21	9:IF:115:SER:HB3	1.87	0.56
9:IJ:50:TYR:OH	9:IJ:134:GLN:NE2	2.38	0.56
8:IM:138:PHE:HZ	8:IM:235:VAL:HG21	1.70	0.56
8:JM:252:LEU:O	8:JM:256:GLN:HB2	2.05	0.56
8:KK:102:ASN:HB3	8:KK:105:ARG:HB2	1.87	0.56
9:LF:229:VAL:O	9:LF:233:MET:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MJ:211:CYS:HA	9:MJ:215:LEU:HB2	1.88	0.56
9:MN:198:GLU:HG2	9:MN:266:PHE:HE2	1.71	0.56
8:NC:274:PRO:HD3	8:NC:375:VAL:HG22	1.87	0.56
9:ND:7:LEU:HD22	9:ND:64:VAL:HB	1.87	0.56
9:NL:207:LEU:HB3	9:NL:225:LEU:HD22	1.86	0.56
9:O0:271:ALA:O	9:O0:273:LEU:N	2.39	0.56
8:OE:88:HIS:HB3	8:OE:91:GLN:HB3	1.88	0.56
9:OF:130:LEU:HB2	9:OF:162:ARG:HE	1.71	0.56
8:PC:438:ASP:O	9:PD:391:ARG:NH2	2.38	0.56
9:PD:161:ASP:OD2	9:PD:162:ARG:NH1	2.37	0.56
9:PF:63:ALA:O	9:PF:89:ASN:ND2	2.38	0.56
9:PH:152:ILE:O	9:PH:195:ASN:ND2	2.33	0.56
9:QB:19:LYS:HD2	9:QB:226:ASN:HB3	1.87	0.56
9:QJ:69:GLU:HG2	9:QJ:71:GLY:H	1.70	0.56
9:QL:318:ARG:HE	9:QL:358:PRO:HD3	1.70	0.56
8:RI:301:GLN:N	8:RI:301:GLN:OE1	2.38	0.56
8:RK:188:ILE:HD11	8:RK:425:LEU:HD22	1.86	0.56
8:SA:286:LEU:O	8:SA:373:ARG:NH1	2.38	0.56
8:SE:392:ASP:OD1	8:SE:422:ARG:NH1	2.38	0.56
9:SL:67:ASP:OD1	9:SL:68:LEU:N	2.38	0.56
8:TM:277:SER:OG	8:TM:278:ALA:N	2.39	0.56
9:UB:64:VAL:HA	9:UB:89:ASN:HB3	1.87	0.56
9:UF:152:ILE:HD12	9:UF:164:MET:HE2	1.88	0.56
9:UL:324:LYS:NZ	8:UM:222:PRO:O	2.38	0.56
9:VF:259:PRO:HD2	9:VF:263:LEU:HD11	1.86	0.56
9:VJ:45:GLU:O	9:VJ:46:ARG:NH1	2.38	0.56
8:VM:209:ILE:HA	8:VM:212:ILE:HG12	1.87	0.56
47:X:425:THR:OG1	47:X:437:ARG:NH2	2.38	0.56
56:XK:50:GLU:HA	56:XK:159:ASN:H	1.71	0.56
56:XL:48:GLU:OE1	56:XL:161:ARG:NE	2.38	0.56
57:YH:120:THR:OG1	57:YH:122:PRO:O	2.23	0.56
63:n:79:ARG:HG3	63:n:81:TYR:H	1.69	0.56
2:0a:122:VAL:HG21	2:0a:143:PRO:HG2	1.87	0.56
2:0e:127:SER:OG	8:OA:84:ARG:NH1	2.39	0.56
9:AD:1:MET:N	9:AD:48:ASN:OD1	2.39	0.56
9:AH:156:ARG:HG2	9:AH:195:ASN:HD22	1.71	0.56
8:AM:274:PRO:HG3	8:AM:374:ALA:HA	1.86	0.56
11:AT:172:HIS:ND1	8:GG:322:ASP:OD2	2.39	0.56
15:Ar:26:TYR:OH	9:KF:45:GLU:OE1	2.22	0.56
7:Av:123:SER:OG	7:Av:124:ILE:N	2.38	0.56
16:Ax:116:VAL:HG13	8:EE:93:ILE:HD13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ay:52:SER:OG	7:Ay:53:PHE:N	2.38	0.56
17:B1:40:ASN:HB3	17:B1:43:VAL:HG12	1.87	0.56
8:BM:93:ILE:HD11	8:BM:121:ARG:HG3	1.87	0.56
28:C6:92:THR:HG22	29:DW:55:LEU:HD12	1.87	0.56
28:C8:196:ARG:NH1	28:DO:77:GLU:OE2	2.39	0.56
33:Cu:202:LYS:HG2	33:Cy:315:HIS:HB3	1.87	0.56
9:DH:265:PHE:HB3	9:DH:374:ILE:HD13	1.87	0.56
8:DI:276:ILE:HD12	8:DI:281:ALA:HA	1.87	0.56
43:E3:67:LEU:HD11	28:F4:302:LYS:HE2	1.87	0.56
9:FJ:118:ASP:HA	9:FJ:121:ARG:HG2	1.87	0.56
45:G:247:THR:OG1	45:G:248:PHE:N	2.39	0.56
9:HH:189:VAL:HA	9:HH:192:LEU:HB2	1.87	0.56
8:HO:167:LEU:HD21	8:HO:252:LEU:HD21	1.87	0.56
47:I:27:ARG:NH2	9:LH:71:GLY:O	2.38	0.56
9:JB:170:VAL:HG21	9:JB:377:LEU:HD21	1.86	0.56
8:JK:56:THR:HG23	8:JK:58:ALA:H	1.70	0.56
8:KC:381:THR:HG22	8:KC:383:ALA:H	1.70	0.56
8:LK:63:PRO:O	8:LK:91:GLN:NE2	2.36	0.56
9:N0:52:ASN:OD1	9:N0:62:ARG:NH2	2.38	0.56
8:NI:329:ASN:HD22	9:NJ:175:VAL:HG11	1.71	0.56
8:PA:169:PHE:HE1	8:PA:235:VAL:HG12	1.70	0.56
8:PA:202:PHE:HE1	8:PA:378:LEU:HB3	1.71	0.56
9:PB:143:THR:OG1	69:PB:501:GDP:O1B	2.24	0.56
8:PC:29:GLY:HA3	8:PC:36:MET:HE1	1.88	0.56
8:PC:286:LEU:O	8:PC:373:ARG:NH1	2.38	0.56
9:PH:136:THR:HG22	9:PH:167:PHE:HB2	1.88	0.56
8:PM:311:LYS:H	8:PM:382:THR:HG1	1.52	0.56
9:QH:306:ARG:NH1	9:QH:340:TYR:OH	2.39	0.56
8:QK:307:PRO:HB2	8:QK:312:TYR:HE2	1.69	0.56
8:QM:88:HIS:NE2	8:RM:284:GLU:OE2	2.38	0.56
9:RD:46:ARG:NH2	8:RE:76:ASP:OD2	2.39	0.56
8:RG:11:GLN:NE2	8:RG:15:GLN:OE1	2.38	0.56
8:RG:115:VAL:HG21	8:RG:152:LEU:HD22	1.88	0.56
8:SG:414:GLU:N	8:SG:414:GLU:OE1	2.38	0.56
8:SI:257:THR:HA	9:SJ:397:TRP:CZ3	2.41	0.56
8:UC:90:GLU:HG3	8:UC:121:ARG:HD3	1.87	0.56
9:UD:392:LYS:HA	9:UD:395:LEU:HD23	1.88	0.56
9:VB:321:MET:SD	9:VB:321:MET:N	2.79	0.56
9:VJ:252:LYS:HZ3	8:VK:100:ALA:HA	1.70	0.56
8:VK:320:ARG:HB3	8:VK:374:ALA:HB3	1.87	0.56
55:W:173:ALA:O	55:W:177:ASN:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WG:9:VAL:HG12	8:WG:146:GLY:HA2	1.88	0.56
8:WI:3:GLU:HA	8:WI:51:THR:HA	1.87	0.56
56:XI:54:VAL:HG12	56:XI:159:ASN:HD21	1.71	0.56
57:YI:113:PHE:HA	57:YI:131:ILE:HD11	1.85	0.56
57:YJ:203:LYS:HE3	57:YJ:221:ILE:HD13	1.86	0.56
60:f:463:HIS:NE2	60:f:481:THR:OG1	2.30	0.56
63:m:64:ASP:OD1	63:m:64:ASP:N	2.39	0.56
7:A1:30:TYR:OH	8:OK:160:ASP:OD1	2.23	0.56
7:A1:215:LYS:O	8:PA:338:LYS:NZ	2.34	0.56
9:AB:52:ASN:OD1	9:AB:62:ARG:NH1	2.38	0.56
8:AE:204:VAL:HG11	8:AE:231:ILE:HD11	1.88	0.56
10:AS:116:LYS:HD2	10:AS:117:PRO:HD2	1.88	0.56
16:At:202:SER:HB3	9:FL:336:LYS:HG2	1.86	0.56
9:BB:262:ARG:NH2	9:BB:421:GLU:OE1	2.39	0.56
8:BG:223:THR:HG21	14:Ba:233:MET:HE3	1.88	0.56
9:BH:10:GLY:O	9:BH:14:ASN:ND2	2.39	0.56
19:BP:247:LEU:HG	19:BQ:400:MET:HE1	1.86	0.56
20:BT:28:TYR:OH	9:KH:359:ARG:NH1	2.39	0.56
14:Bd:252:GLN:OE1	14:Bd:256:ARG:NH1	2.38	0.56
29:C1:204:ARG:HD2	29:C1:464:THR:HG23	1.88	0.56
9:CH:27:GLU:OE2	9:CH:318:ARG:NH2	2.36	0.56
9:CJ:330:MET:SD	9:CJ:351:THR:OG1	2.63	0.56
31:Cl:361:ASN:ND2	8:HE:226:ASN:OD1	2.38	0.56
33:Ct:402:GLU:OE1	28:F4:309:LEU:HD11	2.06	0.56
33:Cv:96:LYS:NZ	33:Cv:100:GLU:OE2	2.38	0.56
29:D5:239:ILE:HD13	29:D5:320:LEU:HD23	1.86	0.56
9:DD:170:VAL:HG21	9:DD:377:LEU:HD21	1.88	0.56
8:DE:70:LEU:HD13	8:DE:145:THR:HG23	1.86	0.56
8:DM:47:ASP:OD1	8:DM:47:ASP:N	2.38	0.56
29:DW:443:THR:HG23	29:EO:104:LEU:HD11	1.87	0.56
29:DX:333:ASP:OD2	29:DX:334:GLN:NE2	2.39	0.56
38:Df:47:GLN:HA	38:Df:50:ASP:HB2	1.86	0.56
8:EM:170:ALA:HB3	8:EM:203:MET:HE1	1.88	0.56
9:FB:2:ARG:HB3	9:FB:131:GLN:HG2	1.88	0.56
9:FB:174:LYS:HD2	9:FB:175:VAL:HG23	1.87	0.56
8:FI:88:HIS:CE1	8:FI:90:GLU:HB2	2.41	0.56
9:HJ:170:VAL:HG11	9:HJ:377:LEU:HD11	1.88	0.56
9:ID:20:PHE:CG	9:ID:233:MET:HE2	2.41	0.56
9:JB:354:CYS:SG	9:JB:355:ASP:N	2.79	0.56
9:JH:170:VAL:HG21	9:JH:377:LEU:HD11	1.87	0.56
9:JJ:17:GLY:HA2	9:JJ:20:PHE:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KF:249:ASP:OD1	9:KF:249:ASP:N	2.37	0.56
9:KL:285:THR:OG1	9:KL:288:GLU:OE1	2.23	0.56
9:KN:161:ASP:N	9:KN:161:ASP:OD1	2.36	0.56
9:KN:324:LYS:HD3	8:KO:222:PRO:HD2	1.87	0.56
9:LJ:31:ASP:OD2	9:LJ:33:THR:OG1	2.23	0.56
9:LL:359:ARG:HH12	47:Y:10:PRO:HA	1.71	0.56
8:OA:367:ASP:OD1	8:OA:367:ASP:N	2.37	0.56
9:OD:309:ARG:NH1	9:OD:341:PHE:O	2.39	0.56
9:OF:249:ASP:H	9:OF:252:LYS:HD3	1.70	0.56
9:OJ:159:TYR:HB3	9:OJ:162:ARG:HG3	1.87	0.56
9:PD:229:VAL:HG23	9:PD:300:MET:HE1	1.86	0.56
9:PH:15:GLN:NE2	69:PH:501:GDP:N7	2.54	0.56
9:PL:19:LYS:NZ	9:PL:223:GLY:O	2.39	0.56
8:QA:269:LEU:HD22	8:QA:303:VAL:HG21	1.88	0.56
9:QJ:139:LEU:HD12	9:QJ:170:VAL:HA	1.86	0.56
9:RB:202:ILE:HD11	9:RB:207:LEU:HD11	1.88	0.56
8:SC:180:ALA:HB3	8:SC:183:GLU:HG3	1.86	0.56
9:SD:7:LEU:HD13	9:SD:64:VAL:HG13	1.87	0.56
9:SD:290:THR:HA	9:SD:293:MET:HB3	1.88	0.56
8:SM:203:MET:SD	8:SM:203:MET:N	2.75	0.56
9:TH:88:ASP:OD1	9:TH:88:ASP:N	2.36	0.56
9:TJ:173:PRO:HB3	9:TJ:380:ARG:NE	2.21	0.56
8:TK:256:GLN:NE2	9:TL:397:TRP:HE1	2.04	0.56
8:TK:274:PRO:HG3	8:TK:374:ALA:HA	1.87	0.56
9:TL:1:MET:N	9:TL:3:GLU:OE2	2.36	0.56
9:UB:32:PRO:O	9:UB:83:GLN:NE2	2.38	0.56
8:UC:356:ASN:OD1	8:UC:357:TYR:N	2.39	0.56
9:UH:170:VAL:HG21	9:UH:377:LEU:HD11	1.88	0.56
9:VD:2:ARG:HB3	9:VD:131:GLN:HG3	1.87	0.56
9:VN:50:TYR:HH	9:VN:237:THR:HG1	1.48	0.56
9:VN:295:ASP:OD2	9:VN:297:LYS:NZ	2.37	0.56
9:WN:200:TYR:HE2	9:WN:368:ILE:HD12	1.71	0.56
65:s:68:PRO:HD2	65:s:72:LEU:HD12	1.88	0.56
2:0C:44:ILE:HD11	2:0C:50:VAL:HG22	1.86	0.56
4:3:1398:ARG:NH2	9:KH:412:GLU:OE2	2.39	0.56
6:A0:49:ARG:HH22	6:A0:52:CYS:H	1.53	0.56
8:AE:218:ASP:OD1	8:AE:218:ASP:N	2.33	0.56
9:AJ:282:ARG:NH2	9:AJ:292:GLN:OE1	2.39	0.56
8:AK:215:ARG:HD2	65:s:93:ILE:HD13	1.88	0.56
8:AM:70:LEU:HB2	8:AM:98:ASP:HA	1.87	0.56
11:AT:287:ALA:HB1	8:GC:370:LYS:NZ	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ad:591:ARG:O	13:Ad:591:ARG:NH1	2.38	0.56
8:BA:391:LEU:HD23	8:BA:394:LYS:HD3	1.88	0.56
9:BB:20:PHE:CE2	9:BB:233:MET:HB3	2.41	0.56
8:BC:9:VAL:HG21	8:BC:150:ALA:HB2	1.87	0.56
9:BF:22:GLU:HG2	9:BF:81:PHE:CD2	2.40	0.56
9:BF:64:VAL:HA	9:BF:89:ASN:HB3	1.88	0.56
9:BF:68:LEU:HD12	9:BF:97:ALA:HB2	1.86	0.56
9:BL:49:VAL:O	9:BL:62:ARG:NH2	2.39	0.56
8:BM:2:ARG:HA	8:BM:133:GLN:HE22	1.70	0.56
19:BP:246:GLU:N	19:BP:246:GLU:OE2	2.38	0.56
19:BQ:324:GLN:HA	19:BQ:327:GLN:HG3	1.86	0.56
27:Br:43:VAL:HG11	9:JD:94:GLN:HE21	1.70	0.56
9:CJ:86:ARG:HH22	9:DJ:282:ARG:HD2	1.71	0.56
2:CY:47:ILE:HD11	2:CY:74:CYS:SG	2.45	0.56
2:Cf:45:SER:HA	2:Cf:111:LEU:HD12	1.86	0.56
32:Cm:193:ASN:ND2	33:Cw:411:PHE:O	2.37	0.56
29:D4:113:ARG:NH1	29:D5:366:LYS:HG3	2.20	0.56
9:DB:36:TYR:OH	9:DB:40:SER:O	2.21	0.56
8:DC:206:ASN:OD1	67:DC:501:GTP:N2	2.38	0.56
8:DG:286:LEU:O	8:DG:373:ARG:NH1	2.39	0.56
9:DH:189:VAL:HG11	9:DH:378:PHE:HZ	1.71	0.56
8:DI:292:THR:HG21	8:DI:331:ALA:HB1	1.88	0.56
8:DI:344:VAL:HG12	8:DI:346:TRP:H	1.69	0.56
36:Dd:177:ARG:NH1	9:WN:71:GLY:O	2.39	0.56
9:EH:293:MET:HE2	9:EH:367:PHE:HB2	1.87	0.56
9:FH:170:VAL:HG11	9:FH:377:LEU:HD21	1.86	0.56
8:GI:79:ARG:NH2	8:GI:92:LEU:O	2.39	0.56
9:HD:131:GLN:HE21	9:HD:250:LEU:HB2	1.71	0.56
9:IH:44:LEU:HD13	53:Q:66:ARG:HE	1.71	0.56
9:JB:390:ARG:HD3	66:w:322:ALA:HB2	1.87	0.56
9:JH:91:VAL:HG21	9:JH:116:VAL:HG22	1.85	0.56
8:KC:245:ASP:O	8:KC:356:ASN:ND2	2.39	0.56
9:KN:248:ALA:HA	9:KN:252:LYS:HD2	1.86	0.56
50:L1:48:GLY:HA2	9:VB:39:ASP:HA	1.87	0.56
9:MB:207:LEU:HB3	9:MB:225:LEU:HD22	1.88	0.56
8:ME:188:ILE:HG13	8:ME:395:LEU:HD13	1.87	0.56
8:NE:30:ILE:HD12	8:NE:61:HIS:HB2	1.85	0.56
9:NH:26:ASP:N	9:NH:26:ASP:OD2	2.39	0.56
51:O:52:ARG:NH1	51:O:56:ARG:HG3	2.19	0.56
9:OJ:207:LEU:HD23	9:OJ:225:LEU:HG	1.88	0.56
8:PA:363:VAL:HG23	8:PA:366:GLY:HA3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PD:122:LYS:HE2	9:QD:291:GLN:NE2	2.21	0.56
8:PE:5:ILE:HD13	8:PE:64:ARG:HB3	1.88	0.56
53:Q:44:ASN:H	53:Q:47:SER:HB3	1.71	0.56
9:QD:293:MET:HE1	9:QD:294:PHE:CE1	2.41	0.56
8:QE:206:ASN:OD1	67:QE:501:GTP:N2	2.39	0.56
8:QI:157:LEU:HD22	8:QI:166:LYS:HD3	1.88	0.56
8:QI:239:THR:HG23	8:QI:243:ARG:HH21	1.71	0.56
9:QJ:58:LYS:NZ	9:RJ:280:GLN:OE1	2.38	0.56
9:RL:284:LEU:HD23	9:RL:362:LYS:HG2	1.88	0.56
8:SE:323:VAL:HG22	8:SE:324:VAL:H	1.70	0.56
9:SH:350:LYS:NZ	9:SH:351:THR:O	2.38	0.56
8:SM:188:ILE:HG13	8:SM:395:LEU:HD13	1.86	0.56
9:TB:248:ALA:HA	9:TB:252:LYS:HG3	1.87	0.56
8:TG:16:ILE:HA	8:TG:228:ASN:HB3	1.87	0.56
8:UI:211:ASP:O	8:UI:215:ARG:HB3	2.06	0.56
9:VD:324:LYS:NZ	8:VE:220:GLU:OE2	2.38	0.56
9:VF:210:ILE:HD11	9:VF:298:ASN:HA	1.87	0.56
8:VK:269:LEU:HG	8:VK:384:ILE:HD11	1.88	0.56
8:VK:326:LYS:HA	8:VK:329:ASN:HB2	1.86	0.56
8:WG:313:MET:HE2	8:WG:380:ASN:HB2	1.88	0.56
9:WH:131:GLN:HE22	9:WH:250:LEU:HD12	1.70	0.56
57:YL:113:PHE:HA	57:YL:131:ILE:HD11	1.88	0.56
60:f:420:ARG:HE	60:f:441:GLU:HG2	1.71	0.56
4:z:1401:ILE:O	4:z:1493:ARG:NH2	2.39	0.56
3:2:145:PRO:HD2	3:2:149:ARG:HB3	1.87	0.56
8:AE:43:GLY:O	13:Ac:93:TYR:OH	2.22	0.56
9:AJ:324:LYS:HE2	8:AK:214:ARG:HD2	1.87	0.56
10:AP:103:LEU:O	10:AP:110:ARG:NH2	2.39	0.56
17:B1:37:TRP:NE1	8:MK:298:PRO:O	2.35	0.56
9:BD:40:SER:OG	9:BD:41:ASP:N	2.38	0.56
9:BF:46:ARG:NH2	8:BG:76:ASP:OD2	2.37	0.56
9:BH:141:GLY:N	69:BH:501:GDP:O1A	2.34	0.56
8:BK:93:ILE:HD11	8:BK:121:ARG:HG3	1.86	0.56
8:BM:239:THR:OG1	8:BM:243:ARG:NH1	2.38	0.56
19:BR:251:PRO:HB2	19:BR:254:LYS:HB2	1.87	0.56
28:C7:413:ARG:HB2	28:C8:293:THR:HG21	1.87	0.56
14:CN:214:ILE:N	9:EB:41:ASP:OD2	2.38	0.56
29:D8:191:LEU:HB2	29:D8:225:ILE:HG21	1.86	0.56
9:DB:6:HIS:HB3	9:DB:63:ALA:HA	1.88	0.56
9:DD:133:PHE:HB2	9:DD:164:MET:HG2	1.88	0.56
9:DF:229:VAL:O	9:DF:233:MET:HB2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DM:54:SER:OG	8:DM:55:GLU:N	2.39	0.56
9:EJ:69:GLU:HG2	9:EJ:71:GLY:H	1.71	0.56
44:ES:410:MET:HE2	44:ES:414:LYS:HE3	1.88	0.56
44:EY:346:LYS:NZ	44:EY:387:SER:OG	2.36	0.56
9:FB:230:SER:HA	9:FB:233:MET:HE3	1.87	0.56
8:FK:437:VAL:O	9:FL:391:ARG:NH2	2.32	0.56
9:FN:398:TYR:HB3	9:FN:403:MET:HE2	1.88	0.56
8:HE:257:THR:OG1	9:HF:98:GLY:O	2.22	0.56
8:HK:381:THR:O	8:HK:432:TYR:OH	2.24	0.56
8:HO:119:LEU:HD11	8:HO:156:ARG:HG2	1.87	0.56
8:IC:98:ASP:OD1	8:IC:99:ALA:N	2.38	0.56
9:IN:190:HIS:NE2	9:IN:410:GLU:OE2	2.39	0.56
67:IN:502:GTP:N2	8:IO:206:ASN:OD1	2.39	0.56
9:JB:157:GLU:OE2	9:JB:157:GLU:N	2.37	0.56
8:JG:265:ILE:HG21	8:JG:313:MET:HE1	1.88	0.56
8:LC:190:THR:HA	8:LC:193:THR:HG22	1.86	0.56
8:LI:151:SER:HA	8:LI:193:THR:HG21	1.88	0.56
9:MB:248:ALA:HA	9:MB:252:LYS:HD2	1.86	0.56
9:MJ:230:SER:HA	9:MJ:233:MET:HB3	1.86	0.56
9:ML:178:THR:HB	9:ML:181:GLU:HB2	1.87	0.56
8:NC:9:VAL:HG23	8:NC:68:VAL:HG13	1.88	0.56
8:NC:327:ASP:N	8:NC:327:ASP:OD2	2.38	0.56
9:OF:252:LYS:HG2	8:OG:100:ALA:HA	1.87	0.56
8:OI:189:LEU:O	8:OI:192:HIS:ND1	2.39	0.56
8:OI:245:ASP:OD1	8:OI:245:ASP:N	2.35	0.56
8:PK:16:ILE:HD11	8:PK:138:PHE:HB3	1.88	0.56
9:PL:190:HIS:NE2	9:PL:410:GLU:OE2	2.38	0.56
8:QA:345:ASP:N	8:QA:345:ASP:OD1	2.36	0.56
9:QF:318:ARG:HA	9:QF:354:CYS:HB3	1.85	0.56
9:RD:406:MET:SD	9:RD:406:MET:N	2.76	0.56
9:RJ:344:TRP:HZ3	8:RK:403:ALA:HB2	1.71	0.56
8:SG:7:ILE:HB	8:SG:137:ILE:HD13	1.88	0.56
8:SI:53:PHE:O	8:SI:64:ARG:NH1	2.38	0.56
9:TD:346:PRO:HD2	8:TE:398:MET:HE3	1.88	0.56
8:VE:26:LEU:HD21	8:VE:364:PRO:HD2	1.86	0.56
8:VI:119:LEU:HD11	8:VI:156:ARG:HB3	1.87	0.56
8:VI:356:ASN:OD1	8:VI:357:TYR:N	2.39	0.56
9:VN:8:GLN:HG3	9:VN:65:LEU:HD23	1.87	0.56
9:VN:167:PHE:HA	9:VN:200:TYR:HB2	1.88	0.56
8:WC:53:PHE:HB3	8:WC:61:HIS:HB3	1.87	0.56
57:YL:52:VAL:HB	57:YL:54:ARG:NH2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:f:384:ASP:OD1	60:f:385:PHE:N	2.39	0.56
62:j:83:ASP:OD1	62:j:83:ASP:N	2.37	0.56
2:0k:15:LYS:HE3	2:0k:76:GLU:HG3	1.88	0.56
7:A4:185:TYR:O	8:RK:308:ARG:NH2	2.39	0.56
8:AC:245:ASP:OD1	8:AC:245:ASP:N	2.36	0.56
9:AL:207:LEU:HB3	9:AL:225:LEU:HD22	1.88	0.56
9:AL:270:PHE:O	9:AL:298:ASN:ND2	2.29	0.56
13:Ab:569:ARG:HG3	13:Ab:585:VAL:HG11	1.88	0.56
8:BA:297:GLU:OE2	8:BA:297:GLU:N	2.34	0.56
8:BC:17:GLY:HA2	8:BC:20:CYS:HB3	1.88	0.56
8:BC:129:CYS:SG	8:BC:130:THR:N	2.79	0.56
9:BF:248:ALA:HA	9:BF:252:LYS:HD3	1.88	0.56
9:BJ:167:PHE:HE1	9:BJ:200:TYR:HD2	1.53	0.56
19:BR:383:SER:O	19:BR:383:SER:OG	2.24	0.56
14:Bd:275:THR:O	14:Bd:278:ARG:NH2	2.38	0.56
8:CG:55:GLU:OE2	8:CG:56:THR:N	2.39	0.56
8:CI:98:ASP:OD1	8:CI:100:ALA:N	2.39	0.56
9:CL:328:GLU:OE1	9:CL:329:GLN:NE2	2.38	0.56
2:CT:24:PHE:HA	2:CT:27:ILE:HG12	1.88	0.56
2:Cf:34:ARG:NH1	2:Cf:39:ASP:O	2.38	0.56
32:Co:28:GLU:OE2	32:Co:31:ARG:NH1	2.39	0.56
33:Ct:136:GLU:HB3	33:Ct:261:THR:HG22	1.88	0.56
29:D3:113:ARG:HH12	29:D4:367:THR:HA	1.70	0.56
29:D6:164:GLU:O	29:D6:168:ASN:ND2	2.39	0.56
67:DF:502:GTP:N2	8:DG:206:ASN:OD1	2.39	0.56
39:Dl:117:SER:HB3	8:MM:263:PRO:HG2	1.87	0.56
42:E:847:LYS:HD2	42:E:857:ASN:CG	2.31	0.56
8:EK:37:PRO:HG2	8:EK:40:LYS:HD3	1.88	0.56
9:EN:114:ASP:N	9:EN:114:ASP:OD1	2.38	0.56
29:EO:201:ARG:NH1	29:EO:215:GLU:OE1	2.39	0.56
8:FG:328:VAL:HG11	8:FG:353:VAL:HG11	1.87	0.56
9:FH:385:PHE:HZ	9:FH:408:PHE:HB3	1.70	0.56
9:FJ:237:THR:HG22	9:FJ:250:LEU:HD21	1.86	0.56
9:FN:342:VAL:HG22	9:FN:344:TRP:H	1.70	0.56
45:G:2:GLU:N	45:G:2:GLU:OE1	2.39	0.56
9:GF:403:MET:HE1	9:GF:407:GLU:HB2	1.85	0.56
9:GJ:107:THR:OG1	9:GJ:401:GLU:OE2	2.24	0.56
9:IB:127:CYS:SG	9:IB:128:ASP:N	2.78	0.56
9:IF:173:PRO:HB2	9:IF:174:LYS:HE2	1.87	0.56
8:IO:241:SER:OG	8:IO:250:VAL:O	2.23	0.56
8:JC:172:TYR:HB2	8:JC:203:MET:SD	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KC:138:PHE:HZ	8:KC:235:VAL:HG21	1.71	0.56
8:KI:265:ILE:HG21	8:KI:313:MET:HE1	1.86	0.56
9:LH:295:ASP:OD1	9:LH:296:ALA:N	2.39	0.56
9:MB:130:LEU:O	9:MB:162:ARG:NH1	2.39	0.56
8:NC:239:THR:OG1	8:NC:243:ARG:NH1	2.38	0.56
8:NG:317:MET:HE1	8:NG:332:ILE:HD11	1.87	0.56
9:NH:216:LYS:HE3	9:NH:276:ARG:H	1.71	0.56
8:OI:239:THR:OG1	8:OI:243:ARG:NH1	2.38	0.56
9:PD:170:VAL:HG21	9:PD:377:LEU:HD11	1.88	0.56
8:PE:342:GLN:OE1	8:PE:343:PHE:N	2.39	0.56
8:QC:316:CYS:HB3	8:QC:378:LEU:HB2	1.87	0.56
8:QC:335:ILE:HD12	8:QC:338:LYS:HZ1	1.71	0.56
8:QM:98:ASP:OD1	8:QM:99:ALA:N	2.39	0.56
8:RA:55:GLU:OE1	8:RA:61:HIS:NE2	2.38	0.56
9:RJ:252:LYS:HB3	9:RJ:350:LYS:NZ	2.20	0.56
8:SK:104:ALA:HB2	8:SK:413:MET:HE2	1.88	0.56
9:SL:216:LYS:HE3	9:SL:216:LYS:HA	1.88	0.56
9:TF:86:ARG:HB2	9:TF:89:ASN:HB2	1.87	0.56
8:UE:123:ARG:NH2	8:UE:160:ASP:OD2	2.39	0.56
9:VB:372:THR:O	9:VB:375:GLN:NE2	2.37	0.56
8:VC:245:ASP:OD1	8:VC:245:ASP:N	2.38	0.56
56:XI:72:LYS:HZ3	57:YH:78:ARG:HG2	1.70	0.56
60:f:338:VAL:HG12	60:f:355:ALA:HB2	1.88	0.56
2:0e:130:GLU:HA	2:0e:134:HIS:HB2	1.88	0.56
7:A2:32:ILE:O	8:QA:215:ARG:NH2	2.38	0.56
11:AT:232:LEU:HD22	29:DX:344:LEU:HD11	1.88	0.56
14:Ao:103:ARG:NH1	29:DT:52:ARG:O	2.39	0.56
7:Av:162:SER:OG	7:Av:163:ILE:N	2.38	0.56
18:B5:51:THR:HG1	9:KH:337:ASN:HD21	1.53	0.56
9:BF:39:ASP:OD2	9:BF:39:ASP:N	2.39	0.56
9:BF:321:MET:HE2	9:BF:363:MET:HB3	1.89	0.56
20:BT:165:TRP:HA	20:BT:169:GLY:HA2	1.87	0.56
22:BW:69:TRP:HE1	27:Br:57:LEU:HD23	1.70	0.56
21:Bk:313:ARG:HH22	9:LL:55:THR:HG21	1.71	0.56
18:Bz:239:GLN:OE1	59:a:109:ARG:NH2	2.39	0.56
28:C5:467:TYR:CE2	28:C5:471:ASP:HB2	2.41	0.56
28:C9:199:LEU:HD23	44:ET:44:SER:HB3	1.88	0.56
8:CA:97:GLU:OE2	8:CA:105:ARG:NH2	2.38	0.56
9:CF:186:THR:HG22	9:CF:415:MET:HE2	1.88	0.56
2:Ce:23:GLN:NE2	2:Ce:139:VAL:HG21	2.20	0.56
2:Cf:39:ASP:OD2	2:Cf:53:TYR:OH	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Cl:340:ASP:OD2	8:IE:221:ARG:NH1	2.39	0.56
33:Cr:321:ARG:NH2	33:Cr:332:ASP:OD2	2.39	0.56
29:D5:405:ARG:HB2	29:D5:410:LEU:HD12	1.88	0.56
8:DA:204:VAL:HA	8:DA:302:MET:HE1	1.88	0.56
9:DB:256:ASN:HD22	9:DB:350:LYS:HG3	1.69	0.56
9:DD:170:VAL:HG22	9:DD:171:PRO:HD3	1.88	0.56
9:DD:293:MET:SD	9:DD:367:PHE:HB2	2.46	0.56
8:DG:102:ASN:HD21	8:DG:105:ARG:HG3	1.72	0.56
9:DJ:178:THR:HB	9:DJ:181:GLU:HB2	1.87	0.56
9:EB:262:ARG:NH1	9:EB:421:GLU:OE1	2.38	0.56
9:EL:371:SER:OG	9:EL:372:THR:N	2.39	0.56
9:FB:328:GLU:OE2	9:FB:329:GLN:NE2	2.39	0.56
9:FL:33:THR:O	9:FL:58:LYS:NZ	2.39	0.56
8:FM:311:LYS:HB3	8:FM:344:VAL:HG22	1.86	0.56
9:GJ:330:MET:HB3	9:GJ:349:VAL:HG11	1.88	0.56
9:HB:376:GLU:HA	9:HB:379:LYS:HZ3	1.71	0.56
8:HI:26:LEU:HD11	8:HI:364:PRO:HD3	1.87	0.56
8:HK:90:GLU:HG3	8:HK:121:ARG:HD3	1.87	0.56
8:HO:274:PRO:HB2	8:HO:371:VAL:HG21	1.87	0.56
9:IB:170:VAL:HG21	9:IB:377:LEU:HD21	1.88	0.56
8:IO:259:LEU:O	8:IO:380:ASN:ND2	2.38	0.56
9:JB:275:SER:HG	9:JB:278:SER:HG	1.54	0.56
9:JJ:39:ASP:OD1	9:JJ:39:ASP:N	2.38	0.56
9:JN:134:GLN:HE21	9:JN:167:PHE:HE1	1.52	0.56
9:JN:173:PRO:HD2	9:JN:205:GLU:HG2	1.88	0.56
8:KC:64:ARG:NH1	8:KC:129:CYS:SG	2.78	0.56
8:KE:353:VAL:HG22	9:KF:177:ASP:HB2	1.87	0.56
9:KF:12:CYS:SG	9:KF:13:GLY:N	2.79	0.56
9:LB:194:GLU:N	9:LB:194:GLU:OE1	2.39	0.56
8:LM:113:GLU:OE2	8:LM:113:GLU:N	2.39	0.56
9:MF:309:ARG:NH1	9:MF:339:SER:O	2.39	0.56
8:NE:248:LEU:HD13	8:NE:355:ILE:HD12	1.88	0.56
9:O0:260:PHE:HE2	8:OA:403:ALA:HA	1.71	0.56
8:OA:295:CYS:HB3	8:OA:377:MET:HE2	1.87	0.56
9:OB:324:LYS:NZ	8:OC:222:PRO:O	2.39	0.56
8:OE:56:THR:HG23	8:PE:285:GLN:HB3	1.88	0.56
9:OH:282:ARG:NH2	9:OH:292:GLN:OE1	2.39	0.56
9:OL:5:VAL:HG23	9:OL:62:ARG:HG2	1.87	0.56
8:PM:72:PRO:O	8:PM:76:ASP:HB2	2.06	0.56
9:QB:210:ILE:O	9:QB:214:THR:OG1	2.22	0.56
9:QF:299:MET:SD	9:QF:299:MET:N	2.79	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QH:252:LYS:NZ	8:QI:101:ASN:OD1	2.38	0.56
8:QI:317:MET:N	8:QI:352:LYS:O	2.34	0.56
9:QJ:11:GLN:NE2	9:QJ:67:ASP:OD1	2.39	0.56
9:RD:31:ASP:OD1	9:RD:35:THR:N	2.36	0.56
9:RH:194:GLU:OE2	9:RH:262:ARG:NH1	2.38	0.56
9:RL:314:ALA:HB3	9:RL:368:ILE:HB	1.88	0.56
8:TI:382:THR:HA	8:TI:432:TYR:HE1	1.71	0.56
9:WN:270:PHE:O	9:WN:298:ASN:ND2	2.33	0.56
59:d:496:ASP:OD1	59:d:499:ARG:NH1	2.39	0.56
60:f:176:MET:HG2	60:f:188:TRP:HB2	1.88	0.56
60:g:519:GLN:HA	60:g:534:VAL:HG23	1.86	0.56
65:r:68:PRO:HD2	65:r:72:LEU:HD22	1.88	0.56
2:0e:118:TYR:CD1	2:0e:119:PRO:HA	2.41	0.55
5:A:29:TRP:CE2	5:A:33:TYR:HE2	2.22	0.55
7:A1:56:ALA:HB2	9:PJ:297:LYS:HZ3	1.70	0.55
7:A8:112:THR:OG1	7:A8:113:LYS:NZ	2.38	0.55
8:AE:326:LYS:HE2	9:AF:219:THR:HA	1.88	0.55
13:Ad:272:LYS:NZ	13:Ad:323:ASP:OD2	2.27	0.55
13:Ad:480:PHE:HE1	9:EB:360:GLY:HA3	1.70	0.55
9:BB:52:ASN:OD1	9:BB:62:ARG:NH2	2.35	0.55
8:BG:37:PRO:HB2	8:BG:40:LYS:HG3	1.88	0.55
9:BJ:209:ASP:OD1	9:BJ:213:ARG:NH1	2.39	0.55
14:Bb:207:GLN:OE1	29:DW:308:ARG:NH1	2.38	0.55
9:CF:100:ASN:HD21	9:CF:397:TRP:HB3	1.71	0.55
8:CM:286:LEU:O	8:CM:373:ARG:NH1	2.39	0.55
2:CT:64:ARG:O	2:CT:68:LEU:HB2	2.06	0.55
32:Cm:131:GLU:O	32:Cm:135:GLU:HG3	2.06	0.55
32:Cn:37:LEU:HD21	32:Cp:358:ALA:HA	1.88	0.55
29:D5:286:VAL:HG22	29:D7:396:GLN:HE21	1.71	0.55
29:D5:296:PRO:HA	29:D5:299:TRP:HB3	1.87	0.55
9:DB:15:GLN:NE2	69:DB:501:GDP:O6	2.39	0.55
9:DF:51:TYR:HB3	9:DF:59:TYR:HB3	1.88	0.55
9:DN:103:LYS:HG2	9:DN:108:GLU:HB2	1.88	0.55
29:DV:309:HIS:O	29:DV:313:MET:HG2	2.06	0.55
38:Dh:79:LYS:NZ	47:X:102:TYR:OH	2.39	0.55
43:E4:98:TYR:HA	43:E4:101:ARG:HD3	1.88	0.55
9:EH:67:ASP:OD2	9:EH:68:LEU:N	2.40	0.55
8:FC:204:VAL:HG13	8:FC:302:MET:HB3	1.86	0.55
8:FK:238:ILE:HG23	8:FK:239:THR:HG23	1.88	0.55
9:ID:8:GLN:HE21	9:ID:17:GLY:HA3	1.71	0.55
8:II:84:ARG:NH2	53:Q:73:ASN:OD1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JC:315:CYS:HB3	8:JC:377:MET:HE2	1.87	0.55
9:JD:327:ASP:HB3	8:JE:177:VAL:HG21	1.87	0.55
8:KI:250:VAL:HA	8:KI:254:GLU:OE1	2.05	0.55
8:LE:206:ASN:OD1	67:LE:501:GTP:N2	2.38	0.55
8:MG:3:GLU:HA	8:MG:51:THR:HA	1.88	0.55
8:NA:70:LEU:HD23	8:NA:145:THR:HG23	1.87	0.55
9:ND:3:GLU:OE1	9:ND:62:ARG:NH1	2.39	0.55
9:OB:236:VAL:HG13	9:OB:237:THR:HG23	1.88	0.55
8:OE:334:THR:O	8:OE:338:LYS:HG2	2.07	0.55
8:RC:18:ASN:HD21	8:RC:78:VAL:HG22	1.71	0.55
9:RD:101:TRP:O	9:RD:105:HIS:N	2.38	0.55
8:RG:238:ILE:HG23	8:RG:255:PHE:HE2	1.71	0.55
9:RJ:31:ASP:OD2	9:RJ:34:GLY:N	2.33	0.55
9:RL:166:THR:OG1	9:RL:198:GLU:O	2.23	0.55
9:RL:169:VAL:HA	9:RL:202:ILE:HG23	1.88	0.55
9:RL:391:ARG:O	9:RL:391:ARG:NH1	2.35	0.55
9:SF:40:SER:OG	9:SF:41:ASP:N	2.38	0.55
9:SL:130:LEU:O	9:SL:162:ARG:NE	2.37	0.55
9:UJ:321:MET:N	9:UJ:321:MET:SD	2.80	0.55
9:UN:141:GLY:O	9:UN:184:ASN:ND2	2.38	0.55
8:VE:325:PRO:O	8:VE:329:ASN:ND2	2.38	0.55
9:VF:276:ARG:NH2	59:b:454:GLN:HB3	2.20	0.55
9:VH:2:ARG:HB3	9:VH:131:GLN:HB2	1.88	0.55
8:WI:310:GLY:HA3	8:WI:383:ALA:HB2	1.88	0.55
9:WL:219:THR:O	9:WL:219:THR:OG1	2.25	0.55
60:e:179:THR:HG23	60:e:214:ILE:HD13	1.88	0.55
60:f:180:ALA:HB2	60:f:185:ILE:HG13	1.87	0.55
66:u:358:ARG:HH21	66:u:361:LEU:HD23	1.70	0.55
2:0C:157:GLU:N	2:0C:157:GLU:OE1	2.39	0.55
2:0a:127:SER:OG	8:RM:279:GLU:OE1	2.22	0.55
8:AA:133:GLN:O	8:AA:165:SER:OG	2.25	0.55
8:AE:53:PHE:O	8:AE:64:ARG:NH1	2.39	0.55
14:Al:52:PRO:HD2	9:DD:39:ASP:HA	1.88	0.55
8:BI:325:PRO:O	8:BI:329:ASN:ND2	2.39	0.55
21:BV:297:ARG:NH1	35:Da:144:GLU:OE1	2.38	0.55
14:Bc:292:SER:HB3	14:Bc:311:LYS:HE3	1.89	0.55
24:Bh:91:ARG:HH22	9:GH:70:PRO:HG2	1.71	0.55
28:C2:121:ARG:HH12	28:C3:374:GLN:HB2	1.71	0.55
8:CC:319:TYR:HD2	8:CC:323:VAL:HG11	1.71	0.55
8:CI:356:ASN:OD1	8:CI:357:TYR:N	2.40	0.55
33:Cr:400:PRO:HB3	43:E2:86:PRO:HB3	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Cs:169:ARG:HG2	33:Cs:173:ASN:HD21	1.71	0.55
33:Cu:341:GLU:OE1	33:Cw:60:ASN:ND2	2.39	0.55
29:D2:409:GLU:OE2	29:D8:299:TRP:NE1	2.39	0.55
29:D5:132:GLN:HE21	29:D9:154:PHE:HD1	1.54	0.55
8:DA:319:TYR:HB3	8:DA:323:VAL:HG21	1.88	0.55
9:DB:2:ARG:HH12	8:DC:98:ASP:HB2	1.70	0.55
9:DB:172:SER:OG	9:DB:205:GLU:OE1	2.25	0.55
9:DD:14:ASN:ND2	9:DD:67:ASP:OD2	2.39	0.55
9:DN:382:SER:HB2	9:DN:415:MET:HE3	1.89	0.55
29:EQ:405:ARG:HH21	29:EQ:410:LEU:HD12	1.71	0.55
9:FL:271:ALA:O	9:FL:292:GLN:NE2	2.39	0.55
9:FN:272:PRO:HG3	9:FN:364:SER:HA	1.89	0.55
9:GL:133:PHE:CD1	9:GL:164:MET:HE1	2.41	0.55
8:HI:192:HIS:NE2	8:HI:421:ALA:HA	2.21	0.55
8:JC:102:ASN:HB3	8:JC:105:ARG:HB3	1.87	0.55
8:JC:402:ARG:NH1	58:q:78:ASN:OD1	2.39	0.55
9:JF:257:MET:HE1	9:JF:314:ALA:HB2	1.88	0.55
9:JL:117:LEU:HD13	9:JL:121:ARG:HH22	1.72	0.55
9:JL:286:VAL:HG22	9:JL:321:MET:HE2	1.88	0.55
9:KD:130:LEU:O	9:KD:162:ARG:NH2	2.39	0.55
8:KK:50:ASN:O	8:KK:64:ARG:NH1	2.39	0.55
9:LB:324:LYS:NZ	8:LC:220:GLU:OE2	2.39	0.55
8:LM:30:ILE:HD13	8:LM:36:MET:HB2	1.88	0.55
9:MH:293:MET:HE2	9:MH:367:PHE:HB2	1.87	0.55
8:MM:269:LEU:HD21	8:MM:384:ILE:HD12	1.89	0.55
9:N0:257:MET:SD	9:N0:257:MET:N	2.78	0.55
8:NK:191:THR:HG23	8:NK:425:LEU:HD21	1.88	0.55
8:OC:139:HIS:ND1	8:OC:146:GLY:O	2.39	0.55
9:OL:308:GLY:HA3	9:OL:373:ALA:HB2	1.87	0.55
9:PB:83:GLN:O	9:QB:281:TYR:OH	2.21	0.55
8:QA:388:TRP:HZ3	8:QA:428:LEU:HD23	1.70	0.55
9:QJ:8:GLN:HE22	9:QJ:16:ILE:HG23	1.71	0.55
9:RB:178:THR:HB	9:RB:181:GLU:HB3	1.87	0.55
9:RB:324:LYS:HB2	8:RC:222:PRO:HD2	1.89	0.55
8:RG:88:HIS:NE2	8:SG:284:GLU:OE1	2.38	0.55
9:RH:83:GLN:OE1	9:SH:281:TYR:OH	2.22	0.55
9:RH:84:ILE:H	9:RH:84:ILE:HD12	1.71	0.55
8:SK:90:GLU:HB3	8:SK:121:ARG:HH12	1.71	0.55
9:TB:362:LYS:HE3	46:o:518:GLN:HG3	1.86	0.55
8:TE:8:HIS:CD2	8:TE:17:GLY:HA3	2.41	0.55
8:TE:392:ASP:OD1	8:TE:422:ARG:NH1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TH:242:PHE:CD1	9:TH:356:ILE:HB	2.41	0.55
9:UJ:209:ASP:OD1	9:UJ:213:ARG:NH1	2.40	0.55
9:UL:139:LEU:HD12	9:UL:170:VAL:HG12	1.88	0.55
9:VB:234:SER:OG	9:VB:241:ARG:NH2	2.40	0.55
8:VC:255:PHE:HZ	8:VC:318:LEU:HD21	1.71	0.55
8:VM:97:GLU:OE2	8:VM:110:ILE:HG21	2.06	0.55
9:WB:257:MET:O	9:WB:370:ASN:ND2	2.39	0.55
9:WF:178:THR:HG22	9:WF:180:VAL:H	1.71	0.55
9:WJ:386:THR:O	9:WJ:390:ARG:NE	2.38	0.55
8:WM:319:TYR:HD2	8:WM:323:VAL:HG11	1.72	0.55
56:XI:79:ILE:HG12	56:XI:131:GLN:OE1	2.07	0.55
56:XI:81:LYS:HB3	56:XI:161:ARG:HB2	1.87	0.55
59:b:332:LYS:NZ	59:b:335:ASP:OD1	2.39	0.55
3:x:63:ILE:HG23	3:x:131:LEU:HD13	1.88	0.55
2:0A:146:LEU:HB3	2:0A:150:LYS:HZ2	1.70	0.55
7:A8:163:ILE:HG12	9:TJ:294:PHE:HB3	1.89	0.55
7:A8:236:VAL:HG12	9:TF:332:ASN:HB3	1.89	0.55
8:AC:308:ARG:NH1	65:t:75:ARG:O	2.39	0.55
9:AD:140:GLY:O	9:AD:184:ASN:ND2	2.39	0.55
12:AV:302:GLU:OE1	12:AV:352:GLN:NE2	2.39	0.55
14:An:28:ARG:HH21	8:EM:221:ARG:HH11	1.52	0.55
18:B6:215:GLN:HB3	9:VN:83:GLN:OE1	2.06	0.55
8:BA:317:MET:HE1	8:BA:377:MET:HG3	1.88	0.55
8:BG:259:LEU:HD13	8:BG:268:PRO:HG3	1.87	0.55
8:BI:287:SER:N	8:BI:290:GLU:OE2	2.39	0.55
19:BP:209:MET:HB3	19:BP:321:ILE:HD12	1.88	0.55
21:BV:130:ASP:OD1	21:BV:130:ASP:N	2.39	0.55
27:Br:80:LYS:NZ	9:ID:39:ASP:O	2.38	0.55
5:C:85:GLN:N	5:C:85:GLN:HE21	2.03	0.55
8:CI:323:VAL:HG11	8:CI:355:ILE:HD12	1.87	0.55
8:CK:335:ILE:HA	8:CK:338:LYS:NZ	2.22	0.55
14:CN:239:ASP:OD1	14:CN:239:ASP:N	2.39	0.55
2:Cj:111:LEU:HG	2:Cj:114:LEU:HD13	1.88	0.55
32:Cp:320:ARG:NH1	32:Cp:334:GLN:OE1	2.39	0.55
9:DJ:31:ASP:OD1	9:DJ:35:THR:N	2.39	0.55
8:EE:37:PRO:HD2	8:EE:40:LYS:HE3	1.88	0.55
9:EF:382:SER:HB2	9:EF:415:MET:HG3	1.88	0.55
29:EO:162:GLU:HG3	29:EO:253:LEU:HD21	1.88	0.55
44:ES:315:ARG:NH1	44:ES:420:THR:OG1	2.39	0.55
9:FJ:245:GLN:OE1	8:FK:223:THR:OG1	2.25	0.55
45:G:26:SER:OG	45:G:38:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GI:188:ILE:HD12	8:GI:395:LEU:HD13	1.88	0.55
9:HB:46:ARG:NH1	8:HC:76:ASP:OD2	2.33	0.55
9:HD:30:ILE:HG21	9:HD:51:TYR:HE2	1.72	0.55
9:HH:260:PHE:CE2	9:HH:425:TYR:HE2	2.25	0.55
9:HH:324:LYS:HB3	8:HI:222:PRO:HD2	1.88	0.55
48:J:148:HIS:NE2	47:X:339:GLY:O	2.36	0.55
8:JC:437:VAL:O	9:JD:391:ARG:NH2	2.39	0.55
9:JD:362:LYS:HG2	9:JD:363:MET:HE2	1.86	0.55
9:JH:3:GLU:HG2	9:JH:127:CYS:HB2	1.87	0.55
8:JM:425:LEU:HA	8:JM:428:LEU:HB2	1.89	0.55
9:JN:272:PRO:HG3	9:JN:364:SER:HA	1.89	0.55
8:KC:206:ASN:ND2	67:KC:501:GTP:O2'	2.40	0.55
8:KE:71:GLU:OE2	8:KE:73:THR:OG1	2.24	0.55
9:KF:51:TYR:O	9:KF:62:ARG:NH2	2.39	0.55
9:KF:236:VAL:HG23	9:KF:237:THR:HG23	1.89	0.55
8:KG:5:ILE:HD13	8:KG:64:ARG:HB3	1.88	0.55
9:LF:20:PHE:HA	9:LF:230:SER:HB2	1.89	0.55
8:MI:71:GLU:HB2	8:MI:98:ASP:HB3	1.89	0.55
9:NF:325:GLU:O	9:NF:329:GLN:HG3	2.07	0.55
9:O0:187:LEU:HD13	9:O0:411:ALA:HB2	1.87	0.55
9:PB:354:CYS:SG	9:PB:355:ASP:N	2.79	0.55
9:PJ:66:VAL:HG12	9:PJ:91:VAL:HB	1.87	0.55
9:PJ:143:THR:N	69:PJ:501:GDP:O1B	2.39	0.55
8:QE:313:MET:HB3	8:QE:380:ASN:HB3	1.87	0.55
9:QF:156:ARG:HH21	9:QF:164:MET:H	1.54	0.55
9:QL:192:LEU:HD21	9:QL:199:THR:HG21	1.88	0.55
8:QM:260:VAL:HG21	8:QM:265:ILE:HD11	1.87	0.55
8:RE:2:ARG:NH1	8:RE:242:LEU:O	2.39	0.55
9:RF:267:MET:HE1	9:RF:305:PRO:HG3	1.89	0.55
8:RG:175:PRO:O	8:RG:394:LYS:NZ	2.39	0.55
8:SG:133:GLN:HE21	8:SG:242:LEU:HD21	1.72	0.55
9:SJ:345:ILE:HG23	8:SK:398:MET:HE2	1.88	0.55
8:TE:195:LEU:HD21	8:TE:264:ARG:HE	1.72	0.55
8:TK:295:CYS:HB3	8:TK:377:MET:HG3	1.89	0.55
9:UD:236:VAL:HG13	9:UD:237:THR:HG23	1.88	0.55
8:UE:241:SER:OG	8:UE:250:VAL:O	2.22	0.55
8:UG:206:ASN:OD1	67:UG:501:GTP:N2	2.38	0.55
9:UL:141:GLY:O	9:UL:184:ASN:ND2	2.39	0.55
9:VD:153:SER:HA	9:VD:195:ASN:HD21	1.70	0.55
8:VE:371:VAL:HG22	8:VE:373:ARG:H	1.72	0.55
8:VI:71:GLU:HB2	8:VI:98:ASP:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VI:214:ARG:NH1	55:W:115:GLY:O	2.39	0.55
9:VJ:6:HIS:HB3	9:VJ:63:ALA:HA	1.88	0.55
8:VK:311:LYS:H	8:VK:382:THR:HG22	1.71	0.55
8:WK:96:LYS:HZ2	59:c:84:MET:HE1	1.71	0.55
9:WL:27:GLU:HA	9:WL:359:ARG:NH1	2.21	0.55
57:YJ:86:GLU:HB2	57:YJ:95:ALA:HB2	1.89	0.55
58:p:79:LYS:HB2	66:v:350:MET:HE1	1.87	0.55
7:A7:70:TYR:H	8:SI:308:ARG:HH12	1.55	0.55
8:AA:298:PRO:HB3	8:AA:307:PRO:HD2	1.87	0.55
9:AH:87:PRO:HA	9:AH:90:PHE:HD2	1.71	0.55
8:AM:11:GLN:HG3	8:AM:74:VAL:HG21	1.88	0.55
13:Ac:81:GLU:OE1	9:BF:276:ARG:NH1	2.38	0.55
7:Aw:52:SER:OG	7:Aw:53:PHE:N	2.39	0.55
5:B:158:SER:O	5:B:161:ARG:NH1	2.38	0.55
8:BC:138:PHE:HZ	8:BC:235:VAL:HG21	1.72	0.55
9:CL:276:ARG:HH22	47:Y:313:LEU:HD22	1.71	0.55
2:Cj:130:GLU:HA	2:Cj:134:HIS:HB2	1.87	0.55
8:DA:50:ASN:OD1	8:DA:50:ASN:N	2.39	0.55
8:DC:386:GLU:HG2	8:DC:390:ARG:HH21	1.71	0.55
8:DE:75:VAL:HA	8:DE:78:VAL:HG12	1.88	0.55
8:DE:158:SER:OG	8:DE:166:LYS:NZ	2.40	0.55
8:DE:211:ASP:OD2	8:DE:211:ASP:N	2.38	0.55
8:DI:211:ASP:OD1	8:DI:211:ASP:N	2.39	0.55
29:DW:177:LYS:HB2	29:DW:239:ILE:HG21	1.89	0.55
9:EH:132:GLY:HA3	9:EH:163:ILE:HG22	1.88	0.55
8:EK:388:TRP:HB3	8:EK:425:LEU:HD21	1.88	0.55
8:EM:137:ILE:HG13	8:EM:154:MET:HE1	1.88	0.55
29:EO:332:ALA:HB1	29:EO:482:THR:HB	1.89	0.55
9:HF:170:VAL:HG11	9:HF:377:LEU:HD11	1.87	0.55
9:HJ:86:ARG:NH2	9:IJ:281:TYR:O	2.40	0.55
9:HL:170:VAL:HG11	9:HL:377:LEU:HD21	1.88	0.55
8:HO:54:SER:HA	8:HO:64:ARG:HH21	1.71	0.55
8:IC:36:MET:HE3	8:IC:37:PRO:HD2	1.88	0.55
8:IK:50:ASN:O	8:IK:64:ARG:NH1	2.40	0.55
8:JI:367:ASP:OD1	8:JI:367:ASP:N	2.36	0.55
9:JJ:58:LYS:HZ1	9:MJ:280:GLN:HB2	1.72	0.55
9:MB:309:ARG:H	9:MB:372:THR:HG22	1.70	0.55
9:N0:66:VAL:HG23	9:N0:91:VAL:HG13	1.88	0.55
9:N0:321:MET:SD	9:N0:321:MET:N	2.78	0.55
9:O0:311:LEU:HD13	9:O0:342:VAL:HG11	1.88	0.55
8:OC:121:ARG:HA	8:OC:124:LYS:HZ2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OI:214:ARG:NH1	8:OI:220:GLU:OE2	2.40	0.55
8:OK:115:VAL:HG11	8:OK:152:LEU:HD23	1.89	0.55
8:PG:335:ILE:HA	8:PG:338:LYS:NZ	2.21	0.55
9:PL:156:ARG:HH12	9:PL:196:THR:HA	1.71	0.55
9:QB:7:LEU:O	9:QB:8:GLN:NE2	2.39	0.55
9:QD:199:THR:OG1	9:QD:264:HIS:O	2.24	0.55
9:QD:245:GLN:O	8:QE:11:GLN:NE2	2.40	0.55
8:RC:115:VAL:HG21	8:RC:152:LEU:HG	1.87	0.55
8:RE:70:LEU:HD12	8:RE:145:THR:HA	1.87	0.55
8:RE:274:PRO:HG3	8:RE:374:ALA:HA	1.88	0.55
8:RM:381:THR:HG22	8:RM:383:ALA:H	1.72	0.55
8:SI:140:SER:OG	67:SI:501:GTP:O2A	2.21	0.55
9:SL:73:MET:HE3	9:SL:77:ARG:HH22	1.71	0.55
8:TE:202:PHE:HE1	8:TE:378:LEU:HD12	1.70	0.55
9:TF:113:VAL:HG22	9:TF:117:LEU:HD23	1.89	0.55
9:TH:130:LEU:O	9:TH:162:ARG:NH2	2.39	0.55
9:UH:131:GLN:NE2	8:UI:97:GLU:OE2	2.35	0.55
9:VD:132:GLY:HA2	9:VD:162:ARG:HB3	1.87	0.55
9:VF:66:VAL:HG12	9:VF:91:VAL:HB	1.87	0.55
8:VI:320:ARG:HD3	8:VI:360:PRO:HG3	1.89	0.55
9:VN:279:GLN:HG3	59:b:234:ARG:HH12	1.71	0.55
8:WE:138:PHE:HD1	8:WE:169:PHE:HB2	1.72	0.55
9:WJ:354:CYS:SG	9:WJ:355:ASP:N	2.79	0.55
8:WM:15:GLN:O	8:WM:228:ASN:ND2	2.40	0.55
56:XI:82:ASN:ND2	56:XI:126:ASP:O	2.38	0.55
56:XJ:101:ARG:NH1	56:XJ:116:PRO:O	2.40	0.55
57:YI:135:LEU:HD13	57:YI:142:ILE:HD13	1.89	0.55
59:c:249:ARG:HD2	59:c:252:ARG:HH12	1.70	0.55
60:e:129:LEU:O	60:e:143:TRP:N	2.36	0.55
2:0E:54:MET:HE2	2:0E:55:GLU:HG3	1.88	0.55
3:2:134:ARG:HH12	3:2:170:THR:HB	1.71	0.55
7:A1:25:SER:O	8:PK:338:LYS:NZ	2.36	0.55
8:AA:11:GLN:HG3	8:AA:74:VAL:HG21	1.89	0.55
11:AT:161:CYS:SG	11:AT:162:GLN:N	2.79	0.55
13:Ac:440:ILE:HD12	13:Ac:508:LEU:HD11	1.88	0.55
13:Ac:480:PHE:HE2	9:EF:360:GLY:HA3	1.72	0.55
9:BB:22:GLU:HA	9:BB:81:PHE:CD2	2.42	0.55
9:BD:170:VAL:HG11	9:BD:377:LEU:HD21	1.87	0.55
8:BI:264:ARG:NH1	8:BI:431:ASP:OD2	2.39	0.55
19:BP:462:ARG:HG3	9:MH:402:GLY:HA3	1.87	0.55
21:BV:98:GLN:NE2	8:LK:370:LYS:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BX:35:GLU:N	22:BX:35:GLU:OE1	2.39	0.55
23:Bg:130:CYS:O	8:HO:293:ASN:ND2	2.40	0.55
21:Bj:188:ARG:NH1	9:LD:55:THR:OG1	2.39	0.55
27:Br:106:LYS:HZ1	9:HD:33:THR:HG23	1.72	0.55
8:CA:305:CYS:SG	8:CA:306:ASP:N	2.79	0.55
9:CD:83:GLN:O	9:DD:281:TYR:OH	2.25	0.55
14:CO:19:GLY:O	8:DG:79:ARG:NH1	2.40	0.55
2:Cd:33:CYS:HA	2:Cd:36:ASN:OD1	2.07	0.55
33:Cq:409:ASP:N	33:Cq:409:ASP:OD1	2.40	0.55
33:Cw:95:MET:HE1	43:E1:189:LEU:HD21	1.88	0.55
29:D1:125:ARG:NH2	29:D1:129:ASP:OD1	2.39	0.55
29:D3:290:ASP:OD1	29:D3:290:ASP:N	2.40	0.55
8:DE:168:GLU:HB2	8:DE:201:ALA:HA	1.87	0.55
9:DH:199:THR:OG1	9:DH:264:HIS:O	2.24	0.55
8:DK:188:ILE:HG13	8:DK:395:LEU:HD22	1.87	0.55
29:DV:201:ARG:NH2	29:DV:468:ASP:OD1	2.39	0.55
9:EJ:322:SER:HB3	8:EK:223:THR:HG22	1.89	0.55
44:EU:170:ASP:OD1	44:EU:170:ASP:N	2.40	0.55
8:FI:259:LEU:HD11	8:FI:378:LEU:HD23	1.88	0.55
9:GB:140:GLY:O	9:GB:184:ASN:ND2	2.36	0.55
8:GI:238:ILE:HD11	8:GI:378:LEU:HD21	1.87	0.55
9:HH:141:GLY:O	9:HH:184:ASN:ND2	2.40	0.55
9:HJ:102:ALA:HB1	9:HJ:401:GLU:HG2	1.89	0.55
8:IC:11:GLN:N	67:IC:501:GTP:O2B	2.37	0.55
9:IJ:207:LEU:HB3	9:IJ:225:LEU:HD22	1.88	0.55
9:JF:344:TRP:HB2	8:JG:401:LYS:HE3	1.88	0.55
9:JL:289:LEU:HD11	9:JL:363:MET:HG3	1.87	0.55
9:KD:139:LEU:HA	9:KD:145:SER:HB2	1.87	0.55
8:KM:392:ASP:O	8:KM:422:ARG:NH2	2.39	0.55
9:LJ:354:CYS:SG	9:LJ:355:ASP:N	2.79	0.55
9:MB:2:ARG:NH1	8:MC:98:ASP:OD1	2.39	0.55
9:MJ:83:GLN:N	9:MJ:83:GLN:OE1	2.39	0.55
8:MK:98:ASP:O	8:MK:105:ARG:NH2	2.38	0.55
9:OD:215:LEU:HD11	9:OD:273:LEU:HD22	1.89	0.55
9:OJ:323:MET:HG3	8:OK:224:TYR:CD1	2.41	0.55
8:PA:245:ASP:OD1	8:PA:245:ASP:N	2.40	0.55
9:QL:8:GLN:NE2	9:QL:136:THR:OG1	2.36	0.55
8:QM:322:ASP:OD2	8:QM:373:ARG:NH1	2.39	0.55
8:SC:274:PRO:HG3	8:SC:374:ALA:HA	1.89	0.55
9:UH:251:ARG:HH21	8:UI:407:TRP:HZ3	1.54	0.55
9:UN:323:MET:SD	9:UN:323:MET:N	2.78	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VE:114:ILE:HG23	8:VE:149:PHE:HE1	1.72	0.55
9:VJ:270:PHE:O	9:VJ:298:ASN:ND2	2.38	0.55
8:VK:2:ARG:HB3	8:VK:242:LEU:HD22	1.87	0.55
60:g:441:GLU:OE2	60:g:441:GLU:N	2.40	0.55
58:p:71:ILE:CD1	66:v:382:TRP:HB2	2.36	0.55
4:y:1444:GLU:HG2	4:y:1447:THR:H	1.70	0.55
8:AA:96:LYS:HZ1	8:AA:114:ILE:HD11	1.71	0.55
8:AE:413:MET:HE3	8:AE:417:GLU:HB2	1.89	0.55
12:AV:37:MET:HE2	12:AV:47:LEU:HD12	1.87	0.55
13:Aa:481:LYS:NZ	13:Aa:484:PHE:O	2.33	0.55
19:BO:89:PRO:O	19:BO:89:PRO:HD2	2.05	0.55
21:Bi:362:ASN:HA	9:LN:362:LYS:HB2	1.88	0.55
18:By:234:GLU:OE2	9:WB:276:ARG:NH1	2.40	0.55
28:C8:291:ASP:HB3	28:F2:67:PRO:HB3	1.88	0.55
8:CE:79:ARG:HH22	8:CE:94:THR:HG22	1.72	0.55
8:CG:81:GLY:HA3	38:Dg:21:TYR:HE2	1.70	0.55
8:CI:55:GLU:N	8:CI:55:GLU:OE2	2.40	0.55
9:CL:217:LEU:HD21	9:CL:276:ARG:HH21	1.71	0.55
9:CL:245:GLN:HA	8:CM:15:GLN:HE22	1.71	0.55
2:CU:66:ILE:HA	2:CU:69:MET:HG2	1.88	0.55
8:DA:244:PHE:HD1	8:DA:356:ASN:HD21	1.55	0.55
8:DC:12:ALA:HB3	8:DC:140:SER:HB2	1.88	0.55
8:DC:203:MET:HE1	8:DC:384:ILE:HD11	1.88	0.55
9:DJ:11:GLN:HB2	9:DJ:72:THR:HG21	1.89	0.55
9:DL:318:ARG:HD3	9:DL:358:PRO:HD3	1.89	0.55
29:DV:461:LYS:HA	29:DV:464:THR:HG22	1.89	0.55
29:EA:472:CYS:HA	29:EA:475:MET:HE2	1.88	0.55
8:EK:326:LYS:HD3	9:EL:220:PRO:HD2	1.87	0.55
8:EM:279:GLU:OE1	8:EM:279:GLU:N	2.34	0.55
9:EN:74:ASP:O	9:EN:78:SER:OG	2.23	0.55
29:EO:316:ASN:OD1	29:EO:319:ARG:NH2	2.40	0.55
42:F:443:MET:N	42:F:443:MET:SD	2.80	0.55
9:FH:314:ALA:HB3	9:FH:368:ILE:HB	1.89	0.55
8:FI:76:ASP:OD1	8:FI:79:ARG:NH1	2.40	0.55
9:HD:43:GLN:HA	9:HD:242:PHE:HE1	1.69	0.55
9:JB:67:ASP:OD2	9:JB:68:LEU:N	2.40	0.55
8:JG:139:HIS:ND1	8:JG:146:GLY:O	2.40	0.55
9:JL:182:PRO:HA	9:JL:381:ILE:HD11	1.89	0.55
9:KB:274:THR:HG21	9:KB:282:ARG:HD3	1.88	0.55
9:LF:40:SER:OG	9:LF:41:ASP:N	2.40	0.55
8:LI:3:GLU:HA	8:LI:51:THR:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MK:196:GLU:N	8:MK:196:GLU:OE1	2.39	0.55
8:NE:435:VAL:HA	9:NF:391:ARG:HH22	1.72	0.55
9:NH:191:GLN:N	9:NH:191:GLN:OE1	2.39	0.55
9:OJ:258:VAL:HG23	8:OK:407:TRP:HE1	1.72	0.55
9:PF:323:MET:SD	9:PF:323:MET:N	2.79	0.55
9:PH:61:PRO:O	9:PH:86:ARG:NH2	2.40	0.55
9:PH:83:GLN:O	9:QH:281:TYR:OH	2.23	0.55
9:PL:68:LEU:HD12	9:PL:97:ALA:HB2	1.88	0.55
8:QE:239:THR:HG23	8:QE:243:ARG:HH12	1.71	0.55
8:RA:188:ILE:HG13	8:RA:395:LEU:HD22	1.89	0.55
8:SC:101:ASN:ND2	67:SC:501:GTP:O2G	2.39	0.55
8:SE:5:ILE:HD12	8:SE:135:PHE:HE2	1.72	0.55
9:UN:309:ARG:HH12	9:UN:427:ASP:HA	1.71	0.55
8:VI:206:ASN:ND2	67:VI:502:GTP:O2'	2.40	0.55
8:VK:107:HIS:CD2	8:VK:151:SER:HG	2.24	0.55
8:VK:238:ILE:HD11	8:VK:378:LEU:HD21	1.87	0.55
9:VL:234:SER:OG	9:VL:241:ARG:NH2	2.40	0.55
67:VL:502:GTP:O1A	8:VM:11:GLN:NE2	2.39	0.55
9:VN:161:ASP:OD2	9:VN:162:ARG:NH1	2.39	0.55
9:WD:237:THR:HB	9:WD:240:LEU:HD12	1.89	0.55
8:WG:289:ALA:O	8:WG:293:ASN:ND2	2.39	0.55
8:WM:258:ASN:OD1	9:WN:179:VAL:HG22	2.07	0.55
63:k:72:LEU:HD13	63:k:80:LEU:HD23	1.89	0.55
7:A6:232:CYS:SG	7:A6:233:ALA:N	2.79	0.55
9:AB:40:SER:HB3	9:AB:43:GLN:HG3	1.87	0.55
8:AC:208:ALA:HB2	8:AC:304:LYS:HD3	1.88	0.55
9:AF:216:LYS:O	9:AF:276:ARG:NH2	2.40	0.55
13:Ab:462:THR:OG1	13:Ab:463:GLY:N	2.40	0.55
13:Ac:353:LYS:HD3	48:J:75:VAL:HG21	1.87	0.55
15:Ap:150:ILE:HD11	14:BY:258:PRO:HB2	1.89	0.55
15:Aq:162:LYS:NZ	38:Df:74:PRO:O	2.34	0.55
15:Aq:166:LEU:HD23	38:Df:64:LEU:HD13	1.89	0.55
15:Aq:167:ARG:O	15:Aq:172:ASN:ND2	2.40	0.55
7:Ay:89:ILE:O	9:GH:306:ARG:NH2	2.39	0.55
14:B7:34:THR:HA	8:EK:219:ILE:HG22	1.89	0.55
8:BE:319:TYR:HB3	8:BE:323:VAL:HG21	1.89	0.55
9:BL:314:ALA:HB3	9:BL:368:ILE:HB	1.88	0.55
20:BS:328:TYR:HB3	47:X:177:TYR:HE1	1.71	0.55
21:BV:135:ILE:HD11	9:LJ:19:LYS:NZ	2.22	0.55
28:C2:81:LEU:HD13	28:C2:87:ARG:HH11	1.72	0.55
9:CD:47:ILE:N	48:J:111:TYR:OH	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:3:ASN:HA	2:CX:6:LYS:NZ	2.21	0.55
32:Cm:327:GLU:OE2	32:Co:217:TRP:NE1	2.32	0.55
8:DA:320:ARG:HH21	8:DA:360:PRO:HA	1.71	0.55
9:DB:136:THR:HG23	9:DB:167:PHE:HB2	1.88	0.55
43:E2:56:ARG:NH2	28:F2:238:ASP:OD2	2.39	0.55
8:EE:79:ARG:HH21	8:EE:92:LEU:HB2	1.72	0.55
29:EP:327:LEU:HG	29:EP:331:LEU:HD13	1.87	0.55
42:F:668:ASN:HD21	42:F:716:ILE:HA	1.71	0.55
28:F3:202:ARG:NH1	28:F3:469:ASP:OD1	2.39	0.55
9:FD:215:LEU:HB3	9:FD:217:LEU:HD13	1.89	0.55
8:FI:234:ILE:HA	8:FI:272:TYR:CE2	2.41	0.55
9:GJ:323:MET:SD	9:GJ:323:MET:N	2.80	0.55
8:HC:274:PRO:HG3	8:HC:374:ALA:HA	1.89	0.55
9:HH:253:LEU:O	9:HH:257:MET:HB2	2.06	0.55
9:HN:252:LYS:HB2	8:HO:100:ALA:HA	1.89	0.55
8:IG:345:ASP:OD1	8:IG:345:ASP:N	2.38	0.55
9:IH:262:ARG:NH2	9:IH:417:ASP:OD1	2.35	0.55
9:JB:245:GLN:O	8:JC:11:GLN:NE2	2.35	0.55
8:JE:207:GLU:OE1	8:JE:304:LYS:NZ	2.40	0.55
8:JI:27:GLU:OE2	8:JI:243:ARG:NH1	2.35	0.55
9:KB:192:LEU:HD21	9:KB:199:THR:HG21	1.88	0.55
9:LD:68:LEU:HD23	9:LD:112:LEU:HD22	1.87	0.55
8:NC:271:THR:HB	8:NC:377:MET:HB3	1.88	0.55
8:NE:140:SER:OG	67:NE:501:GTP:O2A	2.24	0.55
9:OB:258:VAL:HG23	8:OC:407:TRP:HE1	1.71	0.55
8:PI:119:LEU:HD12	8:PI:123:ARG:HH12	1.72	0.55
9:PL:248:ALA:HA	9:PL:252:LYS:HD3	1.89	0.55
8:QC:54:SER:OG	8:RC:285:GLN:NE2	2.39	0.55
8:QC:291:ILE:HG12	8:QC:375:VAL:HG12	1.88	0.55
9:QF:246:LEU:HD11	67:QG:501:GTP:H5"	1.89	0.55
8:QI:53:PHE:O	8:QI:64:ARG:NH1	2.40	0.55
8:QK:56:THR:HA	8:RK:285:GLN:CG	2.36	0.55
8:RG:67:PHE:HB2	8:RG:92:LEU:HD23	1.88	0.55
8:SK:269:LEU:HD21	8:SK:301:GLN:HB3	1.88	0.55
8:TE:274:PRO:HG3	8:TE:374:ALA:HA	1.89	0.55
9:UD:321:MET:SD	9:UD:321:MET:N	2.80	0.55
9:UF:125:GLU:OE1	9:UF:159:TYR:OH	2.24	0.55
9:VD:11:GLN:NE2	69:VD:501:GDP:O1A	2.39	0.55
9:VJ:219:THR:O	9:VJ:219:THR:OG1	2.25	0.55
8:VK:224:TYR:HA	8:VK:227:LEU:HB2	1.89	0.55
9:VL:131:GLN:HE22	9:VL:249:ASP:HB2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VL:375:GLN:HB2	9:VL:419:VAL:HG23	1.88	0.55
55:W:176:ASN:O	55:W:180:GLU:HG2	2.07	0.55
8:WK:96:LYS:NZ	59:c:84:MET:HE1	2.21	0.55
9:WL:172:SER:OG	9:WL:175:VAL:O	2.24	0.55
56:XH:99:VAL:HG23	56:XH:101:ARG:HH12	1.71	0.55
47:Y:228:ASP:OD2	47:Y:233:LYS:NZ	2.40	0.55
2:0G:130:GLU:HA	2:0G:134:HIS:HB2	1.89	0.55
7:A2:35:THR:HG23	7:A2:36:THR:H	1.71	0.55
7:A3:33:PRO:O	8:QM:215:ARG:NH1	2.40	0.55
8:AE:259:LEU:HD11	8:AE:316:CYS:HB2	1.89	0.55
9:AH:328:GLU:O	9:AH:332:ASN:HB2	2.07	0.55
13:Ac:419:THR:OG1	13:Ac:421:ARG:NH1	2.40	0.55
13:Ac:602:ARG:HG2	13:Ac:604:VAL:HG22	1.89	0.55
7:Ay:110:LYS:NZ	8:FG:112:LYS:O	2.38	0.55
8:BE:239:THR:O	8:BE:243:ARG:NH1	2.40	0.55
8:BK:98:ASP:O	8:BK:105:ARG:NH1	2.39	0.55
21:BV:304:GLN:NE2	35:Da:108:TYR:OH	2.36	0.55
26:Bq:107:PRO:HG2	9:LN:70:PRO:HB2	1.88	0.55
18:By:138:ASP:OD1	18:By:141:THR:OG1	2.23	0.55
28:C5:202:ARG:NH1	28:C5:469:ASP:OD1	2.40	0.55
28:C9:278:SER:OG	28:C9:279:ASP:N	2.40	0.55
9:CB:91:VAL:HG21	9:CB:116:VAL:HG12	1.88	0.55
2:CZ:107:GLN:N	2:CZ:107:GLN:OE1	2.40	0.55
2:Ck:142:ILE:H	2:Ck:142:ILE:HD12	1.72	0.55
8:DG:326:LYS:HG3	9:DH:212:PHE:HZ	1.71	0.55
9:DJ:91:VAL:HG21	9:DJ:116:VAL:HG12	1.89	0.55
9:DL:99:ASN:O	9:DL:184:ASN:ND2	2.40	0.55
9:DL:193:VAL:HG11	9:DL:418:LEU:HD11	1.89	0.55
9:DN:62:ARG:NH1	9:DN:127:CYS:SG	2.80	0.55
29:DW:145:LEU:HD12	29:DW:148:ARG:HH21	1.72	0.55
44:ES:232:ASN:N	44:ES:232:ASN:OD1	2.37	0.55
44:EX:88:THR:HB	44:EY:346:LYS:NZ	2.22	0.55
9:FD:68:LEU:HD21	9:FD:147:MET:HE2	1.88	0.55
9:FF:226:ASN:OD1	69:FF:501:GDP:N1	2.33	0.55
8:FK:414:GLU:HG2	8:FK:416:GLY:H	1.72	0.55
9:GF:235:GLY:HA3	9:GF:366:THR:HG21	1.89	0.55
8:IE:439:SER:HG	9:IF:390:ARG:HH12	1.54	0.55
9:IH:170:VAL:HG11	9:IH:377:LEU:HD11	1.89	0.55
8:IO:169:PHE:HZ	8:IO:238:ILE:HG21	1.72	0.55
9:JF:253:LEU:O	9:JF:257:MET:HB2	2.07	0.55
9:JN:204:ASN:ND2	69:JN:501:GDP:O2'	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KB:73:MET:HE1	9:KB:92:PHE:HB3	1.88	0.55
9:KD:281:TYR:O	9:LD:86:ARG:NH1	2.39	0.55
8:LK:285:GLN:OE1	8:MK:57:GLY:N	2.38	0.55
9:LL:350:LYS:NZ	9:LL:351:THR:O	2.40	0.55
9:N0:406:MET:SD	9:N0:406:MET:N	2.80	0.55
9:NJ:190:HIS:ND1	9:NJ:191:GLN:OE1	2.31	0.55
51:O:108:GLN:HG3	51:O:109:VAL:HG13	1.89	0.55
8:OA:8:HIS:HE1	8:OA:21:TRP:HE1	1.55	0.55
8:OG:254:GLU:O	8:OG:258:ASN:ND2	2.38	0.55
9:OH:100:ASN:HB3	9:OH:103:LYS:HG3	1.87	0.55
9:OJ:54:ALA:HA	9:PJ:283:ALA:HB2	1.89	0.55
9:OJ:204:ASN:OD1	69:OJ:501:GDP:N2	2.40	0.55
9:PD:199:THR:OG1	9:PD:264:HIS:NE2	2.35	0.55
8:PM:115:VAL:HA	8:PM:118:VAL:HG22	1.88	0.55
9:QB:63:ALA:O	9:QB:89:ASN:ND2	2.38	0.55
9:QJ:207:LEU:HB3	9:QJ:225:LEU:HD22	1.89	0.55
9:QJ:216:LYS:HB2	9:QJ:275:SER:HB2	1.89	0.55
9:QJ:306:ARG:HA	9:QJ:340:TYR:HE2	1.71	0.55
9:RD:40:SER:OG	9:RD:41:ASP:N	2.38	0.55
8:RE:156:ARG:O	8:RE:160:ASP:HB2	2.07	0.55
9:RL:272:PRO:HG3	9:RL:364:SER:HA	1.89	0.55
9:SB:67:ASP:OD1	9:SB:69:GLU:N	2.30	0.55
8:SE:93:ILE:HD12	8:SE:117:LEU:HD23	1.88	0.55
8:SK:313:MET:SD	8:SK:380:ASN:HB3	2.46	0.55
9:SL:403:MET:HB2	9:SL:407:GLU:HG3	1.87	0.55
8:TC:259:LEU:HD21	8:TC:378:LEU:HB3	1.88	0.55
9:TD:331:LEU:HD11	8:TE:176:GLN:HB3	1.88	0.55
8:TE:402:ARG:NH1	8:TE:415:GLU:OE1	2.40	0.55
9:TF:3:GLU:HG2	9:TF:49:VAL:HA	1.88	0.55
9:TF:401:GLU:N	9:TF:401:GLU:OE2	2.40	0.55
8:TI:311:LYS:H	8:TI:382:THR:HB	1.71	0.55
9:UB:181:GLU:HG2	9:UB:182:PRO:HD3	1.89	0.55
8:UK:319:TYR:HB3	8:UK:323:VAL:HG21	1.88	0.55
9:UL:248:ALA:HA	9:UL:252:LYS:HD2	1.88	0.55
8:VG:292:THR:HG1	8:VG:319:TYR:HH	1.52	0.55
9:VJ:248:ALA:HA	9:VJ:252:LYS:HG3	1.89	0.55
8:WE:268:PRO:HB3	8:WE:380:ASN:HB3	1.89	0.55
8:WG:271:THR:HG21	8:WG:295:CYS:HA	1.89	0.55
59:d:397:ASP:OD2	59:d:401:ARG:NH2	2.39	0.55
60:f:126:ASP:HB3	60:f:145:ILE:HD11	1.89	0.55
60:f:167:VAL:HG12	60:f:178:VAL:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:m:52:ASN:ND2	63:m:58:THR:OG1	2.39	0.55
7:A7:68:PRO:O	8:SI:308:ARG:NH1	2.40	0.55
8:AA:84:ARG:HB2	14:Be:219:ILE:HD11	1.89	0.55
9:AB:324:LYS:NZ	9:AB:328:GLU:OE1	2.40	0.55
9:AJ:207:LEU:HB3	9:AJ:225:LEU:HD22	1.89	0.55
10:AP:78:ARG:HB3	8:LG:163:LYS:HD3	1.89	0.55
14:Ao:92:LEU:HD21	28:C5:214:GLU:HG3	1.89	0.55
18:B6:154:TYR:HE2	8:KO:433:GLU:HB2	1.72	0.55
8:BG:239:THR:OG1	8:BG:243:ARG:NH1	2.39	0.55
14:BZ:239:ASP:N	14:BZ:239:ASP:OD1	2.39	0.55
18:Bz:157:THR:OG1	8:KG:423:GLU:OE1	2.22	0.55
28:C2:377:MET:HE1	43:E1:76:TRP:CD1	2.42	0.55
9:CH:18:ALA:HB2	9:CH:76:VAL:HG23	1.89	0.55
8:CI:79:ARG:HB2	48:K:105:ILE:HD11	1.87	0.55
14:CO:26:GLN:HB2	14:CO:42:LEU:HD21	1.88	0.55
2:CT:101:CYS:SG	2:CT:148:LEU:HD11	2.47	0.55
2:Cc:114:LEU:HD13	2:Cc:144:ILE:HD12	1.88	0.55
2:Cj:126:LEU:HD12	2:Cj:130:GLU:HB3	1.88	0.55
32:Cn:66:ARG:NH2	32:Cp:329:CYS:SG	2.80	0.55
33:Cv:120:ARG:NH1	33:Cv:387:ASP:OD1	2.40	0.55
9:DB:404:ASP:OD1	9:DB:404:ASP:N	2.40	0.55
8:DI:259:LEU:O	8:DI:380:ASN:ND2	2.37	0.55
8:DK:4:CYS:HB2	8:DK:52:PHE:CE2	2.42	0.55
8:DK:14:VAL:HG21	8:DK:75:VAL:HG22	1.88	0.55
29:DW:352:GLU:O	29:DW:356:VAL:HG22	2.06	0.55
9:EH:54:ALA:HB3	9:EH:58:LYS:HB3	1.89	0.55
9:EJ:328:GLU:OE2	9:EJ:329:GLN:NE2	2.39	0.55
44:EZ:403:ARG:HD3	28:F4:482:SER:HB2	1.89	0.55
8:FE:325:PRO:HG3	9:FF:222:TYR:CD2	2.42	0.55
9:GB:314:ALA:HB3	9:GB:368:ILE:HB	1.89	0.55
9:GD:83:GLN:O	9:HD:281:TYR:OH	2.18	0.55
9:HF:1:MET:HE2	8:HG:72:PRO:HG3	1.88	0.55
9:JJ:404:ASP:N	9:JJ:404:ASP:OD1	2.39	0.55
9:KB:66:VAL:HG21	9:KB:147:MET:HE1	1.89	0.55
8:KE:71:GLU:HB2	8:KE:98:ASP:HB3	1.89	0.55
9:LJ:176:SER:OG	9:LJ:181:GLU:OE2	2.24	0.55
9:LJ:406:MET:SD	9:LJ:406:MET:N	2.79	0.55
9:MJ:10:GLY:O	9:MJ:14:ASN:ND2	2.40	0.55
9:N0:10:GLY:O	9:N0:14:ASN:ND2	2.33	0.55
9:N0:46:ARG:HH12	8:NA:72:PRO:HG2	1.72	0.55
8:NA:140:SER:OG	67:NA:502:GTP:O2A	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NH:293:MET:HB3	9:NH:294:PHE:HD1	1.72	0.55
51:O:143:SER:O	51:O:145:PHE:N	2.35	0.55
9:O0:376:GLU:OE1	9:O0:379:LYS:NZ	2.40	0.55
8:OC:287:SER:N	8:OC:290:GLU:OE2	2.39	0.55
8:PE:88:HIS:HB3	8:PE:91:GLN:HB2	1.88	0.55
8:PE:136:LEU:HD12	8:PE:169:PHE:CZ	2.41	0.55
9:PH:267:MET:HG3	9:PH:301:ALA:HB3	1.89	0.55
8:PI:75:VAL:HB	8:PI:79:ARG:HH21	1.72	0.55
8:PI:231:ILE:O	8:PI:235:VAL:HG12	2.07	0.55
9:PJ:114:ASP:OD2	9:PJ:154:LYS:NZ	2.40	0.55
8:PM:166:LYS:N	8:PM:199:ASP:OD2	2.38	0.55
8:QE:168:GLU:HB2	8:QE:201:ALA:HA	1.87	0.55
8:QG:437:VAL:O	9:QH:391:ARG:NH1	2.40	0.55
9:QH:309:ARG:NH2	9:QH:339:SER:O	2.39	0.55
9:QH:347:ASN:ND2	8:QI:180:ALA:O	2.40	0.55
8:QI:54:SER:OG	8:QI:55:GLU:N	2.40	0.55
9:QJ:204:ASN:OD1	69:QJ:501:GDP:N2	2.35	0.55
9:QL:8:GLN:NE2	9:QL:136:THR:O	2.40	0.55
8:RA:264:ARG:NH2	8:RA:431:ASP:OD2	2.40	0.55
8:RC:438:ASP:OD1	8:RC:438:ASP:N	2.38	0.55
9:RD:68:LEU:HD23	9:RD:143:THR:HG23	1.89	0.55
8:RI:79:ARG:HH22	8:RI:92:LEU:HB3	1.71	0.55
8:RI:293:ASN:OD1	8:RI:293:ASN:N	2.38	0.55
9:SB:346:PRO:HD3	8:SC:397:LEU:HD11	1.88	0.55
8:SI:71:GLU:OE2	8:SI:73:THR:OG1	2.20	0.55
9:TF:143:THR:N	69:TF:501:GDP:O1B	2.39	0.55
8:TK:172:TYR:N	8:TK:204:VAL:O	2.39	0.55
8:TM:172:TYR:OH	8:TM:388:TRP:NE1	2.37	0.55
8:UE:174:ALA:HB3	8:UE:177:VAL:HB	1.88	0.55
9:UF:48:ASN:O	9:UF:62:ARG:NH2	2.40	0.55
8:UI:66:VAL:HG21	8:UI:122:ILE:HG22	1.88	0.55
9:VB:67:ASP:OD2	9:VB:72:THR:OG1	2.23	0.55
9:VH:113:VAL:HG23	9:VH:151:LEU:HD22	1.89	0.55
8:VK:186:ASN:OD1	8:VK:408:TYR:OH	2.25	0.55
56:XH:29:VAL:HG11	57:YH:206:ASN:HD21	1.72	0.55
56:XM:57:THR:HG23	56:XM:158:ALA:HB2	1.88	0.55
2:0W:56:HIS:HB2	2:0Y:10:ARG:HH22	1.71	0.55
9:AL:140:GLY:O	9:AL:184:ASN:ND2	2.40	0.55
13:Ad:480:PHE:CE1	9:EB:360:GLY:HA3	2.42	0.55
17:B2:189:CYS:HB3	35:Da:150:ALA:HB3	1.88	0.55
8:BA:251:ASP:H	8:BA:254:GLU:HG2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BB:289:LEU:HD13	9:BB:363:MET:HE3	1.89	0.55
9:BJ:314:ALA:HB3	9:BJ:368:ILE:HB	1.89	0.55
8:BM:71:GLU:HB2	8:BM:98:ASP:HB2	1.89	0.55
19:BR:87:PRO:O	19:BR:101:LYS:NZ	2.40	0.55
27:Br:96:GLU:O	27:Br:99:LYS:HG2	2.07	0.55
28:C3:189:GLU:OE2	28:C3:230:GLN:NE2	2.40	0.55
8:CA:79:ARG:NH2	48:M:107:GLY:H	2.03	0.55
9:CB:247:ASN:ND2	8:CC:73:THR:OG1	2.39	0.55
8:CG:50:ASN:O	8:CG:64:ARG:NH1	2.40	0.55
9:CH:207:LEU:HD23	9:CH:225:LEU:HB3	1.89	0.55
9:CH:217:LEU:HB3	9:CH:220:PRO:HD3	1.88	0.55
9:CH:282:ARG:NH2	9:CH:292:GLN:OE1	2.40	0.55
8:CM:234:ILE:HD11	8:CM:272:TYR:HB2	1.88	0.55
32:Cm:76:GLU:OE1	33:Cr:266:ARG:NH1	2.40	0.55
32:Co:139:GLU:HG3	32:Co:256:GLN:HG3	1.87	0.55
8:DA:392:ASP:OD1	8:DA:422:ARG:NH1	2.40	0.55
9:DB:188:SER:HA	9:DB:192:LEU:HD23	1.89	0.55
8:DE:241:SER:OG	8:DE:320:ARG:NH1	2.40	0.55
9:DF:3:GLU:HA	9:DF:49:VAL:HA	1.89	0.55
8:DK:68:VAL:HG12	8:DK:93:ILE:HB	1.89	0.55
9:DL:91:VAL:HG11	9:DL:116:VAL:HG22	1.88	0.55
9:DN:314:ALA:HB3	9:DN:368:ILE:HG13	1.89	0.55
9:ED:337:ASN:OD1	9:ED:337:ASN:N	2.39	0.55
9:EL:114:ASP:OD1	9:EL:114:ASP:N	2.34	0.55
44:EY:183:ILE:HD11	44:EY:293:LEU:HD11	1.89	0.55
9:GB:77:ARG:NH1	9:GB:82:GLY:O	2.40	0.55
9:GL:69:GLU:OE1	9:GL:96:GLY:HA2	2.07	0.55
8:HE:206:ASN:ND2	67:HE:501:GTP:O2'	2.40	0.55
9:HJ:329:GLN:HA	9:HJ:332:ASN:HB2	1.89	0.55
9:IH:412:GLU:OE2	9:IH:416:ASN:ND2	2.40	0.55
9:IJ:3:GLU:N	9:IJ:3:GLU:OE1	2.40	0.55
8:IO:200:CYS:HA	8:IO:266:HIS:HB2	1.89	0.55
9:JJ:207:LEU:HB3	9:JJ:225:LEU:HD22	1.88	0.55
8:KO:228:ASN:OD1	67:KO:501:GTP:N1	2.38	0.55
8:LC:348:PRO:HD2	9:LD:388:MET:HE3	1.89	0.55
8:LI:143:GLY:O	8:LI:147:SER:OG	2.24	0.55
9:MF:8:GLN:HE22	9:MF:17:GLY:HA3	1.72	0.55
8:NE:335:ILE:HD13	8:NE:338:LYS:HZ1	1.72	0.55
8:NK:205:ASP:OD1	8:NK:205:ASP:N	2.35	0.55
8:NK:238:ILE:HD11	8:NK:378:LEU:HD11	1.88	0.55
9:OD:207:LEU:HB3	9:OD:225:LEU:HG	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OI:133:GLN:OE1	8:OI:252:LEU:HD23	2.07	0.55
9:PB:2:ARG:NH2	8:PC:72:PRO:HD2	2.22	0.55
9:PD:113:VAL:HA	9:PD:116:VAL:HG22	1.89	0.55
8:QA:133:GLN:O	8:QA:165:SER:OG	2.21	0.55
9:QL:331:LEU:O	9:QL:335:ASN:HB2	2.06	0.55
9:RB:33:THR:O	9:RB:58:LYS:NZ	2.38	0.55
9:RB:219:THR:O	9:RB:219:THR:OG1	2.25	0.55
8:RC:55:GLU:O	8:SC:285:GLN:NE2	2.40	0.55
8:RC:435:VAL:HG12	9:RD:391:ARG:HH12	1.72	0.55
8:RM:388:TRP:HB3	8:RM:425:LEU:HD21	1.88	0.55
9:SD:26:ASP:O	9:SD:359:ARG:NH1	2.40	0.55
8:SI:395:LEU:HD23	8:SI:422:ARG:HE	1.72	0.55
9:TB:100:ASN:HB3	9:TB:103:LYS:HB3	1.89	0.55
8:TG:392:ASP:OD2	8:TG:422:ARG:NH2	2.40	0.55
9:TH:211:CYS:HA	9:TH:215:LEU:HB2	1.89	0.55
9:TJ:326:VAL:HG11	9:TJ:351:THR:HG21	1.87	0.55
9:TL:251:ARG:NH1	8:TM:105:ARG:HH12	2.05	0.55
8:UK:277:SER:OG	8:UK:278:ALA:N	2.38	0.55
9:VL:100:ASN:HB3	9:VL:103:LYS:NZ	2.21	0.55
8:WE:311:LYS:NZ	8:WE:436:GLY:O	2.39	0.55
8:WG:88:HIS:HB3	8:WG:91:GLN:HG3	1.88	0.55
8:WI:317:MET:HA	8:WI:317:MET:HE3	1.89	0.55
9:WL:117:LEU:HD11	9:WL:154:LYS:HG2	1.89	0.55
60:e:96:ILE:HB	60:e:110:LEU:HB2	1.88	0.55
60:f:556:ILE:HG12	60:f:563:PHE:HB2	1.88	0.55
62:j:84:LEU:HD12	62:j:235:PHE:HE2	1.72	0.55
2:0i:104:LEU:HB2	2:0i:145:ILE:HD11	1.88	0.54
7:A4:181:GLY:O	8:QK:123:ARG:NE	2.32	0.54
9:AJ:25:SER:HG	9:AJ:51:TYR:HH	1.55	0.54
8:AM:187:SER:HB3	8:AM:391:LEU:HD21	1.88	0.54
12:AW:369:GLN:OE1	12:AW:373:LYS:NZ	2.39	0.54
15:Ap:27:LYS:NZ	8:KK:95:GLY:O	2.40	0.54
7:Az:236:VAL:HG22	9:PL:291:GLN:HG2	1.89	0.54
8:BE:27:GLU:OE1	8:BE:243:ARG:NH2	2.41	0.54
20:BT:152:PRO:HD2	20:BT:155:HIS:HB2	1.88	0.54
14:Bb:192:HIS:O	14:Bb:194:GLN:NE2	2.40	0.54
27:Bs:244:TYR:HD2	27:Bs:245:ILE:HG23	1.72	0.54
8:CA:409:VAL:HA	8:CA:413:MET:HB2	1.87	0.54
8:CE:79:ARG:O	48:J:98:LYS:NZ	2.32	0.54
8:CG:271:THR:HB	8:CG:377:MET:HB3	1.88	0.54
9:CH:48:ASN:O	9:CH:62:ARG:NH1	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CK:188:ILE:HA	8:CK:191:THR:HG22	1.87	0.54
32:Cm:331:ASP:OD1	32:Cm:331:ASP:N	2.39	0.54
29:DV:319:ARG:HE	29:DV:323:GLU:HG3	1.71	0.54
43:E2:142:ARG:NH2	44:EV:210:THR:OG1	2.38	0.54
8:EG:228:ASN:OD1	67:EG:501:GTP:N1	2.40	0.54
8:GG:211:ASP:OD2	8:GG:215:ARG:NH2	2.40	0.54
9:HD:86:ARG:NH1	9:ID:281:TYR:O	2.40	0.54
8:HK:238:ILE:HD11	8:HK:378:LEU:HD21	1.89	0.54
9:HN:304:ASP:OD2	9:HN:307:HIS:ND1	2.41	0.54
8:IG:200:CYS:HA	8:IG:266:HIS:HB2	1.88	0.54
8:JE:27:GLU:OE2	8:JE:243:ARG:NH1	2.38	0.54
8:JK:250:VAL:HG13	8:JK:254:GLU:HG2	1.89	0.54
9:KD:117:LEU:HB3	9:KD:121:ARG:NH2	2.22	0.54
8:LM:178:SER:OG	8:LM:183:GLU:OE1	2.24	0.54
48:M:123:SER:OG	48:M:124:THR:N	2.38	0.54
8:ME:195:LEU:HD11	8:ME:428:LEU:HD12	1.89	0.54
8:MG:180:ALA:HB3	8:MG:183:GLU:HG3	1.89	0.54
9:MH:161:ASP:N	9:MH:161:ASP:OD1	2.39	0.54
9:MN:334:GLN:HE22	9:MN:348:ASN:H	1.53	0.54
9:N0:287:PRO:HA	9:N0:329:GLN:HE22	1.72	0.54
8:NA:306:ASP:OD2	8:NA:309:HIS:ND1	2.40	0.54
8:NC:91:GLN:OE1	8:NC:91:GLN:N	2.39	0.54
9:NH:323:MET:O	8:NI:210:TYR:OH	2.16	0.54
8:NK:210:TYR:HE1	8:NK:227:LEU:HD21	1.72	0.54
8:OA:139:HIS:ND1	8:OA:146:GLY:O	2.33	0.54
9:OB:427:ASP:OD1	9:OB:427:ASP:N	2.39	0.54
9:OD:258:VAL:HG23	8:OE:407:TRP:HE1	1.72	0.54
8:OI:65:ALA:O	8:OI:91:GLN:NE2	2.40	0.54
9:OL:215:LEU:HB3	9:OL:217:LEU:HD13	1.88	0.54
8:QE:239:THR:HA	8:QE:242:LEU:HD13	1.88	0.54
8:RM:204:VAL:HG13	8:RM:302:MET:HB2	1.88	0.54
8:SE:298:PRO:HG2	8:SE:308:ARG:HE	1.72	0.54
8:SI:224:TYR:HE1	67:SI:501:GTP:C6	2.25	0.54
8:SI:328:VAL:HG21	8:SI:353:VAL:HG11	1.89	0.54
8:SM:72:PRO:O	8:SM:76:ASP:HB2	2.06	0.54
8:TG:206:ASN:ND2	67:TG:501:GTP:O2'	2.40	0.54
9:TH:267:MET:HE2	9:TH:374:ILE:HD11	1.89	0.54
8:UE:90:GLU:OE1	8:UE:121:ARG:NH1	2.40	0.54
8:UK:352:LYS:HD2	9:UL:178:THR:HA	1.89	0.54
9:UL:8:GLN:HE21	9:UL:17:GLY:HA3	1.72	0.54
9:UL:309:ARG:H	9:UL:372:THR:HB	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VC:108:TYR:HA	8:VC:112:LYS:HD3	1.90	0.54
8:VK:138:PHE:HE2	8:VK:169:PHE:HD1	1.55	0.54
8:WG:262:TYR:OH	9:WH:391:ARG:O	2.23	0.54
8:WI:209:ILE:HD13	8:WI:231:ILE:HD11	1.89	0.54
9:WJ:237:THR:HG23	9:WJ:241:ARG:HH21	1.71	0.54
8:WK:22:GLU:OE1	8:WK:229:ARG:NH1	2.40	0.54
56:XL:16:SER:O	56:XL:36:ARG:NH1	2.40	0.54
57:YG:200:PHE:HD2	57:YG:221:ILE:HG21	1.72	0.54
57:YK:135:LEU:HD21	57:YK:175:LEU:HD12	1.89	0.54
60:f:55:ILE:HD11	60:f:302:ARG:HH22	1.71	0.54
60:f:579:GLU:HB2	60:f:581:GLU:HG2	1.88	0.54
63:k:164:THR:HG23	63:k:165:VAL:HG23	1.89	0.54
63:n:72:LEU:HD13	63:n:80:LEU:HD22	1.89	0.54
4:z:1394:SER:OG	4:z:1395:LEU:N	2.38	0.54
7:A1:122:HIS:NE2	9:PF:287:PRO:O	2.41	0.54
8:AC:335:ILE:HG23	8:AC:341:ILE:HD12	1.88	0.54
9:AJ:324:LYS:HD3	8:AK:222:PRO:HD2	1.88	0.54
8:AM:69:ASP:OD1	8:AM:71:GLU:N	2.29	0.54
10:AP:48:HIS:HE1	8:KG:430:LYS:HG3	1.72	0.54
11:AT:114:THR:HA	11:AT:117:GLN:HB2	1.90	0.54
14:Am:48:VAL:HG23	14:Am:50:LYS:HD3	1.89	0.54
15:Ar:9:LEU:HD13	32:Cm:18:ILE:HD11	1.89	0.54
8:BK:360:PRO:HG2	8:BK:371:VAL:HG23	1.89	0.54
14:Be:275:THR:OG1	14:Be:278:ARG:NH2	2.40	0.54
21:Bj:45:ASP:OD1	8:KI:282:TYR:OH	2.24	0.54
29:C1:191:LEU:HB2	29:C1:225:ILE:HG21	1.89	0.54
8:CC:88:HIS:HE2	8:DC:284:GLU:CD	2.15	0.54
9:CF:10:GLY:O	9:CF:14:ASN:ND2	2.40	0.54
9:DB:190:HIS:O	9:DB:414:ASN:ND2	2.41	0.54
8:DE:338:LYS:HG3	8:DE:340:THR:H	1.72	0.54
29:DU:132:GLN:O	29:DU:136:GLN:HG3	2.06	0.54
42:E:743:LYS:HG3	9:IB:320:ARG:NH2	2.22	0.54
9:EJ:325:GLU:OE2	8:EK:221:ARG:NH1	2.38	0.54
8:EM:11:GLN:NE2	8:EM:15:GLN:OE1	2.40	0.54
8:EM:27:GLU:HG2	8:EM:243:ARG:HH21	1.71	0.54
44:EY:439:THR:HG22	44:EY:441:LEU:H	1.71	0.54
8:FM:313:MET:HG3	8:FM:380:ASN:HB3	1.90	0.54
8:GE:345:ASP:OD1	8:GE:345:ASP:N	2.39	0.54
8:GI:402:ARG:NH2	8:GI:415:GLU:OE2	2.39	0.54
8:GK:188:ILE:HG13	8:GK:395:LEU:HD22	1.89	0.54
9:GL:256:ASN:HD22	9:GL:350:LYS:HD3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:143:GLY:N	67:HC:501:GTP:O1A	2.40	0.54
9:HH:354:CYS:SG	9:HH:355:ASP:N	2.79	0.54
9:HJ:204:ASN:OD1	69:HJ:501:GDP:N2	2.39	0.54
8:IG:377:MET:SD	8:IG:379:SER:OG	2.66	0.54
9:JJ:324:LYS:NZ	8:JK:220:GLU:OE2	2.40	0.54
8:KG:172:TYR:HE2	8:KG:387:ALA:HB1	1.72	0.54
8:KG:215:ARG:NH1	8:KG:299:ALA:O	2.40	0.54
9:KL:107:THR:OG1	9:KL:108:GLU:OE1	2.26	0.54
9:KL:325:GLU:OE2	8:KM:221:ARG:NE	2.37	0.54
8:LC:208:ALA:O	8:LC:212:ILE:HG13	2.06	0.54
8:LE:140:SER:OG	67:LE:501:GTP:O2A	2.25	0.54
8:LK:154:MET:HE1	8:LK:198:SER:HB2	1.89	0.54
9:LL:317:PHE:HB2	9:LL:353:VAL:HG22	1.89	0.54
8:MG:88:HIS:NE2	8:MG:90:GLU:OE1	2.30	0.54
9:OB:347:ASN:ND2	8:OC:180:ALA:O	2.38	0.54
8:OC:46:ASP:OD1	8:OC:46:ASP:N	2.40	0.54
8:OC:367:ASP:OD1	8:OC:367:ASP:N	2.38	0.54
8:OE:206:ASN:OD1	67:OE:501:GTP:N2	2.37	0.54
8:OE:234:ILE:HD11	8:OE:270:ALA:HB1	1.89	0.54
9:OJ:86:ARG:HH12	9:PJ:282:ARG:HH12	1.53	0.54
9:OJ:153:SER:HA	9:OJ:195:ASN:HD22	1.70	0.54
9:PD:125:GLU:OE2	9:PD:159:TYR:OH	2.25	0.54
8:PE:297:GLU:HG3	8:PE:299:ALA:H	1.72	0.54
9:PL:389:PHE:HZ	9:PL:405:GLU:HG2	1.72	0.54
8:PM:320:ARG:HG3	8:PM:374:ALA:HB3	1.89	0.54
9:QD:404:ASP:OD1	9:QD:404:ASP:N	2.38	0.54
9:QH:19:LYS:HD2	9:QH:226:ASN:HB3	1.89	0.54
9:QH:395:LEU:HD23	9:QH:395:LEU:H	1.72	0.54
8:QK:246:GLY:HA3	8:QK:356:ASN:HA	1.89	0.54
8:RG:27:GLU:OE2	8:RG:243:ARG:NH2	2.39	0.54
9:RJ:347:ASN:ND2	8:RK:176:GLN:O	2.40	0.54
9:SL:314:ALA:HB3	9:SL:368:ILE:HB	1.88	0.54
8:TC:254:GLU:N	8:TC:254:GLU:OE2	2.38	0.54
8:TI:317:MET:HB3	8:TI:319:TYR:HE1	1.73	0.54
9:UB:236:VAL:HG13	9:UB:237:THR:HG23	1.89	0.54
8:WM:169:PHE:CE2	8:WM:235:VAL:HG22	2.42	0.54
56:XI:72:LYS:NZ	57:YH:78:ARG:HG2	2.22	0.54
60:g:500:GLN:HG2	60:g:536:ASP:H	1.72	0.54
7:A7:203:ALA:HB3	9:SB:295:ASP:HB2	1.88	0.54
8:AA:186:ASN:OD1	8:AA:408:TYR:OH	2.24	0.54
13:Ab:291:ASN:ND2	9:BJ:90:PHE:O	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:314:LEU:HD21	38:Df:8:GLY:H	1.72	0.54
7:Aw:85:PRO:HG2	9:OB:329:GLN:HE22	1.72	0.54
16:Ax:122:ALA:O	9:FD:332:ASN:ND2	2.39	0.54
17:B4:197:LEU:N	43:E4:35:GLU:OE1	2.41	0.54
8:BA:150:ALA:O	8:BA:154:MET:HG2	2.07	0.54
8:BK:349:THR:CG2	9:BL:179:VAL:HA	2.37	0.54
29:C1:241:ILE:HD13	29:C1:244:ARG:HH12	1.72	0.54
28:C8:211:VAL:HG12	28:DO:94:TYR:HB2	1.90	0.54
9:CB:131:GLN:HE22	9:CB:250:LEU:H	1.55	0.54
8:CE:188:ILE:HA	8:CE:191:THR:HG22	1.88	0.54
8:DE:9:VAL:HG12	8:DE:146:GLY:HA2	1.88	0.54
9:DL:285:THR:HG22	48:L:117:VAL:HA	1.89	0.54
28:DO:101:ARG:NH1	28:DO:102:SER:OG	2.41	0.54
29:DX:245:ASP:OD2	29:DX:314:ARG:NH2	2.39	0.54
8:EI:105:ARG:HE	8:EI:110:ILE:HD13	1.72	0.54
8:FE:313:MET:HB2	8:FE:380:ASN:HB3	1.89	0.54
8:FG:33:ASP:O	8:FG:60:LYS:NZ	2.37	0.54
8:GG:230:LEU:HD21	8:GG:302:MET:HE1	1.90	0.54
46:H:589:ASP:OD1	46:H:592:ARG:NH2	2.35	0.54
8:HG:319:TYR:HD2	8:HG:323:VAL:HG11	1.72	0.54
8:HI:217:LEU:HB3	8:HI:219:ILE:HG22	1.89	0.54
9:HL:267:MET:HE1	9:HL:305:PRO:HG3	1.88	0.54
9:IF:218:THR:HG23	9:IF:219:THR:HG23	1.88	0.54
8:IK:75:VAL:HG12	8:IK:79:ARG:HD2	1.87	0.54
8:JI:15:GLN:O	8:JI:228:ASN:ND2	2.40	0.54
9:KB:25:SER:HB3	9:KB:30:ILE:HB	1.88	0.54
9:KD:237:THR:HG22	9:KD:250:LEU:HD21	1.90	0.54
8:LM:3:GLU:OE2	8:LM:130:THR:N	2.41	0.54
8:MC:395:LEU:HD22	8:MC:422:ARG:HD3	1.90	0.54
8:MM:70:LEU:HB3	8:MM:98:ASP:HA	1.88	0.54
8:PA:286:LEU:O	8:PA:373:ARG:NE	2.34	0.54
9:PD:285:THR:HB	9:PD:287:PRO:HD2	1.88	0.54
8:PI:163:LYS:NZ	8:PI:199:ASP:OD2	2.38	0.54
8:QA:224:TYR:HA	8:QA:227:LEU:HD12	1.88	0.54
9:QJ:134:GLN:HA	9:QJ:165:ASN:HB3	1.89	0.54
9:QL:16:ILE:HD11	9:QL:233:MET:HE1	1.89	0.54
8:RA:54:SER:OG	8:RA:55:GLU:N	2.37	0.54
9:RF:331:LEU:O	9:RF:335:ASN:ND2	2.40	0.54
8:SC:3:GLU:HG2	8:SC:64:ARG:HH22	1.72	0.54
9:SJ:33:THR:O	9:SJ:58:LYS:NZ	2.39	0.54
8:TI:392:ASP:OD1	8:TI:422:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UM:53:PHE:HB3	8:UM:61:HIS:HB3	1.89	0.54
9:VD:66:VAL:HG22	9:VD:91:VAL:HB	1.90	0.54
8:VE:386:GLU:OE2	8:VE:390:ARG:NH1	2.41	0.54
8:VM:27:GLU:OE2	8:VM:243:ARG:NE	2.41	0.54
47:X:352:ARG:NH2	47:X:364:LEU:HA	2.22	0.54
57:YG:44:VAL:HA	57:YG:47:MET:HB2	1.88	0.54
57:YI:125:PHE:HE2	57:YI:129:GLN:HG3	1.72	0.54
7:A8:182:PRO:HA	8:SI:123:ARG:NH1	2.20	0.54
9:AJ:68:LEU:HD12	9:AJ:97:ALA:HB2	1.90	0.54
11:AT:83:VAL:O	11:AT:87:MET:HG2	2.07	0.54
11:AT:137:LEU:HD22	27:Bs:327:GLU:CD	2.32	0.54
13:Aa:440:ILE:HG12	13:Aa:451:VAL:HG12	1.88	0.54
13:Ac:26:LYS:O	13:Ac:37:GLN:NE2	2.40	0.54
15:Ap:140:LEU:HG	32:Cm:148:THR:HG23	1.88	0.54
15:Ar:127:ASP:O	32:Cn:138:LYS:NZ	2.32	0.54
19:BO:249:ASN:HD21	9:MN:191:GLN:HG2	1.73	0.54
8:CA:238:ILE:HD11	8:CA:378:LEU:HD21	1.90	0.54
8:CE:11:GLN:HG2	8:CE:74:VAL:HG21	1.90	0.54
2:CV:41:ILE:HG22	2:CV:42:ARG:H	1.73	0.54
2:CV:45:SER:HA	2:CV:111:LEU:HD12	1.89	0.54
33:Cq:29:GLU:OE1	33:Cq:32:ARG:NH2	2.40	0.54
33:Cv:50:ASN:OD1	33:Cw:307:LYS:NZ	2.32	0.54
33:Cv:316:THR:HA	33:Cx:202:LYS:HE3	1.88	0.54
33:Cv:325:PRO:HD2	33:Cv:328:GLU:HB2	1.89	0.54
29:Cz:360:LEU:HD11	29:Cz:457:GLU:OE2	2.08	0.54
9:DF:87:PRO:HA	9:DF:90:PHE:HD1	1.73	0.54
9:DN:258:VAL:HG21	9:DN:263:LEU:HB3	1.89	0.54
38:Dg:119:ALA:HB1	38:Dg:126:ILE:HD11	1.90	0.54
8:EG:269:LEU:HD21	8:EG:384:ILE:HD13	1.90	0.54
29:EQ:366:LYS:NZ	44:EY:446:TYR:HB3	2.23	0.54
8:FK:298:PRO:HG2	8:FK:308:ARG:HE	1.71	0.54
8:GE:11:GLN:HG3	8:GE:74:VAL:HG21	1.88	0.54
9:GF:334:GLN:OE1	9:GF:348:ASN:ND2	2.36	0.54
9:HF:285:THR:HG22	9:HF:287:PRO:HD2	1.88	0.54
8:HG:395:LEU:HD22	8:HG:422:ARG:HG3	1.88	0.54
8:HO:224:TYR:HA	8:HO:227:LEU:HG	1.89	0.54
9:ID:63:ALA:O	9:ID:89:ASN:ND2	2.41	0.54
9:IJ:207:LEU:HD13	9:IJ:225:LEU:HB3	1.90	0.54
49:K1:17:ASN:O	49:K1:21:ARG:HD3	2.08	0.54
8:KG:139:HIS:ND1	8:KG:146:GLY:O	2.40	0.54
9:KH:281:TYR:O	9:LH:86:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KL:350:LYS:NZ	9:KL:351:THR:O	2.40	0.54
50:L2:72:ARG:NH2	9:VN:126:SER:O	2.40	0.54
9:LB:204:ASN:HA	9:LB:207:LEU:HG	1.89	0.54
9:LN:292:GLN:HG2	9:LN:298:ASN:HD21	1.72	0.54
9:MB:172:SER:OG	9:MB:205:GLU:OE1	2.25	0.54
9:MF:293:MET:HG2	9:MF:367:PHE:HB2	1.90	0.54
9:MH:170:VAL:HG21	9:MH:377:LEU:HD11	1.89	0.54
9:N0:314:ALA:HB3	9:N0:368:ILE:HB	1.88	0.54
8:OE:274:PRO:HG2	8:OE:374:ALA:HA	1.90	0.54
9:OJ:113:VAL:HA	9:OJ:116:VAL:HG12	1.90	0.54
8:OK:72:PRO:HB3	8:OK:94:THR:HG23	1.88	0.54
8:PA:167:LEU:HD13	8:PA:200:CYS:HB3	1.90	0.54
8:QA:70:LEU:HD13	8:QA:95:GLY:HA3	1.89	0.54
8:QE:188:ILE:HG21	8:QE:395:LEU:HD22	1.90	0.54
9:QL:101:TRP:HZ2	9:QL:191:GLN:HE22	1.55	0.54
8:RI:91:GLN:N	8:RI:121:ARG:HH21	2.05	0.54
8:UC:209:ILE:HG21	8:UC:227:LEU:HA	1.90	0.54
9:UF:379:LYS:HE2	9:UF:419:VAL:HG11	1.88	0.54
8:VE:362:VAL:HG21	8:VE:370:LYS:NZ	2.23	0.54
9:VF:313:VAL:HG13	9:VF:367:PHE:HE1	1.72	0.54
8:VI:382:THR:HG21	8:VI:436:GLY:HA3	1.88	0.54
9:WB:45:GLU:OE2	9:WB:46:ARG:NH2	2.40	0.54
9:WB:267:MET:HG3	9:WB:301:ALA:HB3	1.87	0.54
8:WC:108:TYR:HD2	8:WC:110:ILE:HG22	1.71	0.54
9:WJ:305:PRO:HD2	9:WJ:306:ARG:HH12	1.72	0.54
47:X:420:LEU:HD12	47:X:442:TYR:HD2	1.72	0.54
56:XL:78:MET:HG2	56:XL:165:VAL:HG22	1.89	0.54
60:e:66:HIS:NE2	60:e:84:SER:OG	2.34	0.54
60:e:356:LYS:HG3	60:e:357:LYS:HG3	1.89	0.54
65:s:75:ARG:HA	65:s:75:ARG:NE	2.23	0.54
7:A4:161:PHE:HA	9:QL:125:GLU:HG3	1.89	0.54
7:A8:127:ARG:NH2	9:TL:301:ALA:O	2.41	0.54
9:AF:252:LYS:NZ	67:AG:501:GTP:O3G	2.32	0.54
11:AU:307:GLN:NE2	11:AU:308:ASP:OD1	2.40	0.54
13:Ad:123:SER:HA	13:Ad:132:PHE:HA	1.88	0.54
15:Ap:27:LYS:HD2	9:KJ:1:MET:HE1	1.89	0.54
7:Ay:183:ALA:HB2	8:GC:340:THR:HG21	1.89	0.54
8:BC:15:GLN:NE2	67:BC:501:GTP:O6	2.37	0.54
19:BP:481:VAL:HG22	35:Ee:206:TYR:HB3	1.87	0.54
28:C3:111:ASN:OD1	28:C3:114:ARG:NH2	2.41	0.54
9:CJ:38:GLY:O	48:K:50:LYS:NZ	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Cm:162:ARG:NH1	47:I:197:GLN:O	2.39	0.54
9:DL:252:LYS:HG2	8:DM:101:ASN:HB2	1.89	0.54
9:DL:309:ARG:NH1	9:DL:339:SER:O	2.40	0.54
8:DM:12:ALA:O	8:DM:16:ILE:HG13	2.07	0.54
29:DV:205:ILE:HG21	29:DV:460:ILE:HG12	1.88	0.54
8:EM:254:GLU:OE2	9:EN:99:ASN:ND2	2.41	0.54
44:ES:175:GLU:HB3	44:ES:300:VAL:HG22	1.90	0.54
44:EW:131:LEU:HD23	44:EW:201:ILE:HG13	1.90	0.54
42:F:496:THR:OG1	8:IK:373:ARG:NH2	2.40	0.54
8:FI:27:GLU:OE1	8:FI:243:ARG:NH2	2.36	0.54
9:FJ:36:TYR:HB2	9:FJ:59:TYR:HE2	1.72	0.54
8:FK:288:VAL:HG22	8:FK:373:ARG:HD3	1.89	0.54
8:GC:262:TYR:OH	9:GD:391:ARG:O	2.25	0.54
9:GJ:140:GLY:O	9:GJ:184:ASN:ND2	2.37	0.54
8:GM:55:GLU:OE2	8:GM:61:HIS:ND1	2.40	0.54
8:HE:48:SER:OG	8:HE:243:ARG:O	2.26	0.54
8:HK:190:THR:O	8:HK:194:THR:OG1	2.19	0.54
9:IF:103:LYS:HG2	9:IF:401:GLU:HG2	1.89	0.54
8:IM:297:GLU:HB2	8:IM:300:ASN:HB2	1.90	0.54
9:JB:198:GLU:HG2	9:JB:266:PHE:HE2	1.71	0.54
9:JB:314:ALA:HB3	9:JB:368:ILE:HB	1.88	0.54
49:K1:88:GLU:OE1	49:K1:89:GLY:N	2.38	0.54
9:KB:11:GLN:HA	9:KB:72:THR:HG21	1.90	0.54
8:LC:166:LYS:NZ	8:LC:197:HIS:O	2.41	0.54
9:LF:51:TYR:O	9:LF:62:ARG:NH2	2.41	0.54
8:LM:3:GLU:HA	8:LM:51:THR:HA	1.89	0.54
9:LN:25:SER:HB3	9:LN:30:ILE:HB	1.90	0.54
9:LN:135:LEU:HD22	9:LN:152:ILE:HD11	1.89	0.54
8:ME:298:PRO:HG2	8:ME:308:ARG:HH11	1.72	0.54
8:NI:254:GLU:OE2	9:NJ:99:ASN:ND2	2.41	0.54
9:OH:189:VAL:HG11	9:OH:415:MET:HE2	1.88	0.54
8:PA:385:ALA:HA	8:PA:388:TRP:HD1	1.72	0.54
9:PD:97:ALA:HA	9:PD:103:LYS:HG2	1.89	0.54
9:PJ:58:LYS:HG2	9:PJ:60:VAL:HG13	1.89	0.54
8:QA:414:GLU:N	8:QA:414:GLU:OE2	2.40	0.54
9:QB:282:ARG:HH21	9:QB:288:GLU:HB2	1.72	0.54
8:QG:2:ARG:NH1	8:QG:251:ASP:OD1	2.40	0.54
8:QM:381:THR:HG22	8:QM:383:ALA:H	1.73	0.54
8:RE:51:THR:HG21	8:RE:243:ARG:HG2	1.90	0.54
8:RG:172:TYR:HH	8:RG:388:TRP:CD1	2.25	0.54
9:RH:344:TRP:CZ3	8:RI:401:LYS:HB3	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RJ:54:ALA:HA	9:SJ:283:ALA:HB2	1.89	0.54
9:RJ:69:GLU:HG2	9:RJ:71:GLY:H	1.72	0.54
9:RJ:200:TYR:HB3	9:RJ:268:PRO:HG3	1.90	0.54
8:RK:254:GLU:OE2	9:RL:99:ASN:ND2	2.40	0.54
9:SF:172:SER:OG	9:SF:175:VAL:HB	2.08	0.54
8:SG:109:THR:HG21	8:SG:411:GLU:HB2	1.89	0.54
9:SJ:117:LEU:HD11	9:SJ:154:LYS:HB3	1.90	0.54
9:TB:356:ILE:HD12	9:TB:357:PRO:HD2	1.90	0.54
8:UC:68:VAL:HG12	8:UC:93:ILE:HB	1.90	0.54
8:UI:277:SER:OG	8:UI:278:ALA:N	2.37	0.54
1:V:79:ARG:HH12	1:V:80:ARG:HB3	1.71	0.54
1:V:142:ARG:NH1	62:j:34:ASP:OD2	2.41	0.54
8:VC:356:ASN:OD1	8:VC:357:TYR:N	2.41	0.54
8:VG:350:GLY:H	9:VH:179:VAL:HG23	1.71	0.54
8:VI:381:THR:HG22	8:VI:383:ALA:H	1.70	0.54
9:VJ:6:HIS:CD2	9:VJ:21:TRP:HE1	2.24	0.54
9:WF:39:ASP:OD1	9:WF:39:ASP:N	2.41	0.54
8:WI:328:VAL:O	8:WI:332:ILE:HG13	2.07	0.54
56:XJ:93:VAL:HA	56:XJ:151:THR:HA	1.90	0.54
57:YL:52:VAL:C	57:YL:54:ARG:HH21	2.15	0.54
60:f:271:SER:OG	60:f:273:ASP:OD1	2.24	0.54
7:A7:162:SER:HB2	9:SD:337:ASN:ND2	2.21	0.54
7:A8:188:THR:HG23	8:SI:116:ASP:O	2.07	0.54
9:AD:86:ARG:HG3	9:BD:281:TYR:HB3	1.88	0.54
9:AF:68:LEU:HD12	9:AF:97:ALA:HB2	1.89	0.54
9:AH:95:SER:OG	9:AH:108:GLU:OE2	2.24	0.54
8:AI:79:ARG:HG2	14:BY:219:ILE:HD11	1.88	0.54
9:AJ:237:THR:HG22	9:AJ:250:LEU:HD11	1.90	0.54
9:AL:86:ARG:HA	9:BL:281:TYR:HD2	1.71	0.54
13:Ab:261:MET:HA	9:CJ:77:ARG:NH2	2.22	0.54
15:Ap:165:LEU:HD13	38:Dg:81:LEU:HD11	1.88	0.54
7:Ay:121:SER:O	9:GF:336:LYS:NZ	2.40	0.54
5:B:98:LEU:HD21	5:B:112:ARG:HB3	1.89	0.54
8:BA:88:HIS:HB3	8:BA:91:GLN:HE22	1.73	0.54
19:BO:23:GLU:N	19:BO:23:GLU:OE1	2.40	0.54
21:Bk:279:GLU:N	21:Bk:279:GLU:OE1	2.40	0.54
32:Co:266:ASN:HB3	33:Ct:73:ARG:HH22	1.72	0.54
33:Cq:326:ASN:ND2	44:ET:136:GLN:OE1	2.40	0.54
33:Ct:202:LYS:HB2	33:Ct:205:PRO:HB3	1.89	0.54
8:DE:402:ARG:HH22	8:DE:415:GLU:HG2	1.73	0.54
8:DG:71:GLU:HB3	8:DG:98:ASP:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DG:258:ASN:HD21	9:DH:178:THR:HG23	1.72	0.54
8:DI:12:ALA:O	8:DI:16:ILE:HG13	2.08	0.54
9:DN:58:LYS:NZ	9:DN:60:VAL:HB	2.22	0.54
29:DQ:371:ILE:HG22	29:DQ:447:LEU:HB3	1.89	0.54
35:Da:77:PHE:HA	35:Da:90:LYS:HB2	1.89	0.54
8:EC:206:ASN:ND2	67:EC:501:GTP:O2'	2.40	0.54
9:EH:8:GLN:HG3	9:EH:65:LEU:HG	1.89	0.54
8:EK:107:HIS:O	8:EK:112:LYS:NZ	2.41	0.54
44:EZ:75:GLU:OE1	44:EZ:78:ARG:NH1	2.40	0.54
8:FC:79:ARG:NH2	8:FC:92:LEU:O	2.41	0.54
9:FL:116:VAL:HG21	9:FL:151:LEU:HD11	1.90	0.54
8:GG:298:PRO:HG3	8:GG:308:ARG:HE	1.73	0.54
9:GJ:178:THR:HB	9:GJ:181:GLU:HG3	1.88	0.54
9:HH:293:MET:HE3	9:HH:367:PHE:HD1	1.72	0.54
9:HL:347:ASN:ND2	8:HM:178:SER:OG	2.41	0.54
8:IC:50:ASN:O	8:IC:64:ARG:NH1	2.40	0.54
9:IF:354:CYS:SG	9:IF:355:ASP:N	2.80	0.54
9:IN:207:LEU:HD23	9:IN:225:LEU:HG	1.89	0.54
8:JC:209:ILE:HA	8:JC:212:ILE:HG12	1.89	0.54
9:KN:228:LEU:HB3	9:KN:300:MET:HE2	1.89	0.54
9:LF:260:PHE:HB2	9:LF:263:LEU:HD13	1.89	0.54
8:MM:155:GLU:HG2	8:MM:197:HIS:NE2	2.23	0.54
8:NG:199:ASP:OD1	8:NG:199:ASP:N	2.40	0.54
8:NG:251:ASP:N	8:NG:254:GLU:OE2	2.37	0.54
9:O0:237:THR:HG22	9:O0:250:LEU:HD21	1.89	0.54
8:OG:101:ASN:HA	8:OG:143:GLY:HA2	1.90	0.54
9:OH:232:THR:HG21	9:OH:268:PRO:HB2	1.90	0.54
9:OJ:163:ILE:HD11	9:OJ:251:ARG:HG3	1.90	0.54
8:PG:65:ALA:O	8:PG:91:GLN:NE2	2.40	0.54
8:PG:326:LYS:HA	8:PG:329:ASN:HB2	1.89	0.54
8:PI:172:TYR:HB2	8:PI:203:MET:HE2	1.89	0.54
8:QE:79:ARG:O	8:QE:84:ARG:NE	2.34	0.54
9:QF:68:LEU:HG	9:QF:143:THR:HG23	1.90	0.54
9:QJ:237:THR:OG1	9:QJ:241:ARG:NH1	2.41	0.54
54:R:132:LEU:HB3	54:R:137:GLU:HB3	1.90	0.54
8:RI:205:ASP:HB3	8:RI:303:VAL:HA	1.90	0.54
8:RK:274:PRO:HG3	8:RK:374:ALA:HA	1.89	0.54
8:RK:348:PRO:HD2	9:RL:388:MET:HE2	1.90	0.54
8:SE:274:PRO:HG3	8:SE:374:ALA:HA	1.89	0.54
8:SG:188:ILE:HD11	8:SG:391:LEU:HD12	1.89	0.54
9:SJ:247:ASN:ND2	8:SK:11:GLN:OE1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TD:60:VAL:HG11	9:TD:86:ARG:NH1	2.22	0.54
9:UF:113:VAL:O	9:UF:117:LEU:HB2	2.06	0.54
9:UH:86:ARG:NH1	9:VH:281:TYR:O	2.41	0.54
9:VD:99:ASN:ND2	69:VD:501:GDP:O2A	2.40	0.54
9:VJ:307:HIS:O	9:VJ:426:GLN:NE2	2.41	0.54
9:VN:306:ARG:NH2	9:VN:340:TYR:OH	2.39	0.54
9:WL:152:ILE:HG12	9:WL:164:MET:HE2	1.89	0.54
57:YK:194:LEU:HD11	57:YK:229:LEU:HD21	1.90	0.54
60:g:209:ARG:NH2	60:g:231:ASP:OD2	2.37	0.54
2:0E:152:TRP:CD1	2:0E:156:SER:HG	2.26	0.54
2:0W:111:LEU:HA	2:0W:114:LEU:HD13	1.88	0.54
3:2:64:LEU:O	3:2:68:ARG:NH2	2.41	0.54
7:A1:77:LEU:O	7:A1:79:THR:N	2.39	0.54
8:AC:323:VAL:HG12	8:AC:355:ILE:HD13	1.89	0.54
9:AD:167:PHE:CE2	9:AD:233:MET:HG2	2.43	0.54
9:AF:314:ALA:HB3	9:AF:368:ILE:HB	1.89	0.54
9:AF:423:GLN:NE2	57:YJ:61:ALA:H	2.06	0.54
9:AH:248:ALA:HA	9:AH:252:LYS:HD3	1.89	0.54
10:AS:41:ILE:HD11	9:KD:392:LYS:HG2	1.89	0.54
14:Am:33:ASP:OD1	14:Am:38:THR:OG1	2.24	0.54
14:Ao:95:TYR:OH	28:C5:224:ASP:OD2	2.24	0.54
16:Ax:83:ARG:O	8:EG:96:LYS:NZ	2.41	0.54
17:B1:22:PRO:HB3	8:NI:364:PRO:HG2	1.88	0.54
17:B9:17:ASP:O	17:B9:20:ARG:NH2	2.38	0.54
8:BG:93:ILE:HD11	8:BG:121:ARG:HG3	1.90	0.54
9:BL:38:GLY:O	14:Bd:316:ARG:NH2	2.40	0.54
8:BM:89:PRO:HA	8:BM:92:LEU:HD12	1.89	0.54
21:BV:353:LYS:NZ	8:LC:220:GLU:O	2.41	0.54
8:CE:265:ILE:HG23	8:CE:432:TYR:HE1	1.73	0.54
2:Ci:157:GLU:OE1	2:Ci:157:GLU:N	2.39	0.54
2:Ck:21:GLN:NE2	9:SD:39:ASP:O	2.23	0.54
33:Ct:152:GLN:OE1	44:EU:429:LYS:NZ	2.38	0.54
33:Cy:323:TYR:OH	44:EY:208:LYS:NZ	2.40	0.54
8:DC:51:THR:HG21	8:DC:243:ARG:HG2	1.90	0.54
29:DS:353:GLU:OE1	29:DS:461:LYS:NZ	2.28	0.54
29:DW:220:ARG:O	29:DW:224:MET:HG2	2.08	0.54
40:Dm:76:PRO:O	9:GH:320:ARG:NH1	2.39	0.54
9:ED:313:VAL:HB	9:ED:349:VAL:HG12	1.90	0.54
8:EG:36:MET:HG3	8:EG:41:THR:HG22	1.89	0.54
29:EP:477:LYS:HE2	44:EW:112:GLY:O	2.07	0.54
9:FB:170:VAL:HG11	9:FB:377:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FC:142:GLY:O	8:FC:186:ASN:ND2	2.39	0.54
9:FD:284:LEU:N	9:FD:288:GLU:OE2	2.34	0.54
9:FN:17:GLY:HA2	9:FN:20:PHE:HB3	1.90	0.54
8:GC:290:GLU:N	8:GC:290:GLU:OE1	2.41	0.54
9:GD:393:ALA:O	9:GD:395:LEU:N	2.41	0.54
8:GG:382:THR:HA	8:GG:432:TYR:CE2	2.38	0.54
8:HC:241:SER:OG	8:HC:250:VAL:O	2.24	0.54
8:HM:128:LEU:HD21	8:IM:285:GLN:HG3	1.90	0.54
8:II:251:ASP:N	8:II:254:GLU:OE2	2.26	0.54
8:IK:14:VAL:HG21	8:IK:75:VAL:HG22	1.88	0.54
8:JK:265:ILE:HG21	8:JK:313:MET:HE1	1.89	0.54
9:KL:273:LEU:O	9:KL:292:GLN:NE2	2.41	0.54
9:KL:288:GLU:OE1	9:KL:288:GLU:N	2.40	0.54
9:N0:217:LEU:HD23	9:N0:220:PRO:HB3	1.89	0.54
8:NA:64:ARG:HH12	8:NA:129:CYS:HB2	1.71	0.54
8:NA:286:LEU:O	8:NA:373:ARG:NH1	2.41	0.54
9:NH:6:HIS:HD2	9:NH:134:GLN:HG2	1.73	0.54
9:NH:101:TRP:H	9:NH:398:TYR:HE1	1.53	0.54
8:OC:30:ILE:HG22	8:OC:36:MET:HG3	1.89	0.54
8:OI:392:ASP:OD1	8:OI:422:ARG:NH1	2.41	0.54
9:PB:186:THR:HA	9:PB:189:VAL:HG12	1.89	0.54
8:PG:286:LEU:O	8:PG:373:ARG:NH1	2.40	0.54
9:QF:51:TYR:HB3	9:QF:59:TYR:HB3	1.89	0.54
9:QF:117:LEU:HD13	9:QF:154:LYS:HG3	1.88	0.54
9:QF:415:MET:SD	9:QF:416:ASN:N	2.80	0.54
9:QH:232:THR:HG22	9:QH:270:PHE:HB2	1.89	0.54
9:QH:392:LYS:HD2	9:QH:395:LEU:HD21	1.90	0.54
8:QM:6:SER:HB3	8:QM:8:HIS:HE1	1.73	0.54
8:RK:98:ASP:OD1	8:RK:98:ASP:N	2.40	0.54
8:RM:30:ILE:HD11	8:RM:34:GLY:HA2	1.90	0.54
8:RM:71:GLU:HB2	8:RM:98:ASP:HB3	1.89	0.54
8:RM:297:GLU:O	8:RM:301:GLN:NE2	2.41	0.54
8:SK:317:MET:HA	8:SK:377:MET:HA	1.88	0.54
9:TL:31:ASP:OD1	9:TL:35:THR:N	2.41	0.54
9:VB:325:GLU:O	9:VB:329:GLN:HG3	2.08	0.54
9:VF:6:HIS:HA	9:VF:134:GLN:HG3	1.88	0.54
9:VN:99:ASN:ND2	69:VN:501:GDP:O2A	2.40	0.54
8:WG:395:LEU:HD22	8:WG:422:ARG:HD3	1.90	0.54
59:c:104:PRO:HD2	59:c:105:GLU:N	2.23	0.54
60:e:22:VAL:HG12	60:e:615:LEU:HD23	1.89	0.54
3:1:180:PRO:HA	3:1:183:LEU:HD12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A4:242:HIS:O	9:RH:213:ARG:NH2	2.41	0.54
9:AB:30:ILE:HG13	9:AB:51:TYR:HE2	1.73	0.54
8:AE:143:GLY:O	8:AE:147:SER:OG	2.23	0.54
9:AH:62:ARG:NH1	9:AH:127:CYS:SG	2.81	0.54
8:AK:168:GLU:N	8:AK:168:GLU:OE1	2.41	0.54
8:AK:294:ALA:O	8:AK:300:ASN:ND2	2.41	0.54
9:AL:10:GLY:O	9:AL:14:ASN:ND2	2.40	0.54
13:Ac:642:LYS:H	13:Ac:672:LYS:NZ	2.05	0.54
13:Ad:65:LEU:HG	13:Ad:160:THR:HG23	1.90	0.54
7:Ay:55:GLY:HA3	9:GJ:306:ARG:HH11	1.72	0.54
9:BD:331:LEU:HD11	8:BE:176:GLN:HB3	1.88	0.54
8:BG:98:ASP:O	8:BG:105:ARG:NH1	2.41	0.54
9:BH:86:ARG:HA	9:CH:281:TYR:HD2	1.73	0.54
9:BJ:68:LEU:HD12	9:BJ:97:ALA:HB2	1.90	0.54
9:BJ:385:PHE:O	9:BJ:389:PHE:HB2	2.07	0.54
8:BM:186:ASN:OD1	8:BM:408:TYR:OH	2.24	0.54
6:BN:203:ALA:HB2	8:IO:340:THR:HG21	1.89	0.54
19:BP:209:MET:HE3	19:BP:321:ILE:HG23	1.88	0.54
18:By:188:MET:HG3	18:By:190:ARG:HH12	1.72	0.54
5:C:123:GLU:OE2	5:C:139:GLN:HG2	2.08	0.54
8:CA:184:PRO:O	8:CA:188:ILE:HG12	2.08	0.54
9:CB:152:ILE:HG23	9:CB:164:MET:HE2	1.89	0.54
9:CB:258:VAL:HG23	8:CC:407:TRP:HE1	1.73	0.54
2:CU:128:CYS:SG	2:CU:132:ARG:NH1	2.81	0.54
33:Cq:24:LEU:HD11	33:Cr:372:ARG:HD2	1.89	0.54
33:Cq:125:ASP:N	33:Cq:125:ASP:OD1	2.41	0.54
33:Cq:185:ILE:HD11	43:E1:137:VAL:HG21	1.90	0.54
29:D1:404:ARG:HH12	29:EA:456:HIS:CG	2.25	0.54
29:D5:272:ASN:OD1	29:D5:274:ARG:NH2	2.29	0.54
9:DD:131:GLN:HE22	9:DD:250:LEU:HB2	1.73	0.54
9:DJ:167:PHE:HA	9:DJ:200:TYR:HB2	1.88	0.54
9:DJ:174:LYS:HG2	9:DJ:175:VAL:HG23	1.89	0.54
43:E2:29:ASP:O	44:EV:192:ARG:NH2	2.41	0.54
29:EA:220:ARG:NH1	29:EA:338:GLN:OE1	2.40	0.54
8:EC:157:LEU:HD23	8:EC:161:TYR:HB2	1.90	0.54
9:EF:289:LEU:O	9:EF:293:MET:HB2	2.08	0.54
8:EK:145:THR:OG1	67:EK:501:GTP:O2G	2.24	0.54
9:EN:230:SER:HA	9:EN:233:MET:HB3	1.90	0.54
44:ES:190:LEU:O	44:ES:194:ILE:HG13	2.08	0.54
44:EV:106:ARG:HH11	44:EV:110:MET:HE2	1.71	0.54
8:FG:258:ASN:ND2	8:FG:352:LYS:HD2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FK:315:CYS:SG	8:FK:316:CYS:N	2.80	0.54
9:GD:246:LEU:HD21	8:GE:179:THR:HG21	1.90	0.54
8:GM:252:LEU:HA	8:GM:255:PHE:HE1	1.72	0.54
8:HM:211:ASP:OD2	8:HM:304:LYS:NZ	2.38	0.54
47:I:422:TYR:HB2	47:I:440:LEU:HB2	1.90	0.54
9:IB:252:LYS:O	9:IB:256:ASN:HB2	2.08	0.54
9:IH:3:GLU:HA	9:IH:49:VAL:HA	1.90	0.54
8:KI:90:GLU:OE2	8:KI:121:ARG:NH2	2.40	0.54
8:KI:180:ALA:HB3	8:KI:183:GLU:HG3	1.89	0.54
8:LC:2:ARG:HG3	8:LC:133:GLN:NE2	2.23	0.54
8:LC:205:ASP:HB2	8:LC:303:VAL:HA	1.89	0.54
9:ML:8:GLN:HE22	9:ML:17:GLY:HA3	1.72	0.54
9:ML:156:ARG:NH2	9:ML:197:ASP:OD1	2.41	0.54
8:NI:208:ALA:HB2	8:NI:304:LYS:HG2	1.90	0.54
8:OE:245:ASP:N	8:OE:245:ASP:OD1	2.41	0.54
9:OH:170:VAL:HG21	9:OH:377:LEU:HD21	1.88	0.54
8:OI:241:SER:OG	8:OI:250:VAL:O	2.22	0.54
9:QB:288:GLU:HA	9:QB:291:GLN:HE21	1.73	0.54
8:QC:433:GLU:N	8:QC:433:GLU:OE2	2.41	0.54
9:QD:291:GLN:NE2	9:QD:292:GLN:HG2	2.23	0.54
8:QG:345:ASP:OD2	9:QH:391:ARG:NH2	2.40	0.54
8:QI:97:GLU:HG3	8:QI:110:ILE:HD11	1.90	0.54
8:QI:241:SER:HB3	8:QI:356:ASN:HD21	1.72	0.54
9:RD:317:PHE:HE2	9:RD:351:THR:HG23	1.72	0.54
9:RF:290:THR:HA	9:RF:293:MET:SD	2.48	0.54
8:RK:88:HIS:CE1	8:RK:90:GLU:HB2	2.42	0.54
8:SC:9:VAL:HG23	8:SC:68:VAL:HG13	1.89	0.54
8:SE:395:LEU:HD11	8:SE:418:PHE:HZ	1.73	0.54
8:SG:190:THR:O	8:SG:194:THR:OG1	2.23	0.54
54:T:271:VAL:O	54:T:282:THR:HG22	2.08	0.54
8:TE:286:LEU:HB3	8:TE:291:ILE:HD11	1.89	0.54
9:TH:258:VAL:HG11	9:TH:264:HIS:HA	1.89	0.54
9:TJ:51:TYR:O	9:TJ:62:ARG:NH1	2.40	0.54
9:TL:257:MET:HE2	9:TL:368:ILE:HG22	1.88	0.54
9:UD:3:GLU:HG3	9:UD:127:CYS:HB2	1.88	0.54
8:UK:311:LYS:NZ	8:UK:342:GLN:OE1	2.36	0.54
8:UM:254:GLU:O	8:UM:258:ASN:ND2	2.36	0.54
8:VE:320:ARG:HB3	8:VE:374:ALA:HB3	1.89	0.54
9:WD:52:ASN:OD1	9:WD:62:ARG:NH2	2.40	0.54
9:WD:143:THR:O	9:WD:147:MET:HB3	2.08	0.54
8:WG:53:PHE:HB3	8:WG:61:HIS:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WH:49:VAL:HG13	9:WH:50:TYR:HD1	1.71	0.54
8:WK:326:LYS:HD2	9:WL:220:PRO:HD2	1.90	0.54
8:WK:346:TRP:HB3	9:WL:391:ARG:HD3	1.90	0.54
8:WM:241:SER:OG	8:WM:250:VAL:O	2.26	0.54
47:Y:34:ARG:NH1	47:Y:35:ASN:OD1	2.41	0.54
57:YH:154:LYS:HB2	57:YH:154:LYS:HZ3	1.73	0.54
62:j:130:LEU:HD11	62:j:159:MET:HE2	1.89	0.54
2:0A:85:GLU:HG3	2:0A:98:LEU:HD13	1.90	0.54
7:A3:26:PRO:O	8:PM:123:ARG:NH1	2.38	0.54
7:A4:228:MET:O	8:RI:214:ARG:NH1	2.41	0.54
8:AC:408:TYR:HB3	8:AC:413:MET:HE3	1.89	0.54
10:AQ:103:LEU:O	10:AQ:110:ARG:NH2	2.41	0.54
13:Ac:166:LYS:HD2	15:Ar:13:PHE:CD2	2.43	0.54
13:Ac:222:TRP:HB2	13:Ac:337:VAL:HG22	1.89	0.54
13:Ad:139:ASN:O	13:Ad:142:THR:OG1	2.26	0.54
8:BA:140:SER:HB2	8:BA:171:ILE:HB	1.89	0.54
9:BD:38:GLY:O	14:BZ:316:ARG:NH2	2.41	0.54
8:BG:12:ALA:HB1	8:BG:171:ILE:HD12	1.90	0.54
9:BH:30:ILE:HD11	9:BH:47:ILE:HD11	1.89	0.54
9:BH:362:LYS:N	9:BH:362:LYS:HD2	2.22	0.54
9:BJ:239:CYS:HB3	9:BJ:247:ASN:HB2	1.90	0.54
9:BL:293:MET:HG3	9:BL:294:PHE:CD2	2.43	0.54
19:BR:383:SER:OG	19:BR:386:HIS:ND1	2.41	0.54
14:Bb:87:PRO:HG3	33:Cu:215:LEU:HD22	1.90	0.54
25:Bn:72:UNK:O	9:QB:320:ARG:NH1	2.37	0.54
28:C5:351:ILE:HD13	28:C5:470:GLN:HG3	1.90	0.54
28:C7:365:LEU:HD21	28:C7:456:GLU:HG3	1.90	0.54
2:CV:21:GLN:NE2	9:RH:39:ASP:O	2.41	0.54
2:Ca:56:HIS:C	2:Ca:57:HIS:HD1	2.16	0.54
2:Cg:2:MET:HG3	2:Cg:157:GLU:HG2	1.90	0.54
33:Cv:392:ASP:OD1	33:Cv:395:ARG:NH2	2.40	0.54
8:DA:318:LEU:HB2	8:DA:376:CYS:HB3	1.90	0.54
29:DS:176:ILE:HD11	29:DS:324:ALA:HB3	1.89	0.54
9:EB:16:ILE:HA	9:EB:226:ASN:OD1	2.08	0.54
9:ED:168:SER:OG	9:ED:200:TYR:O	2.24	0.54
8:EI:175:PRO:O	8:EI:390:ARG:NH1	2.41	0.54
29:EP:430:LEU:HG	29:EP:434:LYS:HE3	1.90	0.54
44:EV:236:THR:HG22	44:EV:237:ASP:H	1.72	0.54
8:FK:234:ILE:HD11	8:FK:272:TYR:HB2	1.89	0.54
8:FK:392:ASP:OD1	8:FK:422:ARG:NH2	2.41	0.54
9:FN:113:VAL:O	9:FN:117:LEU:HG	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HE:27:GLU:OE1	8:HE:243:ARG:NH1	2.40	0.54
9:IF:95:SER:OG	9:IF:108:GLU:OE2	2.26	0.54
9:IH:92:PHE:HD2	51:N:32:LEU:HA	1.73	0.54
8:IK:292:THR:HG1	8:IK:319:TYR:HH	1.55	0.54
8:KI:150:ALA:O	8:KI:154:MET:HG3	2.08	0.54
9:KN:281:TYR:O	9:LN:86:ARG:NH1	2.40	0.54
9:LN:135:LEU:HB3	9:LN:166:THR:HG22	1.89	0.54
8:MG:430:LYS:HA	8:MG:433:GLU:OE2	2.08	0.54
9:MJ:385:PHE:HZ	9:MJ:408:PHE:HB3	1.72	0.54
9:MN:222:TYR:HE2	69:MN:501:GDP:C5	2.26	0.54
9:NB:344:TRP:CG	8:NC:401:LYS:HZ1	2.26	0.54
9:OB:210:ILE:O	9:OB:214:THR:OG1	2.26	0.54
9:OD:311:LEU:HB2	9:OD:370:ASN:OD1	2.08	0.54
8:OG:438:ASP:OD1	8:OG:438:ASP:N	2.38	0.54
8:OK:346:TRP:CD1	9:OL:391:ARG:HD2	2.43	0.54
8:PE:168:GLU:HB2	8:PE:201:ALA:HA	1.90	0.54
8:QI:211:ASP:HA	8:QI:214:ARG:HE	1.73	0.54
9:QL:238:THR:HG21	9:QL:318:ARG:HH11	1.72	0.54
9:RB:163:ILE:HD11	9:RB:251:ARG:HE	1.73	0.54
8:RG:301:GLN:HE21	8:RG:307:PRO:HD3	1.71	0.54
8:SA:286:LEU:HD11	8:SA:371:VAL:HG13	1.90	0.54
9:SB:184:ASN:O	9:SB:188:SER:OG	2.24	0.54
8:SE:98:ASP:O	8:SE:105:ARG:NH1	2.41	0.54
8:SG:320:ARG:HH22	8:SG:360:PRO:HA	1.72	0.54
9:SL:45:GLU:HG2	9:SL:46:ARG:HG2	1.89	0.54
9:SL:222:TYR:O	9:SL:226:ASN:ND2	2.41	0.54
8:TE:241:SER:OG	8:TE:250:VAL:O	2.25	0.54
8:UG:140:SER:OG	67:UG:501:GTP:O2A	2.20	0.54
8:UG:239:THR:O	8:UG:243:ARG:NH1	2.41	0.54
8:UK:236:SER:O	8:UK:243:ARG:NH2	2.40	0.54
8:UM:3:GLU:OE1	8:UM:64:ARG:NH2	2.41	0.54
1:V:95:GLU:OE1	1:V:96:LYS:HG2	2.08	0.54
9:VD:44:LEU:HG	65:t:155:THR:HG22	1.89	0.54
9:VD:181:GLU:OE1	9:VD:182:PRO:HD3	2.08	0.54
9:VJ:5:VAL:HB	9:VJ:133:PHE:HD2	1.73	0.54
9:WD:330:MET:SD	9:WD:351:THR:OG1	2.63	0.54
8:WE:81:GLY:O	8:WE:84:ARG:NH2	2.41	0.54
8:WE:238:ILE:HD11	8:WE:378:LEU:HD11	1.90	0.54
8:WI:27:GLU:HG2	8:WI:361:THR:HG21	1.90	0.54
8:WM:223:THR:OG1	8:WM:224:TYR:N	2.41	0.54
9:WN:136:THR:HG22	9:WN:167:PHE:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:X:498:VAL:HB	47:X:503:PHE:HE2	1.72	0.54
57:YL:161:ASN:HB3	57:YL:164:VAL:HG12	1.90	0.54
57:YL:223:ASP:O	57:YL:227:GLU:HG3	2.08	0.54
60:f:187:VAL:O	60:f:200:THR:OG1	2.25	0.54
46:o:548:GLN:O	46:o:552:ILE:HG12	2.08	0.54
65:s:151:HIS:ND1	65:s:156:ASN:O	2.41	0.54
2:0A:84:PHE:CZ	2:0A:149:MET:HE3	2.44	0.54
3:1:96:ASP:HA	3:1:143:LEU:HA	1.89	0.54
7:A4:165:GLY:HA2	9:RL:296:ALA:HB3	1.90	0.54
9:AD:320:ARG:NH1	20:BS:339:ASN:O	2.39	0.54
13:Ab:475:PRO:HG3	13:Ab:500:ASN:HB3	1.88	0.54
18:B5:116:VAL:HG13	8:LK:409:VAL:HG11	1.89	0.54
8:BE:79:ARG:HH22	8:BE:94:THR:HG23	1.71	0.54
8:BG:43:GLY:HA3	47:I:222:LYS:HD3	1.88	0.54
19:BQ:361:ILE:HA	19:BQ:436:LEU:HD23	1.90	0.54
21:BV:162:TRP:HZ2	30:CW:412:GLU:HG2	1.73	0.54
14:BZ:239:ASP:HA	14:BZ:242:THR:HG22	1.90	0.54
21:Bj:252:LEU:O	9:KB:276:ARG:NH1	2.39	0.54
27:Bs:163:MET:SD	9:HN:280:GLN:NE2	2.81	0.54
28:C3:478:ARG:HH22	32:Cm:280:LEU:HA	1.73	0.54
8:CA:155:GLU:HA	8:CA:197:HIS:CE1	2.43	0.54
8:CE:75:VAL:HG22	8:CE:79:ARG:HH21	1.73	0.54
9:CH:207:LEU:HB3	9:CH:225:LEU:HD22	1.90	0.54
33:Cq:318:LEU:HG	33:Cq:338:LEU:HB3	1.90	0.54
29:D1:404:ARG:HH12	29:EA:456:HIS:CD2	2.25	0.54
29:D5:177:LYS:O	29:D5:177:LYS:NZ	2.39	0.54
9:DB:271:ALA:HA	9:DB:298:ASN:HD21	1.72	0.54
9:DD:316:VAL:HG12	9:DD:366:THR:HB	1.88	0.54
9:DJ:209:ASP:HB3	9:DJ:213:ARG:HH11	1.73	0.54
8:DK:180:ALA:HB3	8:DK:183:GLU:HB2	1.89	0.54
29:DS:378:ILE:HD13	29:DS:441:ARG:HD3	1.89	0.54
35:Da:131:ALA:HA	44:ET:71:ARG:HH21	1.73	0.54
9:EF:245:GLN:O	8:EG:11:GLN:NE2	2.41	0.54
8:EG:101:ASN:HA	8:EG:144:GLY:H	1.73	0.54
29:EQ:445:GLN:HA	29:EQ:445:GLN:HE21	1.72	0.54
44:EX:33:THR:OG1	44:EX:34:GLY:N	2.40	0.54
9:FJ:288:GLU:O	9:FJ:291:GLN:HB3	2.08	0.54
8:FK:142:GLY:O	8:FK:186:ASN:ND2	2.40	0.54
9:GH:35:THR:HG22	9:GH:58:LYS:HD2	1.90	0.54
9:GJ:282:ARG:NH2	9:GJ:292:GLN:OE1	2.41	0.54
8:JC:422:ARG:HG3	58:q:85:ILE:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JM:133:GLN:HE21	8:JM:252:LEU:HB2	1.73	0.54
9:KJ:228:LEU:HB3	9:KJ:300:MET:HE2	1.89	0.54
9:LD:51:TYR:HB3	9:LD:59:TYR:HB3	1.90	0.54
8:MC:105:ARG:HG3	8:MC:411:GLU:HG2	1.90	0.54
8:ME:238:ILE:HG23	8:ME:255:PHE:HE2	1.73	0.54
9:MN:31:ASP:OD1	9:MN:35:THR:N	2.41	0.54
9:N0:311:LEU:HD11	9:N0:372:THR:HG23	1.90	0.54
8:NE:199:ASP:OD2	8:NE:256:GLN:NE2	2.40	0.54
8:OE:167:LEU:HD11	8:OE:252:LEU:HD11	1.90	0.54
8:OI:238:ILE:HD11	8:OI:378:LEU:HD11	1.89	0.54
9:PD:20:PHE:HA	9:PD:230:SER:HB2	1.90	0.54
9:PF:20:PHE:HA	9:PF:230:SER:HB2	1.90	0.54
8:PI:268:PRO:HA	8:PI:380:ASN:HA	1.90	0.54
8:PK:204:VAL:HG12	8:PK:302:MET:HB3	1.89	0.54
9:QD:390:ARG:O	9:QD:392:LYS:NZ	2.40	0.54
9:RD:190:HIS:NE2	9:RD:410:GLU:OE1	2.41	0.54
9:RH:166:THR:OG1	9:RH:198:GLU:O	2.26	0.54
8:SA:51:THR:HG21	8:SA:243:ARG:HB2	1.89	0.54
9:SD:270:PHE:CE2	9:SD:272:PRO:HD2	2.43	0.54
8:SE:155:GLU:OE2	8:SE:197:HIS:ND1	2.41	0.54
8:SG:98:ASP:OD1	8:SG:98:ASP:N	2.40	0.54
8:SI:153:LEU:HB3	8:SI:154:MET:HE2	1.88	0.54
8:TC:16:ILE:HG23	67:TC:501:GTP:HN21	1.73	0.54
8:TE:207:GLU:HA	8:TE:210:TYR:HB2	1.90	0.54
8:TK:113:GLU:N	8:TK:113:GLU:OE1	2.40	0.54
8:TK:415:GLU:N	8:TK:415:GLU:OE1	2.41	0.54
8:VG:346:TRP:HB3	9:VH:391:ARG:HD2	1.90	0.54
9:VJ:337:ASN:ND2	55:W:141:LEU:O	2.40	0.54
9:VJ:375:GLN:NE2	9:VJ:423:GLN:OE1	2.40	0.54
55:W:65:HIS:CE1	55:W:67:VAL:HG12	2.43	0.54
9:WL:3:GLU:N	9:WL:3:GLU:OE1	2.41	0.54
56:XL:101:ARG:HD3	56:XL:144:TYR:CE2	2.43	0.54
60:e:144:SER:HB3	60:e:151:ILE:HD11	1.89	0.54
60:g:223:PHE:CZ	60:g:235:MET:HE2	2.43	0.54
62:i:45:ARG:HB3	62:i:45:ARG:NH1	2.23	0.54
2:0E:150:LYS:NZ	2:0E:150:LYS:O	2.39	0.53
7:A3:100:THR:O	8:QI:338:LYS:NZ	2.39	0.53
8:AG:244:PHE:HB2	8:AG:356:ASN:HD21	1.74	0.53
9:AJ:140:GLY:O	9:AJ:184:ASN:ND2	2.39	0.53
9:AL:165:ASN:HB3	9:AL:167:PHE:HE2	1.72	0.53
10:AP:9:GLN:NE2	9:KH:304:ASP:HB3	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AQ:75:PRO:HB2	10:AQ:96:ILE:HD13	1.88	0.53
12:AW:342:LEU:HD23	12:AW:355:VAL:HG21	1.90	0.53
13:Ac:179:GLU:N	13:Ac:179:GLU:OE2	2.42	0.53
8:BI:3:GLU:HA	8:BI:51:THR:HA	1.89	0.53
8:BI:385:ALA:HA	8:BI:388:TRP:HD1	1.72	0.53
9:BL:313:VAL:HB	9:BL:349:VAL:HG22	1.90	0.53
19:BR:45:THR:O	19:BR:108:ARG:NH2	2.40	0.53
9:CF:331:LEU:HD21	8:CG:177:VAL:HA	1.91	0.53
9:CH:237:THR:HG22	9:CH:250:LEU:HD21	1.90	0.53
31:Cl:368:ILE:HG13	8:GE:84:ARG:HB2	1.91	0.53
29:D3:275:ASN:HA	29:D4:394:VAL:HG21	1.89	0.53
29:D6:297:GLU:N	29:D6:297:GLU:OE1	2.37	0.53
9:DB:219:THR:O	9:DB:219:THR:OG1	2.25	0.53
9:DD:68:LEU:HB2	9:DD:143:THR:HG23	1.89	0.53
8:DK:26:LEU:HD21	8:DK:363:VAL:HG23	1.89	0.53
9:DN:372:THR:HG21	9:DN:426:GLN:HG2	1.90	0.53
43:E4:18:LEU:HD22	43:E4:22:PHE:HB2	1.88	0.53
29:EA:393:LYS:NZ	29:EP:282:PHE:HA	2.23	0.53
8:EI:288:VAL:HA	8:EI:291:ILE:HG12	1.88	0.53
8:EM:195:LEU:O	8:EM:264:ARG:NH2	2.41	0.53
9:EN:162:ARG:HH12	9:EN:251:ARG:HH22	1.56	0.53
9:EN:269:GLY:HA2	9:EN:300:MET:HE3	1.90	0.53
9:FJ:328:GLU:HA	9:FJ:331:LEU:HB2	1.90	0.53
8:FK:286:LEU:O	8:FK:373:ARG:NH1	2.42	0.53
9:GB:318:ARG:HB3	9:GB:357:PRO:HA	1.90	0.53
8:GE:188:ILE:HG22	8:GE:421:ALA:HB1	1.91	0.53
8:GG:167:LEU:HB3	8:GG:169:PHE:HE2	1.73	0.53
9:HD:330:MET:HA	9:HD:333:VAL:HG12	1.90	0.53
9:HJ:350:LYS:NZ	9:HJ:351:THR:O	2.40	0.53
9:HL:73:MET:HE3	9:HL:92:PHE:CZ	2.43	0.53
47:I:122:ILE:HG12	47:I:133:VAL:HG22	1.89	0.53
9:JD:262:ARG:NH2	9:JD:414:ASN:OD1	2.40	0.53
8:JI:200:CYS:HA	8:JI:266:HIS:HB2	1.89	0.53
9:JJ:327:ASP:HB3	8:JK:177:VAL:HG21	1.89	0.53
8:JK:103:TYR:HB2	8:JK:186:ASN:HD22	1.72	0.53
9:KF:111:GLU:N	9:KF:111:GLU:OE1	2.42	0.53
9:LH:205:GLU:HA	9:LH:208:TYR:HD2	1.73	0.53
9:MB:128:ASP:OD1	9:MB:129:CYS:N	2.41	0.53
9:MD:161:ASP:OD1	9:MD:161:ASP:N	2.41	0.53
8:MG:326:LYS:HD2	9:MH:220:PRO:HD2	1.89	0.53
8:MI:47:ASP:N	8:MI:47:ASP:OD2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MN:154:LYS:NZ	9:MN:157:GLU:OE1	2.40	0.53
8:NA:298:PRO:O	8:NA:301:GLN:NE2	2.40	0.53
9:NB:230:SER:HA	9:NB:233:MET:HG2	1.90	0.53
9:ND:285:THR:N	9:ND:288:GLU:OE2	2.34	0.53
8:NG:320:ARG:HB2	8:NG:374:ALA:HB3	1.89	0.53
8:NI:416:GLY:O	8:NI:419:SER:OG	2.26	0.53
9:OD:119:VAL:HA	9:OD:122:LYS:HB3	1.89	0.53
9:OL:49:VAL:HG11	9:OL:241:ARG:HG2	1.90	0.53
9:PD:355:ASP:N	9:PD:355:ASP:OD1	2.41	0.53
9:PH:143:THR:N	69:PH:501:GDP:O1B	2.38	0.53
9:PH:309:ARG:NH1	9:PH:426:GLN:O	2.39	0.53
8:QI:392:ASP:OD2	8:QI:422:ARG:NH2	2.40	0.53
8:QM:414:GLU:N	8:QM:414:GLU:OE1	2.41	0.53
9:RD:318:ARG:NH2	9:RD:356:ILE:O	2.40	0.53
8:RK:49:PHE:HB2	8:RK:53:PHE:HD2	1.73	0.53
9:SD:221:THR:OG1	9:SD:222:TYR:N	2.41	0.53
8:SM:205:ASP:HB2	8:SM:303:VAL:HA	1.90	0.53
9:TH:404:ASP:OD1	9:TH:404:ASP:N	2.41	0.53
9:UD:117:LEU:HD11	9:UD:154:LYS:HB3	1.89	0.53
8:UI:231:ILE:HA	8:UI:234:ILE:HG22	1.90	0.53
9:UJ:314:ALA:HB3	9:UJ:368:ILE:HB	1.90	0.53
8:UM:139:HIS:ND1	8:UM:146:GLY:O	2.39	0.53
9:VB:265:PHE:HE2	9:VB:418:LEU:HD11	1.73	0.53
9:VL:101:TRP:O	9:VL:105:HIS:HB2	2.08	0.53
9:VL:272:PRO:HG3	9:VL:364:SER:HA	1.90	0.53
9:WH:322:SER:HB2	8:WI:221:ARG:HB3	1.89	0.53
8:WK:414:GLU:HG3	8:WK:416:GLY:H	1.72	0.53
56:XH:16:SER:O	56:XH:36:ARG:NH1	2.40	0.53
56:XL:82:ASN:ND2	56:XL:126:ASP:O	2.37	0.53
56:XL:112:THR:HG22	56:XL:122:PRO:HD2	1.90	0.53
47:Y:274:GLU:OE1	47:Y:276:ARG:NH2	2.40	0.53
60:e:344:PRO:HG3	60:e:350:LEU:HB2	1.90	0.53
60:g:505:ASN:O	60:g:505:ASN:ND2	2.39	0.53
63:k:150:GLU:HG3	63:k:167:MET:HE3	1.90	0.53
2:0E:126:LEU:HD21	2:0E:135:TYR:HB2	1.90	0.53
8:AK:176:GLN:N	8:AK:176:GLN:OE1	2.41	0.53
13:Aa:232:ARG:HH21	13:Aa:365:LYS:HB2	1.73	0.53
13:Ad:15:CYS:HB3	13:Ad:20:MET:HE2	1.91	0.53
7:Av:165:GLY:HA3	9:OJ:296:ALA:HB3	1.90	0.53
7:Ay:92:ARG:NH2	9:GH:304:ASP:HA	2.23	0.53
5:B:87:GLU:N	5:B:87:GLU:OE2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BC:90:GLU:OE1	8:BC:121:ARG:NH1	2.41	0.53
9:BD:171:PRO:O	9:BD:380:ARG:NH2	2.38	0.53
9:BJ:230:SER:HA	9:BJ:233:MET:HE2	1.90	0.53
21:BV:135:ILE:HD11	9:LJ:19:LYS:HZ2	1.72	0.53
22:BW:9:PRO:HG3	8:IC:116:ASP:HB3	1.89	0.53
24:Bh:114:PRO:HB2	8:GI:117:LEU:HD13	1.90	0.53
27:Bs:416:ARG:HH21	8:HE:278:ALA:HB3	1.71	0.53
28:C0:379:ILE:O	28:C0:382:ILE:HG22	2.09	0.53
67:CB:502:GTP:N2	8:CC:206:ASN:OD1	2.34	0.53
9:CF:83:GLN:O	9:DF:281:TYR:OH	2.25	0.53
2:Ch:85:GLU:HA	2:Ch:98:LEU:HD11	1.91	0.53
2:Ci:84:PHE:HE2	2:Ci:149:MET:HG3	1.73	0.53
33:Cr:410:THR:OG1	28:F2:239:LYS:NZ	2.36	0.53
29:D8:201:ARG:O	29:D8:204:ARG:NE	2.39	0.53
41:Dn:222:GLN:NE2	41:Dn:224:LYS:HD3	2.22	0.53
9:EF:103:LYS:HA	9:EF:107:THR:HB	1.89	0.53
8:EG:137:ILE:HG21	8:EG:154:MET:HE2	1.90	0.53
8:EK:143:GLY:O	8:EK:147:SER:OG	2.26	0.53
44:EU:166:ASP:HA	44:EV:56:TRP:HE1	1.73	0.53
8:FG:343:PHE:CZ	8:FG:350:GLY:HA3	2.43	0.53
45:G:271:ASN:ND2	45:G:298:ASP:OD1	2.40	0.53
8:GG:367:ASP:OD1	8:GG:367:ASP:N	2.41	0.53
8:GK:213:CYS:HB2	8:GK:219:ILE:HD11	1.90	0.53
8:HK:47:ASP:OD1	8:HK:47:ASP:N	2.42	0.53
9:ID:304:ASP:HB3	9:ID:307:HIS:CE1	2.44	0.53
8:JE:88:HIS:HE2	8:ME:284:GLU:HG2	1.72	0.53
8:KI:27:GLU:OE2	8:KI:243:ARG:NH1	2.34	0.53
9:KL:100:ASN:HB3	9:KL:103:LYS:HB2	1.90	0.53
9:LH:107:THR:HG22	9:LH:108:GLU:HG2	1.89	0.53
9:MH:51:TYR:HB3	9:MH:59:TYR:HB3	1.90	0.53
8:MM:254:GLU:OE1	9:MN:99:ASN:ND2	2.41	0.53
9:ND:51:TYR:HA	9:ND:61:PRO:HA	1.90	0.53
8:NG:327:ASP:OD1	8:NG:327:ASP:N	2.34	0.53
8:NI:326:LYS:HE3	9:NJ:208:TYR:CG	2.42	0.53
9:OJ:198:GLU:HG3	9:OJ:266:PHE:CE2	2.44	0.53
9:OL:136:THR:HG22	9:OL:167:PHE:HB2	1.90	0.53
8:PC:269:LEU:N	8:PC:379:SER:O	2.39	0.53
8:PM:224:TYR:OH	67:PM:501:GTP:N7	2.40	0.53
9:QB:113:VAL:HA	9:QB:116:VAL:HG12	1.90	0.53
8:QC:427:ALA:HA	8:QC:430:LYS:HE2	1.90	0.53
9:QD:19:LYS:HB2	9:QD:226:ASN:ND2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QG:203:MET:SD	8:QG:384:ILE:HD11	2.48	0.53
8:QI:157:LEU:HA	8:QI:161:TYR:CE2	2.44	0.53
8:QI:322:ASP:O	8:QI:373:ARG:NH1	2.40	0.53
9:QJ:166:THR:OG1	9:QJ:198:GLU:O	2.26	0.53
8:RC:381:THR:HG22	8:RC:383:ALA:H	1.72	0.53
9:RL:209:ASP:OD2	9:RL:213:ARG:NH1	2.40	0.53
9:SD:256:ASN:HD22	9:SD:350:LYS:HG3	1.73	0.53
9:SH:25:SER:OG	9:SH:51:TYR:OH	2.26	0.53
8:SI:168:GLU:HB2	8:SI:201:ALA:HA	1.90	0.53
9:UD:67:ASP:OD1	9:UD:68:LEU:N	2.41	0.53
9:UJ:133:PHE:HB2	9:UJ:164:MET:HB2	1.89	0.53
8:VG:320:ARG:NH1	8:VG:358:GLN:O	2.42	0.53
9:VJ:332:ASN:ND2	55:W:144:ASN:OD1	2.24	0.53
8:WE:188:ILE:HG13	8:WE:395:LEU:HD22	1.90	0.53
56:XH:90:GLU:OE1	56:XH:104:ARG:NH2	2.36	0.53
56:XI:34:ILE:HG23	56:XI:49:ILE:HG22	1.90	0.53
60:f:488:CYS:HB2	60:f:502:ILE:HB	1.89	0.53
7:A8:130:THR:HG22	7:A8:131:PHE:H	1.72	0.53
8:AA:298:PRO:HG2	8:AA:308:ARG:HE	1.73	0.53
8:AE:132:LEU:HB3	8:AE:164:LYS:HZ3	1.74	0.53
8:AG:187:SER:O	8:AG:191:THR:HG22	2.07	0.53
9:AL:31:ASP:OD1	9:AL:32:PRO:HD2	2.08	0.53
14:An:31:VAL:HG13	9:EL:320:ARG:HH11	1.72	0.53
16:At:270:ARG:NH2	9:EH:127:CYS:O	2.41	0.53
17:B8:214:ARG:NH1	43:E3:30:ASP:OD2	2.41	0.53
9:BD:26:ASP:OD1	9:BD:26:ASP:N	2.42	0.53
9:BF:204:ASN:ND2	69:BF:501:GDP:O2'	2.41	0.53
8:BG:188:ILE:HG22	8:BG:421:ALA:HB1	1.91	0.53
8:BG:391:LEU:HD12	8:BG:394:LYS:HD2	1.89	0.53
8:BI:188:ILE:HG22	8:BI:421:ALA:HB1	1.90	0.53
21:BV:185:LEU:HD21	9:MH:56:GLY:HA2	1.90	0.53
29:C1:234:LYS:HA	29:C1:234:LYS:HE3	1.89	0.53
29:C1:241:ILE:HG23	29:C1:244:ARG:HH22	1.74	0.53
28:C2:163:GLU:HG3	28:C2:308:ILE:HG23	1.89	0.53
8:CA:271:THR:HB	8:CA:377:MET:HB3	1.90	0.53
8:CA:349:THR:HB	9:CB:179:VAL:HA	1.89	0.53
9:CB:83:GLN:O	9:DB:281:TYR:OH	2.26	0.53
9:CD:163:ILE:HD13	9:CD:250:LEU:HB3	1.89	0.53
9:CH:284:LEU:HD23	9:CH:362:LYS:HD3	1.90	0.53
33:Cv:60:ASN:ND2	33:Cw:341:GLU:OE1	2.36	0.53
29:D5:177:LYS:HB2	29:D5:239:ILE:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DB:101:TRP:O	9:DB:105:HIS:NE2	2.41	0.53
9:DD:229:VAL:O	9:DD:233:MET:HB3	2.07	0.53
9:DF:416:ASN:HA	9:DF:419:VAL:HG12	1.91	0.53
8:DI:23:LEU:HD13	8:DI:363:VAL:HG13	1.90	0.53
8:DI:254:GLU:HG2	9:DJ:98:GLY:HA2	1.88	0.53
29:DT:42:LEU:HB3	29:DT:46:ARG:HD2	1.91	0.53
8:EE:98:ASP:OD1	8:EE:98:ASP:N	2.39	0.53
8:EG:355:ILE:C	8:EG:356:ASN:HD22	2.17	0.53
9:EH:285:THR:H	9:EH:288:GLU:HB2	1.74	0.53
8:EM:345:ASP:OD1	8:EM:345:ASP:N	2.41	0.53
9:EN:68:LEU:HG	9:EN:147:MET:HE1	1.91	0.53
29:EQ:349:ARG:HD3	29:EQ:353:GLU:HG3	1.89	0.53
8:HK:88:HIS:HB3	8:HK:91:GLN:HG3	1.90	0.53
9:KJ:52:ASN:OD1	9:KJ:62:ARG:NH1	2.41	0.53
8:OE:152:LEU:HA	8:OE:155:GLU:HG2	1.90	0.53
9:PF:67:ASP:HA	9:PF:143:THR:HG21	1.90	0.53
8:PI:363:VAL:HG23	8:PI:366:GLY:HA3	1.89	0.53
9:PJ:347:ASN:ND2	8:PK:180:ALA:O	2.38	0.53
8:QA:2:ARG:NH2	8:QA:251:ASP:OD2	2.40	0.53
9:QB:117:LEU:HD12	9:QB:154:LYS:HZ2	1.73	0.53
8:QC:273:ALA:N	8:QC:274:PRO:HG3	2.24	0.53
8:QE:66:VAL:HG21	8:QE:122:ILE:HD11	1.90	0.53
8:QG:53:PHE:HB3	8:QG:61:HIS:HB3	1.89	0.53
8:RA:253:THR:HA	8:RA:256:GLN:OE1	2.08	0.53
8:RI:88:HIS:ND1	8:SI:283:HIS:HD2	2.07	0.53
9:SB:33:THR:O	9:SB:58:LYS:NZ	2.41	0.53
9:SJ:169:VAL:HA	9:SJ:202:ILE:HB	1.90	0.53
9:SL:350:LYS:NZ	9:SL:351:THR:O	2.41	0.53
9:VL:375:GLN:HB3	9:VL:422:TYR:HD2	1.73	0.53
8:VM:238:ILE:HD11	8:VM:378:LEU:HD21	1.90	0.53
9:WH:257:MET:HE3	9:WH:314:ALA:HB2	1.89	0.53
9:WH:327:ASP:HB3	8:WI:177:VAL:HG11	1.89	0.53
8:WI:204:VAL:HG12	8:WI:302:MET:HB3	1.91	0.53
9:WJ:10:GLY:O	9:WJ:14:ASN:ND2	2.41	0.53
9:WL:143:THR:O	9:WL:147:MET:HB3	2.09	0.53
8:WM:310:GLY:HA3	8:WM:383:ALA:HB2	1.90	0.53
59:b:238:VAL:O	59:b:242:GLU:HB2	2.08	0.53
60:g:572:VAL:HG13	60:g:585:VAL:HG13	1.90	0.53
60:g:589:HIS:NE2	60:g:611:ASP:OD1	2.34	0.53
2:0E:52:SER:O	2:0E:56:HIS:HB2	2.07	0.53
2:0g:46:SER:HB3	2:0g:49:GLN:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A4:183:ALA:O	8:RK:308:ARG:NH1	2.41	0.53
8:AA:96:LYS:NZ	8:AA:114:ILE:HD11	2.23	0.53
9:AD:364:SER:OG	9:AD:365:ALA:N	2.42	0.53
8:AE:205:ASP:HB2	8:AE:303:VAL:HA	1.91	0.53
8:AG:160:ASP:OD1	8:AG:160:ASP:N	2.35	0.53
8:AK:324:VAL:HG22	20:BT:209:GLU:HG3	1.89	0.53
9:AL:20:PHE:HD2	9:AL:233:MET:HE3	1.74	0.53
12:AV:181:SER:O	12:AV:185:ARG:NH1	2.41	0.53
13:Aa:252:LEU:HD12	13:Aa:253:PRO:HD2	1.90	0.53
13:Aa:451:VAL:HG22	13:Aa:467:LEU:HB3	1.90	0.53
13:Ac:265:LEU:HD12	13:Ac:266:GLN:H	1.74	0.53
13:Ad:524:ASP:OD1	13:Ad:524:ASP:N	2.41	0.53
8:BK:172:TYR:N	8:BK:204:VAL:O	2.35	0.53
19:BO:98:SER:OG	19:BO:99:LYS:N	2.42	0.53
20:BT:11:SER:HB3	20:BT:14:VAL:HG23	1.90	0.53
29:C1:255:ARG:HH12	29:C1:258:GLU:HG2	1.73	0.53
28:C2:170:GLU:OE2	28:C2:322:ARG:NH1	2.42	0.53
8:CE:27:GLU:OE2	8:CE:320:ARG:NH2	2.39	0.53
9:CF:101:TRP:O	9:CF:105:HIS:HB2	2.09	0.53
8:CM:127:ASP:OD1	8:CM:127:ASP:N	2.34	0.53
2:CY:92:PRO:O	2:CY:96:ASN:ND2	2.42	0.53
2:Cd:97:LEU:HD22	2:Cd:100:LYS:HZ1	1.74	0.53
2:Ci:54:MET:HE1	2:Ci:68:LEU:HB2	1.90	0.53
33:Cv:302:GLU:OE2	33:Cv:306:ARG:NH2	2.42	0.53
8:DM:36:MET:HE3	8:DM:37:PRO:HD2	1.91	0.53
9:DN:91:VAL:HG21	9:DN:116:VAL:HG22	1.90	0.53
9:DN:390:ARG:HG3	9:DN:391:ARG:HG3	1.90	0.53
29:DW:221:GLU:OE1	29:DW:476:ARG:NH2	2.42	0.53
43:E2:168:VAL:HG11	28:F2:122:VAL:HG12	1.89	0.53
29:EA:145:LEU:HD23	29:EA:271:LEU:HD22	1.91	0.53
9:EB:345:ILE:HD12	9:EB:346:PRO:HD2	1.89	0.53
9:EF:152:ILE:HG21	9:EF:196:THR:HG22	1.90	0.53
8:EG:50:ASN:O	8:EG:64:ARG:NH1	2.41	0.53
9:EH:252:LYS:HG2	9:EH:350:LYS:HE3	1.91	0.53
8:EM:238:ILE:HD11	8:EM:378:LEU:HD21	1.91	0.53
9:FB:2:ARG:NH1	9:FB:249:ASP:OD2	2.41	0.53
8:FE:98:ASP:OD1	8:FE:105:ARG:NH1	2.39	0.53
9:FJ:178:THR:HB	9:FJ:181:GLU:HB3	1.89	0.53
9:GJ:46:ARG:NH1	8:GK:76:ASP:OD2	2.40	0.53
8:HC:88:HIS:HB3	8:HC:91:GLN:HG3	1.90	0.53
9:HH:12:CYS:SG	9:HH:13:GLY:N	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HK:244:PHE:HB2	8:HK:356:ASN:HD21	1.72	0.53
9:IB:306:ARG:HD2	9:IB:306:ARG:N	2.24	0.53
9:IF:271:ALA:O	9:IF:273:LEU:N	2.41	0.53
9:IN:63:ALA:O	9:IN:89:ASN:ND2	2.40	0.53
8:JC:105:ARG:HD2	8:JC:110:ILE:HG12	1.89	0.53
9:JD:2:ARG:HB3	9:JD:131:GLN:HB2	1.90	0.53
9:JD:152:ILE:HA	9:JD:164:MET:HE2	1.90	0.53
8:JG:391:LEU:HA	8:JG:394:LYS:HB2	1.90	0.53
9:JN:109:GLY:HA2	9:JN:147:MET:HE2	1.90	0.53
9:KL:354:CYS:SG	9:KL:355:ASP:N	2.81	0.53
8:KO:119:LEU:HD11	8:KO:156:ARG:HB3	1.90	0.53
9:LN:304:ASP:OD1	9:LN:306:ARG:NH2	2.41	0.53
9:MB:139:LEU:HA	9:MB:145:SER:HB2	1.91	0.53
9:MF:406:MET:O	9:MF:410:GLU:HG2	2.08	0.53
9:ML:424:GLN:NE2	54:T:118:ARG:O	2.41	0.53
8:MM:140:SER:OG	67:MM:501:GTP:O2A	2.25	0.53
9:ND:157:GLU:OE1	9:ND:157:GLU:N	2.28	0.53
9:ND:329:GLN:OE1	9:ND:332:ASN:ND2	2.33	0.53
9:NF:91:VAL:HG11	9:NF:116:VAL:HG12	1.90	0.53
8:NK:168:GLU:HB3	8:NK:201:ALA:HA	1.89	0.53
9:O0:372:THR:HG21	9:O0:426:GLN:HB2	1.89	0.53
8:OG:68:VAL:HG23	8:OG:93:ILE:HB	1.89	0.53
9:OL:178:THR:HB	9:OL:181:GLU:HG3	1.90	0.53
9:PB:248:ALA:HA	9:PB:252:LYS:HD3	1.88	0.53
9:PL:97:ALA:HA	9:PL:103:LYS:HG2	1.90	0.53
8:QA:237:SER:HA	8:QA:320:ARG:HD2	1.90	0.53
8:QC:137:ILE:HB	8:QC:168:GLU:HA	1.91	0.53
9:QH:221:THR:OG1	9:QH:222:TYR:N	2.41	0.53
8:QK:322:ASP:O	8:QK:373:ARG:HG2	2.08	0.53
8:RC:336:LYS:NZ	8:RC:349:THR:O	2.41	0.53
8:RI:228:ASN:ND2	67:RI:501:GTP:O6	2.39	0.53
8:SG:326:LYS:NZ	9:SH:208:TYR:O	2.42	0.53
9:SL:230:SER:HA	9:SL:233:MET:HG2	1.89	0.53
9:TH:351:THR:H	8:TI:179:THR:HG23	1.72	0.53
9:TL:31:ASP:HB3	9:TL:37:HIS:CE1	2.44	0.53
9:UD:286:VAL:HG12	9:UD:329:GLN:HE22	1.74	0.53
9:UL:318:ARG:HE	9:UL:358:PRO:HG3	1.74	0.53
9:VB:350:LYS:HE2	9:VB:352:ALA:HB2	1.90	0.53
8:VE:252:LEU:O	8:VE:256:GLN:NE2	2.39	0.53
9:VF:261:PRO:HB3	8:VG:406:HIS:CG	2.44	0.53
8:VI:271:THR:HB	8:VI:377:MET:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WB:20:PHE:HA	9:WB:230:SER:HB2	1.91	0.53
57:YJ:61:ALA:O	57:YJ:63:LYS:NZ	2.41	0.53
2:0i:5:VAL:O	2:0i:8:SER:OG	2.25	0.53
7:A1:71:SER:OG	7:A1:71:SER:O	2.27	0.53
7:A1:126:ALA:O	9:PF:297:LYS:NZ	2.38	0.53
8:AA:408:TYR:HB3	8:AA:413:MET:HE3	1.91	0.53
8:AG:402:ARG:NH1	8:AG:415:GLU:OE2	2.40	0.53
13:Ab:558:MET:SD	13:Ab:558:MET:N	2.79	0.53
7:Au:249:LEU:HD22	9:FL:87:PRO:HB3	1.91	0.53
18:B5:22:LYS:HE2	18:B5:22:LYS:H	1.73	0.53
8:BA:214:ARG:HH21	8:BA:215:ARG:HG2	1.74	0.53
9:BB:232:THR:HG21	9:BB:268:PRO:HB2	1.89	0.53
9:BH:248:ALA:HA	9:BH:252:LYS:HD3	1.91	0.53
8:BM:209:ILE:HA	8:BM:212:ILE:HD12	1.90	0.53
19:BQ:151:LEU:HD12	19:BQ:227:LEU:HB3	1.89	0.53
14:BZ:289:PHE:HD1	14:BZ:291:PRO:HD3	1.74	0.53
21:Bk:367:ASP:HB3	9:KJ:359:ARG:HH21	1.74	0.53
9:CH:73:MET:HA	9:CH:76:VAL:HG12	1.89	0.53
8:CM:240:ALA:HB1	8:CM:356:ASN:HD22	1.73	0.53
2:Ci:92:PRO:O	2:Ci:96:ASN:ND2	2.41	0.53
8:DA:26:LEU:HD21	8:DA:364:PRO:HD2	1.89	0.53
8:DA:215:ARG:NH1	8:DA:300:ASN:OD1	2.37	0.53
9:DF:295:ASP:OD2	9:DF:296:ALA:N	2.42	0.53
9:DH:112:LEU:HB3	9:DH:147:MET:HE1	1.90	0.53
8:DI:209:ILE:HB	8:DI:227:LEU:HD22	1.91	0.53
8:DK:54:SER:OG	8:DK:55:GLU:N	2.39	0.53
8:DK:155:GLU:N	8:DK:155:GLU:OE2	2.42	0.53
9:DL:117:LEU:HD11	9:DL:154:LYS:HG2	1.89	0.53
29:DV:156:LYS:O	29:DV:160:ASN:ND2	2.40	0.53
41:Dn:210:LYS:HA	9:OF:390:ARG:NH1	2.15	0.53
43:E2:140:LYS:HD3	28:F4:436:GLN:HE22	1.73	0.53
9:ED:33:THR:O	9:ED:58:LYS:NZ	2.42	0.53
8:EK:415:GLU:O	8:EK:419:SER:OG	2.25	0.53
9:EL:128:ASP:OD1	9:EL:128:ASP:N	2.42	0.53
29:EQ:213:ASN:HA	29:EQ:216:LYS:NZ	2.24	0.53
28:F2:382:ILE:HD13	28:F3:128:ILE:HD11	1.91	0.53
8:FC:77:GLU:OE1	8:FC:80:THR:OG1	2.26	0.53
9:FD:69:GLU:HG2	9:FD:71:GLY:H	1.72	0.53
9:FD:345:ILE:HG23	8:FE:398:MET:HE2	1.90	0.53
8:FE:28:HIS:HB2	8:FE:30:ILE:HD12	1.90	0.53
9:GH:309:ARG:NH1	9:GH:341:PHE:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HE:204:VAL:HG11	8:HE:231:ILE:HD11	1.91	0.53
9:HF:121:ARG:NH1	9:HF:158:GLU:OE1	2.38	0.53
9:HF:138:SER:OG	69:HF:501:GDP:O1A	2.26	0.53
8:HI:200:CYS:HA	8:HI:266:HIS:HB2	1.91	0.53
9:ID:304:ASP:HB3	9:ID:307:HIS:HE1	1.73	0.53
8:JG:332:ILE:HA	8:JG:335:ILE:HD12	1.90	0.53
8:JK:133:GLN:HG2	8:JK:252:LEU:HB2	1.91	0.53
9:KH:205:GLU:OE2	9:KH:205:GLU:N	2.36	0.53
9:KH:283:ALA:HB2	9:LH:54:ALA:HA	1.90	0.53
9:KH:321:MET:HE2	9:KH:363:MET:HG2	1.91	0.53
8:KK:105:ARG:HG3	8:KK:411:GLU:HG2	1.90	0.53
9:LN:100:ASN:HB3	9:LN:103:LYS:HB2	1.91	0.53
8:MK:170:ALA:HB3	8:MK:203:MET:HE1	1.91	0.53
8:NC:180:ALA:HB3	8:NC:183:GLU:HG3	1.89	0.53
9:ND:331:LEU:O	9:ND:335:ASN:N	2.41	0.53
8:NE:154:MET:HA	8:NE:157:LEU:HB2	1.90	0.53
8:NI:332:ILE:HG21	9:NJ:175:VAL:HG23	1.90	0.53
8:OC:391:LEU:HD23	8:OC:394:LYS:HD3	1.91	0.53
8:OE:128:LEU:HD11	8:PE:285:GLN:NE2	2.24	0.53
8:OI:123:ARG:NH2	8:PI:297:GLU:OE2	2.41	0.53
9:PD:42:LEU:HD13	9:PD:356:ILE:HG13	1.90	0.53
9:QB:219:THR:O	9:QB:219:THR:OG1	2.25	0.53
8:QE:11:GLN:HG2	8:QE:74:VAL:HG21	1.89	0.53
9:QJ:169:VAL:HA	9:QJ:202:ILE:HB	1.90	0.53
8:RG:21:TRP:HA	8:RG:24:TYR:HB2	1.89	0.53
9:RH:192:LEU:HD21	9:RH:199:THR:HG21	1.91	0.53
8:RK:264:ARG:HD2	8:RK:428:LEU:HD11	1.91	0.53
8:RK:325:PRO:O	8:RK:329:ASN:ND2	2.32	0.53
9:RL:31:ASP:OD2	9:RL:35:THR:N	2.41	0.53
9:RL:289:LEU:HD22	9:RL:363:MET:HE2	1.90	0.53
8:SC:210:TYR:O	8:SC:214:ARG:HB2	2.09	0.53
9:SD:62:ARG:NH2	9:SD:126:SER:OG	2.41	0.53
8:SI:93:ILE:HG21	8:SI:117:LEU:HD22	1.91	0.53
9:TB:27:GLU:OE2	9:TB:241:ARG:NH2	2.42	0.53
9:TF:34:GLY:HA3	9:TF:58:LYS:HE2	1.89	0.53
9:TH:322:SER:OG	9:TH:325:GLU:OE1	2.27	0.53
9:TJ:271:ALA:HA	9:TJ:298:ASN:HD21	1.72	0.53
9:UF:248:ALA:HA	9:UF:252:LYS:HD3	1.90	0.53
8:UM:251:ASP:HB3	8:UM:254:GLU:OE2	2.09	0.53
8:UM:271:THR:HB	8:UM:377:MET:HB3	1.90	0.53
1:V:79:ARG:NH1	1:V:80:ARG:HE	1.99	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VB:331:LEU:HD21	8:VC:177:VAL:HA	1.91	0.53
9:VD:117:LEU:HB3	9:VD:121:ARG:HH12	1.74	0.53
8:VM:38:SER:O	46:o:192:ARG:NH2	2.40	0.53
8:VM:117:LEU:HD11	65:s:164:ASP:HB2	1.90	0.53
9:WB:327:ASP:HB3	8:WC:177:VAL:HG21	1.90	0.53
9:WD:390:ARG:NH1	9:WD:391:ARG:HG3	2.23	0.53
9:WF:267:MET:HE2	9:WF:301:ALA:HB3	1.90	0.53
9:WL:91:VAL:HG11	9:WL:116:VAL:HG22	1.91	0.53
56:XG:123:MET:O	56:XG:124:ARG:NH1	2.41	0.53
56:XL:49:ILE:HG13	56:XL:158:ALA:HA	1.90	0.53
57:YH:173:GLN:O	57:YH:177:VAL:HG12	2.09	0.53
60:e:529:ILE:HB	60:e:543:LEU:HB2	1.91	0.53
60:g:477:GLU:OE1	60:g:478:GLU:HG2	2.08	0.53
62:j:173:SER:OG	62:j:245:GLU:OE2	2.27	0.53
2:0C:34:ARG:HH11	2:0C:135:TYR:HE1	1.55	0.53
5:A:30:HIS:ND1	5:A:30:HIS:O	2.41	0.53
7:A5:82:ASP:O	8:QE:96:LYS:NZ	2.38	0.53
8:AA:27:GLU:OE1	8:AA:243:ARG:NH2	2.41	0.53
8:AG:431:ASP:OD1	56:XJ:102:ARG:NH2	2.40	0.53
12:AW:363:ASP:OD2	61:h:70:ARG:NH1	2.31	0.53
13:Ab:19:ARG:NH2	9:KL:115:SER:OG	2.42	0.53
13:Ac:518:TYR:HE1	13:Ac:522:ASN:HD21	1.56	0.53
13:Ac:645:LYS:NZ	13:Ac:657:GLU:OE2	2.42	0.53
18:B6:85:GLU:OE1	8:LM:192:HIS:NE2	2.34	0.53
9:BD:142:GLY:N	69:BD:501:GDP:O3B	2.41	0.53
19:BP:357:MET:HE1	19:BP:443:LEU:HD12	1.89	0.53
19:BQ:240:GLU:OE2	19:BQ:241:ARG:NH2	2.42	0.53
21:BV:313:ARG:HH11	9:LD:279:GLN:HG3	1.74	0.53
9:CH:136:THR:HG22	9:CH:167:PHE:HB2	1.91	0.53
9:CJ:113:VAL:HA	9:CJ:116:VAL:HG12	1.91	0.53
2:Ce:8:SER:HB3	2:Ce:80:LEU:HD21	1.91	0.53
2:Cj:62:THR:HA	2:Cj:65:ARG:NH1	2.23	0.53
29:D0:392:LEU:HB2	29:D0:426:ILE:HG21	1.91	0.53
29:D2:239:ILE:HD13	29:D2:320:LEU:HD13	1.88	0.53
9:DD:136:THR:HG22	9:DD:167:PHE:HB2	1.91	0.53
9:DD:199:THR:OG1	9:DD:264:HIS:O	2.27	0.53
9:DL:284:LEU:HD12	9:DL:363:MET:HE2	1.90	0.53
29:DU:378:ILE:O	29:DU:382:GLU:HG3	2.08	0.53
29:DW:176:ILE:HG21	29:DW:321:ARG:HG2	1.89	0.53
39:Di:49:VAL:HG23	39:Di:79:SER:HA	1.91	0.53
9:EH:376:GLU:HA	9:EH:379:LYS:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:ES:47:ARG:NH1	44:ES:48:THR:O	2.42	0.53
44:EZ:263:GLU:O	44:EZ:267:ARG:HG3	2.09	0.53
9:FD:117:LEU:HB3	9:FD:121:ARG:NH2	2.24	0.53
9:GH:189:VAL:HB	9:GH:415:MET:HE1	1.89	0.53
8:HG:399:TYR:O	8:HG:402:ARG:NH1	2.40	0.53
9:HH:323:MET:HE1	9:HH:353:VAL:HG21	1.89	0.53
9:JH:161:ASP:OD1	9:JH:162:ARG:NH1	2.42	0.53
9:JH:186:THR:HG22	9:JH:415:MET:HE2	1.91	0.53
8:JK:218:ASP:HB2	8:JK:280:LYS:HE2	1.88	0.53
9:KD:282:ARG:NH2	9:KD:292:GLN:OE1	2.42	0.53
9:KF:10:GLY:O	9:KF:14:ASN:ND2	2.39	0.53
50:L2:83:LEU:HD12	9:VN:41:ASP:HB3	1.91	0.53
9:MB:246:LEU:HD11	67:MC:501:GTP:H5”	1.90	0.53
9:MF:131:GLN:HE22	9:MF:250:LEU:HB2	1.72	0.53
9:MH:135:LEU:HD22	9:MH:152:ILE:HD11	1.90	0.53
9:MN:91:VAL:HG21	9:MN:116:VAL:HG22	1.90	0.53
8:NC:133:GLN:O	8:NC:165:SER:OG	2.25	0.53
9:ND:36:TYR:OH	9:ND:40:SER:O	2.26	0.53
9:NL:189:VAL:HB	9:NL:415:MET:HE1	1.90	0.53
8:OC:180:ALA:HB3	8:OC:183:GLU:HG3	1.90	0.53
8:PI:133:GLN:HB3	8:PI:252:LEU:HD12	1.91	0.53
8:PM:75:VAL:HG12	8:PM:79:ARG:HD2	1.90	0.53
8:QC:195:LEU:HD21	8:QC:428:LEU:HD21	1.91	0.53
8:QG:105:ARG:HG2	8:QG:110:ILE:HG12	1.90	0.53
9:QH:375:GLN:HA	9:QH:378:PHE:HD2	1.72	0.53
8:QI:21:TRP:CH2	8:QI:52:PHE:HB3	2.43	0.53
9:RF:285:THR:HG22	9:RF:287:PRO:HD2	1.90	0.53
8:RI:147:SER:O	8:RI:151:SER:OG	2.26	0.53
8:SE:217:LEU:HD13	8:SE:219:ILE:HD11	1.90	0.53
8:SG:238:ILE:HD11	8:SG:378:LEU:HD21	1.91	0.53
9:SJ:172:SER:OG	9:SJ:175:VAL:O	2.25	0.53
8:TE:183:GLU:HG3	8:TE:184:PRO:HD3	1.90	0.53
9:UD:156:ARG:NH1	9:UD:162:ARG:O	2.41	0.53
8:VC:11:GLN:HB2	8:VC:74:VAL:HG21	1.90	0.53
8:VE:71:GLU:HB3	8:VE:98:ASP:HB3	1.90	0.53
9:VH:215:LEU:HD21	9:VH:273:LEU:HD22	1.91	0.53
9:VJ:359:ARG:NH2	59:b:344:LYS:HG3	2.21	0.53
8:VK:26:LEU:HD21	8:VK:364:PRO:HD2	1.91	0.53
8:VK:116:ASP:OD1	8:VK:156:ARG:NH2	2.41	0.53
8:WC:188:ILE:HG21	8:WC:395:LEU:HD22	1.91	0.53
9:WD:122:LYS:NZ	57:YL:212:ASP:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WE:206:ASN:OD1	67:WE:501:GTP:N2	2.42	0.53
8:WG:259:LEU:O	8:WG:380:ASN:ND2	2.35	0.53
9:WH:3:GLU:N	9:WH:3:GLU:OE1	2.39	0.53
47:Y:107:VAL:HG21	47:Y:113:GLU:HG2	1.90	0.53
59:c:104:PRO:HD2	59:c:105:GLU:H	1.74	0.53
60:e:550:ALA:H	60:e:568:ASN:HB2	1.73	0.53
60:f:480:VAL:HG22	60:f:490:ILE:HG22	1.90	0.53
60:g:492:ASP:OD1	60:g:492:ASP:N	2.40	0.53
60:g:563:PHE:HB3	60:g:575:TRP:HB2	1.91	0.53
2:0i:62:THR:HA	2:0i:65:ARG:HB3	1.90	0.53
4:3:1362:GLN:O	4:3:1366:LYS:HB3	2.09	0.53
9:AJ:32:PRO:HD3	9:AJ:81:PHE:CZ	2.43	0.53
8:BG:360:PRO:HG3	8:BG:374:ALA:HB2	1.91	0.53
8:BK:17:GLY:HA2	8:BK:20:CYS:HB2	1.90	0.53
19:BP:400:MET:HE1	19:BR:247:LEU:HB2	1.90	0.53
14:Bb:68:PHE:HA	29:EQ:344:LEU:HD11	1.89	0.53
28:C4:471:ASP:OD2	32:Cp:275:ARG:NH2	2.42	0.53
28:C9:192:LEU:HB2	28:C9:226:ILE:HG21	1.91	0.53
8:CA:245:ASP:OD2	8:CA:245:ASP:N	2.37	0.53
9:CB:1:MET:HG2	9:CB:2:ARG:HG3	1.90	0.53
9:CH:56:GLY:H	48:K:114:ARG:HH12	1.56	0.53
8:CK:55:GLU:OE2	8:CK:61:HIS:NE2	2.40	0.53
8:CM:151:SER:OG	8:CM:190:THR:OG1	2.27	0.53
2:CY:142:ILE:O	2:CY:146:LEU:HB2	2.09	0.53
2:CZ:130:GLU:HA	2:CZ:134:HIS:HB2	1.90	0.53
33:Cv:199:ILE:HD13	33:Cw:316:THR:HG21	1.90	0.53
8:DA:147:SER:HB2	8:DA:190:THR:HG21	1.91	0.53
8:EC:43:GLY:O	47:X:421:ARG:NH2	2.42	0.53
8:EE:188:ILE:HG13	8:EE:395:LEU:HD22	1.89	0.53
8:EG:103:TYR:HB2	8:EG:186:ASN:HD22	1.73	0.53
8:EI:79:ARG:NH2	8:EI:94:THR:OG1	2.42	0.53
9:EN:62:ARG:NH2	9:EN:123:GLU:O	2.42	0.53
44:EU:371:ASP:OD1	44:EU:372:ALA:N	2.41	0.53
44:EX:169:ARG:HH12	44:EX:174:ILE:HG12	1.74	0.53
9:FD:46:ARG:HH22	8:FE:72:PRO:HB2	1.73	0.53
8:FE:251:ASP:OD2	8:FE:251:ASP:N	2.37	0.53
9:GH:67:ASP:OD2	9:GH:72:THR:OG1	2.20	0.53
8:GI:76:ASP:OD1	8:GI:79:ARG:NH1	2.41	0.53
9:GL:167:PHE:HE2	9:GL:200:TYR:CD2	2.26	0.53
9:GN:358:PRO:HB2	9:GN:361:LEU:HD12	1.91	0.53
9:HH:190:HIS:CD2	9:HH:411:ALA:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HI:140:SER:OG	67:HI:501:GTP:O2A	2.26	0.53
47:I:430:PHE:O	47:I:434:LYS:NZ	2.42	0.53
9:IH:257:MET:O	9:IH:312:THR:OG1	2.27	0.53
9:JB:16:ILE:HD11	9:JB:229:VAL:HG21	1.90	0.53
9:JF:343:GLU:OE1	9:JF:343:GLU:N	2.38	0.53
8:JK:206:ASN:OD1	67:JK:501:GTP:N2	2.36	0.53
9:KL:67:ASP:OD1	9:KL:68:LEU:N	2.42	0.53
9:LB:143:THR:O	9:LB:147:MET:CB	2.57	0.53
9:MB:314:ALA:HB3	9:MB:368:ILE:HB	1.91	0.53
8:MC:26:LEU:HD12	8:MC:363:VAL:HG12	1.91	0.53
8:MM:337:THR:O	8:MM:339:ARG:NH1	2.41	0.53
9:ND:137:HIS:NE2	9:ND:166:THR:OG1	2.42	0.53
8:NG:251:ASP:OD1	8:NG:252:LEU:N	2.42	0.53
8:OA:9:VAL:HG13	8:OA:139:HIS:HB3	1.90	0.53
9:OH:236:VAL:HG22	9:OH:368:ILE:HD11	1.91	0.53
8:OI:257:THR:OG1	9:OJ:98:GLY:O	2.27	0.53
8:OI:413:MET:N	8:OI:413:MET:SD	2.82	0.53
8:OK:267:PHE:HB3	8:OK:384:ILE:HD13	1.91	0.53
9:PD:334:GLN:HE22	9:PD:347:ASN:HD22	1.56	0.53
9:PF:170:VAL:HG21	9:PF:377:LEU:HD11	1.91	0.53
9:PJ:252:LYS:HA	8:PK:100:ALA:HB1	1.91	0.53
8:QA:54:SER:OG	8:QA:55:GLU:N	2.42	0.53
8:QC:103:TYR:HB2	8:QC:186:ASN:HB3	1.90	0.53
9:QF:248:ALA:HA	9:QF:252:LYS:HD3	1.90	0.53
9:RB:20:PHE:CG	9:RB:233:MET:HE2	2.44	0.53
9:RH:101:TRP:HE1	9:RH:188:SER:HB3	1.74	0.53
9:RJ:292:GLN:HA	9:RJ:295:ASP:HB2	1.90	0.53
8:RK:188:ILE:HG13	8:RK:395:LEU:HD22	1.91	0.53
9:RL:284:LEU:HG	9:RL:363:MET:HB3	1.89	0.53
8:SE:382:THR:HA	8:SE:432:TYR:HE1	1.74	0.53
9:SH:97:ALA:HA	9:SH:103:LYS:HE2	1.91	0.53
8:TI:12:ALA:HA	67:TI:501:GTP:N2	2.24	0.53
8:TM:99:ALA:HA	8:TM:105:ARG:HG2	1.90	0.53
8:UE:244:PHE:HB2	8:UE:356:ASN:HD21	1.74	0.53
9:UJ:121:ARG:O	9:UJ:125:GLU:HB2	2.07	0.53
8:UK:271:THR:HB	8:UK:377:MET:HB3	1.89	0.53
67:VL:502:GTP:O2A	8:VM:140:SER:OG	2.26	0.53
8:WK:56:THR:HG23	8:WK:58:ALA:H	1.73	0.53
9:WL:292:GLN:HG2	9:WL:298:ASN:HD22	1.72	0.53
47:X:270:ASP:N	47:X:270:ASP:OD1	2.41	0.53
56:XK:12:SER:HB2	56:XK:164:ARG:HH12	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:Y:97:LEU:HB2	47:Y:124:TYR:HB3	1.91	0.53
57:YI:168:THR:HA	57:YI:171:VAL:HG22	1.90	0.53
57:YL:60:GLY:HA2	57:YL:63:LYS:NZ	2.24	0.53
59:c:94:ASP:OD1	59:c:94:ASP:N	2.40	0.53
3:x:114:ASP:OD1	3:x:118:GLN:NE2	2.41	0.53
7:A6:228:MET:O	8:RM:96:LYS:NZ	2.38	0.53
7:A9:28:PRO:HB3	8:SE:123:ARG:HH22	1.72	0.53
7:A9:87:TYR:HA	9:SB:125:GLU:CD	2.34	0.53
12:AV:59:ASP:O	12:AV:64:ASN:ND2	2.34	0.53
13:Ac:143:ASP:OD1	13:Ac:152:LYS:NZ	2.41	0.53
13:Ac:569:ARG:HG3	13:Ac:585:VAL:HG11	1.90	0.53
13:Ad:109:SER:HB3	13:Ad:111:LEU:HD12	1.90	0.53
16:Ax:161:HIS:HE1	9:FB:290:THR:HG23	1.73	0.53
18:B5:16:LEU:HD11	65:r:130:ARG:HH12	1.72	0.53
9:BJ:141:GLY:N	69:BJ:501:GDP:O1A	2.41	0.53
9:BL:22:GLU:HA	9:BL:81:PHE:CD2	2.44	0.53
19:BR:402:GLN:HE21	19:BR:409:LEU:HD12	1.73	0.53
20:BT:251:ASP:N	20:BT:251:ASP:OD1	2.42	0.53
23:Bg:116:THR:OG1	23:Bg:117:SER:N	2.42	0.53
8:CC:438:ASP:OD1	8:CC:438:ASP:N	2.36	0.53
9:CD:42:LEU:HD23	9:CD:356:ILE:HD11	1.91	0.53
9:CD:299:MET:HG3	9:CD:301:ALA:HB2	1.90	0.53
33:Cw:388:THR:HA	33:Cw:391:MET:HB2	1.91	0.53
29:D0:393:LYS:NZ	29:D1:282:PHE:HA	2.23	0.53
29:D8:301:LYS:NZ	29:D8:305:ASP:OD1	2.40	0.53
9:DL:308:GLY:HA3	9:DL:373:ALA:HB2	1.90	0.53
29:DQ:242:GLN:OE1	29:DQ:316:ASN:ND2	2.42	0.53
29:DR:206:GLY:HA3	29:DR:460:ILE:HD13	1.90	0.53
29:DS:190:PRO:HA	29:DS:193:VAL:HG12	1.91	0.53
29:DW:191:LEU:HD11	29:DW:222:VAL:HG23	1.91	0.53
35:Da:194:ASP:OD1	35:Da:194:ASP:N	2.41	0.53
43:E1:15:ARG:HH12	28:F2:442:GLU:HB3	1.74	0.53
8:EK:192:HIS:ND1	8:EK:424:ASP:OD2	2.33	0.53
42:F:345:PRO:HD2	42:F:348:ALA:HB3	1.90	0.53
9:FF:322:SER:OG	9:FF:323:MET:N	2.42	0.53
9:FL:345:ILE:HG23	8:FM:398:MET:HE2	1.90	0.53
9:GL:209:ASP:OD1	9:GL:213:ARG:NH1	2.41	0.53
8:HO:430:LYS:HA	8:HO:433:GLU:HG3	1.91	0.53
9:IH:121:ARG:NH1	9:IH:158:GLU:OE1	2.41	0.53
9:IJ:178:THR:HB	9:IJ:181:GLU:HB3	1.90	0.53
9:KJ:121:ARG:HD3	57:YI:48:MET:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LB:173:PRO:HD2	9:LB:380:ARG:NH1	2.23	0.53
9:LH:346:PRO:HD2	8:LI:398:MET:HE2	1.91	0.53
8:LK:286:LEU:O	8:LK:373:ARG:NH1	2.42	0.53
8:LM:174:ALA:HB1	8:LM:207:GLU:HG3	1.90	0.53
8:ME:288:VAL:O	8:ME:292:THR:OG1	2.19	0.53
8:MI:422:ARG:O	8:MI:422:ARG:NH1	2.39	0.53
8:MK:42:ILE:HG22	8:MK:44:GLY:H	1.73	0.53
8:MK:255:PHE:O	8:MK:259:LEU:HB2	2.08	0.53
8:NC:212:ILE:HD11	8:NC:300:ASN:HA	1.90	0.53
9:NH:136:THR:HG22	9:NH:167:PHE:HD2	1.74	0.53
9:NJ:31:ASP:OD2	9:NJ:32:PRO:HD2	2.09	0.53
8:OG:10:GLY:HA2	8:OG:145:THR:HB	1.90	0.53
8:OG:325:PRO:O	8:OG:329:ASN:ND2	2.42	0.53
8:OI:136:LEU:HD22	8:OI:169:PHE:CE2	2.44	0.53
9:PF:132:GLY:HA2	9:PF:162:ARG:HB3	1.91	0.53
9:PH:178:THR:HB	9:PH:181:GLU:HG2	1.90	0.53
8:PI:11:GLN:HB2	8:PI:74:VAL:HG21	1.90	0.53
9:PJ:51:TYR:HA	9:PJ:61:PRO:HA	1.91	0.53
8:PK:5:ILE:HD12	8:PK:125:LEU:HD21	1.91	0.53
9:QD:63:ALA:O	9:QD:89:ASN:ND2	2.41	0.53
8:QI:76:ASP:HA	8:QI:79:ARG:HE	1.73	0.53
9:QJ:101:TRP:HD1	9:QJ:146:GLY:HA2	1.73	0.53
9:QJ:189:VAL:HA	9:QJ:192:LEU:HB3	1.90	0.53
8:RI:75:VAL:O	8:RI:79:ARG:NH2	2.38	0.53
9:RJ:15:GLN:HG3	9:RJ:226:ASN:HD21	1.73	0.53
8:RK:145:THR:OG1	67:RK:501:GTP:O1B	2.27	0.53
9:RL:309:ARG:H	9:RL:372:THR:HG1	1.50	0.53
8:SE:141:PHE:O	8:SE:187:SER:OG	2.26	0.53
8:SG:73:THR:O	8:SG:73:THR:OG1	2.27	0.53
8:SM:325:PRO:O	8:SM:329:ASN:ND2	2.30	0.53
8:TG:254:GLU:O	8:TG:258:ASN:ND2	2.42	0.53
9:UB:331:LEU:HD21	8:UC:177:VAL:HA	1.90	0.53
8:UK:139:HIS:ND1	8:UK:146:GLY:O	2.41	0.53
8:VE:79:ARG:HH22	8:VE:94:THR:HG22	1.74	0.53
8:VE:349:THR:OG1	8:VE:350:GLY:N	2.40	0.53
9:VF:237:THR:OG1	9:VF:241:ARG:NH1	2.41	0.53
9:VF:260:PHE:HB2	9:VF:263:LEU:HG	1.90	0.53
8:VG:3:GLU:HA	8:VG:51:THR:HA	1.90	0.53
9:VJ:249:ASP:H	9:VJ:252:LYS:HG2	1.73	0.53
9:VL:249:ASP:OD1	9:VL:252:LYS:N	2.42	0.53
8:WI:9:VAL:HG12	8:WI:146:GLY:HA2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:f:179:THR:HG22	60:f:211:VAL:HG13	1.91	0.53
46:o:505:GLU:OE2	46:o:509:ARG:NH1	2.35	0.53
7:A8:143:MET:HB2	8:TK:308:ARG:HH22	1.73	0.53
7:A8:186:ARG:HE	8:SI:117:LEU:C	2.16	0.53
8:AC:223:THR:HG23	8:AC:225:THR:H	1.74	0.53
9:AL:66:VAL:HG21	9:AL:116:VAL:HG11	1.90	0.53
8:AM:71:GLU:HB2	8:AM:98:ASP:HB3	1.91	0.53
12:AW:363:ASP:OD1	1:V:127:ARG:NH1	2.34	0.53
13:Ab:261:MET:O	9:CJ:77:ARG:NH1	2.42	0.53
7:Ay:78:ARG:HD2	8:FI:90:GLU:HA	1.91	0.53
5:B:113:TYR:OH	9:VF:41:ASP:OD2	2.26	0.53
18:B6:222:ASP:HB2	8:VM:130:THR:HG21	1.91	0.53
8:BI:91:GLN:HG3	8:BI:121:ARG:HH12	1.73	0.53
6:BN:257:MET:HB2	9:IL:306:ARG:HH21	1.74	0.53
19:BP:357:MET:O	19:BP:361:ILE:HG13	2.09	0.53
14:Bc:80:ASP:OD1	14:Bc:80:ASP:N	2.39	0.53
8:CA:15:GLN:OE1	8:CA:228:ASN:ND2	2.42	0.53
33:Cr:53:THR:HG21	33:Ct:307:LYS:HE3	1.91	0.53
29:D5:305:ASP:N	29:D5:305:ASP:OD2	2.34	0.53
9:DB:47:ILE:HG23	9:DB:51:TYR:HB2	1.91	0.53
9:DD:242:PHE:HB3	9:DD:356:ILE:HD13	1.90	0.53
40:Dm:99:MET:HE1	8:GI:364:PRO:HB3	1.91	0.53
8:EK:167:LEU:HD21	8:EK:252:LEU:HD21	1.90	0.53
29:EO:334:GLN:HG2	29:EO:337:ARG:HH12	1.73	0.53
44:EU:127:GLU:OE2	44:EU:279:ARG:NH1	2.42	0.53
44:EX:29:VAL:HG12	44:EX:31:ARG:HD3	1.91	0.53
8:FM:56:THR:HA	8:GM:285:GLN:HG3	1.91	0.53
8:FM:317:MET:HG2	8:FM:377:MET:HG2	1.91	0.53
9:FN:215:LEU:HB3	9:FN:217:LEU:HD13	1.90	0.53
8:GC:93:ILE:HD11	8:GC:121:ARG:HG3	1.91	0.53
9:GJ:159:TYR:HB3	9:GJ:162:ARG:HG2	1.91	0.53
8:GM:160:ASP:OD1	8:GM:160:ASP:N	2.39	0.53
9:HH:252:LYS:NZ	67:HI:501:GTP:O3G	2.42	0.53
9:HL:89:ASN:ND2	9:HL:123:GLU:OE2	2.41	0.53
9:HL:306:ARG:O	9:HL:306:ARG:NH1	2.42	0.53
8:HM:3:GLU:HA	8:HM:51:THR:HA	1.90	0.53
9:HN:330:MET:HB3	9:HN:349:VAL:HG21	1.91	0.53
8:IE:259:LEU:O	8:IE:380:ASN:ND2	2.42	0.53
8:IG:332:ILE:HG22	8:IG:336:LYS:HE3	1.90	0.53
9:JB:289:LEU:O	9:JB:293:MET:HB2	2.09	0.53
8:JC:239:THR:OG1	8:JC:243:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KB:226:ASN:OD1	69:KB:501:GDP:N1	2.37	0.53
9:KD:27:GLU:OE1	9:KD:241:ARG:NH2	2.42	0.53
9:KH:192:LEU:O	9:KH:196:THR:OG1	2.27	0.53
9:LN:292:GLN:HG2	9:LN:298:ASN:ND2	2.23	0.53
9:LN:309:ARG:H	9:LN:372:THR:HB	1.74	0.53
8:NC:70:LEU:HA	8:NC:95:GLY:HA3	1.90	0.53
9:NL:7:LEU:HD13	9:NL:64:VAL:HB	1.90	0.53
8:OC:392:ASP:O	8:OC:422:ARG:NH2	2.42	0.53
52:P:50:GLU:CA	46:o:422:ARG:HH12	2.20	0.53
8:PE:3:GLU:HA	8:PE:51:THR:HA	1.91	0.53
8:PG:188:ILE:HG13	8:PG:189:LEU:HD12	1.90	0.53
8:PM:108:TYR:HA	8:PM:112:LYS:HZ1	1.73	0.53
8:QI:254:GLU:OE1	8:QI:352:LYS:NZ	2.35	0.53
9:QJ:354:CYS:SG	9:QJ:355:ASP:N	2.82	0.53
9:RD:181:GLU:HA	9:RD:184:ASN:HB2	1.90	0.53
9:RD:323:MET:HA	9:RD:326:VAL:HG22	1.90	0.53
9:RH:252:LYS:HB3	9:RH:350:LYS:HZ1	1.74	0.53
9:RJ:14:ASN:HB3	9:RJ:76:VAL:HG11	1.91	0.53
8:SA:143:GLY:O	8:SA:186:ASN:ND2	2.42	0.53
8:SA:246:GLY:HA2	8:SA:357:TYR:HD2	1.74	0.53
8:SG:213:CYS:HA	8:SG:217:LEU:HB2	1.89	0.53
9:SH:321:MET:HB3	9:SH:363:MET:HE1	1.91	0.53
9:SL:398:TYR:HB3	9:SL:403:MET:HE3	1.91	0.53
8:TC:256:GLN:OE1	9:TD:397:TRP:NE1	2.29	0.53
9:TL:211:CYS:HA	9:TL:215:LEU:HB2	1.90	0.53
9:TL:324:LYS:HG3	8:TM:210:TYR:HD2	1.74	0.53
9:UH:67:ASP:HB3	9:UH:73:MET:HE1	1.91	0.53
9:UN:107:THR:HG21	9:UN:401:GLU:HB2	1.91	0.53
8:VC:133:GLN:HG3	8:VC:242:LEU:HD11	1.90	0.53
9:VD:230:SER:HA	9:VD:233:MET:HB2	1.91	0.53
8:VK:65:ALA:H	8:VK:91:GLN:NE2	2.06	0.53
9:VN:131:GLN:OE1	9:VN:250:LEU:HD23	2.08	0.53
9:WB:161:ASP:OD1	9:WB:161:ASP:N	2.38	0.53
9:WD:74:ASP:OD1	9:WD:77:ARG:NH1	2.42	0.53
9:WH:199:THR:OG1	9:WH:264:HIS:O	2.23	0.53
9:WJ:355:ASP:N	9:WJ:355:ASP:OD1	2.40	0.53
60:e:384:ASP:OD2	60:e:385:PHE:N	2.42	0.53
3:x:70:PRO:O	3:x:151:LYS:NZ	2.42	0.53
3:1:137:LYS:HE2	3:1:174:SER:HB2	1.91	0.53
7:A7:71:SER:HB3	8:SI:308:ARG:HD2	1.91	0.53
7:A7:201:THR:HA	9:SB:336:LYS:HG2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A8:223:PRO:O	8:TG:308:ARG:NH1	2.36	0.53
9:AF:6:HIS:HE1	9:AF:136:THR:HG23	1.74	0.53
8:AM:121:ARG:HH12	8:AM:125:LEU:HG	1.74	0.53
12:AW:37:MET:HB2	12:AW:47:LEU:HB3	1.91	0.53
7:Aw:45:LYS:HB2	8:OE:214:ARG:HH22	1.74	0.53
18:B6:103:GLN:OE1	9:LN:416:ASN:ND2	2.41	0.53
8:BE:105:ARG:NH1	8:BE:411:GLU:OE2	2.38	0.53
14:Ba:95:TYR:OH	28:C2:224:ASP:OD2	2.22	0.53
14:Bb:190:LEU:O	14:Bb:192:HIS:ND1	2.30	0.53
21:Bj:185:LEU:HD13	9:LD:56:GLY:H	1.73	0.53
26:Bu:313:VAL:HG21	44:ES:82:GLN:HB3	1.91	0.53
28:C7:188:THR:OG1	28:C7:230:GLN:NE2	2.41	0.53
8:CE:139:HIS:ND1	8:CE:146:GLY:O	2.42	0.53
9:CH:113:VAL:HG21	9:CH:150:LEU:HD23	1.91	0.53
33:Ct:324:ARG:HB2	33:Ct:329:LEU:HD23	1.91	0.53
29:D4:368:LEU:HD21	29:D4:451:LYS:NZ	2.24	0.53
9:DF:10:GLY:O	9:DF:14:ASN:ND2	2.43	0.53
8:DK:11:GLN:HB2	67:DK:501:GTP:H8	1.73	0.53
8:DM:21:TRP:CH2	8:DM:52:PHE:HB3	2.44	0.53
29:DU:121:GLY:O	29:DU:125:ARG:NH1	2.41	0.53
43:E3:158:VAL:O	43:E3:163:ARG:NH2	2.42	0.53
43:E3:193:CYS:SG	28:F5:360:LYS:NZ	2.82	0.53
43:E4:112:ARG:HD3	28:F3:418:LEU:HD22	1.91	0.53
9:EB:127:CYS:HB2	9:EB:130:LEU:HD12	1.91	0.53
44:EZ:191:LYS:HE2	28:F4:377:MET:HE2	1.91	0.53
8:FI:132:LEU:HG	8:FI:164:LYS:HE3	1.91	0.53
9:GL:164:MET:HA	9:GL:164:MET:HE2	1.91	0.53
9:GL:171:PRO:HG2	9:GL:185:ALA:HB2	1.91	0.53
8:HE:395:LEU:HD23	8:HE:422:ARG:HD3	1.90	0.53
9:HF:74:ASP:OD2	64:ke:29:HIS:ND1	2.41	0.53
8:HG:288:VAL:HG11	8:HG:323:VAL:HG13	1.91	0.53
9:HH:190:HIS:HD2	9:HH:411:ALA:HA	1.74	0.53
8:HI:15:GLN:NE2	67:HI:501:GTP:O6	2.40	0.53
8:HI:174:ALA:HB3	8:HI:177:VAL:HB	1.90	0.53
9:HJ:378:PHE:HA	9:HJ:381:ILE:HG22	1.90	0.53
9:JL:170:VAL:HG23	9:JL:203:ASP:OD1	2.09	0.53
9:JL:210:ILE:HD11	9:JL:298:ASN:HA	1.91	0.53
9:KF:35:THR:OG1	9:KF:37:HIS:NE2	2.42	0.53
9:LN:290:THR:HA	9:LN:293:MET:HB2	1.89	0.53
9:LN:372:THR:HG21	9:LN:426:GLN:HB2	1.91	0.53
8:ME:154:MET:HE1	8:ME:194:THR:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MF:263:LEU:HD21	9:MF:421:GLU:HG2	1.89	0.53
9:N0:135:LEU:HD22	9:N0:152:ILE:HD11	1.90	0.53
9:NB:347:ASN:OD1	9:NB:347:ASN:N	2.42	0.53
9:NJ:19:LYS:O	9:NJ:22:GLU:HB2	2.09	0.53
9:PF:284:LEU:O	9:PF:362:LYS:NZ	2.40	0.53
9:PJ:161:ASP:OD2	9:PJ:162:ARG:NH1	2.42	0.53
9:QJ:74:ASP:OD1	9:QJ:77:ARG:NH2	2.41	0.53
9:QL:314:ALA:HB3	9:QL:368:ILE:HB	1.91	0.53
8:RA:320:ARG:HG2	8:RA:360:PRO:HD3	1.90	0.53
9:RD:323:MET:HG3	8:RE:224:TYR:CE1	2.43	0.53
9:RJ:135:LEU:HD22	9:RJ:152:ILE:HD11	1.90	0.53
9:SB:320:ARG:HH22	9:SB:355:ASP:HB3	1.74	0.53
8:SI:69:ASP:OD1	8:SI:70:LEU:N	2.42	0.53
9:TD:113:VAL:HA	9:TD:116:VAL:HG12	1.91	0.53
9:TF:258:VAL:HG13	8:TG:407:TRP:HH2	1.74	0.53
9:UB:246:LEU:HD21	8:UC:179:THR:HG21	1.91	0.53
9:UB:268:PRO:HG2	9:UB:300:MET:HG3	1.90	0.53
9:UJ:139:LEU:HA	9:UJ:145:SER:HB2	1.91	0.53
9:UJ:322:SER:HB2	8:UK:221:ARG:HB2	1.91	0.53
8:VC:186:ASN:OD1	8:VC:408:TYR:OH	2.27	0.53
9:VH:340:TYR:OH	55:W:96:LYS:O	2.26	0.53
8:VK:5:ILE:HD13	8:VK:64:ARG:HB3	1.91	0.53
8:WK:98:ASP:O	8:WK:105:ARG:NH1	2.42	0.53
8:WK:145:THR:O	8:WK:149:PHE:HB3	2.08	0.53
56:XJ:34:ILE:HG12	56:XJ:49:ILE:HG12	1.91	0.53
60:e:119:ALA:HB3	60:e:132:LEU:HB3	1.90	0.53
7:A1:230:ARG:HH12	8:PA:214:ARG:C	2.16	0.52
7:A3:192:VAL:O	8:PE:96:LYS:NZ	2.41	0.52
9:AL:87:PRO:HA	9:AL:90:PHE:HD2	1.75	0.52
8:AM:431:ASP:OD2	56:XG:102:ARG:NH2	2.42	0.52
13:Ab:243:ASP:OD1	13:Ab:243:ASP:N	2.41	0.52
13:Ab:474:LYS:HB3	13:Ab:487:TYR:HB3	1.91	0.52
17:B1:14:THR:OG1	9:NH:245:GLN:NE2	2.42	0.52
8:BE:103:TYR:CD2	8:BE:189:LEU:HB3	2.44	0.52
19:BP:476:GLN:NE2	8:MG:162:GLY:HA3	2.24	0.52
19:BR:96:TRP:CE3	8:MI:430:LYS:HG3	2.44	0.52
20:BT:54:LYS:CE	47:I:153:ARG:HH11	2.22	0.52
28:C4:81:LEU:HB2	28:C4:87:ARG:HH12	1.74	0.52
28:C8:415:MET:HA	28:C8:418:LEU:HD12	1.91	0.52
8:CA:317:MET:N	8:CA:352:LYS:O	2.41	0.52
8:CK:185:TYR:O	8:CK:188:ILE:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ce:26:PHE:O	2:Ce:30:LEU:HD12	2.09	0.52
2:Cf:22:GLN:HA	9:QF:41:ASP:HB2	1.90	0.52
2:Ck:10:ARG:HA	2:Ck:13:GLU:OE1	2.09	0.52
33:Cv:209:PRO:HG2	33:Cw:329:LEU:HD22	1.91	0.52
8:DA:206:ASN:OD1	67:DA:501:GTP:N2	2.39	0.52
8:DC:195:LEU:HD11	8:DC:428:LEU:HD22	1.91	0.52
8:EG:56:THR:OG1	8:EG:57:GLY:N	2.41	0.52
9:EH:314:ALA:HB3	9:EH:368:ILE:HB	1.89	0.52
44:EU:159:ARG:NH1	44:EU:426:ASP:OD1	2.42	0.52
9:FD:36:TYR:HB2	9:FD:59:TYR:HE2	1.74	0.52
8:FG:161:TYR:HB3	8:FG:164:LYS:HG2	1.91	0.52
9:FL:238:THR:OG1	9:FL:318:ARG:NH1	2.41	0.52
45:G:539:LYS:HZ3	8:GM:84:ARG:HD2	1.72	0.52
8:HO:103:TYR:CD2	8:HO:189:LEU:HB3	2.44	0.52
9:JH:314:ALA:HB3	9:JH:368:ILE:HB	1.89	0.52
9:JH:324:LYS:HB3	8:JI:222:PRO:HD2	1.91	0.52
8:JI:266:HIS:O	8:JI:266:HIS:ND1	2.39	0.52
9:KD:133:PHE:HB2	9:KD:164:MET:HE2	1.90	0.52
9:KL:158:GLU:OE2	57:YH:45:LYS:NZ	2.41	0.52
9:LD:20:PHE:HA	9:LD:230:SER:HB2	1.90	0.52
9:LD:401:GLU:N	9:LD:401:GLU:OE2	2.42	0.52
9:LJ:167:PHE:HE1	9:LJ:232:THR:HG22	1.73	0.52
9:LL:210:ILE:HD11	9:LL:298:ASN:HA	1.91	0.52
8:MC:21:TRP:HA	8:MC:24:TYR:HB2	1.91	0.52
8:MG:392:ASP:OD2	8:MG:422:ARG:NE	2.42	0.52
9:N0:215:LEU:HB3	9:N0:217:LEU:HD13	1.90	0.52
9:NL:68:LEU:HD12	9:NL:97:ALA:HA	1.92	0.52
8:OC:239:THR:O	8:OC:243:ARG:NH1	2.42	0.52
9:OD:170:VAL:HG11	9:OD:377:LEU:HD11	1.91	0.52
8:OI:50:ASN:O	8:OI:64:ARG:NH1	2.42	0.52
9:OJ:139:LEU:HD12	9:OJ:170:VAL:HG12	1.90	0.52
8:OK:360:PRO:HG3	8:OK:374:ALA:HB2	1.91	0.52
8:PA:9:VAL:HB	8:PA:139:HIS:HB3	1.90	0.52
8:PI:98:ASP:N	8:PI:98:ASP:OD2	2.39	0.52
9:PL:165:ASN:HB3	9:PL:200:TYR:HE2	1.74	0.52
9:QF:15:GLN:OE1	9:QF:226:ASN:ND2	2.42	0.52
9:QF:117:LEU:HD22	9:QF:154:LYS:HE2	1.91	0.52
9:RB:207:LEU:HD23	9:RB:210:ILE:HD11	1.91	0.52
9:RD:14:ASN:HB3	9:RD:76:VAL:HG21	1.91	0.52
8:RE:46:ASP:N	8:RE:46:ASP:OD1	2.42	0.52
8:RE:288:VAL:HA	8:RE:291:ILE:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RH:117:LEU:HB3	9:RH:121:ARG:NH1	2.25	0.52
8:SG:142:GLY:O	8:SG:186:ASN:ND2	2.39	0.52
8:SG:286:LEU:HD13	8:SG:371:VAL:HG13	1.90	0.52
8:SM:223:THR:OG1	8:SM:224:TYR:N	2.40	0.52
8:TC:60:LYS:HD3	8:UC:282:TYR:CE1	2.44	0.52
8:TI:241:SER:OG	8:TI:250:VAL:O	2.20	0.52
8:UE:147:SER:HB2	8:UE:190:THR:HB	1.91	0.52
9:UJ:178:THR:HB	9:UJ:181:GLU:HB3	1.90	0.52
8:UK:26:LEU:HD23	8:UK:363:VAL:HG12	1.91	0.52
9:VF:284:LEU:HD12	9:VF:362:LYS:HE3	1.92	0.52
8:VG:140:SER:OG	67:VG:501:GTP:O2B	2.26	0.52
9:VJ:209:ASP:CG	9:VJ:213:ARG:HH22	2.17	0.52
60:e:48:CYS:H	60:e:589:HIS:HE1	1.56	0.52
60:f:45:PRO:HB2	60:f:70:VAL:HG11	1.91	0.52
60:g:599:SER:HB3	60:g:604:TYR:H	1.74	0.52
63:l:105:CYS:SG	63:l:106:ALA:N	2.82	0.52
63:n:149:TRP:O	63:n:153:ILE:HG12	2.09	0.52
4:3:1354:ASP:OD1	4:3:1354:ASP:N	2.41	0.52
8:AG:207:GLU:HG3	65:r:87:PHE:CE1	2.44	0.52
13:Aa:272:LYS:HB2	13:Aa:317:GLU:HG3	1.91	0.52
13:Ad:428:THR:OG1	13:Ad:429:HIS:N	2.39	0.52
7:Av:252:ASP:OD1	7:Av:252:ASP:N	2.43	0.52
7:Aw:55:GLY:N	9:OD:306:ARG:HH22	2.03	0.52
8:BC:279:GLU:OE1	14:Bb:238:ARG:NH1	2.42	0.52
9:BJ:217:LEU:HB3	9:BJ:220:PRO:HD3	1.91	0.52
8:BK:70:LEU:HD12	8:BK:99:ALA:HB2	1.91	0.52
8:BK:143:GLY:O	8:BK:186:ASN:ND2	2.43	0.52
9:BL:113:VAL:HA	9:BL:116:VAL:HG22	1.91	0.52
8:CA:88:HIS:HB3	8:CA:91:GLN:HB2	1.90	0.52
9:CB:39:ASP:OD2	38:Dh:14:LEU:HD21	2.10	0.52
8:CC:274:PRO:HG3	8:CC:374:ALA:HA	1.89	0.52
9:CD:314:ALA:HB3	9:CD:368:ILE:HB	1.90	0.52
8:CE:319:TYR:HB3	8:CE:323:VAL:HG21	1.91	0.52
9:CF:1:MET:H3	9:CF:1:MET:HE3	1.73	0.52
8:CK:274:PRO:HG3	8:CK:374:ALA:HA	1.90	0.52
2:CX:112:SER:O	2:CX:115:ARG:NH1	2.40	0.52
2:Cb:77:LEU:HD11	2:Cb:142:ILE:HG23	1.92	0.52
33:Cu:109:PRO:HG3	33:Cu:397:LEU:HD21	1.90	0.52
33:Cx:75:LYS:HD2	33:Cx:180:MET:HG2	1.90	0.52
29:D3:393:LYS:HB3	29:D6:280:ILE:HB	1.91	0.52
9:DF:190:HIS:HB2	9:DF:414:ASN:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DN:253:LEU:HD22	9:DN:368:ILE:HD11	1.89	0.52
29:DP:235:LEU:HD22	29:DP:327:LEU:HD13	1.92	0.52
8:EE:70:LEU:HB3	8:EE:98:ASP:HA	1.90	0.52
8:EG:234:ILE:HD11	8:EG:302:MET:HE2	1.91	0.52
8:EK:137:ILE:HB	8:EK:168:GLU:HG2	1.91	0.52
8:EM:93:ILE:HD13	8:EM:118:VAL:HG12	1.92	0.52
42:F:699:GLU:OE1	42:F:699:GLU:N	2.43	0.52
8:GE:260:VAL:HB	9:GF:397:TRP:HZ2	1.74	0.52
9:GH:322:SER:OG	9:GH:323:MET:N	2.42	0.52
8:GI:417:GLU:HA	8:GI:420:GLU:HG2	1.90	0.52
8:GM:306:ASP:OD2	8:GM:308:ARG:NH1	2.42	0.52
9:HD:237:THR:O	9:HD:241:ARG:NH1	2.42	0.52
8:HG:202:PHE:CZ	8:HG:378:LEU:HD13	2.44	0.52
8:HI:103:TYR:HD2	8:HI:413:MET:HE1	1.74	0.52
9:HN:260:PHE:HE1	8:HO:403:ALA:HA	1.73	0.52
9:IF:3:GLU:HG3	9:IF:127:CYS:HB2	1.91	0.52
8:IM:54:SER:OG	8:IM:64:ARG:NH1	2.43	0.52
8:IO:88:HIS:HB3	8:IO:91:GLN:HG2	1.91	0.52
9:JF:299:MET:HE2	9:JF:305:PRO:HG2	1.91	0.52
9:LJ:262:ARG:NH1	9:LJ:421:GLU:OE2	2.42	0.52
8:MI:317:MET:SD	8:MI:377:MET:HG3	2.49	0.52
9:ML:350:LYS:HD2	9:ML:351:THR:H	1.75	0.52
9:NB:3:GLU:HB2	9:NB:130:LEU:HD23	1.91	0.52
9:NH:17:GLY:HA2	9:NH:20:PHE:HB3	1.90	0.52
9:NH:346:PRO:HD2	8:NI:398:MET:HE2	1.91	0.52
9:NJ:294:PHE:CZ	9:NJ:330:MET:HE1	2.45	0.52
8:OC:204:VAL:HG11	8:OC:231:ILE:HD11	1.91	0.52
8:OC:206:ASN:OD1	67:OC:501:GTP:N2	2.42	0.52
67:PD:502:GTP:HN21	8:PE:227:LEU:HD12	1.74	0.52
8:PK:11:GLN:HE22	67:PK:501:GTP:H8	1.55	0.52
8:QA:358:GLN:NE2	8:QA:359:PRO:O	2.35	0.52
9:QF:101:TRP:CE2	9:QF:187:LEU:HB3	2.44	0.52
8:QI:288:VAL:HG21	8:QI:323:VAL:HG23	1.91	0.52
9:QL:46:ARG:HH21	9:QL:243:PRO:HD3	1.74	0.52
8:QM:349:THR:OG1	8:QM:350:GLY:N	2.42	0.52
8:RA:435:VAL:O	9:RB:391:ARG:NH1	2.42	0.52
8:RC:286:LEU:O	8:RC:373:ARG:NE	2.33	0.52
8:RE:3:GLU:OE1	8:RE:3:GLU:N	2.39	0.52
8:RE:115:VAL:HG22	8:RE:119:LEU:HD23	1.91	0.52
9:SB:113:VAL:HG21	9:SB:150:LEU:HG	1.91	0.52
9:SB:318:ARG:NH1	9:SB:356:ILE:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SC:240:ALA:O	8:SC:356:ASN:ND2	2.43	0.52
9:SJ:202:ILE:HD11	9:SJ:268:PRO:HG2	1.90	0.52
9:TD:62:ARG:NH2	9:TD:127:CYS:SG	2.82	0.52
8:TG:234:ILE:HD11	8:TG:272:TYR:HB2	1.91	0.52
9:TJ:347:ASN:ND2	8:TK:178:SER:HB2	2.24	0.52
8:TM:305:CYS:SG	8:TM:306:ASP:N	2.82	0.52
9:UB:11:GLN:NE2	69:UB:501:GDP:O1A	2.40	0.52
9:UB:282:ARG:NH2	9:UB:292:GLN:OE1	2.42	0.52
8:UM:261:PRO:HB2	8:UM:262:TYR:CD1	2.44	0.52
67:VL:502:GTP:O1B	8:VM:11:GLN:NE2	2.42	0.52
8:VM:132:LEU:HD23	8:VM:164:LYS:HZ2	1.74	0.52
9:VN:190:HIS:HA	9:VN:414:ASN:HD21	1.73	0.52
56:XK:1:MET:HB3	56:XK:69:LEU:HA	1.91	0.52
60:g:180:ALA:HB2	60:g:185:ILE:HG13	1.91	0.52
2:0g:33:CYS:HA	2:0g:36:ASN:OD1	2.09	0.52
2:0k:112:SER:O	2:0k:115:ARG:NH2	2.37	0.52
7:A7:80:GLY:O	8:RI:96:LYS:NZ	2.42	0.52
7:A7:182:PRO:HB3	8:RC:123:ARG:HH22	1.75	0.52
7:A7:223:PRO:HG2	8:SA:298:PRO:HD2	1.90	0.52
9:AD:314:ALA:HB3	9:AD:368:ILE:HB	1.91	0.52
9:AH:272:PRO:HG3	9:AH:364:SER:HA	1.92	0.52
11:AT:123:ILE:HG23	11:AT:125:GLU:H	1.73	0.52
12:AV:256:GLY:O	12:AV:260:MET:HG2	2.10	0.52
14:Am:34:THR:HG1	14:Am:37:ARG:H	1.55	0.52
15:Ar:41:TYR:O	15:Ar:44:THR:OG1	2.23	0.52
16:At:271:GLY:H	9:FH:332:ASN:HB3	1.74	0.52
16:Ax:161:HIS:CE1	9:FB:290:THR:HG23	2.45	0.52
7:Ay:92:ARG:NH2	9:GH:305:PRO:HD2	2.24	0.52
18:B6:64:ASP:OD1	18:B6:64:ASP:N	2.39	0.52
8:BC:10:GLY:HA2	8:BC:145:THR:HG23	1.91	0.52
8:BE:212:ILE:HD11	8:BE:300:ASN:HA	1.92	0.52
9:BF:87:PRO:HA	9:BF:90:PHE:HD2	1.74	0.52
8:BG:313:MET:HB3	8:BG:380:ASN:HB3	1.90	0.52
9:BH:87:PRO:HA	9:BH:90:PHE:HD2	1.74	0.52
21:BV:108:ARG:NH1	26:Bq:37:ALA:O	2.35	0.52
23:Bf:125:PRO:HG3	8:HC:299:ALA:HB3	1.92	0.52
27:Bs:231:ARG:HE	45:G:567:HIS:CE1	2.27	0.52
27:Bs:318:GLU:HB3	9:HH:320:ARG:HH22	1.74	0.52
9:CB:247:ASN:OD1	9:CB:247:ASN:N	2.42	0.52
8:CC:245:ASP:OD1	8:CC:245:ASP:N	2.40	0.52
29:D2:371:ILE:HG22	29:D2:447:LEU:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D2:445:GLN:NE2	29:EA:282:PHE:O	2.42	0.52
9:DJ:330:MET:HA	9:DJ:333:VAL:HG12	1.91	0.52
9:DN:135:LEU:HD22	9:DN:152:ILE:HD12	1.90	0.52
35:Da:166:LYS:HD3	35:Da:167:PRO:HD2	1.91	0.52
39:Dk:33:HIS:NE2	39:Dk:89:CYS:SG	2.82	0.52
42:E:724:SER:OG	42:E:725:GLU:N	2.42	0.52
44:EW:16:THR:HB	28:F2:279:ASP:HB2	1.92	0.52
8:FC:70:LEU:HD12	8:FC:145:THR:HG22	1.91	0.52
9:FD:242:PHE:CG	9:FD:356:ILE:HD12	2.44	0.52
9:HB:3:GLU:HG2	9:HB:127:CYS:HB2	1.90	0.52
9:HJ:273:LEU:O	9:HJ:292:GLN:NE2	2.40	0.52
9:IB:8:GLN:HE21	9:IB:17:GLY:HA3	1.74	0.52
8:IG:332:ILE:HA	8:IG:335:ILE:HD12	1.90	0.52
9:IH:63:ALA:O	9:IH:89:ASN:ND2	2.39	0.52
8:IK:254:GLU:OE1	8:IK:258:ASN:ND2	2.43	0.52
9:IL:46:ARG:NH2	8:IM:76:ASP:OD1	2.42	0.52
9:IL:52:ASN:OD1	9:IL:62:ARG:NH1	2.42	0.52
8:IM:191:THR:HA	8:IM:194:THR:HG22	1.90	0.52
9:JB:252:LYS:O	9:JB:256:ASN:HB2	2.09	0.52
9:JN:267:MET:HE1	9:JN:305:PRO:HD3	1.91	0.52
8:KE:356:ASN:OD1	8:KE:357:TYR:N	2.43	0.52
8:KO:2:ARG:O	8:KO:51:THR:OG1	2.25	0.52
9:LF:245:GLN:O	8:LG:11:GLN:NE2	2.43	0.52
9:MB:1:MET:H3	9:MB:1:MET:HE3	1.73	0.52
9:MB:53:GLU:OE2	9:MB:54:ALA:N	2.42	0.52
9:MB:202:ILE:HD13	9:MB:229:VAL:HG22	1.92	0.52
9:MF:209:ASP:OD1	9:MF:213:ARG:HD3	2.09	0.52
9:MN:139:LEU:HA	9:MN:145:SER:HB3	1.91	0.52
9:N0:191:GLN:O	9:N0:195:ASN:HB2	2.09	0.52
8:NC:349:THR:OG1	8:NC:350:GLY:N	2.40	0.52
8:NG:180:ALA:HB3	8:NG:183:GLU:HG3	1.91	0.52
9:NL:113:VAL:HA	9:NL:116:VAL:HG12	1.91	0.52
9:NL:330:MET:HA	9:NL:333:VAL:HG22	1.90	0.52
9:PB:207:LEU:HD11	9:PB:300:MET:HE3	1.90	0.52
8:PI:8:HIS:HA	8:PI:138:PHE:HB2	1.90	0.52
9:PJ:392:LYS:HG2	9:PJ:395:LEU:HD12	1.90	0.52
9:QJ:238:THR:HG21	9:QJ:318:ARG:HH11	1.74	0.52
9:QL:178:THR:HB	9:QL:181:GLU:HG3	1.91	0.52
9:QL:323:MET:N	9:QL:323:MET:SD	2.82	0.52
9:RB:318:ARG:HD2	9:RB:358:PRO:HD3	1.91	0.52
8:RI:51:THR:HG21	8:RI:243:ARG:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SD:334:GLN:HE22	9:SD:347:ASN:HA	1.74	0.52
9:SF:210:ILE:O	9:SF:214:THR:OG1	2.26	0.52
8:SI:188:ILE:HG13	8:SI:395:LEU:HD22	1.91	0.52
8:TM:168:GLU:HB3	8:TM:201:ALA:HA	1.90	0.52
9:UB:3:GLU:HB2	9:UB:130:LEU:HA	1.91	0.52
8:VI:215:ARG:NH1	55:W:113:TYR:OH	2.42	0.52
9:VJ:276:ARG:HG3	9:VJ:276:ARG:HH11	1.75	0.52
9:VN:20:PHE:HD2	9:VN:233:MET:HG3	1.73	0.52
9:WH:203:ASP:N	9:WH:203:ASP:OD2	2.42	0.52
9:WH:245:GLN:O	8:WI:11:GLN:NE2	2.42	0.52
9:WJ:121:ARG:NH1	9:WJ:158:GLU:OE1	2.42	0.52
9:WN:318:ARG:HD3	9:WN:358:PRO:HD3	1.92	0.52
47:Y:303:GLU:OE1	47:Y:303:GLU:N	2.41	0.52
60:f:253:SER:OG	60:f:254:LEU:N	2.42	0.52
62:j:130:LEU:HB2	62:j:148:ARG:HB2	1.91	0.52
64:ke:90:THR:HG23	64:ke:91:ARG:HD2	1.91	0.52
2:0Y:9:LEU:HD13	2:0Y:149:MET:HE2	1.91	0.52
2:0i:128:CYS:HA	8:QA:85:GLN:OE1	2.10	0.52
7:A6:240:ILE:HG13	7:A6:241:LYS:N	2.24	0.52
8:AA:414:GLU:HG3	8:AA:416:GLY:H	1.74	0.52
8:AK:79:ARG:NH2	8:AK:92:LEU:O	2.42	0.52
8:AK:363:VAL:HG23	8:AK:366:GLY:HA3	1.92	0.52
13:Aa:59:ALA:HB1	20:BT:255:PRO:HG2	1.91	0.52
8:BA:49:PHE:HE1	8:BA:55:GLU:HB2	1.75	0.52
8:BC:9:VAL:HG12	8:BC:68:VAL:HG13	1.91	0.52
8:BG:187:SER:O	8:BG:191:THR:OG1	2.26	0.52
9:BL:322:SER:OG	9:BL:323:MET:N	2.42	0.52
8:BM:242:LEU:HD11	8:BM:252:LEU:HD11	1.91	0.52
6:BN:247:ALA:HB3	8:HM:114:ILE:HD13	1.91	0.52
23:Bf:103:MET:SD	23:Bf:103:MET:N	2.82	0.52
2:CX:3:ASN:OD1	2:CX:3:ASN:N	2.42	0.52
8:DA:213:CYS:O	8:DA:217:LEU:N	2.42	0.52
8:DE:310:GLY:HA3	8:DE:383:ALA:HB2	1.90	0.52
9:DJ:376:GLU:OE2	9:DJ:376:GLU:N	2.39	0.52
9:DN:101:TRP:HE1	9:DN:105:HIS:CD2	2.27	0.52
44:EW:127:GLU:OE1	44:EW:204:ASN:ND2	2.41	0.52
44:EZ:98:ASP:OD2	44:EZ:101:ARG:NH2	2.42	0.52
44:EZ:312:GLU:OE1	44:EZ:427:ARG:NH2	2.43	0.52
8:FE:325:PRO:HA	8:FE:328:VAL:HG12	1.90	0.52
8:FG:319:TYR:HD2	8:FG:323:VAL:HG11	1.75	0.52
9:FJ:311:LEU:HD12	9:FJ:312:THR:HG23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FK:188:ILE:HG13	8:FK:395:LEU:HD13	1.92	0.52
9:FL:325:GLU:N	9:FL:325:GLU:OE1	2.43	0.52
9:FN:296:ALA:HA	9:FN:299:MET:HG2	1.91	0.52
9:GH:290:THR:HG21	9:GH:329:GLN:HB3	1.90	0.52
9:GN:140:GLY:O	9:GN:184:ASN:ND2	2.42	0.52
8:HE:241:SER:OG	8:HE:250:VAL:O	2.24	0.52
8:HK:3:GLU:N	8:HK:3:GLU:OE1	2.41	0.52
9:HN:354:CYS:SG	9:HN:355:ASP:N	2.82	0.52
9:IJ:164:MET:HB3	9:IJ:196:THR:HA	1.91	0.52
9:JF:331:LEU:HD22	8:JG:177:VAL:HG12	1.92	0.52
9:JL:198:GLU:HB3	9:JL:266:PHE:HE2	1.75	0.52
9:JN:202:ILE:HG21	9:JN:229:VAL:HG22	1.91	0.52
9:KB:336:LYS:HE2	9:LB:125:GLU:OE1	2.09	0.52
9:KL:162:ARG:NH2	8:KM:97:GLU:OE2	2.42	0.52
8:KM:392:ASP:OD1	8:KM:422:ARG:NH2	2.39	0.52
9:MH:78:SER:O	9:MH:78:SER:OG	2.27	0.52
9:MN:334:GLN:NE2	9:MN:348:ASN:H	2.08	0.52
9:NF:286:VAL:HA	9:NF:289:LEU:HD12	1.91	0.52
8:NI:195:LEU:HD21	8:NI:264:ARG:HE	1.75	0.52
9:O0:276:ARG:HH21	54:U:178:THR:HG1	1.58	0.52
9:OJ:63:ALA:O	9:OJ:89:ASN:ND2	2.34	0.52
8:PA:192:HIS:HA	8:PA:195:LEU:HD23	1.90	0.52
9:PB:253:LEU:O	9:PB:257:MET:HG2	2.08	0.52
9:PH:99:ASN:ND2	69:PH:501:GDP:O2A	2.42	0.52
8:PM:349:THR:OG1	8:PM:350:GLY:N	2.43	0.52
9:QB:16:ILE:HA	9:QB:226:ASN:ND2	2.23	0.52
9:QB:299:MET:N	9:QB:299:MET:SD	2.81	0.52
8:QE:178:SER:OG	8:QE:180:ALA:O	2.26	0.52
8:QE:252:LEU:HA	8:QE:255:PHE:HD2	1.74	0.52
8:RC:172:TYR:HB2	8:RC:203:MET:HG3	1.91	0.52
8:RI:399:TYR:OH	8:RI:422:ARG:NH2	2.42	0.52
9:RL:66:VAL:HA	9:RL:91:VAL:HG23	1.90	0.52
8:RM:55:GLU:OE1	8:RM:61:HIS:NE2	2.43	0.52
8:RM:75:VAL:HG11	8:RM:94:THR:HA	1.92	0.52
8:RM:115:VAL:HG11	8:RM:152:LEU:HD22	1.90	0.52
9:SD:137:HIS:NE2	9:SD:168:SER:OG	2.37	0.52
9:SL:213:ARG:HA	9:SL:216:LYS:NZ	2.24	0.52
9:UF:95:SER:OG	9:UF:108:GLU:OE1	2.28	0.52
9:UF:101:TRP:O	9:UF:105:HIS:HB2	2.09	0.52
9:VB:65:LEU:HD12	9:VB:90:PHE:HE1	1.74	0.52
9:VN:304:ASP:HB3	9:VN:307:HIS:HE1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WN:156:ARG:NH1	9:WN:162:ARG:O	2.42	0.52
56:XI:54:VAL:HG12	56:XI:159:ASN:ND2	2.25	0.52
57:YJ:223:ASP:O	57:YJ:227:GLU:HG2	2.10	0.52
59:b:255:GLY:O	59:b:259:ILE:HG13	2.09	0.52
60:g:360:ARG:NH1	60:g:369:GLU:OE2	2.35	0.52
63:l:76:PRO:HG3	63:l:145:ASN:HD21	1.75	0.52
2:0e:54:MET:HE1	2:0e:68:LEU:HG	1.91	0.52
6:A0:49:ARG:CZ	8:IK:215:ARG:HH12	2.22	0.52
7:A1:183:ALA:O	8:PC:340:THR:OG1	2.25	0.52
7:A4:201:THR:HA	9:RJ:336:LYS:HZ1	1.73	0.52
8:AC:69:ASP:OD2	8:AC:70:LEU:N	2.43	0.52
8:AK:71:GLU:CD	8:AK:98:ASP:HB3	2.35	0.52
13:Ac:642:LYS:H	13:Ac:672:LYS:HZ3	1.56	0.52
15:Ap:27:LYS:HE3	8:KK:72:PRO:HB3	1.92	0.52
8:BA:186:ASN:OD1	8:BA:408:TYR:OH	2.27	0.52
8:BA:319:TYR:HB3	8:BA:323:VAL:HG21	1.91	0.52
21:BV:121:ASP:HB3	9:MJ:55:THR:HG23	1.92	0.52
14:BY:298:ALA:HB1	8:CI:226:ASN:HD21	1.74	0.52
21:Bk:350:LEU:O	21:Bk:354:LYS:HB2	2.09	0.52
29:C1:151:ASP:OD1	29:C1:151:ASP:N	2.42	0.52
8:CA:223:THR:HG22	8:CA:224:TYR:H	1.75	0.52
9:CH:407:GLU:HA	9:CH:410:GLU:HB3	1.91	0.52
9:CJ:284:LEU:HD11	9:CJ:362:LYS:HB2	1.91	0.52
8:CK:211:ASP:OD1	8:CK:215:ARG:NE	2.41	0.52
9:CL:11:GLN:HA	9:CL:72:THR:HG21	1.91	0.52
30:CW:395:LEU:HD13	8:MI:32:PRO:HG2	1.92	0.52
2:Cf:58:CYS:SG	2:Cf:64:ARG:NH2	2.72	0.52
32:Cm:277:LYS:HD2	32:Co:24:TYR:OH	2.09	0.52
29:Cz:265:PHE:HD2	29:Cz:269:LYS:HD3	1.74	0.52
29:Cz:471:LYS:HZ2	29:DR:379:MET:HE2	1.73	0.52
8:DA:292:THR:HG22	8:DA:375:VAL:HG21	1.91	0.52
9:DB:248:ALA:HB1	9:DB:252:LYS:HG2	1.91	0.52
9:DD:221:THR:HG22	9:DD:223:GLY:H	1.75	0.52
8:DE:254:GLU:OE1	8:DE:352:LYS:NZ	2.38	0.52
8:DI:154:MET:HE1	8:DI:168:GLU:CD	2.34	0.52
8:DK:172:TYR:HB3	8:DK:204:VAL:HG12	1.91	0.52
35:DY:50:ARG:NH2	8:IC:242:LEU:O	2.43	0.52
8:EG:286:LEU:HD13	8:EG:371:VAL:HG13	1.90	0.52
29:EO:238:ARG:NH2	29:EO:323:GLU:OE1	2.43	0.52
44:EZ:131:LEU:HD23	44:EZ:201:ILE:HG13	1.91	0.52
8:FE:274:PRO:HG3	8:FE:374:ALA:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FG:107:HIS:ND1	8:FG:148:GLY:O	2.36	0.52
9:FH:255:VAL:HG13	9:FH:256:ASN:OD1	2.09	0.52
8:GC:190:THR:O	8:GC:194:THR:OG1	2.24	0.52
8:GE:122:ILE:HG21	8:GE:157:LEU:HD21	1.92	0.52
9:GF:267:MET:HE1	9:GF:371:SER:HB3	1.92	0.52
9:GF:273:LEU:O	9:GF:292:GLN:NE2	2.43	0.52
9:GN:215:LEU:HB3	9:GN:217:LEU:HG	1.92	0.52
8:HC:123:ARG:NH2	8:IC:297:GLU:OE2	2.43	0.52
8:HG:246:GLY:HA2	8:HG:357:TYR:HB2	1.91	0.52
9:ID:48:ASN:HD22	62:i:12:ILE:HD13	1.74	0.52
9:ID:232:THR:HG22	9:ID:270:PHE:HB2	1.91	0.52
9:IN:68:LEU:HD22	9:IN:108:GLU:HG2	1.92	0.52
9:IN:103:LYS:NZ	9:IN:401:GLU:OE1	2.41	0.52
9:JB:200:TYR:HB3	9:JB:268:PRO:HG3	1.91	0.52
9:JB:286:VAL:HG22	9:JB:363:MET:HE1	1.91	0.52
49:K1:46:HIS:HB3	8:UK:221:ARG:HD2	1.91	0.52
9:KD:69:GLU:OE2	9:KD:71:GLY:N	2.38	0.52
8:ME:326:LYS:HZ1	9:MF:208:TYR:HB3	1.73	0.52
8:NC:143:GLY:O	8:NC:186:ASN:ND2	2.41	0.52
9:NF:142:GLY:N	69:NF:501:GDP:O2B	2.42	0.52
9:NH:295:ASP:OD2	9:NH:295:ASP:N	2.34	0.52
9:NL:63:ALA:O	9:NL:89:ASN:ND2	2.42	0.52
8:OC:66:VAL:HG11	8:OC:118:VAL:HG23	1.91	0.52
9:OD:286:VAL:HG12	9:OD:329:GLN:HE22	1.75	0.52
8:OE:15:GLN:NE2	67:OE:501:GTP:O6	2.41	0.52
8:OE:392:ASP:HB3	8:OE:422:ARG:HH22	1.74	0.52
8:OI:70:LEU:HB3	8:OI:98:ASP:HA	1.92	0.52
8:OI:399:TYR:OH	8:OI:415:GLU:OE2	2.21	0.52
9:OL:61:PRO:HD3	9:OL:84:ILE:HG13	1.90	0.52
8:PG:27:GLU:OE2	8:PG:243:ARG:NE	2.42	0.52
9:QD:314:ALA:HB3	9:QD:368:ILE:H	1.74	0.52
9:RD:101:TRP:HE1	9:RD:184:ASN:HA	1.73	0.52
9:RD:156:ARG:HH22	9:RD:197:ASP:CG	2.17	0.52
9:RD:322:SER:OG	8:RE:221:ARG:NH1	2.32	0.52
8:RE:255:PHE:O	8:RE:259:LEU:HB2	2.08	0.52
9:RF:249:ASP:OD1	9:RF:249:ASP:N	2.43	0.52
9:RJ:267:MET:HA	9:RJ:267:MET:HE3	1.91	0.52
8:SE:205:ASP:HB2	8:SE:303:VAL:HA	1.90	0.52
9:SJ:278:SER:HA	9:SJ:281:TYR:HD2	1.73	0.52
8:SM:79:ARG:HG3	8:SM:92:LEU:HD12	1.91	0.52
9:TD:330:MET:SD	9:TD:349:VAL:HG11	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TI:224:TYR:HE1	67:TI:501:GTP:C6	2.27	0.52
9:UD:189:VAL:HA	9:UD:192:LEU:HB2	1.91	0.52
9:UF:101:TRP:CZ3	9:UF:403:MET:HE3	2.44	0.52
9:UH:290:THR:HG21	9:UH:329:GLN:HB3	1.92	0.52
8:UI:308:ARG:O	8:UI:342:GLN:NE2	2.43	0.52
9:UN:205:GLU:OE2	9:UN:205:GLU:N	2.42	0.52
8:VI:51:THR:HG21	8:VI:243:ARG:HG2	1.91	0.52
9:VL:331:LEU:HD21	8:VM:177:VAL:HA	1.91	0.52
9:VN:64:VAL:HG21	9:VN:120:VAL:HG12	1.91	0.52
56:XI:121:MET:HE1	56:XI:134:PHE:HZ	1.75	0.52
56:XJ:139:PHE:HE1	56:XJ:142:ARG:HH22	1.58	0.52
57:YI:105:TYR:OH	57:YI:137:HIS:O	2.28	0.52
60:e:557:THR:OG1	60:e:558:VAL:N	2.41	0.52
63:l:65:ILE:HG13	63:l:67:TYR:HE1	1.75	0.52
2:0g:124:ASN:O	2:0g:126:LEU:N	2.43	0.52
4:3:1411:GLY:O	4:3:1480:LYS:NZ	2.42	0.52
8:AC:133:GLN:N	8:AC:164:LYS:HZ3	2.07	0.52
11:AT:246:GLN:O	11:AT:250:ARG:HG2	2.10	0.52
12:AV:8:VAL:H	12:AV:83:THR:HG21	1.75	0.52
12:AW:90:LYS:HA	12:AW:166:ASP:HB3	1.92	0.52
13:Aa:105:VAL:HA	13:Aa:113:GLN:HG2	1.91	0.52
13:Ac:529:SER:HA	13:Ac:587:THR:HG21	1.91	0.52
15:Aq:122:ARG:NH1	32:Co:248:GLN:HB3	2.25	0.52
16:At:241:SER:HB2	9:FJ:336:LYS:HD3	1.92	0.52
7:Aw:45:LYS:HB2	8:OE:214:ARG:NH2	2.24	0.52
8:BA:218:ASP:HB3	14:Be:237:TYR:HB2	1.91	0.52
9:BD:293:MET:HE3	9:BD:367:PHE:HD1	1.74	0.52
19:BO:165:LEU:HB2	19:BO:213:MET:HG2	1.92	0.52
20:BT:153:LEU:HB3	8:KM:80:THR:HG23	1.91	0.52
21:BV:277:SER:OG	21:BV:279:GLU:OE1	2.28	0.52
28:C7:431:ILE:HD13	43:E2:16:GLY:HA3	1.92	0.52
8:CA:181:VAL:HG23	8:CA:182:VAL:HG13	1.91	0.52
9:CH:325:GLU:O	9:CH:329:GLN:NE2	2.42	0.52
2:Cc:65:ARG:NH1	9:OH:38:GLY:O	2.33	0.52
2:Ce:111:LEU:HA	2:Ce:114:LEU:HD13	1.92	0.52
2:Cg:8:SER:HB2	2:Cg:80:LEU:HD21	1.91	0.52
8:DM:123:ARG:NH1	8:DM:161:TYR:OH	2.42	0.52
29:DQ:247:ARG:NH1	29:DQ:250:GLN:OE1	2.36	0.52
29:DX:363:GLN:HB3	29:DX:454:LEU:HD21	1.92	0.52
9:EB:286:VAL:HA	9:EB:289:LEU:HB2	1.92	0.52
8:EC:286:LEU:O	8:EC:373:ARG:NH1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EG:90:GLU:OE1	8:EG:121:ARG:NE	2.43	0.52
9:EH:270:PHE:HD2	9:EH:273:LEU:HG	1.75	0.52
8:EK:70:LEU:HD12	8:EK:145:THR:HG22	1.91	0.52
8:EM:9:VAL:HG13	8:EM:139:HIS:HB3	1.92	0.52
8:EM:102:ASN:ND2	8:EM:411:GLU:OE2	2.41	0.52
29:EO:129:ASP:OD2	29:EO:130:LYS:NZ	2.40	0.52
44:EX:240:PHE:HD1	44:EX:242:PRO:HD3	1.74	0.52
9:FH:26:ASP:OD2	9:FH:359:ARG:NH1	2.43	0.52
9:FH:51:TYR:O	9:FH:62:ARG:NH2	2.42	0.52
8:FI:188:ILE:HD12	8:FI:425:LEU:HD22	1.91	0.52
8:FK:91:GLN:HA	8:FK:121:ARG:HH12	1.74	0.52
9:GH:54:ALA:HA	9:HH:283:ALA:HB2	1.90	0.52
9:HB:130:LEU:HD23	9:HB:162:ARG:HD2	1.91	0.52
8:HC:71:GLU:HG3	8:HC:73:THR:HG22	1.92	0.52
8:IC:433:GLU:N	8:IC:433:GLU:OE1	2.42	0.52
9:ID:166:THR:HG21	9:ID:192:LEU:HD21	1.91	0.52
8:II:88:HIS:HD2	8:II:89:PRO:HD2	1.74	0.52
9:IN:404:ASP:HB3	9:IN:406:MET:SD	2.50	0.52
9:JF:54:ALA:HA	9:MF:283:ALA:HB2	1.90	0.52
9:JH:131:GLN:HE22	9:JH:250:LEU:H	1.56	0.52
8:ME:207:GLU:HG3	8:ME:304:LYS:HG3	1.91	0.52
8:MM:3:GLU:HA	8:MM:51:THR:HA	1.92	0.52
8:NC:88:HIS:HA	8:OC:283:HIS:CD2	2.44	0.52
9:NF:170:VAL:HG11	9:NF:377:LEU:HD11	1.92	0.52
8:NG:122:ILE:HG21	8:NG:157:LEU:HD21	1.91	0.52
8:NG:439:SER:OG	9:NH:390:ARG:NH2	2.42	0.52
9:NL:200:TYR:HE1	9:NL:368:ILE:HG23	1.73	0.52
51:O:126:ASN:HB3	51:O:130:GLY:HA2	1.91	0.52
9:OF:26:ASP:O	9:OF:359:ARG:NH2	2.43	0.52
8:OG:212:ILE:HD11	8:OG:300:ASN:HA	1.91	0.52
8:OG:371:VAL:HG12	8:OG:373:ARG:H	1.74	0.52
9:OJ:161:ASP:OD1	9:OJ:162:ARG:NH1	2.43	0.52
8:PA:9:VAL:HG12	8:PA:146:GLY:HA2	1.92	0.52
8:PA:76:ASP:HA	8:PA:79:ARG:CG	2.38	0.52
8:PC:9:VAL:HG12	8:PC:146:GLY:HA2	1.91	0.52
9:PD:83:GLN:O	9:QD:281:TYR:OH	2.28	0.52
9:PJ:184:ASN:O	9:PJ:188:SER:OG	2.28	0.52
8:PK:427:ALA:HA	8:PK:430:LYS:HG2	1.91	0.52
9:QD:192:LEU:HD21	9:QD:199:THR:HG21	1.92	0.52
9:QD:312:THR:HA	9:QD:348:ASN:HB3	1.91	0.52
9:QF:320:ARG:NH2	9:QF:321:MET:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QG:6:SER:HB3	8:QG:8:HIS:CE1	2.45	0.52
8:QG:195:LEU:HD11	8:QG:428:LEU:HD21	1.92	0.52
8:QI:50:ASN:O	8:QI:64:ARG:NH1	2.42	0.52
9:QJ:346:PRO:HD3	8:QK:398:MET:HB2	1.92	0.52
8:QM:416:GLY:O	8:QM:419:SER:OG	2.28	0.52
9:RB:180:VAL:HG13	9:RB:184:ASN:HD21	1.74	0.52
8:RC:264:ARG:HB3	8:RC:428:LEU:HD11	1.91	0.52
8:RG:322:ASP:OD1	8:RG:322:ASP:N	2.41	0.52
8:RG:348:PRO:HG2	9:RH:384:GLN:NE2	2.24	0.52
8:RI:223:THR:OG1	8:RI:224:TYR:N	2.43	0.52
9:RJ:27:GLU:HA	9:RJ:359:ARG:NE	2.24	0.52
8:RM:422:ARG:NH2	8:RM:425:LEU:HD22	2.24	0.52
9:SB:228:LEU:HD11	9:SB:273:LEU:HD11	1.91	0.52
8:SE:367:ASP:N	8:SE:367:ASP:OD1	2.41	0.52
9:TB:171:PRO:HB3	9:TB:181:GLU:OE2	2.09	0.52
8:TC:214:ARG:NE	8:TC:220:GLU:OE2	2.42	0.52
8:TK:183:GLU:HG3	8:TK:184:PRO:HD3	1.91	0.52
9:UB:44:LEU:HD13	9:UB:47:ILE:HG21	1.90	0.52
9:UJ:51:TYR:HB3	9:UJ:59:TYR:HB3	1.90	0.52
8:UM:65:ALA:O	8:UM:91:GLN:NE2	2.43	0.52
8:VC:350:GLY:HA2	9:VD:179:VAL:HG13	1.91	0.52
8:VG:9:VAL:HG12	8:VG:146:GLY:HA2	1.92	0.52
8:VI:336:LYS:NZ	8:VI:348:PRO:O	2.37	0.52
9:VJ:323:MET:SD	9:VJ:323:MET:N	2.77	0.52
9:WB:309:ARG:NH2	9:WB:339:SER:O	2.43	0.52
9:WD:215:LEU:HD21	9:WD:273:LEU:HD22	1.92	0.52
9:WF:390:ARG:HG3	9:WF:391:ARG:HG2	1.90	0.52
9:WH:252:LYS:HZ3	8:WI:100:ALA:HA	1.75	0.52
56:XG:50:GLU:HA	56:XG:159:ASN:H	1.74	0.52
57:YG:168:THR:HA	57:YG:171:VAL:HG22	1.89	0.52
58:Z:79:LYS:HB2	66:u:350:MET:HE1	1.92	0.52
63:n:157:PHE:HA	63:n:161:SER:HA	1.91	0.52
2:0a:50:VAL:HA	2:0a:53:TYR:CD2	2.45	0.52
4:3:1345:LEU:HD11	4:3:1364:LEU:HD22	1.92	0.52
6:A0:184:ALA:HB3	9:ID:295:ASP:HB2	1.91	0.52
12:AW:298:GLU:HA	12:AW:301:THR:HG22	1.92	0.52
13:Ac:451:VAL:HG23	13:Ac:466:PHE:HB3	1.92	0.52
13:Ad:309:TYR:OH	9:BB:78:SER:HA	2.10	0.52
7:Az:227:THR:HG22	7:Az:228:MET:H	1.75	0.52
8:BG:27:GLU:OE1	8:BG:243:ARG:NH2	2.42	0.52
8:BI:327:ASP:N	8:BI:327:ASP:OD2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BK:218:ASP:OD1	8:BK:218:ASP:N	2.40	0.52
19:BO:251:PRO:HB2	19:BO:254:LYS:HB3	1.92	0.52
20:BT:153:LEU:HD12	20:BT:156:GLN:NE2	2.24	0.52
14:Be:275:THR:HG1	14:Be:278:ARG:NH2	2.08	0.52
5:C:158:SER:O	5:C:161:ARG:NH1	2.43	0.52
8:CA:26:LEU:HD11	8:CA:364:PRO:HD3	1.91	0.52
8:CA:195:LEU:HD21	8:CA:428:LEU:HD13	1.91	0.52
8:CC:182:VAL:HA	8:CC:398:MET:HE1	1.92	0.52
2:CV:31:GLU:HG2	2:CV:135:TYR:HE2	1.75	0.52
33:Cv:389:LYS:NZ	28:F4:481:PRO:O	2.43	0.52
29:D1:254:GLU:OE2	29:EP:203:LYS:HE2	2.09	0.52
8:DE:129:CYS:SG	8:DE:130:THR:N	2.83	0.52
8:DE:275:VAL:HA	8:DE:368:LEU:HD21	1.91	0.52
8:DG:212:ILE:HD11	8:DG:300:ASN:HA	1.91	0.52
8:DK:273:ALA:HA	8:DK:300:ASN:HD21	1.75	0.52
8:EE:255:PHE:O	8:EE:259:LEU:HB2	2.10	0.52
28:F3:213:ASP:OD1	28:F3:213:ASP:N	2.42	0.52
28:F4:202:ARG:NE	28:F4:216:GLU:OE2	2.38	0.52
9:FB:121:ARG:O	9:FB:125:GLU:CB	2.57	0.52
9:FB:309:ARG:H	9:FB:372:THR:HG1	1.58	0.52
9:FJ:285:THR:HG23	9:FJ:287:PRO:HD2	1.91	0.52
9:GD:165:ASN:HD21	9:GD:250:LEU:HD11	1.74	0.52
9:GF:140:GLY:O	9:GF:184:ASN:ND2	2.43	0.52
9:IB:295:ASP:OD1	9:IB:295:ASP:N	2.41	0.52
9:ID:1:MET:HE1	9:ID:128:ASP:HB3	1.90	0.52
9:ID:372:THR:HG21	9:ID:426:GLN:HB2	1.92	0.52
9:ID:380:ARG:HA	9:ID:383:GLU:HG2	1.91	0.52
9:IH:354:CYS:SG	9:IH:355:ASP:N	2.82	0.52
9:IJ:271:ALA:HB2	9:IJ:293:MET:HG3	1.91	0.52
8:IO:105:ARG:HH11	8:IO:110:ILE:HD11	1.74	0.52
9:JB:323:MET:HA	9:JB:326:VAL:HG22	1.92	0.52
9:KB:101:TRP:CE2	9:KB:187:LEU:HD21	2.44	0.52
9:KD:181:GLU:HG3	9:KD:182:PRO:HD3	1.91	0.52
9:LF:429:THR:O	8:LG:401:LYS:NZ	2.37	0.52
9:LL:108:GLU:OE1	9:LL:108:GLU:N	2.43	0.52
9:N0:256:ASN:HA	8:NA:404:PHE:HE2	1.73	0.52
9:NH:230:SER:HA	9:NH:233:MET:HB3	1.92	0.52
9:NJ:330:MET:HA	9:NJ:330:MET:HE3	1.92	0.52
8:NK:326:LYS:NZ	8:NK:329:ASN:HD22	2.07	0.52
8:OC:60:LYS:HD3	8:PC:283:HIS:HB3	1.91	0.52
8:OC:226:ASN:HD22	8:OC:226:ASN:H	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PB:170:VAL:HG21	9:PB:377:LEU:HD11	1.91	0.52
8:PC:209:ILE:HG23	8:PC:227:LEU:HD22	1.91	0.52
9:PH:149:THR:HA	9:PH:152:ILE:HG12	1.90	0.52
8:PI:414:GLU:CD	8:PI:416:GLY:H	2.18	0.52
9:QD:16:ILE:HA	9:QD:226:ASN:HD21	1.74	0.52
9:QD:204:ASN:OD1	69:QD:501:GDP:N2	2.37	0.52
9:QH:42:LEU:HD12	9:QH:43:GLN:HG3	1.91	0.52
8:QM:155:GLU:HG3	8:QM:193:THR:HG23	1.91	0.52
8:RA:153:LEU:O	8:RA:157:LEU:HD23	2.10	0.52
9:RB:395:LEU:HA	9:RB:398:TYR:HB2	1.92	0.52
9:SB:247:ASN:ND2	8:SC:73:THR:OG1	2.39	0.52
8:SC:2:ARG:NH2	9:SD:69:GLU:OE1	2.43	0.52
8:SC:288:VAL:O	8:SC:292:THR:OG1	2.16	0.52
8:SG:164:LYS:HD2	8:SG:165:SER:H	1.75	0.52
8:TC:211:ASP:OD2	8:TC:304:LYS:NZ	2.42	0.52
9:TH:113:VAL:HG11	9:TH:150:LEU:HG	1.92	0.52
9:TH:304:ASP:OD2	9:TH:307:HIS:ND1	2.43	0.52
8:TM:261:PRO:HG2	8:TM:262:TYR:HD1	1.75	0.52
8:UC:328:VAL:O	8:UC:332:ILE:HG12	2.09	0.52
8:UM:261:PRO:HB2	8:UM:262:TYR:HD1	1.75	0.52
8:VC:369:ALA:HA	59:a:208:GLN:HE22	1.74	0.52
8:WC:206:ASN:OD1	67:WC:501:GTP:N2	2.37	0.52
9:WD:132:GLY:HA3	9:WD:163:ILE:HG12	1.92	0.52
56:XH:96:ASP:HA	56:XH:149:ILE:HD11	1.91	0.52
56:XL:91:VAL:HG12	56:XL:154:VAL:HG12	1.91	0.52
62:i:75:PRO:HG2	62:i:216:LYS:NZ	2.23	0.52
46:o:422:ARG:HG3	46:o:425:GLN:OE1	2.10	0.52
66:w:324:ALA:O	66:w:328:LYS:NZ	2.42	0.52
3:1:133:HIS:CD2	3:1:152:LEU:HD12	2.44	0.52
7:A5:141:ALA:HA	8:RA:308:ARG:HH11	1.74	0.52
8:AE:79:ARG:NH2	8:AE:92:LEU:O	2.40	0.52
8:AE:122:ILE:HG21	8:AE:157:LEU:HD21	1.92	0.52
8:AE:313:MET:HE1	8:AE:435:VAL:HG13	1.91	0.52
9:AF:11:GLN:NE2	9:AF:69:GLU:OE2	2.43	0.52
12:AW:4:SER:OG	12:AW:5:GLU:N	2.37	0.52
14:Al:34:THR:HG22	8:EE:219:ILE:HB	1.91	0.52
14:An:17:ILE:H	14:An:17:ILE:HD12	1.75	0.52
15:Ar:174:ARG:NH2	8:BC:46:ASP:OD2	2.41	0.52
16:At:283:ALA:HB3	9:EH:92:PHE:HB2	1.90	0.52
7:Az:222:SER:HB2	8:PM:308:ARG:HH22	1.75	0.52
17:B3:211:TYR:HH	44:EV:284:CYS:HG	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:B4:230:LEU:HD12	9:LB:31:ASP:HB3	1.90	0.52
8:BE:152:LEU:O	8:BE:156:ARG:HG2	2.10	0.52
9:BF:1:MET:SD	9:BF:1:MET:N	2.82	0.52
6:BN:217:PRO:O	9:IN:329:GLN:NE2	2.43	0.52
20:BS:225:LEU:HB2	20:BS:228:ASP:HB2	1.91	0.52
29:C1:425:THR:HG21	29:DP:137:MET:HE1	1.92	0.52
28:C2:403:ARG:NH2	28:C2:414:ASP:OD2	2.39	0.52
28:C5:362:GLN:HG2	32:Co:395:LYS:HE2	1.91	0.52
9:CB:331:LEU:HD22	8:CC:177:VAL:HG12	1.91	0.52
8:CE:349:THR:OG1	8:CE:350:GLY:N	2.42	0.52
9:CH:143:THR:O	9:CH:147:MET:HB2	2.10	0.52
33:Cr:13:ARG:NH1	33:Ct:130:LYS:O	2.43	0.52
29:Cz:235:LEU:HD21	29:Cz:324:ALA:HA	1.92	0.52
8:DA:119:LEU:HD22	8:DA:156:ARG:HD2	1.90	0.52
8:DC:207:GLU:HA	8:DC:210:TYR:HB2	1.90	0.52
9:DH:285:THR:HG22	48:K:117:VAL:HA	1.91	0.52
37:De:197:GLY:O	37:De:200:MET:HB3	2.09	0.52
43:E2:52:THR:OG1	43:E2:53:PRO:HD3	2.10	0.52
9:EB:39:ASP:N	9:EB:39:ASP:OD2	2.43	0.52
8:EC:317:MET:HB2	8:EC:353:VAL:HA	1.92	0.52
9:EN:164:MET:HE2	9:EN:164:MET:HA	1.91	0.52
9:FD:39:ASP:OD1	9:FD:39:ASP:N	2.42	0.52
9:FD:55:THR:HB	9:GD:283:ALA:HA	1.92	0.52
9:FF:2:ARG:HB2	9:FF:131:GLN:HB2	1.92	0.52
8:GK:132:LEU:HB3	8:GK:164:LYS:NZ	2.22	0.52
8:GK:414:GLU:HG3	8:GK:416:GLY:H	1.74	0.52
9:HF:359:ARG:NH2	64:ke:64:SER:OG	2.42	0.52
8:HG:54:SER:OG	8:HG:55:GLU:N	2.43	0.52
9:HH:101:TRP:HD1	9:HH:145:SER:HB3	1.74	0.52
9:IF:232:THR:HG22	9:IF:270:PHE:HB2	1.91	0.52
9:IJ:108:GLU:C	3:x:68:ARG:HH22	2.18	0.52
8:IO:322:ASP:O	8:IO:373:ARG:NH1	2.43	0.52
8:JK:15:GLN:O	8:JK:228:ASN:ND2	2.43	0.52
9:LJ:148:GLY:O	9:LJ:152:ILE:HG13	2.10	0.52
8:MI:385:ALA:HA	8:MI:388:TRP:HD1	1.73	0.52
9:NL:54:ALA:HB3	9:NL:58:LYS:HB3	1.92	0.52
8:OA:315:CYS:SG	8:OA:316:CYS:N	2.83	0.52
9:OB:170:VAL:HG11	9:OB:377:LEU:HD11	1.91	0.52
9:OH:48:ASN:O	9:OH:62:ARG:NH2	2.40	0.52
9:OH:193:VAL:HG22	9:OH:265:PHE:HZ	1.74	0.52
8:OI:207:GLU:HA	8:OI:210:TYR:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OL:362:LYS:HG2	9:OL:363:MET:HG3	1.91	0.52
8:PC:262:TYR:HD2	8:PC:265:ILE:HD13	1.75	0.52
8:PE:238:ILE:HD11	8:PE:378:LEU:HD21	1.92	0.52
8:PI:213:CYS:HA	8:PI:217:LEU:HD23	1.91	0.52
8:PK:140:SER:OG	67:PK:501:GTP:O2B	2.25	0.52
53:Q:41:THR:O	53:Q:51:GLN:NE2	2.43	0.52
9:QD:33:THR:O	9:QD:58:LYS:NZ	2.40	0.52
9:QF:42:LEU:HD12	9:QF:43:GLN:HG3	1.91	0.52
8:QG:401:LYS:HD3	8:QG:405:VAL:HB	1.91	0.52
8:QK:234:ILE:HD11	8:QK:272:TYR:HB2	1.91	0.52
9:RB:169:VAL:HA	9:RB:202:ILE:HG22	1.90	0.52
9:RD:272:PRO:HG3	9:RD:364:SER:HA	1.91	0.52
8:RG:1:MET:SD	8:RG:131:GLY:N	2.77	0.52
8:RG:319:TYR:HB3	8:RG:323:VAL:HG21	1.92	0.52
8:SG:64:ARG:HG2	8:SG:125:LEU:HD22	1.92	0.52
8:TM:69:ASP:OD2	8:TM:70:LEU:N	2.43	0.52
9:UF:74:ASP:OD1	9:UF:74:ASP:N	2.41	0.52
9:UF:118:ASP:HA	9:UF:121:ARG:HG2	1.91	0.52
8:UG:212:ILE:HD11	8:UG:300:ASN:HA	1.92	0.52
9:UN:318:ARG:HG2	9:UN:358:PRO:HD3	1.92	0.52
9:VF:238:THR:HG21	9:VF:318:ARG:HD2	1.92	0.52
9:WF:260:PHE:HB2	9:WF:263:LEU:HD13	1.92	0.52
9:WF:362:LYS:NZ	9:WF:363:MET:SD	2.83	0.52
8:WG:9:VAL:HB	8:WG:139:HIS:HB3	1.92	0.52
9:WJ:178:THR:HB	9:WJ:181:GLU:HG3	1.91	0.52
56:XJ:72:LYS:HD3	57:YI:78:ARG:HB3	1.91	0.52
60:e:77:LYS:O	60:e:77:LYS:NZ	2.32	0.52
60:g:124:PRO:HD3	60:g:169:PHE:CD2	2.45	0.52
66:u:286:TRP:HA	66:u:289:GLN:HG2	1.92	0.52
3:x:119:ILE:HD11	3:x:142:LEU:HD21	1.92	0.52
2:0Y:82:GLN:OE1	2:0Y:102:LYS:NZ	2.43	0.52
4:3:1340:PRO:HD2	4:3:1343:GLU:OE2	2.10	0.52
7:A1:125:SER:HA	9:PF:306:ARG:HH22	1.74	0.52
8:AE:188:ILE:HG21	8:AE:395:LEU:HD13	1.91	0.52
8:AE:274:PRO:HG2	8:AE:374:ALA:HA	1.92	0.52
9:AF:140:GLY:O	9:AF:184:ASN:ND2	2.43	0.52
9:AJ:237:THR:O	9:AJ:241:ARG:HD3	2.10	0.52
8:AM:43:GLY:O	13:Aa:93:TYR:OH	2.22	0.52
11:AT:82:ARG:NH2	30:CW:369:GLU:OE2	2.43	0.52
12:AV:360:LEU:HB2	12:AV:363:ASP:HB2	1.91	0.52
13:Aa:270:LEU:HD11	13:Aa:332:VAL:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ac:250:GLU:HG2	13:Ac:252:LEU:HD22	1.92	0.52
13:Ac:279:TYR:OH	38:Dg:8:GLY:O	2.27	0.52
9:BD:184:ASN:OD1	9:BD:398:TYR:OH	2.23	0.52
8:BI:152:LEU:HA	8:BI:155:GLU:HG2	1.92	0.52
8:BI:257:THR:HG1	9:BJ:397:TRP:CD1	2.27	0.52
8:BM:223:THR:OG1	8:BM:226:ASN:OD1	2.26	0.52
28:C8:111:ASN:OD1	28:C8:114:ARG:NH2	2.42	0.52
28:C9:217:LYS:HA	44:ET:26:LEU:HD21	1.92	0.52
8:CC:322:ASP:OD2	8:CC:372:GLN:NE2	2.43	0.52
8:CK:203:MET:HG3	8:CK:384:ILE:HD11	1.92	0.52
29:D1:353:GLU:HG2	29:D1:465:LEU:HG	1.92	0.52
9:DF:312:THR:HA	9:DF:348:ASN:HB3	1.92	0.52
9:DH:207:LEU:HD13	9:DH:225:LEU:HB3	1.91	0.52
9:DJ:304:ASP:HB3	9:DJ:373:ALA:HB1	1.91	0.52
8:EE:425:LEU:HD13	8:EE:428:LEU:HD23	1.91	0.52
44:EU:408:THR:OG1	44:EV:70:ASP:OD2	2.27	0.52
44:EW:32:ASN:ND2	44:EW:37:THR:OG1	2.38	0.52
8:FE:257:THR:HG21	9:FF:99:ASN:HB2	1.91	0.52
8:FI:109:THR:OG1	8:FI:110:ILE:N	2.42	0.52
8:FI:319:TYR:HB3	8:FI:323:VAL:HG21	1.92	0.52
8:GC:145:THR:OG1	67:GC:501:GTP:O1G	2.28	0.52
8:HI:176:GLN:NE2	8:HI:207:GLU:OE2	2.43	0.52
9:HL:290:THR:HG21	9:HL:329:GLN:HB3	1.92	0.52
8:HM:175:PRO:HB3	8:HM:390:ARG:HD3	1.92	0.52
9:IL:196:THR:OG1	9:IL:264:HIS:NE2	2.39	0.52
8:IM:71:GLU:HB3	8:IM:98:ASP:HB3	1.91	0.52
9:JD:73:MET:HE3	9:JD:90:PHE:HD1	1.74	0.52
8:KK:116:ASP:OD1	8:KK:116:ASP:N	2.42	0.52
8:LC:264:ARG:HG3	8:LC:428:LEU:HD13	1.92	0.52
9:LN:139:LEU:HD12	9:LN:170:VAL:HG12	1.90	0.52
8:MI:346:TRP:HE1	9:MJ:391:ARG:NH1	2.08	0.52
9:N0:98:GLY:HA3	9:N0:103:LYS:HD2	1.91	0.52
8:NC:7:ILE:HB	8:NC:137:ILE:HD13	1.90	0.52
8:NC:105:ARG:NH1	8:NC:109:THR:HG21	2.24	0.52
9:OB:248:ALA:HA	9:OB:252:LYS:HE3	1.92	0.52
8:OC:327:ASP:HA	8:OC:330:ALA:HB3	1.92	0.52
8:PC:5:ILE:HD12	8:PC:125:LEU:HD13	1.91	0.52
8:PE:392:ASP:OD1	8:PE:422:ARG:NH2	2.41	0.52
9:PL:49:VAL:HG21	9:PL:240:LEU:HB3	1.91	0.52
9:QH:69:GLU:HG2	9:QH:71:GLY:H	1.75	0.52
8:RC:54:SER:OG	8:RC:55:GLU:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RF:299:MET:SD	9:RF:299:MET:N	2.83	0.52
9:RH:21:TRP:CZ3	9:RH:61:PRO:HB3	2.45	0.52
9:RJ:272:PRO:HG3	9:RJ:364:SER:HA	1.91	0.52
9:RJ:364:SER:OG	9:RJ:365:ALA:N	2.43	0.52
8:RM:107:HIS:O	8:RM:112:LYS:NZ	2.42	0.52
9:SB:346:PRO:HD2	8:SC:398:MET:HE3	1.92	0.52
8:SE:33:ASP:OD1	8:SE:33:ASP:N	2.37	0.52
8:SI:211:ASP:OD2	8:SI:304:LYS:NZ	2.39	0.52
8:SK:26:LEU:HD23	8:SK:363:VAL:HG22	1.92	0.52
54:T:231:MET:SD	54:T:231:MET:N	2.74	0.52
9:TF:27:GLU:OE2	9:TF:241:ARG:NH1	2.38	0.52
9:TL:272:PRO:HG3	9:TL:364:SER:HA	1.92	0.52
9:TL:410:GLU:N	9:TL:410:GLU:OE1	2.43	0.52
9:UH:218:THR:HG23	9:UH:219:THR:HG23	1.91	0.52
8:UK:372:GLN:N	8:UK:372:GLN:OE1	2.42	0.52
9:VB:326:VAL:O	9:VB:330:MET:HG2	2.09	0.52
8:VC:276:ILE:HD13	8:VC:281:ALA:HB2	1.91	0.52
8:VG:71:GLU:HB2	8:VG:98:ASP:HB3	1.92	0.52
9:VJ:128:ASP:OD1	9:VJ:128:ASP:N	2.42	0.52
8:VM:11:GLN:OE1	8:VM:11:GLN:N	2.42	0.52
8:WC:99:ALA:HA	8:WC:105:ARG:HG2	1.92	0.52
3:x:243:LEU:HD11	3:x:265:GLY:HA3	1.92	0.52
2:0A:9:LEU:HD13	2:0A:149:MET:HE2	1.92	0.52
9:AB:37:HIS:NE2	14:Bb:252:GLN:OE1	2.42	0.52
9:AD:178:THR:HB	9:AD:181:GLU:HG3	1.92	0.52
9:AD:419:VAL:HG12	9:AD:423:GLN:NE2	2.24	0.52
10:AS:35:HIS:NE2	9:KD:383:GLU:OE1	2.43	0.52
13:Ab:459:SER:OG	13:Ab:460:GLY:N	2.42	0.52
8:BA:395:LEU:HD22	8:BA:422:ARG:HD3	1.91	0.52
8:BC:206:ASN:OD1	67:BC:501:GTP:O2'	2.27	0.52
9:BF:3:GLU:OE1	9:BF:62:ARG:NH2	2.43	0.52
20:BS:310:ARG:NH1	32:Cn:219:ASP:OD2	2.42	0.52
14:BY:298:ALA:HB2	8:CI:223:THR:HG23	1.92	0.52
14:Bc:226:VAL:HG13	14:Bc:245:MET:HE3	1.92	0.52
28:C2:139:GLN:NE2	28:C2:276:ASN:OD1	2.34	0.52
9:CB:359:ARG:HD2	38:Dh:12:VAL:HG21	1.92	0.52
9:CD:63:ALA:O	9:CD:89:ASN:ND2	2.43	0.52
9:CH:299:MET:HG3	9:CH:301:ALA:HB2	1.91	0.52
2:CX:10:ARG:HE	2:CX:14:GLN:HE22	1.57	0.52
2:CZ:104:LEU:HD11	2:CZ:114:LEU:HD11	1.92	0.52
2:Cj:15:LYS:O	2:Cj:19:PHE:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Cv:186:ASP:OD1	33:Cw:321:ARG:NH1	2.42	0.52
33:Cx:27:ASN:O	33:Cx:31:GLN:HG2	2.10	0.52
37:De:198:TYR:HB3	46:H:583:LYS:HE3	1.91	0.52
37:De:253:ASN:HD22	9:UN:212:PHE:HE2	1.58	0.52
41:Dn:206:ARG:HG3	41:Dn:209:LEU:HD12	1.92	0.52
43:E1:116:THR:OG1	43:E1:117:ALA:N	2.43	0.52
9:EH:113:VAL:HG11	9:EH:150:LEU:HD23	1.91	0.52
9:GL:73:MET:O	9:GL:77:ARG:HG2	2.09	0.52
8:HG:255:PHE:HZ	8:HG:318:LEU:HD21	1.74	0.52
9:IF:68:LEU:HD12	9:IF:97:ALA:HB2	1.92	0.52
9:IL:87:PRO:HG2	8:JK:280:LYS:HB3	1.91	0.52
9:JB:342:VAL:HG23	9:JB:345:ILE:HG22	1.91	0.52
9:JF:116:VAL:HG11	9:JF:151:LEU:HD11	1.91	0.52
9:KD:198:GLU:HG2	9:KD:266:PHE:HE2	1.74	0.52
9:KF:290:THR:HG21	9:KF:329:GLN:HB3	1.92	0.52
8:KM:80:THR:O	8:KM:84:ARG:NH1	2.43	0.52
9:KN:165:ASN:HD21	9:KN:250:LEU:HD22	1.74	0.52
9:LN:190:HIS:NE2	9:LN:410:GLU:OE1	2.43	0.52
9:MD:215:LEU:HB3	9:MD:217:LEU:HD13	1.92	0.52
9:N0:266:PHE:CE1	9:N0:370:ASN:HB2	2.44	0.52
8:NE:32:PRO:O	8:NE:86:LEU:HB2	2.09	0.52
9:O0:375:GLN:NE2	9:O0:423:GLN:OE1	2.42	0.52
8:OE:363:VAL:HG23	8:OE:366:GLY:HA3	1.92	0.52
8:OI:203:MET:HG3	8:OI:384:ILE:HD11	1.92	0.52
9:OJ:292:GLN:O	9:OJ:298:ASN:ND2	2.43	0.52
9:OL:39:ASP:OD1	9:OL:39:ASP:N	2.42	0.52
9:PL:116:VAL:HG11	9:PL:151:LEU:HD21	1.92	0.52
9:QB:136:THR:HG22	9:QB:167:PHE:HB2	1.92	0.52
9:QB:161:ASP:OD1	9:QB:162:ARG:NH1	2.38	0.52
9:QD:219:THR:O	9:QD:219:THR:OG1	2.24	0.52
9:QD:238:THR:O	9:QD:242:PHE:N	2.39	0.52
9:QD:303:CYS:HB2	9:QD:373:ALA:HB1	1.92	0.52
9:QF:4:ILE:HG12	9:QF:49:VAL:HG22	1.91	0.52
9:QF:156:ARG:NH2	9:QF:197:ASP:OD2	2.43	0.52
9:QH:6:HIS:NE2	9:QH:8:GLN:OE1	2.43	0.52
9:QH:83:GLN:O	9:RH:281:TYR:OH	2.19	0.52
9:QL:213:ARG:HH12	9:QL:297:LYS:HB3	1.75	0.52
8:RA:218:ASP:OD1	8:RA:218:ASP:N	2.42	0.52
9:RD:184:ASN:O	9:RD:188:SER:OG	2.26	0.52
8:RE:136:LEU:HD12	8:RE:138:PHE:HE1	1.74	0.52
8:RE:271:THR:HG21	8:RE:295:CYS:HB3	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RF:180:VAL:O	9:RF:184:ASN:ND2	2.43	0.52
8:RI:274:PRO:HG3	8:RI:291:ILE:HD11	1.92	0.52
9:RJ:40:SER:OG	9:RJ:43:GLN:OE1	2.19	0.52
9:RL:139:LEU:HD21	9:RL:168:SER:HB2	1.92	0.52
9:SH:117:LEU:HB3	9:SH:121:ARG:NH1	2.25	0.52
8:SI:119:LEU:HD11	8:SI:157:LEU:HD13	1.92	0.52
9:SJ:251:ARG:HB3	8:SK:100:ALA:HB2	1.92	0.52
8:SM:315:CYS:HB3	8:SM:351:PHE:HB3	1.92	0.52
9:TF:313:VAL:HB	9:TF:349:VAL:HG22	1.92	0.52
9:TL:161:ASP:OD1	9:TL:161:ASP:N	2.41	0.52
9:UB:36:TYR:O	9:UB:37:HIS:ND1	2.42	0.52
9:UB:113:VAL:HA	9:UB:116:VAL:HG22	1.92	0.52
8:UM:238:ILE:HD11	8:UM:378:LEU:HD11	1.91	0.52
8:VE:31:GLN:HG3	8:VE:32:PRO:HD2	1.92	0.52
9:VF:259:PRO:HB2	8:VG:403:ALA:HB1	1.92	0.52
9:VJ:192:LEU:HD22	9:VJ:196:THR:HG21	1.92	0.52
8:VK:104:ALA:HB1	8:VK:411:GLU:HB2	1.92	0.52
9:VL:8:GLN:HE22	9:VL:17:GLY:HA3	1.75	0.52
9:VL:101:TRP:CZ3	9:VL:403:MET:HE1	2.45	0.52
8:VM:297:GLU:HG3	8:VM:299:ALA:H	1.74	0.52
9:WB:8:GLN:HB2	9:WB:65:LEU:HA	1.92	0.52
9:WF:290:THR:HG21	9:WF:329:GLN:HB3	1.92	0.52
8:WI:129:CYS:O	57:YI:87:HIS:NE2	2.42	0.52
9:WJ:248:ALA:HA	9:WJ:252:LYS:HE3	1.92	0.52
9:WL:295:ASP:OD2	9:WL:296:ALA:N	2.43	0.52
56:XH:81:LYS:HB3	56:XH:161:ARG:HB2	1.92	0.52
56:XI:105:ALA:HB2	56:XI:121:MET:HE3	1.92	0.52
8:AG:71:GLU:HG3	8:AG:73:THR:H	1.75	0.51
12:AV:128:LEU:HD13	12:AV:132:GLU:HB2	1.92	0.51
13:Aa:652:ARG:HH12	9:EL:44:LEU:HD22	1.74	0.51
13:Ab:321:ASP:OD1	13:Ab:321:ASP:N	2.35	0.51
15:Ar:159:PRO:HD3	38:Dh:72:LYS:NZ	2.25	0.51
7:Av:163:ILE:O	9:OJ:306:ARG:NH2	2.43	0.51
18:B5:214:PHE:CD2	18:B5:237:MET:HE1	2.45	0.51
9:BB:20:PHE:HD2	9:BB:233:MET:HE3	1.74	0.51
9:BB:189:VAL:HA	9:BB:192:LEU:HB2	1.91	0.51
9:BF:232:THR:HG21	9:BF:268:PRO:HB2	1.92	0.51
21:BV:188:ARG:HD2	9:LH:279:GLN:HE21	1.75	0.51
25:Bo:106:UNK:C	9:PD:320:ARG:HH12	2.23	0.51
8:CI:209:ILE:HA	8:CI:212:ILE:HG12	1.91	0.51
8:CM:139:HIS:NE2	8:CM:168:GLU:OE1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CM:267:PHE:HB3	8:CM:384:ILE:HD13	1.92	0.51
32:Cm:311:LYS:HB3	32:Co:198:ILE:HG22	1.91	0.51
29:D0:405:ARG:HB2	29:D0:410:LEU:HD12	1.92	0.51
9:DB:245:GLN:O	8:DC:11:GLN:NE2	2.44	0.51
9:DF:116:VAL:HG21	9:DF:151:LEU:HD21	1.91	0.51
8:DM:56:THR:HG23	8:DM:58:ALA:H	1.74	0.51
29:DW:123:SER:O	29:DW:127:MET:HG3	2.10	0.51
9:EB:23:VAL:HG21	9:EB:230:SER:HB3	1.92	0.51
9:EF:219:THR:O	9:EF:219:THR:OG1	2.26	0.51
29:EQ:371:ILE:HD11	29:EQ:447:LEU:HB3	1.93	0.51
9:FB:309:ARG:HG2	9:FB:426:GLN:HG3	1.92	0.51
9:FF:237:THR:HG22	9:FF:250:LEU:HD21	1.92	0.51
8:FG:175:PRO:O	8:FG:394:LYS:NZ	2.43	0.51
9:GJ:319:GLY:N	9:GJ:354:CYS:O	2.42	0.51
9:GN:116:VAL:O	9:GN:120:VAL:HG23	2.10	0.51
9:IF:170:VAL:HG11	9:IF:377:LEU:HD21	1.93	0.51
8:IO:224:TYR:HD1	8:IO:227:LEU:HD12	1.75	0.51
48:J:135:ARG:NH1	48:J:139:ASP:OD2	2.43	0.51
8:JI:50:ASN:O	8:JI:64:ARG:NH2	2.38	0.51
9:JJ:42:LEU:HD13	9:JJ:356:ILE:HD11	1.92	0.51
9:JL:311:LEU:HD23	9:JL:342:VAL:HG21	1.91	0.51
8:JM:296:PHE:CZ	8:JM:335:ILE:HG12	2.45	0.51
9:KB:331:LEU:HD11	8:KC:176:GLN:HB2	1.92	0.51
9:KH:161:ASP:OD1	9:KH:161:ASP:N	2.43	0.51
8:KO:259:LEU:HD21	8:KO:316:CYS:HB2	1.92	0.51
50:L1:22:ILE:HD12	59:a:248:ARG:HG2	1.92	0.51
50:L2:75:ARG:NH1	9:VN:48:ASN:OD1	2.44	0.51
8:LC:30:ILE:HD13	8:LC:36:MET:HE2	1.91	0.51
9:LF:31:ASP:OD2	9:LF:35:THR:OG1	2.25	0.51
9:LJ:290:THR:HG21	9:LJ:329:GLN:HB3	1.91	0.51
8:MC:102:ASN:HB3	8:MC:105:ARG:HB2	1.93	0.51
9:ML:31:ASP:OD2	9:ML:35:THR:OG1	2.27	0.51
9:N0:3:GLU:HG3	9:N0:127:CYS:HB2	1.92	0.51
9:N0:207:LEU:HA	9:N0:210:ILE:HG22	1.92	0.51
9:ND:52:ASN:N	9:ND:60:VAL:O	2.44	0.51
9:NJ:267:MET:HE1	9:NJ:371:SER:HB3	1.92	0.51
9:OB:101:TRP:HE1	9:OB:187:LEU:HD12	1.75	0.51
9:OH:238:THR:HG21	9:OH:318:ARG:HG2	1.92	0.51
9:OL:204:ASN:ND2	69:OL:501:GDP:O2'	2.43	0.51
9:PB:238:THR:HG21	9:PB:318:ARG:HD2	1.92	0.51
8:PC:199:ASP:HB3	8:PC:256:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PH:101:TRP:O	9:PH:105:HIS:HB2	2.09	0.51
9:PJ:86:ARG:HB3	9:PJ:89:ASN:HB2	1.92	0.51
9:QB:427:ASP:N	9:QB:427:ASP:OD1	2.39	0.51
8:QC:8:HIS:ND1	8:QC:66:VAL:O	2.43	0.51
8:RC:264:ARG:HH21	8:RC:428:LEU:HD21	1.74	0.51
9:RD:322:SER:HB2	8:RE:223:THR:HA	1.92	0.51
8:RG:238:ILE:HD11	8:RG:378:LEU:HD21	1.90	0.51
8:SE:324:VAL:O	8:SE:326:LYS:N	2.43	0.51
8:TM:70:LEU:HD13	8:TM:110:ILE:HD11	1.90	0.51
8:TM:76:ASP:OD1	8:TM:79:ARG:NH1	2.42	0.51
8:UI:79:ARG:NH2	8:UI:94:THR:OG1	2.43	0.51
9:UN:12:CYS:HB3	9:UN:138:SER:HB3	1.92	0.51
9:UN:203:ASP:O	9:UN:207:LEU:HD23	2.09	0.51
8:VK:56:THR:HG22	8:VK:58:ALA:H	1.75	0.51
9:WD:27:GLU:OE2	9:WD:241:ARG:NH1	2.36	0.51
8:WE:2:ARG:HH22	8:WE:47:ASP:CG	2.18	0.51
8:WE:326:LYS:NZ	9:WF:218:THR:O	2.43	0.51
47:X:335:LEU:HD22	47:X:344:ILE:HD11	1.92	0.51
56:XJ:95:ASP:OD2	56:XJ:146:THR:OG1	2.27	0.51
56:XJ:168:SER:OG	56:XJ:170:ARG:O	2.27	0.51
56:XL:81:LYS:HB3	56:XL:161:ARG:HB2	1.92	0.51
56:XM:8:SER:OG	56:XM:9:GLY:N	2.43	0.51
60:f:178:VAL:HG22	60:f:188:TRP:HE1	1.75	0.51
60:g:82:ILE:HG13	60:g:101:TYR:HE1	1.74	0.51
3:x:215:SER:HB3	3:x:223:ARG:HH22	1.75	0.51
7:A7:200:TYR:CD1	9:RB:125:GLU:HG3	2.45	0.51
8:AC:50:ASN:O	8:AC:64:ARG:NH1	2.43	0.51
9:AD:165:ASN:HB3	9:AD:167:PHE:HE1	1.75	0.51
9:AD:413:SER:HB2	57:YK:154:LYS:NZ	2.25	0.51
9:AH:156:ARG:NH2	9:AH:197:ASP:OD1	2.41	0.51
9:AH:252:LYS:HB2	8:AI:100:ALA:HA	1.92	0.51
9:AJ:86:ARG:HG2	9:AJ:88:ASP:H	1.75	0.51
12:AW:118:PHE:HD2	12:AW:163:ILE:HG23	1.76	0.51
13:Ac:639:LEU:HG	13:Ac:676:TYR:CD2	2.45	0.51
13:Ad:343:ASP:OD1	13:Ad:343:ASP:N	2.39	0.51
16:At:279:SER:O	9:FH:213:ARG:NH2	2.40	0.51
7:Az:235:VAL:O	9:PL:291:GLN:NE2	2.42	0.51
7:Az:238:PHE:O	9:PL:306:ARG:NH1	2.41	0.51
5:B:133:ASN:ND2	8:VG:77:GLU:OE2	2.43	0.51
18:B6:17:ILE:HD11	60:g:349:GLU:HB2	1.92	0.51
8:BG:320:ARG:NH2	8:BG:359:PRO:O	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BI:2:ARG:HA	8:BI:133:GLN:HE21	1.75	0.51
9:BJ:25:SER:OG	9:BJ:30:ILE:O	2.28	0.51
9:BL:68:LEU:HD12	9:BL:97:ALA:HB2	1.92	0.51
9:BL:405:GLU:OE1	9:BL:405:GLU:N	2.37	0.51
22:BW:100:ASP:OD1	22:BW:104:ASN:ND2	2.37	0.51
25:Bm:106:UNK:O	9:RD:320:ARG:NH2	2.43	0.51
27:Bs:352:LYS:HE3	8:GG:59:GLY:H	1.75	0.51
28:C9:382:ILE:HG21	28:C9:438:LEU:HB2	1.92	0.51
28:C9:386:ILE:HD13	43:E1:18:LEU:HD21	1.92	0.51
9:CD:121:ARG:NE	9:CD:158:GLU:OE2	2.42	0.51
8:CM:3:GLU:HB2	8:CM:132:LEU:HA	1.92	0.51
2:Cf:44:ILE:HG23	2:Cf:49:GLN:HG2	1.92	0.51
2:Cf:64:ARG:O	2:Cf:68:LEU:HB2	2.09	0.51
29:D3:267:ASP:OD2	29:D4:402:ARG:NH1	2.43	0.51
29:D5:282:PHE:HE1	29:D7:393:LYS:HD2	1.75	0.51
29:D6:145:LEU:HB3	29:D6:271:LEU:HD13	1.91	0.51
9:DD:6:HIS:HB3	9:DD:63:ALA:HA	1.92	0.51
9:DJ:392:LYS:HE3	9:DJ:395:LEU:HD21	1.91	0.51
8:DK:208:ALA:HB2	8:DK:304:LYS:HB2	1.92	0.51
8:DM:324:VAL:HG22	8:DM:326:LYS:H	1.75	0.51
37:De:203:ASN:ND2	9:TL:224:ASP:OD1	2.44	0.51
8:EE:254:GLU:HG2	9:EF:98:GLY:HA2	1.91	0.51
9:EF:25:SER:OG	9:EF:51:TYR:OH	2.26	0.51
9:EH:14:ASN:HB3	9:EH:76:VAL:HG11	1.92	0.51
29:EQ:383:ARG:NH2	44:EY:298:ASP:OD1	2.42	0.51
44:ET:234:GLN:NE2	47:X:54:VAL:O	2.42	0.51
44:EW:221:ALA:HA	44:EW:224:ILE:HG22	1.91	0.51
44:EX:246:LYS:HB2	44:EX:247:PHE:CD1	2.44	0.51
44:EZ:29:VAL:HB	44:EZ:31:ARG:HH21	1.75	0.51
8:FI:105:ARG:HG2	8:FI:411:GLU:OE1	2.11	0.51
9:FN:380:ARG:HA	9:FN:383:GLU:OE1	2.10	0.51
8:GC:11:GLN:HG2	8:GC:74:VAL:HG21	1.92	0.51
9:GF:404:ASP:OD1	9:GF:405:GLU:N	2.43	0.51
9:GL:170:VAL:HG21	9:GL:377:LEU:HD21	1.92	0.51
46:H:614:GLN:OE1	46:H:614:GLN:N	2.39	0.51
9:HB:6:HIS:HA	9:HB:134:GLN:HB2	1.91	0.51
8:HG:212:ILE:O	8:HG:216:ASN:HB3	2.09	0.51
9:IH:69:GLU:HG3	9:IH:71:GLY:H	1.75	0.51
9:IN:326:VAL:O	9:IN:330:MET:HG2	2.11	0.51
8:JG:71:GLU:HB3	8:JG:98:ASP:HB3	1.92	0.51
8:JG:108:TYR:HE2	8:JG:413:MET:HE2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JH:336:LYS:HD3	9:JH:336:LYS:N	2.24	0.51
8:JK:206:ASN:ND2	67:JK:501:GTP:O2'	2.43	0.51
8:LC:2:ARG:HB3	8:LC:242:LEU:HB3	1.92	0.51
9:ML:194:GLU:N	9:ML:194:GLU:OE1	2.43	0.51
9:N0:292:GLN:O	9:N0:298:ASN:ND2	2.42	0.51
9:NJ:121:ARG:O	9:NJ:125:GLU:HG3	2.10	0.51
8:OC:414:GLU:OE2	8:OC:416:GLY:N	2.28	0.51
9:OF:171:PRO:O	9:OF:380:ARG:NH2	2.43	0.51
9:OH:153:SER:HA	9:OH:195:ASN:HD21	1.74	0.51
9:PJ:202:ILE:HG23	9:PJ:300:MET:HB3	1.91	0.51
8:PK:324:VAL:HG11	9:PL:219:THR:HB	1.92	0.51
9:PL:67:ASP:HB3	9:PL:73:MET:HE1	1.91	0.51
9:PL:68:LEU:HG	9:PL:143:THR:HG23	1.93	0.51
9:PL:136:THR:HG22	9:PL:167:PHE:HB2	1.91	0.51
8:PM:79:ARG:O	8:PM:84:ARG:NE	2.37	0.51
53:Q:65:ASN:ND2	53:Q:81:ASN:OD1	2.43	0.51
9:QD:203:ASP:HB3	9:QD:301:ALA:HA	1.92	0.51
8:QE:9:VAL:HG23	8:QE:139:HIS:HA	1.91	0.51
8:QG:56:THR:OG1	8:QG:57:GLY:N	2.43	0.51
9:QH:11:GLN:NE2	69:QH:501:GDP:O1A	2.43	0.51
8:QI:90:GLU:CD	8:RI:280:LYS:HZ1	2.18	0.51
8:QM:313:MET:SD	8:QM:314:ALA:N	2.83	0.51
9:RB:156:ARG:NH1	9:RB:196:THR:HA	2.26	0.51
8:RG:31:GLN:HG2	8:RG:37:PRO:HD3	1.91	0.51
9:RH:91:VAL:HG21	9:RH:116:VAL:HG22	1.91	0.51
8:RK:259:LEU:HD21	8:RK:316:CYS:HB2	1.92	0.51
9:SF:67:ASP:OD1	9:SF:69:GLU:N	2.31	0.51
9:SJ:101:TRP:HE1	9:SJ:188:SER:HB3	1.75	0.51
9:UD:272:PRO:HG3	9:UD:364:SER:HA	1.90	0.51
8:UI:325:PRO:O	8:UI:329:ASN:ND2	2.43	0.51
8:UM:227:LEU:HD22	67:UM:501:GTP:HN21	1.76	0.51
9:VD:252:LYS:HA	9:VD:255:VAL:HG22	1.92	0.51
9:VF:172:SER:OG	9:VF:175:VAL:O	2.26	0.51
9:VH:246:LEU:HA	8:VI:11:GLN:HE22	1.75	0.51
8:VI:223:THR:OG1	8:VI:224:TYR:N	2.43	0.51
9:VJ:83:GLN:O	9:WJ:281:TYR:OH	2.25	0.51
9:WB:267:MET:HB2	9:WB:374:ILE:HD11	1.93	0.51
8:WG:237:SER:OG	8:WG:376:CYS:SG	2.62	0.51
47:X:289:PRO:HG2	47:X:290:LEU:HD12	1.92	0.51
47:X:302:VAL:HG12	47:X:321:LEU:HD13	1.92	0.51
56:XH:30:ARG:HB3	56:XH:56:THR:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:YG:253:SER:OG	57:YG:254:CYS:N	2.43	0.51
60:g:458:GLU:OE1	60:g:459:ALA:N	2.41	0.51
2:0Y:106:SER:OG	2:0Y:107:GLN:N	2.41	0.51
2:0c:114:LEU:HD11	2:0c:144:ILE:HD12	1.92	0.51
2:0g:41:ILE:HB	2:0g:42:ARG:HH11	1.75	0.51
2:0k:54:MET:HE1	2:0k:68:LEU:HA	1.91	0.51
3:1:60:GLU:HA	3:1:63:ILE:HD12	1.92	0.51
7:A4:164:LYS:HA	9:RL:306:ARG:HH21	1.74	0.51
7:A5:55:GLY:N	9:RF:295:ASP:OD1	2.43	0.51
8:AI:402:ARG:NH2	56:XI:52:THR:O	2.43	0.51
8:AK:286:LEU:O	8:AK:373:ARG:NE	2.43	0.51
8:AK:439:SER:OG	9:AL:391:ARG:NH1	2.44	0.51
9:AL:227:HIS:NE2	20:BT:214:ASN:OD1	2.43	0.51
13:Aa:316:GLN:N	13:Aa:316:GLN:NE2	2.47	0.51
13:Ab:479:VAL:HG12	13:Ab:480:PHE:CD2	2.46	0.51
9:BD:42:LEU:HD11	14:BZ:274:ASN:HB2	1.91	0.51
8:BG:352:LYS:NZ	8:BG:353:VAL:O	2.40	0.51
8:BK:262:TYR:HB2	8:BK:265:ILE:HD12	1.93	0.51
19:BR:163:ARG:HG3	54:S:284:PRO:HB2	1.92	0.51
21:BV:139:GLN:OE1	9:LJ:279:GLN:NE2	2.36	0.51
8:CA:294:ALA:O	8:CA:300:ASN:ND2	2.43	0.51
9:CB:21:TRP:HA	9:CB:24:ILE:HG22	1.90	0.51
8:CC:17:GLY:HA2	8:CC:20:CYS:HB3	1.92	0.51
9:CH:293:MET:HG2	9:CH:367:PHE:HB2	1.92	0.51
9:CJ:309:ARG:NH1	9:CJ:341:PHE:O	2.44	0.51
9:CL:204:ASN:ND2	69:CL:501:GDP:N3	2.55	0.51
2:CX:127:SER:O	8:RE:85:GLN:NE2	2.44	0.51
2:Cg:133:ASN:O	2:Cg:134:HIS:ND1	2.43	0.51
2:Ci:66:ILE:HD12	2:Ci:69:MET:HE3	1.92	0.51
2:Ck:103:THR:HG1	2:Ck:109:ASN:HD21	1.52	0.51
32:Cn:97:ARG:HH21	32:Cn:246:LEU:HD13	1.75	0.51
33:Cs:169:ARG:HG2	33:Cs:173:ASN:ND2	2.26	0.51
33:Ct:261:THR:OG1	33:Ct:394:ARG:NH2	2.44	0.51
34:D:101:TYR:HE1	8:GK:229:ARG:HH21	1.57	0.51
8:DC:21:TRP:HA	8:DC:24:TYR:HB2	1.93	0.51
9:DH:394:PHE:HA	9:DH:397:TRP:NE1	2.25	0.51
29:DV:159:LEU:HD23	29:DV:307:ILE:HD11	1.92	0.51
37:De:206:GLN:HG3	9:TL:276:ARG:NH2	2.22	0.51
39:Dl:123:VAL:HA	39:Dl:126:HIS:HB2	1.93	0.51
42:E:721:PRO:HG2	42:E:726:LYS:NZ	2.25	0.51
29:EA:388:LYS:NZ	29:EP:131:ASP:OD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EC:217:LEU:HB3	8:EC:219:ILE:HG22	1.92	0.51
9:EH:282:ARG:NH1	9:EH:292:GLN:OE1	2.42	0.51
8:EI:278:ALA:HA	8:EI:369:ALA:HB2	1.92	0.51
8:EK:141:PHE:HB2	8:EK:173:PRO:HD3	1.91	0.51
9:EL:275:SER:HB2	9:EL:278:SER:HB2	1.93	0.51
29:EQ:343:ASN:OD1	29:EQ:476:ARG:NH2	2.42	0.51
44:ET:131:LEU:HD11	44:ET:278:LEU:HD23	1.92	0.51
44:EX:131:LEU:HD23	44:EX:201:ILE:HG13	1.92	0.51
28:F6:275:ARG:O	28:F6:278:SER:OG	2.21	0.51
9:FJ:322:SER:OG	8:FK:222:PRO:O	2.28	0.51
9:FL:55:THR:HG23	9:GL:283:ALA:HA	1.93	0.51
8:FM:17:GLY:HA2	8:FM:20:CYS:HB2	1.93	0.51
8:GE:188:ILE:HD12	8:GE:395:LEU:HD13	1.93	0.51
9:GL:280:GLN:N	9:GL:280:GLN:OE1	2.43	0.51
8:HI:311:LYS:H	8:HI:382:THR:HB	1.74	0.51
9:IF:208:TYR:O	9:IF:212:PHE:HB2	2.10	0.51
9:JB:309:ARG:HD2	9:JB:342:VAL:HG12	1.92	0.51
8:JE:255:PHE:HZ	8:JE:318:LEU:HD11	1.74	0.51
50:L1:70:LEU:HD13	50:L1:76:GLU:HA	1.91	0.51
8:LI:313:MET:HB2	8:LI:380:ASN:HB3	1.92	0.51
9:MF:325:GLU:OE1	8:MG:221:ARG:NE	2.44	0.51
9:MJ:346:PRO:HG3	8:MK:394:LYS:HG2	1.92	0.51
8:MM:45:GLY:HA3	1:V:186:ARG:HH11	1.76	0.51
9:ND:237:THR:HB	9:ND:240:LEU:HD12	1.93	0.51
9:NJ:339:SER:OG	58:Z:155:THR:O	2.27	0.51
9:OD:234:SER:O	9:OD:241:ARG:NH2	2.42	0.51
9:OF:202:ILE:HG23	9:OF:300:MET:HB3	1.92	0.51
9:PD:250:LEU:HA	9:PD:253:LEU:HD12	1.92	0.51
8:PK:267:PHE:HB3	8:PK:384:ILE:HD13	1.92	0.51
9:PL:161:ASP:OD2	9:PL:162:ARG:NH1	2.44	0.51
9:QB:237:THR:OG1	9:QB:241:ARG:NH1	2.44	0.51
8:QC:19:ALA:HB1	8:QC:229:ARG:HD2	1.91	0.51
8:RC:191:THR:HA	8:RC:194:THR:HG22	1.93	0.51
9:RF:247:ASN:ND2	8:RG:71:GLU:OE2	2.43	0.51
8:RI:217:LEU:HB2	8:RI:219:ILE:HG22	1.91	0.51
9:SD:49:VAL:HG11	9:SD:241:ARG:HB3	1.92	0.51
8:SM:98:ASP:O	8:SM:105:ARG:NH2	2.41	0.51
9:TB:330:MET:HE1	9:TB:351:THR:HB	1.92	0.51
9:TJ:135:LEU:HD13	9:TJ:152:ILE:HD11	1.92	0.51
8:UC:27:GLU:OE2	8:UC:243:ARG:NH1	2.44	0.51
9:UJ:412:GLU:O	9:UJ:416:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UK:206:ASN:OD1	67:UK:501:GTP:N2	2.43	0.51
8:UM:158:SER:HB2	8:UM:166:LYS:NZ	2.25	0.51
9:UN:2:ARG:HH11	9:UN:240:LEU:HD12	1.74	0.51
8:VE:345:ASP:OD1	8:VE:345:ASP:N	2.43	0.51
8:VI:102:ASN:OD1	8:VI:104:ALA:N	2.43	0.51
8:WE:98:ASP:OD1	8:WE:98:ASP:N	2.42	0.51
56:XG:92:GLN:HE21	56:XG:152:LEU:HD23	1.76	0.51
2:0E:80:LEU:HG	2:0E:84:PHE:CZ	2.45	0.51
3:2:63:ILE:HG23	3:2:131:LEU:HD13	1.92	0.51
8:AK:251:ASP:H	8:AK:254:GLU:HG3	1.75	0.51
8:AM:130:THR:OG1	8:AM:131:GLY:N	2.43	0.51
10:AP:9:GLN:O	9:KH:297:LYS:NZ	2.43	0.51
7:Av:235:VAL:HG23	9:OF:332:ASN:HB3	1.91	0.51
7:Aw:54:ARG:NH1	9:ND:118:ASP:OD2	2.43	0.51
14:B7:239:ASP:OD1	14:B7:239:ASP:N	2.43	0.51
19:BP:83:THR:HA	19:BP:101:LYS:H	1.74	0.51
27:Bs:423:ASP:OD2	31:Cl:364:ARG:NH2	2.40	0.51
26:Bu:202:LEU:HD11	9:KD:359:ARG:HA	1.92	0.51
28:C0:403:ARG:HH12	28:C0:417:GLN:HG2	1.76	0.51
28:C2:362:GLN:HG3	28:C2:459:LEU:HD11	1.92	0.51
28:C2:467:TYR:CZ	32:Cn:384:TYR:HB2	2.46	0.51
8:CG:236:SER:O	8:CG:243:ARG:NH2	2.44	0.51
2:CX:104:LEU:HD21	2:CX:114:LEU:HD21	1.93	0.51
2:Ck:126:LEU:O	8:SE:85:GLN:NE2	2.44	0.51
33:Cq:318:LEU:HB3	33:Cs:205:PRO:HB2	1.91	0.51
33:Ct:219:ASP:OD2	33:Ct:223:ARG:NH2	2.43	0.51
8:DC:243:ARG:HB2	8:DC:244:PHE:CD1	2.45	0.51
8:DK:269:LEU:HD21	8:DK:384:ILE:HD11	1.93	0.51
8:DM:196:GLU:OE2	8:DM:264:ARG:NH2	2.39	0.51
29:DX:184:ALA:HB1	29:DX:233:ARG:NH1	2.25	0.51
39:Dk:119:TYR:OH	8:MI:163:LYS:NZ	2.40	0.51
8:EC:226:ASN:HA	8:EC:229:ARG:HD3	1.91	0.51
9:ED:131:GLN:HA	9:ED:162:ARG:HH21	1.75	0.51
8:EM:310:GLY:HA3	8:EM:383:ALA:HB2	1.91	0.51
44:EX:88:THR:HB	44:EY:346:LYS:HZ1	1.76	0.51
8:FE:182:VAL:HG23	8:FE:404:PHE:HD2	1.75	0.51
9:FN:211:CYS:HA	9:FN:215:LEU:HB2	1.92	0.51
8:GC:16:ILE:O	8:GC:20:CYS:HB2	2.10	0.51
9:GF:117:LEU:HD11	9:GF:154:LYS:HB3	1.91	0.51
9:HD:49:VAL:HG11	9:HD:241:ARG:HG2	1.93	0.51
8:IE:109:THR:HG21	8:IE:411:GLU:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IF:216:LYS:HB2	9:IF:275:SER:HB2	1.91	0.51
9:IF:322:SER:OG	9:IF:323:MET:N	2.43	0.51
9:IH:10:GLY:O	9:IH:14:ASN:HB2	2.10	0.51
9:JD:170:VAL:HG21	9:JD:377:LEU:HD11	1.92	0.51
8:JE:172:TYR:HD2	8:JE:203:MET:HE3	1.75	0.51
8:JG:136:LEU:HD12	8:JG:169:PHE:HE1	1.76	0.51
9:JJ:91:VAL:HG12	9:JJ:112:LEU:HD11	1.92	0.51
9:JL:237:THR:HG23	9:JL:240:LEU:HD12	1.92	0.51
8:KC:259:LEU:HD21	8:KC:316:CYS:HB2	1.92	0.51
9:KD:139:LEU:HD22	9:KD:170:VAL:HG12	1.92	0.51
8:KG:63:PRO:O	8:KG:91:GLN:NE2	2.44	0.51
48:L:104:PRO:HB2	48:L:126:TYR:HE2	1.76	0.51
9:LL:385:PHE:HZ	9:LL:408:PHE:HB3	1.76	0.51
9:MD:209:ASP:OD1	9:MD:213:ARG:NH2	2.43	0.51
9:MN:193:VAL:HG23	9:MN:194:GLU:HG3	1.93	0.51
9:ND:30:ILE:HD13	9:ND:51:TYR:HE2	1.75	0.51
8:NG:60:LYS:NZ	8:NG:85:GLN:O	2.42	0.51
9:NH:251:ARG:HH21	8:NI:105:ARG:NH2	2.08	0.51
9:OB:204:ASN:HA	9:OB:207:LEU:HD12	1.92	0.51
9:OF:247:ASN:HD22	8:OG:73:THR:HG23	1.75	0.51
9:PB:337:ASN:HB3	9:PB:340:TYR:HD2	1.74	0.51
8:PC:75:VAL:HG13	8:PC:92:LEU:HD12	1.91	0.51
8:PC:402:ARG:NH2	8:PC:415:GLU:OE2	2.43	0.51
9:PL:80:PRO:HD2	9:PL:81:PHE:N	2.26	0.51
9:QB:8:GLN:OE1	9:QB:136:THR:OG1	2.27	0.51
8:QM:76:ASP:HA	8:QM:79:ARG:HE	1.76	0.51
8:RC:202:PHE:CE2	8:RC:270:ALA:HB2	2.46	0.51
8:RI:115:VAL:HG11	8:RI:152:LEU:HD22	1.91	0.51
9:RL:91:VAL:HG21	9:RL:116:VAL:HG22	1.91	0.51
9:RL:253:LEU:HD13	9:RL:368:ILE:HD12	1.92	0.51
8:SE:260:VAL:HG11	8:SE:266:HIS:HA	1.93	0.51
9:SF:109:GLY:HA2	9:SF:147:MET:HE2	1.91	0.51
8:SM:213:CYS:HA	8:SM:217:LEU:HB2	1.92	0.51
9:TB:224:ASP:OD1	9:TB:224:ASP:N	2.40	0.51
9:TL:137:HIS:HE1	9:TL:148:GLY:HA3	1.74	0.51
9:TL:299:MET:HE3	9:TL:300:MET:N	2.25	0.51
8:UG:277:SER:OG	8:UG:278:ALA:N	2.42	0.51
9:UL:318:ARG:HG2	9:UL:358:PRO:HD3	1.91	0.51
8:UM:255:PHE:HZ	8:UM:318:LEU:HD21	1.75	0.51
9:UN:39:ASP:N	9:UN:39:ASP:OD2	2.44	0.51
9:VB:8:GLN:OE1	9:VB:136:THR:OG1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VJ:403:MET:SD	9:VJ:403:MET:N	2.82	0.51
9:VN:165:ASN:OD1	9:VN:165:ASN:N	2.43	0.51
9:WB:248:ALA:HA	9:WB:252:LYS:HE3	1.92	0.51
9:WL:327:ASP:HB3	8:WM:177:VAL:HG21	1.91	0.51
56:XG:130:ASN:OD1	56:XG:130:ASN:N	2.43	0.51
3:x:197:SER:HA	3:x:200:VAL:HG12	1.91	0.51
7:A2:18:PRO:HA	7:A2:22:LEU:HD12	1.93	0.51
7:A8:219:GLY:O	8:SG:123:ARG:NH1	2.43	0.51
8:AI:250:VAL:HG23	8:AI:254:GLU:HB2	1.93	0.51
12:AV:20:LEU:HD21	12:AV:22:ARG:NH2	2.26	0.51
18:B6:151:LYS:HG3	18:B6:153:ASP:H	1.74	0.51
8:BA:386:GLU:OE2	8:BA:386:GLU:N	2.44	0.51
8:BM:70:LEU:HD12	8:BM:99:ALA:HB2	1.92	0.51
14:Ba:68:PHE:HA	29:EO:344:LEU:HD11	1.93	0.51
25:Bo:154:UNK:O	8:PG:358:GLN:NE2	2.38	0.51
9:CB:48:ASN:OD1	9:CB:48:ASN:N	2.43	0.51
8:CC:64:ARG:NH1	8:CC:129:CYS:SG	2.83	0.51
9:CD:330:MET:SD	9:CD:351:THR:OG1	2.68	0.51
8:CG:189:LEU:HD11	8:CG:418:PHE:HE1	1.76	0.51
2:CU:130:GLU:HA	2:CU:134:HIS:HD2	1.74	0.51
33:Cs:86:ASP:OD1	43:E4:107:SER:OG	2.26	0.51
29:D4:132:GLN:HE21	29:D8:154:PHE:HD1	1.58	0.51
29:D8:215:GLU:OE1	29:D9:92:ARG:NH1	2.43	0.51
8:DA:19:ALA:HB1	8:DA:229:ARG:HE	1.76	0.51
9:DB:245:GLN:HB2	8:DC:15:GLN:HE22	1.75	0.51
9:DB:252:LYS:HZ3	8:DC:101:ASN:HB2	1.76	0.51
8:DG:259:LEU:HD21	8:DG:316:CYS:HB2	1.92	0.51
28:DO:127:LEU:O	28:DO:131:LYS:HG2	2.10	0.51
29:DS:333:ASP:OD1	29:DS:337:ARG:NH2	2.43	0.51
40:Dm:76:PRO:HG2	9:GH:320:ARG:HH22	1.76	0.51
8:EC:271:THR:OG1	8:EC:272:TYR:N	2.42	0.51
8:EC:328:VAL:HG11	8:EC:353:VAL:HG11	1.91	0.51
9:ED:122:LYS:NZ	9:FD:291:GLN:O	2.39	0.51
8:EG:292:THR:HG23	8:EG:317:MET:HE1	1.93	0.51
9:EN:216:LYS:HG2	9:EN:275:SER:HB3	1.92	0.51
44:ES:313:ASP:OD1	44:ES:317:LYS:NZ	2.41	0.51
44:EX:137:ARG:NH1	44:EX:283:ASP:OD2	2.44	0.51
44:EX:184:ARG:NH1	44:EX:188:GLU:OE2	2.42	0.51
42:F:307:SER:HB2	8:IE:370:LYS:HG2	1.92	0.51
42:F:580:GLU:N	42:F:580:GLU:OE1	2.42	0.51
9:FB:89:ASN:HA	9:FB:119:VAL:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FC:273:ALA:HB2	8:FC:295:CYS:HB3	1.93	0.51
45:G:34:GLU:OE2	45:G:36:ALA:N	2.42	0.51
9:GL:252:LYS:HG3	8:GM:100:ALA:HA	1.91	0.51
8:HC:68:VAL:HG12	8:HC:93:ILE:HB	1.92	0.51
8:HC:339:ARG:NE	8:HC:339:ARG:HA	2.25	0.51
9:HD:12:CYS:SG	9:HD:13:GLY:N	2.83	0.51
9:HD:58:LYS:HE2	9:ID:280:GLN:HB3	1.91	0.51
8:HE:1:MET:SD	8:HE:130:THR:OG1	2.69	0.51
9:HF:186:THR:HG23	9:HF:415:MET:HE3	1.91	0.51
8:HK:191:THR:HG23	8:HK:425:LEU:HD21	1.91	0.51
9:IB:91:VAL:HG21	9:IB:119:VAL:HG11	1.92	0.51
9:ID:30:ILE:HD11	9:ID:47:ILE:HD11	1.92	0.51
9:IJ:110:ALA:HA	9:IJ:113:VAL:HB	1.93	0.51
8:IK:46:ASP:OD1	8:IK:46:ASP:N	2.43	0.51
9:JF:344:TRP:HZ3	8:JG:403:ALA:HB2	1.75	0.51
9:JH:25:SER:HB3	9:JH:30:ILE:HB	1.92	0.51
8:JM:168:GLU:HB2	8:JM:201:ALA:HA	1.93	0.51
8:KM:292:THR:HG23	8:KM:317:MET:HE1	1.92	0.51
9:KN:8:GLN:HE21	9:KN:63:ALA:HB1	1.75	0.51
8:KO:71:GLU:HB2	8:KO:98:ASP:HB3	1.92	0.51
8:LG:139:HIS:ND1	8:LG:146:GLY:O	2.37	0.51
8:LG:428:LEU:HA	8:LG:431:ASP:HB2	1.91	0.51
9:MF:83:GLN:N	9:MF:83:GLN:OE1	2.44	0.51
8:MM:251:ASP:H	8:MM:254:GLU:HB3	1.74	0.51
8:NC:279:GLU:OE2	8:NC:279:GLU:N	2.44	0.51
8:NK:223:THR:O	8:NK:227:LEU:HD23	2.10	0.51
8:OA:265:ILE:HD11	8:OA:431:ASP:OD2	2.09	0.51
9:OB:222:TYR:HA	9:OB:225:LEU:HB2	1.92	0.51
8:OC:274:PRO:HG3	8:OC:374:ALA:HA	1.92	0.51
9:OD:265:PHE:HB3	9:OD:374:ILE:HD13	1.93	0.51
8:OG:363:VAL:HG23	8:OG:366:GLY:HA3	1.93	0.51
8:OI:11:GLN:OE1	8:OI:74:VAL:HG21	2.11	0.51
9:OJ:25:SER:OG	9:OJ:30:ILE:O	2.29	0.51
8:PA:310:GLY:HA3	8:PA:383:ALA:HB2	1.93	0.51
9:PF:207:LEU:HD22	9:PF:228:LEU:HD21	1.92	0.51
9:PH:322:SER:HB2	8:PI:223:THR:HA	1.92	0.51
9:PH:347:ASN:ND2	8:PI:178:SER:HB3	2.26	0.51
8:PI:136:LEU:HD13	8:PI:167:LEU:HB2	1.92	0.51
9:PL:117:LEU:HD11	9:PL:154:LYS:HG2	1.92	0.51
53:Q:139:LYS:HA	53:Q:139:LYS:HE3	1.93	0.51
9:QB:200:TYR:HD2	9:QB:268:PRO:HG3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QC:158:SER:OG	8:QC:166:LYS:NZ	2.44	0.51
8:QI:157:LEU:HD23	8:QI:161:TYR:HD2	1.75	0.51
8:QK:212:ILE:HD11	8:QK:300:ASN:HA	1.91	0.51
8:QM:329:ASN:HA	8:QM:332:ILE:HG12	1.92	0.51
8:RC:259:LEU:HD12	8:RC:268:PRO:HB3	1.92	0.51
9:RD:97:ALA:O	9:RD:100:ASN:ND2	2.40	0.51
9:RF:31:ASP:OD1	9:RF:35:THR:N	2.43	0.51
9:RF:207:LEU:HD23	9:RF:210:ILE:HD11	1.92	0.51
8:RI:286:LEU:HG	8:RI:371:VAL:HG23	1.92	0.51
8:RK:175:PRO:O	8:RK:394:LYS:NZ	2.43	0.51
8:RM:244:PHE:CE2	8:RM:358:GLN:HG2	2.46	0.51
8:TE:254:GLU:HB3	9:TF:98:GLY:HA2	1.92	0.51
9:TJ:173:PRO:HB3	9:TJ:380:ARG:CZ	2.41	0.51
9:TJ:180:VAL:HG22	9:TJ:183:TYR:HB2	1.93	0.51
8:TM:259:LEU:HD11	8:TM:316:CYS:HB2	1.93	0.51
9:UH:275:SER:HB3	9:UH:278:SER:HB3	1.93	0.51
9:UH:299:MET:HE1	9:UH:367:PHE:HD2	1.75	0.51
9:UJ:31:ASP:OD1	9:UJ:32:PRO:HD2	2.10	0.51
9:UJ:196:THR:O	9:UJ:264:HIS:NE2	2.42	0.51
8:UM:88:HIS:HB3	8:UM:91:GLN:HG3	1.92	0.51
8:VE:2:ARG:HB3	8:VE:242:LEU:HD22	1.91	0.51
8:VE:311:LYS:H	8:VE:382:THR:HG22	1.75	0.51
9:VF:266:PHE:HE1	9:VF:370:ASN:HD22	1.57	0.51
9:VH:46:ARG:HG2	9:VH:241:ARG:HA	1.92	0.51
9:VH:196:THR:OG1	9:VH:264:HIS:NE2	2.38	0.51
9:VL:153:SER:OG	9:VL:191:GLN:NE2	2.42	0.51
56:XH:125:LEU:HD23	56:XH:130:ASN:HD21	1.74	0.51
47:Y:424:ALA:HB1	47:Y:503:PHE:HB3	1.93	0.51
2:0a:34:ARG:HD3	2:0a:44:ILE:HD11	1.93	0.51
2:0a:50:VAL:HG12	2:0a:71:LEU:HD11	1.92	0.51
9:AB:112:LEU:HB3	9:AB:147:MET:HE1	1.93	0.51
9:AD:281:TYR:O	9:KF:86:ARG:NH1	2.44	0.51
13:Ac:421:ARG:HH21	8:EE:45:GLY:H	1.59	0.51
13:Ad:266:GLN:HE21	13:Ad:268:ARG:NH1	2.01	0.51
16:At:206:ARG:NH2	9:FL:299:MET:SD	2.84	0.51
5:B:148:LEU:HD23	8:VG:358:GLN:OE1	2.11	0.51
9:BH:273:LEU:O	9:BH:292:GLN:NE2	2.44	0.51
9:BH:316:VAL:HG22	9:BH:352:ALA:HB3	1.91	0.51
8:BI:254:GLU:O	8:BI:258:ASN:ND2	2.43	0.51
21:Bj:95:ASN:OD1	21:Bj:98:GLN:NE2	2.43	0.51
27:Bs:318:GLU:C	27:Bs:322:GLN:HE21	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bz:30:TYR:OH	8:KE:433:GLU:OE1	2.27	0.51
28:C4:467:TYR:OH	32:Cp:380:GLU:OE1	2.13	0.51
28:C7:129:GLN:OE1	28:C7:133:GLN:NE2	2.44	0.51
8:CE:39:ASP:OD1	48:J:82:TYR:OH	2.28	0.51
8:CG:278:ALA:HA	8:CG:369:ALA:HB2	1.93	0.51
8:CM:211:ASP:OD1	8:CM:211:ASP:N	2.35	0.51
14:CN:215:GLN:HE22	9:EB:44:LEU:HB3	1.74	0.51
14:CO:24:TYR:O	14:CO:26:GLN:N	2.35	0.51
2:CT:111:LEU:HA	2:CT:114:LEU:HD13	1.92	0.51
2:Ck:3:ASN:HA	2:Ck:6:LYS:NZ	2.25	0.51
33:Cq:389:LYS:HD3	33:Cq:408:VAL:HB	1.93	0.51
33:Cv:196:SER:OG	33:Cv:198:ASN:OD1	2.29	0.51
29:D1:174:ASP:OD1	29:D1:178:ARG:NH2	2.43	0.51
29:D7:400:GLU:O	29:D7:403:THR:OG1	2.29	0.51
8:DA:223:THR:OG1	8:DA:224:TYR:N	2.44	0.51
8:DC:209:ILE:HD11	8:DC:227:LEU:HG	1.93	0.51
8:DC:320:ARG:HD3	8:DC:360:PRO:HG3	1.93	0.51
8:DE:414:GLU:N	8:DE:414:GLU:OE1	2.44	0.51
8:DG:207:GLU:HA	8:DG:210:TYR:HB2	1.92	0.51
9:DH:299:MET:N	9:DH:299:MET:SD	2.84	0.51
9:DJ:68:LEU:HD13	9:DJ:143:THR:HG23	1.93	0.51
9:DJ:331:LEU:HD21	8:DK:177:VAL:HG22	1.92	0.51
8:DM:362:VAL:HG22	8:DM:370:LYS:HD3	1.93	0.51
29:DT:450:THR:HG23	29:DT:453:ARG:HH21	1.76	0.51
29:DV:130:LYS:NZ	29:DV:134:THR:HB	2.26	0.51
29:EO:402:ARG:HH22	29:EO:415:PRO:HB2	1.76	0.51
29:EP:162:GLU:OE1	29:EP:314:ARG:NH1	2.43	0.51
44:EY:288:ASP:HA	44:EY:291:GLU:HG2	1.92	0.51
9:FH:218:THR:HB	47:I:458:ASN:H	1.76	0.51
8:FK:358:GLN:O	8:FK:358:GLN:HG2	2.10	0.51
8:HO:188:ILE:HG21	8:HO:395:LEU:HD22	1.93	0.51
9:IF:236:VAL:HG22	9:IF:368:ILE:HD11	1.92	0.51
9:IH:272:PRO:HG3	9:IH:364:SER:HA	1.93	0.51
9:JD:173:PRO:HB3	9:JD:380:ARG:HD2	1.92	0.51
8:JE:377:MET:HE2	8:JE:379:SER:HB3	1.92	0.51
8:JI:229:ARG:HD3	8:JI:363:VAL:HG21	1.91	0.51
9:JN:54:ALA:HA	9:MN:283:ALA:HB2	1.92	0.51
8:KE:372:GLN:N	8:KE:372:GLN:OE1	2.44	0.51
48:M:46:THR:HB	48:M:50:LYS:HZ1	1.76	0.51
8:MI:254:GLU:OE2	9:MJ:99:ASN:ND2	2.44	0.51
9:MJ:130:LEU:O	9:MJ:162:ARG:NH2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MN:207:LEU:HB3	9:MN:225:LEU:HD22	1.93	0.51
8:NG:33:ASP:O	8:NG:60:LYS:NZ	2.43	0.51
9:NH:252:LYS:NZ	67:NI:501:GTP:O3G	2.43	0.51
9:OD:19:LYS:HA	9:OD:22:GLU:HB2	1.92	0.51
9:OF:337:ASN:HB2	9:OF:340:TYR:HD2	1.76	0.51
52:P:70:ARG:HH12	52:P:72:ARG:HB2	1.76	0.51
9:PB:347:ASN:O	8:PC:181:VAL:HG12	2.10	0.51
8:PC:245:ASP:OD1	8:PC:245:ASP:N	2.41	0.51
9:PD:143:THR:N	69:PD:501:GDP:O1B	2.41	0.51
9:PF:261:PRO:HD3	8:PG:406:HIS:CD2	2.46	0.51
9:PJ:334:GLN:HE21	9:PJ:349:VAL:HG23	1.74	0.51
8:PK:182:VAL:HG22	8:PK:185:TYR:HB2	1.91	0.51
8:QA:209:ILE:HA	8:QA:212:ILE:HG12	1.93	0.51
9:QF:12:CYS:O	9:QF:16:ILE:HD12	2.11	0.51
8:QI:211:ASP:HB3	8:QI:214:ARG:HH21	1.76	0.51
8:QI:224:TYR:O	8:QI:228:ASN:HB2	2.11	0.51
9:QJ:6:HIS:NE2	9:QJ:8:GLN:OE1	2.43	0.51
8:QK:98:ASP:OD1	8:QK:99:ALA:N	2.44	0.51
9:QL:219:THR:O	9:QL:219:THR:OG1	2.26	0.51
8:RI:11:GLN:HG2	8:RI:74:VAL:HG11	1.91	0.51
8:RI:145:THR:OG1	67:RI:501:GTP:O2B	2.29	0.51
9:RJ:62:ARG:HG2	9:RJ:123:GLU:OE1	2.10	0.51
8:SG:204:VAL:HG13	8:SG:302:MET:HB3	1.92	0.51
9:SL:32:PRO:HB2	9:SL:83:GLN:HE22	1.75	0.51
9:TD:1:MET:HE2	9:TD:2:ARG:N	2.25	0.51
8:TI:323:VAL:HG12	8:TI:373:ARG:HG2	1.92	0.51
9:TJ:257:MET:SD	9:TJ:314:ALA:HB2	2.51	0.51
1:V:29:ARG:HH22	1:V:36:ARG:HD2	1.76	0.51
1:V:125:ILE:HG23	61:h:69:VAL:HG21	1.92	0.51
9:VD:314:ALA:HB3	9:VD:368:ILE:HB	1.93	0.51
9:VJ:272:PRO:HG3	9:VJ:364:SER:HA	1.91	0.51
9:VJ:331:LEU:O	9:VJ:335:ASN:HB2	2.11	0.51
8:VK:207:GLU:HA	8:VK:210:TYR:CD2	2.46	0.51
9:VL:326:VAL:O	9:VL:330:MET:HG2	2.11	0.51
9:WF:326:VAL:O	9:WF:330:MET:HG3	2.10	0.51
8:WI:251:ASP:HB3	8:WI:254:GLU:HB2	1.92	0.51
9:WL:216:LYS:HB2	9:WL:275:SER:HB2	1.92	0.51
9:WL:389:PHE:HE1	9:WL:395:LEU:HD21	1.75	0.51
56:XI:100:ARG:HG2	56:XI:152:LEU:HG	1.93	0.51
65:r:160:SER:HB2	65:r:168:PHE:HD1	1.74	0.51
3:2:201:VAL:HA	3:2:204:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AD:196:THR:HG21	9:AD:199:THR:OG1	2.10	0.51
9:AH:40:SER:OG	9:AH:41:ASP:N	2.43	0.51
12:AW:335:ARG:NH2	12:AW:347:GLY:O	2.43	0.51
13:Ad:451:VAL:HG23	13:Ad:466:PHE:HB3	1.93	0.51
15:Ap:145:TRP:O	15:Ap:147:ARG:NH1	2.43	0.51
7:Av:206:VAL:HG11	9:NH:114:ASP:HB2	1.93	0.51
5:B:128:PHE:HB3	59:b:439:ARG:NH2	2.25	0.51
8:BC:6:SER:OG	8:BC:64:ARG:O	2.27	0.51
9:BF:271:ALA:HB1	9:BF:289:LEU:HD22	1.92	0.51
9:BH:184:ASN:OD1	9:BH:398:TYR:OH	2.25	0.51
19:BR:47:TRP:HZ3	39:Dk:126:HIS:CG	2.29	0.51
19:BR:247:LEU:HD13	9:MJ:106:TYR:HA	1.92	0.51
14:BY:296:ASN:ND2	14:BY:304:SER:OG	2.43	0.51
8:CE:64:ARG:HG3	8:CE:125:LEU:HD21	1.93	0.51
2:CV:77:LEU:HD13	2:CV:80:LEU:HD12	1.93	0.51
2:Ci:50:VAL:HG23	2:Ci:71:LEU:HD21	1.93	0.51
32:Cm:223:THR:O	32:Cm:227:LYS:HG2	2.10	0.51
33:Cr:255:GLU:OE1	33:Cr:258:ARG:NH2	2.39	0.51
33:Cy:308:LEU:HD21	44:EY:220:GLU:OE2	2.11	0.51
29:D3:366:LYS:HG3	29:D6:113:ARG:HH12	1.74	0.51
8:DA:4:CYS:SG	8:DA:5:ILE:N	2.83	0.51
9:DB:309:ARG:NH1	9:DB:341:PHE:O	2.43	0.51
9:DF:39:ASP:OD1	9:DF:39:ASP:N	2.37	0.51
8:DG:15:GLN:O	8:DG:228:ASN:ND2	2.44	0.51
9:DL:16:ILE:HG21	9:DL:136:THR:HG21	1.91	0.51
35:DZ:65:HIS:O	35:DZ:69:THR:OG1	2.24	0.51
37:De:243:LEU:HD22	37:De:247:HIS:CE1	2.46	0.51
29:EO:268:GLU:OE1	44:EY:323:ARG:NH1	2.39	0.51
44:ES:123:GLU:OE1	44:ES:272:ARG:NH1	2.44	0.51
9:FD:237:THR:HG22	9:FD:241:ARG:HE	1.76	0.51
9:FF:211:CYS:HA	9:FF:215:LEU:HB2	1.92	0.51
8:FG:68:VAL:HG22	8:FG:93:ILE:HB	1.93	0.51
9:FH:74:ASP:OD1	9:FH:74:ASP:N	2.36	0.51
9:FH:218:THR:HG22	9:FH:219:THR:H	1.74	0.51
8:FK:111:GLY:HA2	8:FK:114:ILE:HG22	1.92	0.51
45:G:343:ARG:NH2	9:HN:78:SER:O	2.43	0.51
8:GI:306:ASP:OD2	8:GI:309:HIS:ND1	2.35	0.51
8:GK:70:LEU:HD11	8:GK:114:ILE:HG21	1.93	0.51
8:HC:81:GLY:O	8:HC:84:ARG:NH2	2.44	0.51
9:HJ:14:ASN:HB3	9:HJ:76:VAL:HG21	1.92	0.51
9:HL:278:SER:OG	9:HL:278:SER:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HM:276:ILE:HD11	8:HM:286:LEU:HD11	1.91	0.51
47:I:519:ASN:HB3	47:I:522:GLN:HE22	1.76	0.51
9:IB:156:ARG:HH21	9:IB:164:MET:HG2	1.75	0.51
9:IH:51:TYR:O	53:Q:63:TYR:OH	2.24	0.51
8:JI:71:GLU:HB3	8:JI:98:ASP:HB3	1.92	0.51
9:JL:325:GLU:HA	9:JL:328:GLU:HB2	1.92	0.51
9:KB:172:SER:OG	9:KB:203:ASP:OD1	2.28	0.51
9:KB:293:MET:HE3	9:KB:367:PHE:HD1	1.76	0.51
9:LD:167:PHE:CE1	9:LD:233:MET:HG3	2.46	0.51
8:NA:68:VAL:HA	8:NA:93:ILE:HB	1.92	0.51
8:NA:367:ASP:OD1	8:NA:367:ASP:N	2.43	0.51
8:NC:254:GLU:O	8:NC:258:ASN:ND2	2.44	0.51
8:OE:239:THR:O	8:OE:243:ARG:NH1	2.44	0.51
8:PC:133:GLN:HB2	8:PC:252:LEU:HD12	1.92	0.51
9:QD:247:ASN:ND2	8:QE:73:THR:OG1	2.38	0.51
8:QG:19:ALA:HB1	8:QG:229:ARG:HG3	1.91	0.51
8:QI:353:VAL:HG22	9:QJ:177:ASP:HB2	1.93	0.51
9:QL:270:PHE:CD1	9:QL:272:PRO:HD2	2.46	0.51
9:QL:318:ARG:NH2	9:QL:364:SER:OG	2.43	0.51
8:RA:260:VAL:HG12	8:RA:266:HIS:HA	1.92	0.51
8:RM:161:TYR:HB3	8:RM:164:LYS:HG3	1.93	0.51
8:SK:288:VAL:HG11	8:SK:323:VAL:HG13	1.91	0.51
9:SL:118:ASP:HA	9:SL:121:ARG:NH1	2.25	0.51
8:TE:382:THR:HA	8:TE:432:TYR:CE1	2.45	0.51
8:TI:180:ALA:HB3	8:TI:183:GLU:HG3	1.92	0.51
9:UB:248:ALA:HA	9:UB:252:LYS:HD3	1.93	0.51
8:UC:422:ARG:O	8:UC:422:ARG:NH1	2.44	0.51
9:UF:42:LEU:HD23	9:UF:356:ILE:HD11	1.92	0.51
9:UJ:260:PHE:HE1	8:UK:403:ALA:HA	1.75	0.51
9:UJ:395:LEU:HD11	9:UJ:405:GLU:HB2	1.92	0.51
9:UN:388:MET:HE2	9:UN:388:MET:HA	1.92	0.51
9:VD:101:TRP:CD1	9:VD:403:MET:HE1	2.44	0.51
9:VD:276:ARG:HH22	59:b:508:ARG:CZ	2.23	0.51
9:VJ:344:TRP:CD1	8:VK:401:LYS:HZ2	2.28	0.51
9:VN:73:MET:SD	9:VN:73:MET:N	2.84	0.51
9:VN:265:PHE:HE2	9:VN:418:LEU:HD11	1.75	0.51
8:WE:252:LEU:HA	8:WE:255:PHE:CE1	2.46	0.51
9:WN:124:ALA:HB1	9:WN:130:LEU:HD11	1.93	0.51
47:X:436:ARG:NE	47:X:453:GLU:OE2	2.37	0.51
56:XJ:147:ASN:OD1	56:XJ:147:ASN:N	2.43	0.51
56:XM:68:THR:HB	56:XM:152:LEU:HD22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:XM:149:ILE:HG23	57:YL:78:ARG:HH22	1.75	0.51
57:YG:50:ASN:O	57:YG:50:ASN:ND2	2.44	0.51
60:e:420:ARG:NH2	65:t:169:SER:OG	2.44	0.51
63:m:31:SER:OG	63:m:32:ASP:N	2.44	0.51
63:m:37:LYS:NZ	63:m:60:THR:O	2.43	0.51
46:o:535:GLU:HA	46:o:538:GLN:HG3	1.93	0.51
46:o:545:ARG:HH22	46:o:549:ASP:CG	2.18	0.51
7:A7:86:ALA:HA	9:SH:332:ASN:HB3	1.91	0.51
9:AB:262:ARG:NH1	9:AB:421:GLU:OE1	2.43	0.51
9:AD:387:ALA:HA	9:AD:390:ARG:HH12	1.75	0.51
8:AE:317:MET:HE3	8:AE:377:MET:HG3	1.93	0.51
9:AL:272:PRO:HG3	9:AL:364:SER:HA	1.93	0.51
10:AP:96:ILE:HG13	10:AP:113:ILE:HD11	1.93	0.51
12:AW:287:GLU:CD	12:AW:287:GLU:H	2.18	0.51
13:Ab:214:LYS:HB3	13:Ab:241:LEU:HD12	1.93	0.51
13:Ad:237:LEU:HD12	13:Ad:238:HIS:H	1.76	0.51
15:Ap:119:GLN:HE22	32:Cm:248:GLN:HE22	1.59	0.51
15:Aq:164:HIS:HB3	47:Y:215:LEU:HD21	1.92	0.51
15:Ar:10:LEU:HD21	20:BS:364:ARG:HH11	1.74	0.51
8:BE:251:ASP:OD2	8:BE:252:LEU:N	2.43	0.51
9:BF:10:GLY:O	9:BF:14:ASN:ND2	2.44	0.51
9:BF:217:LEU:HB3	9:BF:220:PRO:HD3	1.93	0.51
9:BL:138:SER:OG	69:BL:501:GDP:O1A	2.29	0.51
8:BM:217:LEU:HD11	8:BM:367:ASP:OD2	2.11	0.51
19:BQ:358:ARG:HA	19:BQ:361:ILE:HD12	1.93	0.51
18:By:200:LEU:HD13	18:By:204:LYS:HE2	1.93	0.51
5:C:89:TYR:HE1	5:C:127:LEU:HB3	1.75	0.51
28:C3:142:SER:OG	28:C5:399:ARG:NH1	2.44	0.51
8:CC:267:PHE:HB3	8:CC:384:ILE:HD13	1.91	0.51
9:CF:116:VAL:HG11	9:CF:151:LEU:HD21	1.93	0.51
9:CH:170:VAL:HG11	9:CH:377:LEU:HD21	1.92	0.51
8:CK:79:ARG:HB3	8:CK:84:ARG:NH1	2.26	0.51
8:CM:311:LYS:HG2	8:CM:342:GLN:HG3	1.91	0.51
33:Ct:303:ASP:OD1	33:Ct:306:ARG:NH2	2.34	0.51
9:DH:46:ARG:NH1	8:DI:76:ASP:OD2	2.44	0.51
9:DN:31:ASP:OD2	9:DN:31:ASP:N	2.43	0.51
29:DQ:436:ARG:HA	29:DQ:439:GLU:HG2	1.92	0.51
29:DW:162:GLU:HG3	29:DW:307:ILE:HD12	1.91	0.51
8:EE:381:THR:HG22	8:EE:383:ALA:H	1.76	0.51
9:EF:14:ASN:HB3	9:EF:76:VAL:HG21	1.93	0.51
8:EG:7:ILE:HB	8:EG:137:ILE:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EJ:282:ARG:NH1	9:EJ:292:GLN:OE1	2.44	0.51
8:EK:439:SER:O	8:EK:439:SER:OG	2.26	0.51
29:EQ:197:CYS:HB3	29:EQ:218:LEU:HD21	1.92	0.51
8:FE:227:LEU:O	8:FE:231:ILE:HG13	2.11	0.51
8:FG:108:TYR:O	8:FG:112:LYS:HE3	2.11	0.51
9:FL:61:PRO:HD3	9:FL:84:ILE:HG12	1.91	0.51
9:GB:284:LEU:HD12	9:GB:363:MET:SD	2.50	0.51
8:GK:306:ASP:OD2	8:GK:309:HIS:ND1	2.44	0.51
9:GL:318:ARG:HE	9:GL:358:PRO:HD3	1.76	0.51
9:HF:274:THR:HG22	9:HF:282:ARG:HH11	1.75	0.51
8:HO:88:HIS:CE1	8:HO:90:GLU:HB3	2.46	0.51
47:I:97:LEU:HB2	47:I:124:TYR:HB3	1.92	0.51
9:IH:238:THR:HG21	9:IH:318:ARG:HD2	1.92	0.51
8:II:154:MET:HE2	8:II:198:SER:HB2	1.92	0.51
9:JD:314:ALA:HB3	9:JD:368:ILE:HB	1.91	0.51
48:K:95:ASN:OD1	48:K:95:ASN:N	2.44	0.51
8:KK:265:ILE:HG21	8:KK:313:MET:HE1	1.93	0.51
8:LC:90:GLU:N	8:LC:90:GLU:OE2	2.44	0.51
8:LC:298:PRO:HG2	8:LC:308:ARG:HH12	1.76	0.51
9:LN:306:ARG:HG2	9:LN:340:TYR:CZ	2.46	0.51
9:MD:355:ASP:OD1	9:MD:355:ASP:N	2.35	0.51
8:MK:140:SER:OG	67:MK:501:GTP:O2A	2.29	0.51
9:MN:272:PRO:HG3	9:MN:364:SER:HA	1.92	0.51
9:ND:246:LEU:HD21	8:NE:179:THR:HG21	1.93	0.51
9:ND:364:SER:OG	9:ND:365:ALA:N	2.42	0.51
8:NE:24:TYR:HE1	8:NE:236:SER:HB2	1.74	0.51
9:NF:191:GLN:OE1	9:NF:195:ASN:ND2	2.44	0.51
9:NJ:156:ARG:NE	9:NJ:195:ASN:O	2.44	0.51
9:O0:47:ILE:HD13	9:O0:59:TYR:HE1	1.76	0.51
8:OK:206:ASN:OD1	67:OK:501:GTP:N2	2.39	0.51
8:PA:169:PHE:CD2	8:PA:202:PHE:HB2	2.46	0.51
9:PB:10:GLY:O	9:PB:14:ASN:HB2	2.11	0.51
9:PD:379:LYS:HD3	9:PD:419:VAL:HG11	1.93	0.51
8:QA:381:THR:HG22	8:QA:383:ALA:H	1.75	0.51
8:QC:8:HIS:HA	8:QC:138:PHE:HB2	1.92	0.51
9:QF:156:ARG:NH2	9:QF:164:MET:H	2.09	0.51
9:QF:213:ARG:HD3	9:QF:297:LYS:HE3	1.93	0.51
8:QM:36:MET:HE3	8:QM:37:PRO:HD2	1.91	0.51
8:QM:238:ILE:HD11	8:QM:378:LEU:HD21	1.92	0.51
8:RC:70:LEU:HA	8:RC:95:GLY:HA3	1.93	0.51
8:RI:12:ALA:O	8:RI:16:ILE:HG12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RI:64:ARG:NH1	8:RI:129:CYS:SG	2.84	0.51
9:RL:295:ASP:OD2	9:RL:297:LYS:HG2	2.11	0.51
8:RM:218:ASP:H	8:RM:277:SER:HB3	1.76	0.51
8:SA:3:GLU:OE2	8:SA:130:THR:N	2.44	0.51
8:SA:137:ILE:HD11	8:SA:154:MET:CE	2.41	0.51
9:SB:248:ALA:HA	9:SB:252:LYS:HD3	1.92	0.51
8:SI:90:GLU:O	8:SI:121:ARG:NE	2.39	0.51
9:SJ:253:LEU:O	9:SJ:257:MET:HB2	2.11	0.51
8:SK:183:GLU:HG3	8:SK:184:PRO:HD3	1.93	0.51
9:TH:282:ARG:HH12	9:TH:292:GLN:HE22	1.59	0.51
9:UD:30:ILE:HG21	9:UD:51:TYR:HE2	1.76	0.51
9:UF:273:LEU:O	9:UF:292:GLN:NE2	2.44	0.51
9:UF:285:THR:OG1	9:UF:286:VAL:N	2.43	0.51
9:UJ:318:ARG:HG2	9:UJ:357:PRO:HA	1.93	0.51
8:UK:204:VAL:HG11	8:UK:231:ILE:HD11	1.93	0.51
9:UN:49:VAL:HG11	9:UN:241:ARG:HG2	1.92	0.51
1:V:48:VAL:HG13	1:V:50:SER:H	1.76	0.51
9:VF:255:VAL:HA	8:VG:407:TRP:CH2	2.45	0.51
8:VG:238:ILE:HD11	8:VG:378:LEU:HD21	1.93	0.51
8:VI:276:ILE:HD11	8:VI:286:LEU:HD11	1.92	0.51
9:VJ:246:LEU:HA	8:VK:11:GLN:HE22	1.76	0.51
8:VK:212:ILE:HD11	8:VK:300:ASN:HA	1.92	0.51
9:WH:215:LEU:HD11	9:WH:273:LEU:HD22	1.93	0.51
8:WI:259:LEU:HD21	8:WI:316:CYS:HB2	1.92	0.51
9:WN:8:GLN:HB2	9:WN:65:LEU:HA	1.93	0.51
9:WN:20:PHE:HB2	9:WN:233:MET:HE2	1.93	0.51
56:XH:141:ARG:HH11	56:XH:147:ASN:HB3	1.75	0.51
56:XM:45:LEU:O	56:XM:163:ARG:NH1	2.44	0.51
57:YL:234:ARG:NH2	57:YL:254:CYS:SG	2.83	0.51
59:a:195:ILE:HD11	59:b:536:ALA:HA	1.92	0.51
59:c:258:HIS:O	59:c:261:GLU:HG3	2.11	0.51
3:2:143:LEU:HB2	3:2:151:LYS:HB2	1.92	0.51
7:A1:209:PRO:HG2	9:OB:93:GLY:HA2	1.91	0.51
9:AD:267:MET:HE1	9:AD:373:ALA:HB3	1.93	0.51
9:AH:170:VAL:HG11	9:AH:377:LEU:HD21	1.93	0.51
9:AH:423:GLN:HG2	57:YI:59:ALA:HB1	1.93	0.51
11:AT:97:ARG:NH1	12:AV:363:ASP:OD2	2.44	0.51
14:Al:54:SER:OG	14:Al:55:VAL:N	2.44	0.51
7:Av:124:ILE:O	9:OL:306:ARG:NH2	2.43	0.51
7:Av:125:SER:HA	9:OL:306:ARG:HH21	1.76	0.51
16:Ax:130:ARG:CZ	9:FD:299:MET:HE3	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:Ax:154:ALA:HA	8:FC:214:ARG:HH21	1.76	0.51
8:BG:273:ALA:HB1	8:BG:291:ILE:HB	1.93	0.51
9:BH:215:LEU:HD21	9:BH:273:LEU:HD22	1.91	0.51
19:BO:299:GLU:OE1	19:BO:302:ARG:NH1	2.40	0.51
19:BR:19:PRO:O	19:BR:23:GLU:HB2	2.11	0.51
20:BS:308:LEU:O	20:BS:310:ARG:NH2	2.43	0.51
22:BW:183:ILE:HB	22:BW:189:ARG:HH21	1.75	0.51
21:Bj:226:GLU:HG2	33:Cs:208:VAL:HG21	1.93	0.51
27:Br:37:GLN:OE1	9:MD:213:ARG:NH1	2.43	0.51
18:Bz:234:GLU:HA	18:Bz:237:MET:HE2	1.93	0.51
9:CB:95:SER:OG	9:CB:96:GLY:N	2.41	0.51
8:CK:81:GLY:HA3	38:Df:21:TYR:HE2	1.76	0.51
2:CT:26:PHE:O	2:CT:30:LEU:HD12	2.11	0.51
2:CT:28:GLY:HA2	2:CT:31:GLU:HG2	1.93	0.51
2:Ci:126:LEU:HB2	2:Ci:131:ALA:HB2	1.93	0.51
33:Cq:202:LYS:HG2	33:Cr:319:GLU:HB2	1.92	0.51
29:D3:199:TYR:HD2	45:G:307:LEU:HD13	1.76	0.51
9:DF:116:VAL:HA	9:DF:119:VAL:HG12	1.93	0.51
9:DJ:177:ASP:OD1	9:DJ:178:THR:OG1	2.22	0.51
9:DL:52:ASN:OD1	9:DL:53:GLU:N	2.44	0.51
9:DL:211:CYS:HA	9:DL:215:LEU:HB2	1.93	0.51
9:EB:211:CYS:HB2	9:EB:217:LEU:HD11	1.92	0.51
9:EB:302:ALA:HB3	9:EB:377:LEU:HD21	1.93	0.51
8:EC:171:ILE:HG13	8:EC:204:VAL:HB	1.92	0.51
8:EC:188:ILE:HG13	8:EC:395:LEU:HD22	1.93	0.51
8:EE:198:SER:OG	8:EE:200:CYS:O	2.28	0.51
9:EF:163:ILE:HD13	9:EF:250:LEU:HB3	1.92	0.51
9:EJ:73:MET:HE3	9:EJ:90:PHE:HD1	1.76	0.51
9:EJ:275:SER:O	9:EJ:279:GLN:N	2.43	0.51
8:EM:206:ASN:OD1	67:EM:501:GTP:N2	2.42	0.51
8:EM:209:ILE:HA	8:EM:212:ILE:HG22	1.93	0.51
8:EM:381:THR:HG22	8:EM:383:ALA:H	1.75	0.51
29:EQ:193:VAL:HA	29:EQ:196:GLU:HB2	1.93	0.51
28:F3:437:ARG:HH12	28:F6:123:ASP:HB3	1.76	0.51
9:FB:325:GLU:HA	9:FB:328:GLU:HG3	1.92	0.51
9:FD:246:LEU:HD21	8:FE:179:THR:HG21	1.92	0.51
9:GB:27:GLU:HB3	9:GB:241:ARG:HH22	1.76	0.51
8:GM:1:MET:HE1	9:GN:70:PRO:HD2	1.92	0.51
8:GM:71:GLU:HB3	8:GM:73:THR:HG22	1.91	0.51
8:HI:328:VAL:O	8:HI:332:ILE:HD12	2.10	0.51
9:HN:158:GLU:N	9:HN:158:GLU:OE1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:I:135:GLU:OE2	47:I:145:GLN:NE2	2.38	0.51
9:ID:100:ASN:HB2	9:ID:103:LYS:HZ1	1.76	0.51
9:ID:287:PRO:HG3	9:ID:329:GLN:HE21	1.76	0.51
8:IE:9:VAL:HG11	8:IE:150:ALA:HB2	1.91	0.51
8:IM:269:LEU:HG	8:IM:384:ILE:HD11	1.92	0.51
8:JE:5:ILE:HG22	8:JE:64:ARG:HB2	1.92	0.51
9:JL:67:ASP:OD2	9:JL:68:LEU:N	2.44	0.51
9:JL:252:LYS:HZ1	8:JM:101:ASN:HB2	1.76	0.51
8:KI:68:VAL:HG11	8:KI:149:PHE:HE1	1.76	0.51
8:KI:71:GLU:HB2	8:KI:98:ASP:HB3	1.93	0.51
9:KJ:6:HIS:HD2	9:KJ:21:TRP:HE1	1.59	0.51
8:LG:53:PHE:HB3	8:LG:61:HIS:HB3	1.93	0.51
8:MC:346:TRP:HB3	9:MD:391:ARG:HD3	1.93	0.51
9:MJ:74:ASP:OD1	9:MJ:77:ARG:NH2	2.44	0.51
8:MK:238:ILE:HG23	8:MK:255:PHE:HE2	1.75	0.51
8:NI:209:ILE:HD11	8:NI:230:LEU:HD21	1.92	0.51
51:O:86:ILE:HG23	51:O:87:PHE:HD2	1.76	0.51
9:OD:207:LEU:HD23	9:OD:210:ILE:HD11	1.93	0.51
9:OF:321:MET:SD	9:OF:321:MET:N	2.84	0.51
8:OG:98:ASP:O	8:OG:105:ARG:NH2	2.41	0.51
8:OG:286:LEU:HD12	8:OG:373:ARG:HH11	1.74	0.51
9:PB:122:LYS:HE3	9:QB:291:GLN:HE22	1.75	0.51
8:PC:105:ARG:HD3	8:PC:109:THR:HB	1.92	0.51
8:PE:188:ILE:HD12	8:PE:425:LEU:HD11	1.92	0.51
9:PJ:199:THR:OG1	9:PJ:264:HIS:O	2.26	0.51
8:QI:12:ALA:HB1	8:QI:171:ILE:HD13	1.93	0.51
9:QL:182:PRO:O	9:QL:186:THR:OG1	2.22	0.51
9:QL:265:PHE:HB3	9:QL:374:ILE:HD13	1.93	0.51
9:RJ:118:ASP:OD1	9:RJ:121:ARG:NH2	2.43	0.51
9:RJ:287:PRO:HD2	9:RJ:288:GLU:N	2.25	0.51
8:SA:154:MET:HE1	8:SA:166:LYS:HD3	1.91	0.51
8:SA:176:GLN:H	8:SA:394:LYS:HE2	1.76	0.51
8:SA:333:ALA:HB2	9:SB:174:LYS:HE2	1.93	0.51
8:SM:172:TYR:HB2	8:SM:203:MET:HB2	1.92	0.51
8:TC:274:PRO:HG3	8:TC:374:ALA:HA	1.92	0.51
8:TE:196:GLU:N	8:TE:196:GLU:OE1	2.44	0.51
8:TE:293:ASN:HB3	8:TE:335:ILE:HD11	1.93	0.51
9:TJ:156:ARG:NH2	9:TJ:197:ASP:OD1	2.44	0.51
8:TK:279:GLU:OE1	8:TK:282:TYR:OH	2.19	0.51
9:UB:184:ASN:OD1	9:UB:398:TYR:OH	2.29	0.51
8:UC:139:HIS:ND1	8:UC:146:GLY:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UG:185:TYR:OH	8:UG:403:ALA:O	2.27	0.51
9:UH:392:LYS:HA	9:UH:395:LEU:HD23	1.93	0.51
9:VB:237:THR:HG22	9:VB:250:LEU:HD21	1.92	0.51
8:VC:129:CYS:SG	8:VC:132:LEU:HB3	2.51	0.51
8:VI:80:THR:O	8:VI:84:ARG:NH2	2.43	0.51
9:WF:347:ASN:ND2	8:WG:180:ALA:O	2.43	0.51
8:WG:215:ARG:NH2	8:WG:299:ALA:O	2.43	0.51
8:WI:244:PHE:HB2	8:WI:356:ASN:HD21	1.74	0.51
8:WI:416:GLY:O	8:WI:419:SER:OG	2.27	0.51
9:WJ:136:THR:HG22	9:WJ:167:PHE:HB2	1.93	0.51
8:WK:274:PRO:HG2	8:WK:374:ALA:HA	1.92	0.51
47:Y:508:THR:OG1	47:Y:509:ASP:N	2.43	0.51
60:e:17:LEU:H	60:e:585:VAL:HG23	1.76	0.51
62:i:148:ARG:HD2	62:i:191:ASN:HB3	1.93	0.51
62:i:200:PRO:HG2	62:i:257:VAL:HG22	1.92	0.51
62:j:64:ILE:HD11	62:j:70:VAL:HG21	1.93	0.51
4:z:1357:ARG:O	4:z:1361:GLN:NE2	2.25	0.51
7:A3:140:ALA:H	8:QG:338:LYS:NZ	2.08	0.51
8:AA:93:ILE:HG12	8:AA:117:LEU:HD22	1.93	0.51
9:AD:309:ARG:HG3	57:YK:56:PRO:HG3	1.92	0.51
8:AE:251:ASP:H	8:AE:254:GLU:HB2	1.76	0.51
8:AG:22:GLU:OE1	8:AG:83:TYR:OH	2.28	0.51
10:AR:24:LEU:HB2	8:KO:339:ARG:NH2	2.27	0.51
13:Aa:248:ILE:HG22	13:Aa:265:LEU:HB2	1.93	0.51
13:Ab:93:TYR:OH	13:Ab:100:GLU:OE1	2.25	0.51
13:Ab:643:ASP:HB3	13:Ab:646:ARG:NH2	2.25	0.51
8:BC:132:LEU:HB3	8:BC:164:LYS:HE3	1.92	0.51
9:BF:209:ASP:OD2	9:BF:213:ARG:NH2	2.40	0.51
9:BJ:272:PRO:HG3	9:BJ:364:SER:HA	1.92	0.51
19:BP:398:VAL:HG13	19:BP:409:LEU:HD21	1.92	0.51
19:BR:111:LEU:HD13	19:BR:112:PRO:HD2	1.93	0.51
23:Bg:97:ASN:O	9:HN:306:ARG:NH2	2.44	0.51
18:By:210:VAL:HG12	18:By:237:MET:HE1	1.92	0.51
28:C8:118:GLU:OE2	28:C8:121:ARG:NH2	2.43	0.51
28:C8:193:GLN:NE2	28:C8:197:GLU:OE1	2.41	0.51
28:C9:446:GLN:NE2	28:F3:285:HIS:H	2.08	0.51
8:CA:364:PRO:HB2	48:M:91:LEU:HA	1.93	0.51
8:CE:8:HIS:HA	8:CE:138:PHE:HB2	1.93	0.51
9:CF:11:GLN:HE21	69:CF:501:GDP:H8	1.59	0.51
8:CM:314:ALA:HB3	8:CM:380:ASN:HB3	1.92	0.51
2:Cd:147:ASP:HA	2:Cd:150:LYS:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cg:22:GLN:NE2	9:OB:39:ASP:O	2.42	0.51
33:Cw:414:THR:OG1	33:Cw:417:ARG:NH1	2.44	0.51
29:D0:402:ARG:O	29:D0:405:ARG:NE	2.43	0.51
29:D5:346:PHE:HB3	29:D5:473:MET:HE1	1.92	0.51
9:DD:190:HIS:HD2	9:DD:411:ALA:HA	1.76	0.51
8:DE:204:VAL:HG12	8:DE:302:MET:HE1	1.93	0.51
8:DE:319:TYR:HB3	8:DE:323:VAL:HG11	1.93	0.51
9:DH:68:LEU:HB2	9:DH:143:THR:HB	1.93	0.51
8:DM:15:GLN:O	8:DM:228:ASN:ND2	2.44	0.51
37:De:238:ARG:NH2	8:TM:245:ASP:OD2	2.44	0.51
29:EA:201:ARG:HH12	29:EA:214:VAL:HG11	1.76	0.51
9:EB:15:GLN:HG3	9:EB:226:ASN:HD21	1.75	0.51
9:EB:155:ILE:HG23	9:EB:159:TYR:HD2	1.76	0.51
8:EE:103:TYR:O	8:EE:107:HIS:HB2	2.11	0.51
8:EM:313:MET:SD	8:EM:313:MET:N	2.78	0.51
44:EV:169:ARG:HD2	44:EV:174:ILE:HD11	1.93	0.51
8:FG:139:HIS:NE2	8:FG:168:GLU:OE2	2.41	0.51
8:FI:414:GLU:N	8:FI:414:GLU:OE2	2.44	0.51
9:FL:211:CYS:HA	9:FL:215:LEU:HB2	1.93	0.51
8:FM:114:ILE:HG22	8:FM:118:VAL:HG13	1.93	0.51
9:FN:117:LEU:HA	9:FN:120:VAL:HG12	1.93	0.51
9:GN:73:MET:HG3	9:GN:92:PHE:CD1	2.46	0.51
8:HC:22:GLU:OE2	8:HC:229:ARG:NH1	2.43	0.51
9:HF:28:HIS:ND1	9:HF:43:GLN:O	2.43	0.51
9:IB:271:ALA:HB1	9:IB:292:GLN:HB3	1.92	0.51
9:ID:427:ASP:N	9:ID:427:ASP:OD2	2.44	0.51
8:IE:439:SER:OG	9:IF:390:ARG:NH1	2.40	0.51
9:IH:14:ASN:HB3	9:IH:76:VAL:HG21	1.91	0.51
8:II:317:MET:HB2	8:II:353:VAL:HA	1.93	0.51
9:IJ:217:LEU:HB3	9:IJ:220:PRO:HD3	1.93	0.51
9:IL:253:LEU:O	9:IL:257:MET:HG2	2.11	0.51
9:IL:265:PHE:HB3	9:IL:374:ILE:HD13	1.92	0.51
9:JN:390:ARG:HD3	66:v:322:ALA:HB2	1.93	0.51
9:KF:48:ASN:O	9:KF:62:ARG:NH2	2.44	0.51
9:KH:73:MET:HA	9:KH:76:VAL:HB	1.93	0.51
8:LG:138:PHE:HZ	8:LG:235:VAL:HG21	1.76	0.51
9:LH:68:LEU:HD13	9:LH:143:THR:HG23	1.93	0.51
9:LJ:229:VAL:HG12	9:LJ:233:MET:HE2	1.93	0.51
9:MB:8:GLN:HE21	9:MB:14:ASN:HA	1.76	0.51
8:MC:286:LEU:HD12	8:MC:371:VAL:HG21	1.91	0.51
8:MG:50:ASN:O	8:MG:64:ARG:NH1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ML:27:GLU:OE1	9:ML:318:ARG:NH2	2.44	0.51
9:ND:120:VAL:HG11	9:ND:155:ILE:HD11	1.92	0.51
8:NE:143:GLY:O	8:NE:186:ASN:ND2	2.44	0.51
9:NH:256:ASN:ND2	9:NH:350:LYS:HE2	2.26	0.51
8:NK:217:LEU:HD11	8:NK:367:ASP:OD1	2.10	0.51
9:NL:107:THR:HG21	9:NL:401:GLU:HB3	1.92	0.51
8:OE:349:THR:OG1	8:OE:350:GLY:N	2.44	0.51
9:PB:15:GLN:NE2	9:PB:226:ASN:OD1	2.44	0.51
9:PB:256:ASN:ND2	9:PB:350:LYS:HD3	2.25	0.51
8:PG:326:LYS:HZ1	9:PH:220:PRO:HD2	1.76	0.51
9:PH:142:GLY:N	69:PH:501:GDP:O1B	2.44	0.51
9:QB:257:MET:HB3	9:QB:266:PHE:CZ	2.45	0.51
9:QF:198:GLU:HB2	9:QF:266:PHE:HE2	1.75	0.51
9:QF:246:LEU:HA	8:QG:11:GLN:HE22	1.76	0.51
9:QL:16:ILE:HA	9:QL:226:ASN:HD21	1.76	0.51
9:RD:248:ALA:HA	9:RD:252:LYS:HD3	1.93	0.51
8:RE:11:GLN:HG3	8:RE:74:VAL:HG21	1.93	0.51
9:RH:62:ARG:NH1	9:RH:127:CYS:SG	2.84	0.51
9:RH:292:GLN:OE1	9:RH:298:ASN:ND2	2.44	0.51
9:RJ:238:THR:HG21	9:RJ:318:ARG:HD3	1.93	0.51
8:RM:26:LEU:HD23	8:RM:363:VAL:HG12	1.93	0.51
9:SB:272:PRO:HG3	9:SB:364:SER:HA	1.93	0.51
8:SG:70:LEU:HB2	8:SG:98:ASP:HA	1.92	0.51
9:SH:284:LEU:HB3	9:SH:363:MET:HB3	1.93	0.51
8:SK:79:ARG:HG3	8:SK:92:LEU:HD13	1.92	0.51
8:TE:212:ILE:HD13	8:TE:302:MET:HE1	1.93	0.51
9:TJ:175:VAL:HG22	9:TJ:205:GLU:OE1	2.10	0.51
9:TJ:322:SER:OG	8:TK:221:ARG:NH2	2.44	0.51
8:TK:9:VAL:HG21	8:TK:153:LEU:HD21	1.93	0.51
9:UB:150:LEU:O	9:UB:154:LYS:HG2	2.11	0.51
9:UH:247:ASN:ND2	8:UI:71:GLU:OE2	2.43	0.51
9:UH:318:ARG:HD3	9:UH:358:PRO:HD3	1.93	0.51
9:UN:102:ALA:HB2	9:UN:403:MET:HE3	1.93	0.51
9:VF:252:LYS:HA	9:VF:255:VAL:HG22	1.93	0.51
8:VG:71:GLU:OE2	8:VG:73:THR:OG1	2.28	0.51
8:VK:287:SER:N	8:VK:290:GLU:OE2	2.42	0.51
8:WC:65:ALA:O	8:WC:91:GLN:NE2	2.44	0.51
9:WJ:376:GLU:HA	9:WJ:379:LYS:HG2	1.93	0.51
9:WN:52:ASN:OD1	9:WN:62:ARG:NH1	2.44	0.51
9:WN:132:GLY:HA3	9:WN:163:ILE:HG22	1.92	0.51
56:XM:79:ILE:HD12	56:XM:164:ARG:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:Y:128:ASP:OD1	47:Y:128:ASP:N	2.40	0.51
3:2:81:VAL:HG23	3:2:85:LYS:HZ3	1.76	0.50
4:3:1321:TRP:HD1	4:3:1381:ILE:HG12	1.77	0.50
8:AI:274:PRO:HG3	8:AI:374:ALA:HA	1.93	0.50
12:AW:140:HIS:HD1	12:AW:143:ARG:HB2	1.76	0.50
13:Aa:492:GLU:OE2	13:Aa:492:GLU:N	2.42	0.50
15:Aq:148:TYR:HA	14:Bd:258:PRO:HB3	1.93	0.50
18:B6:138:ASP:OD1	18:B6:138:ASP:N	2.35	0.50
9:BF:180:VAL:HG22	9:BF:183:TYR:HB2	1.93	0.50
8:BG:372:GLN:HG2	8:BG:373:ARG:HG3	1.93	0.50
20:BT:138:TYR:HB3	20:BT:141:GLN:HB3	1.93	0.50
21:BV:206:ARG:HG3	47:I:20:LEU:HD22	1.93	0.50
28:C5:467:TYR:HE2	28:C5:471:ASP:HB2	1.76	0.50
28:C7:72:SER:HA	28:C7:75:VAL:HG12	1.93	0.50
8:CC:15:GLN:HG2	8:CC:228:ASN:HD21	1.76	0.50
8:CC:278:ALA:HA	8:CC:369:ALA:HB2	1.92	0.50
9:CL:31:ASP:OD1	9:CL:33:THR:OG1	2.29	0.50
2:CV:104:LEU:HA	2:CV:109:ASN:HD22	1.75	0.50
33:Cw:95:MET:HG2	33:Cw:240:ARG:HG3	1.93	0.50
29:D1:274:ARG:HG2	29:D1:277:SER:HB3	1.93	0.50
29:D5:355:ASP:OD1	29:D8:336:TRP:NE1	2.44	0.50
9:DD:308:GLY:HA3	9:DD:373:ALA:HB2	1.93	0.50
9:DH:210:ILE:O	9:DH:214:THR:OG1	2.24	0.50
9:DL:219:THR:O	9:DL:219:THR:OG1	2.24	0.50
29:DR:174:ASP:O	29:DR:178:ARG:HG3	2.11	0.50
29:DX:318:ILE:HG22	29:DX:321:ARG:HH22	1.76	0.50
9:EB:135:LEU:HB3	9:EB:166:THR:HG22	1.93	0.50
8:EC:203:MET:HE2	8:EC:203:MET:HA	1.93	0.50
44:EZ:152:VAL:HG21	44:EZ:179:GLU:HG2	1.94	0.50
42:F:511:TRP:O	42:F:513:HIS:N	2.43	0.50
9:FB:55:THR:HB	9:GB:283:ALA:HA	1.93	0.50
8:FE:382:THR:HA	8:FE:432:TYR:HE1	1.75	0.50
8:FG:104:ALA:HA	8:FG:413:MET:HE1	1.92	0.50
8:FG:207:GLU:HB2	67:FG:501:GTP:HN21	1.76	0.50
9:FJ:95:SER:OG	9:FJ:108:GLU:OE1	2.28	0.50
9:GD:290:THR:HA	9:GD:293:MET:HB2	1.92	0.50
67:GJ:502:GTP:O2A	8:GK:140:SER:OG	2.24	0.50
9:GL:107:THR:OG1	9:GL:108:GLU:N	2.44	0.50
8:HC:253:THR:HG21	9:HD:103:LYS:HZ2	1.75	0.50
8:HE:408:TYR:HD1	8:HE:418:PHE:CZ	2.27	0.50
8:HO:252:LEU:N	8:HO:254:GLU:OE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IC:289:ALA:O	8:IC:293:ASN:ND2	2.44	0.50
9:ID:97:ALA:O	9:ID:103:LYS:NZ	2.44	0.50
8:IG:388:TRP:HB3	8:IG:425:LEU:HD21	1.93	0.50
9:IH:239:CYS:HB3	9:IH:248:ALA:H	1.76	0.50
8:IM:168:GLU:OE2	8:IM:194:THR:OG1	2.29	0.50
8:IO:317:MET:HB2	8:IO:353:VAL:HA	1.93	0.50
9:JJ:314:ALA:HB3	9:JJ:368:ILE:HB	1.93	0.50
9:JN:52:ASN:OD1	9:JN:53:GLU:N	2.44	0.50
9:KL:48:ASN:O	9:KL:62:ARG:NH2	2.44	0.50
50:L2:64:PRO:HB3	9:WN:362:LYS:HB2	1.93	0.50
8:LM:328:VAL:HG11	8:LM:353:VAL:HG21	1.93	0.50
9:MH:139:LEU:HD12	9:MH:170:VAL:HG12	1.92	0.50
9:MJ:2:ARG:NH1	9:MJ:249:ASP:OD1	2.44	0.50
8:NC:265:ILE:HG21	8:NC:313:MET:HE2	1.93	0.50
8:NE:392:ASP:HB3	8:NE:422:ARG:HH12	1.76	0.50
8:NG:195:LEU:HD21	8:NG:264:ARG:HH11	1.76	0.50
8:NG:428:LEU:O	8:NG:432:TYR:HB2	2.10	0.50
8:NK:107:HIS:HD2	8:NK:152:LEU:HB2	1.76	0.50
9:NL:125:GLU:N	9:NL:125:GLU:OE1	2.44	0.50
8:OE:167:LEU:HD23	8:OE:200:CYS:HB2	1.93	0.50
8:PA:288:VAL:HA	8:PA:291:ILE:HG12	1.93	0.50
9:PD:68:LEU:HD22	9:PD:97:ALA:HB2	1.92	0.50
9:PF:290:THR:HG21	9:PF:329:GLN:HB3	1.94	0.50
8:QA:269:LEU:HD13	8:QA:303:VAL:HB	1.92	0.50
9:QB:247:ASN:OD1	8:QC:73:THR:OG1	2.28	0.50
8:QE:115:VAL:HG21	8:QE:152:LEU:HG	1.92	0.50
9:RH:347:ASN:N	9:RH:347:ASN:OD1	2.44	0.50
8:SA:233:GLN:HG2	8:SA:272:TYR:HE2	1.76	0.50
8:SA:329:ASN:N	8:SA:329:ASN:OD1	2.40	0.50
9:SB:290:THR:HG21	9:SB:329:GLN:HB3	1.92	0.50
9:SH:180:VAL:HG13	9:SH:184:ASN:HD21	1.76	0.50
8:SK:297:GLU:HG2	8:SK:298:PRO:HD2	1.93	0.50
8:TE:168:GLU:OE2	8:TE:168:GLU:N	2.44	0.50
9:TL:324:LYS:HB2	8:TM:222:PRO:HD2	1.93	0.50
8:UC:132:LEU:HD23	8:UC:164:LYS:HZ2	1.76	0.50
8:UE:311:LYS:HZ1	8:UE:342:GLN:CD	2.15	0.50
1:V:155:THR:O	1:V:159:GLU:HB2	2.12	0.50
8:VC:140:SER:OG	67:VC:501:GTP:O2A	2.20	0.50
9:VF:287:PRO:HB3	9:VF:329:GLN:NE2	2.26	0.50
8:VG:385:ALA:HA	8:VG:388:TRP:HD1	1.76	0.50
9:VN:11:GLN:OE1	9:VN:11:GLN:N	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WB:218:THR:OG1	9:WB:219:THR:N	2.43	0.50
59:b:241:GLN:NE2	59:b:242:GLU:OE1	2.44	0.50
59:b:457:LYS:NZ	59:b:461:GLU:OE2	2.44	0.50
60:f:480:VAL:HG11	60:f:520:ILE:HD11	1.92	0.50
60:g:177:PHE:HE1	60:g:185:ILE:HG23	1.77	0.50
7:A8:186:ARG:HH21	8:SI:118:VAL:N	2.07	0.50
9:AB:392:LYS:HG3	9:AB:395:LEU:HD12	1.91	0.50
9:AD:132:GLY:HA3	9:AD:163:ILE:HG22	1.93	0.50
10:AP:116:LYS:NZ	10:AP:117:PRO:O	2.44	0.50
13:Ad:489:LYS:NZ	13:Ad:491:GLU:HA	2.27	0.50
7:Ay:78:ARG:HD3	8:FI:90:GLU:HG2	1.93	0.50
8:BM:79:ARG:NH2	8:BM:92:LEU:O	2.43	0.50
9:CD:395:LEU:HA	9:CD:398:TYR:HD2	1.77	0.50
8:CI:316:CYS:HB3	8:CI:378:LEU:HB2	1.92	0.50
8:CM:8:HIS:HA	8:CM:138:PHE:HB2	1.93	0.50
2:CZ:104:LEU:O	2:CZ:109:ASN:ND2	2.44	0.50
8:DA:276:ILE:HD11	8:DA:286:LEU:HD11	1.93	0.50
8:DG:97:GLU:N	8:DG:97:GLU:OE1	2.44	0.50
8:DG:292:THR:OG1	8:DG:319:TYR:OH	2.28	0.50
9:DH:249:ASP:H	9:DH:252:LYS:HB3	1.75	0.50
8:DM:301:GLN:N	8:DM:301:GLN:OE1	2.44	0.50
8:EI:53:PHE:O	8:EI:64:ARG:NH1	2.44	0.50
9:EJ:41:ASP:N	9:EJ:41:ASP:OD1	2.43	0.50
29:EO:274:ARG:HE	44:EY:316:HIS:CD2	2.27	0.50
29:EQ:208:ASP:OD2	29:EQ:464:THR:OG1	2.28	0.50
9:FL:90:PHE:HB3	9:FL:92:PHE:CE2	2.42	0.50
9:FL:318:ARG:HH21	9:FL:358:PRO:HG3	1.76	0.50
9:GH:150:LEU:O	9:GH:154:LYS:HG2	2.12	0.50
8:GM:328:VAL:HG21	8:GM:355:ILE:HD11	1.93	0.50
46:H:574:ARG:HH22	46:H:575:LEU:HD23	1.76	0.50
9:HH:326:VAL:O	9:HH:330:MET:HG2	2.12	0.50
8:HO:166:LYS:N	8:HO:199:ASP:OD2	2.44	0.50
8:HO:269:LEU:HD21	8:HO:384:ILE:HD11	1.94	0.50
8:IC:363:VAL:HG23	8:IC:366:GLY:HA3	1.93	0.50
8:IG:265:ILE:HD11	8:IG:435:VAL:HG11	1.93	0.50
9:IJ:125:GLU:OE2	9:IJ:159:TYR:OH	2.29	0.50
9:IL:221:THR:N	9:IL:224:ASP:OD2	2.41	0.50
8:JC:192:HIS:ND1	8:JC:424:ASP:OD2	2.42	0.50
8:JG:406:HIS:HA	8:JG:409:VAL:HG12	1.94	0.50
9:JH:150:LEU:HD11	9:JH:154:LYS:HZ2	1.76	0.50
9:KB:275:SER:OG	9:KB:276:ARG:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KN:293:MET:HE3	9:KN:367:PHE:HD1	1.75	0.50
8:LK:91:GLN:HE21	8:LK:125:LEU:HD21	1.76	0.50
9:MF:238:THR:HG21	9:MF:318:ARG:HD2	1.94	0.50
8:NC:402:ARG:HH21	8:NC:415:GLU:HG2	1.76	0.50
8:NG:73:THR:HG23	8:NG:74:VAL:HG13	1.92	0.50
9:O0:2:ARG:HB3	9:O0:131:GLN:HE22	1.77	0.50
8:OA:273:ALA:HB2	8:OA:295:CYS:SG	2.51	0.50
9:OB:309:ARG:NH1	9:OB:426:GLN:O	2.44	0.50
9:PH:139:LEU:HD12	9:PH:170:VAL:HA	1.92	0.50
8:PI:438:ASP:OD2	9:PJ:391:ARG:NH2	2.44	0.50
8:PM:9:VAL:HG11	8:PM:150:ALA:HB2	1.93	0.50
9:QD:299:MET:SD	9:QD:299:MET:N	2.82	0.50
8:QE:123:ARG:NH2	8:QE:160:ASP:OD2	2.44	0.50
8:QG:286:LEU:O	8:QG:373:ARG:NE	2.35	0.50
9:QL:271:ALA:HB2	9:QL:293:MET:HB2	1.94	0.50
8:QM:185:TYR:HE1	8:QM:398:MET:HE1	1.76	0.50
8:RE:76:ASP:OD1	8:RE:79:ARG:NH1	2.44	0.50
9:RL:316:VAL:HG12	9:RL:352:ALA:HB3	1.94	0.50
67:SF:502:GTP:C6	8:SG:224:TYR:HE2	2.28	0.50
8:SI:320:ARG:O	8:SI:374:ALA:N	2.43	0.50
9:TB:274:THR:OG1	9:TB:279:GLN:OE1	2.27	0.50
8:TC:399:TYR:OH	8:TC:415:GLU:OE2	2.29	0.50
8:TE:438:ASP:N	8:TE:438:ASP:OD1	2.45	0.50
9:TJ:296:ALA:HA	9:TJ:299:MET:HE2	1.92	0.50
8:TK:269:LEU:HD22	8:TK:303:VAL:HG21	1.94	0.50
9:UD:99:ASN:HA	9:UD:142:GLY:HA3	1.93	0.50
9:UH:113:VAL:O	9:UH:117:LEU:HB2	2.10	0.50
8:UI:332:ILE:HA	8:UI:335:ILE:HG22	1.94	0.50
9:UL:230:SER:HA	9:UL:233:MET:HB2	1.93	0.50
8:VC:168:GLU:HB2	8:VC:201:ALA:HA	1.93	0.50
8:VK:277:SER:OG	8:VK:278:ALA:N	2.44	0.50
9:VN:279:GLN:HG3	59:b:234:ARG:NH2	2.26	0.50
9:WF:304:ASP:HB2	9:WF:306:ARG:NH2	2.26	0.50
9:WH:125:GLU:HB3	56:XJ:17:ILE:HG12	1.92	0.50
9:WJ:218:THR:OG1	9:WJ:219:THR:N	2.41	0.50
9:WL:27:GLU:HA	9:WL:359:ARG:HH12	1.76	0.50
9:WL:202:ILE:HG23	9:WL:300:MET:HB3	1.93	0.50
8:WM:169:PHE:HE1	8:WM:202:PHE:CD1	2.28	0.50
60:e:98:LEU:HB3	60:e:108:ALA:HB3	1.93	0.50
60:e:356:LYS:HA	60:e:379:THR:HA	1.93	0.50
60:g:379:THR:OG1	60:g:397:ASP:OD2	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0G:127:SER:OG	8:OK:84:ARG:NH1	2.44	0.50
3:1:263:ARG:HA	3:1:268:ARG:HB3	1.94	0.50
3:2:70:PRO:O	3:2:149:ARG:NH2	2.44	0.50
7:A1:114:HIS:CD2	8:OG:96:LYS:H	2.29	0.50
7:A8:182:PRO:CA	8:SI:123:ARG:HH12	2.21	0.50
8:AG:256:GLN:HE21	9:AH:397:TRP:HH2	1.59	0.50
8:AI:204:VAL:HG11	8:AI:231:ILE:HD12	1.94	0.50
8:AM:426:ALA:O	8:AM:430:LYS:HE2	2.12	0.50
12:AW:176:LEU:HD11	12:AW:205:ALA:HB3	1.94	0.50
7:Ay:116:PHE:HB3	8:GG:214:ARG:HH12	1.76	0.50
17:B1:26:LYS:HE3	8:NI:364:PRO:HA	1.94	0.50
8:BC:139:HIS:NE2	8:BC:168:GLU:OE2	2.45	0.50
9:BH:66:VAL:HG23	9:BH:91:VAL:HG13	1.92	0.50
8:BK:64:ARG:NH1	8:BK:129:CYS:SG	2.85	0.50
8:BM:320:ARG:HG3	8:BM:374:ALA:HB3	1.94	0.50
14:Ba:267:PRO:HB2	14:Ba:270:HIS:NE2	2.27	0.50
8:CA:11:GLN:HA	8:CA:14:VAL:HG22	1.93	0.50
30:CW:441:ASN:C	30:CW:441:ASN:HD22	2.19	0.50
2:Cb:134:HIS:O	2:Cb:136:GLY:N	2.44	0.50
29:Cz:298:THR:HA	29:Cz:301:LYS:HE3	1.94	0.50
29:D3:402:ARG:NH1	29:D3:415:PRO:O	2.45	0.50
9:DD:268:PRO:HD2	9:DD:300:MET:HB2	1.94	0.50
8:DE:150:ALA:O	8:DE:154:MET:HG2	2.12	0.50
8:DI:103:TYR:CD2	8:DI:148:GLY:HA2	2.46	0.50
9:DJ:183:TYR:HE2	9:DJ:394:PHE:HB2	1.75	0.50
39:Dj:38:SER:OG	8:LE:443:GLU:OE2	2.26	0.50
43:E3:108:ALA:HA	43:E3:111:GLN:HE21	1.76	0.50
9:EH:344:TRP:HZ3	8:EI:403:ALA:HB2	1.76	0.50
8:EM:21:TRP:CH2	8:EM:63:PRO:HB3	2.46	0.50
9:EN:176:SER:OG	9:EN:181:GLU:OE1	2.26	0.50
28:F6:49:PRO:O	28:F6:51:ARG:NE	2.45	0.50
9:FB:23:VAL:HG11	9:FB:230:SER:HB2	1.92	0.50
9:FF:232:THR:HG21	9:FF:300:MET:HE1	1.92	0.50
8:FI:245:ASP:OD1	8:FI:245:ASP:N	2.40	0.50
9:FJ:3:GLU:N	9:FJ:3:GLU:OE2	2.43	0.50
9:FN:289:LEU:O	9:FN:293:MET:HG3	2.12	0.50
8:GE:297:GLU:OE1	8:GE:300:ASN:ND2	2.43	0.50
8:HC:11:GLN:HA	8:HC:14:VAL:HG22	1.92	0.50
9:HF:217:LEU:HG	9:HF:220:PRO:HD3	1.93	0.50
9:HF:326:VAL:O	9:HF:330:MET:HG2	2.12	0.50
9:HH:275:SER:HB3	9:HH:278:SER:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HJ:326:VAL:O	9:HJ:330:MET:HG2	2.12	0.50
8:HK:180:ALA:HB3	8:HK:183:GLU:HG2	1.92	0.50
9:HL:131:GLN:HA	9:HL:162:ARG:HH21	1.76	0.50
9:IB:151:LEU:O	9:IB:155:ILE:HG13	2.12	0.50
9:IB:259:PRO:HB3	8:IC:404:PHE:CE2	2.46	0.50
8:IC:26:LEU:HD11	8:IC:364:PRO:HD2	1.93	0.50
8:IO:269:LEU:HD13	8:IO:303:VAL:HG21	1.93	0.50
9:JH:272:PRO:HG3	9:JH:364:SER:HA	1.94	0.50
8:JK:109:THR:HG21	8:JK:411:GLU:HB3	1.94	0.50
9:KF:133:PHE:HB2	9:KF:164:MET:HE1	1.93	0.50
8:KI:188:ILE:HG13	8:KI:395:LEU:HD13	1.93	0.50
9:LB:324:LYS:HB3	8:LC:222:PRO:HD2	1.93	0.50
8:LC:430:LYS:HB3	54:U:247:PRO:HG3	1.93	0.50
9:MH:1:MET:HE1	9:MH:46:ARG:HD3	1.92	0.50
9:MH:247:ASN:ND2	8:MI:71:GLU:OE2	2.44	0.50
9:MJ:324:LYS:HD2	8:MK:210:TYR:CE1	2.47	0.50
8:NA:230:LEU:HD21	8:NA:302:MET:HE1	1.92	0.50
9:NB:344:TRP:CD1	8:NC:401:LYS:HZ1	2.28	0.50
9:OJ:378:PHE:HA	9:OJ:381:ILE:HG22	1.94	0.50
9:OL:3:GLU:HG3	9:OL:127:CYS:HB3	1.94	0.50
52:P:86:LEU:HD11	52:P:108:LEU:HG	1.93	0.50
9:PB:415:MET:O	9:PB:419:VAL:HG12	2.11	0.50
9:PF:350:LYS:NZ	9:PF:351:THR:O	2.36	0.50
9:PH:324:LYS:NZ	9:PH:325:GLU:OE2	2.44	0.50
9:PL:165:ASN:ND2	9:PL:198:GLU:OE1	2.44	0.50
8:QC:88:HIS:CD2	8:QC:88:HIS:H	2.30	0.50
8:QI:235:VAL:O	8:QI:239:THR:HG22	2.11	0.50
8:RI:208:ALA:O	8:RI:212:ILE:HG12	2.12	0.50
9:SD:19:LYS:NZ	9:SD:227:HIS:HB2	2.25	0.50
9:SD:314:ALA:HB3	9:SD:368:ILE:HB	1.93	0.50
8:SG:33:ASP:HB3	8:SG:85:GLN:HE21	1.77	0.50
8:SG:271:THR:HB	8:SG:377:MET:HB3	1.93	0.50
9:SJ:1:MET:HE3	8:SK:96:LYS:HD3	1.94	0.50
8:SK:7:ILE:HB	8:SK:137:ILE:HG22	1.94	0.50
8:SM:60:LYS:NZ	8:SM:61:HIS:O	2.45	0.50
8:SM:79:ARG:NH2	8:SM:94:THR:OG1	2.44	0.50
9:TH:135:LEU:CD2	9:TH:137:HIS:HE1	2.24	0.50
8:TI:47:ASP:OD1	8:TI:47:ASP:N	2.43	0.50
8:TK:70:LEU:HD21	8:TK:114:ILE:HG21	1.93	0.50
8:TM:31:GLN:HG3	8:TM:32:PRO:HD2	1.93	0.50
9:UB:3:GLU:HG3	9:UB:127:CYS:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UB:404:ASP:OD1	9:UB:405:GLU:N	2.44	0.50
9:UD:258:VAL:HG13	8:UE:407:TRP:HE1	1.77	0.50
8:UE:231:ILE:O	8:UE:235:VAL:HG23	2.11	0.50
8:UG:406:HIS:HA	8:UG:409:VAL:HG22	1.92	0.50
9:UH:284:LEU:HD23	9:UH:362:LYS:HB2	1.94	0.50
8:UK:439:SER:HB3	9:UL:391:ARG:HH21	1.75	0.50
9:UN:139:LEU:HA	9:UN:145:SER:HB2	1.92	0.50
9:VF:183:TYR:HE2	9:VF:394:PHE:HB2	1.76	0.50
8:VI:204:VAL:HG13	8:VI:302:MET:HB3	1.92	0.50
8:VI:370:LYS:HE3	59:b:370:LEU:HD23	1.92	0.50
9:VL:307:HIS:ND1	9:VL:376:GLU:OE1	2.44	0.50
9:WB:287:PRO:HA	9:WB:290:THR:HG22	1.93	0.50
9:WD:236:VAL:HG12	9:WD:368:ILE:HD11	1.93	0.50
8:WK:181:VAL:HG13	8:WK:182:VAL:HG13	1.94	0.50
56:XG:92:GLN:NE2	56:XG:152:LEU:HD23	2.26	0.50
63:m:114:THR:HG21	63:m:148:PHE:HB3	1.92	0.50
66:w:360:ASP:OD1	66:w:372:TYR:OH	2.27	0.50
7:A1:198:PRO:O	9:PB:329:GLN:NE2	2.38	0.50
7:A8:176:LEU:HD12	7:A8:177:HIS:H	1.76	0.50
9:AD:172:SER:OG	9:AD:203:ASP:OD1	2.23	0.50
8:AG:27:GLU:OE2	8:AG:243:ARG:NH1	2.43	0.50
13:Ab:613:LEU:HA	13:Ab:616:ASN:HD21	1.77	0.50
13:Ab:630:TYR:HE2	47:I:502:ARG:HE	1.60	0.50
13:Ad:87:ARG:NH1	13:Ad:154:TYR:OH	2.44	0.50
7:Av:179:THR:HG22	7:Av:181:GLY:H	1.76	0.50
9:BF:323:MET:HE1	9:BF:353:VAL:HB	1.92	0.50
9:BL:86:ARG:HA	9:CL:281:TYR:HD2	1.76	0.50
27:Bs:464:LEU:HD13	27:Bs:469:PHE:CE1	2.45	0.50
18:Bz:124:PRO:HG3	8:LG:109:THR:HG22	1.93	0.50
8:CC:9:VAL:HA	8:CC:68:VAL:HG23	1.92	0.50
8:CC:259:LEU:HD21	8:CC:316:CYS:HB2	1.93	0.50
8:CI:319:TYR:HB3	8:CI:323:VAL:HG21	1.93	0.50
8:CI:328:VAL:O	8:CI:332:ILE:HD12	2.11	0.50
8:CK:236:SER:OG	8:CK:243:ARG:NH2	2.43	0.50
2:Ca:12:VAL:HG11	2:Ca:77:LEU:HD21	1.94	0.50
32:Cp:143:ILE:O	32:Cp:147:MET:HG2	2.11	0.50
33:Cr:417:ARG:NH2	44:EV:407:ASP:OD2	2.44	0.50
8:DA:317:MET:HE1	8:DA:328:VAL:HG21	1.94	0.50
8:DG:181:VAL:HG13	8:DG:182:VAL:HG13	1.92	0.50
8:DI:88:HIS:NE2	8:EI:284:GLU:OE2	2.44	0.50
8:DI:169:PHE:HZ	8:DI:238:ILE:HD12	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:15:GLN:O	8:DK:228:ASN:ND2	2.45	0.50
37:De:235:TRP:HE1	37:De:238:ARG:HG2	1.76	0.50
43:E3:97:CYS:O	43:E3:101:ARG:HB2	2.11	0.50
8:EC:1:MET:N	8:EC:1:MET:SD	2.83	0.50
9:ED:184:ASN:O	9:ED:188:SER:OG	2.24	0.50
9:ED:359:ARG:HH11	9:ED:359:ARG:HG3	1.75	0.50
9:EJ:130:LEU:O	9:EJ:162:ARG:NH2	2.44	0.50
8:EM:223:THR:OG1	8:EM:224:TYR:N	2.45	0.50
44:EU:162:ARG:HG2	44:EU:425:ILE:HD11	1.93	0.50
42:F:344:PRO:HD2	8:IG:221:ARG:HH21	1.77	0.50
8:FE:254:GLU:HG2	9:FF:98:GLY:HA2	1.93	0.50
8:FI:390:ARG:HH11	8:FI:390:ARG:HG3	1.75	0.50
9:FJ:150:LEU:O	9:FJ:154:LYS:HG2	2.11	0.50
9:GH:417:ASP:O	9:GH:421:GLU:HG2	2.12	0.50
8:HM:327:ASP:N	8:HM:327:ASP:OD2	2.44	0.50
9:IB:210:ILE:HD11	9:IB:298:ASN:HA	1.93	0.50
9:IH:183:TYR:O	9:IH:187:LEU:HG	2.12	0.50
9:JF:204:ASN:HD21	69:JF:501:GDP:HN22	1.60	0.50
8:JG:240:ALA:HB1	8:JG:356:ASN:HD22	1.77	0.50
8:KG:11:GLN:HG3	8:KG:74:VAL:HG21	1.93	0.50
8:KI:7:ILE:HG21	8:KI:153:LEU:HD21	1.94	0.50
9:LL:74:ASP:HB3	47:Y:27:ARG:HD3	1.93	0.50
9:MD:36:TYR:OH	9:MD:40:SER:O	2.30	0.50
8:MG:158:SER:OG	8:MG:166:LYS:NZ	2.45	0.50
8:MI:188:ILE:HG13	8:MI:395:LEU:HD13	1.93	0.50
8:MK:336:LYS:HE2	61:h:20:LYS:HG2	1.93	0.50
8:MM:188:ILE:HD11	8:MM:425:LEU:HD22	1.94	0.50
8:NA:54:SER:HB3	8:NA:64:ARG:HH21	1.77	0.50
9:NH:25:SER:OG	9:NH:30:ILE:O	2.30	0.50
8:NI:73:THR:HG23	8:NI:74:VAL:HG13	1.93	0.50
9:OB:333:VAL:O	9:OB:337:ASN:ND2	2.40	0.50
8:OC:9:VAL:HG12	8:OC:68:VAL:HG22	1.92	0.50
8:OC:234:ILE:HD11	8:OC:272:TYR:HB2	1.93	0.50
9:OD:152:ILE:HA	9:OD:155:ILE:HG22	1.94	0.50
8:OE:139:HIS:ND1	8:OE:146:GLY:O	2.43	0.50
9:OH:1:MET:HG2	8:OI:96:LYS:HE3	1.94	0.50
9:PB:172:SER:OG	9:PB:205:GLU:HG2	2.11	0.50
8:PC:294:ALA:O	8:PC:300:ASN:ND2	2.41	0.50
9:PD:73:MET:HA	9:PD:76:VAL:HG12	1.92	0.50
9:PH:321:MET:SD	9:PH:322:SER:N	2.84	0.50
8:PI:124:LYS:HD2	8:QI:290:GLU:HG2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QG:9:VAL:HA	8:QG:68:VAL:HB	1.94	0.50
9:QJ:16:ILE:HD13	9:QJ:136:THR:HG21	1.93	0.50
8:QM:332:ILE:HA	8:QM:335:ILE:HD12	1.93	0.50
8:RA:320:ARG:HH21	8:RA:360:PRO:HB3	1.77	0.50
9:RB:167:PHE:CE1	9:RB:233:MET:HB2	2.45	0.50
9:RD:103:LYS:HG2	9:RD:108:GLU:HG3	1.93	0.50
9:RH:73:MET:HB3	9:RH:77:ARG:HH21	1.76	0.50
9:RH:364:SER:OG	9:RH:365:ALA:N	2.45	0.50
8:RI:31:GLN:HG2	8:RI:37:PRO:HD3	1.94	0.50
9:RJ:42:LEU:HD23	9:RJ:356:ILE:HD11	1.93	0.50
9:RJ:173:PRO:HA	9:RJ:380:ARG:HH21	1.76	0.50
9:RJ:316:VAL:HA	9:RJ:352:ALA:HB3	1.93	0.50
54:S:271:VAL:O	54:S:282:THR:OG1	2.27	0.50
9:SB:237:THR:HG23	9:SB:241:ARG:NH1	2.25	0.50
9:SH:406:MET:SD	9:SH:406:MET:N	2.76	0.50
9:SJ:170:VAL:N	9:SJ:202:ILE:O	2.42	0.50
9:TB:376:GLU:HA	9:TB:379:LYS:HG2	1.94	0.50
9:TJ:31:ASP:OD2	9:TJ:37:HIS:CE1	2.64	0.50
9:TJ:313:VAL:HG13	9:TJ:367:PHE:HE1	1.76	0.50
8:UC:154:MET:HE1	8:UC:168:GLU:OE1	2.11	0.50
8:UE:169:PHE:HE1	8:UE:235:VAL:HG13	1.77	0.50
9:UJ:139:LEU:HD23	9:UJ:188:SER:HB3	1.94	0.50
9:UJ:271:ALA:O	9:UJ:292:GLN:NE2	2.45	0.50
9:UJ:276:ARG:NH2	59:d:451:GLN:OE1	2.38	0.50
9:VB:252:LYS:HA	9:VB:255:VAL:HG22	1.93	0.50
8:VC:241:SER:OG	8:VC:250:VAL:O	2.29	0.50
8:VE:239:THR:OG1	8:VE:243:ARG:NH2	2.42	0.50
8:VI:26:LEU:HD21	8:VI:364:PRO:HD2	1.93	0.50
9:WN:122:LYS:HZ3	57:YG:215:GLN:H	1.60	0.50
57:YL:121:PHE:HB3	57:YL:122:PRO:HD2	1.94	0.50
59:c:316:ILE:O	59:c:320:ASN:ND2	2.45	0.50
60:e:260:CYS:SG	60:e:301:LEU:HD21	2.51	0.50
7:A3:246:MET:O	9:PB:94:GLN:NE2	2.45	0.50
9:AD:230:SER:HA	9:AD:233:MET:HB2	1.94	0.50
9:AF:100:ASN:HB3	9:AF:103:LYS:HB2	1.94	0.50
9:AF:332:ASN:O	9:AF:336:LYS:HB2	2.11	0.50
13:Ac:541:GLU:HG2	13:Ac:544:LYS:HD3	1.93	0.50
13:Ad:268:ARG:HH22	9:CB:80:PRO:HD3	1.77	0.50
13:Ad:547:GLU:OE2	29:DW:436:ARG:NH2	2.37	0.50
15:Ar:140:LEU:HG	32:Cn:148:THR:HG23	1.92	0.50
8:BA:433:GLU:OE1	8:BA:433:GLU:N	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BI:195:LEU:HD21	8:BI:264:ARG:HE	1.75	0.50
9:BJ:191:GLN:N	9:BJ:191:GLN:OE1	2.45	0.50
19:BO:154:LEU:HD23	19:BO:224:LEU:HD13	1.94	0.50
28:C2:109:GLU:OE1	28:C3:451:THR:OG1	2.27	0.50
9:CB:167:PHE:CE1	9:CB:233:MET:HG2	2.47	0.50
9:CF:66:VAL:HG22	9:CF:91:VAL:HB	1.93	0.50
8:CG:319:TYR:HB2	8:CG:355:ILE:HD13	1.92	0.50
9:CJ:314:ALA:HB3	9:CJ:368:ILE:HB	1.92	0.50
2:Ck:13:GLU:HA	2:Ck:16:TYR:HB3	1.93	0.50
29:D2:147:GLN:OE1	29:D3:143:ARG:NH2	2.45	0.50
9:DD:200:TYR:HB3	9:DD:268:PRO:HG3	1.94	0.50
9:DJ:316:VAL:HG13	9:DJ:366:THR:HB	1.93	0.50
8:DK:286:LEU:O	8:DK:373:ARG:NH1	2.39	0.50
8:DK:313:MET:HG2	8:DK:380:ASN:HB3	1.94	0.50
8:DM:71:GLU:HB3	8:DM:98:ASP:HB3	1.94	0.50
29:DV:128:GLN:HE22	29:DV:321:ARG:CZ	2.24	0.50
36:Dc:163:PRO:HB3	36:Dc:168:LEU:HD13	1.94	0.50
43:E1:168:VAL:HG11	28:F3:122:VAL:HG22	1.93	0.50
8:EE:278:ALA:HA	8:EE:369:ALA:HB2	1.92	0.50
8:EG:286:LEU:O	8:EG:373:ARG:NE	2.38	0.50
9:EH:255:VAL:HG23	8:EI:407:TRP:CD1	2.46	0.50
9:EL:290:THR:HA	9:EL:293:MET:HB2	1.93	0.50
9:EN:73:MET:HG3	9:EN:92:PHE:HD2	1.75	0.50
29:EQ:402:ARG:HH12	29:EQ:415:PRO:HB2	1.76	0.50
44:EW:29:VAL:HG22	44:EZ:281:LEU:HD11	1.93	0.50
44:EX:252:SER:HB3	44:EY:369:CYS:HB3	1.92	0.50
44:EY:370:ARG:HH21	44:EY:375:PHE:HE1	1.60	0.50
9:FB:156:ARG:NH2	9:FB:197:ASP:OD1	2.43	0.50
9:FF:128:ASP:OD1	9:FF:128:ASP:N	2.37	0.50
9:FF:186:THR:HG23	9:FF:415:MET:HE2	1.92	0.50
8:FG:85:GLN:N	8:FG:85:GLN:OE1	2.43	0.50
8:FM:2:ARG:HB3	8:FM:242:LEU:HD22	1.93	0.50
8:GC:221:ARG:NH1	8:GC:221:ARG:HB2	2.26	0.50
9:GN:156:ARG:NH2	9:GN:197:ASP:OD1	2.44	0.50
9:HB:404:ASP:HB3	9:HB:406:MET:SD	2.51	0.50
9:HD:180:VAL:HG22	9:HD:183:TYR:HB2	1.92	0.50
9:HD:322:SER:HA	8:HE:223:THR:HG22	1.94	0.50
8:HK:70:LEU:HD12	8:HK:99:ALA:HB2	1.94	0.50
8:HK:271:THR:OG1	8:HK:301:GLN:OE1	2.29	0.50
8:HO:239:THR:O	8:HO:243:ARG:NH1	2.44	0.50
47:I:29:GLN:HE21	8:LG:1:MET:H3	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IH:54:ALA:HA	8:JG:285:GLN:HG3	1.94	0.50
9:JD:39:ASP:N	9:JD:39:ASP:OD2	2.41	0.50
9:JD:117:LEU:HD11	9:JD:154:LYS:HD3	1.92	0.50
8:JG:151:SER:HB3	8:JG:193:THR:HG21	1.92	0.50
49:K1:20:LEU:HD23	49:K1:24:TYR:OH	2.12	0.50
9:KH:121:ARG:NE	9:KH:158:GLU:OE2	2.36	0.50
8:KI:211:ASP:OD1	8:KI:214:ARG:NH2	2.43	0.50
9:KN:271:ALA:HB2	9:KN:293:MET:HG3	1.93	0.50
8:LC:402:ARG:NH1	8:LC:415:GLU:OE2	2.44	0.50
9:LH:156:ARG:NH1	9:LH:197:ASP:OD1	2.45	0.50
9:MN:141:GLY:O	9:MN:145:SER:OG	2.30	0.50
9:NB:256:ASN:HD22	8:NC:181:VAL:H	1.59	0.50
8:NE:241:SER:OG	8:NE:250:VAL:O	2.27	0.50
9:NH:20:PHE:CE1	9:NH:233:MET:HG2	2.46	0.50
8:NK:414:GLU:N	8:NK:414:GLU:OE1	2.45	0.50
9:NL:296:ALA:HB1	9:NL:305:PRO:HD2	1.94	0.50
9:OB:64:VAL:HG11	9:OB:120:VAL:HG22	1.93	0.50
9:OB:245:GLN:O	8:OC:11:GLN:NE2	2.44	0.50
9:OB:287:PRO:HB3	9:OB:329:GLN:NE2	2.26	0.50
8:OG:115:VAL:HA	8:OG:118:VAL:HG12	1.93	0.50
9:PF:237:THR:OG1	9:PF:241:ARG:NH1	2.44	0.50
8:PI:339:ARG:O	8:PI:342:GLN:NE2	2.44	0.50
9:PJ:153:SER:HA	9:PJ:195:ASN:HD21	1.76	0.50
9:PJ:171:PRO:HG2	9:PJ:381:ILE:HD11	1.93	0.50
8:PK:190:THR:O	8:PK:194:THR:OG1	2.23	0.50
9:QB:73:MET:HE1	9:QB:90:PHE:HB3	1.94	0.50
9:QB:371:SER:OG	9:QB:372:THR:N	2.45	0.50
8:QE:248:LEU:H	8:QE:355:ILE:HB	1.76	0.50
8:QG:298:PRO:HA	8:QG:301:GLN:HG3	1.94	0.50
9:QH:178:THR:HB	9:QH:181:GLU:HG3	1.92	0.50
9:QH:190:HIS:NE2	9:QH:410:GLU:OE1	2.44	0.50
8:QI:115:VAL:HA	8:QI:118:VAL:HG22	1.93	0.50
8:RC:7:ILE:HD11	8:RC:122:ILE:HD11	1.94	0.50
9:RD:188:SER:O	9:RD:192:LEU:HB2	2.12	0.50
9:RF:272:PRO:HG3	9:RF:364:SER:HA	1.93	0.50
8:RI:9:VAL:HG11	8:RI:150:ALA:HB2	1.94	0.50
9:RL:45:GLU:HG2	9:RL:46:ARG:HG2	1.92	0.50
9:RL:314:ALA:N	9:RL:368:ILE:O	2.45	0.50
8:SE:195:LEU:HD11	8:SE:428:LEU:HD22	1.92	0.50
8:SE:329:ASN:OD1	9:SF:175:VAL:HG22	2.11	0.50
8:SE:403:ALA:O	8:SE:405:VAL:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SE:414:GLU:OE1	8:SE:414:GLU:N	2.44	0.50
9:SF:67:ASP:OD2	9:SF:72:THR:OG1	2.16	0.50
9:SH:3:GLU:N	9:SH:3:GLU:OE1	2.45	0.50
8:UI:271:THR:HB	8:UI:377:MET:HB3	1.92	0.50
8:VG:335:ILE:HA	8:VG:338:LYS:HZ3	1.76	0.50
9:WB:286:VAL:HG11	9:WB:325:GLU:HB2	1.92	0.50
8:WI:28:HIS:ND1	8:WI:48:SER:OG	2.45	0.50
8:WI:322:ASP:OD2	8:WI:373:ARG:NH1	2.45	0.50
56:XI:149:ILE:HD11	57:YH:74:LYS:HE3	1.94	0.50
57:YJ:164:VAL:O	57:YJ:168:THR:OG1	2.28	0.50
60:e:541:ARG:NH2	60:e:578:ASN:O	2.45	0.50
60:f:386:MET:HA	60:f:428:THR:HG21	1.93	0.50
60:g:107:MET:HE2	60:g:148:ARG:NH1	2.27	0.50
60:g:231:ASP:OD1	60:g:231:ASP:N	2.41	0.50
3:1:137:LYS:O	3:1:140:ASN:N	2.44	0.50
7:A1:5:VAL:HG13	9:PL:307:HIS:HB3	1.94	0.50
7:A1:213:THR:HG21	8:OA:164:LYS:HZ1	1.76	0.50
7:A5:50:ALA:HA	9:RF:332:ASN:HD22	1.76	0.50
9:AD:289:LEU:O	9:AD:293:MET:HG3	2.12	0.50
13:Ab:514:TYR:N	8:EI:39:ASP:OD2	2.45	0.50
15:Ap:122:ARG:NH1	32:Cm:248:GLN:HB3	2.26	0.50
15:Ap:160:LYS:NZ	9:BH:26:ASP:OD1	2.41	0.50
16:At:224:ALA:HB2	8:FK:340:THR:HG21	1.92	0.50
9:BD:322:SER:HB3	9:BD:325:GLU:HG2	1.93	0.50
8:BK:316:CYS:HA	8:BK:352:LYS:HB3	1.93	0.50
19:BQ:391:GLU:N	19:BQ:391:GLU:OE1	2.44	0.50
22:BW:86:HIS:O	9:JD:279:GLN:NE2	2.44	0.50
8:CA:79:ARG:HH22	48:M:107:GLY:C	2.20	0.50
9:CB:207:LEU:HB3	9:CB:225:LEU:HD22	1.93	0.50
8:CG:188:ILE:HA	8:CG:191:THR:HG22	1.92	0.50
9:CH:198:GLU:HA	9:CH:264:HIS:HB2	1.92	0.50
8:CI:248:LEU:HD21	9:CJ:222:TYR:HE2	1.77	0.50
9:CL:395:LEU:HA	9:CL:398:TYR:HD2	1.77	0.50
2:CV:79:LYS:O	2:CV:83:HIS:ND1	2.44	0.50
2:Cg:53:TYR:HA	2:Cg:57:HIS:HB2	1.94	0.50
33:Cx:158:ALA:HA	33:Cx:239:LEU:HD21	1.93	0.50
29:D1:429:THR:HG22	29:D2:130:LYS:HD2	1.93	0.50
29:D6:165:ARG:NH1	29:D6:314:ARG:HG2	2.24	0.50
8:DC:98:ASP:O	8:DC:105:ARG:NH1	2.42	0.50
8:DE:325:PRO:HG2	8:DE:326:LYS:NZ	2.27	0.50
9:DN:148:GLY:O	9:DN:152:ILE:HB	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EE:243:ARG:HG3	8:EE:244:PHE:HD1	1.77	0.50
9:EJ:290:THR:HG21	9:EJ:329:GLN:HB3	1.91	0.50
9:EL:257:MET:HE1	9:EL:314:ALA:HB3	1.94	0.50
44:ES:157:GLN:HE21	44:ES:161:ARG:HH21	1.59	0.50
8:FG:186:ASN:O	8:FG:190:THR:OG1	2.27	0.50
8:FG:264:ARG:HH22	8:FG:431:ASP:HB2	1.76	0.50
8:FI:26:LEU:HD23	8:FI:363:VAL:HG12	1.93	0.50
8:GI:430:LYS:HE2	8:GI:430:LYS:HA	1.94	0.50
9:GJ:100:ASN:OD1	9:GJ:100:ASN:N	2.44	0.50
9:HD:28:HIS:NE2	9:HD:241:ARG:HD2	2.27	0.50
9:HD:178:THR:HG22	9:HD:180:VAL:H	1.75	0.50
9:HJ:138:SER:OG	69:HJ:501:GDP:O1A	2.28	0.50
8:HM:111:GLY:O	8:HM:115:VAL:HB	2.11	0.50
9:ID:262:ARG:NH2	9:ID:417:ASP:OD1	2.45	0.50
8:IE:245:ASP:N	8:IE:245:ASP:OD2	2.45	0.50
9:IH:78:SER:OG	9:IH:79:GLY:N	2.44	0.50
9:IH:193:VAL:HG23	9:IH:265:PHE:HE1	1.76	0.50
9:JD:113:VAL:HG12	9:JD:147:MET:HE3	1.93	0.50
8:JG:394:LYS:HD2	51:N:50:HIS:NE2	2.27	0.50
9:JJ:282:ARG:HH21	9:JJ:288:GLU:HG3	1.74	0.50
9:KB:132:GLY:HA2	9:KB:162:ARG:HB3	1.94	0.50
9:KD:101:TRP:NE1	9:KD:145:SER:O	2.44	0.50
9:LL:215:LEU:HD21	9:LL:273:LEU:HD22	1.94	0.50
9:MB:188:SER:O	9:MB:192:LEU:HB2	2.11	0.50
9:MD:65:LEU:HB3	9:MD:73:MET:HE1	1.92	0.50
9:MF:287:PRO:HA	9:MF:290:THR:HG22	1.94	0.50
9:MH:155:ILE:HG13	9:MH:164:MET:HE1	1.93	0.50
9:ML:8:GLN:HG3	9:ML:65:LEU:HG	1.94	0.50
9:ML:174:LYS:HZ3	61:h:19:LEU:HA	1.76	0.50
51:N:46:GLN:HG3	51:N:55:PHE:CE1	2.46	0.50
8:NA:188:ILE:HG22	8:NA:421:ALA:HB1	1.92	0.50
9:OB:122:LYS:HZ1	9:PB:291:GLN:HG3	1.77	0.50
9:OB:346:PRO:HD2	8:OC:398:MET:HE3	1.93	0.50
8:PG:25:CYS:HA	8:PG:30:ILE:HB	1.94	0.50
9:PL:119:VAL:HA	9:PL:122:LYS:HB3	1.92	0.50
9:PL:234:SER:O	9:PL:241:ARG:NH2	2.45	0.50
9:PL:252:LYS:HE3	8:PM:101:ASN:HD21	1.76	0.50
9:QD:54:ALA:HB3	9:QD:58:LYS:HB2	1.93	0.50
9:QH:257:MET:O	9:QH:370:ASN:ND2	2.44	0.50
8:QM:320:ARG:NH1	8:QM:358:GLN:O	2.44	0.50
8:RA:348:PRO:HD3	9:RB:388:MET:HE1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RB:42:LEU:HA	9:RB:45:GLU:HG2	1.92	0.50
8:RC:238:ILE:HG23	8:RC:255:PHE:CE2	2.46	0.50
8:RG:172:TYR:HB2	8:RG:203:MET:SD	2.51	0.50
8:SG:116:ASP:N	8:SG:116:ASP:OD2	2.44	0.50
9:SH:67:ASP:OD1	9:SH:68:LEU:N	2.44	0.50
8:TI:107:HIS:CD2	8:TI:152:LEU:HB2	2.46	0.50
9:TJ:11:GLN:NE2	69:TJ:501:GDP:O2A	2.41	0.50
9:UB:39:ASP:OD1	9:UB:40:SER:N	2.45	0.50
9:UL:86:ARG:NH1	9:VL:281:TYR:O	2.44	0.50
9:VJ:272:PRO:HA	9:VJ:292:GLN:HE22	1.76	0.50
9:WD:12:CYS:HB3	9:WD:138:SER:HB2	1.94	0.50
8:WI:314:ALA:HB3	8:WI:380:ASN:HB3	1.93	0.50
56:XI:175:ASP:OD1	56:XI:175:ASP:N	2.36	0.50
56:XL:30:ARG:H	56:XL:57:THR:HG22	1.77	0.50
56:XM:82:ASN:ND2	56:XM:126:ASP:O	2.42	0.50
57:YI:86:GLU:HG2	57:YI:95:ALA:HB2	1.93	0.50
57:YI:188:PRO:O	57:YI:191:ARG:NH2	2.44	0.50
60:e:167:VAL:HG12	60:e:178:VAL:HG12	1.93	0.50
66:u:266:MET:SD	66:u:266:MET:N	2.65	0.50
5:A:17:GLU:OE1	5:A:21:ARG:NH2	2.45	0.50
8:AA:91:GLN:HB3	8:AA:121:ARG:NH2	2.27	0.50
9:AB:1:MET:N	9:AB:1:MET:SD	2.85	0.50
11:AU:381:LEU:HD21	45:G:581:TYR:CE1	2.47	0.50
13:Ab:451:VAL:HG23	13:Ab:466:PHE:HB3	1.93	0.50
13:Ad:167:ILE:O	32:Cp:367:ARG:NH1	2.36	0.50
15:Ap:152:THR:HG22	15:Ap:153:ASP:H	1.75	0.50
16:At:240:PHE:HA	9:EJ:125:GLU:OE2	2.12	0.50
18:B6:99:VAL:HG21	9:LN:406:MET:HE1	1.94	0.50
8:BC:260:VAL:HB	9:BD:397:TRP:HH2	1.76	0.50
8:BE:273:ALA:HB1	8:BE:291:ILE:HB	1.94	0.50
9:BL:354:CYS:SG	9:BL:355:ASP:N	2.84	0.50
19:BO:159:GLU:HG2	19:BO:163:ARG:HH21	1.76	0.50
14:Ba:88:HIS:HB3	33:Cw:73:ARG:HH12	1.75	0.50
27:Bs:248:PHE:HE1	8:HK:364:PRO:HA	1.76	0.50
28:C3:192:LEU:HB2	28:C3:226:ILE:HG21	1.93	0.50
9:CD:202:ILE:HG12	9:CD:300:MET:HB3	1.92	0.50
8:CE:115:VAL:HG22	8:CE:119:LEU:HD23	1.93	0.50
8:CE:255:PHE:O	8:CE:259:LEU:CB	2.60	0.50
9:CF:86:ARG:HG2	9:DF:281:TYR:HB3	1.93	0.50
9:CH:331:LEU:HD21	8:CI:177:VAL:HA	1.93	0.50
9:CL:296:ALA:HA	9:CL:299:MET:HE3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CM:150:ALA:O	8:CM:154:MET:HG3	2.11	0.50
2:Cb:133:ASN:O	2:Cb:134:HIS:ND1	2.45	0.50
29:Cz:305:ASP:OD1	29:Cz:305:ASP:N	2.44	0.50
29:D3:286:VAL:HG11	29:D4:396:GLN:HB3	1.94	0.50
29:D5:273:LEU:HB3	29:D7:398:ARG:HH21	1.76	0.50
9:DB:14:ASN:ND2	9:DB:73:MET:SD	2.85	0.50
9:DD:229:VAL:HA	9:DD:300:MET:HE1	1.94	0.50
8:DK:250:VAL:HG21	8:DK:318:LEU:HD21	1.92	0.50
8:DM:174:ALA:HB1	8:DM:207:GLU:OE2	2.11	0.50
29:DU:347:ASN:HA	29:DU:350:ILE:HD12	1.93	0.50
29:DW:173:LEU:HD23	29:DW:243:MET:HG3	1.92	0.50
36:Dd:185:ALA:HB2	9:WN:93:GLY:HA2	1.93	0.50
8:EI:68:VAL:HG21	8:EI:149:PHE:HE1	1.77	0.50
29:EP:133:LEU:HA	29:EP:136:GLN:HE21	1.77	0.50
44:ES:397:GLU:OE1	44:ET:77:GLN:NE2	2.34	0.50
44:EU:248:GLU:CD	44:EU:249:GLU:H	2.19	0.50
28:F4:167:MET:HE2	28:F4:315:ARG:HG3	1.94	0.50
9:FB:385:PHE:HZ	9:FB:408:PHE:HB3	1.77	0.50
8:FC:317:MET:HB2	8:FC:353:VAL:HA	1.92	0.50
9:FD:178:THR:HB	9:FD:181:GLU:HB3	1.93	0.50
8:FK:396:ASP:HB3	8:FK:422:ARG:HH22	1.76	0.50
9:FN:91:VAL:HG21	9:FN:116:VAL:HG12	1.94	0.50
8:GE:137:ILE:HD13	8:GE:154:MET:HE1	1.94	0.50
8:GE:277:SER:OG	8:GE:280:LYS:NZ	2.45	0.50
8:GG:223:THR:OG1	8:GG:224:TYR:N	2.43	0.50
8:GM:234:ILE:HD11	8:GM:272:TYR:HB2	1.92	0.50
9:HB:271:ALA:HB2	9:HB:293:MET:HE2	1.94	0.50
8:HM:2:ARG:NH2	8:HM:47:ASP:O	2.44	0.50
47:I:300:VAL:HG22	47:I:322:GLU:HB3	1.94	0.50
8:IK:245:ASP:OD1	8:IK:246:GLY:N	2.45	0.50
8:JK:141:PHE:HB2	8:JK:173:PRO:HD3	1.93	0.50
9:JN:343:GLU:OE2	9:JN:343:GLU:N	2.45	0.50
49:K1:84:GLU:OE1	49:K1:85:THR:N	2.44	0.50
9:KJ:372:THR:HG21	9:KJ:426:GLN:HB3	1.93	0.50
50:L1:119:ARG:NH1	8:VC:2:ARG:HH12	2.10	0.50
8:LM:98:ASP:OD1	8:LM:98:ASP:N	2.36	0.50
8:MC:70:LEU:HD12	8:MC:145:THR:HB	1.93	0.50
8:MG:385:ALA:HA	8:MG:388:TRP:HD1	1.77	0.50
8:MK:47:ASP:OD1	8:MK:47:ASP:N	2.44	0.50
8:NC:194:THR:HG22	8:NC:198:SER:HB2	1.93	0.50
8:OC:327:ASP:OD1	8:OC:327:ASP:N	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OH:237:THR:O	9:OH:241:ARG:NH1	2.45	0.50
8:OI:298:PRO:HA	8:OI:301:GLN:HG2	1.94	0.50
8:PC:7:ILE:O	8:PC:138:PHE:N	2.45	0.50
9:PH:135:LEU:HD21	9:PH:137:HIS:HB3	1.93	0.50
8:PK:22:GLU:OE1	8:PK:83:TYR:OH	2.25	0.50
8:QC:88:HIS:HD1	8:QC:90:GLU:HB2	1.77	0.50
8:QE:358:GLN:NE2	8:QE:359:PRO:O	2.44	0.50
9:QF:52:ASN:ND2	9:QF:60:VAL:O	2.45	0.50
8:QK:173:PRO:O	8:QK:173:PRO:HD2	2.11	0.50
9:SD:91:VAL:HG21	9:SD:116:VAL:HG22	1.94	0.50
9:SJ:161:ASP:OD1	9:SJ:162:ARG:NH1	2.44	0.50
9:SL:324:LYS:HE2	8:SM:227:LEU:HD11	1.94	0.50
9:TD:286:VAL:O	9:TD:290:THR:OG1	2.22	0.50
8:TE:259:LEU:HD21	8:TE:378:LEU:HB3	1.92	0.50
8:TG:135:PHE:HB3	8:TG:137:ILE:HD11	1.94	0.50
9:TH:309:ARG:NH1	9:TH:339:SER:O	2.45	0.50
9:TJ:152:ILE:HG21	9:TJ:196:THR:HG22	1.94	0.50
8:TK:11:GLN:HA	8:TK:14:VAL:HG22	1.92	0.50
8:TK:258:ASN:ND2	9:TL:179:VAL:HG22	2.27	0.50
8:UC:231:ILE:HA	8:UC:234:ILE:HG22	1.94	0.50
8:UG:349:THR:OG1	8:UG:350:GLY:N	2.45	0.50
9:UH:113:VAL:HA	9:UH:116:VAL:HG12	1.94	0.50
9:VF:273:LEU:O	9:VF:292:GLN:NE2	2.43	0.50
8:VG:16:ILE:HG12	8:VG:231:ILE:HG21	1.93	0.50
8:VM:116:ASP:OD2	8:VM:156:ARG:NH2	2.45	0.50
9:VN:236:VAL:HG13	9:VN:237:THR:HG23	1.94	0.50
9:WB:267:MET:SD	9:WB:374:ILE:HG13	2.51	0.50
9:WD:2:ARG:NH2	8:WE:73:THR:OG1	2.45	0.50
9:WF:156:ARG:HB2	9:WF:164:MET:HE1	1.94	0.50
9:WJ:5:VAL:HA	9:WJ:62:ARG:HG2	1.94	0.50
8:WK:129:CYS:O	57:YH:87:HIS:NE2	2.41	0.50
56:XJ:177:LEU:HD23	56:XJ:182:LYS:HG3	1.94	0.50
57:YL:191:ARG:HG2	57:YL:247:MET:HE3	1.94	0.50
57:YL:238:GLU:OE2	57:YL:238:GLU:N	2.39	0.50
61:h:98:MET:HE1	61:h:101:LEU:HD22	1.93	0.50
46:o:351:GLU:HG2	46:o:354:LYS:HZ2	1.76	0.50
2:0g:10:ARG:HH21	2:0g:14:GLN:HE22	1.59	0.50
7:A9:87:TYR:O	9:TB:336:LYS:NZ	2.45	0.50
8:AC:9:VAL:HG21	8:AC:150:ALA:HB2	1.94	0.50
9:AJ:39:ASP:OD1	9:AJ:39:ASP:N	2.44	0.50
8:AM:324:VAL:HG23	8:AM:327:ASP:OD2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AP:46:ARG:HG2	8:KG:264:ARG:HD2	1.94	0.50
11:AU:392:GLU:OE1	34:D:66:TYR:OH	2.25	0.50
13:Aa:61:ASP:N	13:Aa:61:ASP:OD1	2.45	0.50
13:Ab:100:GLU:HB2	13:Ab:119:ARG:HB2	1.94	0.50
13:Ad:557:CYS:SG	13:Ad:558:MET:N	2.84	0.50
7:Aw:55:GLY:H	9:OD:306:ARG:NH2	2.05	0.50
5:B:159:PHE:CE2	9:VH:87:PRO:HB3	2.46	0.50
9:BB:113:VAL:HA	9:BB:116:VAL:HG12	1.94	0.50
9:BD:177:ASP:OD1	69:BD:501:GDP:O3'	2.23	0.50
9:BF:32:PRO:HD3	9:BF:81:PHE:CE1	2.47	0.50
9:BL:184:ASN:OD1	9:BL:398:TYR:OH	2.29	0.50
19:BO:158:ARG:HD2	19:BO:224:LEU:HD22	1.94	0.50
19:BP:85:GLU:HG2	19:BP:86:LYS:HG2	1.93	0.50
21:Bj:18:ARG:HH12	9:KJ:75:SER:HA	1.75	0.50
28:C5:425:TYR:HD2	38:Df:118:LEU:HD21	1.77	0.50
9:CD:390:ARG:HG3	9:CD:391:ARG:HG2	1.94	0.50
9:CF:250:LEU:HA	9:CF:253:LEU:HD12	1.93	0.50
8:CK:209:ILE:HG22	8:CK:227:LEU:HD22	1.93	0.50
2:Ce:44:ILE:HD11	2:Ce:135:TYR:HD2	1.77	0.50
2:Cj:127:SER:OG	8:RG:84:ARG:NH2	2.45	0.50
2:Ck:54:MET:HE1	2:Ck:68:LEU:HA	1.93	0.50
2:Ck:59:SER:O	2:Ck:64:ARG:NH2	2.45	0.50
32:Cm:97:ARG:HD3	43:E2:77:TYR:HE2	1.77	0.50
33:Ct:85:LEU:HD11	33:Ct:165:LEU:HD22	1.94	0.50
8:DA:324:VAL:HG13	8:DA:327:ASP:H	1.77	0.50
8:DE:221:ARG:HH12	48:J:116:ARG:HA	1.77	0.50
8:DG:262:TYR:HE2	9:DH:393:ALA:HA	1.77	0.50
8:DI:27:GLU:OE2	8:DI:320:ARG:NH2	2.44	0.50
29:DW:161:TYR:HB3	29:DW:165:ARG:HH12	1.76	0.50
29:EA:393:LYS:HG3	29:EP:280:ILE:HG22	1.93	0.50
8:EC:399:TYR:OH	8:EC:415:GLU:OE1	2.30	0.50
9:ED:113:VAL:HG22	9:ED:117:LEU:HD23	1.92	0.50
8:EE:46:ASP:OD2	8:EE:47:ASP:N	2.45	0.50
9:EJ:12:CYS:SG	9:EJ:138:SER:OG	2.55	0.50
29:EP:367:THR:O	29:EP:371:ILE:HG13	2.12	0.50
8:FG:7:ILE:HD12	8:FG:137:ILE:HG12	1.94	0.50
9:FN:19:LYS:HE2	9:FN:227:HIS:HB2	1.93	0.50
9:FN:54:ALA:HB3	9:FN:58:LYS:HB3	1.94	0.50
8:GC:218:ASP:OD1	8:GC:280:LYS:NZ	2.39	0.50
9:GF:87:PRO:HG2	9:HF:278:SER:HB2	1.93	0.50
9:GJ:164:MET:SD	9:GJ:164:MET:N	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GK:303:VAL:HG12	8:GK:305:CYS:H	1.77	0.50
9:GN:232:THR:HG21	9:GN:268:PRO:HB2	1.93	0.50
8:HO:180:ALA:HB3	8:HO:183:GLU:HG2	1.94	0.50
9:IB:207:LEU:HD23	9:IB:225:LEU:HB3	1.94	0.50
8:IG:239:THR:O	8:IG:243:ARG:NH1	2.45	0.50
9:IL:167:PHE:CZ	9:IL:233:MET:HG3	2.47	0.50
8:JI:160:ASP:OD2	8:JI:160:ASP:N	2.36	0.50
8:JM:138:PHE:HZ	8:JM:235:VAL:HG21	1.76	0.50
9:KD:116:VAL:HG11	9:KD:151:LEU:HD11	1.94	0.50
8:KM:326:LYS:HD3	9:KN:220:PRO:HD2	1.92	0.50
9:LD:245:GLN:O	8:LE:11:GLN:NE2	2.44	0.50
48:M:103:PRO:HB3	48:M:130:ALA:HB3	1.94	0.50
9:MF:389:PHE:O	9:MF:392:LYS:HD3	2.12	0.50
9:ND:2:ARG:HH21	9:ND:240:LEU:HA	1.77	0.50
8:OG:245:ASP:OD1	8:OG:245:ASP:N	2.42	0.50
9:OH:150:LEU:O	9:OH:154:LYS:HG2	2.12	0.50
8:OI:46:ASP:OD1	8:OI:46:ASP:N	2.45	0.50
8:PC:136:LEU:HD12	8:PC:169:PHE:HE1	1.77	0.50
9:PD:290:THR:HG21	9:PD:329:GLN:HB3	1.92	0.50
8:PK:273:ALA:HB2	8:PK:295:CYS:SG	2.52	0.50
9:QB:361:LEU:HD11	9:QB:364:SER:HB2	1.94	0.50
9:QF:178:THR:HB	9:QF:181:GLU:HG3	1.92	0.50
9:QJ:314:ALA:HB3	9:QJ:368:ILE:HB	1.93	0.50
9:RB:113:VAL:HA	9:RB:116:VAL:HG12	1.93	0.50
9:RB:294:PHE:HE1	9:RB:313:VAL:HG11	1.77	0.50
8:RC:115:VAL:HG22	8:RC:119:LEU:HD12	1.93	0.50
9:RH:165:ASN:HA	9:RH:198:GLU:HB2	1.92	0.50
8:RM:168:GLU:HB2	8:RM:201:ALA:HA	1.94	0.50
8:RM:206:ASN:OD1	67:RM:501:GTP:N2	2.43	0.50
8:SE:392:ASP:HA	8:SE:422:ARG:HH22	1.74	0.50
9:SL:33:THR:HG23	9:SL:35:THR:HG23	1.93	0.50
54:T:119:ASN:HB2	54:T:149:ILE:HG13	1.94	0.50
9:TH:3:GLU:HG3	9:TH:127:CYS:HB3	1.94	0.50
9:TH:48:ASN:O	9:TH:62:ARG:NH2	2.44	0.50
8:TK:311:LYS:HG2	8:TK:342:GLN:HB3	1.94	0.50
9:UJ:362:LYS:HB2	59:d:443:GLU:OE1	2.12	0.50
8:VG:335:ILE:HA	8:VG:338:LYS:NZ	2.27	0.50
9:VL:380:ARG:O	9:VL:384:GLN:HG2	2.12	0.50
9:WH:52:ASN:OD1	9:WH:62:ARG:NH2	2.45	0.50
8:WI:215:ARG:NH1	8:WI:216:ASN:OD1	2.45	0.50
9:WJ:1:MET:HG3	9:WJ:2:ARG:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WJ:173:PRO:HD2	9:WJ:174:LYS:H	1.76	0.50
9:WL:313:VAL:HG13	9:WL:367:PHE:HE1	1.76	0.50
59:a:137:VAL:O	59:a:141:THR:HG23	2.12	0.50
59:c:354:ALA:HB1	59:c:358:ARG:HH12	1.77	0.50
60:g:136:ASP:OD1	60:g:136:ASP:N	2.43	0.50
60:g:488:CYS:HB2	60:g:502:ILE:HB	1.94	0.50
63:k:28:LEU:HD22	63:k:119:TYR:HD1	1.75	0.50
46:o:545:ARG:O	46:o:545:ARG:NH1	2.44	0.50
58:q:68:GLN:OE1	66:w:383:ASN:ND2	2.45	0.50
66:v:315:ARG:O	66:v:319:TRP:NE1	2.45	0.50
2:0c:126:LEU:HD11	2:0c:139:VAL:HG11	1.94	0.50
2:0g:157:GLU:OE2	2:0g:157:GLU:N	2.45	0.50
2:0k:14:GLN:O	2:0k:18:ILE:HG12	2.12	0.50
7:A7:182:PRO:HG2	8:SC:341:ILE:HD11	1.94	0.50
7:A7:206:VAL:HG11	9:RB:115:SER:HA	1.92	0.50
9:AD:336:LYS:NZ	57:YK:47:MET:HA	2.27	0.50
9:AF:320:ARG:NH1	9:AF:355:ASP:HB3	2.26	0.50
8:AI:109:THR:HG21	8:AI:411:GLU:HB3	1.93	0.50
8:AM:306:ASP:OD2	8:AM:309:HIS:ND1	2.44	0.50
13:Ad:270:LEU:HD11	13:Ad:332:VAL:HA	1.94	0.50
18:B6:199:VAL:HG23	46:o:178:LEU:HD21	1.94	0.50
9:BD:4:ILE:HG21	9:BD:134:GLN:HG2	1.92	0.50
8:BG:2:ARG:HA	8:BG:133:GLN:OE1	2.11	0.50
8:BG:251:ASP:OD1	8:BG:252:LEU:N	2.45	0.50
9:BH:317:PHE:CE1	9:BH:330:MET:HE1	2.47	0.50
8:BI:352:LYS:NZ	8:BI:353:VAL:O	2.45	0.50
9:BJ:395:LEU:O	9:BJ:399:THR:OG1	2.29	0.50
9:BL:293:MET:HG3	9:BL:294:PHE:HD2	1.76	0.50
20:BT:265:THR:HG23	20:BT:267:PHE:HB3	1.92	0.50
21:Bj:108:ARG:NH2	8:KG:364:PRO:O	2.44	0.50
18:By:123:LYS:HD2	18:By:124:PRO:HD2	1.94	0.50
28:C3:289:ARG:NH1	28:C5:425:TYR:OH	2.36	0.50
28:C4:194:VAL:HG22	28:C4:485:ARG:HH21	1.77	0.50
9:CB:248:ALA:HA	9:CB:252:LYS:HE2	1.93	0.50
8:CE:88:HIS:HD2	8:DE:283:HIS:HB3	1.77	0.50
2:CT:104:LEU:HB3	2:CT:145:ILE:HD11	1.93	0.50
2:Cf:54:MET:HE3	2:Cf:71:LEU:HD12	1.93	0.50
31:Cl:323:TYR:OH	31:Cl:353:ARG:NH1	2.45	0.50
33:Ct:90:ASP:OD2	43:E3:110:THR:OG1	2.29	0.50
29:D2:172:SER:HB3	29:D2:321:ARG:NH2	2.26	0.50
8:DC:9:VAL:HG23	8:DC:146:GLY:HA2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DC:315:CYS:HG	8:DC:379:SER:HG	1.60	0.50
8:DE:73:THR:O	8:DE:73:THR:OG1	2.30	0.50
8:DE:76:ASP:O	8:DE:80:THR:OG1	2.26	0.50
9:DF:6:HIS:NE2	9:DF:8:GLN:OE1	2.45	0.50
8:DM:241:SER:OG	8:DM:250:VAL:O	2.29	0.50
29:DT:197:CYS:SG	29:DT:475:MET:HE1	2.52	0.50
29:DW:131:ASP:O	29:DW:135:ARG:HG3	2.11	0.50
39:Dj:110:MET:HE1	39:Dj:123:VAL:HG21	1.94	0.50
41:Dn:212:GLN:HG2	9:OF:391:ARG:HD3	1.93	0.50
9:ED:328:GLU:OE2	9:ED:329:GLN:NE2	2.37	0.50
8:EE:107:HIS:HB3	8:EE:108:TYR:CD1	2.46	0.50
8:EE:399:TYR:O	8:EE:402:ARG:NH1	2.45	0.50
9:EJ:267:MET:HE2	9:EJ:301:ALA:HB3	1.94	0.50
28:F2:126:ARG:NH1	28:F2:129:GLN:OE1	2.45	0.50
9:FH:324:LYS:HB3	8:FI:222:PRO:HD2	1.94	0.50
8:FI:175:PRO:O	8:FI:390:ARG:NH1	2.44	0.50
8:FM:367:ASP:N	8:FM:367:ASP:OD1	2.45	0.50
9:GH:193:VAL:HG23	9:GH:194:GLU:HG3	1.94	0.50
9:GJ:274:THR:HG21	9:GJ:282:ARG:HD2	1.93	0.50
9:GL:342:VAL:HB	9:GL:344:TRP:CD1	2.47	0.50
8:HC:65:ALA:H	8:HC:91:GLN:HE22	1.59	0.50
8:HI:3:GLU:HG3	8:HI:129:CYS:HB2	1.93	0.50
8:HM:313:MET:HG2	8:HM:344:VAL:HG21	1.94	0.50
9:IB:134:GLN:OE1	9:IB:165:ASN:HB3	2.12	0.50
9:IJ:268:PRO:HD2	9:IJ:300:MET:HB2	1.93	0.50
9:KF:11:GLN:HA	9:KF:72:THR:HG21	1.94	0.50
9:KL:68:LEU:HD12	9:KL:97:ALA:HB2	1.93	0.50
9:KN:215:LEU:HD11	9:KN:273:LEU:HD22	1.94	0.50
9:KN:247:ASN:O	9:KN:252:LYS:NZ	2.38	0.50
9:LH:323:MET:HE1	8:LI:223:THR:HA	1.93	0.50
8:LK:71:GLU:HG2	8:LK:73:THR:H	1.76	0.50
9:MD:117:LEU:HD11	9:MD:154:LYS:HD3	1.94	0.50
8:MG:247:ALA:O	9:MH:11:GLN:NE2	2.44	0.50
9:MJ:287:PRO:HA	9:MJ:290:THR:HG22	1.94	0.50
9:N0:130:LEU:HB3	9:N0:162:ARG:HH12	1.76	0.50
9:NF:1:MET:HE2	8:NG:72:PRO:HG3	1.93	0.50
8:NK:207:GLU:OE2	8:NK:304:LYS:NZ	2.38	0.50
8:OE:188:ILE:HD11	8:OE:391:LEU:HB3	1.94	0.50
8:OG:90:GLU:N	8:OG:90:GLU:OE1	2.45	0.50
9:OL:334:GLN:NE2	9:OL:349:VAL:HG12	2.26	0.50
9:PD:117:LEU:HD11	9:PD:121:ARG:HH21	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PH:4:ILE:H	9:PH:62:ARG:HH22	1.60	0.50
8:QE:187:SER:O	8:QE:191:THR:OG1	2.24	0.50
9:QF:240:LEU:HD13	9:QF:249:ASP:HB2	1.94	0.50
9:QH:118:ASP:HB2	9:QH:122:LYS:HZ1	1.77	0.50
9:QH:314:ALA:HB3	9:QH:368:ILE:H	1.77	0.50
9:QJ:262:ARG:HH21	9:QJ:418:LEU:HG	1.76	0.50
9:QL:139:LEU:HA	9:QL:145:SER:HB2	1.93	0.50
9:RD:271:ALA:HB2	9:RD:293:MET:HE2	1.94	0.50
8:RE:22:GLU:OE2	8:RE:363:VAL:HG11	2.11	0.50
9:RJ:380:ARG:HH12	9:RJ:384:GLN:HE21	1.60	0.50
9:SD:161:ASP:OD2	9:SD:162:ARG:NH2	2.45	0.50
8:TC:154:MET:HE3	8:TC:168:GLU:HG2	1.93	0.50
9:TH:255:VAL:HG13	9:TH:256:ASN:OD1	2.11	0.50
9:TJ:39:ASP:OD1	9:TJ:39:ASP:N	2.40	0.50
8:TK:320:ARG:HH22	8:TK:360:PRO:HA	1.77	0.50
9:TL:237:THR:HG22	9:TL:250:LEU:HD11	1.92	0.50
8:UE:15:GLN:O	8:UE:228:ASN:ND2	2.44	0.50
8:UI:7:ILE:HB	8:UI:137:ILE:HD13	1.93	0.50
9:VB:30:ILE:HD13	9:VB:51:TYR:HE2	1.76	0.50
8:VC:223:THR:HG23	8:VC:225:THR:H	1.77	0.50
9:VD:83:GLN:O	9:WD:281:TYR:OH	2.29	0.50
9:VJ:245:GLN:O	8:VK:11:GLN:NE2	2.45	0.50
8:WK:12:ALA:O	8:WK:16:ILE:HG13	2.12	0.50
61:h:55:MET:HG2	62:j:40:ILE:HD13	1.92	0.50
62:j:97:ASP:HB3	62:j:100:LYS:HG2	1.94	0.50
66:u:391:PRO:HA	66:u:394:LEU:HB2	1.94	0.50
4:y:1340:PRO:HA	4:y:1374:LYS:HG2	1.93	0.50
2:0A:58:CYS:SG	2:0A:64:ARG:NH2	2.65	0.49
2:0E:80:LEU:HG	2:0E:84:PHE:CE1	2.47	0.49
7:A6:252:ASP:OD1	9:RL:77:ARG:NH2	2.44	0.49
7:A7:46:LEU:O	8:SK:214:ARG:NH2	2.45	0.49
8:AE:247:ALA:HB3	8:AE:355:ILE:HB	1.93	0.49
9:AH:324:LYS:HZ1	8:AI:221:ARG:H	1.60	0.49
8:AI:27:GLU:OE1	8:AI:243:ARG:NH1	2.41	0.49
12:AV:6:ARG:HH22	8:IG:42:ILE:HA	1.77	0.49
13:Ad:240:PHE:HE2	13:Ad:247:GLU:HG3	1.76	0.49
7:Ay:76:ILE:HD13	8:FI:113:GLU:HB2	1.94	0.49
8:BA:112:LYS:HZ1	8:BA:156:ARG:HH12	1.60	0.49
9:BB:87:PRO:HA	9:BB:90:PHE:HD2	1.76	0.49
8:BC:215:ARG:NH2	8:BC:299:ALA:O	2.45	0.49
8:BE:91:GLN:HG3	8:BE:121:ARG:HH12	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BL:73:MET:HE1	9:BL:92:PHE:HB3	1.94	0.49
18:Bz:106:LYS:HD3	18:Bz:107:ASN:N	2.26	0.49
18:Bz:196:ARG:NH1	18:Bz:251:LYS:O	2.45	0.49
28:C2:168:ILE:HD11	28:C2:251:GLN:HE22	1.77	0.49
9:CB:202:ILE:HD13	9:CB:229:VAL:HG21	1.92	0.49
9:CD:226:ASN:OD1	69:CD:501:GDP:N1	2.37	0.49
9:CF:253:LEU:O	9:CF:257:MET:HG2	2.12	0.49
2:Cj:13:GLU:O	2:Cj:17:LYS:HG3	2.11	0.49
29:D1:405:ARG:HH21	29:D1:411:CYS:H	1.58	0.49
8:DK:11:GLN:NE2	67:DK:501:GTP:O2G	2.45	0.49
9:DN:11:GLN:HB3	9:DN:72:THR:HG21	1.94	0.49
29:DV:196:GLU:O	29:DV:200:GLN:N	2.45	0.49
38:Df:54:TYR:H	47:Y:327:LYS:HD3	1.78	0.49
38:Df:77:THR:HG22	38:Df:79:LYS:H	1.77	0.49
43:E2:102:GLU:OE2	43:E2:114:ARG:NH1	2.45	0.49
9:EF:1:MET:SD	9:EF:1:MET:N	2.82	0.49
8:EG:332:ILE:HD12	8:EG:351:PHE:HE2	1.77	0.49
44:EV:68:PHE:HA	44:EV:71:ARG:NH1	2.27	0.49
9:FB:10:GLY:O	9:FB:14:ASN:ND2	2.41	0.49
9:FB:140:GLY:O	9:FB:184:ASN:ND2	2.39	0.49
9:FL:172:SER:HB3	9:FL:175:VAL:H	1.77	0.49
9:FL:372:THR:HA	9:FL:422:TYR:CE2	2.47	0.49
9:FN:284:LEU:N	9:FN:288:GLU:OE2	2.42	0.49
45:G:261:THR:OG1	45:G:262:SER:N	2.45	0.49
9:GH:393:ALA:O	9:GH:395:LEU:N	2.45	0.49
9:HF:94:GLN:NE2	64:ke:16:LYS:O	2.41	0.49
9:HL:274:THR:HG22	9:HL:282:ARG:HH11	1.76	0.49
8:HO:223:THR:OG1	8:HO:224:TYR:N	2.42	0.49
8:IG:1:MET:N	8:IG:3:GLU:OE1	2.38	0.49
8:IO:1:MET:HG2	8:IO:2:ARG:HE	1.77	0.49
8:JI:158:SER:HB2	8:JI:166:LYS:NZ	2.26	0.49
9:JJ:118:ASP:OD1	9:JJ:118:ASP:N	2.43	0.49
9:JL:213:ARG:NH1	51:O:107:GLN:O	2.41	0.49
9:KD:290:THR:HA	9:KD:293:MET:HE3	1.93	0.49
8:KK:395:LEU:HD22	8:KK:422:ARG:HD3	1.94	0.49
8:LE:11:GLN:O	8:LE:15:GLN:HG3	2.11	0.49
9:LH:20:PHE:HA	9:LH:230:SER:HB2	1.94	0.49
8:MI:26:LEU:HD11	8:MI:364:PRO:HD3	1.94	0.49
8:MK:3:GLU:HA	8:MK:51:THR:HA	1.93	0.49
9:N0:216:LYS:HG2	9:N0:275:SER:HB2	1.94	0.49
8:NE:93:ILE:HD12	8:NE:118:VAL:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O0:253:LEU:O	9:O0:257:MET:HB2	2.12	0.49
9:OD:143:THR:OG1	69:OD:501:GDP:O1B	2.28	0.49
8:OE:76:ASP:O	8:OE:80:THR:OG1	2.24	0.49
9:OF:19:LYS:HD3	9:OF:226:ASN:HB2	1.94	0.49
8:OI:51:THR:HG21	8:OI:243:ARG:HG2	1.94	0.49
8:OI:130:THR:OG1	8:OI:131:GLY:N	2.44	0.49
8:PA:438:ASP:HA	9:PB:391:ARG:HH22	1.76	0.49
9:PB:346:PRO:HG3	8:PC:394:LYS:HB2	1.94	0.49
9:PD:133:PHE:HD2	9:PD:164:MET:HE1	1.77	0.49
8:PE:64:ARG:HA	8:PE:125:LEU:HD11	1.93	0.49
8:PE:205:ASP:OD1	8:PE:205:ASP:N	2.42	0.49
8:PI:119:LEU:HB3	8:PI:123:ARG:NH1	2.26	0.49
8:QC:103:TYR:CE2	8:QC:189:LEU:HB3	2.47	0.49
8:QE:7:ILE:HA	8:QE:66:VAL:HB	1.94	0.49
9:QJ:68:LEU:HD12	9:QJ:143:THR:HB	1.94	0.49
8:QK:60:LYS:NZ	8:QK:85:GLN:O	2.44	0.49
8:QK:324:VAL:HG22	8:QK:326:LYS:H	1.77	0.49
9:RB:166:THR:OG1	9:RB:198:GLU:O	2.30	0.49
8:RE:98:ASP:OD1	8:RE:98:ASP:N	2.42	0.49
9:RF:178:THR:HB	9:RF:181:GLU:HB3	1.93	0.49
8:RI:324:VAL:HG12	8:RI:326:LYS:H	1.77	0.49
9:RL:193:VAL:HG21	9:RL:418:LEU:HD11	1.94	0.49
9:SB:209:ASP:OD1	9:SB:213:ARG:NH1	2.42	0.49
9:SB:324:LYS:NZ	8:SC:221:ARG:H	2.10	0.49
8:SC:147:SER:O	8:SC:151:SER:OG	2.27	0.49
9:SD:310:TYR:N	9:SD:340:TYR:O	2.43	0.49
8:SG:284:GLU:N	8:SG:284:GLU:OE2	2.44	0.49
8:TC:298:PRO:HA	8:TC:301:GLN:NE2	2.26	0.49
8:TE:313:MET:HG3	8:TE:344:VAL:HG21	1.93	0.49
9:TF:330:MET:HB3	9:TF:349:VAL:HG11	1.94	0.49
8:TK:337:THR:OG1	8:TK:338:LYS:NZ	2.45	0.49
9:TL:139:LEU:HG	9:TL:168:SER:HB3	1.94	0.49
8:TM:298:PRO:HG2	8:TM:308:ARG:CZ	2.42	0.49
9:VD:1:MET:HE1	8:VE:72:PRO:HG2	1.93	0.49
9:VD:6:HIS:CD2	9:VD:21:TRP:HE1	2.29	0.49
8:VE:286:LEU:O	8:VE:373:ARG:NH1	2.45	0.49
8:VG:97:GLU:HG3	8:VG:110:ILE:CD1	2.42	0.49
9:WD:390:ARG:HH12	9:WD:391:ARG:HG3	1.77	0.49
8:WE:140:SER:OG	67:WE:501:GTP:O2A	2.27	0.49
8:WG:304:LYS:O	8:WG:390:ARG:NH2	2.45	0.49
9:WL:27:GLU:OE2	9:WL:241:ARG:NH1	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WN:7:LEU:HB3	9:WN:135:LEU:HD13	1.93	0.49
60:f:179:THR:HG23	60:f:214:ILE:HD13	1.94	0.49
62:i:50:LEU:HD11	62:i:96:PRO:HG3	1.94	0.49
66:w:327:ILE:HB	66:w:328:LYS:NZ	2.27	0.49
3:2:72:ILE:HA	3:2:152:LEU:H	1.78	0.49
5:A:21:ARG:HG2	5:A:25:LEU:HD23	1.94	0.49
7:A2:27:GLY:O	8:PA:123:ARG:NH1	2.45	0.49
8:AA:50:ASN:O	8:AA:64:ARG:NH1	2.45	0.49
8:AG:253:THR:HG22	9:AH:98:GLY:HA3	1.94	0.49
9:AL:336:LYS:NZ	57:YG:47:MET:HE2	2.27	0.49
12:AW:99:LYS:HB3	12:AW:152:PHE:CZ	2.47	0.49
13:Aa:625:ILE:O	13:Aa:629:VAL:HG23	2.12	0.49
16:At:223:CYS:O	8:FK:340:THR:OG1	2.27	0.49
18:B6:34:PHE:O	18:B6:38:VAL:HG12	2.12	0.49
18:B6:170:LYS:NZ	18:B6:173:GLU:HG2	2.27	0.49
9:BB:215:LEU:HB3	9:BB:217:LEU:HD13	1.94	0.49
8:BM:211:ASP:HB3	8:BM:215:ARG:HH21	1.78	0.49
20:BT:140:PRO:HB2	32:Cm:338:ILE:HD13	1.94	0.49
20:BT:185:LYS:NZ	20:BT:186:GLU:O	2.45	0.49
18:Bz:11:GLU:H	60:e:390:LYS:NZ	2.10	0.49
28:C2:178:LYS:HD3	28:C2:244:LEU:HD12	1.94	0.49
9:CB:357:PRO:HG2	38:Dh:16:ILE:HD12	1.94	0.49
8:CE:273:ALA:HB3	8:CE:375:VAL:HB	1.94	0.49
9:CF:299:MET:HE1	9:CF:305:PRO:HG3	1.95	0.49
9:CH:152:ILE:HA	9:CH:155:ILE:HG22	1.94	0.49
2:CX:3:ASN:HA	2:CX:6:LYS:HZ3	1.76	0.49
2:Ca:55:GLU:O	2:Ca:56:HIS:HB2	2.09	0.49
32:Co:31:ARG:O	32:Co:35:GLU:HG3	2.11	0.49
32:Cp:310:ALA:HB2	32:Cp:344:ILE:HG21	1.94	0.49
33:Cu:131:ASP:OD1	33:Cu:131:ASP:N	2.40	0.49
29:D9:263:ALA:HA	29:D9:266:ILE:HG22	1.94	0.49
8:DA:7:ILE:HB	8:DA:137:ILE:HG13	1.94	0.49
9:DD:272:PRO:HD3	9:DD:289:LEU:HD22	1.94	0.49
9:DN:4:ILE:HD11	9:DN:50:TYR:HE1	1.77	0.49
36:Dc:152:ASN:ND2	9:WJ:22:GLU:OE2	2.45	0.49
9:EB:8:GLN:HE21	9:EB:65:LEU:HG	1.78	0.49
8:EI:249:ASN:ND2	9:EJ:69:GLU:OE2	2.45	0.49
9:EJ:344:TRP:CE3	8:EK:401:LYS:HD2	2.45	0.49
8:EK:11:GLN:HG3	8:EK:74:VAL:HG21	1.94	0.49
9:FB:60:VAL:HG11	9:FB:86:ARG:HH21	1.77	0.49
9:FD:41:ASP:HA	9:FD:44:LEU:HD12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FE:382:THR:HA	8:FE:432:TYR:CE1	2.47	0.49
8:FI:104:ALA:HB2	8:FI:413:MET:HE3	1.94	0.49
9:FJ:132:GLY:HA3	9:FJ:163:ILE:HG13	1.93	0.49
8:GC:276:ILE:HG12	8:GC:284:GLU:OE1	2.12	0.49
9:GD:130:LEU:O	9:GD:162:ARG:NH1	2.44	0.49
8:GI:133:GLN:O	8:GI:165:SER:OG	2.27	0.49
8:HC:101:ASN:N	67:HC:501:GTP:O2G	2.41	0.49
8:HC:352:LYS:HG2	9:HD:178:THR:HA	1.94	0.49
9:HJ:30:ILE:HD11	9:HJ:47:ILE:HD11	1.94	0.49
8:IC:244:PHE:HB2	8:IC:356:ASN:HD21	1.77	0.49
9:JF:194:GLU:N	9:JF:194:GLU:OE1	2.45	0.49
9:JF:345:ILE:HD11	8:JG:181:VAL:HG13	1.94	0.49
9:JH:111:GLU:OE1	9:JH:111:GLU:N	2.37	0.49
9:JH:205:GLU:OE2	53:Q:48:LYS:NZ	2.36	0.49
9:JJ:124:ALA:HA	9:JJ:127:CYS:HB2	1.94	0.49
8:LK:395:LEU:HD23	8:LK:422:ARG:HD3	1.95	0.49
8:LM:1:MET:HE3	8:LM:131:GLY:HA3	1.94	0.49
9:MD:139:LEU:HD12	9:MD:170:VAL:HG12	1.94	0.49
9:MF:65:LEU:HB3	9:MF:73:MET:HE1	1.93	0.49
9:NB:58:LYS:HE2	9:NB:60:VAL:HG12	1.94	0.49
9:NB:406:MET:O	9:NB:409:THR:OG1	2.25	0.49
9:NL:309:ARG:NH1	58:p:62:SER:OG	2.45	0.49
9:OB:293:MET:HE3	9:OB:365:ALA:HB1	1.93	0.49
8:OI:300:ASN:OD1	8:OI:300:ASN:N	2.44	0.49
9:OL:20:PHE:CG	9:OL:233:MET:HE2	2.47	0.49
8:PA:200:CYS:HA	8:PA:266:HIS:HB2	1.94	0.49
8:PA:206:ASN:ND2	67:PA:501:GTP:O2'	2.46	0.49
8:PA:253:THR:O	8:PA:257:THR:OG1	2.23	0.49
9:PD:142:GLY:N	69:PD:501:GDP:O1B	2.45	0.49
8:PG:419:SER:O	8:PG:419:SER:OG	2.29	0.49
8:PI:415:GLU:N	8:PI:415:GLU:OE2	2.45	0.49
9:PJ:284:LEU:HD11	9:PJ:362:LYS:HG3	1.94	0.49
8:PK:51:THR:HG21	8:PK:243:ARG:HG2	1.94	0.49
8:QE:386:GLU:HG3	8:QE:390:ARG:CZ	2.41	0.49
8:QG:72:PRO:O	8:QG:76:ASP:HB2	2.12	0.49
9:QJ:138:SER:HA	9:QJ:169:VAL:HB	1.93	0.49
9:QL:200:TYR:HE2	9:QL:368:ILE:HG12	1.77	0.49
54:R:219:THR:HG22	54:R:221:SER:H	1.76	0.49
9:RH:256:ASN:HB2	9:RH:350:LYS:HD2	1.94	0.49
8:RI:28:HIS:CE1	8:RI:243:ARG:HH11	2.30	0.49
8:RI:238:ILE:HD11	8:RI:378:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SC:288:VAL:HG21	8:SC:323:VAL:HG23	1.93	0.49
8:SE:408:TYR:HB3	8:SE:413:MET:HE3	1.94	0.49
8:SG:113:GLU:N	8:SG:113:GLU:OE1	2.46	0.49
9:SH:374:ILE:HD11	9:SH:422:TYR:OH	2.13	0.49
9:SL:294:PHE:HE1	9:SL:313:VAL:HG11	1.77	0.49
8:TC:51:THR:HG21	8:TC:243:ARG:HG2	1.93	0.49
9:TH:324:LYS:HD2	8:TI:210:TYR:CD1	2.47	0.49
9:TJ:109:GLY:O	9:TJ:113:VAL:HB	2.12	0.49
9:UL:192:LEU:O	9:UL:196:THR:OG1	2.29	0.49
8:VC:134:GLY:HA3	8:VC:165:SER:HB2	1.93	0.49
8:VC:206:ASN:OD1	67:VC:501:GTP:N2	2.38	0.49
9:VJ:372:THR:HG22	9:VJ:375:GLN:HE22	1.77	0.49
9:VL:172:SER:HA	9:VL:205:GLU:OE1	2.11	0.49
9:VN:204:ASN:ND2	69:VN:501:GDP:O2'	2.45	0.49
9:WB:97:ALA:HA	9:WB:103:LYS:HD3	1.95	0.49
9:WD:2:ARG:NH1	9:WD:240:LEU:HD23	2.28	0.49
9:WD:273:LEU:H	9:WD:292:GLN:HE22	1.59	0.49
9:WJ:170:VAL:HG23	9:WJ:203:ASP:HB3	1.93	0.49
9:WL:350:LYS:HD2	9:WL:351:THR:H	1.78	0.49
8:WM:206:ASN:OD1	67:WM:501:GTP:N2	2.37	0.49
57:YH:230:GLU:OE2	57:YH:234:ARG:NH2	2.44	0.49
60:g:74:ALA:HB3	60:g:83:ALA:HB3	1.94	0.49
60:g:571:LEU:HB3	60:g:573:LYS:HE2	1.94	0.49
62:j:56:LEU:HD11	62:j:71:MET:HE3	1.94	0.49
2:0E:12:VAL:HG22	2:0E:76:GLU:HG3	1.93	0.49
2:0Y:59:SER:C	2:0Y:64:ARG:HH12	2.21	0.49
2:0a:35:GLU:O	2:0a:40:LYS:NZ	2.40	0.49
2:0i:142:ILE:O	2:0i:146:LEU:HD12	2.12	0.49
9:AH:316:VAL:HG22	9:AH:352:ALA:HB3	1.94	0.49
9:AJ:24:ILE:HA	9:AJ:27:GLU:HB2	1.95	0.49
9:AJ:252:LYS:HG3	8:AK:100:ALA:HA	1.93	0.49
8:AK:117:LEU:HD13	8:BK:215:ARG:HH22	1.77	0.49
8:AK:234:ILE:O	8:AK:237:SER:OG	2.28	0.49
9:AL:230:SER:HA	9:AL:233:MET:HE2	1.94	0.49
13:Ab:292:VAL:HG12	13:Ab:303:GLY:H	1.78	0.49
14:Al:28:ARG:HH12	9:ED:285:THR:HG22	1.77	0.49
16:At:258:PRO:HA	8:EI:123:ARG:NH1	2.27	0.49
8:BA:408:TYR:HB3	8:BA:413:MET:HG2	1.94	0.49
9:BB:69:GLU:OE2	9:BB:71:GLY:N	2.44	0.49
8:BG:175:PRO:HB3	8:BG:390:ARG:HH11	1.77	0.49
9:BL:87:PRO:HD3	9:CL:281:TYR:CD2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BO:215:ALA:HA	19:BO:218:GLU:HG2	1.94	0.49
23:Bg:22:GLU:OE1	23:Bg:27:TRP:NE1	2.45	0.49
27:Bs:379:ALA:HA	64:ke:63:ARG:CZ	2.43	0.49
28:C4:478:ARG:NH1	32:Cp:280:LEU:HD22	2.28	0.49
8:CA:335:ILE:HA	8:CA:338:LYS:HZ3	1.77	0.49
9:CF:31:ASP:OD2	9:CF:35:THR:N	2.42	0.49
2:Cb:32:HIS:HA	2:Cb:35:GLU:HG2	1.94	0.49
2:Cd:15:LYS:NZ	2:Cd:72:ASP:OD2	2.41	0.49
32:Co:193:ASN:ND2	33:Cv:411:PHE:O	2.44	0.49
33:Ct:97:GLU:OE2	33:Ct:101:GLN:NE2	2.40	0.49
29:D2:138:GLN:NE2	29:D2:274:ARG:O	2.46	0.49
29:D2:157:SER:OG	29:D3:132:GLN:NE2	2.45	0.49
29:D3:292:THR:HG23	29:D4:412:ARG:NH1	2.27	0.49
29:D4:128:GLN:HE21	29:D8:161:TYR:HB2	1.77	0.49
29:D5:210:VAL:HG11	29:D5:349:ARG:HH21	1.77	0.49
9:DB:244:GLY:HA3	9:DB:354:CYS:HA	1.92	0.49
8:DE:345:ASP:O	9:DF:390:ARG:NH2	2.44	0.49
9:DF:226:ASN:HA	9:DF:229:VAL:HG22	1.93	0.49
9:DJ:176:SER:OG	9:DJ:177:ASP:N	2.46	0.49
28:DO:98:ASP:HA	28:DO:101:ARG:HG2	1.94	0.49
43:E1:150:ALA:HA	28:F3:119:ARG:HH22	1.77	0.49
8:EC:54:SER:OG	8:EC:55:GLU:N	2.42	0.49
9:EF:303:CYS:HB2	9:EF:376:GLU:OE1	2.11	0.49
8:EI:70:LEU:HD23	8:EI:114:ILE:HD12	1.92	0.49
8:EI:167:LEU:HD21	8:EI:255:PHE:HE1	1.76	0.49
8:EK:172:TYR:HB3	8:EK:204:VAL:HA	1.94	0.49
44:EV:63:ARG:NH2	44:EV:66:GLN:OE1	2.45	0.49
35:Ee:205:ASN:HA	35:Ee:210:ASN:HD22	1.77	0.49
35:Ee:209:VAL:O	9:LH:306:ARG:NH2	2.42	0.49
42:F:625:ILE:HG13	42:F:661:ILE:HB	1.94	0.49
42:F:738:VAL:HG22	8:IO:32:PRO:HG3	1.93	0.49
8:FC:329:ASN:ND2	9:FD:205:GLU:OE2	2.43	0.49
9:FL:87:PRO:HA	9:FL:90:PHE:HD2	1.77	0.49
9:FN:226:ASN:OD1	69:FN:501:GDP:N1	2.43	0.49
9:FN:299:MET:HE1	9:FN:367:PHE:CE1	2.47	0.49
45:G:281:TYR:HE2	8:HM:81:GLY:HA3	1.77	0.49
9:GB:316:VAL:HG23	9:GB:366:THR:HB	1.95	0.49
8:GE:175:PRO:HB3	8:GE:390:ARG:CZ	2.42	0.49
9:GF:262:ARG:NH2	9:GF:414:ASN:OD1	2.45	0.49
9:GL:306:ARG:HH21	9:GL:340:TYR:HE2	1.59	0.49
9:HB:3:GLU:N	9:HB:3:GLU:OE1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HJ:334:GLN:HE22	9:HJ:347:ASN:HA	1.76	0.49
47:I:472:VAL:HG11	47:I:498:VAL:HG22	1.95	0.49
8:IM:143:GLY:O	8:IM:147:SER:OG	2.30	0.49
9:JB:161:ASP:OD1	9:JB:161:ASP:N	2.45	0.49
9:KD:257:MET:HE3	9:KD:314:ALA:HB2	1.95	0.49
8:KI:203:MET:HE2	8:KI:384:ILE:HD11	1.94	0.49
9:KN:327:ASP:OD1	8:KO:177:VAL:HB	2.11	0.49
50:L1:23:SER:HA	59:a:248:ARG:HH21	1.77	0.49
9:LD:311:LEU:HD23	9:LD:342:VAL:HG21	1.94	0.49
8:LK:200:CYS:HA	8:LK:266:HIS:HB2	1.94	0.49
8:ME:326:LYS:NZ	9:MF:208:TYR:HB3	2.27	0.49
8:MM:137:ILE:HB	8:MM:168:GLU:OE1	2.12	0.49
8:MM:157:LEU:HD23	8:MM:166:LYS:HD2	1.94	0.49
9:NB:184:ASN:OD1	9:NB:398:TYR:OH	2.30	0.49
8:NC:320:ARG:HH12	8:NC:360:PRO:HA	1.77	0.49
9:NF:237:THR:O	9:NF:241:ARG:NH1	2.45	0.49
9:NJ:203:ASP:HB2	9:NJ:301:ALA:HA	1.93	0.49
8:NK:194:THR:HG22	8:NK:198:SER:HB3	1.94	0.49
9:OB:73:MET:HA	9:OB:76:VAL:HG22	1.94	0.49
9:OF:329:GLN:HA	9:OF:332:ASN:HD22	1.77	0.49
8:OK:190:THR:O	8:OK:194:THR:OG1	2.23	0.49
8:PC:9:VAL:HG11	8:PC:150:ALA:HB2	1.95	0.49
8:PC:237:SER:OG	8:PC:376:CYS:SG	2.57	0.49
9:PJ:308:GLY:HA3	9:PJ:373:ALA:HB2	1.94	0.49
8:PK:238:ILE:HD11	8:PK:378:LEU:HD21	1.93	0.49
8:PK:399:TYR:OH	8:PK:415:GLU:OE2	2.24	0.49
8:QM:88:HIS:CE1	8:QM:90:GLU:HB2	2.47	0.49
9:RB:257:MET:HG2	9:RB:266:PHE:CZ	2.47	0.49
9:RB:371:SER:OG	9:RB:372:THR:N	2.43	0.49
8:RE:319:TYR:HB3	8:RE:323:VAL:HG11	1.93	0.49
8:RK:150:ALA:O	8:RK:154:MET:HG2	2.12	0.49
8:SK:274:PRO:HG3	8:SK:374:ALA:HA	1.94	0.49
8:SM:408:TYR:HB3	8:SM:413:MET:HE3	1.93	0.49
9:TF:210:ILE:O	9:TF:214:THR:OG1	2.29	0.49
9:TF:324:LYS:HE3	8:TG:210:TYR:CD1	2.48	0.49
9:TL:105:HIS:CD2	9:TL:150:LEU:HB2	2.48	0.49
9:UB:2:ARG:NH2	8:UC:71:GLU:OE2	2.45	0.49
9:UB:66:VAL:HG21	9:UB:116:VAL:HG11	1.93	0.49
9:UF:325:GLU:O	9:UF:329:GLN:HG2	2.12	0.49
8:UK:352:LYS:HG2	9:UL:179:VAL:HG13	1.95	0.49
9:UL:7:LEU:HD12	9:UL:135:LEU:HD12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UL:139:LEU:HG	9:UL:168:SER:HB3	1.95	0.49
9:VD:252:LYS:NZ	67:VE:501:GTP:O3G	2.38	0.49
8:VI:329:ASN:HA	8:VI:332:ILE:HD12	1.93	0.49
9:VL:325:GLU:OE2	8:VM:221:ARG:HG3	2.13	0.49
9:WF:36:TYR:OH	9:WF:40:SER:O	2.27	0.49
9:WF:136:THR:HG22	9:WF:167:PHE:HB2	1.94	0.49
9:WL:161:ASP:OD1	9:WL:162:ARG:NH1	2.44	0.49
56:XG:57:THR:HG23	56:XG:158:ALA:HB2	1.95	0.49
57:YH:188:PRO:O	57:YH:191:ARG:NH2	2.45	0.49
57:YI:70:THR:OG1	57:YI:118:GLU:OE2	2.29	0.49
57:YL:154:LYS:O	57:YL:158:ASN:HB2	2.13	0.49
59:c:254:ARG:HG3	59:c:257:ARG:HH22	1.77	0.49
2:0E:18:ILE:HD12	9:RJ:39:ASP:HB2	1.93	0.49
2:0i:114:LEU:C	2:0i:115:ARG:HD3	2.38	0.49
2:0k:10:ARG:HD2	2:0k:14:GLN:NE2	2.26	0.49
7:A7:134:ASP:OD1	7:A7:134:ASP:N	2.44	0.49
9:AB:91:VAL:HG21	9:AB:116:VAL:HB	1.93	0.49
9:AB:207:LEU:HB3	9:AB:225:LEU:HD22	1.93	0.49
9:AD:21:TRP:O	9:AD:25:SER:OG	2.23	0.49
9:AF:211:CYS:HA	9:AF:215:LEU:HB2	1.95	0.49
9:AJ:131:GLN:HA	9:AJ:162:ARG:HH21	1.76	0.49
11:AT:68:GLN:OE1	9:MH:218:THR:OG1	2.26	0.49
13:Aa:675:ASN:OD1	13:Aa:678:SER:N	2.42	0.49
16:Ax:127:ILE:HG23	9:FD:294:PHE:HZ	1.76	0.49
7:Az:217:GLY:HA3	8:PM:338:LYS:HD3	1.95	0.49
18:B5:131:LYS:HD2	8:KK:215:ARG:HA	1.92	0.49
18:B5:200:LEU:HD21	18:B5:247:LEU:HB3	1.93	0.49
8:BA:362:VAL:HG21	8:BA:370:LYS:NZ	2.26	0.49
8:BI:3:GLU:OE2	8:BI:130:THR:OG1	2.28	0.49
9:BJ:1:MET:N	9:BJ:48:ASN:OD1	2.30	0.49
19:BR:26:ARG:HH12	19:BR:30:GLU:HG2	1.76	0.49
14:Bb:196:THR:OG1	33:Cu:422:LEU:N	2.44	0.49
21:Bk:335:ARG:NH2	8:KK:285:GLN:HA	2.26	0.49
28:C4:137:LYS:NZ	33:Cu:288:GLU:OE2	2.41	0.49
28:C7:218:GLU:HB3	28:C7:343:VAL:HG22	1.93	0.49
8:CE:226:ASN:ND2	8:CE:367:ASP:OD2	2.45	0.49
9:CL:65:LEU:HB2	9:CL:90:PHE:HA	1.94	0.49
2:CZ:65:ARG:NH2	9:OD:38:GLY:O	2.44	0.49
29:Cz:298:THR:HG1	29:Cz:299:TRP:CD1	2.31	0.49
29:D1:169:GLU:CD	29:D1:321:ARG:HH22	2.18	0.49
9:DH:346:PRO:HB3	8:DI:394:LYS:HE2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DI:394:LYS:O	8:DI:394:LYS:HG3	2.13	0.49
9:DL:204:ASN:OD1	69:DL:501:GDP:N2	2.40	0.49
9:DL:257:MET:SD	9:DL:312:THR:OG1	2.53	0.49
43:E2:11:PRO:HD2	44:EV:267:ARG:HH12	1.77	0.49
43:E3:98:TYR:O	43:E3:101:ARG:HB3	2.12	0.49
29:EA:287:GLU:HG3	29:EO:423:VAL:HG11	1.94	0.49
9:EH:242:PHE:HB3	9:EH:356:ILE:HD13	1.94	0.49
44:EW:248:GLU:OE2	44:EZ:374:GLN:NE2	2.40	0.49
9:FF:309:ARG:NH2	9:FF:339:SER:O	2.45	0.49
8:FI:142:GLY:O	8:FI:186:ASN:ND2	2.30	0.49
9:FN:382:SER:OG	9:FN:412:GLU:OE1	2.27	0.49
9:GD:28:HIS:HA	9:GD:43:GLN:HB2	1.94	0.49
9:GL:100:ASN:OD1	9:GL:100:ASN:N	2.45	0.49
9:GN:211:CYS:HA	9:GN:215:LEU:HB2	1.93	0.49
8:HE:399:TYR:O	8:HE:402:ARG:NH1	2.44	0.49
8:HK:292:THR:HG1	8:HK:319:TYR:HH	1.60	0.49
8:IE:2:ARG:HG2	8:IE:133:GLN:HE22	1.78	0.49
8:IG:103:TYR:HD2	8:IG:413:MET:HE1	1.77	0.49
9:IH:376:GLU:OE2	9:IH:380:ARG:NH2	2.44	0.49
8:II:133:GLN:NE2	8:II:251:ASP:OD2	2.45	0.49
9:IJ:46:ARG:HH21	8:IK:73:THR:HA	1.77	0.49
8:IK:26:LEU:HD12	8:IK:363:VAL:HG12	1.94	0.49
9:IL:330:MET:HA	9:IL:330:MET:HE3	1.93	0.49
8:IO:271:THR:HB	8:IO:301:GLN:HA	1.95	0.49
8:IO:420:GLU:N	8:IO:420:GLU:OE1	2.45	0.49
9:JB:330:MET:HA	9:JB:333:VAL:HG12	1.94	0.49
8:JC:105:ARG:HD3	8:JC:109:THR:OG1	2.12	0.49
8:JC:416:GLY:O	8:JC:419:SER:OG	2.30	0.49
9:JF:351:THR:HB	8:JG:179:THR:HG23	1.94	0.49
8:JM:56:THR:HG22	8:JM:58:ALA:H	1.77	0.49
8:JM:214:ARG:NH1	51:O:38:SER:OG	2.46	0.49
8:KE:138:PHE:HZ	8:KE:235:VAL:HG21	1.77	0.49
8:KI:3:GLU:HA	8:KI:51:THR:HA	1.93	0.49
9:KL:52:ASN:OD1	9:KL:62:ARG:NH1	2.45	0.49
9:LB:165:ASN:HD21	9:LB:250:LEU:HD13	1.77	0.49
9:LB:354:CYS:SG	9:LB:355:ASP:N	2.86	0.49
9:LD:346:PRO:HG3	8:LE:394:LYS:HB3	1.92	0.49
8:LE:367:ASP:OD1	8:LE:367:ASP:N	2.37	0.49
8:LI:437:VAL:O	9:LJ:391:ARG:NH1	2.42	0.49
8:LK:203:MET:HE1	8:LK:384:ILE:HD11	1.93	0.49
8:MC:174:ALA:HB1	8:MC:207:GLU:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MM:180:ALA:HB3	8:MM:183:GLU:HG3	1.95	0.49
9:N0:21:TRP:O	9:N0:25:SER:OG	2.21	0.49
8:NC:196:GLU:N	8:NC:196:GLU:OE2	2.44	0.49
9:NH:137:HIS:NE2	9:NH:166:THR:OG1	2.46	0.49
9:NL:334:GLN:OE1	9:NL:348:ASN:ND2	2.41	0.49
9:O0:204:ASN:ND2	69:O0:501:GDP:O2'	2.45	0.49
8:OE:358:GLN:OE1	8:OE:359:PRO:HD2	2.13	0.49
8:OG:79:ARG:NH2	8:OG:92:LEU:O	2.45	0.49
8:OG:217:LEU:HB3	8:OG:219:ILE:HG22	1.94	0.49
9:OH:252:LYS:HG2	8:OI:100:ALA:HA	1.94	0.49
9:PD:58:LYS:HE2	9:QD:281:TYR:HA	1.93	0.49
9:PD:293:MET:SD	9:PD:367:PHE:HB2	2.53	0.49
8:PG:286:LEU:HB3	8:PG:372:GLN:HE22	1.76	0.49
9:PH:164:MET:HE3	9:PH:196:THR:HA	1.94	0.49
9:PH:331:LEU:HD21	8:PI:176:GLN:HB3	1.93	0.49
9:PJ:145:SER:OG	9:PJ:188:SER:OG	2.26	0.49
9:PJ:386:THR:O	9:PJ:390:ARG:NH1	2.46	0.49
8:QA:231:ILE:HA	8:QA:234:ILE:HD12	1.94	0.49
8:QA:274:PRO:HG3	8:QA:374:ALA:HA	1.94	0.49
9:QD:364:SER:OG	9:QD:365:ALA:N	2.44	0.49
8:QI:220:GLU:OE2	8:QI:220:GLU:N	2.46	0.49
9:QJ:210:ILE:O	9:QJ:214:THR:OG1	2.28	0.49
8:QK:136:LEU:HD22	8:QK:138:PHE:HE1	1.78	0.49
8:QM:71:GLU:OE1	8:QM:73:THR:OG1	2.27	0.49
8:QM:297:GLU:OE2	8:QM:297:GLU:N	2.42	0.49
9:RB:143:THR:O	9:RB:147:MET:HG2	2.12	0.49
9:RB:235:GLY:HA2	9:RB:318:ARG:NH2	2.28	0.49
9:RB:378:PHE:HA	9:RB:381:ILE:HG12	1.94	0.49
8:RC:132:LEU:H	8:RC:132:LEU:HD12	1.77	0.49
8:RE:150:ALA:O	8:RE:154:MET:HG2	2.13	0.49
9:RJ:68:LEU:HB3	9:RJ:96:GLY:HA2	1.92	0.49
8:RK:70:LEU:HD13	8:RK:145:THR:HB	1.93	0.49
8:RM:217:LEU:HB3	8:RM:219:ILE:HG22	1.94	0.49
8:SA:243:ARG:HG2	8:SA:244:PHE:CD1	2.42	0.49
9:SB:376:GLU:HA	9:SB:379:LYS:HB3	1.95	0.49
8:SC:217:LEU:O	8:SC:277:SER:OG	2.31	0.49
9:SH:139:LEU:HG	9:SH:168:SER:HB2	1.94	0.49
9:TB:211:CYS:HA	9:TB:215:LEU:HB2	1.93	0.49
9:TF:128:ASP:OD1	9:TF:128:ASP:N	2.43	0.49
8:TK:60:LYS:NZ	8:UK:282:TYR:O	2.45	0.49
8:TM:133:GLN:O	8:TM:165:SER:OG	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UB:200:TYR:HE2	9:UB:368:ILE:HD12	1.77	0.49
9:UB:401:GLU:N	9:UB:401:GLU:OE1	2.45	0.49
8:UC:241:SER:OG	8:UC:250:VAL:O	2.26	0.49
9:UN:117:LEU:HA	9:UN:120:VAL:HG12	1.93	0.49
9:UN:158:GLU:HG2	9:UN:159:TYR:CD1	2.47	0.49
9:VF:226:ASN:HA	9:VF:229:VAL:HG12	1.95	0.49
9:VN:232:THR:HG22	9:VN:270:PHE:HB2	1.94	0.49
8:WC:10:GLY:HA2	8:WC:145:THR:HG23	1.94	0.49
9:WJ:314:ALA:HB3	9:WJ:368:ILE:HB	1.93	0.49
56:XK:96:ASP:OD1	56:XK:96:ASP:N	2.44	0.49
4:y:1356:SER:OG	4:y:1358:ASP:OD1	2.29	0.49
2:0C:133:ASN:O	2:0C:134:HIS:ND1	2.46	0.49
6:A0:67:ALA:HB1	9:IJ:336:LYS:NZ	2.27	0.49
7:A3:49:PRO:O	9:QL:332:ASN:ND2	2.45	0.49
7:A7:55:GLY:HA3	9:SJ:306:ARG:HH11	1.78	0.49
8:AA:241:SER:OG	8:AA:250:VAL:O	2.28	0.49
8:AE:320:ARG:HG3	8:AE:374:ALA:HB3	1.95	0.49
8:AG:140:SER:OG	67:AG:501:GTP:O2A	2.28	0.49
11:AT:233:GLY:HA3	8:GE:370:LYS:HD2	1.94	0.49
9:BF:172:SER:HB3	9:BF:175:VAL:HB	1.95	0.49
8:BI:2:ARG:HA	8:BI:133:GLN:NE2	2.27	0.49
8:BI:206:ASN:OD1	67:BI:501:GTP:O2'	2.27	0.49
8:BM:335:ILE:HA	8:BM:338:LYS:HZ2	1.76	0.49
19:BR:234:LEU:HD23	19:BR:296:ALA:HB1	1.93	0.49
20:BT:265:THR:OG1	20:BT:266:GLY:N	2.45	0.49
21:Bj:168:LYS:NZ	33:Cs:4:LEU:O	2.40	0.49
28:C2:89:THR:HG23	28:C2:90:LEU:HD23	1.95	0.49
28:C2:123:ASP:HB3	28:C3:437:ARG:HH12	1.77	0.49
28:C7:84:VAL:HG21	44:ES:164:HIS:CD2	2.47	0.49
2:CX:56:HIS:HB3	2:CX:57:HIS:CE1	2.47	0.49
2:CZ:55:GLU:OE1	2:CZ:56:HIS:ND1	2.45	0.49
2:Cb:24:PHE:HB2	9:QD:41:ASP:OD1	2.12	0.49
2:Cb:92:PRO:HA	2:Cb:95:ASN:HB2	1.94	0.49
2:Ck:96:ASN:N	2:Ck:96:ASN:OD1	2.43	0.49
29:D5:159:LEU:HA	29:D5:307:ILE:HD11	1.94	0.49
9:DB:316:VAL:HG13	9:DB:352:ALA:HB3	1.94	0.49
9:DB:371:SER:OG	9:DB:372:THR:N	2.45	0.49
9:DD:326:VAL:HG11	9:DD:351:THR:HG21	1.94	0.49
9:DH:334:GLN:NE2	9:DH:347:ASN:OD1	2.44	0.49
8:DI:280:LYS:HE3	8:DI:280:LYS:O	2.13	0.49
8:DK:298:PRO:HB3	8:DK:306:ASP:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DM:201:ALA:HB1	8:DM:203:MET:HE3	1.93	0.49
38:Dh:137:GLU:OE1	38:Dh:137:GLU:N	2.35	0.49
39:Dk:69:CYS:SG	39:Dk:70:GLY:N	2.81	0.49
8:EE:402:ARG:HD2	8:EE:405:VAL:HG11	1.94	0.49
8:EI:137:ILE:HG21	8:EI:154:MET:HE2	1.94	0.49
8:EI:344:VAL:HG12	8:EI:346:TRP:H	1.77	0.49
44:ES:81:SER:CA	44:EV:394:LYS:HZ1	2.19	0.49
8:FE:324:VAL:HG21	9:FF:219:THR:HB	1.94	0.49
45:G:179:GLN:NE2	45:G:215:LYS:O	2.43	0.49
9:GB:211:CYS:HA	9:GB:215:LEU:HB2	1.93	0.49
9:GD:10:GLY:O	9:GD:14:ASN:ND2	2.43	0.49
8:GG:172:TYR:N	8:GG:204:VAL:O	2.37	0.49
9:HF:48:ASN:O	9:HF:62:ARG:NH2	2.45	0.49
8:HM:196:GLU:N	8:HM:196:GLU:OE2	2.45	0.49
9:IB:135:LEU:HD22	9:IB:152:ILE:HD11	1.95	0.49
9:IJ:346:PRO:HG3	8:IK:394:LYS:HB3	1.95	0.49
9:JD:117:LEU:HB3	9:JD:121:ARG:NH1	2.27	0.49
8:JM:82:THR:HG21	1:V:162:PRO:HD3	1.94	0.49
8:KG:3:GLU:N	8:KG:3:GLU:OE1	2.44	0.49
8:KI:9:VAL:HG11	8:KI:150:ALA:HB2	1.94	0.49
9:KJ:139:LEU:HB2	9:KJ:171:PRO:HD2	1.94	0.49
8:LI:271:THR:HB	8:LI:377:MET:HB3	1.93	0.49
9:MB:295:ASP:OD2	9:MB:296:ALA:N	2.46	0.49
9:MJ:309:ARG:NH1	9:MJ:339:SER:O	2.45	0.49
9:ML:337:ASN:OD1	9:ML:337:ASN:N	2.41	0.49
9:NB:250:LEU:HA	9:NB:253:LEU:HB2	1.94	0.49
9:ND:293:MET:HE3	9:ND:367:PHE:HD1	1.78	0.49
9:NF:40:SER:OG	9:NF:41:ASP:N	2.45	0.49
8:NK:188:ILE:HA	8:NK:191:THR:HG22	1.94	0.49
8:OA:236:SER:OG	8:OA:243:ARG:NH2	2.44	0.49
9:OF:42:LEU:HD22	9:OF:356:ILE:HD11	1.95	0.49
8:PA:322:ASP:OD1	8:PA:322:ASP:N	2.43	0.49
8:PA:349:THR:OG1	8:PA:350:GLY:N	2.46	0.49
8:PE:268:PRO:HA	8:PE:380:ASN:HA	1.94	0.49
9:PF:275:SER:OG	9:PF:278:SER:OG	2.26	0.49
9:PJ:20:PHE:HA	9:PJ:230:SER:HB2	1.94	0.49
8:QA:320:ARG:NH2	8:QA:358:GLN:O	2.45	0.49
9:QD:190:HIS:NE2	9:QD:410:GLU:OE1	2.41	0.49
8:QI:21:TRP:HH2	8:QI:52:PHE:HB3	1.77	0.49
8:QK:224:TYR:O	8:QK:228:ASN:ND2	2.45	0.49
8:RA:259:LEU:HD12	8:RA:260:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RB:116:VAL:HG11	9:RB:151:LEU:HD11	1.94	0.49
9:RB:263:LEU:HG	9:RB:422:TYR:CE1	2.48	0.49
8:RC:70:LEU:HD22	8:RC:145:THR:HB	1.95	0.49
9:RF:153:SER:OG	9:RF:191:GLN:NE2	2.39	0.49
8:RG:155:GLU:OE2	8:RG:193:THR:OG1	2.29	0.49
9:RH:344:TRP:CD1	9:RH:345:ILE:HG12	2.47	0.49
9:RL:173:PRO:HD2	9:RL:174:LYS:N	2.27	0.49
9:SB:140:GLY:O	9:SB:184:ASN:ND2	2.44	0.49
8:SG:172:TYR:HH	8:SG:388:TRP:CD1	2.31	0.49
9:SJ:249:ASP:OD1	9:SJ:249:ASP:N	2.36	0.49
8:SM:226:ASN:ND2	8:SM:367:ASP:OD2	2.45	0.49
8:TE:288:VAL:O	8:TE:292:THR:OG1	2.30	0.49
8:TK:155:GLU:HA	8:TK:197:HIS:HD2	1.78	0.49
8:TK:319:TYR:HB2	8:TK:355:ILE:HD13	1.93	0.49
9:UB:257:MET:HB3	9:UB:266:PHE:HZ	1.76	0.49
9:UB:423:GLN:HE22	9:UB:426:GLN:HE21	1.60	0.49
9:VF:2:ARG:HB3	9:VF:131:GLN:HG3	1.95	0.49
9:VL:204:ASN:OD1	69:VL:501:GDP:N2	2.45	0.49
9:WB:52:ASN:OD1	9:WB:62:ARG:NH1	2.45	0.49
9:WB:221:THR:HG23	9:WB:223:GLY:H	1.77	0.49
8:WG:345:ASP:OD1	8:WG:345:ASP:N	2.44	0.49
9:WJ:346:PRO:HB3	8:WK:394:LYS:HD2	1.95	0.49
9:WL:354:CYS:SG	9:WL:355:ASP:N	2.86	0.49
9:WN:267:MET:HE2	9:WN:299:MET:HG3	1.95	0.49
57:YG:157:LEU:HB3	57:YG:196:ILE:HG21	1.94	0.49
59:c:287:TYR:CE2	59:c:291:LEU:HD12	2.48	0.49
60:g:178:VAL:HG22	60:g:188:TRP:HE1	1.77	0.49
4:y:1358:ASP:OD1	4:y:1358:ASP:N	2.45	0.49
8:AA:154:MET:HE1	8:AA:168:GLU:HB3	1.94	0.49
12:AV:362:GLU:N	12:AV:362:GLU:OE1	2.44	0.49
13:Ab:612:GLN:O	13:Ab:616:ASN:ND2	2.45	0.49
13:Ab:642:LYS:NZ	13:Ab:672:LYS:O	2.41	0.49
16:Ax:54:ARG:NH1	9:EH:402:GLY:O	2.44	0.49
9:BD:10:GLY:O	9:BD:14:ASN:ND2	2.45	0.49
9:BH:68:LEU:HD13	9:BH:108:GLU:HG3	1.95	0.49
19:BP:131:ARG:HH22	9:MF:407:GLU:HG2	1.77	0.49
19:BP:205:GLU:O	19:BP:209:MET:HG3	2.11	0.49
19:BQ:241:ARG:NH1	19:BQ:287:GLY:O	2.45	0.49
21:Bk:345:LEU:O	21:Bk:349:GLN:HG3	2.13	0.49
28:C0:402:GLU:HG3	28:C9:270:LYS:NZ	2.27	0.49
9:CB:67:ASP:HA	9:CB:143:THR:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:178:THR:HB	9:CD:181:GLU:HG2	1.93	0.49
8:CK:180:ALA:HB3	8:CK:183:GLU:HG3	1.95	0.49
9:CL:246:LEU:HD21	8:CM:179:THR:HG21	1.93	0.49
32:Co:142:ILE:HD12	32:Co:256:GLN:HG2	1.95	0.49
33:Ct:343:HIS:O	33:Ct:346:GLU:HG3	2.12	0.49
29:D1:183:ALA:HA	29:D1:186:GLU:HG2	1.94	0.49
29:D5:318:ILE:HG22	29:D5:321:ARG:HH21	1.78	0.49
29:D5:333:ASP:OD1	29:D5:337:ARG:NH2	2.45	0.49
29:D8:208:ASP:OD2	29:D9:98:TRP:NE1	2.36	0.49
9:DD:267:MET:HE2	9:DD:299:MET:HB3	1.94	0.49
9:DF:221:THR:OG1	9:DF:222:TYR:N	2.45	0.49
8:DG:71:GLU:HG2	8:DG:73:THR:HG22	1.93	0.49
9:DH:197:ASP:N	9:DH:197:ASP:OD2	2.45	0.49
8:DK:294:ALA:O	8:DK:300:ASN:ND2	2.42	0.49
35:Da:209:VAL:HB	9:LD:306:ARG:HH21	1.78	0.49
9:EB:230:SER:HA	9:EB:233:MET:HG2	1.95	0.49
8:EC:157:LEU:HD22	8:EC:166:LYS:HE2	1.94	0.49
9:ED:345:ILE:O	9:ED:348:ASN:ND2	2.39	0.49
8:EG:414:GLU:CD	8:EG:416:GLY:H	2.20	0.49
44:ES:91:LEU:O	44:ES:95:THR:HG22	2.12	0.49
42:F:394:LYS:O	42:F:398:GLU:HG2	2.12	0.49
42:F:583:ARG:NH2	9:IN:219:THR:OG1	2.45	0.49
8:FE:178:SER:OG	8:FE:183:GLU:OE1	2.29	0.49
8:FE:255:PHE:HE1	8:FE:318:LEU:HD21	1.78	0.49
9:FF:4:ILE:HD11	9:FF:240:LEU:HD21	1.93	0.49
9:FH:167:PHE:CE2	9:FH:233:MET:HB2	2.48	0.49
9:FH:346:PRO:HD2	8:FI:398:MET:HE2	1.93	0.49
9:FJ:7:LEU:HD21	9:FJ:151:LEU:HD13	1.94	0.49
9:FJ:286:VAL:HG21	9:FJ:326:VAL:HG22	1.93	0.49
8:GE:15:GLN:O	8:GE:228:ASN:ND2	2.46	0.49
9:GL:46:ARG:NH2	8:GM:72:PRO:O	2.45	0.49
9:HF:116:VAL:HG11	9:HF:151:LEU:HD11	1.93	0.49
8:HI:248:LEU:HD21	69:HJ:501:GDP:H2'	1.94	0.49
8:HK:142:GLY:O	8:HK:186:ASN:ND2	2.44	0.49
8:HK:382:THR:HA	8:HK:432:TYR:CE1	2.47	0.49
8:HM:319:TYR:HB3	8:HM:323:VAL:HG21	1.93	0.49
8:HO:191:THR:HA	8:HO:194:THR:HB	1.93	0.49
8:IK:217:LEU:HD13	8:IK:367:ASP:HB3	1.93	0.49
9:IL:94:GLN:HG3	51:O:136:PRO:HB2	1.94	0.49
9:IL:206:ALA:HB2	9:IL:302:ALA:HB2	1.94	0.49
9:JF:172:SER:OG	9:JF:175:VAL:O	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JH:135:LEU:HD22	9:JH:152:ILE:HD11	1.95	0.49
9:JH:346:PRO:HB3	8:JI:394:LYS:HE3	1.95	0.49
9:JL:330:MET:HA	9:JL:333:VAL:HG12	1.94	0.49
8:JM:258:ASN:HD21	9:JN:99:ASN:HD22	1.59	0.49
9:KD:100:ASN:HB3	9:KD:103:LYS:HG2	1.94	0.49
8:KE:298:PRO:HB3	8:KE:308:ARG:HH21	1.77	0.49
8:KG:335:ILE:HG23	8:KG:341:ILE:HD13	1.95	0.49
9:KH:275:SER:HB3	9:KH:278:SER:HB3	1.94	0.49
8:KK:269:LEU:HD11	8:KK:384:ILE:HD13	1.95	0.49
9:KN:32:PRO:HG3	9:KN:81:PHE:CE1	2.48	0.49
9:LB:1:MET:N	9:LB:128:ASP:OD1	2.30	0.49
9:LB:375:GLN:HB2	9:LB:419:VAL:HG13	1.94	0.49
9:LD:64:VAL:HG21	9:LD:120:VAL:HG12	1.94	0.49
9:MB:210:ILE:O	9:MB:214:THR:HB	2.13	0.49
8:ME:116:ASP:OD1	8:ME:117:LEU:N	2.46	0.49
9:MF:194:GLU:HA	54:R:219:THR:HG23	1.95	0.49
9:NB:256:ASN:HD21	9:NB:350:LYS:HZ2	1.61	0.49
67:NB:502:GTP:O2A	8:NC:143:GLY:N	2.42	0.49
8:OC:186:ASN:HA	8:OC:189:LEU:HB2	1.94	0.49
9:OF:191:GLN:N	9:OF:191:GLN:OE1	2.46	0.49
8:OI:7:ILE:HB	8:OI:137:ILE:HD13	1.94	0.49
9:OL:97:ALA:HB3	9:OL:143:THR:HB	1.95	0.49
9:PH:39:ASP:OD1	9:PH:39:ASP:N	2.45	0.49
8:QC:4:CYS:HA	8:QC:134:GLY:HA3	1.94	0.49
8:QE:437:VAL:O	9:QF:391:ARG:NH2	2.42	0.49
9:QF:238:THR:HG21	9:QF:318:ARG:HH11	1.76	0.49
8:QG:107:HIS:HB3	8:QG:149:PHE:HA	1.94	0.49
8:QG:338:LYS:HE2	8:QG:340:THR:HB	1.95	0.49
8:QK:136:LEU:HD23	8:QK:167:LEU:HB2	1.95	0.49
8:RA:139:HIS:HE1	8:RA:170:ALA:HB2	1.78	0.49
9:RB:257:MET:HG2	9:RB:266:PHE:CE1	2.47	0.49
9:RJ:156:ARG:HH12	9:RJ:164:MET:HB3	1.77	0.49
8:RK:2:ARG:NH1	8:RK:242:LEU:O	2.43	0.49
8:RK:319:TYR:HB3	8:RK:323:VAL:HG21	1.94	0.49
8:SA:275:VAL:HA	8:SA:368:LEU:HD11	1.94	0.49
8:SC:142:GLY:HA3	8:SC:183:GLU:HG2	1.94	0.49
8:SE:437:VAL:O	9:SF:391:ARG:NH2	2.45	0.49
9:SF:335:ASN:O	9:SF:338:SER:OG	2.31	0.49
8:SI:204:VAL:HG13	8:SI:302:MET:HB3	1.94	0.49
9:TB:83:GLN:OE1	9:TB:83:GLN:N	2.38	0.49
8:TE:16:ILE:HA	8:TE:228:ASN:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TI:217:LEU:HD21	8:TI:368:LEU:HD12	1.94	0.49
9:TJ:191:GLN:OE1	9:TJ:195:ASN:ND2	2.45	0.49
8:UE:195:LEU:HD13	8:UE:267:PHE:HZ	1.77	0.49
8:UE:345:ASP:OD1	8:UE:345:ASP:N	2.45	0.49
8:UE:392:ASP:OD2	8:UE:422:ARG:NH1	2.45	0.49
8:UK:205:ASP:HB3	8:UK:303:VAL:HA	1.92	0.49
8:VC:211:ASP:HB3	8:VC:215:ARG:HH12	1.77	0.49
8:WE:68:VAL:HG12	8:WE:93:ILE:HB	1.95	0.49
8:WE:120:ASP:OD1	8:WE:121:ARG:N	2.46	0.49
8:WI:223:THR:OG1	8:WI:224:TYR:N	2.43	0.49
8:WI:417:GLU:HA	8:WI:420:GLU:HG2	1.93	0.49
9:WJ:323:MET:HE1	8:WK:224:TYR:CD1	2.48	0.49
47:X:128:ASP:OD2	47:X:153:ARG:NH2	2.46	0.49
56:XH:76:LEU:HB3	56:XH:134:PHE:HB3	1.94	0.49
56:XK:82:ASN:ND2	56:XK:126:ASP:O	2.45	0.49
56:XM:81:LYS:HD2	56:XM:129:TRP:CZ2	2.48	0.49
60:e:563:PHE:HB3	60:e:575:TRP:HB2	1.94	0.49
60:g:386:MET:HA	60:g:428:THR:HG21	1.93	0.49
60:g:570:HIS:HB3	60:g:590:SER:HA	1.95	0.49
63:l:72:LEU:O	63:l:111:ARG:NH1	2.39	0.49
3:2:82:CYS:O	3:2:85:LYS:NZ	2.45	0.49
7:A1:91:GLY:HA3	9:PH:306:ARG:HH12	1.78	0.49
9:AH:74:ASP:OD1	9:AH:74:ASP:N	2.45	0.49
9:AL:336:LYS:HZ2	57:YG:47:MET:HE2	1.78	0.49
13:Ac:447:ASP:HB3	13:Ac:471:ARG:CZ	2.43	0.49
7:Aw:28:PRO:O	8:OE:340:THR:OG1	2.26	0.49
14:B7:20:TYR:OH	9:DJ:45:GLU:OE1	2.29	0.49
8:BC:186:ASN:OD1	8:BC:408:TYR:OH	2.24	0.49
8:CE:274:PRO:HG3	8:CE:374:ALA:HA	1.94	0.49
9:CF:320:ARG:HH21	38:Dg:18:GLN:H	1.60	0.49
8:CG:168:GLU:HB2	8:CG:201:ALA:HA	1.94	0.49
9:CL:234:SER:O	9:CL:241:ARG:NH2	2.45	0.49
33:Ct:177:ARG:HD3	43:E3:133:ARG:HB3	1.95	0.49
33:Cv:84:ASP:HB3	33:Cv:233:MET:HE1	1.95	0.49
29:D4:147:GLN:OE1	29:D8:143:ARG:NH1	2.45	0.49
29:D4:398:ARG:HD2	29:D4:419:LEU:HD21	1.94	0.49
9:DD:219:THR:O	9:DD:219:THR:OG1	2.28	0.49
8:DK:211:ASP:HA	8:DK:214:ARG:HH11	1.77	0.49
29:DS:379:MET:O	29:DS:383:ARG:HG2	2.12	0.49
42:E:733:ARG:HH21	9:IB:39:ASP:H	1.59	0.49
43:E3:90:ALA:HA	43:E3:93:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:E4:94:TRP:HE1	28:F6:152:ASP:CG	2.20	0.49
9:EB:7:LEU:HD23	9:EB:135:LEU:HD13	1.94	0.49
9:EL:271:ALA:HB1	9:EL:292:GLN:HB3	1.94	0.49
29:EO:113:ARG:HG3	29:EQ:370:GLU:HG2	1.94	0.49
29:EQ:405:ARG:HB2	29:EQ:410:LEU:HD13	1.95	0.49
44:EV:313:ASP:O	44:EV:317:LYS:HG2	2.12	0.49
9:FB:130:LEU:HB3	9:FB:162:ARG:HE	1.77	0.49
9:FJ:232:THR:HG21	9:FJ:268:PRO:HB2	1.95	0.49
8:GC:9:VAL:HG13	8:GC:139:HIS:HB3	1.95	0.49
9:GF:114:ASP:OD2	9:GF:115:SER:N	2.46	0.49
8:HE:202:PHE:CD2	8:HE:268:PRO:HG2	2.48	0.49
8:HM:180:ALA:HB3	8:HM:183:GLU:HG2	1.95	0.49
9:HN:427:ASP:OD1	9:HN:427:ASP:N	2.44	0.49
9:IB:266:PHE:HE1	9:IB:370:ASN:HB2	1.77	0.49
9:IL:377:LEU:HD12	9:IL:380:ARG:HH12	1.78	0.49
8:JC:317:MET:SD	8:JC:377:MET:HE3	2.53	0.49
9:JD:209:ASP:OD2	9:JD:213:ARG:NH2	2.43	0.49
9:JJ:113:VAL:HG21	9:JJ:150:LEU:HD23	1.94	0.49
9:JJ:231:ALA:HB1	9:JJ:270:PHE:CE2	2.47	0.49
9:KN:283:ALA:HB2	9:LN:54:ALA:HA	1.94	0.49
9:LH:284:LEU:HD13	9:LH:363:MET:H	1.77	0.49
8:MG:182:VAL:HG23	8:MG:186:ASN:HD21	1.77	0.49
8:MI:201:ALA:O	8:MI:268:PRO:HD2	2.13	0.49
9:MJ:245:GLN:O	8:MK:11:GLN:NE2	2.46	0.49
8:MK:367:ASP:OD1	8:MK:367:ASP:N	2.39	0.49
51:N:135:THR:HB	51:N:138:LEU:HD12	1.93	0.49
8:NA:259:LEU:HD11	8:NA:316:CYS:HB2	1.93	0.49
9:O0:260:PHE:CE2	8:OA:403:ALA:HA	2.47	0.49
8:OC:140:SER:OG	8:OC:141:PHE:N	2.45	0.49
8:OK:274:PRO:HB3	8:OK:291:ILE:HD11	1.94	0.49
8:PA:224:TYR:HA	8:PA:227:LEU:HD12	1.95	0.49
8:PA:328:VAL:O	8:PA:332:ILE:HG13	2.13	0.49
9:PD:149:THR:HG21	9:PD:188:SER:HB2	1.94	0.49
9:PD:161:ASP:OD1	9:PD:161:ASP:N	2.35	0.49
8:PE:437:VAL:O	9:PF:391:ARG:NH1	2.46	0.49
9:PL:100:ASN:ND2	9:PL:401:GLU:OE1	2.41	0.49
8:PM:297:GLU:OE1	8:PM:299:ALA:N	2.42	0.49
9:QD:210:ILE:O	9:QD:214:THR:OG1	2.24	0.49
8:QE:102:ASN:HA	8:QE:408:TYR:HE1	1.78	0.49
8:QE:274:PRO:HD3	8:QE:375:VAL:HG22	1.94	0.49
9:QF:70:PRO:HA	9:QF:73:MET:SD	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QH:221:THR:N	9:QH:224:ASP:OD2	2.45	0.49
9:QL:331:LEU:HD11	8:QM:176:GLN:HB3	1.95	0.49
8:RA:288:VAL:HG21	8:RA:323:VAL:HG13	1.94	0.49
9:RH:230:SER:HA	9:RH:233:MET:HG3	1.95	0.49
9:RL:249:ASP:OD1	9:RL:249:ASP:N	2.36	0.49
8:SA:209:ILE:HA	8:SA:212:ILE:HG22	1.94	0.49
8:TC:76:ASP:HA	8:TC:79:ARG:HB2	1.95	0.49
8:TI:218:ASP:OD1	8:TI:280:LYS:NZ	2.41	0.49
8:TK:276:ILE:HG21	8:TK:286:LEU:HD21	1.94	0.49
9:UB:135:LEU:HD22	9:UB:137:HIS:ND1	2.27	0.49
9:UF:322:SER:OG	9:UF:323:MET:N	2.45	0.49
9:UJ:27:GLU:OE2	9:UJ:241:ARG:NH1	2.46	0.49
9:VB:131:GLN:HE22	9:VB:240:LEU:HD21	1.78	0.49
8:VC:70:LEU:HD12	8:VC:99:ALA:HB2	1.95	0.49
9:VD:237:THR:HG22	9:VD:250:LEU:HD21	1.95	0.49
8:VG:265:ILE:HG21	8:VG:313:MET:HE1	1.95	0.49
9:VH:170:VAL:HG11	9:VH:377:LEU:HD11	1.95	0.49
8:VM:250:VAL:HG23	8:VM:254:GLU:HB2	1.94	0.49
8:WC:286:LEU:HD13	8:WC:371:VAL:HG23	1.94	0.49
9:WF:142:GLY:N	69:WF:501:GDP:O2B	2.42	0.49
8:WG:286:LEU:O	8:WG:373:ARG:NH1	2.46	0.49
57:YK:161:ASN:HB3	57:YK:164:VAL:HG12	1.95	0.49
57:YL:194:LEU:HA	57:YL:197:LEU:HB2	1.95	0.49
59:a:144:LYS:O	59:a:148:LYS:HB2	2.13	0.49
59:b:234:ARG:HH21	59:b:238:VAL:CG2	2.25	0.49
60:f:356:LYS:HA	60:f:379:THR:HA	1.95	0.49
60:g:275:LEU:HD21	60:g:289:LYS:HD3	1.95	0.49
60:g:605:ILE:HB	60:g:617:TRP:HB2	1.95	0.49
7:A1:150:PRO:HG3	9:PD:332:ASN:HD21	1.78	0.49
7:A7:227:THR:OG1	8:RA:113:GLU:O	2.30	0.49
7:A8:138:GLY:HA2	8:TK:338:LYS:HD2	1.93	0.49
7:A9:72:VAL:HG13	8:SC:117:LEU:HB2	1.94	0.49
9:AF:213:ARG:HG2	9:AF:297:LYS:HD2	1.95	0.49
9:AF:295:ASP:OD1	9:AF:295:ASP:N	2.44	0.49
14:B7:215:GLN:NE2	14:B7:225:PHE:O	2.46	0.49
8:BA:98:ASP:N	8:BA:98:ASP:OD1	2.45	0.49
9:BB:325:GLU:O	9:BB:329:GLN:HG3	2.12	0.49
8:BI:223:THR:HG22	14:BY:233:MET:HE2	1.93	0.49
8:BK:352:LYS:HA	9:BL:177:ASP:O	2.12	0.49
9:BL:192:LEU:O	9:BL:196:THR:OG1	2.27	0.49
14:Bb:95:TYR:OH	28:C4:224:ASP:OD2	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Bs:329:GLN:HE22	9:HH:359:ARG:HG2	1.77	0.49
28:C0:402:GLU:HG3	28:C9:270:LYS:HZ2	1.78	0.49
29:C1:413:ASP:OD1	29:C1:413:ASP:N	2.44	0.49
28:C5:345:LEU:HD13	33:Cx:80:LYS:HE3	1.94	0.49
8:CC:26:LEU:HD12	8:CC:363:VAL:HG12	1.94	0.49
9:CD:87:PRO:HG2	9:DD:278:SER:HB2	1.94	0.49
9:CD:104:GLY:HA2	9:CD:109:GLY:HA3	1.95	0.49
8:CG:5:ILE:HD13	8:CG:64:ARG:HB3	1.95	0.49
8:CG:203:MET:HG3	8:CG:384:ILE:HD11	1.94	0.49
9:CL:215:LEU:HD21	9:CL:273:LEU:HD22	1.95	0.49
29:Cz:357:LYS:HB3	29:Cz:357:LYS:HE2	1.44	0.49
8:DC:134:GLY:HA3	8:DC:165:SER:HB2	1.95	0.49
9:DL:311:LEU:HG	9:DL:312:THR:HG23	1.95	0.49
9:DN:211:CYS:O	9:DN:216:LYS:N	2.42	0.49
39:Dj:33:HIS:HE1	39:Dj:77:GLU:OE2	1.95	0.49
9:EB:10:GLY:O	9:EB:14:ASN:ND2	2.46	0.49
9:ED:67:ASP:OD2	9:ED:72:THR:OG1	2.28	0.49
9:EJ:173:PRO:HB2	9:EJ:380:ARG:HE	1.77	0.49
8:EM:168:GLU:HB3	8:EM:201:ALA:HA	1.94	0.49
8:EM:217:LEU:HB3	8:EM:219:ILE:HG22	1.93	0.49
29:EP:128:GLN:NE2	44:EZ:431:MET:HB3	2.27	0.49
44:EY:276:VAL:HG22	44:EY:279:ARG:HH12	1.77	0.49
8:FE:204:VAL:HG13	8:FE:302:MET:HB3	1.95	0.49
8:FE:344:VAL:HB	8:FE:346:TRP:CD1	2.47	0.49
8:FG:213:CYS:O	8:FG:219:ILE:N	2.37	0.49
9:FH:52:ASN:HB2	9:FH:60:VAL:HG12	1.93	0.49
9:GH:165:ASN:HB3	9:GH:167:PHE:HE1	1.76	0.49
9:GJ:256:ASN:HB3	9:GJ:350:LYS:HG3	1.95	0.49
9:GJ:350:LYS:HZ2	8:GK:180:ALA:HA	1.78	0.49
9:HB:234:SER:O	9:HB:241:ARG:NH2	2.46	0.49
8:HI:322:ASP:O	8:HI:373:ARG:NH1	2.46	0.49
9:HJ:282:ARG:NH2	9:HJ:292:GLN:OE1	2.42	0.49
8:HK:185:TYR:HD2	8:HK:408:TYR:HE2	1.59	0.49
9:IF:314:ALA:HB3	9:IF:368:ILE:HB	1.94	0.49
9:IN:164:MET:HB3	9:IN:196:THR:HA	1.95	0.49
9:JF:324:LYS:HB3	8:JG:222:PRO:HD2	1.95	0.49
8:JI:107:HIS:CE1	8:JI:152:LEU:HB2	2.48	0.49
49:K1:22:GLU:O	49:K1:26:LYS:HG2	2.13	0.49
9:KF:40:SER:HB3	9:KF:43:GLN:HE21	1.78	0.49
8:KO:313:MET:HE3	8:KO:435:VAL:HG11	1.95	0.49
50:L1:86:ASN:ND2	8:VC:81:GLY:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LB:299:MET:HA	9:LB:299:MET:HE3	1.95	0.49
8:LG:70:LEU:HB3	8:LG:98:ASP:HA	1.95	0.49
8:LI:130:THR:OG1	8:LI:131:GLY:N	2.46	0.49
8:MG:289:ALA:O	8:MG:293:ASN:ND2	2.46	0.49
8:MK:259:LEU:HD11	8:MK:378:LEU:HB2	1.95	0.49
9:N0:213:ARG:HD2	9:N0:297:LYS:HE2	1.94	0.49
8:NC:28:HIS:HE1	8:NC:243:ARG:HD2	1.78	0.49
8:NE:60:LYS:NZ	8:OE:283:HIS:HB2	2.28	0.49
8:NK:26:LEU:HD23	8:NK:363:VAL:HG12	1.94	0.49
9:OH:326:VAL:O	9:OH:330:MET:HG2	2.12	0.49
8:OK:139:HIS:HE1	8:OK:168:GLU:HG2	1.77	0.49
8:OK:166:LYS:N	8:OK:199:ASP:OD2	2.43	0.49
9:PB:323:MET:N	9:PB:323:MET:SD	2.85	0.49
9:PD:49:VAL:HG13	9:PD:50:TYR:CD1	2.44	0.49
8:PE:231:ILE:HA	8:PE:234:ILE:HG22	1.94	0.49
8:PI:200:CYS:HA	8:PI:266:HIS:HB2	1.94	0.49
9:QL:42:LEU:HD13	9:QL:356:ILE:HD11	1.95	0.49
8:RG:254:GLU:HB3	8:RG:352:LYS:HE3	1.94	0.49
8:RG:274:PRO:HG3	8:RG:374:ALA:HA	1.95	0.49
9:RH:375:GLN:HA	9:RH:378:PHE:HD2	1.76	0.49
9:RJ:382:SER:OG	9:RJ:383:GLU:OE2	2.30	0.49
8:RK:9:VAL:HA	8:RK:68:VAL:HB	1.95	0.49
9:SB:252:LYS:NZ	8:SC:101:ASN:OD1	2.42	0.49
8:SC:298:PRO:HA	8:SC:301:GLN:HE22	1.77	0.49
9:SD:207:LEU:HD12	9:SD:225:LEU:HG	1.95	0.49
8:SG:288:VAL:HG13	8:SG:319:TYR:HE2	1.78	0.49
9:TB:39:ASP:OD2	9:TB:40:SER:N	2.40	0.49
8:TE:96:LYS:HD3	8:TE:97:GLU:HG2	1.94	0.49
9:TF:256:ASN:HD21	8:TG:181:VAL:H	1.61	0.49
8:TM:196:GLU:N	8:TM:196:GLU:OE1	2.45	0.49
54:U:271:VAL:O	54:U:282:THR:HG23	2.13	0.49
8:UE:50:ASN:O	8:UE:64:ARG:NH2	2.40	0.49
9:UJ:74:ASP:OD1	9:UJ:74:ASP:N	2.43	0.49
9:VN:267:MET:HB2	9:VN:374:ILE:HD11	1.95	0.49
8:WC:231:ILE:O	8:WC:235:VAL:HG12	2.12	0.49
9:WH:237:THR:OG1	9:WH:241:ARG:NH1	2.45	0.49
8:WK:172:TYR:OH	8:WK:387:ALA:O	2.30	0.49
8:WK:224:TYR:HA	8:WK:227:LEU:HB2	1.94	0.49
8:WK:319:TYR:HB3	8:WK:323:VAL:HG11	1.94	0.49
47:X:474:LYS:HB3	47:X:483:VAL:HG13	1.95	0.49
56:XH:34:ILE:HG12	56:XH:49:ILE:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:XI:78:MET:HE2	56:XI:80:ILE:HD11	1.93	0.49
56:XJ:7:GLN:NE2	56:XJ:70:GLY:O	2.41	0.49
47:Y:300:VAL:HG12	47:Y:322:GLU:HB3	1.95	0.49
47:Y:472:VAL:HG23	47:Y:485:TYR:HD2	1.76	0.49
64:ke:18:MET:HG3	64:ke:25:TYR:HE1	1.77	0.49
63:l:103:LEU:HD21	63:l:115:PHE:HB3	1.94	0.49
7:A9:28:PRO:HB2	8:TE:298:PRO:HD3	1.95	0.49
8:AC:285:GLN:HG3	8:KE:56:THR:HG23	1.95	0.49
8:AE:319:TYR:HB3	8:AE:323:VAL:HG21	1.94	0.49
9:AF:222:TYR:O	9:AF:226:ASN:ND2	2.46	0.49
8:AM:17:GLY:HA2	8:AM:20:CYS:HB2	1.95	0.49
13:Ab:25:ASP:OD1	13:Ab:25:ASP:N	2.42	0.49
13:Ad:471:ARG:HD2	13:Ad:487:TYR:HD2	1.77	0.49
14:Ao:80:ASP:HB2	28:C3:104:LEU:HD21	1.94	0.49
15:Aq:187:PRO:HA	15:Aq:190:ARG:HG2	1.95	0.49
17:B0:41:LYS:HA	17:B0:41:LYS:HE3	1.94	0.49
9:BB:137:HIS:ND1	9:BB:144:GLY:O	2.42	0.49
8:BG:196:GLU:HG2	8:BG:197:HIS:CD2	2.47	0.49
8:BI:1:MET:HE2	9:BJ:70:PRO:HG3	1.94	0.49
23:Bg:63:TYR:OH	8:GM:228:ASN:ND2	2.45	0.49
24:Bh:113:PHE:HB2	8:HI:214:ARG:HH22	1.77	0.49
27:Br:71:GLU:OE1	27:Br:75:LYS:HD2	2.12	0.49
5:C:167:SER:O	5:C:167:SER:OG	2.28	0.49
8:CC:14:VAL:HG23	8:CC:67:PHE:CD2	2.47	0.49
9:CH:276:ARG:NH1	47:I:316:SER:OG	2.46	0.49
2:CZ:104:LEU:HB3	2:CZ:145:ILE:HD11	1.95	0.49
2:Cf:127:SER:O	8:QG:85:GLN:NE2	2.45	0.49
2:Ck:70:PHE:CE2	2:Ck:142:ILE:HD11	2.48	0.49
33:Cu:154:LYS:NZ	33:Cu:246:THR:OG1	2.45	0.49
33:Cv:342:VAL:O	33:Cv:346:GLU:HG3	2.13	0.49
33:Cy:312:LYS:O	33:Cy:316:THR:HG23	2.13	0.49
34:D:93:LYS:HB3	34:D:94:GLU:OE2	2.13	0.49
29:D1:405:ARG:NE	29:D1:409:GLU:O	2.43	0.49
8:DA:206:ASN:ND2	8:DA:224:TYR:OH	2.46	0.49
8:DE:422:ARG:O	8:DE:422:ARG:NH1	2.40	0.49
9:DF:263:LEU:HD22	9:DF:422:TYR:HE1	1.77	0.49
9:DF:406:MET:SD	9:DF:406:MET:N	2.85	0.49
9:DL:172:SER:OG	9:DL:175:VAL:O	2.29	0.49
9:DL:347:ASN:ND2	8:DM:180:ALA:O	2.45	0.49
43:E4:145:ARG:NH1	28:F3:450:HIS:HB3	2.27	0.49
9:EB:311:LEU:H	9:EB:371:SER:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EC:3:GLU:OE1	8:EC:64:ARG:NH1	2.45	0.49
9:EL:173:PRO:HG3	9:EL:380:ARG:HD3	1.94	0.49
29:EP:179:ARG:HH12	29:EP:485:MET:H	1.61	0.49
44:EW:200:GLN:NE2	44:EW:271:GLU:OE1	2.46	0.49
9:FH:39:ASP:OD1	9:FH:43:GLN:NE2	2.45	0.49
8:FM:130:THR:OG1	8:FM:131:GLY:N	2.46	0.49
9:GN:1:MET:HE2	9:GN:2:ARG:HE	1.78	0.49
9:HB:167:PHE:CZ	9:HB:233:MET:HG2	2.47	0.49
8:HC:8:HIS:HA	8:HC:138:PHE:HB2	1.95	0.49
8:HG:206:ASN:OD1	67:HG:502:GTP:N2	2.35	0.49
8:II:103:TYR:CD1	8:II:189:LEU:HB3	2.48	0.49
8:II:414:GLU:OE2	8:II:416:GLY:N	2.34	0.49
8:IK:322:ASP:OD2	8:IK:373:ARG:NH2	2.32	0.49
8:IM:432:TYR:HA	8:IM:435:VAL:HG12	1.95	0.49
9:JB:209:ASP:OD1	9:JB:213:ARG:NH2	2.45	0.49
8:JM:130:THR:OG1	8:JM:131:GLY:N	2.46	0.49
9:KD:311:LEU:HD23	9:KD:342:VAL:HG21	1.94	0.49
9:KD:318:ARG:HD3	9:KD:358:PRO:HD3	1.93	0.49
8:KG:324:VAL:HB	8:KG:327:ASP:OD1	2.12	0.49
9:KJ:406:MET:SD	9:KJ:406:MET:N	2.84	0.49
8:KK:413:MET:HE3	8:KK:417:GLU:HB3	1.93	0.49
8:MK:151:SER:O	8:MK:155:GLU:HG2	2.13	0.49
8:MM:262:TYR:HD2	8:MM:265:ILE:HD12	1.78	0.49
8:NA:251:ASP:H	8:NA:254:GLU:HG3	1.78	0.49
8:NA:317:MET:HE1	8:NA:332:ILE:HD11	1.93	0.49
9:NJ:2:ARG:HG2	9:NJ:129:CYS:SG	2.53	0.49
9:OD:83:GLN:O	9:PD:281:TYR:OH	2.30	0.49
9:OD:330:MET:HA	9:OD:333:VAL:HG12	1.94	0.49
8:OG:269:LEU:HG	8:OG:384:ILE:HD11	1.94	0.49
8:OK:103:TYR:O	8:OK:107:HIS:HB2	2.13	0.49
9:OL:395:LEU:HB3	9:OL:399:THR:HG23	1.94	0.49
67:PD:502:GTP:O5'	8:PE:11:GLN:NE2	2.45	0.49
8:PE:427:ALA:HA	8:PE:430:LYS:HG2	1.94	0.49
9:PF:47:ILE:HG12	9:PF:59:TYR:CD1	2.48	0.49
8:PG:28:HIS:HB2	8:PG:30:ILE:HG12	1.94	0.49
8:PG:238:ILE:HD11	8:PG:378:LEU:HD21	1.93	0.49
8:PG:438:ASP:OD1	8:PG:438:ASP:N	2.40	0.49
8:PI:286:LEU:O	8:PI:373:ARG:NH1	2.42	0.49
9:PL:2:ARG:HH21	9:PL:240:LEU:HA	1.78	0.49
8:QC:151:SER:O	8:QC:155:GLU:HG2	2.13	0.49
9:QF:11:GLN:HA	9:QF:72:THR:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QF:256:ASN:HD22	9:QF:350:LYS:HB2	1.77	0.49
9:QJ:39:ASP:OD1	9:QJ:39:ASP:N	2.46	0.49
9:QL:112:LEU:HD12	9:QL:115:SER:HB2	1.94	0.49
9:RB:21:TRP:HE1	9:RB:63:ALA:HB2	1.76	0.49
8:RC:54:SER:HB3	8:RC:62:VAL:HB	1.95	0.49
8:RC:56:THR:OG1	8:RC:60:LYS:N	2.44	0.49
8:RE:286:LEU:HG	8:RE:373:ARG:HB2	1.94	0.49
9:RH:11:GLN:HG2	9:RH:72:THR:HG21	1.93	0.49
9:RH:306:ARG:NH2	9:RH:340:TYR:OH	2.41	0.49
9:SD:324:LYS:HG2	8:SE:210:TYR:CE2	2.48	0.49
9:SF:117:LEU:HA	9:SF:120:VAL:HG22	1.95	0.49
8:SG:306:ASP:OD1	8:SG:306:ASP:N	2.46	0.49
8:SI:98:ASP:O	8:SI:105:ARG:NH1	2.46	0.49
8:SI:109:THR:HG21	8:SI:411:GLU:HB3	1.94	0.49
9:SJ:372:THR:HA	9:SJ:422:TYR:CE1	2.48	0.49
9:TD:203:ASP:OD2	9:TD:302:ALA:HB2	2.12	0.49
8:TE:238:ILE:HD11	8:TE:378:LEU:HD11	1.95	0.49
8:TG:223:THR:OG1	8:TG:224:TYR:N	2.46	0.49
9:TH:359:ARG:HD3	9:TH:360:GLY:N	2.27	0.49
9:UH:248:ALA:HA	9:UH:252:LYS:HG3	1.95	0.49
8:UI:319:TYR:HB2	8:UI:355:ILE:HD13	1.95	0.49
9:UN:230:SER:HA	9:UN:233:MET:HB2	1.95	0.49
9:VJ:161:ASP:OD1	9:VJ:162:ARG:NH1	2.37	0.49
9:VN:406:MET:SD	9:VN:409:THR:OG1	2.69	0.49
8:WE:214:ARG:NH2	65:t:162:LYS:O	2.46	0.49
9:WL:271:ALA:HB1	9:WL:289:LEU:HD22	1.94	0.49
57:YG:84:ALA:O	57:YG:95:ALA:N	2.46	0.49
60:g:304:GLU:OE2	60:g:306:HIS:N	2.41	0.49
2:0G:127:SER:HB2	2:0G:130:GLU:HB2	1.95	0.49
7:A6:222:SER:O	7:A6:222:SER:OG	2.30	0.49
7:A8:170:GLY:O	9:TJ:213:ARG:NH2	2.46	0.49
8:AG:254:GLU:HG2	9:AH:98:GLY:HA2	1.94	0.49
9:AH:131:GLN:HA	9:AH:162:ARG:HH12	1.78	0.49
9:AL:186:THR:HG23	9:AL:415:MET:HE2	1.94	0.49
12:AV:350:LYS:HZ1	53:Q:91:GLN:HG3	1.77	0.49
15:Ap:23:MET:HG3	8:KK:79:ARG:HG2	1.95	0.49
8:BE:79:ARG:HH12	8:BE:94:THR:HG21	1.77	0.49
9:BF:117:LEU:HD11	9:BF:154:LYS:HB3	1.94	0.49
19:BP:174:ILE:HD11	19:BP:467:GLN:HB2	1.94	0.49
14:Ba:74:PRO:HB3	63:l:67:TYR:HB2	1.95	0.49
14:Ba:296:ASN:O	8:CG:221:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Bo:207:UNK:O	9:PJ:320:ARG:NH1	2.46	0.49
27:Bs:416:ARG:HD2	31:Cl:364:ARG:HG2	1.95	0.49
18:By:206:ASN:HA	18:By:209:GLU:HG2	1.95	0.49
28:C2:354:THR:HB	28:C2:466:LEU:HD13	1.95	0.49
8:CA:335:ILE:HA	8:CA:338:LYS:NZ	2.27	0.49
8:CE:244:PHE:HB2	8:CE:356:ASN:HD21	1.78	0.49
9:CH:57:GLY:N	48:K:114:ARG:HH22	2.11	0.49
9:CL:226:ASN:OD1	69:CL:501:GDP:N1	2.40	0.49
2:CY:73:ILE:HA	2:CY:76:GLU:OE1	2.13	0.49
33:Cr:268:ARG:HG3	33:Cr:272:MET:HE1	1.94	0.49
29:Cz:173:LEU:HG	29:Cz:239:ILE:HD12	1.93	0.49
29:D3:170:ASN:HD21	29:D3:246:ASN:HB3	1.77	0.49
29:D4:177:LYS:HB2	29:D4:239:ILE:HG21	1.94	0.49
29:D5:286:VAL:HG12	29:D5:289:ILE:HD11	1.95	0.49
29:D8:414:SER:OG	29:D9:144:ASN:ND2	2.37	0.49
9:DF:167:PHE:HA	9:DF:200:TYR:HB2	1.94	0.49
29:DV:42:LEU:HG	29:DV:46:ARG:NH2	2.27	0.49
29:DV:471:LYS:O	29:DV:473:MET:N	2.46	0.49
29:DW:49:ASN:O	29:DW:52:ARG:NH1	2.45	0.49
29:EA:423:VAL:HG11	29:EP:287:GLU:HG3	1.95	0.49
9:ED:149:THR:HB	9:ED:192:LEU:HD22	1.95	0.49
8:EG:332:ILE:HD12	8:EG:351:PHE:CE2	2.47	0.49
9:EJ:156:ARG:HH22	9:EJ:197:ASP:CG	2.20	0.49
8:EM:338:LYS:NZ	8:EM:340:THR:OG1	2.41	0.49
44:ES:159:ARG:NH1	44:ES:426:ASP:OD1	2.46	0.49
44:ET:182:LEU:HD21	44:ET:293:LEU:HA	1.95	0.49
44:EV:166:ASP:OD1	44:EV:419:LYS:NZ	2.46	0.49
44:EW:6:ILE:HG23	44:EX:370:ARG:HD2	1.94	0.49
28:F3:203:GLU:OE2	28:F6:93:ARG:NH2	2.46	0.49
9:FB:117:LEU:HA	9:FB:120:VAL:HG12	1.95	0.49
9:FB:130:LEU:HB3	9:FB:162:ARG:NE	2.27	0.49
8:FI:282:TYR:HE1	8:FI:370:LYS:HZ2	1.61	0.49
9:FL:191:GLN:NE2	9:FL:195:ASN:OD1	2.42	0.49
9:GD:211:CYS:HA	9:GD:215:LEU:HB2	1.94	0.49
8:GE:77:GLU:HA	8:GE:80:THR:HG22	1.95	0.49
9:GH:28:HIS:HA	9:GH:43:GLN:HB2	1.95	0.49
9:GH:271:ALA:HB2	9:GH:293:MET:HG2	1.94	0.49
8:GI:26:LEU:HD21	8:GI:364:PRO:HD2	1.95	0.49
8:GI:109:THR:OG1	8:GI:411:GLU:HG2	2.12	0.49
8:GI:227:LEU:HD13	67:GI:501:GTP:HN21	1.77	0.49
9:HB:226:ASN:ND2	69:HB:501:GDP:O6	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HG:199:ASP:OD1	8:HG:256:GLN:NE2	2.43	0.49
9:HJ:54:ALA:HB2	9:HJ:60:VAL:HG23	1.95	0.49
9:HL:130:LEU:O	9:HL:162:ARG:NH2	2.46	0.49
9:IB:16:ILE:HG12	9:IB:226:ASN:HB2	1.94	0.49
9:ID:170:VAL:HG11	9:ID:377:LEU:HD21	1.95	0.49
8:IG:123:ARG:NH2	8:IG:160:ASP:OD2	2.45	0.49
8:IM:3:GLU:N	8:IM:3:GLU:OE2	2.45	0.49
9:IN:285:THR:OG1	9:IN:286:VAL:N	2.46	0.49
9:JB:174:LYS:NZ	9:JB:205:GLU:OE1	2.39	0.49
8:JE:215:ARG:NH2	51:N:142:PRO:O	2.46	0.49
8:JI:216:ASN:HA	1:V:31:GLY:HA3	1.93	0.49
8:KK:180:ALA:HB3	8:KK:183:GLU:HB3	1.95	0.49
9:KL:3:GLU:OE2	9:KL:3:GLU:N	2.36	0.49
9:LB:211:CYS:HA	9:LB:215:LEU:HB2	1.95	0.49
9:MB:404:ASP:OD2	9:MB:405:GLU:N	2.46	0.49
8:MC:54:SER:OG	8:MC:55:GLU:N	2.44	0.49
8:MC:206:ASN:ND2	67:MC:501:GTP:O2'	2.46	0.49
8:MC:335:ILE:HD11	8:MC:351:PHE:HZ	1.75	0.49
8:MG:150:ALA:O	8:MG:154:MET:HG2	2.12	0.49
8:MG:367:ASP:OD1	8:MG:367:ASP:N	2.45	0.49
8:MI:102:ASN:ND2	8:MI:411:GLU:OE1	2.46	0.49
9:ML:91:VAL:HG12	9:ML:112:LEU:HD11	1.94	0.49
8:MM:381:THR:HG22	8:MM:383:ALA:H	1.78	0.49
8:NC:390:ARG:O	8:NC:394:LYS:HG3	2.13	0.49
9:ND:5:VAL:O	9:ND:134:GLN:N	2.46	0.49
9:ND:74:ASP:OD1	9:ND:74:ASP:N	2.44	0.49
8:NE:311:LYS:HG2	8:NE:342:GLN:HG2	1.95	0.49
8:NE:319:TYR:HB3	8:NE:323:VAL:HG21	1.94	0.49
9:NF:7:LEU:HG	9:NF:64:VAL:HB	1.95	0.49
9:NF:248:ALA:HA	9:NF:252:LYS:HD2	1.95	0.49
9:NF:399:THR:HA	9:NF:403:MET:HB3	1.94	0.49
9:NH:91:VAL:HG11	9:NH:116:VAL:HG12	1.95	0.49
9:NJ:54:ALA:HB3	9:NJ:58:LYS:HB3	1.95	0.49
9:NJ:140:GLY:HA3	9:NJ:181:GLU:HG2	1.94	0.49
9:NL:333:VAL:HA	9:NL:336:LYS:HZ3	1.77	0.49
9:O0:1:MET:N	9:O0:3:GLU:OE2	2.42	0.49
9:OD:289:LEU:HD22	9:OD:363:MET:HE3	1.95	0.49
8:OI:288:VAL:HA	8:OI:291:ILE:HG22	1.94	0.49
8:OI:314:ALA:HB3	8:OI:380:ASN:HB3	1.95	0.49
8:PC:438:ASP:OD1	8:PC:438:ASP:N	2.45	0.49
9:PD:46:ARG:NH2	8:PE:76:ASP:OD1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PG:68:VAL:HG12	8:PG:93:ILE:HG12	1.95	0.49
8:PK:90:GLU:HG3	8:PK:121:ARG:HD2	1.94	0.49
8:PM:54:SER:HB2	8:PM:62:VAL:HG23	1.95	0.49
8:PM:392:ASP:HB2	8:PM:422:ARG:HH12	1.78	0.49
8:QG:168:GLU:HB2	8:QG:201:ALA:HA	1.94	0.49
8:QM:298:PRO:HG3	8:QM:307:PRO:HD2	1.95	0.49
9:RB:156:ARG:HH12	9:RB:196:THR:HA	1.78	0.49
9:RD:267:MET:SD	9:RD:371:SER:OG	2.71	0.49
8:RE:26:LEU:HD12	8:RE:363:VAL:HG12	1.93	0.49
9:RH:8:GLN:NE2	9:RH:13:GLY:O	2.46	0.49
9:RJ:23:VAL:HG11	9:RJ:230:SER:HB2	1.94	0.49
8:SC:311:LYS:H	8:SC:382:THR:HG1	1.60	0.49
9:SF:367:PHE:HE1	9:SF:369:GLY:HA3	1.77	0.49
8:TC:194:THR:O	8:TC:198:SER:OG	2.26	0.49
9:TD:139:LEU:HB2	9:TD:171:PRO:HD3	1.95	0.49
9:TF:331:LEU:HD21	8:TG:176:GLN:HB2	1.94	0.49
8:TG:317:MET:HB3	8:TG:319:TYR:HE1	1.78	0.49
8:TI:254:GLU:OE2	9:TJ:99:ASN:ND2	2.46	0.49
9:UD:327:ASP:OD2	8:UE:177:VAL:HG13	2.13	0.49
9:UF:284:LEU:HD23	9:UF:362:LYS:HE3	1.93	0.49
9:UN:101:TRP:NE1	9:UN:145:SER:O	2.46	0.49
9:UN:107:THR:OG1	9:UN:108:GLU:N	2.46	0.49
9:VF:286:VAL:HG21	9:VF:325:GLU:HG3	1.94	0.49
8:VK:181:VAL:HG13	8:VK:182:VAL:HG13	1.94	0.49
9:WB:252:LYS:HG2	8:WC:100:ALA:HA	1.95	0.49
9:WD:74:ASP:HA	9:WD:77:ARG:NH1	2.27	0.49
9:WJ:116:VAL:HG11	9:WJ:151:LEU:HD11	1.94	0.49
8:WK:79:ARG:HG3	8:WK:92:LEU:HD12	1.94	0.49
56:XJ:128:GLY:O	56:XJ:130:ASN:ND2	2.46	0.49
56:XK:77:VAL:HG22	56:XK:133:GLN:OE1	2.13	0.49
56:XK:79:ILE:HD12	56:XK:164:ARG:HB3	1.94	0.49
57:YH:164:VAL:O	57:YH:168:THR:OG1	2.25	0.49
60:f:51:LEU:HD12	60:f:62:PHE:HB3	1.94	0.49
60:g:506:THR:OG1	60:g:526:ASP:OD1	2.31	0.49
62:i:61:ASP:OD1	62:i:61:ASP:N	2.46	0.49
63:k:61:PHE:HB3	63:k:62:LEU:H	1.49	0.49
63:m:117:LEU:O	63:m:121:MET:HG2	2.13	0.49
2:0G:34:ARG:HE	2:0G:135:TYR:HE1	1.61	0.48
7:A4:222:SER:HA	8:RI:298:PRO:HG2	1.93	0.48
7:A7:183:ALA:HB3	8:SC:341:ILE:HG12	1.95	0.48
8:AA:69:ASP:OD1	8:AA:71:GLU:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AD:274:THR:HG21	9:AD:282:ARG:HD2	1.94	0.48
9:AJ:46:ARG:HB2	9:AJ:241:ARG:HA	1.95	0.48
8:AK:136:LEU:HD23	8:AK:167:LEU:HB2	1.95	0.48
8:AK:326:LYS:HD3	9:AL:220:PRO:HG2	1.94	0.48
9:AL:40:SER:OG	9:AL:41:ASP:N	2.44	0.48
13:Aa:121:ARG:HG2	20:BT:267:PHE:CZ	2.48	0.48
13:Aa:489:LYS:HZ2	13:Aa:491:GLU:H	1.60	0.48
15:Ar:154:LEU:HD13	38:Dh:78:ALA:HB3	1.94	0.48
16:At:257:GLY:HA2	8:FI:338:LYS:HD2	1.94	0.48
16:Ax:106:PRO:HG2	8:FE:341:ILE:HD11	1.95	0.48
14:B7:24:TYR:CG	14:B7:25:PRO:HD2	2.47	0.48
9:BL:258:VAL:HB	8:BM:407:TRP:HE1	1.78	0.48
21:Bk:250:ASP:OD1	21:Bk:250:ASP:N	2.46	0.48
25:Bl:139:UNK:O	9:SF:320:ARG:NH2	2.35	0.48
25:Bp:237:UNK:N	9:OL:39:ASP:OD2	2.46	0.48
27:Bs:252:GLN:O	27:Bs:256:ARG:HG3	2.13	0.48
28:C4:275:ARG:NH2	32:Cn:78:ASP:OD2	2.45	0.48
9:CB:363:MET:HE2	9:CB:363:MET:HB3	1.78	0.48
8:CE:251:ASP:N	8:CE:254:GLU:OE2	2.42	0.48
14:CN:238:ARG:NH1	8:FC:279:GLU:OE1	2.46	0.48
2:CT:9:LEU:HD13	2:CT:149:MET:HE2	1.95	0.48
2:CT:84:PHE:CZ	2:CT:149:MET:HE3	2.47	0.48
2:Cc:34:ARG:HE	2:Cc:40:LYS:HA	1.78	0.48
29:D9:254:GLU:OE2	29:EQ:203:LYS:NZ	2.46	0.48
8:DE:134:GLY:HA3	8:DE:165:SER:HB2	1.94	0.48
8:DI:344:VAL:HG11	8:DI:346:TRP:HE3	1.78	0.48
29:DQ:235:LEU:HD21	29:DQ:324:ALA:HA	1.94	0.48
29:DR:366:LYS:HE2	29:DR:366:LYS:HA	1.94	0.48
40:Dm:125:ASP:HB3	8:HI:330:ALA:HB1	1.94	0.48
43:E4:195:ALA:N	28:F3:356:ASP:OD1	2.46	0.48
29:EA:130:LYS:HG3	29:EO:429:THR:HG23	1.95	0.48
9:ED:69:GLU:OE2	9:ED:69:GLU:N	2.46	0.48
9:EF:26:ASP:O	9:EF:359:ARG:NH2	2.42	0.48
44:ES:137:ARG:HD2	44:ES:447:GLN:HB2	1.95	0.48
44:EY:137:ARG:NH1	44:EY:446:TYR:OH	2.46	0.48
28:F2:160:ILE:HG23	28:F2:254:LEU:HD22	1.95	0.48
9:FB:172:SER:HB3	9:FB:205:GLU:HG2	1.95	0.48
9:FH:39:ASP:OD1	9:FH:39:ASP:N	2.44	0.48
9:FL:300:MET:SD	9:FL:300:MET:N	2.86	0.48
9:GB:10:GLY:O	9:GB:14:ASN:ND2	2.45	0.48
8:GE:11:GLN:HE21	8:GE:15:GLN:HE21	1.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GG:229:ARG:HD3	8:GG:363:VAL:HG21	1.95	0.48
9:GH:74:ASP:OD1	9:GH:74:ASP:N	2.45	0.48
9:GJ:211:CYS:HA	9:GJ:215:LEU:HB2	1.93	0.48
9:GL:7:LEU:HB2	9:GL:135:LEU:HD13	1.94	0.48
9:GN:217:LEU:HD13	9:GN:220:PRO:HB3	1.94	0.48
9:HB:379:LYS:HG2	9:HB:419:VAL:HG21	1.95	0.48
8:HC:328:VAL:O	8:HC:332:ILE:HG13	2.13	0.48
8:HE:269:LEU:HD21	8:HE:384:ILE:HD13	1.93	0.48
9:HF:248:ALA:HA	9:HF:252:LYS:HD2	1.94	0.48
9:HF:322:SER:OG	9:HF:323:MET:N	2.46	0.48
9:HJ:309:ARG:NH2	9:HJ:343:GLU:OE1	2.46	0.48
8:IK:68:VAL:HG12	8:IK:93:ILE:HB	1.95	0.48
8:IK:118:VAL:HG21	8:IK:149:PHE:HZ	1.78	0.48
8:IK:188:ILE:HD12	8:IK:425:LEU:HG	1.95	0.48
9:IL:114:ASP:C	51:O:133:ARG:HH22	2.20	0.48
8:JE:200:CYS:HA	8:JE:266:HIS:HB2	1.95	0.48
9:JH:40:SER:OG	9:JH:41:ASP:N	2.46	0.48
9:JN:132:GLY:HA2	9:JN:162:ARG:HB3	1.94	0.48
9:KD:178:THR:HB	9:KD:181:GLU:HB3	1.94	0.48
8:KE:109:THR:OG1	8:KE:110:ILE:N	2.46	0.48
9:KJ:354:CYS:SG	9:KJ:355:ASP:N	2.85	0.48
9:KL:25:SER:OG	9:KL:30:ILE:O	2.31	0.48
8:KO:414:GLU:CD	8:KO:414:GLU:H	2.21	0.48
8:LG:102:ASN:HB3	8:LG:105:ARG:HG3	1.94	0.48
9:LL:196:THR:HG21	9:LL:199:THR:OG1	2.13	0.48
9:MD:150:LEU:O	9:MD:154:LYS:HB2	2.13	0.48
8:MK:315:CYS:HB3	8:MK:377:MET:HE2	1.96	0.48
8:MM:90:GLU:N	8:MM:90:GLU:OE2	2.46	0.48
8:NC:191:THR:HG23	8:NC:425:LEU:HD21	1.94	0.48
8:NK:206:ASN:OD1	67:NK:501:GTP:O2'	2.31	0.48
9:O0:46:ARG:NH2	8:OA:76:ASP:OD2	2.32	0.48
9:OD:389:PHE:HZ	9:OD:405:GLU:HG2	1.77	0.48
9:OF:102:ALA:HB1	9:OF:401:GLU:HG2	1.94	0.48
9:OL:265:PHE:HB3	9:OL:374:ILE:HD13	1.95	0.48
9:PD:122:LYS:HE2	9:QD:291:GLN:CD	2.37	0.48
9:PD:226:ASN:ND2	69:PD:501:GDP:O6	2.44	0.48
8:PE:71:GLU:HG3	8:PE:98:ASP:HB3	1.95	0.48
8:PG:414:GLU:CD	8:PG:416:GLY:H	2.21	0.48
8:PI:260:VAL:HG23	8:PI:265:ILE:O	2.13	0.48
8:PK:317:MET:HE3	8:PK:377:MET:HB2	1.95	0.48
9:QH:4:ILE:HD13	9:QH:50:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QJ:246:LEU:HD11	67:QK:501:GTP:H5"	1.95	0.48
9:QJ:282:ARG:NH1	9:QJ:288:GLU:OE2	2.46	0.48
8:RG:212:ILE:HD11	8:RG:300:ASN:HA	1.95	0.48
9:RH:117:LEU:HB3	9:RH:121:ARG:HH12	1.78	0.48
9:SB:113:VAL:HG22	9:SB:117:LEU:HD23	1.95	0.48
9:SB:202:ILE:HD11	9:SB:207:LEU:HD21	1.94	0.48
8:SC:245:ASP:N	8:SC:245:ASP:OD1	2.45	0.48
8:SE:380:ASN:OD1	8:SE:380:ASN:N	2.46	0.48
9:SF:270:PHE:HD1	9:SF:273:LEU:HG	1.77	0.48
8:SK:150:ALA:O	8:SK:154:MET:HG2	2.13	0.48
8:TM:311:LYS:H	8:TM:382:THR:HG22	1.78	0.48
8:UC:32:PRO:HB3	8:UC:83:TYR:HE1	1.78	0.48
9:UF:260:PHE:HB2	9:UF:263:LEU:HD13	1.95	0.48
9:UH:142:GLY:N	69:UH:501:GDP:O2B	2.46	0.48
8:UI:188:ILE:HD13	8:UI:395:LEU:HD13	1.95	0.48
9:UJ:164:MET:SD	9:UJ:196:THR:HA	2.53	0.48
8:UK:160:ASP:OD2	55:W:167:SER:OG	2.31	0.48
8:VE:9:VAL:HG12	8:VE:68:VAL:HB	1.95	0.48
8:VE:319:TYR:HB3	8:VE:323:VAL:HG11	1.95	0.48
9:VJ:125:GLU:OE2	9:VJ:159:TYR:OH	2.30	0.48
9:VJ:290:THR:HA	9:VJ:293:MET:HG3	1.93	0.48
8:WE:67:PHE:HB2	8:WE:92:LEU:HD22	1.95	0.48
9:WH:122:LYS:HZ1	57:YJ:215:GLN:HB2	1.78	0.48
9:WJ:3:GLU:OE2	9:WJ:127:CYS:HB3	2.13	0.48
9:WJ:311:LEU:HG	9:WJ:312:THR:HG23	1.95	0.48
56:XH:90:GLU:HG3	56:XH:104:ARG:HB2	1.95	0.48
56:XL:35:LYS:HD2	57:YL:205:VAL:HG23	1.94	0.48
63:n:117:LEU:HA	63:n:120:LEU:HD12	1.95	0.48
66:v:392:LYS:O	66:v:396:LEU:HD23	2.13	0.48
2:0G:55:GLU:HG3	2:0G:56:HIS:CD2	2.48	0.48
3:2:82:CYS:SG	3:2:83:ASN:N	2.86	0.48
7:A2:45:LYS:HG3	7:A2:46:LEU:HG	1.95	0.48
9:AB:257:MET:HE3	9:AB:257:MET:HB3	1.75	0.48
9:AJ:404:ASP:OD1	9:AJ:405:GLU:N	2.47	0.48
8:AM:77:GLU:HG2	20:BT:238:THR:HG21	1.95	0.48
10:AR:2:ALA:HB1	8:KO:348:PRO:HA	1.95	0.48
9:BB:28:HIS:HA	9:BB:43:GLN:HB3	1.95	0.48
19:BR:362:HIS:HE1	8:MM:413:MET:N	2.10	0.48
21:BV:160:ARG:HD2	30:CW:400:PRO:HB3	1.94	0.48
18:By:116:VAL:HG13	8:LC:409:VAL:HG11	1.94	0.48
28:C5:218:GLU:HB3	28:C5:343:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:C8:279:ASP:HB3	44:EW:41:LEU:HD13	1.95	0.48
8:CI:98:ASP:OD1	8:CI:99:ALA:N	2.46	0.48
9:CJ:275:SER:OG	9:CJ:276:ARG:N	2.47	0.48
9:CJ:388:MET:HG3	9:CJ:393:ALA:HB3	1.94	0.48
2:Cg:34:ARG:HH11	2:Cg:34:ARG:HG2	1.79	0.48
31:Cl:325:PRO:HD2	8:HE:89:PRO:HB3	1.95	0.48
33:Cu:332:ASP:OD2	33:Cw:67:ARG:HD3	2.13	0.48
33:Cv:289:GLU:OE1	33:Cx:35:SER:OG	2.20	0.48
33:Cy:318:LEU:HD11	33:Cy:338:LEU:HB3	1.93	0.48
9:DL:20:PHE:CG	9:DL:233:MET:HE2	2.48	0.48
29:DP:318:ILE:O	29:DP:322:GLU:HG2	2.13	0.48
29:DS:442:ASP:OD2	44:EY:379:SER:HB2	2.13	0.48
29:DW:128:GLN:OE1	29:DW:321:ARG:NH2	2.46	0.48
9:EB:230:SER:HA	9:EB:233:MET:CG	2.43	0.48
8:EC:318:LEU:HB2	8:EC:376:CYS:HB3	1.94	0.48
8:EE:71:GLU:HB2	8:EE:98:ASP:HB3	1.95	0.48
8:EE:311:LYS:H	8:EE:382:THR:HB	1.78	0.48
9:EF:311:LEU:HG	9:EF:372:THR:HG23	1.95	0.48
8:EG:81:GLY:O	8:EG:84:ARG:NH1	2.46	0.48
9:EH:247:ASN:ND2	8:EI:71:GLU:OE1	2.46	0.48
42:F:493:GLY:HA2	8:IK:286:LEU:H	1.77	0.48
28:F4:182:GLU:HG3	28:F4:237:LEU:HD21	1.93	0.48
8:FC:298:PRO:HA	8:FC:301:GLN:HE22	1.78	0.48
8:FG:142:GLY:HA2	8:FG:183:GLU:HG3	1.95	0.48
8:FI:406:HIS:HA	8:FI:409:VAL:HG22	1.95	0.48
8:GC:336:LYS:NZ	9:GD:175:VAL:HG22	2.27	0.48
8:GG:286:LEU:O	8:GG:373:ARG:NH2	2.42	0.48
9:GH:215:LEU:HB3	9:GH:217:LEU:HG	1.95	0.48
9:GJ:293:MET:HE2	9:GJ:293:MET:HB3	1.56	0.48
8:HE:2:ARG:HB3	8:HE:133:GLN:HE22	1.79	0.48
9:HF:347:ASN:ND2	8:HG:180:ALA:O	2.46	0.48
9:HJ:68:LEU:HD13	9:HJ:108:GLU:HG3	1.95	0.48
8:HO:269:LEU:HD22	8:HO:303:VAL:HG21	1.95	0.48
9:IB:147:MET:HE1	9:IB:151:LEU:HD22	1.95	0.48
8:II:328:VAL:O	8:II:332:ILE:HD12	2.12	0.48
8:IM:241:SER:OG	8:IM:250:VAL:O	2.21	0.48
9:JF:187:LEU:HD21	9:JF:403:MET:HE1	1.94	0.48
9:JL:322:SER:OG	9:JL:325:GLU:OE2	2.23	0.48
9:JL:336:LYS:NZ	51:O:16:ILE:HG13	2.27	0.48
9:JN:180:VAL:O	9:JN:184:ASN:ND2	2.46	0.48
8:KI:191:THR:HG21	8:KI:425:LEU:HD13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KJ:207:LEU:HB3	9:KJ:225:LEU:HD22	1.95	0.48
9:KN:289:LEU:O	9:KN:293:MET:HB2	2.13	0.48
9:LF:331:LEU:HD22	8:LG:177:VAL:HG12	1.95	0.48
9:LL:11:GLN:NE2	69:LL:501:GDP:O2A	2.45	0.48
9:LL:30:ILE:HD11	9:LL:47:ILE:HD11	1.94	0.48
9:LL:116:VAL:HG11	9:LL:151:LEU:HD11	1.93	0.48
9:LL:152:ILE:HG12	9:LL:164:MET:HE2	1.95	0.48
8:LM:93:ILE:HD11	8:LM:117:LEU:HD22	1.95	0.48
9:ML:174:LYS:HZ2	61:h:19:LEU:HD12	1.78	0.48
9:O0:213:ARG:O	9:O0:216:LYS:NZ	2.45	0.48
9:OF:139:LEU:HD22	9:OF:170:VAL:HG12	1.95	0.48
9:OF:215:LEU:HD21	9:OF:273:LEU:HD22	1.95	0.48
52:P:37:TRP:CD1	9:TF:83:GLN:HE22	2.31	0.48
8:PC:56:THR:HB	8:PC:60:LYS:H	1.78	0.48
8:PE:263:PRO:HD3	9:PF:396:HIS:CD2	2.48	0.48
8:PM:9:VAL:HA	8:PM:68:VAL:HG23	1.95	0.48
9:QB:54:ALA:HB3	9:QB:58:LYS:HB3	1.95	0.48
8:QC:395:LEU:HD11	8:QC:422:ARG:HH21	1.78	0.48
9:QH:219:THR:O	9:QH:219:THR:OG1	2.23	0.48
9:QJ:267:MET:HE1	9:QJ:299:MET:SD	2.52	0.48
9:QL:321:MET:SD	9:QL:321:MET:N	2.86	0.48
8:RE:386:GLU:O	8:RE:390:ARG:HG3	2.13	0.48
8:RG:5:ILE:HG23	8:RG:125:LEU:HD23	1.95	0.48
8:RG:11:GLN:HG2	8:RG:74:VAL:HG21	1.95	0.48
9:SD:164:MET:O	9:SD:196:THR:OG1	2.30	0.48
8:SG:292:THR:OG1	8:SG:319:TYR:OH	2.31	0.48
8:SK:115:VAL:HG21	8:SK:152:LEU:HD22	1.94	0.48
9:SL:321:MET:HB2	8:SM:221:ARG:NH2	2.27	0.48
8:TC:22:GLU:OE2	8:TC:83:TYR:OH	2.29	0.48
8:TC:234:ILE:HD11	8:TC:272:TYR:HB2	1.95	0.48
9:TD:252:LYS:HA	9:TD:255:VAL:HG12	1.94	0.48
9:UF:113:VAL:HA	9:UF:116:VAL:HG12	1.94	0.48
8:UG:297:GLU:CD	8:UG:299:ALA:H	2.20	0.48
9:UN:219:THR:O	9:UN:219:THR:OG1	2.25	0.48
8:VC:396:ASP:OD1	8:VC:422:ARG:NE	2.46	0.48
9:VF:9:ALA:HB1	9:VF:144:GLY:HA2	1.95	0.48
8:VI:261:PRO:HB2	8:VI:262:TYR:CD1	2.48	0.48
9:VN:313:VAL:HB	9:VN:349:VAL:HG22	1.96	0.48
8:WC:88:HIS:ND1	8:WC:89:PRO:HD2	2.29	0.48
47:Y:253:ASP:OD1	47:Y:253:ASP:N	2.44	0.48
62:i:42:ARG:HA	62:i:45:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0C:39:ASP:OD1	2:0C:39:ASP:N	2.45	0.48
2:0G:21:GLN:NE2	25:Bp:206:UNK:O	2.45	0.48
2:0Y:115:ARG:HH21	2:0Y:132:ARG:HA	1.78	0.48
2:0Y:115:ARG:NH2	2:0Y:132:ARG:HA	2.28	0.48
2:0a:103:THR:O	2:0a:109:ASN:ND2	2.46	0.48
6:A0:175:ASN:O	8:HE:96:LYS:NZ	2.46	0.48
8:AG:35:GLN:OE1	8:BG:282:TYR:OH	2.31	0.48
9:AH:283:ALA:HB2	9:KJ:54:ALA:HA	1.94	0.48
9:AL:317:PHE:HD2	9:AL:321:MET:HE2	1.78	0.48
13:Aa:356:ILE:HD12	13:Aa:356:ILE:H	1.78	0.48
13:Ac:71:LEU:HD21	13:Ac:149:ARG:HD3	1.95	0.48
7:Av:164:LYS:HA	9:OJ:306:ARG:HH21	1.77	0.48
7:Ay:194:LYS:O	8:FC:96:LYS:NZ	2.41	0.48
5:B:121:VAL:HG13	5:B:123:GLU:H	1.78	0.48
17:B3:211:TYR:OH	44:EV:284:CYS:SG	2.69	0.48
8:BE:3:GLU:HA	8:BE:51:THR:HA	1.94	0.48
8:BE:286:LEU:HD13	8:BE:371:VAL:HG12	1.94	0.48
9:BL:219:THR:O	9:BL:219:THR:OG1	2.27	0.48
19:BR:249:ASN:HB3	19:BR:251:PRO:HD3	1.95	0.48
19:BR:370:GLU:O	19:BR:373:ILE:HG22	2.13	0.48
28:C2:459:LEU:HD23	32:Cn:392:PRO:HB3	1.95	0.48
8:CG:3:GLU:HA	8:CG:51:THR:HA	1.95	0.48
9:CJ:394:PHE:HB3	9:CJ:397:TRP:CZ2	2.49	0.48
9:CL:237:THR:HG22	9:CL:250:LEU:HD21	1.94	0.48
2:CX:128:CYS:O	2:CX:132:ARG:NH2	2.46	0.48
31:Cl:297:TRP:NE1	42:E:856:GLU:OE1	2.39	0.48
32:Cm:303:ILE:HD13	32:Cm:352:LYS:HD3	1.95	0.48
33:Cs:167:GLU:OE2	33:Cs:171:ARG:NH2	2.47	0.48
33:Ct:120:ARG:O	33:Ct:123:ARG:NE	2.45	0.48
29:D1:376:ASN:HA	29:DR:308:ARG:HH12	1.77	0.48
29:D5:385:ILE:HG21	29:D5:434:LYS:HE3	1.94	0.48
9:DB:73:MET:HA	9:DB:73:MET:HE3	1.94	0.48
9:DB:252:LYS:NZ	8:DC:101:ASN:HB2	2.27	0.48
8:DC:133:GLN:HB2	8:DC:252:LEU:HD12	1.93	0.48
9:DH:232:THR:HG21	9:DH:300:MET:HE1	1.94	0.48
8:DI:15:GLN:HB3	8:DI:228:ASN:HD21	1.78	0.48
9:DL:309:ARG:H	9:DL:372:THR:HG22	1.78	0.48
8:DM:52:PHE:CE1	8:DM:243:ARG:HD3	2.46	0.48
28:DO:85:SER:HB3	44:EV:46:PHE:HB3	1.94	0.48
29:DR:357:LYS:HZ1	29:DR:462:ALA:HA	1.78	0.48
29:DW:162:GLU:HG3	29:DW:307:ILE:HG23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:E3:94:TRP:NE1	28:F4:152:ASP:OD1	2.45	0.48
9:EH:232:THR:HG22	9:EH:270:PHE:HB2	1.95	0.48
8:EK:170:ALA:H	8:EK:202:PHE:HB3	1.78	0.48
9:EL:95:SER:OG	9:EL:108:GLU:OE2	2.29	0.48
29:EQ:355:ASP:O	29:EQ:359:LYS:HG3	2.13	0.48
28:F3:116:ASN:HD22	28:F3:119:ARG:HH12	1.59	0.48
9:FF:46:ARG:HG2	9:FF:49:VAL:HG23	1.94	0.48
8:FG:220:GLU:OE1	8:FG:221:ARG:N	2.47	0.48
8:FI:4:CYS:HB3	8:FI:52:PHE:HE1	1.78	0.48
8:FK:406:HIS:HA	8:FK:409:VAL:HG22	1.94	0.48
9:FL:73:MET:HE2	9:FL:73:MET:HB3	1.80	0.48
45:G:545:THR:HG22	9:GL:36:TYR:HE2	1.78	0.48
8:GG:26:LEU:HD22	8:GG:363:VAL:HG12	1.96	0.48
9:HD:120:VAL:HG11	9:HD:155:ILE:HD11	1.94	0.48
9:HJ:215:LEU:HB3	9:HJ:217:LEU:HD12	1.94	0.48
9:HN:189:VAL:HA	9:HN:192:LEU:HB2	1.95	0.48
9:ID:131:GLN:NE2	9:ID:250:LEU:HB2	2.28	0.48
9:ID:178:THR:HB	9:ID:181:GLU:HB3	1.95	0.48
8:IK:171:ILE:HG21	67:IK:501:GTP:H1'	1.95	0.48
8:IM:261:PRO:HB2	8:IM:262:TYR:HD1	1.78	0.48
8:IO:71:GLU:HB3	8:IO:98:ASP:HB3	1.95	0.48
9:JB:385:PHE:HZ	9:JB:408:PHE:HB3	1.77	0.48
8:JE:241:SER:OG	8:JE:250:VAL:O	2.26	0.48
8:JE:317:MET:HG2	8:JE:377:MET:HG3	1.95	0.48
9:JF:121:ARG:HH21	9:JF:158:GLU:CD	2.21	0.48
8:JG:322:ASP:OD2	8:JG:373:ARG:NH1	2.46	0.48
9:JJ:330:MET:HE2	9:JJ:349:VAL:HG11	1.95	0.48
8:JK:56:THR:HA	8:MK:285:GLN:HB3	1.95	0.48
49:K1:40:ASN:HB3	49:K1:43:ARG:HG2	1.95	0.48
8:KE:183:GLU:HG2	8:KE:184:PRO:HD3	1.94	0.48
8:LC:118:VAL:HG11	8:LC:153:LEU:HD11	1.94	0.48
9:LD:100:ASN:ND2	9:LD:401:GLU:OE1	2.46	0.48
9:LH:48:ASN:O	9:LH:62:ARG:NH2	2.46	0.48
9:LL:278:SER:HA	9:LL:281:TYR:HD2	1.78	0.48
9:MB:204:ASN:ND2	69:MB:501:GDP:N3	2.53	0.48
9:MD:32:PRO:HG2	62:i:225:ASN:HB2	1.94	0.48
9:MF:8:GLN:HG3	9:MF:65:LEU:HG	1.95	0.48
8:MI:191:THR:HA	8:MI:194:THR:HG22	1.95	0.48
9:MN:161:ASP:OD1	9:MN:161:ASP:N	2.35	0.48
9:MN:289:LEU:HD12	9:MN:363:MET:HE2	1.94	0.48
9:NB:74:ASP:OD1	9:NB:74:ASP:N	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NB:364:SER:OG	9:NB:365:ALA:N	2.46	0.48
8:NC:306:ASP:OD1	8:NC:306:ASP:N	2.39	0.48
9:ND:215:LEU:HD11	9:ND:273:LEU:HD22	1.95	0.48
8:NE:88:HIS:HB2	8:OE:283:HIS:CE1	2.48	0.48
9:NL:133:PHE:HD1	9:NL:164:MET:HE1	1.78	0.48
9:OH:25:SER:OG	9:OH:30:ILE:O	2.29	0.48
9:OL:170:VAL:HG11	9:OL:377:LEU:HD11	1.95	0.48
9:PH:49:VAL:O	9:PH:62:ARG:NH2	2.47	0.48
8:PI:238:ILE:HD11	8:PI:378:LEU:HD21	1.94	0.48
8:QA:171:ILE:HA	8:QA:204:VAL:HB	1.94	0.48
8:QC:290:GLU:HA	8:QC:293:ASN:HD21	1.78	0.48
9:QJ:16:ILE:HA	9:QJ:226:ASN:HD21	1.77	0.48
9:QL:205:GLU:OE2	9:QL:205:GLU:N	2.35	0.48
8:QM:227:LEU:O	8:QM:231:ILE:HD12	2.12	0.48
9:RF:194:GLU:OE1	9:RF:262:ARG:NH2	2.46	0.48
8:RG:142:GLY:HA2	8:RG:183:GLU:HG2	1.95	0.48
9:SF:331:LEU:O	9:SF:335:ASN:ND2	2.46	0.48
9:SH:272:PRO:HG3	9:SH:364:SER:HA	1.96	0.48
8:SI:24:TYR:HE2	8:SI:52:PHE:CE2	2.31	0.48
9:SJ:176:SER:OG	9:SJ:181:GLU:OE1	2.24	0.48
8:SK:55:GLU:OE1	8:SK:61:HIS:NE2	2.43	0.48
8:SM:317:MET:HB2	8:SM:353:VAL:HG13	1.96	0.48
8:TI:107:HIS:HD2	8:TI:152:LEU:HB2	1.78	0.48
8:TI:337:THR:O	8:TI:339:ARG:NH1	2.46	0.48
9:TJ:161:ASP:OD1	9:TJ:162:ARG:NH2	2.45	0.48
9:UD:87:PRO:HA	9:UD:90:PHE:HD2	1.77	0.48
9:UN:3:GLU:HG3	9:UN:127:CYS:HB2	1.94	0.48
8:VG:211:ASP:O	8:VG:215:ARG:HG2	2.13	0.48
9:VH:132:GLY:HA2	9:VH:162:ARG:HB3	1.95	0.48
9:VJ:129:CYS:SG	9:VJ:130:LEU:N	2.86	0.48
8:VM:262:TYR:OH	9:VN:391:ARG:O	2.31	0.48
9:VN:289:LEU:HD11	9:VN:363:MET:HB3	1.96	0.48
55:W:161:LYS:NZ	55:W:162:GLN:O	2.42	0.48
8:WG:245:ASP:OD2	60:f:206:GLN:NE2	2.46	0.48
9:WL:219:THR:HG21	60:g:159:LEU:HD13	1.95	0.48
56:XH:57:THR:HG23	56:XH:158:ALA:HB2	1.94	0.48
57:YI:48:MET:HB2	57:YI:51:SER:HB3	1.94	0.48
59:c:249:ARG:HD2	59:c:252:ARG:HH22	1.77	0.48
60:g:551:VAL:HA	60:g:567:GLY:HA2	1.94	0.48
62:j:79:GLU:HA	62:j:85:PHE:HE2	1.77	0.48
66:w:290:ALA:HB1	66:w:344:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A1:201:THR:HG21	9:OB:121:ARG:HD2	1.96	0.48
7:A7:116:PHE:HB3	8:SG:214:ARG:HH22	1.79	0.48
7:A8:104:GLY:HA3	8:TM:340:THR:HG21	1.94	0.48
9:AF:404:ASP:OD1	9:AF:405:GLU:N	2.46	0.48
8:AI:143:GLY:O	8:AI:147:SER:OG	2.27	0.48
9:AL:19:LYS:HA	9:AL:22:GLU:HB2	1.96	0.48
10:AR:85:THR:HG22	54:T:250:ALA:HB2	1.96	0.48
16:At:258:PRO:HB3	8:EI:123:ARG:HH22	1.78	0.48
7:Av:205:ARG:HA	9:OH:297:LYS:NZ	2.29	0.48
18:B6:204:LYS:HD2	50:L2:56:TYR:HB3	1.96	0.48
9:BB:249:ASP:H	9:BB:252:LYS:HD3	1.78	0.48
9:BB:378:PHE:HA	9:BB:381:ILE:HG22	1.94	0.48
8:BE:274:PRO:HG3	8:BE:374:ALA:HA	1.95	0.48
9:BF:134:GLN:HA	9:BF:165:ASN:HB2	1.95	0.48
8:BI:138:PHE:HZ	8:BI:235:VAL:HG21	1.77	0.48
20:BT:6:PRO:HG3	65:r:89:ASN:HD21	1.77	0.48
20:BT:126:LYS:HA	20:BT:126:LYS:HE2	1.95	0.48
14:BZ:222:TYR:HB3	14:BZ:237:TYR:OH	2.14	0.48
27:Bs:225:GLU:OE2	45:G:252:THR:OG1	2.30	0.48
28:C9:354:THR:HG23	28:C9:466:LEU:HD13	1.94	0.48
9:CD:327:ASP:OD1	9:CD:327:ASP:N	2.45	0.48
9:CF:165:ASN:ND2	9:CF:198:GLU:OE2	2.46	0.48
33:Cu:204:ASN:O	33:Cu:207:ARG:NH1	2.42	0.48
33:Cv:2:ALA:HB2	33:Cw:110:LEU:HD11	1.95	0.48
29:D1:120:THR:O	29:D1:123:SER:OG	2.30	0.48
9:DD:247:ASN:OD1	9:DD:247:ASN:N	2.45	0.48
9:DF:330:MET:HG2	9:DF:349:VAL:HG11	1.95	0.48
9:DF:330:MET:SD	9:DF:351:THR:OG1	2.72	0.48
8:DI:212:ILE:O	8:DI:216:ASN:HB2	2.13	0.48
9:DJ:3:GLU:O	9:DJ:131:GLN:N	2.42	0.48
9:DJ:312:THR:HA	9:DJ:348:ASN:HB2	1.94	0.48
9:DL:314:ALA:HB3	9:DL:368:ILE:HB	1.95	0.48
29:DU:174:ASP:O	29:DU:178:ARG:HG2	2.13	0.48
37:De:214:SER:HB2	37:De:217:LYS:HE2	1.95	0.48
9:EB:221:THR:OG1	9:EB:222:TYR:N	2.45	0.48
8:EC:36:MET:HE2	8:EC:61:HIS:NE2	2.28	0.48
9:ED:121:ARG:NH1	9:ED:158:GLU:OE1	2.45	0.48
8:EM:120:ASP:O	8:EM:124:LYS:HG2	2.13	0.48
44:ET:54:ASP:OD1	44:ET:54:ASP:N	2.46	0.48
28:F3:415:MET:HA	28:F3:418:LEU:HG	1.95	0.48
8:FC:371:VAL:HG12	8:FC:373:ARG:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FG:206:ASN:HB3	67:FG:501:GTP:C6	2.48	0.48
9:FH:197:ASP:OD1	9:FH:197:ASP:N	2.46	0.48
9:FJ:30:ILE:HG13	9:FJ:51:TYR:HE2	1.79	0.48
9:FJ:267:MET:HE1	9:FJ:303:CYS:SG	2.53	0.48
8:FM:399:TYR:O	8:FM:402:ARG:NH1	2.46	0.48
9:FN:417:ASP:O	9:FN:421:GLU:HG3	2.13	0.48
8:GC:395:LEU:HD23	8:GC:422:ARG:HD3	1.95	0.48
8:GG:68:VAL:HG11	8:GG:118:VAL:HG21	1.95	0.48
8:GI:142:GLY:HA2	8:GI:183:GLU:HG2	1.95	0.48
9:GL:275:SER:OG	9:GL:276:ARG:N	2.46	0.48
9:HD:145:SER:OG	9:HD:184:ASN:O	2.31	0.48
9:HF:91:VAL:HG12	64:ke:17:ARG:HD2	1.95	0.48
9:HJ:249:ASP:OD1	9:HJ:251:ARG:N	2.44	0.48
8:HK:81:GLY:O	8:HK:84:ARG:NH1	2.46	0.48
9:HL:19:LYS:NZ	9:HL:223:GLY:O	2.46	0.48
47:I:364:LEU:O	47:I:366:ARG:NH1	2.46	0.48
8:IC:147:SER:HB2	8:IC:190:THR:HG21	1.95	0.48
9:IF:103:LYS:HA	9:IF:107:THR:HG22	1.96	0.48
9:IH:189:VAL:HA	9:IH:192:LEU:HB2	1.95	0.48
9:IJ:65:LEU:HB3	9:IJ:73:MET:HE1	1.93	0.48
9:JD:1:MET:HE1	9:JD:129:CYS:HB3	1.94	0.48
8:JI:88:HIS:CE1	8:JI:90:GLU:HG3	2.49	0.48
8:KC:262:TYR:OH	9:KD:391:ARG:O	2.28	0.48
9:KF:207:LEU:HB3	9:KF:225:LEU:HD22	1.94	0.48
8:KO:188:ILE:HD12	8:KO:395:LEU:HD13	1.96	0.48
9:LL:139:LEU:HD13	9:LL:168:SER:HB2	1.95	0.48
9:MH:416:ASN:HA	9:MH:419:VAL:HG12	1.94	0.48
9:NB:100:ASN:HD22	9:NB:103:LYS:HG3	1.78	0.48
8:NE:123:ARG:HH21	8:NE:124:LYS:HG3	1.78	0.48
8:OE:70:LEU:HA	8:OE:95:GLY:HA3	1.95	0.48
9:OL:112:LEU:HB2	9:OL:147:MET:HE1	1.95	0.48
9:PB:178:THR:HB	9:PB:181:GLU:HG2	1.94	0.48
8:PG:385:ALA:HA	8:PG:388:TRP:HD1	1.77	0.48
9:PH:237:THR:HG22	9:PH:250:LEU:HD21	1.95	0.48
9:PJ:303:CYS:SG	9:PJ:304:ASP:N	2.86	0.48
9:PJ:314:ALA:HB3	9:PJ:368:ILE:HB	1.95	0.48
8:PK:438:ASP:OD1	8:PK:438:ASP:N	2.47	0.48
9:PL:322:SER:OG	9:PL:325:GLU:OE2	2.31	0.48
8:QC:54:SER:OG	8:QC:55:GLU:N	2.45	0.48
8:QC:88:HIS:NE2	8:QC:91:GLN:HG3	2.28	0.48
8:QG:392:ASP:O	8:QG:396:ASP:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QH:198:GLU:HB2	9:QH:266:PHE:CZ	2.49	0.48
8:QK:242:LEU:HD21	8:QK:252:LEU:HG	1.95	0.48
9:RB:215:LEU:HB3	9:RB:217:LEU:HD13	1.95	0.48
9:RH:139:LEU:HA	9:RH:145:SER:HB3	1.96	0.48
8:RI:60:LYS:HZ1	8:SI:282:TYR:HD1	1.60	0.48
8:RI:274:PRO:HG3	8:RI:374:ALA:HA	1.95	0.48
9:RL:2:ARG:NH2	9:RL:240:LEU:O	2.46	0.48
8:RM:402:ARG:HH21	8:RM:415:GLU:CG	2.25	0.48
54:S:231:MET:HE2	54:S:231:MET:HA	1.96	0.48
9:SF:275:SER:O	9:SF:279:GLN:N	2.45	0.48
8:SG:195:LEU:HD11	8:SG:428:LEU:HD22	1.94	0.48
9:SL:50:TYR:OH	9:SL:134:GLN:OE1	2.26	0.48
9:TB:137:HIS:ND1	9:TB:144:GLY:O	2.47	0.48
9:TD:171:PRO:HG2	9:TD:185:ALA:HB2	1.95	0.48
9:TJ:10:GLY:HA2	9:TJ:143:THR:HG23	1.95	0.48
9:TJ:100:ASN:HB2	9:TJ:103:LYS:HG2	1.96	0.48
8:TK:417:GLU:HA	8:TK:420:GLU:HB3	1.94	0.48
8:TM:137:ILE:HG13	8:TM:154:MET:HE1	1.96	0.48
8:UI:345:ASP:OD1	8:UI:345:ASP:N	2.45	0.48
9:UL:102:ALA:HB1	9:UL:403:MET:HE3	1.96	0.48
8:VE:206:ASN:HD22	8:VE:227:LEU:HD11	1.77	0.48
9:VF:330:MET:HB3	9:VF:349:VAL:HG11	1.95	0.48
8:VG:223:THR:OG1	8:VG:224:TYR:N	2.46	0.48
9:VJ:362:LYS:NZ	59:b:341:PHE:HB2	2.27	0.48
9:WD:325:GLU:OE2	8:WE:221:ARG:NH1	2.44	0.48
9:WD:342:VAL:HG23	9:WD:345:ILE:HG22	1.95	0.48
8:WE:90:GLU:OE2	56:XL:4:ASN:ND2	2.47	0.48
8:WE:144:GLY:N	67:WE:501:GTP:O3B	2.43	0.48
8:WE:212:ILE:HD11	8:WE:300:ASN:HA	1.96	0.48
9:WF:139:LEU:HA	9:WF:145:SER:HB2	1.94	0.48
8:WM:132:LEU:HB3	8:WM:164:LYS:HE3	1.96	0.48
9:WN:170:VAL:HG11	9:WN:377:LEU:HD11	1.95	0.48
56:XI:66:LYS:HD3	56:XI:66:LYS:HA	1.57	0.48
56:XJ:112:THR:HG22	56:XJ:122:PRO:HD3	1.95	0.48
47:Y:50:ASP:OD1	47:Y:50:ASP:N	2.44	0.48
57:YH:76:TYR:CE2	57:YH:123:TYR:HE1	2.31	0.48
57:YL:157:LEU:HB3	57:YL:196:ILE:HG21	1.94	0.48
59:d:520:LEU:HD21	59:d:537:GLU:OE1	2.14	0.48
60:e:480:VAL:HG22	60:e:490:ILE:HG22	1.96	0.48
8:AA:203:MET:HB3	8:AA:303:VAL:HG21	1.95	0.48
8:AK:84:ARG:HB2	14:Bc:219:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:295:CYS:O	8:AK:301:GLN:NE2	2.47	0.48
8:AM:306:ASP:OD1	8:AM:308:ARG:NE	2.43	0.48
11:AT:117:GLN:HA	42:F:397:LYS:NZ	2.27	0.48
13:Ac:235:LEU:HB3	13:Ac:248:ILE:HD11	1.95	0.48
16:Ax:145:TYR:CE1	8:EC:123:ARG:HD3	2.47	0.48
9:BF:58:LYS:HZ3	9:BF:58:LYS:HB2	1.78	0.48
24:Bh:63:SER:O	24:Bh:63:SER:OG	2.27	0.48
28:C3:232:ARG:HH11	28:C3:328:VAL:HG22	1.79	0.48
8:CC:324:VAL:HG13	8:CC:327:ASP:HB2	1.94	0.48
8:CE:205:ASP:HB3	8:CE:303:VAL:HA	1.96	0.48
9:CJ:136:THR:HG22	9:CJ:167:PHE:HB2	1.96	0.48
9:CJ:245:GLN:NE2	9:CJ:323:MET:SD	2.87	0.48
9:CJ:256:ASN:OD1	8:CK:181:VAL:N	2.42	0.48
17:CS:36:ALA:HB1	8:MM:299:ALA:HB2	1.94	0.48
2:Cf:100:LYS:HD2	2:Cf:148:LEU:HD21	1.95	0.48
2:Ck:125:HIS:O	8:SE:84:ARG:NH2	2.37	0.48
32:Cm:44:LEU:HD11	32:Cn:350:ARG:HE	1.79	0.48
32:Cn:6:GLN:N	32:Cn:6:GLN:OE1	2.46	0.48
33:Cr:416:ASN:ND2	44:ES:70:ASP:OD1	2.47	0.48
33:Cv:262:GLU:HB3	33:Cv:266:ARG:HH21	1.79	0.48
29:D2:413:ASP:OD1	29:D2:413:ASP:N	2.44	0.48
8:DG:9:VAL:HA	8:DG:68:VAL:HG23	1.96	0.48
8:DI:289:ALA:HA	8:DI:292:THR:HG22	1.94	0.48
9:DJ:151:LEU:O	9:DJ:155:ILE:HG12	2.13	0.48
29:DV:130:LYS:HZ1	29:DV:134:THR:HB	1.77	0.48
29:DW:239:ILE:HD13	29:DW:320:LEU:HD23	1.96	0.48
9:EB:245:GLN:HE21	9:EB:353:VAL:HG11	1.78	0.48
9:EF:164:MET:HE2	9:EF:166:THR:HG22	1.96	0.48
9:EN:143:THR:N	69:EN:501:GDP:O2B	2.46	0.48
35:Ee:196:LEU:HG	9:LH:213:ARG:HG2	1.96	0.48
28:F4:124:THR:HG21	28:F5:378:THR:HG23	1.96	0.48
9:FF:344:TRP:CG	8:FG:401:LYS:HD3	2.48	0.48
8:FG:254:GLU:OE1	9:FH:99:ASN:ND2	2.47	0.48
9:FH:273:LEU:O	9:FH:292:GLN:NE2	2.41	0.48
8:FI:56:THR:HA	8:GI:285:GLN:HE22	1.77	0.48
8:GC:282:TYR:HB3	8:GC:283:HIS:CD2	2.49	0.48
8:GC:399:TYR:O	8:GC:402:ARG:NH2	2.47	0.48
9:GH:170:VAL:N	9:GH:202:ILE:O	2.42	0.48
8:GI:313:MET:HE1	8:GI:435:VAL:HG21	1.95	0.48
9:GJ:44:LEU:HD12	9:GJ:47:ILE:HG13	1.94	0.48
9:GL:53:GLU:OE2	9:GL:57:GLY:HA2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:141:PHE:CE2	8:HC:170:ALA:HB1	2.47	0.48
9:HD:260:PHE:HE2	9:HD:425:TYR:CD2	2.31	0.48
9:HJ:252:LYS:HG3	8:HK:100:ALA:HA	1.96	0.48
9:HL:269:GLY:N	9:HL:367:PHE:O	2.45	0.48
8:HO:286:LEU:HD13	8:HO:371:VAL:HG13	1.94	0.48
47:I:263:ILE:HB	47:I:276:ARG:HB3	1.94	0.48
8:IG:242:LEU:HD11	8:IG:252:LEU:HG	1.96	0.48
9:IH:100:ASN:HB3	9:IH:103:LYS:HB2	1.96	0.48
8:II:342:GLN:NE2	8:II:343:PHE:O	2.46	0.48
9:JN:407:GLU:HA	9:JN:410:GLU:HG3	1.95	0.48
9:KB:327:ASP:OD2	9:KB:327:ASP:N	2.43	0.48
9:KN:69:GLU:HG3	9:KN:71:GLY:H	1.79	0.48
48:L:115:ALA:O	48:L:117:VAL:N	2.44	0.48
8:LC:317:MET:HE3	8:LC:377:MET:HB2	1.95	0.48
9:LH:343:GLU:N	9:LH:343:GLU:OE1	2.47	0.48
9:LN:207:LEU:HD13	9:LN:225:LEU:HB3	1.95	0.48
9:LN:213:ARG:NH2	9:LN:297:LYS:HD2	2.29	0.48
9:MH:178:THR:HB	9:MH:181:GLU:HB3	1.95	0.48
9:NB:100:ASN:HB3	9:NB:103:LYS:HG3	1.93	0.48
8:NG:362:VAL:HG12	8:NG:368:LEU:HB3	1.95	0.48
9:NJ:17:GLY:HA2	9:NJ:20:PHE:HB3	1.95	0.48
67:O0:502:GTP:O2B	8:OA:144:GLY:N	2.44	0.48
9:OD:150:LEU:O	9:OD:154:LYS:HG2	2.13	0.48
8:PA:12:ALA:O	8:PA:16:ILE:HD12	2.13	0.48
9:PB:128:ASP:OD1	9:PB:128:ASP:N	2.40	0.48
8:PC:108:TYR:HA	8:PC:112:LYS:HE3	1.95	0.48
9:PD:189:VAL:HG21	9:PD:378:PHE:CZ	2.48	0.48
9:PD:257:MET:HB3	9:PD:266:PHE:HZ	1.78	0.48
8:PG:252:LEU:HA	8:PG:255:PHE:CD2	2.48	0.48
8:PI:254:GLU:OE2	8:PI:352:LYS:NZ	2.46	0.48
8:PK:186:ASN:O	8:PK:190:THR:OG1	2.24	0.48
8:QA:367:ASP:OD1	8:QA:367:ASP:N	2.35	0.48
9:QB:138:SER:HA	9:QB:169:VAL:HB	1.94	0.48
8:QC:259:LEU:HD11	8:QC:378:LEU:HB3	1.96	0.48
8:QE:298:PRO:HB3	8:QE:307:PRO:HD2	1.94	0.48
8:QE:381:THR:HG22	8:QE:383:ALA:H	1.79	0.48
8:QG:140:SER:HA	8:QG:171:ILE:HB	1.96	0.48
8:QG:317:MET:HE3	8:QG:351:PHE:HE1	1.79	0.48
8:QK:216:ASN:HD21	8:QK:275:VAL:HG23	1.78	0.48
8:RA:138:PHE:HZ	8:RA:235:VAL:HG21	1.78	0.48
8:RE:349:THR:OG1	8:RE:350:GLY:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SG:122:ILE:HD13	8:SG:157:LEU:HD21	1.95	0.48
8:SI:50:ASN:O	8:SI:64:ARG:NH1	2.41	0.48
9:SJ:270:PHE:HD1	9:SJ:273:LEU:HG	1.78	0.48
8:SM:88:HIS:HD2	8:SM:89:PRO:HD2	1.78	0.48
9:TF:211:CYS:HA	9:TF:215:LEU:HD12	1.95	0.48
9:TL:324:LYS:HB3	9:TL:324:LYS:HE2	1.62	0.48
8:UE:70:LEU:HA	8:UE:95:GLY:HA3	1.96	0.48
8:VI:362:VAL:HG11	8:VI:370:LYS:HB2	1.95	0.48
9:VJ:151:LEU:O	9:VJ:155:ILE:HG12	2.14	0.48
9:WD:86:ARG:HH21	9:WD:89:ASN:HD21	1.62	0.48
8:WE:158:SER:OG	8:WE:166:LYS:NZ	2.35	0.48
8:WG:192:HIS:ND1	8:WG:424:ASP:OD2	2.43	0.48
47:X:244:ARG:NH1	47:X:246:TYR:OH	2.47	0.48
56:XI:84:LYS:HE3	57:YI:254:CYS:O	2.13	0.48
60:f:227:THR:OG1	60:f:231:ASP:O	2.31	0.48
2:0W:106:SER:O	2:0W:109:ASN:ND2	2.43	0.48
2:0k:84:PHE:HB3	2:0k:98:LEU:HD11	1.95	0.48
9:AD:139:LEU:HG	9:AD:168:SER:HB2	1.95	0.48
9:AD:252:LYS:HZ3	8:AE:101:ASN:CG	2.21	0.48
8:AK:175:PRO:HB3	8:AK:390:ARG:HG2	1.95	0.48
10:AQ:67:THR:OG1	8:LK:116:ASP:OD1	2.29	0.48
12:AV:287:GLU:OE2	30:CW:354:ARG:NH2	2.43	0.48
13:Ab:531:ILE:HD11	13:Ab:588:ILE:HD13	1.95	0.48
9:BB:19:LYS:HA	9:BB:22:GLU:HB2	1.96	0.48
9:BB:273:LEU:O	9:BB:292:GLN:NE2	2.39	0.48
9:BB:389:PHE:HZ	9:BB:405:GLU:HG3	1.77	0.48
8:BI:408:TYR:HD2	8:BI:418:PHE:HZ	1.60	0.48
8:BK:246:GLY:H	8:BK:249:ASN:HD21	1.62	0.48
20:BT:260:GLY:HA3	8:KO:59:GLY:HA2	1.95	0.48
14:Bc:195:GLU:CD	33:Cv:423:LYS:HZ3	2.21	0.48
28:C2:91:PHE:HD2	29:DU:56:PHE:HD2	1.62	0.48
28:C7:134:GLN:O	28:C7:138:THR:HG22	2.14	0.48
9:CD:117:LEU:HD11	9:CD:154:LYS:CE	2.43	0.48
9:CH:218:THR:HG22	9:CH:219:THR:HG23	1.94	0.48
8:CI:192:HIS:NE2	8:CI:420:GLU:OE2	2.44	0.48
9:CL:219:THR:O	9:CL:219:THR:OG1	2.25	0.48
17:CQ:9:LYS:NZ	17:CQ:10:THR:O	2.47	0.48
2:CX:12:VAL:HG12	2:CX:76:GLU:HG3	1.95	0.48
2:Ck:38:HIS:NE2	46:o:458:ASP:OD2	2.46	0.48
33:Cv:325:PRO:HD3	33:Cx:181:GLU:OE2	2.12	0.48
29:D4:402:ARG:NH2	29:D4:413:ASP:OD1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D8:177:LYS:NZ	29:D8:240:ASP:HB2	2.28	0.48
8:DA:231:ILE:O	8:DA:235:VAL:HG12	2.13	0.48
8:DC:395:LEU:HD21	8:DC:422:ARG:HH11	1.78	0.48
9:DD:207:LEU:HB3	9:DD:225:LEU:HD22	1.96	0.48
9:DF:25:SER:HB2	9:DF:30:ILE:HB	1.95	0.48
9:DH:31:ASP:OD1	9:DH:35:THR:N	2.42	0.48
9:DL:222:TYR:O	9:DL:226:ASN:ND2	2.46	0.48
29:DQ:445:GLN:O	29:DQ:449:MET:HG3	2.13	0.48
29:DU:32:THR:OG1	29:DU:34:GLN:OE1	2.29	0.48
29:DV:148:ARG:HD2	29:DV:154:PHE:CD1	2.48	0.48
38:Dh:77:THR:OG1	38:Dh:78:ALA:N	2.46	0.48
29:EA:99:ASP:HA	29:EA:102:ASN:HD21	1.78	0.48
9:EB:8:GLN:HE22	9:EB:14:ASN:HA	1.79	0.48
9:EB:8:GLN:OE1	9:EB:17:GLY:HA3	2.14	0.48
8:EG:297:GLU:HG3	8:EG:299:ALA:H	1.78	0.48
9:EH:116:VAL:HG12	9:EH:117:LEU:HD23	1.96	0.48
9:EH:174:LYS:HD3	9:EH:175:VAL:HG23	1.94	0.48
8:EK:223:THR:O	8:EK:225:THR:N	2.47	0.48
35:Ee:213:THR:O	9:LH:340:TYR:OH	2.30	0.48
9:FD:43:GLN:O	9:FD:47:ILE:HD13	2.14	0.48
8:FE:152:LEU:HD11	8:FE:156:ARG:HH21	1.78	0.48
9:FF:95:SER:OG	9:FF:108:GLU:OE1	2.29	0.48
8:FG:367:ASP:OD1	8:FG:367:ASP:N	2.45	0.48
9:GH:121:ARG:NH2	9:GH:158:GLU:OE2	2.47	0.48
8:GI:313:MET:HE2	8:GI:382:THR:HG22	1.96	0.48
9:GL:237:THR:HB	9:GL:240:LEU:HD11	1.94	0.48
9:HB:165:ASN:ND2	9:HB:250:LEU:HD21	2.28	0.48
9:HD:67:ASP:OD1	9:HD:67:ASP:N	2.47	0.48
9:HH:322:SER:OG	9:HH:323:MET:N	2.47	0.48
8:HK:150:ALA:O	8:HK:154:MET:HG2	2.12	0.48
8:HK:221:ARG:O	8:HK:221:ARG:HD2	2.13	0.48
9:HN:290:THR:HA	9:HN:293:MET:HE2	1.95	0.48
8:HO:164:LYS:HA	8:HO:164:LYS:HD2	1.70	0.48
8:IG:116:ASP:OD1	8:IG:117:LEU:N	2.47	0.48
8:IG:128:LEU:O	51:N:27:ARG:NH2	2.43	0.48
48:J:44:GLU:HG2	48:J:48:ARG:HH22	1.78	0.48
8:JK:285:GLN:HE22	8:JK:287:SER:HB2	1.78	0.48
8:JM:88:HIS:ND1	8:JM:90:GLU:HG2	2.28	0.48
9:KF:314:ALA:HB3	9:KF:368:ILE:HB	1.95	0.48
9:KH:193:VAL:HG11	9:KH:262:ARG:HH21	1.79	0.48
8:KI:122:ILE:HD13	8:KI:122:ILE:HA	1.74	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KJ:314:ALA:HB3	9:KJ:368:ILE:HB	1.96	0.48
9:KJ:332:ASN:OD1	9:KJ:336:LYS:NZ	2.30	0.48
8:KM:362:VAL:HG13	8:KM:370:LYS:HD3	1.95	0.48
9:LL:156:ARG:NH1	9:LL:197:ASP:OD1	2.46	0.48
9:MF:131:GLN:NE2	9:MF:249:ASP:OD1	2.47	0.48
8:MK:204:VAL:HG11	8:MK:231:ILE:HD11	1.94	0.48
8:NA:234:ILE:HD12	8:NA:270:ALA:HB1	1.95	0.48
67:NF:502:GTP:O2'	8:NG:206:ASN:OD1	2.29	0.48
9:NH:130:LEU:HB3	9:NH:162:ARG:HE	1.78	0.48
8:NI:370:LYS:HZ1	8:NI:372:GLN:HG2	1.78	0.48
9:OH:149:THR:O	9:OH:152:ILE:HG12	2.13	0.48
9:PD:334:GLN:HE21	9:PD:348:ASN:ND2	2.11	0.48
8:PE:108:TYR:HD2	8:PE:413:MET:HG2	1.79	0.48
8:PI:188:ILE:HA	8:PI:191:THR:HG22	1.94	0.48
9:PJ:83:GLN:O	9:QJ:281:TYR:OH	2.23	0.48
8:QC:141:PHE:HD2	8:QC:172:TYR:HA	1.78	0.48
8:QI:5:ILE:HG12	8:QI:64:ARG:HB2	1.94	0.48
8:RA:367:ASP:N	8:RA:367:ASP:OD2	2.45	0.48
9:RB:316:VAL:HA	9:RB:352:ALA:HB3	1.96	0.48
9:RB:347:ASN:O	8:RC:181:VAL:HG12	2.14	0.48
8:RK:53:PHE:HB3	8:RK:61:HIS:HB3	1.95	0.48
9:SD:331:LEU:HD21	8:SE:176:GLN:C	2.39	0.48
8:SI:285:GLN:HG3	8:SI:287:SER:HB3	1.95	0.48
9:SL:364:SER:OG	9:SL:365:ALA:N	2.47	0.48
9:TD:359:ARG:HD3	46:o:467:ASP:OD1	2.14	0.48
8:TE:112:LYS:HB2	8:TE:112:LYS:HE3	1.59	0.48
9:TF:95:SER:OG	9:TF:108:GLU:OE2	2.31	0.48
9:TH:230:SER:HA	9:TH:233:MET:HB2	1.96	0.48
9:TL:113:VAL:HG21	9:TL:150:LEU:HG	1.96	0.48
9:UB:65:LEU:HD12	9:UB:90:PHE:CE1	2.48	0.48
8:UC:223:THR:O	8:UC:227:LEU:HD23	2.14	0.48
9:UD:215:LEU:HD22	9:UD:217:LEU:HG	1.95	0.48
8:UE:175:PRO:HD3	8:UE:390:ARG:NH1	2.28	0.48
8:UI:298:PRO:HG2	8:UI:308:ARG:HH22	1.79	0.48
9:UJ:6:HIS:CD2	9:UJ:21:TRP:HE1	2.31	0.48
9:VF:276:ARG:NH2	59:b:455:ILE:HG12	2.29	0.48
8:VG:113:GLU:HG2	8:VG:114:ILE:HG23	1.94	0.48
8:VG:396:ASP:OD1	8:VG:396:ASP:N	2.46	0.48
9:VH:3:GLU:HG2	9:VH:127:CYS:SG	2.54	0.48
9:VJ:226:ASN:HA	9:VJ:229:VAL:HG12	1.96	0.48
8:VM:114:ILE:HA	8:VM:117:LEU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:W:77:ASN:N	55:W:77:ASN:OD1	2.46	0.48
9:WD:68:LEU:HD23	9:WD:112:LEU:HD22	1.96	0.48
9:WF:330:MET:SD	9:WF:351:THR:OG1	2.72	0.48
8:WI:413:MET:HE3	8:WI:417:GLU:OE1	2.14	0.48
8:WK:311:LYS:HE2	8:WK:311:LYS:HA	1.95	0.48
8:WM:296:PHE:CD2	8:WM:341:ILE:HD13	2.49	0.48
47:X:131:MET:HB2	47:X:154:LEU:HD12	1.96	0.48
60:f:47:GLY:H	60:f:589:HIS:HE2	1.62	0.48
61:h:61:LEU:HD11	62:j:25:ILE:HG22	1.95	0.48
62:i:131:CYS:O	62:i:148:ARG:NH1	2.47	0.48
66:w:376:SER:HB2	66:w:390:SER:HA	1.94	0.48
3:x:107:ILE:HD11	3:x:205:MET:HB3	1.95	0.48
4:y:1338:GLU:HG2	4:y:1376:ALA:HA	1.95	0.48
2:0c:40:LYS:O	2:0c:41:ILE:HD13	2.13	0.48
2:0c:109:ASN:OD1	2:0c:110:ASP:N	2.46	0.48
7:A8:202:MET:HG2	9:TH:337:ASN:OD1	2.14	0.48
8:AE:431:ASP:OD1	56:XK:102:ARG:NH2	2.29	0.48
9:AH:327:ASP:OD1	9:AH:328:GLU:HG3	2.13	0.48
9:AJ:314:ALA:HB3	9:AJ:368:ILE:HB	1.95	0.48
9:AJ:429:THR:OG1	9:AJ:431:GLU:O	2.31	0.48
8:AM:119:LEU:HD11	8:AM:156:ARG:HB3	1.94	0.48
12:AV:243:CYS:C	12:AV:244:ILE:HD13	2.38	0.48
13:Aa:564:ASP:OD1	13:Aa:565:PHE:N	2.46	0.48
13:Ab:451:VAL:HG22	13:Ab:467:LEU:HB3	1.94	0.48
13:Ad:457:ARG:NH2	9:FB:218:THR:OG1	2.47	0.48
16:At:276:ILE:HD11	16:Ax:48:TRP:HZ2	1.78	0.48
8:BA:107:HIS:CD2	8:BA:152:LEU:HB3	2.48	0.48
9:BB:203:ASP:OD2	9:BB:302:ALA:N	2.46	0.48
9:BB:357:PRO:HD2	14:Bb:271:TRP:CD1	2.49	0.48
8:BC:248:LEU:HB2	8:BC:354:GLY:HA2	1.96	0.48
9:BD:215:LEU:HD21	9:BD:273:LEU:HD22	1.96	0.48
9:BD:372:THR:O	9:BD:375:GLN:HG2	2.13	0.48
9:BH:203:ASP:HB3	9:BH:301:ALA:HA	1.96	0.48
29:C1:221:GLU:OE1	29:C1:338:GLN:HG3	2.13	0.48
28:C8:220:LEU:HD22	44:EV:25:LYS:HG2	1.96	0.48
9:CB:390:ARG:HH21	9:CB:391:ARG:HD3	1.78	0.48
8:CK:335:ILE:HA	8:CK:338:LYS:HZ1	1.79	0.48
9:CL:221:THR:OG1	9:CL:222:TYR:N	2.46	0.48
2:Ci:60:ASN:OD1	2:Ci:62:THR:N	2.47	0.48
8:DC:154:MET:HB3	8:DC:197:HIS:HB2	1.96	0.48
9:DF:101:TRP:O	9:DF:105:HIS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DI:103:TYR:CE2	8:DI:148:GLY:HA2	2.49	0.48
8:DK:223:THR:OG1	8:DK:225:THR:OG1	2.31	0.48
29:DS:305:ASP:N	29:DS:305:ASP:OD1	2.45	0.48
29:DU:212:ASP:OD1	29:DU:214:VAL:N	2.47	0.48
41:Dn:185:GLN:HB3	8:NE:163:LYS:HZ2	1.79	0.48
42:E:731:LEU:HD11	9:IB:37:HIS:ND1	2.29	0.48
29:EA:176:ILE:HG13	29:EA:321:ARG:HG3	1.95	0.48
8:EC:39:ASP:OD1	47:X:511:TYR:N	2.46	0.48
8:EC:64:ARG:HH12	8:EC:128:LEU:HD22	1.79	0.48
8:EE:7:ILE:N	8:EE:136:LEU:O	2.46	0.48
9:EF:321:MET:SD	9:EF:321:MET:N	2.85	0.48
9:EJ:46:ARG:HB2	9:EJ:241:ARG:HA	1.94	0.48
8:EM:7:ILE:HB	8:EM:137:ILE:HD13	1.94	0.48
9:EN:68:LEU:HD12	9:EN:97:ALA:HB2	1.94	0.48
29:EP:220:ARG:O	29:EP:224:MET:HB2	2.13	0.48
42:F:468:HIS:HD2	9:HJ:48:ASN:HB3	1.79	0.48
9:FB:293:MET:HB2	9:FB:367:PHE:HB2	1.96	0.48
8:FG:171:ILE:HG23	8:FG:206:ASN:HB2	1.95	0.48
9:FL:26:ASP:O	9:FL:359:ARG:NH1	2.46	0.48
9:GB:293:MET:SD	9:GB:367:PHE:HB2	2.54	0.48
9:GD:272:PRO:HG3	9:GD:364:SER:HA	1.96	0.48
8:GM:406:HIS:HA	8:GM:409:VAL:HG22	1.96	0.48
8:HE:261:PRO:HG2	8:HE:313:MET:HE3	1.95	0.48
9:HH:295:ASP:HB3	9:HH:298:ASN:HB2	1.95	0.48
8:HK:65:ALA:O	8:HK:91:GLN:NE2	2.36	0.48
8:HO:218:ASP:OD1	8:HO:218:ASP:N	2.39	0.48
8:IC:5:ILE:HD12	8:IC:125:LEU:HD13	1.95	0.48
9:IL:112:LEU:HD12	51:O:139:ARG:HH12	1.78	0.48
9:JH:86:ARG:HD3	9:JH:88:ASP:HB2	1.96	0.48
9:JH:258:VAL:HG13	8:JI:407:TRP:HH2	1.79	0.48
8:KE:180:ALA:HB3	8:KE:183:GLU:HB3	1.95	0.48
9:KH:283:ALA:HA	9:LH:55:THR:HG23	1.96	0.48
9:KJ:102:ALA:HB2	9:KJ:403:MET:HE2	1.96	0.48
9:KN:131:GLN:HE22	9:KN:250:LEU:HB2	1.78	0.48
9:LD:1:MET:HG3	9:LD:2:ARG:HE	1.78	0.48
9:LD:36:TYR:OH	9:LD:40:SER:O	2.31	0.48
8:LM:155:GLU:OE2	8:LM:197:HIS:NE2	2.47	0.48
8:ME:259:LEU:O	8:ME:380:ASN:ND2	2.45	0.48
9:MF:177:ASP:OD1	9:MF:178:THR:OG1	2.23	0.48
8:MI:392:ASP:OD2	8:MI:422:ARG:NE	2.46	0.48
9:N0:339:SER:HB2	58:q:56:HIS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NA:124:LYS:HB2	8:NA:124:LYS:HE3	1.74	0.48
9:NH:54:ALA:HB3	9:NH:58:LYS:HB3	1.93	0.48
9:NJ:170:VAL:HG21	9:NJ:377:LEU:HD11	1.95	0.48
8:NK:399:TYR:O	8:NK:402:ARG:NH1	2.46	0.48
9:O0:67:ASP:H	9:O0:92:PHE:HB3	1.79	0.48
9:OB:252:LYS:NZ	8:OC:71:GLU:OE2	2.37	0.48
8:OE:367:ASP:OD1	8:OE:367:ASP:N	2.38	0.48
8:OG:281:ALA:HA	8:OG:284:GLU:HB3	1.94	0.48
67:OH:502:GTP:O2'	8:OI:206:ASN:ND2	2.47	0.48
9:OJ:100:ASN:HB3	9:OJ:103:LYS:HG2	1.96	0.48
8:OK:322:ASP:HB2	8:OK:372:GLN:HE21	1.79	0.48
9:OL:377:LEU:HG	9:OL:380:ARG:HH21	1.78	0.48
52:P:86:LEU:HD21	52:P:108:LEU:HA	1.94	0.48
8:PC:3:GLU:HA	8:PC:51:THR:HA	1.94	0.48
9:PD:101:TRP:HD1	9:PD:146:GLY:HA2	1.79	0.48
9:QD:163:ILE:HD13	9:QD:250:LEU:HB3	1.95	0.48
8:QG:255:PHE:HE1	8:QG:318:LEU:HD21	1.77	0.48
8:QI:137:ILE:HG21	8:QI:154:MET:HE2	1.96	0.48
8:QI:166:LYS:N	8:QI:199:ASP:OD2	2.47	0.48
8:QI:278:ALA:HA	8:QI:369:ALA:HB2	1.95	0.48
9:RD:101:TRP:NE1	9:RD:184:ASN:HA	2.29	0.48
8:RG:7:ILE:HD13	8:RG:66:VAL:HB	1.95	0.48
9:RL:270:PHE:CE2	9:RL:272:PRO:HD2	2.49	0.48
9:SF:293:MET:HE1	9:SF:367:PHE:HA	1.95	0.48
8:SG:408:TYR:HB3	8:SG:413:MET:SD	2.53	0.48
9:TH:49:VAL:HG11	9:TH:241:ARG:HG2	1.95	0.48
9:TH:51:TYR:HD1	9:TH:61:PRO:HA	1.79	0.48
9:TH:65:LEU:HD13	9:TH:90:PHE:HE1	1.79	0.48
8:TK:155:GLU:HA	8:TK:197:HIS:CD2	2.49	0.48
9:UB:36:TYR:HD1	9:UB:38:GLY:H	1.60	0.48
9:UF:183:TYR:O	9:UF:187:LEU:HG	2.13	0.48
9:UH:287:PRO:HA	9:UH:290:THR:HG22	1.95	0.48
8:UM:28:HIS:HB2	8:UM:30:ILE:HD12	1.95	0.48
8:VC:310:GLY:HA3	8:VC:383:ALA:HB2	1.96	0.48
8:VI:11:GLN:HG3	8:VI:74:VAL:HG21	1.96	0.48
9:WB:66:VAL:HG11	9:WB:116:VAL:HB	1.94	0.48
8:WC:245:ASP:OD1	8:WC:246:GLY:N	2.47	0.48
9:WF:325:GLU:HG3	8:WG:221:ARG:HG2	1.95	0.48
8:WG:76:ASP:OD1	8:WG:76:ASP:N	2.46	0.48
8:WI:317:MET:CE	8:WI:375:VAL:HG13	2.42	0.48
63:l:149:TRP:O	63:l:153:ILE:HD12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0W:92:PRO:HA	2:0W:95:ASN:HB2	1.95	0.48
6:A0:200:GLY:HA2	8:HC:123:ARG:HD3	1.96	0.48
7:A7:168:LYS:NZ	9:RD:111:GLU:OE2	2.28	0.48
8:AC:164:LYS:HB3	8:AC:165:SER:H	1.46	0.48
9:AH:262:ARG:HH12	57:YI:247:MET:HE1	1.79	0.48
9:AH:364:SER:OG	9:AH:365:ALA:N	2.44	0.48
9:AJ:273:LEU:O	9:AJ:292:GLN:NE2	2.44	0.48
12:AW:363:ASP:OD2	61:h:70:ARG:HD2	2.14	0.48
7:Aw:82:ASP:OD2	7:Aw:83:LEU:N	2.47	0.48
18:B6:193:ASP:OD1	18:B6:193:ASP:N	2.41	0.48
9:BB:346:PRO:HG3	8:BC:394:LYS:HG2	1.96	0.48
8:BC:265:ILE:HG21	8:BC:313:MET:HE1	1.95	0.48
8:BI:261:PRO:O	9:BJ:396:HIS:NE2	2.46	0.48
8:BM:2:ARG:HB3	8:BM:242:LEU:HB3	1.96	0.48
8:BM:238:ILE:HD11	8:BM:378:LEU:HD21	1.96	0.48
22:BW:193:VAL:HG11	9:LF:213:ARG:HG2	1.96	0.48
24:Bh:110:THR:OG1	24:Bh:111:LEU:N	2.46	0.48
26:Bu:297:ARG:O	47:I:23:THR:OG1	2.29	0.48
28:C2:206:MET:SD	28:C2:464:ASN:ND2	2.85	0.48
28:C2:361:ILE:HG23	28:C2:455:LEU:HD22	1.96	0.48
28:C8:233:MET:HE3	28:C8:332:THR:HG21	1.96	0.48
8:CA:345:ASP:OD1	8:CA:345:ASP:N	2.44	0.48
9:CD:331:LEU:HD21	8:CE:176:GLN:HB3	1.95	0.48
8:CK:231:ILE:HA	8:CK:234:ILE:HG22	1.95	0.48
2:Cb:59:SER:HA	2:Cb:64:ARG:HH22	1.78	0.48
2:Cd:128:CYS:H	8:PG:85:GLN:CD	2.22	0.48
32:Cm:111:ILE:HD12	32:Cm:393:MET:HG3	1.94	0.48
33:Cq:271:GLU:OE2	33:Cs:18:GLN:NE2	2.43	0.48
29:D2:247:ARG:NH2	29:EA:196:GLU:OE1	2.31	0.48
29:D5:402:ARG:NH2	29:D5:413:ASP:OD2	2.46	0.48
9:DH:190:HIS:HA	9:DH:414:ASN:ND2	2.29	0.48
9:DJ:180:VAL:O	9:DJ:184:ASN:ND2	2.46	0.48
8:DM:65:ALA:O	8:DM:91:GLN:NE2	2.46	0.48
8:DM:98:ASP:OD1	8:DM:98:ASP:N	2.36	0.48
8:DM:240:ALA:HB1	8:DM:320:ARG:NH2	2.27	0.48
9:DN:101:TRP:CD1	9:DN:105:HIS:HB2	2.48	0.48
29:DU:311:GLN:HA	29:DU:314:ARG:HG3	1.96	0.48
29:EA:286:VAL:HG13	29:EA:289:ILE:HD11	1.95	0.48
9:EB:313:VAL:HG23	9:EB:348:ASN:HB3	1.95	0.48
9:EN:44:LEU:HA	9:EN:47:ILE:HD11	1.96	0.48
42:F:327:PRO:C	42:F:328:ARG:HD2	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:F3:160:ILE:HG21	28:F3:258:LEU:HB2	1.95	0.48
9:FD:13:GLY:HA2	9:FD:136:THR:HG22	1.95	0.48
8:FG:56:THR:HA	8:GG:285:GLN:HB2	1.96	0.48
9:FH:255:VAL:HG23	8:FI:407:TRP:CD1	2.49	0.48
8:GC:172:TYR:OH	8:GC:387:ALA:O	2.31	0.48
8:GC:261:PRO:HA	9:GD:394:PHE:CD2	2.49	0.48
8:GE:15:GLN:HA	8:GE:18:ASN:HD21	1.79	0.48
9:HB:133:PHE:HB2	9:HB:164:MET:HG3	1.95	0.48
8:HC:402:ARG:HD3	8:HC:405:VAL:HG11	1.95	0.48
8:HI:258:ASN:HD21	9:HJ:99:ASN:HD22	1.61	0.48
9:IB:250:LEU:H	9:IB:250:LEU:HD12	1.78	0.48
8:IG:206:ASN:OD1	67:IG:501:GTP:N2	2.46	0.48
9:IH:252:LYS:HD2	8:II:100:ALA:HA	1.96	0.48
9:IN:121:ARG:O	9:IN:125:GLU:HG2	2.14	0.48
8:JC:79:ARG:NH2	8:JC:92:LEU:O	2.47	0.48
9:JD:252:LYS:HG2	8:JE:100:ALA:HA	1.96	0.48
8:JE:349:THR:OG1	8:JE:350:GLY:N	2.43	0.48
9:JL:25:SER:HB3	9:JL:30:ILE:HB	1.96	0.48
9:JL:410:GLU:OE2	9:NJ:340:TYR:OH	2.32	0.48
49:K1:46:HIS:HE1	8:UK:219:ILE:HB	1.78	0.48
8:KC:97:GLU:N	8:KC:97:GLU:OE1	2.47	0.48
8:KE:297:GLU:CD	8:KE:298:PRO:HD2	2.39	0.48
8:KG:102:ASN:HB3	8:KG:105:ARG:HB2	1.95	0.48
8:KI:53:PHE:HB3	8:KI:61:HIS:HB3	1.95	0.48
9:KN:214:THR:O	9:KN:275:SER:OG	2.28	0.48
50:L1:131:ASN:OD1	50:L1:131:ASN:N	2.47	0.48
9:LF:39:ASP:OD1	9:LF:39:ASP:N	2.40	0.48
8:ME:285:GLN:OE1	8:ME:286:LEU:N	2.46	0.48
8:MG:228:ASN:N	8:MG:228:ASN:OD1	2.45	0.48
8:MI:88:HIS:CE1	8:MI:90:GLU:HB3	2.49	0.48
8:MM:133:GLN:NE2	8:MM:251:ASP:OD1	2.46	0.48
9:MN:170:VAL:HG21	9:MN:377:LEU:HD11	1.96	0.48
9:N0:294:PHE:CZ	9:N0:330:MET:HE1	2.49	0.48
9:ND:323:MET:HE1	9:ND:353:VAL:HG21	1.95	0.48
9:NF:240:LEU:HD11	9:NF:250:LEU:HD13	1.95	0.48
8:OC:349:THR:OG1	8:OC:350:GLY:N	2.46	0.48
8:OI:371:VAL:HG12	8:OI:373:ARG:H	1.79	0.48
8:PC:48:SER:OG	8:PC:243:ARG:O	2.28	0.48
9:PJ:91:VAL:HG11	9:PJ:116:VAL:HG12	1.95	0.48
8:PK:274:PRO:HG3	8:PK:374:ALA:HA	1.95	0.48
9:QF:131:GLN:NE2	9:QF:249:ASP:OD2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QH:194:GLU:HA	9:QH:262:ARG:HH12	1.79	0.48
9:QJ:386:THR:O	9:QJ:390:ARG:NE	2.45	0.48
8:QK:180:ALA:HB3	8:QK:183:GLU:HB2	1.95	0.48
9:QL:15:GLN:OE1	9:QL:226:ASN:ND2	2.46	0.48
9:RB:172:SER:OG	9:RB:205:GLU:HG2	2.14	0.48
9:RD:28:HIS:HD1	9:RD:47:ILE:HG13	1.78	0.48
9:RD:73:MET:SD	9:RD:77:ARG:NH2	2.80	0.48
9:RD:147:MET:HE2	9:RD:147:MET:HA	1.96	0.48
8:RG:310:GLY:HA3	8:RG:383:ALA:HB2	1.94	0.48
9:RH:383:GLU:HA	9:RH:386:THR:HG22	1.96	0.48
9:RH:395:LEU:HA	9:RH:398:TYR:HB2	1.95	0.48
9:RL:226:ASN:O	9:RL:230:SER:HB2	2.14	0.48
8:RM:28:HIS:HB2	8:RM:30:ILE:HG22	1.95	0.48
8:SA:289:ALA:O	8:SA:292:THR:OG1	2.28	0.48
9:SB:310:TYR:OH	9:SB:367:PHE:HZ	1.97	0.48
8:SC:52:PHE:C	8:SC:64:ARG:HE	2.21	0.48
8:SC:313:MET:SD	8:SC:313:MET:N	2.87	0.48
9:SD:130:LEU:O	9:SD:162:ARG:NH1	2.46	0.48
9:SF:49:VAL:HG11	9:SF:241:ARG:HB3	1.96	0.48
9:SF:215:LEU:HD21	9:SF:273:LEU:HD22	1.95	0.48
8:TE:56:THR:HG23	8:TE:58:ALA:H	1.79	0.48
8:TG:274:PRO:HG3	8:TG:374:ALA:HA	1.96	0.48
8:TK:123:ARG:NH2	8:TK:160:ASP:OD1	2.46	0.48
8:TK:288:VAL:HG22	8:TK:323:VAL:HG12	1.96	0.48
9:UD:131:GLN:HE21	9:UD:250:LEU:HB2	1.78	0.48
9:UD:288:GLU:HA	9:UD:291:GLN:HG3	1.95	0.48
9:UH:226:ASN:OD1	69:UH:501:GDP:N1	2.44	0.48
8:UK:119:LEU:HD11	8:UK:156:ARG:HB3	1.95	0.48
9:UL:347:ASN:ND2	8:UM:180:ALA:O	2.43	0.48
8:UM:223:THR:OG1	8:UM:224:TYR:N	2.46	0.48
8:UM:345:ASP:OD1	8:UM:345:ASP:N	2.35	0.48
9:VD:131:GLN:HE22	9:VD:249:ASP:HB2	1.78	0.48
9:VL:271:ALA:HB2	9:VL:293:MET:HB3	1.94	0.48
9:VN:271:ALA:HB2	9:VN:293:MET:HB2	1.95	0.48
9:WD:19:LYS:HD3	9:WD:227:HIS:HA	1.94	0.48
8:WE:142:GLY:HA2	8:WE:183:GLU:HB2	1.95	0.48
8:WG:150:ALA:O	8:WG:154:MET:HG2	2.13	0.48
8:WI:212:ILE:HD11	8:WI:300:ASN:HA	1.96	0.48
9:WL:7:LEU:N	9:WL:134:GLN:O	2.44	0.48
9:WL:359:ARG:NH1	9:WL:359:ARG:HB2	2.28	0.48
8:WM:185:TYR:HE2	8:WM:404:PHE:HB2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:XI:30:ARG:H	56:XI:57:THR:HG22	1.79	0.48
56:XJ:53:ASN:O	56:XJ:56:THR:OG1	2.31	0.48
47:Y:260:ARG:HH12	47:Y:285:ARG:HG2	1.79	0.48
59:b:249:ARG:HH12	59:b:253:ILE:HG13	1.78	0.48
59:b:448:LEU:HB3	59:b:449:ARG:NH2	2.28	0.48
62:i:250:THR:HA	62:i:262:ASN:HD21	1.79	0.48
66:u:372:TYR:O	66:u:376:SER:OG	2.25	0.48
4:z:1338:GLU:HB2	4:z:1374:LYS:HD3	1.96	0.48
2:0a:42:ARG:NH1	2:0a:49:GLN:OE1	2.39	0.48
2:0i:101:CYS:O	2:0i:105:VAL:HG12	2.13	0.48
8:AI:317:MET:HE3	8:AI:377:MET:HG3	1.96	0.48
9:AJ:141:GLY:O	9:AJ:145:SER:OG	2.28	0.48
10:AQ:40:GLN:NE2	4:z:1394:SER:O	2.43	0.48
10:AQ:65:MET:HE3	10:AQ:65:MET:HB2	1.81	0.48
13:Aa:176:GLN:HE22	13:Aa:178:PRO:HG3	1.79	0.48
13:Aa:656:ASN:HD21	13:Aa:658:ASP:HB2	1.79	0.48
15:Aq:106:SER:OG	15:Aq:107:ARG:N	2.46	0.48
15:Aq:127:ASP:OD1	15:Aq:127:ASP:N	2.45	0.48
7:Aw:54:ARG:NH1	7:Aw:54:ARG:O	2.46	0.48
7:Ay:54:ARG:HD3	9:FJ:122:LYS:NZ	2.29	0.48
7:Ay:73:ASN:O	7:Ay:75:LYS:N	2.43	0.48
17:B1:22:PRO:HD2	8:NI:32:PRO:HG3	1.96	0.48
8:BA:175:PRO:O	8:BA:177:VAL:N	2.47	0.48
9:BF:184:ASN:OD1	9:BF:398:TYR:OH	2.25	0.48
8:BG:254:GLU:O	8:BG:258:ASN:ND2	2.47	0.48
9:BJ:329:GLN:O	9:BJ:333:VAL:HG12	2.13	0.48
8:BK:236:SER:O	8:BK:243:ARG:NH2	2.46	0.48
9:BL:21:TRP:O	9:BL:25:SER:OG	2.25	0.48
8:BM:275:VAL:HG23	8:BM:368:LEU:HD21	1.94	0.48
19:BP:98:SER:HB3	19:BP:100:MET:HG3	1.96	0.48
21:Bk:270:PRO:HA	8:KM:357:TYR:HE2	1.78	0.48
28:C2:270:LYS:HG3	32:Cm:179:PHE:CZ	2.49	0.48
9:CD:193:VAL:HG23	9:CD:265:PHE:HE1	1.78	0.48
9:CF:94:GLN:N	9:CF:94:GLN:OE1	2.46	0.48
8:CM:339:ARG:HH22	8:CM:342:GLN:HA	1.79	0.48
2:CU:111:LEU:HB2	2:CU:114:LEU:HD21	1.95	0.48
2:Ch:34:ARG:HD2	2:Ch:39:ASP:OD1	2.14	0.48
2:Ck:109:ASN:OD1	2:Ck:109:ASN:N	2.45	0.48
31:Cl:328:THR:OG1	8:HE:76:ASP:OD2	2.32	0.48
32:Co:173:LYS:HZ2	32:Co:176:ARG:HH12	1.62	0.48
33:Cv:32:ARG:NH2	33:Cw:282:GLN:OE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D3:413:ASP:OD1	29:D3:413:ASP:N	2.41	0.48
9:DF:207:LEU:HB3	9:DF:225:LEU:HD22	1.95	0.48
8:DG:139:HIS:ND1	8:DG:146:GLY:O	2.43	0.48
9:DH:138:SER:OG	69:DH:501:GDP:O1A	2.31	0.48
9:DH:219:THR:O	9:DH:219:THR:OG1	2.30	0.48
29:DV:240:ASP:OD2	29:DV:244:ARG:NH2	2.47	0.48
35:Da:113:LEU:HD22	35:Da:179:GLN:HA	1.96	0.48
43:E1:44:LYS:HB3	43:E1:67:LEU:HD11	1.96	0.48
9:EB:152:ILE:H	9:EB:152:ILE:HD12	1.78	0.48
9:EB:309:ARG:NH1	9:EB:343:GLU:OE1	2.46	0.48
9:ED:62:ARG:NH1	9:ED:127:CYS:SG	2.87	0.48
8:EG:27:GLU:HA	8:EG:361:THR:HG21	1.96	0.48
8:EI:248:LEU:HD12	8:EI:355:ILE:HD12	1.96	0.48
9:EJ:253:LEU:HD23	9:EJ:350:LYS:HD3	1.94	0.48
8:EK:259:LEU:HD11	8:EK:378:LEU:HB3	1.95	0.48
8:EM:178:SER:OG	8:EM:183:GLU:OE1	2.32	0.48
29:EP:359:LYS:HA	29:EP:359:LYS:HE3	1.96	0.48
29:EQ:208:ASP:OD1	29:EQ:208:ASP:N	2.43	0.48
9:FB:252:LYS:HG2	8:FC:101:ASN:HB2	1.95	0.48
8:FI:88:HIS:CD2	8:GI:283:HIS:HB2	2.48	0.48
9:GB:40:SER:OG	9:GB:41:ASP:N	2.47	0.48
8:GK:381:THR:OG1	8:GK:382:THR:N	2.46	0.48
9:GN:272:PRO:HG3	9:GN:364:SER:HA	1.96	0.48
8:HK:188:ILE:HD11	8:HK:425:LEU:HG	1.96	0.48
9:HN:398:TYR:HB3	9:HN:403:MET:HG3	1.94	0.48
8:HO:220:GLU:HG3	8:HO:221:ARG:HD3	1.94	0.48
8:II:244:PHE:HB2	8:II:356:ASN:HD21	1.78	0.48
48:J:145:LYS:HA	48:J:145:LYS:HD3	1.72	0.48
8:JG:56:THR:HG22	8:JG:60:LYS:H	1.79	0.48
9:JH:86:ARG:HG2	9:JH:88:ASP:H	1.78	0.48
9:JH:186:THR:HG23	9:JH:381:ILE:HG22	1.94	0.48
8:JM:98:ASP:N	8:JM:98:ASP:OD1	2.46	0.48
8:JM:324:VAL:HG23	8:JM:327:ASP:H	1.79	0.48
8:KO:105:ARG:HG2	8:KO:411:GLU:OE1	2.14	0.48
9:LB:1:MET:N	9:LB:3:GLU:OE2	2.47	0.48
9:LD:117:LEU:HA	9:LD:120:VAL:HG22	1.96	0.48
8:LM:345:ASP:OD1	8:LM:438:ASP:HB2	2.14	0.48
48:M:48:ARG:O	48:M:52:GLN:HG2	2.13	0.48
8:ME:430:LYS:HA	8:ME:433:GLU:OE1	2.13	0.48
9:MF:256:ASN:HD21	8:MG:101:ASN:HD22	1.61	0.48
8:MK:303:VAL:HG13	8:MK:305:CYS:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NB:314:ALA:HB3	9:NB:368:ILE:HB	1.94	0.48
8:NC:203:MET:HB2	8:NC:269:LEU:HA	1.96	0.48
8:NE:62:VAL:HG13	8:OE:283:HIS:NE2	2.28	0.48
9:NJ:208:TYR:CZ	9:NJ:225:LEU:HD11	2.49	0.48
51:O:16:ILE:HD12	51:O:98:ASN:HB3	1.95	0.48
9:OB:309:ARG:HD2	9:OB:427:ASP:HA	1.95	0.48
8:OC:8:HIS:HE1	8:OC:21:TRP:HE1	1.62	0.48
9:OL:45:GLU:HG2	9:OL:46:ARG:HG2	1.96	0.48
8:PA:167:LEU:HD12	8:PA:202:PHE:HE2	1.78	0.48
9:QB:321:MET:SD	9:QB:321:MET:N	2.87	0.48
9:QF:395:LEU:HD12	9:QF:398:TYR:HB2	1.96	0.48
8:QG:244:PHE:HB2	8:QG:356:ASN:HD21	1.79	0.48
9:QL:324:LYS:HD3	8:QM:210:TYR:HB3	1.96	0.48
8:QM:271:THR:OG1	8:QM:295:CYS:SG	2.71	0.48
9:RB:256:ASN:OD1	8:RC:181:VAL:HG22	2.14	0.48
9:RF:122:LYS:NZ	9:SF:291:GLN:O	2.47	0.48
9:RJ:16:ILE:HD11	9:RJ:136:THR:HB	1.96	0.48
9:RL:345:ILE:HD12	8:RM:398:MET:HE1	1.96	0.48
8:SA:157:LEU:HG	8:SA:166:LYS:HZ3	1.78	0.48
8:SA:304:LYS:O	8:SA:390:ARG:NH1	2.47	0.48
9:SD:36:TYR:OH	9:SD:40:SER:O	2.29	0.48
8:SE:213:CYS:HA	8:SE:217:LEU:HB2	1.96	0.48
8:SG:9:VAL:HG21	8:SG:150:ALA:HB2	1.96	0.48
9:SL:390:ARG:HD3	9:SL:391:ARG:HG2	1.95	0.48
9:TH:258:VAL:HG23	8:TI:407:TRP:HH2	1.79	0.48
9:VL:326:VAL:HG13	9:VL:330:MET:HE2	1.96	0.48
8:VM:4:CYS:SG	8:VM:51:THR:OG1	2.68	0.48
9:WF:143:THR:O	9:WF:147:MET:HB3	2.14	0.48
9:WH:170:VAL:HG23	9:WH:203:ASP:OD2	2.14	0.48
8:WM:346:TRP:HB3	9:WN:391:ARG:HD3	1.95	0.48
8:WM:381:THR:HG22	8:WM:383:ALA:H	1.78	0.48
63:m:39:LYS:HA	63:m:42:LEU:HB2	1.95	0.48
2:0E:114:LEU:H	2:0E:115:ARG:NH2	2.12	0.48
2:0W:111:LEU:HD23	2:0W:111:LEU:H	1.78	0.48
2:0g:26:PHE:O	2:0g:30:LEU:HD12	2.14	0.48
6:A0:52:CYS:HA	6:A0:58:HIS:CE1	2.49	0.48
7:A5:51:TYR:HA	9:QF:125:GLU:CD	2.38	0.48
8:AE:211:ASP:HB3	8:AE:215:ARG:NH2	2.28	0.48
9:AH:31:ASP:OD2	9:AH:37:HIS:ND1	2.36	0.48
8:AK:348:PRO:HD2	9:AL:388:MET:HE3	1.95	0.48
13:Aa:266:GLN:HG2	13:Aa:268:ARG:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ad:123:SER:OG	13:Ad:129:GLU:OE2	2.28	0.48
15:Ar:99:THR:O	33:Cq:139:LYS:NZ	2.41	0.48
15:Ar:176:TYR:O	15:Ar:177:GLN:HG2	2.14	0.48
9:BD:87:PRO:HD3	9:CD:281:TYR:HD2	1.78	0.48
9:BD:137:HIS:HE2	9:BD:168:SER:HG	1.56	0.48
8:BE:173:PRO:O	8:BE:390:ARG:NH2	2.47	0.48
8:BM:3:GLU:HG3	8:BM:129:CYS:HB3	1.95	0.48
19:BP:407:THR:O	19:BP:407:THR:OG1	2.31	0.48
21:BV:309:TRP:CD2	9:LD:362:LYS:HE2	2.49	0.48
14:Ba:183:ARG:HG3	28:C4:91:PHE:HB3	1.95	0.48
18:Bz:13:ILE:HD13	60:e:385:PHE:HE2	1.78	0.48
18:Bz:227:LYS:O	18:Bz:231:GLN:HG2	2.13	0.48
5:C:169:LEU:HD11	5:C:174:LEU:HD23	1.95	0.48
8:CC:211:ASP:OD1	8:CC:211:ASP:N	2.45	0.48
9:CD:258:VAL:HG23	8:CE:407:TRP:HE1	1.78	0.48
9:CD:321:MET:N	9:CD:321:MET:SD	2.86	0.48
8:CG:321:GLY:HA2	8:CG:359:PRO:HD3	1.95	0.48
9:CH:70:PRO:HA	9:CH:73:MET:HE3	1.95	0.48
8:CK:6:SER:OG	8:CK:8:HIS:NE2	2.41	0.48
8:CK:267:PHE:HB3	8:CK:384:ILE:HD13	1.95	0.48
8:CM:310:GLY:HA3	8:CM:383:ALA:HB2	1.96	0.48
2:CU:134:HIS:O	2:CU:136:GLY:N	2.46	0.48
2:CV:34:ARG:O	2:CV:38:HIS:N	2.47	0.48
2:Ck:129:ASP:N	8:TE:282:TYR:OH	2.47	0.48
29:D4:242:GLN:O	29:D4:246:ASN:ND2	2.46	0.48
8:DG:417:GLU:HA	8:DG:420:GLU:HG2	1.95	0.48
8:DI:227:LEU:O	8:DI:231:ILE:HD12	2.14	0.48
8:DK:269:LEU:HD22	8:DK:303:VAL:HG21	1.96	0.48
8:DM:60:LYS:NZ	8:DM:85:GLN:O	2.38	0.48
36:Dd:169:TYR:O	36:Dd:170:ARG:NE	2.46	0.48
42:E:801:ILE:HA	42:E:804:GLN:HG2	1.94	0.48
9:EB:293:MET:HE3	9:EB:367:PHE:HB2	1.95	0.48
9:EF:324:LYS:HG2	8:EG:221:ARG:HA	1.96	0.48
9:EF:395:LEU:O	9:EF:399:THR:OG1	2.28	0.48
8:EK:190:THR:HA	8:EK:193:THR:HG22	1.96	0.48
29:EP:350:ILE:O	29:EP:354:THR:HG23	2.14	0.48
44:ES:179:GLU:OE2	44:ES:437:TYR:OH	2.30	0.48
44:EV:340:LYS:HG3	44:EV:395:LEU:HD11	1.95	0.48
42:F:571:ASP:OD1	42:F:576:ARG:NH1	2.47	0.48
9:FH:190:HIS:HD2	9:FH:411:ALA:HA	1.79	0.48
9:FN:27:GLU:OE2	9:FN:241:ARG:NH1	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GG:188:ILE:HG13	8:GG:395:LEU:HD13	1.95	0.48
9:GH:211:CYS:HB2	9:GH:217:LEU:HD12	1.96	0.48
8:GI:269:LEU:HD11	8:GI:384:ILE:HD13	1.96	0.48
8:GI:319:TYR:HB3	8:GI:323:VAL:HG21	1.94	0.48
9:GJ:31:ASP:OD2	9:GJ:32:PRO:HD2	2.14	0.48
9:GJ:327:ASP:HB3	8:GK:177:VAL:HG13	1.95	0.48
9:HD:257:MET:HE3	9:HD:312:THR:HG23	1.94	0.48
9:HF:5:VAL:HG22	9:HF:62:ARG:HD2	1.96	0.48
9:HJ:135:LEU:HD22	9:HJ:152:ILE:HD11	1.96	0.48
8:HM:238:ILE:HA	8:HM:318:LEU:HD22	1.95	0.48
9:ID:372:THR:HG22	9:ID:375:GLN:NE2	2.28	0.48
8:II:1:MET:SD	8:II:1:MET:N	2.71	0.48
9:IJ:325:GLU:OE2	8:IK:221:ARG:NE	2.47	0.48
8:IK:396:ASP:OD2	8:IK:422:ARG:NH2	2.47	0.48
9:IL:205:GLU:HA	9:IL:208:TYR:CD2	2.48	0.48
9:IL:236:VAL:HG13	9:IL:237:THR:HG23	1.95	0.48
8:JC:76:ASP:HA	8:JC:79:ARG:HD2	1.96	0.48
8:JE:259:LEU:O	8:JE:380:ASN:ND2	2.39	0.48
9:JF:151:LEU:O	9:JF:155:ILE:HG13	2.14	0.48
9:JF:299:MET:HE1	9:JF:367:PHE:HE2	1.79	0.48
8:JM:137:ILE:HD13	8:JM:154:MET:HE1	1.96	0.48
8:KG:164:LYS:HB2	8:KG:164:LYS:HE2	1.72	0.48
8:KM:68:VAL:HG11	8:KM:149:PHE:HE2	1.79	0.48
8:LK:274:PRO:HG3	8:LK:374:ALA:HA	1.96	0.48
9:LN:202:ILE:HD13	9:LN:229:VAL:HG22	1.95	0.48
9:MH:198:GLU:HG2	9:MH:266:PHE:HE2	1.77	0.48
9:ML:293:MET:HG2	9:ML:367:PHE:HB2	1.96	0.48
9:NB:10:GLY:O	9:NB:14:ASN:HB2	2.14	0.48
9:NB:46:ARG:NH1	9:NB:240:LEU:O	2.46	0.48
8:NC:105:ARG:HH11	8:NC:109:THR:HG21	1.79	0.48
8:NC:107:HIS:HD2	8:NC:152:LEU:HB2	1.79	0.48
8:NG:9:VAL:HG11	8:NG:150:ALA:HB2	1.96	0.48
9:NJ:296:ALA:HB1	9:NJ:305:PRO:HD2	1.96	0.48
8:OE:242:LEU:HD11	8:OE:252:LEU:HB2	1.96	0.48
9:OF:248:ALA:HA	9:OF:252:LYS:HD3	1.96	0.48
9:OH:209:ASP:O	9:OH:213:ARG:HB2	2.14	0.48
9:OL:101:TRP:CD1	9:OL:403:MET:HE1	2.43	0.48
9:OL:186:THR:HG22	9:OL:415:MET:HE3	1.96	0.48
9:PB:278:SER:O	9:PB:278:SER:OG	2.26	0.48
9:PD:133:PHE:CD2	9:PD:164:MET:HE1	2.49	0.48
9:PF:316:VAL:HA	9:PF:352:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PG:55:GLU:C	8:QG:285:GLN:HE22	2.22	0.48
8:PG:386:GLU:OE2	8:PG:390:ARG:NH1	2.47	0.48
9:PH:247:ASN:ND2	9:PH:247:ASN:H	2.12	0.48
8:PI:245:ASP:OD1	8:PI:245:ASP:N	2.46	0.48
8:PI:287:SER:N	8:PI:290:GLU:OE2	2.46	0.48
8:PM:301:GLN:HE22	8:PM:307:PRO:HD3	1.78	0.48
9:QB:31:ASP:OD2	9:QB:31:ASP:N	2.46	0.48
8:QC:188:ILE:HG13	8:QC:395:LEU:HD22	1.96	0.48
9:QF:6:HIS:NE2	9:QF:8:GLN:OE1	2.47	0.48
9:QJ:1:MET:HE1	8:QK:96:LYS:HD3	1.94	0.48
9:QL:60:VAL:HG21	9:QL:86:ARG:HB2	1.96	0.48
54:R:140:HIS:ND1	54:R:140:HIS:O	2.46	0.48
9:RF:139:LEU:HA	9:RF:145:SER:HB2	1.96	0.48
9:RH:141:GLY:O	9:RH:145:SER:OG	2.26	0.48
8:SE:150:ALA:O	8:SE:154:MET:HG2	2.13	0.48
8:SE:268:PRO:HA	8:SE:380:ASN:HB3	1.96	0.48
8:SE:399:TYR:OH	8:SE:415:GLU:OE2	2.32	0.48
8:SG:188:ILE:HG13	8:SG:395:LEU:HD13	1.95	0.48
9:SH:347:ASN:HD22	8:SI:178:SER:HB3	1.78	0.48
8:SI:437:VAL:O	9:SJ:391:ARG:NH2	2.47	0.48
9:SJ:420:SER:HA	9:SJ:423:GLN:HE21	1.79	0.48
9:TB:289:LEU:O	9:TB:293:MET:HG2	2.13	0.48
8:TI:33:ASP:O	8:TI:60:LYS:NZ	2.47	0.48
9:TL:282:ARG:NH2	9:TL:288:GLU:OE1	2.47	0.48
9:UF:279:GLN:OE1	9:UF:282:ARG:NH2	2.46	0.48
9:VD:207:LEU:HB3	9:VD:225:LEU:HD22	1.95	0.48
8:VE:89:PRO:HA	8:VE:92:LEU:HD12	1.96	0.48
8:VE:320:ARG:HG2	8:VE:358:GLN:O	2.14	0.48
9:VL:48:ASN:ND2	65:s:157:GLY:O	2.41	0.48
9:VL:311:LEU:HD23	9:VL:342:VAL:HG21	1.96	0.48
9:VL:325:GLU:H	9:VL:325:GLU:CD	2.19	0.48
8:WG:262:TYR:HD1	8:WG:265:ILE:HD11	1.79	0.48
9:WJ:138:SER:O	9:WJ:145:SER:OG	2.29	0.48
9:WJ:173:PRO:HD3	9:WJ:205:GLU:HG2	1.95	0.48
8:WK:228:ASN:HA	8:WK:231:ILE:HD12	1.96	0.48
47:Y:474:LYS:HG3	47:Y:483:VAL:HG13	1.96	0.48
60:e:40:GLU:OE2	60:e:56:ASN:ND2	2.47	0.48
60:f:88:THR:HG22	60:f:89:PHE:H	1.79	0.48
46:o:243:ALA:O	46:o:247:GLN:HG3	2.14	0.48
3:2:98:LEU:HG	3:2:138:CYS:SG	2.54	0.47
7:A7:19:ILE:HG13	7:A7:22:LEU:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:76:ASP:O	8:AK:80:THR:OG1	2.30	0.47
8:AK:324:VAL:HG12	8:AK:326:LYS:HG2	1.96	0.47
9:AL:242:PHE:HB3	9:AL:356:ILE:HD12	1.96	0.47
9:AL:248:ALA:HA	9:AL:252:LYS:HD3	1.96	0.47
9:AL:283:ALA:HB2	9:KN:54:ALA:HA	1.95	0.47
12:AV:330:ASP:HA	12:AV:350:LYS:HB2	1.96	0.47
12:AW:370:TYR:HA	12:AW:374:ILE:HG12	1.96	0.47
13:Aa:217:ARG:NH1	8:CM:41:THR:OG1	2.47	0.47
13:Ab:222:TRP:CE2	13:Ab:224:ASP:HB2	2.49	0.47
7:Aw:120:PRO:HG3	9:O0:287:PRO:HB3	1.96	0.47
7:Aw:131:PHE:HB2	7:Aw:132:ARG:H	1.57	0.47
16:Ax:73:SER:OG	8:FG:214:ARG:NH1	2.37	0.47
17:B2:211:TYR:OH	44:ES:288:ASP:OD2	2.27	0.47
14:B7:220:SER:OG	8:FK:279:GLU:OE1	2.32	0.47
8:BA:316:CYS:HA	8:BA:352:LYS:HB3	1.95	0.47
9:BD:105:HIS:HD2	9:BD:106:TYR:CE1	2.31	0.47
9:BD:228:LEU:HD11	9:BD:273:LEU:HD11	1.95	0.47
8:BE:138:PHE:HE1	8:BE:169:PHE:HD2	1.62	0.47
9:BH:317:PHE:HE1	9:BH:330:MET:HE1	1.79	0.47
8:BK:234:ILE:HD13	8:BK:270:ALA:HB1	1.96	0.47
9:BL:199:THR:HG23	9:BL:265:PHE:HA	1.96	0.47
19:BO:212:LYS:HD2	19:BO:321:ILE:HD11	1.96	0.47
19:BP:408:GLN:NE2	39:Dk:92:GLU:OE1	2.47	0.47
19:BQ:164:ARG:HG3	19:BQ:213:MET:HE1	1.96	0.47
19:BQ:428:HIS:HA	19:BQ:431:LYS:HE3	1.95	0.47
21:BV:145:ASP:OD2	9:LJ:219:THR:OG1	2.30	0.47
22:BX:16:SER:OG	22:BX:17:TRP:N	2.46	0.47
14:Bc:282:LEU:HB2	14:Bc:305:THR:HG21	1.95	0.47
25:Bm:173:UNK:O	9:RH:320:ARG:NH2	2.46	0.47
26:Bq:109:ARG:NH1	9:LN:74:ASP:OD1	2.47	0.47
28:C2:382:ILE:HD13	28:C4:128:ILE:HD11	1.96	0.47
9:CD:306:ARG:HG2	9:CD:340:TYR:HE1	1.78	0.47
8:CG:255:PHE:HE1	8:CG:318:LEU:HD21	1.79	0.47
9:CJ:246:LEU:HD21	8:CK:179:THR:HG21	1.95	0.47
9:CJ:324:LYS:HD2	8:CK:221:ARG:HA	1.95	0.47
8:CK:328:VAL:O	8:CK:332:ILE:HG13	2.13	0.47
2:CU:39:ASP:OD1	2:CU:39:ASP:N	2.47	0.47
2:CY:27:ILE:H	2:CY:27:ILE:HD12	1.78	0.47
2:Ca:104:LEU:HB2	2:Ca:145:ILE:HD11	1.96	0.47
32:Cn:97:ARG:HH21	32:Cn:246:LEU:CD1	2.28	0.47
33:Cs:79:ASP:OD2	43:E4:127:TYR:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Cz:437:LEU:O	29:Cz:441:ARG:HG2	2.14	0.47
29:D3:218:LEU:HD21	29:D3:476:ARG:HH22	1.78	0.47
29:D3:397:THR:HG21	29:D6:280:ILE:HG22	1.95	0.47
8:DC:263:PRO:HD3	9:DD:396:HIS:CG	2.49	0.47
8:DG:381:THR:HG22	8:DG:383:ALA:N	2.25	0.47
9:DH:156:ARG:HG3	9:DH:195:ASN:HB3	1.96	0.47
9:DJ:167:PHE:HB3	9:DJ:202:ILE:HD11	1.95	0.47
29:DW:132:GLN:HE22	29:DW:315:ALA:N	2.12	0.47
35:Da:204:SER:O	35:Da:207:SER:OG	2.32	0.47
38:Dg:77:THR:OG1	38:Dg:78:ALA:N	2.47	0.47
43:E3:172:SER:OG	28:F4:118:GLU:OE2	2.28	0.47
29:EA:145:LEU:HD21	29:EA:270:CYS:HB3	1.96	0.47
9:EB:167:PHE:CE2	9:EB:233:MET:HB3	2.49	0.47
9:EB:347:ASN:ND2	8:EC:178:SER:O	2.47	0.47
8:EC:20:CYS:HB3	8:EC:24:TYR:HE1	1.79	0.47
44:EW:241:TYR:H	44:EZ:354:GLN:HE21	1.62	0.47
44:EZ:170:ASP:OD1	44:EZ:170:ASP:N	2.44	0.47
42:F:302:MET:HG2	42:F:305:TRP:CD1	2.47	0.47
28:F3:206:MET:SD	28:F3:464:ASN:ND2	2.87	0.47
9:FF:54:ALA:HB3	9:FF:58:LYS:HB3	1.96	0.47
8:FG:3:GLU:HA	8:FG:51:THR:HA	1.96	0.47
8:FI:281:ALA:HB1	8:FI:284:GLU:HB3	1.95	0.47
8:FK:434:GLU:HA	8:FK:437:VAL:HG12	1.95	0.47
8:FM:118:VAL:O	8:FM:122:ILE:HG12	2.15	0.47
45:G:280:SER:N	9:HL:355:ASP:OD2	2.47	0.47
9:GB:54:ALA:HA	9:HB:283:ALA:HB2	1.95	0.47
9:GD:87:PRO:HA	9:GD:90:PHE:HD2	1.79	0.47
9:GD:172:SER:OG	9:GD:175:VAL:O	2.32	0.47
9:GF:137:HIS:HE1	9:GF:166:THR:HB	1.78	0.47
9:GF:361:LEU:HD23	9:GF:364:SER:HB2	1.96	0.47
9:GJ:258:VAL:HG13	8:GK:407:TRP:HE1	1.79	0.47
9:HB:86:ARG:CZ	9:IB:282:ARG:HH22	2.26	0.47
9:HB:284:LEU:HD13	9:HB:362:LYS:HB3	1.96	0.47
8:IE:105:ARG:HG2	8:IE:411:GLU:HG2	1.95	0.47
8:JK:16:ILE:HD13	8:JK:231:ILE:HG21	1.96	0.47
8:JM:15:GLN:O	8:JM:228:ASN:ND2	2.47	0.47
8:JM:392:ASP:OD2	8:JM:422:ARG:NH1	2.46	0.47
9:JN:114:ASP:OD1	9:JN:114:ASP:N	2.47	0.47
8:KC:278:ALA:HA	8:KC:369:ALA:HB2	1.96	0.47
8:KE:3:GLU:HA	8:KE:51:THR:HA	1.95	0.47
8:KE:367:ASP:OD1	8:KE:367:ASP:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KJ:13:GLY:HA2	9:KJ:136:THR:HG22	1.96	0.47
8:KM:71:GLU:OE1	8:KM:73:THR:OG1	2.22	0.47
9:LD:65:LEU:HB3	9:LD:73:MET:HE2	1.96	0.47
8:LK:172:TYR:HB3	8:LK:205:ASP:HB3	1.96	0.47
9:LN:326:VAL:O	9:LN:330:MET:HG2	2.14	0.47
8:MM:54:SER:OG	8:MM:55:GLU:N	2.46	0.47
8:MM:215:ARG:HH12	8:MM:299:ALA:HB1	1.79	0.47
9:NH:323:MET:HG2	8:NI:224:TYR:CZ	2.49	0.47
8:NI:6:SER:HA	8:NI:136:LEU:HB2	1.96	0.47
8:NI:200:CYS:HA	8:NI:266:HIS:HB2	1.95	0.47
8:OA:313:MET:HE3	8:OA:313:MET:HB2	1.75	0.47
9:OB:285:THR:HG23	9:OB:287:PRO:HD2	1.96	0.47
9:OF:203:ASP:C	9:OF:204:ASN:HD22	2.21	0.47
8:OG:88:HIS:ND1	8:OG:90:GLU:OE2	2.47	0.47
8:OG:229:ARG:HD3	8:OG:363:VAL:HG21	1.96	0.47
9:OH:357:PRO:HB3	9:OH:363:MET:HA	1.96	0.47
9:PJ:170:VAL:HG21	9:PJ:377:LEU:HD11	1.94	0.47
9:QB:226:ASN:HA	9:QB:229:VAL:HG22	1.96	0.47
8:QE:12:ALA:HA	8:QE:15:GLN:NE2	2.28	0.47
9:QF:8:GLN:HE22	9:QF:136:THR:HB	1.78	0.47
9:QF:246:LEU:HD12	8:QG:11:GLN:HE22	1.79	0.47
9:QH:165:ASN:ND2	9:QH:200:TYR:OH	2.39	0.47
9:RB:138:SER:O	9:RB:145:SER:OG	2.22	0.47
9:RD:383:GLU:HA	9:RD:386:THR:HG22	1.96	0.47
8:RE:395:LEU:HD12	8:RE:398:MET:HB3	1.96	0.47
9:RH:67:ASP:OD1	9:RH:68:LEU:N	2.46	0.47
8:RM:72:PRO:O	8:RM:76:ASP:HB2	2.14	0.47
8:RM:98:ASP:OD1	8:RM:98:ASP:N	2.43	0.47
9:SB:5:VAL:HB	9:SB:133:PHE:HD1	1.79	0.47
8:SG:361:THR:O	8:SG:361:THR:OG1	2.31	0.47
9:SH:325:GLU:OE1	8:SI:221:ARG:HD3	2.14	0.47
9:TB:61:PRO:HD3	9:TB:84:ILE:HG22	1.96	0.47
9:TB:278:SER:O	9:TB:278:SER:OG	2.32	0.47
9:TL:36:TYR:OH	9:TL:40:SER:O	2.31	0.47
9:TL:88:ASP:OD1	9:TL:88:ASP:N	2.36	0.47
8:TM:284:GLU:OE1	8:TM:284:GLU:N	2.47	0.47
9:UB:291:GLN:O	9:UB:291:GLN:NE2	2.44	0.47
9:UH:49:VAL:HG11	9:UH:241:ARG:HG2	1.95	0.47
9:VD:203:ASP:OD1	9:VD:205:GLU:N	2.47	0.47
9:VD:373:ALA:O	9:VD:376:GLU:HG2	2.13	0.47
8:VG:286:LEU:O	8:VG:373:ARG:NH1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VL:216:LYS:HD2	9:VL:216:LYS:HA	1.67	0.47
9:WB:67:ASP:HB3	9:WB:73:MET:HE1	1.96	0.47
9:WB:260:PHE:CD2	9:WB:263:LEU:HD22	2.48	0.47
9:WD:164:MET:O	9:WD:196:THR:OG1	2.23	0.47
8:WE:119:LEU:HD11	8:WE:156:ARG:HG2	1.95	0.47
9:WH:12:CYS:HB2	9:WH:138:SER:HB2	1.96	0.47
9:WH:204:ASN:OD1	69:WH:501:GDP:N2	2.46	0.47
8:WK:395:LEU:HD23	8:WK:422:ARG:HD3	1.95	0.47
9:WL:290:THR:HG21	9:WL:329:GLN:HB3	1.94	0.47
56:XL:130:ASN:OD1	56:XL:130:ASN:N	2.45	0.47
59:b:524:ARG:NH1	59:b:530:GLU:OE2	2.47	0.47
59:d:515:ILE:HA	59:d:518:LYS:HB2	1.96	0.47
60:f:40:GLU:OE2	60:f:40:GLU:N	2.47	0.47
60:f:398:ASP:OD2	60:f:402:ARG:NH2	2.44	0.47
60:g:23:ILE:HD12	60:g:614:ILE:HB	1.95	0.47
61:h:94:LYS:NZ	61:h:95:ALA:O	2.36	0.47
58:q:133:LYS:HA	58:q:133:LYS:HD3	1.76	0.47
4:z:1381:ILE:O	4:z:1385:VAL:HG12	2.14	0.47
7:A3:25:SER:HA	8:PM:161:TYR:HE1	1.79	0.47
7:A7:188:THR:N	8:RC:116:ASP:OD2	2.47	0.47
9:AB:316:VAL:HG22	9:AB:352:ALA:HB3	1.96	0.47
8:AI:406:HIS:HA	8:AI:409:VAL:HG22	1.95	0.47
9:AJ:398:TYR:HD2	9:AJ:403:MET:HE1	1.78	0.47
8:AK:214:ARG:NH1	8:AK:220:GLU:OE1	2.47	0.47
9:AL:253:LEU:HB3	9:AL:257:MET:HE1	1.96	0.47
13:Ac:639:LEU:HG	13:Ac:676:TYR:HD2	1.79	0.47
13:Ad:442:TYR:OH	13:Ad:447:ASP:OD1	2.30	0.47
13:Ad:572:MET:HE1	13:Ad:575:LEU:HD12	1.96	0.47
15:Ar:19:PRO:HG2	15:Ar:46:LEU:HD12	1.95	0.47
16:At:204:TYR:HD2	9:FL:295:ASP:HB3	1.78	0.47
9:BB:258:VAL:HG13	8:BC:407:TRP:HE1	1.80	0.47
8:BE:213:CYS:HA	8:BE:217:LEU:HD12	1.96	0.47
9:BF:131:GLN:HE21	9:BF:250:LEU:HB2	1.78	0.47
19:BP:324:GLN:O	19:BP:328:ILE:HG12	2.13	0.47
28:C0:413:ARG:HB2	28:C9:293:THR:HG21	1.96	0.47
8:CC:111:GLY:O	8:CC:115:VAL:HB	2.15	0.47
8:CE:154:MET:SD	8:CE:194:THR:OG1	2.66	0.47
8:CK:82:THR:HG21	38:Df:27:PRO:HD3	1.95	0.47
8:CK:254:GLU:HG2	9:CL:98:GLY:HA2	1.95	0.47
9:CL:102:ALA:HB2	9:CL:403:MET:HE3	1.95	0.47
2:Ci:57:HIS:O	2:Ci:57:HIS:ND1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Cs:22:TYR:O	33:Cs:26:THR:HG23	2.15	0.47
33:Cu:231:ALA:O	33:Cu:235:LYS:HG3	2.14	0.47
33:Cu:297:ILE:HD13	33:Cu:360:GLN:HG3	1.95	0.47
33:Cu:355:LYS:HZ2	33:Cu:355:LYS:HG2	1.43	0.47
29:Cz:434:LYS:NZ	29:DS:259:ASP:OD1	2.40	0.47
8:DA:2:ARG:HA	8:DA:133:GLN:NE2	2.22	0.47
8:DC:316:CYS:HB3	8:DC:378:LEU:HB2	1.95	0.47
8:DE:69:ASP:OD1	8:DE:70:LEU:N	2.46	0.47
8:DG:240:ALA:HB1	8:DG:356:ASN:HD22	1.79	0.47
39:Di:77:GLU:C	39:Di:87:ARG:HH12	2.23	0.47
29:EA:410:LEU:HB3	29:EP:292:THR:HA	1.95	0.47
9:EB:54:ALA:HA	9:FB:284:LEU:HD22	1.96	0.47
9:EN:62:ARG:NH2	9:EN:124:ALA:HA	2.29	0.47
29:EQ:190:PRO:HA	29:EQ:193:VAL:HG22	1.96	0.47
8:FC:53:PHE:O	8:FC:64:ARG:NH1	2.48	0.47
8:GK:3:GLU:HA	8:GK:51:THR:HA	1.96	0.47
9:GN:172:SER:OG	9:GN:175:VAL:O	2.27	0.47
9:HF:166:THR:HG1	9:HF:199:THR:HG1	1.62	0.47
8:HG:56:THR:HA	8:IG:285:GLN:HB2	1.95	0.47
8:HG:255:PHE:HE1	8:HG:318:LEU:HD11	1.79	0.47
8:IG:2:ARG:NH1	8:IG:242:LEU:O	2.39	0.47
8:IG:310:GLY:HA3	8:IG:383:ALA:HB2	1.96	0.47
8:KC:166:LYS:NZ	8:KC:197:HIS:O	2.48	0.47
9:KF:147:MET:HB3	9:KF:147:MET:HE2	1.77	0.47
9:KF:260:PHE:HB2	9:KF:263:LEU:HD13	1.96	0.47
9:KH:46:ARG:HH21	8:KI:73:THR:HA	1.79	0.47
8:KI:168:GLU:HG3	8:KI:201:ALA:HA	1.96	0.47
8:KK:137:ILE:HG13	8:KK:154:MET:HE1	1.96	0.47
50:L1:37:ASP:H	50:L1:41:HIS:CD2	2.32	0.47
50:L1:66:TYR:HD2	8:WC:221:ARG:HG3	1.79	0.47
50:L1:89:GLU:O	50:L1:104:ARG:NH2	2.46	0.47
9:LB:219:THR:O	9:LB:219:THR:OG1	2.30	0.47
9:LB:322:SER:OG	9:LB:323:MET:N	2.47	0.47
9:LD:326:VAL:O	9:LD:330:MET:HG2	2.14	0.47
9:MB:200:TYR:HE2	9:MB:368:ILE:HD12	1.79	0.47
9:MD:80:PRO:HG2	62:i:226:ARG:HE	1.78	0.47
8:MI:346:TRP:HE1	9:MJ:391:ARG:HH11	1.61	0.47
9:MN:200:TYR:HB3	9:MN:268:PRO:HG3	1.95	0.47
9:NF:107:THR:HG21	9:NF:401:GLU:HG2	1.94	0.47
9:OB:193:VAL:HG12	9:OB:194:GLU:HG3	1.96	0.47
8:OC:88:HIS:HB2	8:OC:91:GLN:HG3	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OC:151:SER:O	8:OC:155:GLU:HB2	2.14	0.47
8:OC:290:GLU:OE1	8:OC:290:GLU:N	2.42	0.47
8:OC:381:THR:HG22	8:OC:383:ALA:H	1.79	0.47
9:OD:2:ARG:HG3	9:OD:240:LEU:HD12	1.96	0.47
9:OD:244:GLY:HA2	9:OD:355:ASP:HB2	1.97	0.47
8:OG:79:ARG:O	8:OG:84:ARG:NE	2.47	0.47
8:OG:167:LEU:HD23	8:OG:167:LEU:HA	1.77	0.47
8:OI:186:ASN:OD1	8:OI:408:TYR:OH	2.29	0.47
8:OI:195:LEU:HD11	8:OI:428:LEU:HD22	1.96	0.47
9:PH:322:SER:HA	9:PH:323:MET:HE2	1.95	0.47
9:PH:347:ASN:O	8:PI:181:VAL:HG12	2.14	0.47
9:PL:5:VAL:HG22	9:PL:62:ARG:HD3	1.96	0.47
9:QD:120:VAL:O	9:QD:124:ALA:HB2	2.13	0.47
8:QG:79:ARG:O	8:QG:84:ARG:HG3	2.13	0.47
9:QJ:344:TRP:CD1	9:QJ:344:TRP:H	2.32	0.47
8:QK:103:TYR:CE2	8:QK:189:LEU:HB3	2.49	0.47
9:QL:216:LYS:HG2	9:QL:275:SER:HB2	1.96	0.47
8:QM:269:LEU:HD11	8:QM:301:GLN:HE22	1.79	0.47
9:RB:27:GLU:C	9:RB:359:ARG:HH21	2.23	0.47
9:RD:161:ASP:OD1	9:RD:161:ASP:N	2.45	0.47
8:RI:28:HIS:HD2	8:RI:53:PHE:HE2	1.62	0.47
9:RJ:83:GLN:O	9:SJ:281:TYR:OH	2.25	0.47
9:RL:21:TRP:CE3	9:RL:61:PRO:HB3	2.49	0.47
9:RL:248:ALA:HA	9:RL:252:LYS:HD3	1.96	0.47
9:SD:77:ARG:HD3	9:SD:90:PHE:HE2	1.79	0.47
9:SH:117:LEU:O	9:SH:121:ARG:NH1	2.45	0.47
9:TD:237:THR:HG23	9:TD:241:ARG:HE	1.79	0.47
8:TE:325:PRO:HG2	9:TF:222:TYR:HD2	1.79	0.47
8:TE:419:SER:HA	8:TE:422:ARG:HG2	1.96	0.47
8:TI:257:THR:HA	9:TJ:397:TRP:HZ3	1.79	0.47
9:TL:204:ASN:HA	9:TL:207:LEU:HD23	1.95	0.47
8:TM:55:GLU:OE1	8:TM:61:HIS:NE2	2.42	0.47
9:UD:66:VAL:HG21	9:UD:147:MET:HE2	1.96	0.47
8:UE:172:TYR:OH	8:UE:388:TRP:NE1	2.46	0.47
9:UF:103:LYS:NZ	9:UF:401:GLU:OE1	2.47	0.47
9:UF:216:LYS:HD2	9:UF:275:SER:HB2	1.96	0.47
8:VG:193:THR:HG23	8:VG:194:THR:HG23	1.94	0.47
8:VG:258:ASN:HD21	9:VH:178:THR:HG23	1.79	0.47
9:VH:323:MET:HE2	9:VH:323:MET:HB3	1.74	0.47
9:VJ:314:ALA:HB3	9:VJ:368:ILE:HB	1.95	0.47
8:VK:19:ALA:O	8:VK:22:GLU:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VL:238:THR:OG1	9:VL:318:ARG:NH1	2.46	0.47
8:WK:9:VAL:HA	8:WK:68:VAL:HG23	1.96	0.47
8:WK:272:TYR:HE1	8:WK:374:ALA:HB1	1.78	0.47
56:XL:115:LYS:HB2	56:XL:118:ILE:HG22	1.96	0.47
56:XM:178:PRO:O	56:XM:178:PRO:HD2	2.13	0.47
63:k:149:TRP:O	63:k:153:ILE:HD12	2.14	0.47
5:A:24:MET:HA	5:A:24:MET:HE2	1.96	0.47
8:AC:338:LYS:HE3	65:t:71:ASP:HB3	1.97	0.47
9:AH:240:LEU:HD21	9:AH:249:ASP:HB2	1.96	0.47
9:AH:328:GLU:HA	9:AH:331:LEU:HB3	1.95	0.47
9:AL:20:PHE:CD2	9:AL:233:MET:HE3	2.49	0.47
13:Ab:219:PHE:HB2	13:Ab:341:ASP:HB3	1.96	0.47
7:Ay:186:ARG:HB2	8:FC:116:ASP:OD2	2.14	0.47
18:B6:163:LYS:HA	18:B6:163:LYS:HD2	1.65	0.47
9:BD:267:MET:HG2	9:BD:301:ALA:HB3	1.97	0.47
8:BI:295:CYS:HB3	8:BI:377:MET:SD	2.55	0.47
9:BJ:207:LEU:HD13	9:BJ:225:LEU:HB3	1.95	0.47
8:BK:247:ALA:HB3	8:BK:355:ILE:HB	1.95	0.47
9:BL:237:THR:O	9:BL:241:ARG:NE	2.37	0.47
19:BQ:352:MET:HB2	54:R:140:HIS:CD2	2.49	0.47
22:BW:100:ASP:O	22:BW:105:ARG:HG3	2.13	0.47
25:Bl:107:UNK:HA	9:SD:320:ARG:HH22	1.79	0.47
8:CC:209:ILE:HA	8:CC:212:ILE:HG12	1.96	0.47
9:CD:11:GLN:NE2	69:CD:501:GDP:O2A	2.40	0.47
9:CD:419:VAL:O	9:CD:423:GLN:NE2	2.47	0.47
8:CE:80:THR:HG22	48:J:98:LYS:HE2	1.96	0.47
30:CW:360:MET:O	30:CW:364:GLN:HG2	2.14	0.47
30:CW:433:THR:OG1	30:CW:436:THR:O	2.31	0.47
2:CY:46:SER:H	2:CY:111:LEU:HG	1.79	0.47
2:Cf:111:LEU:HD22	2:Cf:141:LEU:HB2	1.96	0.47
33:Cq:410:THR:OG1	28:F3:239:LYS:NZ	2.36	0.47
29:Cz:265:PHE:HE2	29:Cz:269:LYS:HE2	1.78	0.47
34:D:75:LEU:O	34:D:79:ILE:HG12	2.14	0.47
29:D1:161:TYR:OH	29:D1:165:ARG:NH1	2.46	0.47
29:D1:202:GLU:O	29:EP:255:ARG:NH1	2.47	0.47
29:D3:247:ARG:HD2	29:D3:247:ARG:HA	1.70	0.47
8:DA:75:VAL:HG22	8:DA:92:LEU:HD21	1.96	0.47
9:DD:47:ILE:HG23	9:DD:51:TYR:HB2	1.96	0.47
8:DE:305:CYS:SG	8:DE:306:ASP:N	2.86	0.47
8:DG:349:THR:OG1	8:DG:350:GLY:N	2.47	0.47
9:DH:318:ARG:HG3	9:DH:354:CYS:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DM:320:ARG:NH2	8:DM:356:ASN:HD21	2.12	0.47
8:DM:402:ARG:NE	8:DM:405:VAL:HG11	2.29	0.47
29:DQ:318:ILE:HA	29:DQ:321:ARG:HH11	1.79	0.47
36:Dd:155:ASN:HD21	9:WN:279:GLN:HE22	1.62	0.47
8:EE:47:ASP:N	8:EE:47:ASP:OD1	2.47	0.47
8:EE:313:MET:SD	8:EE:380:ASN:HB3	2.54	0.47
9:EN:47:ILE:H	9:EN:47:ILE:HD12	1.79	0.47
9:FB:8:GLN:O	9:FB:66:VAL:N	2.46	0.47
9:FB:164:MET:O	9:FB:196:THR:OG1	2.32	0.47
8:FC:288:VAL:HG21	8:FC:323:VAL:HG23	1.96	0.47
8:FC:325:PRO:HB2	9:FD:222:TYR:HE1	1.79	0.47
9:FD:207:LEU:HD13	9:FD:225:LEU:HB3	1.95	0.47
9:FH:1:MET:HE3	8:FI:96:LYS:HD3	1.95	0.47
8:FI:69:ASP:CG	8:FI:71:GLU:H	2.22	0.47
8:FI:88:HIS:HD2	8:GI:283:HIS:HB2	1.79	0.47
8:FI:318:LEU:HB2	8:FI:376:CYS:CB	2.43	0.47
8:FI:425:LEU:HD12	8:FI:425:LEU:HA	1.73	0.47
8:FK:271:THR:HB	8:FK:377:MET:HB3	1.95	0.47
8:FM:274:PRO:HG3	8:FM:374:ALA:HA	1.95	0.47
9:GB:52:ASN:N	9:GB:60:VAL:O	2.42	0.47
9:GJ:100:ASN:HD21	9:GJ:103:LYS:HE2	1.78	0.47
8:HG:238:ILE:HD11	8:HG:378:LEU:HD21	1.95	0.47
47:I:270:ASP:N	47:I:270:ASP:OD1	2.47	0.47
47:I:522:GLN:CD	47:I:522:GLN:H	2.21	0.47
9:ID:270:PHE:O	9:ID:298:ASN:ND2	2.41	0.47
8:IE:329:ASN:HD21	9:IF:175:VAL:HG21	1.79	0.47
9:IF:122:LYS:O	9:IF:122:LYS:NZ	2.35	0.47
9:IJ:122:LYS:NZ	1:V:32:SER:O	2.43	0.47
9:IL:170:VAL:HG21	9:IL:377:LEU:HD21	1.95	0.47
9:IN:187:LEU:HD11	9:IN:408:PHE:CE1	2.49	0.47
9:JF:336:LYS:HB3	51:N:16:ILE:HG21	1.97	0.47
9:KB:247:ASN:O	9:KB:252:LYS:NZ	2.39	0.47
9:KJ:1:MET:HE3	9:KJ:1:MET:HB2	1.59	0.47
8:KK:98:ASP:OD2	8:KK:98:ASP:N	2.44	0.47
9:KL:156:ARG:NH2	9:KL:197:ASP:OD2	2.41	0.47
8:LC:286:LEU:O	8:LC:373:ARG:NE	2.47	0.47
8:LC:352:LYS:HA	9:LD:177:ASP:O	2.14	0.47
8:LC:437:VAL:O	9:LD:391:ARG:NH1	2.47	0.47
9:LJ:78:SER:O	9:LJ:78:SER:OG	2.33	0.47
8:MK:326:LYS:HE3	9:ML:212:PHE:HZ	1.79	0.47
9:ML:219:THR:O	9:ML:219:THR:OG1	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MM:141:PHE:HB2	8:MM:173:PRO:HD3	1.97	0.47
8:MM:408:TYR:HB3	8:MM:413:MET:HE3	1.96	0.47
9:ND:406:MET:HA	9:ND:409:THR:HG22	1.96	0.47
8:NI:79:ARG:HH21	8:NI:92:LEU:HB2	1.78	0.47
8:NI:339:ARG:NH2	58:Z:133:LYS:O	2.48	0.47
9:NJ:113:VAL:HA	9:NJ:116:VAL:HG12	1.96	0.47
9:NL:213:ARG:HE	9:NL:297:LYS:HG2	1.80	0.47
9:OD:173:PRO:HD2	9:OD:205:GLU:HG3	1.95	0.47
8:OE:90:GLU:OE1	8:OE:90:GLU:N	2.39	0.47
8:OG:239:THR:O	8:OG:243:ARG:NH1	2.47	0.47
8:OG:329:ASN:HB3	9:OH:175:VAL:HG11	1.95	0.47
8:OG:417:GLU:HA	8:OG:420:GLU:HG3	1.97	0.47
8:OK:236:SER:O	8:OK:243:ARG:NH2	2.48	0.47
9:PB:256:ASN:OD1	8:PC:181:VAL:HG22	2.14	0.47
8:PE:98:ASP:N	8:PE:98:ASP:OD1	2.46	0.47
9:QB:19:LYS:HD3	9:QB:227:HIS:CG	2.49	0.47
9:QD:50:TYR:OH	9:QD:237:THR:HG21	2.14	0.47
9:QF:139:LEU:HA	9:QF:145:SER:HB2	1.95	0.47
9:QH:66:VAL:HA	9:QH:91:VAL:HG23	1.95	0.47
9:QH:170:VAL:HG11	9:QH:377:LEU:HD11	1.96	0.47
9:QJ:255:VAL:HG21	8:QK:101:ASN:HB3	1.96	0.47
8:QM:70:LEU:HG	8:QM:145:THR:OG1	2.14	0.47
8:RA:9:VAL:HG22	8:RA:146:GLY:HA2	1.96	0.47
9:RF:291:GLN:NE2	9:RF:292:GLN:HG2	2.29	0.47
9:RF:378:PHE:HD2	9:RF:415:MET:HE1	1.79	0.47
8:RG:430:LYS:NZ	8:RG:433:GLU:OE1	2.37	0.47
9:RJ:334:GLN:HE22	9:RJ:348:ASN:H	1.62	0.47
8:RK:183:GLU:HA	8:RK:186:ASN:HD22	1.80	0.47
8:TC:1:MET:HB3	8:TC:2:ARG:HD3	1.94	0.47
8:TC:36:MET:HE1	8:TC:61:HIS:CE1	2.50	0.47
8:TG:241:SER:OG	8:TG:250:VAL:O	2.32	0.47
8:TK:406:HIS:HA	8:TK:409:VAL:HG22	1.96	0.47
9:TL:222:TYR:O	9:TL:226:ASN:ND2	2.47	0.47
8:UC:209:ILE:CD1	8:UC:302:MET:HE1	2.44	0.47
9:UD:383:GLU:HA	9:UD:386:THR:HG22	1.95	0.47
9:UH:94:GLN:OE1	55:W:83:ARG:NH2	2.48	0.47
8:UI:2:ARG:HB3	8:UI:133:GLN:HB2	1.96	0.47
8:UK:217:LEU:HD13	8:UK:277:SER:HB2	1.95	0.47
9:VB:2:ARG:NH2	9:VB:130:LEU:O	2.48	0.47
9:VD:153:SER:OG	9:VD:191:GLN:OE1	2.32	0.47
9:VJ:236:VAL:HG13	9:VJ:237:THR:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VL:347:ASN:ND2	8:VM:178:SER:O	2.47	0.47
9:WB:260:PHE:HD2	9:WB:263:LEU:HD22	1.79	0.47
8:WC:71:GLU:HB3	8:WC:98:ASP:HB3	1.95	0.47
9:WF:172:SER:HB3	9:WF:175:VAL:O	2.14	0.47
9:WF:380:ARG:HA	9:WF:383:GLU:HG3	1.97	0.47
8:WG:278:ALA:HA	8:WG:369:ALA:HB2	1.96	0.47
8:WI:195:LEU:HD11	8:WI:264:ARG:HE	1.80	0.47
9:WL:326:VAL:O	9:WL:330:MET:HB2	2.14	0.47
56:XH:85:LYS:HB2	56:XH:159:ASN:HB3	1.96	0.47
47:Y:345:TYR:HB2	47:Y:367:ILE:HB	1.97	0.47
57:YH:184:GLU:OE1	57:YH:184:GLU:N	2.40	0.47
60:f:312:THR:OG1	60:f:314:GLU:O	2.22	0.47
63:l:136:LYS:HD2	63:l:142:ILE:HG23	1.97	0.47
66:v:286:TRP:HA	66:v:289:GLN:HE21	1.80	0.47
4:z:1472:PHE:O	4:z:1476:GLU:HG2	2.14	0.47
2:0A:42:ARG:NH1	2:0A:43:PRO:O	2.47	0.47
2:0Y:130:GLU:HA	2:0Y:134:HIS:HB2	1.95	0.47
2:0i:31:GLU:OE1	2:0i:135:TYR:OH	2.32	0.47
7:A4:217:GLY:O	8:QI:123:ARG:NE	2.47	0.47
8:AE:402:ARG:NH2	56:XK:52:THR:O	2.48	0.47
9:AF:46:ARG:HB2	9:AF:241:ARG:HA	1.96	0.47
8:AI:191:THR:HG23	8:AI:425:LEU:HD21	1.96	0.47
9:AL:20:PHE:HE2	9:AL:233:MET:HG2	1.77	0.47
13:Ab:234:GLU:OE2	13:Ab:234:GLU:N	2.47	0.47
13:Ac:161:LYS:O	13:Ac:165:THR:HG23	2.14	0.47
13:Ad:529:SER:HA	13:Ad:587:THR:HG21	1.95	0.47
16:At:239:GLN:HA	9:FJ:332:ASN:HB3	1.97	0.47
9:BB:167:PHE:HE2	9:BB:200:TYR:CD2	2.33	0.47
8:BK:10:GLY:HA2	8:BK:145:THR:HG23	1.96	0.47
9:BL:217:LEU:HB3	47:Y:140:ASN:HD21	1.80	0.47
8:BM:319:TYR:HD2	8:BM:323:VAL:HG11	1.78	0.47
14:BZ:250:LYS:HD2	14:BZ:250:LYS:HA	1.66	0.47
27:Bs:333:TYR:HB3	9:HH:276:ARG:HH22	1.79	0.47
28:C0:441:ALA:HA	28:C9:120:LEU:HD21	1.95	0.47
28:C2:128:ILE:HD11	28:C3:382:ILE:HD13	1.96	0.47
28:C2:236:TYR:HE1	28:C2:324:ASP:HB3	1.79	0.47
28:C5:454:THR:HG22	29:DT:44:GLY:HA3	1.97	0.47
8:CE:12:ALA:O	8:CE:16:ILE:HD12	2.15	0.47
2:CU:17:LYS:NZ	2:CU:18:ILE:HD13	2.30	0.47
2:CX:44:ILE:HD13	2:CX:138:VAL:HB	1.95	0.47
2:Cd:57:HIS:O	2:Cd:58:CYS:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cd:123:VAL:HG22	2:Cd:131:ALA:HB1	1.96	0.47
2:Ch:122:VAL:HG13	2:Ch:139:VAL:HG22	1.97	0.47
32:Cm:198:ILE:HD11	33:Cw:413:ARG:HE	1.79	0.47
33:Cr:228:HIS:O	33:Cr:232:GLU:HG2	2.15	0.47
34:D:91:TRP:HZ2	9:GJ:359:ARG:HA	1.79	0.47
29:D1:120:THR:OG1	29:D1:121:GLY:N	2.48	0.47
29:D5:124:MET:HE1	29:D7:380:LEU:HD13	1.97	0.47
8:DA:243:ARG:HB3	8:DA:244:PHE:CD2	2.50	0.47
8:DC:63:PRO:O	8:DC:91:GLN:NE2	2.42	0.47
8:DC:136:LEU:HB3	8:DC:138:PHE:CE1	2.48	0.47
9:DD:316:VAL:HG23	9:DD:352:ALA:HB3	1.96	0.47
8:DG:241:SER:OG	8:DG:250:VAL:O	2.33	0.47
8:DI:273:ALA:HB1	8:DI:294:ALA:HB3	1.96	0.47
8:EC:200:CYS:HA	8:EC:266:HIS:HB2	1.97	0.47
9:EF:113:VAL:HG11	9:EF:154:LYS:HE3	1.97	0.47
9:EL:219:THR:O	9:EL:219:THR:OG1	2.29	0.47
9:EL:375:GLN:HB2	9:EL:419:VAL:HG13	1.96	0.47
9:EN:272:PRO:HG3	9:EN:364:SER:HA	1.96	0.47
29:EP:353:GLU:OE2	29:EP:464:THR:HG23	2.14	0.47
44:EV:107:LEU:HD11	44:EV:225:ASP:HB3	1.96	0.47
9:FD:282:ARG:NH1	9:FD:292:GLN:OE1	2.46	0.47
8:FK:204:VAL:HA	8:FK:303:VAL:HG22	1.96	0.47
9:FL:257:MET:HE3	9:FL:257:MET:HA	1.95	0.47
9:HD:260:PHE:HE2	9:HD:425:TYR:HD2	1.63	0.47
9:HF:211:CYS:HA	9:HF:215:LEU:HB2	1.96	0.47
8:HI:241:SER:OG	8:HI:250:VAL:O	2.28	0.47
8:HM:251:ASP:OD1	8:HM:251:ASP:N	2.44	0.47
9:IB:7:LEU:HB3	9:IB:135:LEU:HD12	1.96	0.47
9:IB:223:GLY:O	9:IB:227:HIS:HB2	2.14	0.47
9:IH:112:LEU:HB3	9:IH:147:MET:HE1	1.95	0.47
9:IH:210:ILE:HD11	9:IH:298:ASN:HA	1.96	0.47
9:IN:67:ASP:OD2	9:IN:68:LEU:N	2.46	0.47
9:IN:265:PHE:HE2	9:IN:418:LEU:HD11	1.79	0.47
9:JD:290:THR:HG21	9:JD:329:GLN:HB3	1.97	0.47
8:JK:102:ASN:HB3	8:JK:105:ARG:HG2	1.96	0.47
9:JL:315:ALA:HB3	9:JL:330:MET:HE1	1.97	0.47
9:JL:325:GLU:OE2	9:JL:325:GLU:N	2.41	0.47
49:K1:22:GLU:HA	49:K1:25:LEU:HB2	1.97	0.47
9:KD:215:LEU:HD21	9:KD:273:LEU:HD22	1.95	0.47
9:KH:247:ASN:ND2	8:KI:71:GLU:OE2	2.45	0.47
9:KH:327:ASP:HB3	8:KI:177:VAL:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KM:90:GLU:N	8:KM:90:GLU:OE1	2.47	0.47
8:ME:15:GLN:O	8:ME:228:ASN:ND2	2.47	0.47
8:MI:140:SER:OG	67:MI:501:GTP:O2A	2.33	0.47
8:MI:346:TRP:HH2	8:MI:435:VAL:HG13	1.79	0.47
9:MJ:172:SER:OG	9:MJ:205:GLU:OE2	2.24	0.47
9:MJ:271:ALA:HB2	9:MJ:293:MET:HG3	1.96	0.47
9:MN:398:TYR:HB3	9:MN:403:MET:HE2	1.97	0.47
51:N:38:SER:OG	51:N:39:ALA:N	2.48	0.47
9:NF:323:MET:HA	9:NF:326:VAL:HG22	1.96	0.47
8:OC:267:PHE:HE2	8:OC:428:LEU:HD11	1.79	0.47
8:PE:319:TYR:HB3	8:PE:323:VAL:HG11	1.95	0.47
9:PF:73:MET:O	9:PF:77:ARG:NE	2.47	0.47
9:PJ:113:VAL:HG11	9:PJ:150:LEU:HD13	1.96	0.47
9:PJ:156:ARG:NE	9:PJ:195:ASN:O	2.45	0.47
9:PL:325:GLU:OE1	9:PL:325:GLU:N	2.41	0.47
8:PM:64:ARG:NH1	8:PM:129:CYS:SG	2.88	0.47
9:QB:354:CYS:SG	9:QB:355:ASP:N	2.87	0.47
8:QI:209:ILE:HG13	8:QI:227:LEU:HD22	1.95	0.47
9:QL:142:GLY:N	69:QL:501:GDP:O2B	2.47	0.47
9:RB:300:MET:SD	9:RB:300:MET:N	2.78	0.47
8:RK:231:ILE:O	8:RK:235:VAL:HG12	2.14	0.47
9:RL:256:ASN:HB2	8:RM:181:VAL:HG22	1.96	0.47
54:S:197:LYS:HA	54:S:197:LYS:HD3	1.74	0.47
9:SB:290:THR:HA	9:SB:293:MET:HB2	1.96	0.47
8:SC:16:ILE:HD13	8:SC:228:ASN:HA	1.96	0.47
8:SC:212:ILE:HD11	8:SC:300:ASN:HA	1.96	0.47
9:SD:167:PHE:HE2	9:SD:202:ILE:HD11	1.78	0.47
9:SD:379:LYS:O	9:SD:383:GLU:HG2	2.15	0.47
9:SJ:320:ARG:HE	9:SJ:320:ARG:HB2	1.56	0.47
8:TC:255:PHE:HB2	8:TC:259:LEU:HD13	1.95	0.47
8:TG:260:VAL:HG13	9:TH:397:TRP:HZ2	1.79	0.47
9:TH:135:LEU:HD23	9:TH:152:ILE:HD11	1.96	0.47
9:TH:273:LEU:O	9:TH:292:GLN:NE2	2.48	0.47
8:TM:90:GLU:HG3	8:TM:121:ARG:HD3	1.95	0.47
8:TM:327:ASP:OD1	8:TM:327:ASP:N	2.46	0.47
9:UB:218:THR:HG23	9:UB:219:THR:HG22	1.96	0.47
8:UI:58:ALA:HB1	59:b:365:LYS:HD3	1.97	0.47
9:UN:112:LEU:HD12	9:UN:115:SER:HB3	1.96	0.47
8:VE:60:LYS:NZ	8:WE:283:HIS:CE1	2.82	0.47
8:VI:238:ILE:HG12	8:VI:378:LEU:HD11	1.96	0.47
9:VJ:237:THR:OG1	9:VJ:241:ARG:NH1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VL:252:LYS:HG3	9:VL:350:LYS:HE3	1.96	0.47
8:VM:102:ASN:OD1	8:VM:104:ALA:N	2.41	0.47
8:WI:352:LYS:HD2	8:WI:353:VAL:N	2.29	0.47
9:WJ:86:ARG:HG2	9:WJ:88:ASP:H	1.78	0.47
56:XH:26:ASP:HB2	56:XH:63:ALA:HA	1.95	0.47
56:XL:40:ASN:OD1	56:XL:40:ASN:N	2.41	0.47
56:XM:164:ARG:HH11	56:XM:164:ARG:HG2	1.79	0.47
59:c:236:LYS:HA	59:c:236:LYS:HD3	1.63	0.47
60:f:213:SER:HB2	60:f:259:ILE:HG22	1.96	0.47
58:q:59:LEU:HD21	66:w:313:LEU:HD21	1.96	0.47
2:0A:60:ASN:OD1	2:0A:62:THR:OG1	2.31	0.47
2:0E:127:SER:O	8:RK:85:GLN:NE2	2.47	0.47
2:0a:44:ILE:HD12	2:0a:53:TYR:OH	2.14	0.47
5:A:30:HIS:CD2	59:c:292:GLN:HG2	2.49	0.47
7:A4:165:GLY:HA3	9:RL:306:ARG:HE	1.80	0.47
7:A7:185:TYR:N	8:SC:308:ARG:HH12	2.13	0.47
9:AJ:326:VAL:O	9:AJ:330:MET:HG2	2.15	0.47
11:AU:375:LYS:HA	11:AU:375:LYS:HE3	1.97	0.47
12:AV:141:GLN:O	28:C7:151:ASN:ND2	2.47	0.47
13:Ab:140:VAL:HG23	13:Ab:172:ASN:HB2	1.96	0.47
13:Ac:448:THR:HG21	13:Ac:469:ARG:HE	1.79	0.47
16:Ax:156:PRO:HB3	9:EB:128:ASP:HA	1.96	0.47
7:Ay:211:ASP:OD1	7:Ay:211:ASP:N	2.47	0.47
8:BA:65:ALA:O	8:BA:91:GLN:HG3	2.14	0.47
8:BA:254:GLU:O	8:BA:258:ASN:ND2	2.48	0.47
9:BB:156:ARG:HH22	9:BB:164:MET:HB3	1.79	0.47
9:BH:260:PHE:HE2	8:BI:403:ALA:HA	1.79	0.47
19:BP:346:LEU:HD13	19:BR:25:THR:HG21	1.96	0.47
27:Br:33:ARG:HA	27:Br:36:ASN:HD22	1.80	0.47
27:Br:118:SER:HB2	27:Br:121:LEU:HD12	1.96	0.47
28:C2:389:LYS:HD2	28:C4:135:THR:HG21	1.96	0.47
8:CA:60:LYS:HD3	8:DA:283:HIS:HA	1.95	0.47
8:CA:71:GLU:HG3	8:CA:98:ASP:HB3	1.96	0.47
8:CA:437:VAL:O	9:CB:391:ARG:NH1	2.43	0.47
8:CC:297:GLU:OE1	8:CC:298:PRO:HD2	2.14	0.47
8:CG:68:VAL:HG12	8:CG:93:ILE:HB	1.95	0.47
8:CG:188:ILE:HG13	8:CG:395:LEU:HD13	1.95	0.47
8:CK:245:ASP:OD1	8:CK:245:ASP:N	2.45	0.47
9:CL:410:GLU:O	9:CL:414:ASN:ND2	2.48	0.47
2:CV:12:VAL:HG21	2:CV:80:LEU:HD11	1.94	0.47
2:CV:19:PHE:HZ	2:CV:26:PHE:CE2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:133:ASN:O	2:CX:134:HIS:ND1	2.48	0.47
2:Ca:127:SER:OG	8:PE:84:ARG:NH1	2.47	0.47
2:Cb:35:GLU:OE1	2:Cb:40:LYS:HE2	2.14	0.47
2:Cf:47:ILE:HD12	2:Cf:47:ILE:H	1.79	0.47
29:D2:159:LEU:HD12	29:D2:307:ILE:HD11	1.96	0.47
29:D5:283:PHE:O	29:D7:396:GLN:NE2	2.48	0.47
8:DC:166:LYS:N	8:DC:199:ASP:OD2	2.45	0.47
8:DC:228:ASN:ND2	67:DC:501:GTP:O6	2.44	0.47
8:DC:332:ILE:O	8:DC:336:LYS:HG3	2.15	0.47
9:DD:21:TRP:HA	9:DD:24:ILE:HB	1.96	0.47
9:DH:176:SER:OG	9:DH:181:GLU:OE2	2.31	0.47
8:DM:200:CYS:SG	8:DM:201:ALA:N	2.87	0.47
29:DR:242:GLN:O	29:DR:246:ASN:ND2	2.47	0.47
29:DX:191:LEU:HB2	29:DX:225:ILE:HG21	1.97	0.47
38:Df:122:ASP:HB2	38:Df:123:PRO:HD3	1.97	0.47
9:ED:247:ASN:ND2	8:EE:71:GLU:OE2	2.36	0.47
8:EE:9:VAL:HG21	8:EE:150:ALA:HB2	1.95	0.47
8:EE:216:ASN:O	8:EE:280:LYS:NZ	2.45	0.47
9:EF:40:SER:OG	9:EF:43:GLN:NE2	2.46	0.47
9:EH:173:PRO:HB3	9:EH:380:ARG:CD	2.45	0.47
9:EH:222:TYR:O	9:EH:226:ASN:ND2	2.48	0.47
9:EJ:21:TRP:CZ3	9:EJ:61:PRO:HB3	2.48	0.47
9:EJ:191:GLN:OE1	9:EJ:414:ASN:ND2	2.45	0.47
44:EW:307:ARG:HB3	44:EW:307:ARG:NH1	2.29	0.47
8:FG:203:MET:HE2	8:FG:203:MET:HB2	1.67	0.47
8:FM:262:TYR:HB2	8:FM:265:ILE:HD12	1.96	0.47
9:FN:67:ASP:OD2	9:FN:68:LEU:N	2.45	0.47
9:GB:351:THR:OG1	8:GC:179:THR:OG1	2.29	0.47
8:GC:205:ASP:HB3	8:GC:303:VAL:HA	1.97	0.47
9:GL:173:PRO:HG3	9:GL:380:ARG:NH1	2.30	0.47
9:HB:375:GLN:HB2	9:HB:419:VAL:HG23	1.95	0.47
9:HD:249:ASP:OD1	9:HD:252:LYS:HG3	2.14	0.47
8:HE:81:GLY:O	8:HE:84:ARG:NH2	2.47	0.47
9:HF:167:PHE:CE1	9:HF:233:MET:HG3	2.49	0.47
8:HM:348:PRO:HG2	9:HN:384:GLN:HG3	1.95	0.47
8:IE:324:VAL:HG23	8:IE:327:ASP:H	1.80	0.47
8:IG:295:CYS:HB3	8:IG:377:MET:HE3	1.96	0.47
8:IK:130:THR:OG1	8:IK:131:GLY:N	2.47	0.47
8:IK:168:GLU:HB2	8:IK:201:ALA:HA	1.97	0.47
8:JC:395:LEU:HD22	8:JC:422:ARG:HD3	1.97	0.47
8:JM:367:ASP:N	8:JM:367:ASP:OD1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KJ:202:ILE:HD13	9:KJ:229:VAL:HG22	1.95	0.47
8:KM:353:VAL:HB	9:KN:177:ASP:HB3	1.97	0.47
8:KO:36:MET:SD	8:KO:61:HIS:NE2	2.87	0.47
9:LF:152:ILE:HG22	9:LF:195:ASN:HB3	1.97	0.47
8:LM:265:ILE:HG21	8:LM:313:MET:HE1	1.96	0.47
9:MD:309:ARG:NH1	9:MD:339:SER:O	2.48	0.47
8:MI:130:THR:OG1	8:MI:131:GLY:N	2.46	0.47
9:ML:48:ASN:O	9:ML:62:ARG:NH1	2.47	0.47
8:NA:122:ILE:HD11	8:NA:157:LEU:HD11	1.95	0.47
8:NA:292:THR:HG21	8:NA:331:ALA:HB1	1.96	0.47
9:ND:240:LEU:HD11	9:ND:250:LEU:HD22	1.97	0.47
9:NF:28:HIS:CE1	9:NF:241:ARG:HD2	2.50	0.47
9:O0:305:PRO:HB3	9:O0:310:TYR:HE1	1.79	0.47
8:OA:70:LEU:HA	8:OA:95:GLY:HA3	1.97	0.47
9:OD:186:THR:HA	9:OD:189:VAL:HG12	1.95	0.47
8:OE:11:GLN:NE2	67:OE:501:GTP:O1B	2.47	0.47
9:OF:232:THR:HG21	9:OF:268:PRO:HB2	1.95	0.47
9:OH:63:ALA:O	9:OH:89:ASN:ND2	2.45	0.47
9:OJ:404:ASP:OD1	9:OJ:406:MET:N	2.48	0.47
8:PC:8:HIS:HA	8:PC:138:PHE:HB2	1.97	0.47
8:PC:145:THR:N	67:PC:501:GTP:O2G	2.38	0.47
9:PD:145:SER:O	9:PD:149:THR:OG1	2.25	0.47
8:PG:209:ILE:HB	8:PG:227:LEU:HD13	1.96	0.47
8:PK:233:GLN:HG3	8:PK:272:TYR:CZ	2.49	0.47
8:QC:19:ALA:HB3	8:QC:228:ASN:HB3	1.96	0.47
8:QG:97:GLU:N	8:QG:97:GLU:OE2	2.47	0.47
9:QJ:379:LYS:HD2	9:QJ:379:LYS:HA	1.63	0.47
8:RE:106:GLY:HA2	8:RE:110:ILE:HG12	1.95	0.47
8:RG:228:ASN:HA	8:RG:231:ILE:HD12	1.95	0.47
9:RH:319:GLY:N	9:RH:354:CYS:O	2.48	0.47
8:RI:296:PHE:HE1	8:RI:377:MET:HE1	1.79	0.47
8:SC:319:TYR:CD1	8:SC:375:VAL:HG22	2.48	0.47
9:SD:16:ILE:HD11	9:SD:229:VAL:HG11	1.97	0.47
8:SM:138:PHE:HZ	8:SM:235:VAL:HG21	1.79	0.47
9:TH:228:LEU:HD11	9:TH:273:LEU:HD11	1.96	0.47
8:TI:31:GLN:HG3	8:TI:37:PRO:HD3	1.95	0.47
9:TL:100:ASN:HB2	9:TL:103:LYS:HB3	1.96	0.47
9:UD:364:SER:OG	9:UD:365:ALA:N	2.47	0.47
8:UE:222:PRO:HB2	8:UE:226:ASN:HB2	1.95	0.47
9:UF:336:LYS:HA	9:UF:336:LYS:HD2	1.80	0.47
8:UI:88:HIS:NE2	8:UI:90:GLU:OE1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VC:119:LEU:HD11	8:VC:156:ARG:HD3	1.95	0.47
9:VD:279:GLN:NE2	9:VD:280:GLN:OE1	2.47	0.47
8:VE:30:ILE:HG21	8:VE:53:PHE:HE2	1.79	0.47
8:VE:138:PHE:HE1	8:VE:169:PHE:CD1	2.28	0.47
9:VF:255:VAL:HG21	8:VG:101:ASN:HB3	1.95	0.47
8:VG:217:LEU:HD11	8:VG:368:LEU:HD12	1.97	0.47
8:VG:405:VAL:HA	8:VG:408:TYR:HB2	1.96	0.47
8:VK:104:ALA:HA	8:VK:413:MET:CE	2.41	0.47
8:VK:298:PRO:HG3	8:VK:308:ARG:HH21	1.79	0.47
9:WB:136:THR:HG22	9:WB:167:PHE:HB2	1.95	0.47
8:WC:76:ASP:O	8:WC:80:THR:HG22	2.14	0.47
8:WI:306:ASP:OD1	8:WI:306:ASP:N	2.44	0.47
47:X:422:TYR:HB2	47:X:440:LEU:HB3	1.95	0.47
57:YI:161:ASN:HB3	57:YI:164:VAL:HG22	1.97	0.47
63:k:54:SER:HB2	63:k:56:GLU:HG2	1.97	0.47
66:u:284:LYS:HD2	66:u:386:GLN:HE21	1.80	0.47
2:0i:60:ASN:O	2:0i:64:ARG:HG3	2.13	0.47
9:AB:286:VAL:HB	9:AB:325:GLU:HG2	1.95	0.47
8:AC:141:PHE:O	8:AC:187:SER:OG	2.28	0.47
8:AC:306:ASP:OD1	65:t:82:HIS:N	2.40	0.47
8:AE:262:TYR:CE2	8:AE:435:VAL:HG21	2.50	0.47
9:AJ:117:LEU:HD21	9:AJ:154:LYS:HB3	1.97	0.47
9:AJ:289:LEU:HD11	9:AJ:363:MET:HG3	1.95	0.47
8:AK:211:ASP:OD2	8:AK:215:ARG:NH1	2.48	0.47
8:AK:328:VAL:HG21	8:AK:355:ILE:HD11	1.96	0.47
12:AV:244:ILE:HB	12:AV:311:MET:HG2	1.97	0.47
16:At:231:GLY:O	16:At:236:ARG:NH2	2.45	0.47
16:Ax:147:PRO:HA	8:EC:116:ASP:OD1	2.13	0.47
7:Ay:200:TYR:HE2	9:GB:287:PRO:HB3	1.80	0.47
8:BC:23:LEU:O	8:BC:27:GLU:HG2	2.14	0.47
8:BC:111:GLY:O	8:BC:115:VAL:HB	2.14	0.47
9:BD:113:VAL:HA	9:BD:116:VAL:HG12	1.96	0.47
9:BH:260:PHE:CE2	8:BI:403:ALA:HA	2.50	0.47
9:BL:229:VAL:HA	9:BL:300:MET:HE1	1.96	0.47
19:BP:431:LYS:HB3	19:BP:431:LYS:HE2	1.66	0.47
19:BR:465:LEU:HB3	9:ML:402:GLY:HA2	1.97	0.47
20:BS:360:GLU:HB2	20:BS:362:TRP:CZ3	2.50	0.47
28:C4:462:LYS:NZ	28:C6:99:TRP:HE1	2.13	0.47
9:CH:275:SER:HB2	9:CH:278:SER:HB3	1.97	0.47
14:CO:23:PHE:HZ	9:DF:53:GLU:HG3	1.79	0.47
30:CW:290:TRP:CZ2	8:IG:79:ARG:HD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ca:8:SER:HB3	2:Ca:80:LEU:HD21	1.96	0.47
2:Cg:104:LEU:HD11	2:Cg:145:ILE:HD11	1.96	0.47
33:Cq:27:ASN:OD1	33:Cq:30:ARG:NH2	2.48	0.47
29:D5:280:ILE:HD12	29:D5:280:ILE:HA	1.82	0.47
8:DA:9:VAL:HG12	8:DA:146:GLY:HA2	1.96	0.47
8:DI:332:ILE:HG13	9:DJ:175:VAL:HG11	1.97	0.47
8:DM:1:MET:O	8:DM:133:GLN:NE2	2.47	0.47
8:EE:11:GLN:HG3	8:EE:74:VAL:HG21	1.96	0.47
8:EE:306:ASP:HB3	8:EE:309:HIS:ND1	2.30	0.47
9:EH:210:ILE:O	9:EH:214:THR:OG1	2.31	0.47
9:EL:372:THR:HG21	9:EL:426:GLN:HB2	1.95	0.47
8:EM:70:LEU:HA	8:EM:95:GLY:HA3	1.97	0.47
44:EU:388:LEU:O	44:EU:392:LYS:HG2	2.15	0.47
9:FB:73:MET:SD	9:FB:73:MET:N	2.88	0.47
9:FD:276:ARG:NH2	47:X:432:GLU:O	2.48	0.47
9:FH:287:PRO:O	9:FH:291:GLN:HG3	2.15	0.47
9:FH:325:GLU:HA	9:FH:328:GLU:HG3	1.97	0.47
9:FJ:273:LEU:O	9:FJ:292:GLN:NE2	2.46	0.47
9:FL:167:PHE:CE2	9:FL:233:MET:HB2	2.49	0.47
9:GD:334:GLN:NE2	9:GD:348:ASN:OD1	2.48	0.47
8:GE:132:LEU:HB3	8:GE:164:LYS:HZ2	1.79	0.47
9:GF:248:ALA:HA	9:GF:252:LYS:HD3	1.96	0.47
9:GJ:355:ASP:OD1	9:GJ:355:ASP:N	2.40	0.47
46:H:544:ARG:HH12	8:TM:373:ARG:HH12	1.62	0.47
9:HJ:143:THR:N	69:HJ:501:GDP:O1B	2.39	0.47
8:HK:188:ILE:HG21	8:HK:395:LEU:HD13	1.95	0.47
8:HM:138:PHE:HZ	8:HM:235:VAL:HG11	1.79	0.47
8:HO:79:ARG:HH12	8:HO:94:THR:HG21	1.79	0.47
8:HO:214:ARG:HH21	8:HO:215:ARG:HD3	1.78	0.47
9:IF:271:ALA:HB2	9:IF:293:MET:HE2	1.96	0.47
8:IG:292:THR:HG1	8:IG:319:TYR:HH	1.62	0.47
9:IN:220:PRO:HA	9:IN:224:ASP:OD1	2.14	0.47
9:JF:212:PHE:HD2	9:JF:213:ARG:HG3	1.79	0.47
8:JM:150:ALA:O	8:JM:154:MET:HG2	2.15	0.47
8:KC:377:MET:HE3	8:KC:379:SER:HB3	1.97	0.47
9:KF:248:ALA:HA	9:KF:252:LYS:HE2	1.97	0.47
9:MB:309:ARG:HH11	9:MB:309:ARG:HG2	1.79	0.47
9:MB:330:MET:HA	9:MB:333:VAL:HG12	1.96	0.47
8:ME:188:ILE:HD13	8:ME:425:LEU:HD13	1.96	0.47
9:MF:404:ASP:OD1	9:MF:404:ASP:N	2.45	0.47
9:MH:344:TRP:CG	8:MI:401:LYS:HZ1	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ML:114:ASP:OD2	9:ML:115:SER:N	2.47	0.47
8:NA:258:ASN:HB2	9:NB:179:VAL:HG22	1.95	0.47
8:NC:56:THR:OG1	8:NC:57:GLY:N	2.47	0.47
8:NC:186:ASN:HA	8:NC:189:LEU:HG	1.96	0.47
9:NF:210:ILE:O	9:NF:214:THR:OG1	2.32	0.47
8:NI:175:PRO:HB3	8:NI:390:ARG:HD2	1.96	0.47
8:NK:237:SER:HB2	8:NK:320:ARG:HD2	1.96	0.47
9:NL:47:ILE:HG21	9:NL:59:TYR:HE2	1.80	0.47
9:NL:142:GLY:N	69:NL:501:GDP:O2B	2.47	0.47
9:OB:237:THR:OG1	9:OB:241:ARG:NH1	2.46	0.47
8:OE:107:HIS:CE1	8:OE:152:LEU:HB2	2.49	0.47
8:OG:121:ARG:HD2	8:OG:124:LYS:NZ	2.29	0.47
8:OK:68:VAL:HG12	8:OK:93:ILE:HB	1.95	0.47
8:PA:346:TRP:HZ3	9:PB:394:PHE:HE2	1.63	0.47
9:PB:207:LEU:HD21	9:PB:229:VAL:HG23	1.95	0.47
8:PC:350:GLY:H	9:PD:179:VAL:HG12	1.80	0.47
9:PD:207:LEU:HD21	9:PD:300:MET:HE3	1.97	0.47
8:PE:286:LEU:O	8:PE:373:ARG:NH1	2.48	0.47
8:PG:33:ASP:HA	8:PG:85:GLN:HG2	1.95	0.47
9:PH:406:MET:SD	9:PH:406:MET:N	2.88	0.47
9:PJ:42:LEU:HD23	9:PJ:356:ILE:HD11	1.97	0.47
9:PJ:131:GLN:HE22	9:PJ:250:LEU:H	1.62	0.47
8:QA:213:CYS:HA	8:QA:217:LEU:HB2	1.97	0.47
9:QD:14:ASN:HA	9:QD:65:LEU:HD12	1.97	0.47
8:QE:31:GLN:HG2	8:QE:35:GLN:H	1.80	0.47
8:QG:319:TYR:CE1	8:QG:375:VAL:HG22	2.50	0.47
8:QI:76:ASP:HA	8:QI:79:ARG:HG2	1.97	0.47
9:QL:285:THR:OG1	9:QL:286:VAL:N	2.47	0.47
8:RG:339:ARG:O	8:RG:342:GLN:NE2	2.48	0.47
8:RG:405:VAL:HA	8:RG:408:TYR:HB2	1.96	0.47
8:RI:157:LEU:HD13	8:RI:166:LYS:HD3	1.96	0.47
8:RI:291:ILE:HD13	8:RI:375:VAL:HG13	1.96	0.47
8:RM:402:ARG:NH2	8:RM:415:GLU:HG3	2.28	0.47
9:SB:270:PHE:CD1	9:SB:273:LEU:HG	2.50	0.47
8:SC:311:LYS:HG2	8:SC:342:GLN:HG3	1.97	0.47
8:SE:241:SER:OG	8:SE:250:VAL:O	2.28	0.47
9:SJ:62:ARG:NH2	9:SJ:127:CYS:SG	2.82	0.47
9:SJ:311:LEU:HD23	9:SJ:312:THR:HG23	1.96	0.47
9:SJ:314:ALA:HB3	9:SJ:368:ILE:HB	1.95	0.47
9:SJ:406:MET:SD	9:SJ:407:GLU:HG3	2.54	0.47
9:SL:202:ILE:HD11	9:SL:207:LEU:HD21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TB:315:ALA:HB1	9:TB:317:PHE:HE1	1.80	0.47
8:TK:319:TYR:HD2	8:TK:323:VAL:HG11	1.80	0.47
9:TL:200:TYR:HD2	9:TL:268:PRO:HG3	1.80	0.47
9:UL:272:PRO:HG3	9:UL:364:SER:HA	1.96	0.47
8:VC:331:ALA:O	8:VC:334:THR:OG1	2.32	0.47
9:VD:330:MET:SD	9:VD:351:THR:OG1	2.72	0.47
8:VE:312:TYR:CE1	8:VE:341:ILE:HG23	2.49	0.47
9:VF:113:VAL:HA	9:VF:116:VAL:HG12	1.96	0.47
8:VG:241:SER:OG	8:VG:250:VAL:N	2.36	0.47
8:VK:199:ASP:OD1	8:VK:199:ASP:N	2.43	0.47
9:VL:63:ALA:O	9:VL:89:ASN:ND2	2.47	0.47
9:VL:268:PRO:HG2	9:VL:300:MET:HG3	1.96	0.47
8:WC:26:LEU:HD21	8:WC:364:PRO:HD3	1.97	0.47
8:WE:367:ASP:OD1	8:WE:367:ASP:N	2.45	0.47
9:WH:265:PHE:HB3	9:WH:374:ILE:HD13	1.97	0.47
56:XG:141:ARG:NH1	56:XG:147:ASN:HB3	2.18	0.47
47:Y:118:ARG:NE	47:Y:135:GLU:OE2	2.39	0.47
57:YL:38:VAL:HA	57:YL:52:VAL:HG23	1.96	0.47
59:a:127:GLN:O	59:a:131:LYS:HG3	2.14	0.47
60:g:33:LEU:O	60:g:300:THR:OG1	2.33	0.47
2:0E:76:GLU:O	2:0E:80:LEU:HB2	2.14	0.47
2:0E:146:LEU:HA	2:0E:149:MET:HE2	1.97	0.47
2:0Y:39:ASP:OD2	2:0Y:42:ARG:NH2	2.48	0.47
2:0Y:93:VAL:HA	2:0Y:96:ASN:HD21	1.78	0.47
2:0c:12:VAL:HG13	2:0c:73:ILE:HD11	1.96	0.47
2:0e:100:LYS:HB2	2:0e:148:LEU:HD21	1.97	0.47
2:0i:11:SER:OG	2:0i:15:LYS:NZ	2.48	0.47
2:0i:92:PRO:HD2	2:0i:93:VAL:N	2.24	0.47
7:A2:13:HIS:HE1	9:PB:150:LEU:HD21	1.80	0.47
7:A3:172:PHE:HA	9:QF:213:ARG:HH22	1.79	0.47
7:A6:248:PRO:HD2	9:RL:92:PHE:HD1	1.79	0.47
8:AA:140:SER:OG	67:AA:501:GTP:O2A	2.30	0.47
8:AA:244:PHE:HB2	8:AA:356:ASN:HD21	1.80	0.47
8:AE:251:ASP:OD1	8:AE:252:LEU:N	2.48	0.47
9:AF:40:SER:HB3	9:AF:43:GLN:HG3	1.96	0.47
9:AL:429:THR:OG1	9:AL:431:GLU:O	2.29	0.47
10:AR:80:THR:O	10:AR:84:ARG:NH1	2.46	0.47
12:AW:73:LEU:HD23	12:AW:73:LEU:H	1.79	0.47
13:Aa:44:SER:OG	13:Aa:97:ASP:OD2	2.27	0.47
13:Aa:222:TRP:CE2	13:Aa:335:ARG:HG3	2.50	0.47
13:Aa:645:LYS:HA	13:Aa:645:LYS:HD2	1.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:480:PHE:CE1	9:EJ:360:GLY:HA3	2.50	0.47
13:Ac:465:MET:HG3	9:EF:78:SER:HB2	1.96	0.47
13:Ac:573:MET:HE3	13:Ac:578:GLY:HA2	1.96	0.47
7:Av:155:LYS:NZ	8:OK:214:ARG:HE	2.13	0.47
16:Ax:142:PRO:HB3	8:FC:338:LYS:HB3	1.95	0.47
7:Ay:145:PRO:HB2	7:Ay:153:ILE:HG13	1.97	0.47
17:B0:47:LEU:N	8:JG:76:ASP:OD1	2.42	0.47
8:BA:88:HIS:CE1	8:BA:90:GLU:HG2	2.50	0.47
8:BA:239:THR:O	8:BA:243:ARG:NH1	2.48	0.47
9:BD:113:VAL:O	9:BD:117:LEU:HB2	2.15	0.47
8:BG:319:TYR:HB3	8:BG:323:VAL:HG11	1.96	0.47
8:BI:117:LEU:O	8:BI:121:ARG:HG2	2.15	0.47
9:BL:280:GLN:HG3	47:Y:108:PRO:HD3	1.97	0.47
9:BL:319:GLY:HA2	9:BL:357:PRO:HG3	1.96	0.47
8:BM:124:LYS:HE3	8:BM:124:LYS:HB2	1.60	0.47
19:BP:163:ARG:HG2	54:R:284:PRO:HB3	1.96	0.47
19:BQ:483:ASP:OD1	19:BQ:483:ASP:N	2.47	0.47
21:BV:125:ARG:NH2	21:BV:128:ASP:OD1	2.44	0.47
14:Bc:195:GLU:HA	33:Cv:423:LYS:NZ	2.29	0.47
21:Bi:377:ARG:O	9:LN:221:THR:OG1	2.29	0.47
21:Bk:237:GLU:CD	26:Bq:123:ARG:HH22	2.22	0.47
26:Bu:194:ARG:HH22	26:Bu:209:ARG:HG2	1.80	0.47
28:C0:391:ALA:HA	28:C0:394:LYS:HG3	1.97	0.47
28:C4:327:ASN:ND2	33:Cu:241:GLU:OE1	2.39	0.47
28:C7:86:ASN:ND2	28:F3:306:ASP:OD1	2.44	0.47
28:C9:431:ILE:HD13	43:E1:16:GLY:HA3	1.97	0.47
9:CB:219:THR:O	9:CB:219:THR:OG1	2.26	0.47
8:CC:15:GLN:HG2	8:CC:228:ASN:ND2	2.30	0.47
8:CC:27:GLU:OE2	8:CC:320:ARG:NH2	2.48	0.47
8:CE:100:ALA:HB3	8:CE:105:ARG:HD2	1.96	0.47
9:CH:138:SER:OG	69:CH:501:GDP:O1B	2.33	0.47
9:CJ:83:GLN:O	9:DJ:281:TYR:OH	2.24	0.47
9:CJ:122:LYS:HB2	9:CJ:122:LYS:HE3	1.68	0.47
9:CJ:327:ASP:HB3	8:CK:177:VAL:HG21	1.95	0.47
8:CK:438:ASP:O	9:CL:391:ARG:NH1	2.47	0.47
2:Cc:22:GLN:NE2	9:OH:39:ASP:OD1	2.42	0.47
2:Ce:44:ILE:H	2:Ce:44:ILE:HD12	1.78	0.47
2:Ch:24:PHE:HA	2:Ch:27:ILE:HG12	1.97	0.47
2:Ci:129:ASP:N	8:RC:279:GLU:OE2	2.45	0.47
2:Ck:21:GLN:NE2	9:SD:40:SER:HA	2.30	0.47
32:Cm:7:GLN:N	32:Cm:7:GLN:OE1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Cr:342:VAL:O	33:Cr:346:GLU:HG2	2.15	0.47
33:Cu:319:GLU:OE2	44:EX:208:LYS:NZ	2.48	0.47
33:Cv:167:GLU:OE2	33:Cv:171:ARG:NH2	2.47	0.47
29:D8:388:LYS:HE3	29:D9:134:THR:HG21	1.96	0.47
8:DA:363:VAL:HG23	8:DA:366:GLY:HA3	1.96	0.47
9:DB:52:ASN:N	9:DB:60:VAL:O	2.48	0.47
9:DB:346:PRO:HB3	8:DC:394:LYS:HD2	1.96	0.47
9:DD:192:LEU:HD21	9:DD:199:THR:HG21	1.96	0.47
9:DD:193:VAL:HG11	9:DD:418:LEU:HD21	1.96	0.47
9:DF:113:VAL:HA	9:DF:116:VAL:HG22	1.97	0.47
9:DH:205:GLU:O	9:DH:208:TYR:N	2.48	0.47
9:DJ:51:TYR:HB3	9:DJ:59:TYR:HB3	1.96	0.47
9:DJ:67:ASP:HA	9:DJ:143:THR:HG21	1.97	0.47
8:DK:132:LEU:HD13	8:DK:164:LYS:HE2	1.96	0.47
29:DS:157:SER:O	29:DS:161:TYR:HB3	2.14	0.47
29:DT:349:ARG:NH2	29:DT:352:GLU:OE1	2.48	0.47
42:E:752:VAL:HG22	8:IC:32:PRO:HG3	1.96	0.47
9:EB:113:VAL:HG11	9:EB:154:LYS:HZ2	1.79	0.47
8:EC:11:GLN:O	8:EC:15:GLN:HG3	2.14	0.47
8:EC:245:ASP:OD1	8:EC:245:ASP:N	2.46	0.47
8:EC:319:TYR:CE1	8:EC:375:VAL:HG13	2.49	0.47
9:ED:27:GLU:C	9:ED:359:ARG:HH12	2.21	0.47
9:EF:217:LEU:HD13	9:EF:220:PRO:HB3	1.97	0.47
9:EH:173:PRO:HB3	9:EH:380:ARG:HD3	1.96	0.47
8:EI:70:LEU:HD12	8:EI:145:THR:HG22	1.97	0.47
9:EJ:68:LEU:HD12	9:EJ:97:ALA:HB2	1.95	0.47
8:EM:1:MET:O	8:EM:130:THR:OG1	2.32	0.47
9:EN:135:LEU:HB3	9:EN:166:THR:HG22	1.96	0.47
9:EN:142:GLY:N	69:EN:501:GDP:O2B	2.47	0.47
29:EP:212:ASP:OD2	29:EP:212:ASP:N	2.46	0.47
29:EQ:390:CYS:HA	29:EQ:393:LYS:HG2	1.96	0.47
44:ES:232:ASN:HD22	47:I:51:ARG:NH2	2.12	0.47
44:EU:152:VAL:HG21	44:EU:179:GLU:HG2	1.95	0.47
44:EV:249:GLU:OE1	28:F2:54:THR:OG1	2.32	0.47
44:EV:294:ARG:HD2	44:EV:294:ARG:HA	1.71	0.47
44:EW:159:ARG:NH2	44:EW:170:ASP:OD1	2.48	0.47
28:F2:310:ARG:NH1	28:F2:314:GLU:OE2	2.48	0.47
8:FE:261:PRO:O	9:FF:396:HIS:HE1	1.98	0.47
8:FE:319:TYR:HD2	8:FE:323:VAL:HG21	1.79	0.47
8:FG:306:ASP:OD2	8:FG:309:HIS:NE2	2.48	0.47
8:FI:90:GLU:HG3	8:GI:280:LYS:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:285:THR:O	9:FJ:288:GLU:HG2	2.14	0.47
8:FK:313:MET:HB2	8:FK:380:ASN:HB3	1.96	0.47
8:FK:319:TYR:HB2	8:FK:355:ILE:HD13	1.97	0.47
45:G:525:ARG:NH1	45:G:525:ARG:HA	2.30	0.47
8:GC:272:TYR:HD1	8:GC:275:VAL:HG13	1.78	0.47
9:GH:364:SER:OG	9:GH:365:ALA:N	2.48	0.47
8:GI:147:SER:HB2	8:GI:190:THR:HB	1.95	0.47
9:GL:46:ARG:NH2	8:GM:76:ASP:OD2	2.44	0.47
9:GL:173:PRO:HB3	9:GL:380:ARG:HD3	1.97	0.47
9:HB:83:GLN:O	9:IB:281:TYR:OH	2.27	0.47
9:HF:1:MET:HG2	9:HF:46:ARG:HH21	1.79	0.47
9:HF:138:SER:O	9:HF:145:SER:OG	2.30	0.47
8:HG:22:GLU:OE2	64:ke:78:GLY:N	2.39	0.47
8:HI:79:ARG:NH2	8:HI:94:THR:OG1	2.48	0.47
8:HK:274:PRO:HG3	8:HK:291:ILE:HG21	1.97	0.47
8:HK:301:GLN:HG3	8:HK:303:VAL:HG12	1.96	0.47
9:HL:417:ASP:O	9:HL:421:GLU:HG2	2.14	0.47
9:HN:207:LEU:HB3	9:HN:225:LEU:HG	1.96	0.47
47:I:337:ILE:HG22	47:I:338:LEU:HG	1.97	0.47
9:ID:375:GLN:O	9:ID:379:LYS:HG3	2.14	0.47
8:IG:265:ILE:HG21	8:IG:313:MET:HE1	1.96	0.47
9:IH:25:SER:HB3	9:IH:30:ILE:HB	1.97	0.47
9:IH:67:ASP:OD2	9:IH:68:LEU:N	2.48	0.47
9:IH:113:VAL:HG23	9:IH:151:LEU:HD23	1.96	0.47
9:IN:130:LEU:HB3	9:IN:162:ARG:HE	1.80	0.47
9:IN:347:ASN:OD1	9:IN:347:ASN:N	2.48	0.47
9:JB:3:GLU:OE2	9:JB:127:CYS:HB2	2.15	0.47
8:JC:15:GLN:O	8:JC:228:ASN:ND2	2.48	0.47
9:JF:136:THR:HG22	9:JF:167:PHE:HB2	1.95	0.47
8:JI:211:ASP:OD2	8:JI:215:ARG:NH2	2.40	0.47
8:JM:292:THR:HG1	8:JM:319:TYR:HH	1.56	0.47
9:JN:172:SER:OG	9:JN:175:VAL:O	2.33	0.47
9:KJ:278:SER:HG	9:KJ:282:ARG:HH21	1.61	0.47
9:KL:290:THR:HG21	9:KL:329:GLN:HB3	1.96	0.47
8:KO:156:ARG:HA	8:KO:156:ARG:HD2	1.76	0.47
50:L1:59:VAL:HG12	50:L1:60:PHE:HD1	1.80	0.47
50:L1:62:ARG:HG2	9:VB:55:THR:HG21	1.97	0.47
8:LC:320:ARG:HD3	8:LC:360:PRO:HG3	1.96	0.47
8:LC:349:THR:OG1	8:LC:350:GLY:N	2.48	0.47
8:LE:250:VAL:HG23	8:LE:254:GLU:HB2	1.97	0.47
8:LG:406:HIS:HA	8:LG:409:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LH:39:ASP:OD1	9:LH:39:ASP:N	2.46	0.47
8:LM:339:ARG:O	8:LM:342:GLN:HG3	2.13	0.47
9:LN:330:MET:HB3	9:LN:349:VAL:HG11	1.97	0.47
9:MB:116:VAL:HG11	9:MB:151:LEU:HD11	1.97	0.47
9:MB:219:THR:O	9:MB:219:THR:OG1	2.30	0.47
9:MD:192:LEU:O	9:MD:196:THR:OG1	2.30	0.47
8:ME:102:ASN:ND2	8:ME:407:TRP:O	2.38	0.47
8:MI:207:GLU:HA	8:MI:210:TYR:HD2	1.80	0.47
8:NA:425:LEU:HD23	8:NA:425:LEU:HA	1.80	0.47
9:ND:253:LEU:O	9:ND:256:ASN:N	2.48	0.47
8:NG:334:THR:O	8:NG:337:THR:OG1	2.31	0.47
9:NH:256:ASN:HA	8:NI:404:PHE:HE1	1.78	0.47
8:NK:9:VAL:HG12	8:NK:145:THR:HG22	1.95	0.47
9:OD:327:ASP:N	9:OD:327:ASP:OD1	2.48	0.47
8:OE:31:GLN:HE21	8:OE:37:PRO:HG3	1.79	0.47
9:OF:203:ASP:OD2	9:OF:302:ALA:N	2.41	0.47
8:OG:26:LEU:HD21	8:OG:364:PRO:HD3	1.95	0.47
9:OJ:164:MET:HB3	9:OJ:197:ASP:H	1.80	0.47
9:OJ:280:GLN:HG3	9:OJ:281:TYR:CD1	2.50	0.47
9:OL:21:TRP:CZ3	9:OL:24:ILE:HD11	2.49	0.47
9:OL:101:TRP:CD1	9:OL:187:LEU:HD23	2.49	0.47
9:PB:226:ASN:ND2	69:PB:501:GDP:O6	2.42	0.47
9:PB:324:LYS:HG2	8:PC:222:PRO:HD2	1.96	0.47
8:PC:229:ARG:HH11	8:PC:229:ARG:HA	1.79	0.47
8:PC:306:ASP:OD1	8:PC:306:ASP:N	2.47	0.47
8:PC:346:TRP:CD1	9:PD:391:ARG:HD2	2.49	0.47
9:PD:347:ASN:OD1	8:PE:178:SER:OG	2.21	0.47
8:PG:151:SER:HA	8:PG:154:MET:HG2	1.97	0.47
8:PG:259:LEU:HD21	8:PG:378:LEU:HB3	1.96	0.47
9:PJ:307:HIS:O	9:PJ:426:GLN:NE2	2.47	0.47
9:QD:204:ASN:ND2	69:QD:501:GDP:N3	2.59	0.47
9:QF:156:ARG:NH1	9:QF:195:ASN:O	2.48	0.47
9:QH:190:HIS:ND1	9:QH:414:ASN:OD1	2.45	0.47
8:QI:56:THR:HG23	8:QI:58:ALA:H	1.80	0.47
8:QI:60:LYS:NZ	8:QI:85:GLN:O	2.47	0.47
9:QJ:101:TRP:CD1	9:QJ:146:GLY:HA2	2.50	0.47
8:QK:385:ALA:HA	8:QK:388:TRP:HD1	1.79	0.47
8:QM:77:GLU:O	8:QM:81:GLY:N	2.43	0.47
9:RB:49:VAL:HG11	9:RB:241:ARG:HB3	1.96	0.47
9:RD:15:GLN:HG3	9:RD:226:ASN:HD21	1.80	0.47
8:RE:27:GLU:OE1	8:RE:243:ARG:NH1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RE:202:PHE:HZ	8:RE:378:LEU:HD13	1.80	0.47
8:RE:213:CYS:HA	8:RE:217:LEU:HB2	1.97	0.47
9:RF:135:LEU:HB3	9:RF:166:THR:HG22	1.97	0.47
9:RF:229:VAL:HG12	9:RF:233:MET:HE2	1.95	0.47
8:RM:390:ARG:HA	8:RM:393:HIS:CE1	2.50	0.47
9:SB:283:ALA:O	9:SB:285:THR:N	2.48	0.47
9:SB:372:THR:HA	9:SB:422:TYR:CE1	2.50	0.47
8:SC:2:ARG:NH1	8:SC:251:ASP:OD1	2.48	0.47
8:SC:298:PRO:HA	8:SC:301:GLN:NE2	2.29	0.47
9:SF:330:MET:HB3	9:SF:349:VAL:HG11	1.96	0.47
9:SJ:132:GLY:HA3	9:SJ:163:ILE:HG22	1.96	0.47
9:SJ:324:LYS:HA	8:SK:210:TYR:HE2	1.80	0.47
9:SL:39:ASP:OD1	9:SL:39:ASP:N	2.46	0.47
8:SM:2:ARG:HB3	8:SM:242:LEU:HB2	1.96	0.47
8:SM:88:HIS:CD2	8:SM:89:PRO:HD2	2.50	0.47
8:SM:104:ALA:HB2	8:SM:413:MET:HE2	1.96	0.47
9:TB:147:MET:HE2	9:TB:147:MET:HA	1.97	0.47
9:TD:130:LEU:HB3	9:TD:162:ARG:HH11	1.78	0.47
8:TE:185:TYR:O	8:TE:189:LEU:HD12	2.15	0.47
9:TH:401:GLU:N	9:TH:401:GLU:OE1	2.47	0.47
8:TI:33:ASP:OD2	8:TI:35:GLN:HG3	2.15	0.47
8:TI:121:ARG:O	8:TI:125:LEU:HD12	2.14	0.47
8:TK:320:ARG:HH12	8:TK:360:PRO:N	2.13	0.47
9:TL:248:ALA:HA	9:TL:252:LYS:HG3	1.95	0.47
8:TM:328:VAL:HG11	8:TM:353:VAL:HG11	1.96	0.47
9:UB:21:TRP:CZ3	9:UB:61:PRO:HB3	2.50	0.47
9:UB:293:MET:HE3	9:UB:367:PHE:HB2	1.97	0.47
8:UE:11:GLN:NE2	67:UE:501:GTP:O3G	2.40	0.47
8:UI:62:VAL:HG11	8:VI:283:HIS:HA	1.96	0.47
8:VC:304:LYS:HD2	8:VC:304:LYS:N	2.30	0.47
8:VC:359:PRO:HA	8:VC:360:PRO:HD3	1.82	0.47
9:VD:273:LEU:O	9:VD:292:GLN:NE2	2.35	0.47
8:VE:98:ASP:OD1	8:VE:98:ASP:N	2.48	0.47
8:VE:192:HIS:NE2	8:VE:420:GLU:OE1	2.48	0.47
8:VE:259:LEU:HD11	8:VE:316:CYS:HB2	1.96	0.47
9:VF:239:CYS:HB2	9:VF:248:ALA:H	1.79	0.47
8:VG:115:VAL:O	8:VG:119:LEU:HB2	2.15	0.47
8:VG:251:ASP:OD1	8:VG:253:THR:OG1	2.28	0.47
9:VH:49:VAL:HG11	9:VH:241:ARG:HB3	1.97	0.47
9:VH:188:SER:O	9:VH:192:LEU:HD12	2.15	0.47
9:VH:237:THR:OG1	9:VH:241:ARG:NH1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VI:97:GLU:OE2	8:VI:105:ARG:NH2	2.43	0.47
8:VK:9:VAL:HG11	8:VK:150:ALA:HB2	1.95	0.47
8:VK:207:GLU:HA	8:VK:210:TYR:HD2	1.79	0.47
8:VK:306:ASP:HB2	8:VK:308:ARG:HG2	1.97	0.47
9:VL:134:GLN:HB2	9:VL:167:PHE:HE2	1.79	0.47
9:VN:309:ARG:NH2	9:VN:339:SER:O	2.47	0.47
9:WB:116:VAL:HG11	9:WB:151:LEU:HD21	1.96	0.47
9:WD:311:LEU:HD23	9:WD:342:VAL:HG21	1.97	0.47
8:WG:151:SER:HB2	8:WG:193:THR:HG21	1.97	0.47
9:WJ:200:TYR:HE1	9:WJ:368:ILE:HD12	1.79	0.47
9:WJ:252:LYS:HG3	8:WK:100:ALA:HA	1.96	0.47
8:WK:416:GLY:O	8:WK:419:SER:OG	2.32	0.47
9:WL:345:ILE:HD11	8:WM:404:PHE:HE2	1.79	0.47
8:WM:141:PHE:HA	8:WM:147:SER:HB2	1.96	0.47
56:XJ:115:LYS:O	56:XJ:144:TYR:OH	2.29	0.47
57:YG:196:ILE:HD12	57:YG:199:ILE:HG13	1.96	0.47
59:b:237:SER:O	59:b:241:GLN:HG3	2.15	0.47
59:d:333:LEU:O	59:d:337:MET:HG2	2.15	0.47
60:f:177:PHE:HE1	60:f:185:ILE:HG23	1.79	0.47
60:g:321:ASN:OD1	60:g:323:THR:N	2.48	0.47
61:h:21:LYS:HD2	61:h:21:LYS:HA	1.65	0.47
63:m:165:VAL:HA	63:m:174:MET:HG3	1.96	0.47
46:o:511:ARG:HB3	46:o:512:LYS:HE2	1.97	0.47
66:u:312:MET:HE3	66:u:317:GLN:HG3	1.97	0.47
2:0C:30:LEU:O	2:0C:34:ARG:HG2	2.14	0.47
2:0c:80:LEU:HA	2:0c:83:HIS:CE1	2.50	0.47
2:0e:133:ASN:O	2:0e:134:HIS:ND1	2.45	0.47
2:0i:91:THR:HG22	2:0i:92:PRO:HD3	1.96	0.47
6:A0:164:MET:SD	8:IE:215:ARG:NE	2.86	0.47
13:Ab:119:ARG:HD3	20:BT:114:TYR:CE2	2.50	0.47
13:Ab:434:VAL:HB	9:FJ:276:ARG:HH12	1.79	0.47
14:Al:31:VAL:HG22	8:EE:221:ARG:HD2	1.97	0.47
18:B5:190:ARG:HH12	18:B5:253:ILE:HD11	1.79	0.47
18:B5:191:LEU:HG	18:B5:195:GLU:OE1	2.15	0.47
8:BI:271:THR:HB	8:BI:377:MET:HB3	1.96	0.47
9:BJ:143:THR:O	9:BJ:147:MET:HB3	2.15	0.47
8:BK:420:GLU:N	8:BK:420:GLU:OE1	2.47	0.47
9:BL:282:ARG:HG2	47:Y:109:MET:HE1	1.97	0.47
6:BN:221:MET:HG2	9:IN:337:ASN:ND2	2.30	0.47
20:BT:137:ASP:OD1	20:BT:137:ASP:N	2.42	0.47
21:Bk:252:LEU:HB3	9:KN:276:ARG:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:By:158:PRO:HD2	18:By:161:ILE:HD12	1.96	0.47
28:C3:478:ARG:HE	28:C3:478:ARG:HB2	1.49	0.47
8:CA:231:ILE:O	8:CA:235:VAL:HG12	2.14	0.47
8:CA:319:TYR:HE1	8:CA:375:VAL:HG22	1.80	0.47
8:CE:42:ILE:HG23	8:CE:44:GLY:H	1.80	0.47
9:CH:239:CYS:HB3	9:CH:247:ASN:HB2	1.97	0.47
9:CJ:334:GLN:NE2	9:CJ:349:VAL:H	2.13	0.47
2:CV:142:ILE:HG23	2:CV:142:ILE:HD12	1.73	0.47
2:Ca:73:ILE:HG21	2:Ca:142:ILE:HD13	1.96	0.47
33:Ct:226:LYS:O	33:Ct:230:GLU:HG2	2.14	0.47
33:Cx:96:LYS:HE2	33:Cx:155:ILE:HG23	1.97	0.47
29:D1:224:MET:HE2	29:D1:224:MET:HB3	1.77	0.47
29:D3:244:ARG:HH21	29:D3:245:ASP:HB2	1.80	0.47
9:DB:46:ARG:HH12	9:DB:243:PRO:HD3	1.79	0.47
9:DF:69:GLU:H	9:DF:69:GLU:HG3	1.59	0.47
9:DH:165:ASN:HA	9:DH:198:GLU:HB2	1.97	0.47
9:DJ:271:ALA:HB1	9:DJ:289:LEU:HD22	1.97	0.47
8:DK:158:SER:OG	8:DK:166:LYS:NZ	2.47	0.47
8:DK:201:ALA:HA	8:DK:268:PRO:HD2	1.96	0.47
9:DL:77:ARG:NH1	9:DL:82:GLY:O	2.48	0.47
9:DL:138:SER:HA	9:DL:169:VAL:HG22	1.95	0.47
8:DM:211:ASP:HA	8:DM:214:ARG:NH1	2.30	0.47
29:DX:243:MET:O	29:DX:243:MET:HE3	2.15	0.47
37:De:237:GLY:HA2	8:TM:48:SER:HB3	1.96	0.47
43:E3:101:ARG:HE	28:F4:148:GLU:CD	2.20	0.47
9:EB:113:VAL:HG11	9:EB:154:LYS:NZ	2.29	0.47
9:EB:259:PRO:HD3	9:EB:311:LEU:HD21	1.96	0.47
8:EG:207:GLU:HA	8:EG:210:TYR:HB2	1.97	0.47
9:EH:334:GLN:HE22	9:EH:348:ASN:N	2.10	0.47
9:EJ:230:SER:HA	9:EJ:233:MET:HB3	1.96	0.47
9:EJ:311:LEU:HD23	9:EJ:342:VAL:HG21	1.96	0.47
8:EK:175:PRO:HG2	8:EK:394:LYS:HD2	1.97	0.47
9:EN:210:ILE:O	9:EN:214:THR:OG1	2.29	0.47
44:ET:183:ILE:O	44:ET:187:GLN:HG3	2.15	0.47
42:F:471:TYR:HB3	42:F:475:GLU:HB3	1.97	0.47
9:FB:166:THR:HG21	9:FB:192:LEU:HD11	1.97	0.47
9:FB:167:PHE:CE2	9:FB:233:MET:HB2	2.50	0.47
9:FL:363:MET:HE2	9:FL:363:MET:HB2	1.88	0.47
9:FN:289:LEU:H	9:FN:289:LEU:HD12	1.79	0.47
9:GF:95:SER:OG	9:GF:108:GLU:OE2	2.32	0.47
9:GH:107:THR:OG1	9:GH:108:GLU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GH:267:MET:HB2	9:GH:267:MET:HE3	1.63	0.47
8:GK:71:GLU:OE2	8:GK:73:THR:OG1	2.32	0.47
9:GL:107:THR:HG21	9:GL:401:GLU:HG2	1.97	0.47
9:HD:205:GLU:OE1	9:HD:205:GLU:N	2.42	0.47
8:HE:105:ARG:HG2	8:HE:411:GLU:HG2	1.96	0.47
8:HE:172:TYR:HE2	8:HE:387:ALA:HB1	1.79	0.47
9:HF:1:MET:H2	9:HF:48:ASN:HD21	1.61	0.47
9:HH:101:TRP:NE1	9:HH:145:SER:O	2.48	0.47
9:HH:290:THR:HA	9:HH:293:MET:HB2	1.95	0.47
9:HJ:210:ILE:HG21	9:HJ:228:LEU:HD21	1.96	0.47
9:HN:323:MET:HE2	9:HN:323:MET:HB2	1.79	0.47
47:I:274:GLU:HB2	47:I:294:ARG:HB3	1.97	0.47
8:IK:291:ILE:HD13	8:IK:373:ARG:HB3	1.96	0.47
9:IN:417:ASP:OD1	9:IN:420:SER:OG	2.32	0.47
8:JC:417:GLU:HA	8:JC:420:GLU:HG3	1.97	0.47
9:JD:2:ARG:HH22	8:JE:73:THR:HG23	1.79	0.47
8:JE:15:GLN:O	8:JE:228:ASN:ND2	2.48	0.47
9:KF:392:LYS:HZ1	9:KF:405:GLU:HG2	1.80	0.47
8:KI:223:THR:OG1	8:KI:224:TYR:N	2.48	0.47
9:LD:81:PHE:HD1	9:LD:84:ILE:HD13	1.79	0.47
9:LF:198:GLU:HG3	9:LF:266:PHE:CE2	2.50	0.47
9:LF:198:GLU:HG3	9:LF:266:PHE:HE2	1.78	0.47
9:MB:77:ARG:NH1	9:MB:82:GLY:O	2.48	0.47
8:MK:385:ALA:HA	8:MK:388:TRP:HD1	1.79	0.47
9:ND:1:MET:N	9:ND:48:ASN:OD1	2.33	0.47
9:NH:333:VAL:HA	9:NH:336:LYS:HD3	1.96	0.47
9:O0:8:GLN:HB2	9:O0:65:LEU:HA	1.96	0.47
9:O0:344:TRP:HA	8:OA:397:LEU:HG	1.96	0.47
9:OB:325:GLU:O	9:OB:329:GLN:HG2	2.15	0.47
8:OC:373:ARG:NH2	54:R:172:ILE:O	2.48	0.47
9:OD:198:GLU:HA	9:OD:264:HIS:HB2	1.97	0.47
8:OK:9:VAL:HG21	8:OK:150:ALA:HB2	1.95	0.47
9:OL:173:PRO:HB3	9:OL:380:ARG:NH1	2.30	0.47
52:P:102:ARG:HD2	59:c:215:ILE:HD11	1.96	0.47
8:PA:223:THR:HG23	8:PA:225:THR:H	1.80	0.47
9:PD:307:HIS:O	9:PD:426:GLN:NE2	2.48	0.47
9:PH:273:LEU:O	9:PH:292:GLN:NE2	2.48	0.47
8:QA:210:TYR:HE2	8:QA:214:ARG:HH21	1.62	0.47
9:QB:257:MET:HE3	9:QB:314:ALA:HB2	1.97	0.47
9:QB:260:PHE:HB2	9:QB:263:LEU:HD13	1.96	0.47
8:QE:15:GLN:O	8:QE:228:ASN:ND2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QH:324:LYS:O	9:QH:328:GLU:HB2	2.15	0.47
8:QK:206:ASN:OD1	67:QK:501:GTP:N2	2.44	0.47
9:QL:166:THR:HG23	9:QL:199:THR:HA	1.97	0.47
9:QL:270:PHE:HB3	9:QL:273:LEU:HD21	1.96	0.47
8:QM:6:SER:HB3	8:QM:8:HIS:CE1	2.49	0.47
8:RM:27:GLU:HA	8:RM:361:THR:HG21	1.96	0.47
8:RM:274:PRO:HG3	8:RM:374:ALA:HA	1.96	0.47
8:SA:180:ALA:HB3	8:SA:183:GLU:HG3	1.95	0.47
9:SH:67:ASP:OD2	9:SH:72:THR:OG1	2.25	0.47
9:SH:156:ARG:HH12	9:SH:197:ASP:CG	2.20	0.47
8:SI:367:ASP:OD1	8:SI:367:ASP:N	2.42	0.47
9:SJ:49:VAL:HG11	9:SJ:241:ARG:HB3	1.96	0.47
9:SJ:232:THR:HG21	9:SJ:268:PRO:HB3	1.96	0.47
9:SJ:398:TYR:O	9:SJ:403:MET:HG2	2.15	0.47
8:SM:71:GLU:OE1	8:SM:98:ASP:HB2	2.13	0.47
8:SM:107:HIS:CD2	8:SM:152:LEU:HB2	2.50	0.47
9:TB:82:GLY:N	9:TB:83:GLN:OE1	2.47	0.47
8:TE:12:ALA:O	8:TE:16:ILE:HG12	2.13	0.47
8:TE:56:THR:OG1	8:TE:57:GLY:N	2.48	0.47
8:TE:408:TYR:HB3	8:TE:413:MET:SD	2.55	0.47
9:UD:324:LYS:HZ1	8:UE:221:ARG:CA	2.23	0.47
9:UH:427:ASP:OD1	9:UH:427:ASP:N	2.39	0.47
8:UK:310:GLY:HA3	8:UK:383:ALA:HB2	1.96	0.47
9:UL:22:GLU:HG2	9:UL:81:PHE:HD1	1.79	0.47
9:UL:113:VAL:O	9:UL:117:LEU:HB2	2.15	0.47
1:V:58:TYR:OH	1:V:63:ASP:OD1	2.17	0.47
9:VB:226:ASN:HA	9:VB:229:VAL:HG12	1.96	0.47
8:VC:320:ARG:HB3	8:VC:374:ALA:HB3	1.97	0.47
8:VC:328:VAL:O	8:VC:332:ILE:HD12	2.13	0.47
9:VF:151:LEU:O	9:VF:155:ILE:HG13	2.15	0.47
9:VH:380:ARG:HA	9:VH:383:GLU:HG2	1.96	0.47
8:VI:319:TYR:HB2	8:VI:355:ILE:HD13	1.97	0.47
8:VI:406:HIS:HA	8:VI:409:VAL:HG12	1.97	0.47
9:VJ:51:TYR:HB3	9:VJ:59:TYR:HB3	1.97	0.47
9:VL:237:THR:HG22	9:VL:250:LEU:HD21	1.96	0.47
9:WH:164:MET:HE2	9:WH:164:MET:HB2	1.75	0.47
8:WK:118:VAL:HG11	8:WK:149:PHE:HZ	1.80	0.47
56:XK:21:PRO:HD2	57:YK:209:ASP:HB3	1.96	0.47
57:YJ:223:ASP:HA	57:YJ:226:GLN:OE1	2.15	0.47
60:e:446:VAL:HG13	60:e:457:GLU:HB2	1.96	0.47
60:e:555:ASP:HB3	60:e:598:ILE:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:f:166:THR:H	60:f:179:THR:HB	1.79	0.47
62:j:151:ILE:HG12	62:j:153:GLY:H	1.79	0.47
46:o:351:GLU:HG2	46:o:354:LYS:NZ	2.29	0.47
2:0E:92:PRO:HA	2:0E:95:ASN:HB2	1.96	0.47
2:0c:115:ARG:O	2:0c:117:LYS:NZ	2.47	0.47
2:0i:11:SER:O	2:0i:15:LYS:HG2	2.15	0.47
7:A1:118:SER:OG	7:A1:119:ALA:N	2.47	0.47
9:AD:249:ASP:OD1	9:AD:251:ARG:N	2.48	0.47
8:AI:199:ASP:HB3	8:AI:256:GLN:HE21	1.79	0.47
8:AM:411:GLU:N	8:AM:411:GLU:OE1	2.48	0.47
11:AU:324:GLU:HB3	11:AU:328:LYS:NZ	2.30	0.47
11:AU:436:ASN:O	11:AU:440:ARG:HG2	2.15	0.47
12:AV:342:LEU:HG	12:AV:355:VAL:HG21	1.97	0.47
12:AW:124:LYS:HE2	12:AW:126:MET:HG3	1.97	0.47
13:Ad:179:GLU:HG3	13:Ad:184:LYS:HE2	1.97	0.47
13:Ad:308:LYS:NZ	9:BB:74:ASP:O	2.47	0.47
18:B5:123:LYS:NZ	18:B5:126:PRO:HD3	2.30	0.47
8:BA:16:ILE:HD13	8:BA:231:ILE:HG21	1.97	0.47
8:BC:99:ALA:HA	8:BC:105:ARG:HD2	1.96	0.47
8:BI:218:ASP:N	8:BI:218:ASP:OD1	2.47	0.47
9:BJ:362:LYS:HD3	14:Bc:270:HIS:HB3	1.97	0.47
19:BR:151:LEU:HG	19:BR:227:LEU:HD23	1.97	0.47
19:BR:476:GLN:N	19:BR:476:GLN:OE1	2.44	0.47
21:BV:308:ASP:OD1	21:BV:311:ARG:NH2	2.45	0.47
8:CA:317:MET:HB2	8:CA:353:VAL:HA	1.95	0.47
9:CB:36:TYR:OH	9:CB:40:SER:O	2.31	0.47
67:CH:502:GTP:O2G	8:CI:100:ALA:N	2.48	0.47
9:CJ:203:ASP:OD2	9:CJ:205:GLU:N	2.47	0.47
9:CL:276:ARG:NH2	47:Y:313:LEU:HD22	2.30	0.47
8:CM:275:VAL:HA	8:CM:368:LEU:HD21	1.97	0.47
2:Ce:15:LYS:HA	2:Ce:15:LYS:HD3	1.64	0.47
2:Cj:58:CYS:O	2:Cj:64:ARG:NH2	2.48	0.47
32:Cn:208:GLU:OE2	32:Cp:321:THR:OG1	2.32	0.47
33:Cu:114:ILE:HD11	33:Cw:2:ALA:HB1	1.96	0.47
33:Cy:331:ARG:NH1	33:Cy:336:TYR:OH	2.48	0.47
29:D3:362:THR:O	29:D3:366:LYS:HG2	2.15	0.47
29:D4:124:MET:HE1	29:D5:380:LEU:HD12	1.97	0.47
29:D8:228:CYS:O	29:D8:232:MET:HG2	2.15	0.47
9:DB:242:PHE:HB3	9:DB:356:ILE:HD13	1.97	0.47
29:DR:191:LEU:HD23	29:DR:195:LEU:HD23	1.97	0.47
29:DW:336:TRP:O	29:DW:340:THR:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:E2:89:GLU:OE1	43:E2:93:ARG:NH1	2.48	0.47
8:EC:156:ARG:NH2	8:EC:160:ASP:OD2	2.47	0.47
9:ED:81:PHE:HD2	9:ED:84:ILE:HD13	1.79	0.47
8:EG:102:ASN:HB3	8:EG:105:ARG:HB2	1.96	0.47
9:EL:116:VAL:HG11	9:EL:151:LEU:HD11	1.97	0.47
9:EL:210:ILE:O	9:EL:214:THR:OG1	2.27	0.47
8:EM:98:ASP:OD1	8:EM:98:ASP:N	2.47	0.47
29:EO:272:ASN:HA	44:EY:316:HIS:NE2	2.29	0.47
8:FC:262:TYR:HB2	8:FC:265:ILE:HG12	1.96	0.47
9:FH:257:MET:HA	9:FH:312:THR:HG21	1.97	0.47
9:FH:331:LEU:HD13	8:FI:177:VAL:HG22	1.97	0.47
9:GF:252:LYS:HA	9:GF:255:VAL:HG12	1.97	0.47
8:GI:172:TYR:OH	8:GI:387:ALA:O	2.32	0.47
9:HD:101:TRP:NE1	9:HD:145:SER:O	2.48	0.47
9:HF:19:LYS:O	9:HF:22:GLU:HB2	2.15	0.47
9:HL:198:GLU:HB2	9:HL:266:PHE:HE2	1.80	0.47
8:HM:304:LYS:HE2	8:HM:304:LYS:HB2	1.79	0.47
8:IE:129:CYS:SG	8:IE:132:LEU:HB2	2.55	0.47
9:IF:136:THR:HG22	9:IF:167:PHE:HB2	1.97	0.47
8:IO:96:LYS:HD3	8:IO:96:LYS:HA	1.75	0.47
9:JL:320:ARG:NH2	1:V:158:GLU:OE2	2.48	0.47
9:KD:323:MET:HG3	8:KE:224:TYR:CD1	2.50	0.47
8:KG:251:ASP:N	8:KG:254:GLU:OE1	2.38	0.47
9:LB:376:GLU:HA	9:LB:379:LYS:HE2	1.97	0.47
8:LC:188:ILE:HG13	8:LC:395:LEU:HD22	1.96	0.47
9:LH:192:LEU:O	9:LH:196:THR:OG1	2.33	0.47
8:MI:326:LYS:HZ2	9:MJ:208:TYR:HB3	1.78	0.47
8:MK:37:PRO:HG2	8:MK:40:LYS:HD3	1.97	0.47
8:NA:196:GLU:N	8:NA:196:GLU:OE1	2.48	0.47
8:NE:140:SER:HB2	8:NE:171:ILE:HG12	1.97	0.47
8:NI:188:ILE:HD12	8:NI:425:LEU:HG	1.97	0.47
8:NI:214:ARG:HH22	8:NI:220:GLU:HA	1.80	0.47
9:NJ:36:TYR:OH	9:NJ:40:SER:O	2.31	0.47
8:OE:89:PRO:HD3	8:PE:283:HIS:CE1	2.50	0.47
9:OF:236:VAL:HG22	9:OF:368:ILE:HD11	1.96	0.47
8:OG:307:PRO:HB3	8:OG:381:THR:HG21	1.96	0.47
8:OI:168:GLU:HB2	8:OI:201:ALA:HA	1.96	0.47
9:OJ:49:VAL:HG11	9:OJ:241:ARG:HG2	1.97	0.47
9:PD:14:ASN:ND2	9:PD:73:MET:SD	2.88	0.47
9:PH:385:PHE:O	9:PH:389:PHE:HB3	2.15	0.47
8:PI:54:SER:HB2	8:PI:64:ARG:NH2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PK:115:VAL:HA	8:PK:118:VAL:HG22	1.96	0.47
8:QG:211:ASP:CA	8:QG:214:ARG:HH12	2.28	0.47
8:QK:349:THR:OG1	8:QK:350:GLY:N	2.48	0.47
8:QM:55:GLU:O	8:RM:285:GLN:OE1	2.32	0.47
8:QM:255:PHE:HA	8:QM:258:ASN:HB2	1.97	0.47
9:RB:269:GLY:HA2	9:RB:300:MET:HE1	1.97	0.47
8:RC:207:GLU:HA	8:RC:210:TYR:HB2	1.96	0.47
8:RM:382:THR:HA	8:RM:432:TYR:HE1	1.80	0.47
8:SA:2:ARG:NH1	8:SA:242:LEU:O	2.48	0.47
8:SA:11:GLN:HE21	8:SA:15:GLN:NE2	2.13	0.47
8:SG:328:VAL:HG21	8:SG:355:ILE:HD11	1.97	0.47
8:SI:293:ASN:HB3	8:SI:335:ILE:HD11	1.97	0.47
9:SJ:26:ASP:O	9:SJ:359:ARG:NH1	2.48	0.47
9:SJ:217:LEU:HD13	9:SJ:220:PRO:HB3	1.97	0.47
9:SL:326:VAL:O	9:SL:330:MET:HG2	2.15	0.47
8:SM:56:THR:OG1	8:SM:60:LYS:N	2.48	0.47
9:TD:32:PRO:HG3	9:TD:81:PHE:CE1	2.50	0.47
9:TD:324:LYS:HZ3	8:TE:222:PRO:HG2	1.79	0.47
9:TH:39:ASP:OD1	9:TH:39:ASP:N	2.48	0.47
9:TJ:187:LEU:HD21	9:TJ:408:PHE:CE1	2.50	0.47
9:TL:128:ASP:N	9:TL:128:ASP:OD1	2.45	0.47
9:UD:325:GLU:O	9:UD:329:GLN:HG3	2.14	0.47
8:UI:27:GLU:OE2	8:UI:320:ARG:NH2	2.48	0.47
9:UJ:247:ASN:O	9:UJ:252:LYS:NZ	2.48	0.47
8:UM:96:LYS:HD3	8:UM:96:LYS:HA	1.74	0.47
8:UM:273:ALA:HB2	8:UM:295:CYS:HB2	1.96	0.47
9:VB:218:THR:OG1	9:VB:219:THR:N	2.48	0.47
9:VH:259:PRO:HB2	9:VH:260:PHE:CD1	2.50	0.47
8:VI:241:SER:OG	8:VI:250:VAL:O	2.28	0.47
9:VJ:112:LEU:HB3	9:VJ:147:MET:HE3	1.97	0.47
8:VK:345:ASP:N	8:VK:345:ASP:OD1	2.46	0.47
9:VN:207:LEU:HB3	9:VN:225:LEU:HG	1.97	0.47
9:WB:68:LEU:HD23	9:WB:97:ALA:HB2	1.97	0.47
8:WE:349:THR:OG1	8:WE:350:GLY:N	2.48	0.47
9:WF:398:TYR:HD2	9:WF:408:PHE:HZ	1.63	0.47
8:WK:133:GLN:HB2	8:WK:252:LEU:HD13	1.96	0.47
8:WK:268:PRO:HA	8:WK:380:ASN:HA	1.97	0.47
56:XG:62:PRO:HG3	56:XG:69:LEU:HD22	1.95	0.47
56:XM:46:VAL:HG23	56:XM:163:ARG:HB2	1.97	0.47
57:YL:39:SER:HB3	57:YL:53:VAL:HA	1.95	0.47
2:0A:22:GLN:HA	9:PJ:41:ASP:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0C:2:MET:HA	2:0C:87:LEU:HD21	1.97	0.47
2:0a:101:CYS:O	2:0a:105:VAL:HG12	2.15	0.47
2:0g:47:ILE:O	2:0g:51:GLN:HG2	2.15	0.47
3:2:40:ILE:HD11	3:2:87:TYR:HB3	1.96	0.47
7:A3:120:PRO:O	9:QH:329:GLN:NE2	2.37	0.47
7:A6:221:HIS:CD2	8:RM:119:LEU:HB3	2.50	0.47
7:A7:123:SER:OG	9:SF:336:LYS:HD3	2.15	0.47
7:A7:169:LEU:H	7:A7:169:LEU:HD22	1.80	0.47
9:AD:326:VAL:O	9:AD:330:MET:HG2	2.15	0.47
10:AP:76:PRO:HB2	10:AP:79:ALA:HB2	1.95	0.47
11:AT:152:LYS:HE3	9:GH:83:GLN:HE22	1.80	0.47
12:AV:351:ILE:HD13	12:AV:351:ILE:HA	1.74	0.47
13:Ab:291:ASN:HA	9:CJ:216:LYS:HZ1	1.78	0.47
13:Ab:341:ASP:OD1	13:Ab:342:CYS:N	2.47	0.47
13:Ad:332:VAL:HG23	13:Ad:335:ARG:HB2	1.97	0.47
13:Ad:489:LYS:HD3	13:Ad:493:LEU:HD13	1.96	0.47
13:Ad:541:GLU:HG3	13:Ad:544:LYS:HB2	1.97	0.47
14:Al:20:TYR:OH	9:DD:45:GLU:OE2	2.21	0.47
8:BC:199:ASP:OD1	8:BC:199:ASP:N	2.48	0.47
8:BC:284:GLU:OE1	8:BC:285:GLN:N	2.47	0.47
9:BF:86:ARG:HG2	9:BF:88:ASP:H	1.80	0.47
19:BP:132:GLY:C	19:BP:288:THR:HG21	2.39	0.47
20:BS:308:LEU:HB3	20:BS:310:ARG:HH21	1.80	0.47
18:Bz:239:GLN:NE2	36:Db:150:TYR:OH	2.48	0.47
28:C7:390:SER:HG	28:C8:283:TYR:HH	1.61	0.47
28:C8:255:GLU:HG3	28:F4:204:LYS:HE2	1.97	0.47
28:C8:371:GLU:OE2	28:DO:121:ARG:NH2	2.48	0.47
8:CA:178:SER:OG	8:CA:183:GLU:OE2	2.29	0.47
9:CD:161:ASP:OD1	9:CD:161:ASP:N	2.41	0.47
9:CF:142:GLY:N	69:CF:501:GDP:O1B	2.47	0.47
9:CJ:382:SER:O	9:CJ:386:THR:HG23	2.15	0.47
9:CL:101:TRP:HE3	9:CL:403:MET:HE1	1.79	0.47
30:CW:316:HIS:CD2	9:JF:80:PRO:HD3	2.50	0.47
2:CZ:127:SER:O	2:CZ:132:ARG:NH1	2.48	0.47
2:Cc:66:ILE:HD12	2:Cc:66:ILE:HA	1.77	0.47
2:Ck:145:ILE:O	2:Ck:149:MET:HG3	2.15	0.47
32:Cp:119:ARG:HH12	32:Cp:132:VAL:HG13	1.79	0.47
33:Cq:120:ARG:NH2	33:Cq:131:ASP:OD2	2.40	0.47
29:D5:393:LYS:O	29:D5:397:THR:HG22	2.14	0.47
9:DF:182:PRO:O	9:DF:186:THR:HG23	2.15	0.47
8:DG:103:TYR:H	8:DG:408:TYR:HE1	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DG:261:PRO:C	9:DH:397:TRP:HZ2	2.23	0.47
8:DG:348:PRO:HD2	9:DH:388:MET:HE3	1.97	0.47
9:DJ:156:ARG:NH2	9:DJ:197:ASP:OD1	2.48	0.47
9:DL:265:PHE:HB3	9:DL:374:ILE:HD13	1.97	0.47
29:DU:221:GLU:CB	29:DU:338:GLN:HE21	2.27	0.47
36:Dc:190:TRP:CE2	57:YI:217:LYS:HG2	2.50	0.47
38:Dg:141:GLN:HB3	38:Dg:144:PRO:HG3	1.97	0.47
39:Dj:110:MET:HG2	39:Dj:116:LEU:HB2	1.96	0.47
39:Dk:123:VAL:O	39:Dk:126:HIS:HB2	2.15	0.47
43:E2:30:ASP:OD1	43:E2:30:ASP:N	2.48	0.47
9:EB:103:LYS:HA	9:EB:107:THR:HB	1.97	0.47
8:EC:395:LEU:HA	8:EC:398:MET:HB2	1.97	0.47
9:ED:289:LEU:HD21	9:ED:365:ALA:HB3	1.96	0.47
29:EQ:366:LYS:HZ1	44:EY:446:TYR:HB3	1.80	0.47
44:EU:442:GLN:N	44:EU:442:GLN:OE1	2.45	0.47
44:EX:124:LEU:HD23	44:EX:208:LYS:HB2	1.96	0.47
35:Ee:202:PHE:HD2	9:LH:213:ARG:HH12	1.62	0.47
42:F:605:GLN:NE2	8:JM:278:ALA:HB2	2.28	0.47
28:F3:116:ASN:HD22	28:F3:119:ARG:NH1	2.13	0.47
28:F5:376:GLU:O	28:F5:380:GLU:HG2	2.15	0.47
9:FD:21:TRP:CZ3	9:FD:61:PRO:HB3	2.50	0.47
8:FG:256:GLN:HB2	9:FH:397:TRP:CH2	2.49	0.47
8:FI:123:ARG:HH21	8:FI:124:LYS:NZ	2.13	0.47
8:FI:273:ALA:HB3	8:FI:375:VAL:H	1.81	0.47
8:FI:392:ASP:OD1	8:FI:422:ARG:NH1	2.48	0.47
9:FL:158:GLU:HG3	9:FL:159:TYR:CD1	2.50	0.47
9:GD:252:LYS:HB3	8:GE:100:ALA:HB1	1.96	0.47
9:GF:33:THR:HA	9:GF:83:GLN:HE22	1.80	0.47
8:GI:175:PRO:HB3	8:GI:390:ARG:CZ	2.45	0.47
9:GJ:169:VAL:HG22	9:GJ:202:ILE:HB	1.97	0.47
9:GN:117:LEU:HD11	9:GN:154:LYS:HB3	1.96	0.47
9:HD:198:GLU:HG2	9:HD:266:PHE:HE2	1.79	0.47
8:IG:150:ALA:O	8:IG:154:MET:HG2	2.15	0.47
9:IH:293:MET:HE3	9:IH:367:PHE:HD1	1.80	0.47
8:II:241:SER:OG	8:II:250:VAL:N	2.45	0.47
48:J:97:LYS:HG2	48:J:98:LYS:H	1.80	0.47
9:JN:207:LEU:HB3	9:JN:225:LEU:HD22	1.95	0.47
9:KB:52:ASN:OD1	9:KB:62:ARG:NH1	2.48	0.47
8:KC:317:MET:SD	8:KC:377:MET:HG3	2.55	0.47
9:KD:10:GLY:O	9:KD:14:ASN:ND2	2.48	0.47
9:KD:311:LEU:O	9:KD:348:ASN:ND2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KG:219:ILE:HG12	8:KG:222:PRO:HD3	1.96	0.47
9:KH:344:TRP:H	9:KH:344:TRP:CD1	2.33	0.47
8:KI:326:LYS:HD3	9:KJ:220:PRO:HD2	1.97	0.47
9:KJ:100:ASN:ND2	9:KJ:401:GLU:OE2	2.48	0.47
8:KK:71:GLU:OE1	8:KK:73:THR:OG1	2.31	0.47
9:KL:334:GLN:NE2	9:KL:347:ASN:OD1	2.44	0.47
9:KN:157:GLU:OE1	9:KN:157:GLU:N	2.43	0.47
9:LF:290:THR:HG21	9:LF:329:GLN:HB3	1.97	0.47
9:LN:432:GLU:HG3	9:LN:434:GLY:H	1.79	0.47
48:M:105:ILE:H	48:M:105:ILE:HD12	1.79	0.47
9:MD:285:THR:OG1	9:MD:288:GLU:OE1	2.33	0.47
9:MF:121:ARG:NH1	9:MF:158:GLU:OE1	2.48	0.47
9:MH:299:MET:HE3	9:MH:305:PRO:HG3	1.97	0.47
9:N0:293:MET:HB3	9:N0:294:PHE:CD1	2.46	0.47
8:NE:66:VAL:HA	8:NE:91:GLN:HB3	1.96	0.47
8:NE:81:GLY:O	8:NE:84:ARG:NH1	2.48	0.47
8:NI:245:ASP:OD1	8:NI:245:ASP:N	2.47	0.47
8:OE:101:ASN:H	67:OE:501:GTP:PG	2.38	0.47
8:OG:108:TYR:HE1	8:OG:413:MET:SD	2.38	0.47
8:OI:259:LEU:HD21	8:OI:378:LEU:HB3	1.96	0.47
8:OK:10:GLY:HA2	8:OK:145:THR:HG23	1.96	0.47
8:PC:91:GLN:HE22	8:PC:121:ARG:HB3	1.80	0.47
8:PC:93:ILE:HD13	8:PC:93:ILE:HA	1.75	0.47
9:PF:250:LEU:HA	9:PF:253:LEU:HD12	1.96	0.47
9:PF:293:MET:HA	9:PF:298:ASN:HD22	1.80	0.47
9:PH:324:LYS:HG2	8:PI:222:PRO:HD2	1.96	0.47
8:PI:20:CYS:SG	8:PI:21:TRP:N	2.88	0.47
9:PJ:63:ALA:O	9:PJ:89:ASN:ND2	2.48	0.47
8:PK:188:ILE:HG13	8:PK:395:LEU:HD22	1.97	0.47
9:QB:51:TYR:HB3	9:QB:59:TYR:HB3	1.97	0.47
8:QG:252:LEU:HA	8:QG:255:PHE:HD2	1.80	0.47
9:QH:156:ARG:NH2	9:QH:197:ASP:OD1	2.48	0.47
9:QJ:66:VAL:HA	9:QJ:91:VAL:HG23	1.97	0.47
8:QM:214:ARG:O	8:QM:214:ARG:NH1	2.48	0.47
54:R:272:ARG:NH1	54:R:279:GLY:O	2.41	0.47
54:R:273:GLN:HB3	54:R:282:THR:HG22	1.96	0.47
8:RI:191:THR:HA	8:RI:194:THR:HG22	1.97	0.47
9:RL:322:SER:O	8:RM:221:ARG:NH1	2.48	0.47
8:SC:108:TYR:O	8:SC:112:LYS:NZ	2.48	0.47
9:SF:318:ARG:HD3	9:SF:358:PRO:HD3	1.97	0.47
8:SK:36:MET:SD	8:SK:36:MET:N	2.88	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SK:360:PRO:HG3	8:SK:374:ALA:HB2	1.96	0.47
9:SL:107:THR:OG1	9:SL:108:GLU:N	2.48	0.47
8:SM:54:SER:HB2	8:SM:62:VAL:HG22	1.95	0.47
9:TF:105:HIS:CD2	9:TF:150:LEU:HB2	2.49	0.47
9:TF:190:HIS:HA	9:TF:414:ASN:HD21	1.80	0.47
8:TI:55:GLU:OE1	8:TI:61:HIS:NE2	2.48	0.47
9:TL:171:PRO:HG2	9:TL:185:ALA:HB2	1.97	0.47
8:UG:138:PHE:HE1	8:UG:235:VAL:HG11	1.79	0.47
8:UG:319:TYR:HB2	8:UG:355:ILE:HD13	1.97	0.47
9:UJ:325:GLU:O	9:UJ:329:GLN:HG2	2.14	0.47
9:VB:1:MET:SD	9:VB:46:ARG:NH1	2.88	0.47
9:VB:271:ALA:HB2	9:VB:293:MET:SD	2.55	0.47
9:VB:280:GLN:NE2	59:a:231:GLU:OE1	2.47	0.47
9:VD:54:ALA:HA	9:WD:283:ALA:HB2	1.96	0.47
8:VI:299:ALA:HB2	55:W:121:VAL:HG21	1.97	0.47
8:VM:229:ARG:HG2	8:VM:363:VAL:HG21	1.97	0.47
8:WC:267:PHE:HB3	8:WC:384:ILE:HD13	1.97	0.47
9:WD:67:ASP:HA	9:WD:143:THR:HG21	1.97	0.47
8:WI:127:ASP:OD2	57:YI:76:TYR:OH	2.33	0.47
9:WJ:229:VAL:O	9:WJ:233:MET:HB3	2.15	0.47
9:WL:101:TRP:O	9:WL:105:HIS:HB2	2.15	0.47
9:WL:159:TYR:HB3	9:WL:162:ARG:HD3	1.97	0.47
56:XH:72:LYS:HA	56:XH:72:LYS:HD3	1.62	0.47
56:XH:96:ASP:OD1	56:XH:146:THR:OG1	2.28	0.47
57:YL:168:THR:HA	57:YL:171:VAL:HG22	1.97	0.47
59:a:104:PRO:HD2	59:a:105:GLU:N	2.16	0.47
62:j:70:VAL:HG11	62:j:266:LEU:HB3	1.96	0.47
66:u:328:LYS:HA	66:u:328:LYS:HD3	1.73	0.47
2:0C:132:ARG:NH2	8:QK:33:ASP:OD1	2.42	0.46
2:0G:22:GLN:HE21	2:0G:66:ILE:HD13	1.79	0.46
3:1:174:SER:HB3	3:1:177:TYR:HB2	1.96	0.46
7:A7:108:PRO:HA	8:RG:116:ASP:HB3	1.97	0.46
8:AA:130:THR:OG1	8:AA:131:GLY:N	2.48	0.46
11:AU:383:LYS:HD3	11:AU:383:LYS:HA	1.62	0.46
13:Ab:77:ASP:HB3	9:BJ:279:GLN:HE22	1.81	0.46
13:Ad:323:ASP:N	13:Ad:323:ASP:OD1	2.47	0.46
15:Ar:22:LEU:HB2	15:Ar:45:THR:HG21	1.97	0.46
16:Ax:89:PHE:CD2	9:FF:291:GLN:HB2	2.51	0.46
7:Az:215:LYS:HE2	7:Az:215:LYS:HB2	1.72	0.46
18:B6:170:LYS:HE2	18:B6:170:LYS:HA	1.97	0.46
8:BA:250:VAL:HB	8:BA:254:GLU:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BC:42:ILE:H	8:BC:42:ILE:HD12	1.81	0.46
8:BI:241:SER:OG	8:BI:250:VAL:O	2.24	0.46
9:BL:389:PHE:HZ	9:BL:405:GLU:HB3	1.80	0.46
6:BN:271:ASP:OD1	6:BN:272:ILE:N	2.48	0.46
19:BP:87:PRO:HB3	19:BP:101:LYS:HZ1	1.80	0.46
22:BX:48:GLN:HG2	22:BX:50:ILE:H	1.80	0.46
23:Bg:48:ARG:HD3	23:Bg:51:GLU:HG2	1.96	0.46
18:Bz:130:ASP:OD2	8:KG:214:ARG:NH2	2.46	0.46
28:C7:409:ILE:HG23	28:C8:300:TRP:HD1	1.80	0.46
8:CA:6:SER:HB2	8:CA:136:LEU:HB2	1.96	0.46
9:CF:330:MET:SD	9:CF:351:THR:OG1	2.73	0.46
8:CI:6:SER:HA	8:CI:136:LEU:HB2	1.97	0.46
2:CT:126:LEU:HD11	2:CT:135:TYR:HB2	1.97	0.46
33:Cq:326:ASN:N	33:Cq:326:ASN:OD1	2.46	0.46
33:Ct:139:LYS:HE2	33:Ct:139:LYS:HB3	1.85	0.46
29:D2:143:ARG:HH11	29:D3:147:GLN:HA	1.80	0.46
29:D4:467:ILE:HA	29:D4:471:LYS:HE2	1.97	0.46
9:DF:219:THR:O	9:DF:219:THR:OG1	2.25	0.46
8:DI:311:LYS:HB3	8:DI:344:VAL:HG22	1.97	0.46
8:DI:338:LYS:HD2	8:DI:338:LYS:HA	1.76	0.46
8:DM:139:HIS:ND1	8:DM:146:GLY:O	2.33	0.46
8:DM:320:ARG:HD3	8:DM:360:PRO:HB3	1.96	0.46
36:Db:141:LEU:HD11	59:a:96:SER:HB3	1.96	0.46
8:EE:188:ILE:HD11	8:EE:391:LEU:HG	1.97	0.46
8:EE:405:VAL:O	8:EE:409:VAL:HG12	2.15	0.46
8:EI:194:THR:HA	8:EI:198:SER:HB3	1.97	0.46
9:EL:91:VAL:HG21	9:EL:116:VAL:HG22	1.96	0.46
9:EL:119:VAL:HA	9:EL:122:LYS:HG2	1.97	0.46
29:EP:190:PRO:HG3	29:EP:480:PRO:HD2	1.96	0.46
44:EV:68:PHE:HA	44:EV:71:ARG:HH12	1.80	0.46
44:EX:31:ARG:HD2	44:EX:31:ARG:HA	1.76	0.46
42:F:467:SER:OG	42:F:468:HIS:N	2.48	0.46
28:F4:206:MET:HG3	28:F4:461:VAL:HG22	1.97	0.46
8:FG:134:GLY:HA3	8:FG:165:SER:HB2	1.97	0.46
9:FH:218:THR:HG22	9:FH:219:THR:HG23	1.96	0.46
9:FH:285:THR:OG1	9:FH:286:VAL:N	2.47	0.46
8:FK:244:PHE:HD1	8:FK:358:GLN:CD	2.23	0.46
9:FN:290:THR:HG21	9:FN:329:GLN:HB3	1.97	0.46
9:FN:290:THR:HG21	9:FN:329:GLN:HE21	1.80	0.46
8:GG:183:GLU:HG2	8:GG:184:PRO:HD3	1.96	0.46
8:GK:151:SER:O	8:GK:155:GLU:HG3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GK:322:ASP:OD1	8:GK:322:ASP:N	2.44	0.46
8:HE:328:VAL:O	8:HE:332:ILE:HG12	2.14	0.46
9:HJ:317:PHE:HB2	9:HJ:353:VAL:HG22	1.97	0.46
9:HL:271:ALA:O	9:HL:273:LEU:N	2.46	0.46
9:HN:248:ALA:HA	9:HN:252:LYS:HE3	1.97	0.46
8:HO:109:THR:HG21	8:HO:411:GLU:HB3	1.97	0.46
9:IH:78:SER:N	9:IH:82:GLY:HA3	2.30	0.46
9:IH:164:MET:HB3	9:IH:196:THR:HA	1.97	0.46
8:IK:217:LEU:HD21	8:IK:368:LEU:HD22	1.97	0.46
9:IN:177:ASP:OD2	69:IN:501:GDP:O2'	2.33	0.46
8:JC:104:ALA:HB2	8:JC:413:MET:HE3	1.97	0.46
8:JK:201:ALA:HB1	8:JK:203:MET:HE3	1.97	0.46
8:JK:271:THR:HB	8:JK:377:MET:HB3	1.96	0.46
8:KC:280:LYS:NZ	8:LC:90:GLU:OE1	2.44	0.46
8:KK:392:ASP:OD2	8:KK:422:ARG:NH2	2.49	0.46
8:KO:175:PRO:HD2	8:KO:207:GLU:OE2	2.15	0.46
8:LC:248:LEU:HD12	8:LC:355:ILE:HD12	1.97	0.46
9:LL:288:GLU:O	9:LL:291:GLN:HG3	2.15	0.46
8:MG:20:CYS:SG	8:MG:21:TRP:N	2.88	0.46
8:MK:296:PHE:CZ	8:MK:377:MET:HE1	2.50	0.46
9:ML:337:ASN:HB2	9:ML:340:TYR:HD2	1.80	0.46
8:NC:31:GLN:OE1	8:NC:31:GLN:N	2.41	0.46
8:NK:432:TYR:HA	8:NK:435:VAL:HG12	1.96	0.46
9:NL:69:GLU:OE1	9:NL:97:ALA:N	2.49	0.46
8:OE:209:ILE:HD11	8:OE:302:MET:HB3	1.97	0.46
8:OE:319:TYR:HB3	8:OE:323:VAL:HG21	1.97	0.46
9:OF:52:ASN:HB2	9:OF:60:VAL:HG13	1.95	0.46
9:OF:385:PHE:HZ	9:OF:408:PHE:HB3	1.80	0.46
8:OG:155:GLU:HA	8:OG:197:HIS:HD2	1.80	0.46
9:OH:330:MET:HA	9:OH:333:VAL:HG12	1.97	0.46
9:OL:51:TYR:O	9:OL:62:ARG:NH2	2.48	0.46
9:PF:11:GLN:HE22	69:PF:501:GDP:H8	1.63	0.46
9:PF:312:THR:HA	9:PF:348:ASN:HB3	1.97	0.46
8:QA:165:SER:HB2	8:QA:256:GLN:HE22	1.79	0.46
9:QB:420:SER:O	9:QB:424:GLN:NE2	2.48	0.46
8:QC:402:ARG:HG3	8:QC:402:ARG:HH11	1.80	0.46
8:QG:274:PRO:HG3	8:QG:374:ALA:HA	1.96	0.46
8:QK:174:ALA:HB3	8:QK:177:VAL:O	2.15	0.46
9:QL:13:GLY:HA2	9:QL:16:ILE:HG22	1.97	0.46
9:QL:167:PHE:HA	9:QL:200:TYR:HB2	1.96	0.46
8:QM:88:HIS:HE1	8:QM:90:GLU:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RA:99:ALA:HA	8:RA:105:ARG:HD2	1.96	0.46
8:RA:297:GLU:HB3	8:RA:300:ASN:HB2	1.97	0.46
9:RB:167:PHE:HE1	9:RB:233:MET:HB2	1.79	0.46
9:RB:268:PRO:HB2	9:RB:300:MET:SD	2.56	0.46
9:RD:117:LEU:HB3	9:RD:121:ARG:NH2	2.29	0.46
8:RI:91:GLN:OE1	8:RI:121:ARG:NH2	2.49	0.46
8:RK:245:ASP:OD1	8:RK:245:ASP:N	2.48	0.46
8:SE:168:GLU:OE2	8:SE:198:SER:OG	2.30	0.46
9:SF:16:ILE:HA	9:SF:226:ASN:OD1	2.14	0.46
8:SM:17:GLY:HA2	8:SM:20:CYS:HB2	1.97	0.46
8:TC:11:GLN:HA	8:TC:14:VAL:HG22	1.97	0.46
9:TD:65:LEU:HD13	9:TD:90:PHE:HE1	1.80	0.46
9:TF:246:LEU:HD22	9:TF:323:MET:HE1	1.97	0.46
8:TG:260:VAL:HG13	9:TH:397:TRP:CZ2	2.50	0.46
8:TK:263:PRO:HD3	9:TL:396:HIS:CE1	2.49	0.46
9:TL:412:GLU:HA	9:TL:415:MET:HB2	1.96	0.46
8:UC:140:SER:OG	67:UC:501:GTP:O1A	2.32	0.46
9:UH:272:PRO:HG3	9:UH:364:SER:HA	1.96	0.46
8:UI:190:THR:HA	8:UI:193:THR:HG22	1.96	0.46
8:VC:69:ASP:OD1	8:VC:70:LEU:N	2.48	0.46
8:VK:108:TYR:CD1	8:VK:413:MET:HE2	2.50	0.46
9:VL:379:LYS:HD3	9:VL:419:VAL:HG11	1.97	0.46
9:VN:375:GLN:HE22	9:VN:419:VAL:HG13	1.79	0.46
47:Y:295:GLN:NE2	47:Y:297:MET:SD	2.88	0.46
59:a:127:GLN:HA	59:a:130:LYS:HE2	1.97	0.46
63:n:161:SER:OG	63:n:162:LYS:N	2.46	0.46
3:x:143:LEU:H	3:x:143:LEU:HD12	1.80	0.46
4:y:1363:LEU:HA	4:y:1366:LYS:HG2	1.97	0.46
3:2:95:THR:OG1	3:2:144:SER:O	2.31	0.46
4:3:1402:GLN:NE2	9:KH:410:GLU:OE1	2.48	0.46
9:AB:36:TYR:O	14:Bb:252:GLN:NE2	2.35	0.46
8:AC:35:GLN:OE1	8:BC:282:TYR:OH	2.33	0.46
9:AD:51:TYR:O	9:AD:62:ARG:NH2	2.47	0.46
9:AF:128:ASP:OD1	9:AF:128:ASP:N	2.44	0.46
8:AG:311:LYS:H	8:AG:382:THR:HB	1.80	0.46
9:AH:262:ARG:HE	57:YI:246:TYR:HE1	1.63	0.46
9:AL:226:ASN:OD1	69:AL:501:GDP:N1	2.47	0.46
12:AW:59:ASP:O	12:AW:64:ASN:ND2	2.45	0.46
13:Aa:211:TYR:HA	13:Aa:214:LYS:HG3	1.97	0.46
13:Ad:25:ASP:HA	13:Ad:35:PHE:HZ	1.81	0.46
15:Ap:143:LYS:HE2	47:I:156:LYS:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:B4:232:PRO:HB2	44:ET:291:GLU:HG3	1.97	0.46
9:BB:200:TYR:HE1	9:BB:266:PHE:HD2	1.61	0.46
9:BF:393:ALA:O	9:BF:395:LEU:N	2.48	0.46
27:Bs:244:TYR:CE2	8:HK:370:LYS:HD3	2.51	0.46
5:C:110:ARG:HH22	9:VJ:48:ASN:HB3	1.80	0.46
28:C3:281:VAL:HA	28:C5:398:THR:HG21	1.96	0.46
28:C4:192:LEU:HB2	28:C4:226:ILE:HG21	1.96	0.46
28:C9:132:TYR:OH	28:C9:136:ARG:NH1	2.48	0.46
28:C9:173:GLU:OE1	28:C9:322:ARG:NH1	2.48	0.46
8:CC:288:VAL:HA	8:CC:291:ILE:HG12	1.97	0.46
9:CH:209:ASP:HB3	9:CH:213:ARG:HE	1.79	0.46
2:CU:57:HIS:O	2:CU:58:CYS:C	2.57	0.46
2:CY:146:LEU:O	2:CY:146:LEU:HD23	2.15	0.46
2:Cg:26:PHE:CE1	2:Cg:30:LEU:HD21	2.50	0.46
2:Ci:108:SER:O	2:Ci:108:SER:OG	2.33	0.46
32:Cp:107:GLU:OE1	32:Cp:107:GLU:N	2.46	0.46
33:Ct:355:LYS:HD3	33:Ct:355:LYS:HA	1.68	0.46
29:Cz:220:ARG:HB3	29:Cz:338:GLN:HE22	1.80	0.46
8:DA:174:ALA:HB2	8:DA:205:ASP:HB3	1.97	0.46
9:DF:138:SER:HB2	69:DF:501:GDP:H5”	1.97	0.46
8:DI:133:GLN:HB2	8:DI:252:LEU:HD21	1.97	0.46
9:DJ:230:SER:HA	9:DJ:233:MET:HG2	1.97	0.46
9:DJ:395:LEU:HD23	9:DJ:395:LEU:H	1.80	0.46
29:DQ:203:LYS:HE3	29:DQ:203:LYS:HB2	1.62	0.46
29:DS:360:LEU:HD21	29:DS:457:GLU:HG3	1.97	0.46
29:DV:162:GLU:OE1	29:DV:310:SER:OG	2.33	0.46
43:E3:67:LEU:CD1	28:F4:302:LYS:HE2	2.45	0.46
9:EB:163:ILE:HD11	9:EB:250:LEU:HG	1.98	0.46
8:EM:224:TYR:HE2	67:EM:501:GTP:C5	2.34	0.46
42:F:479:ARG:NH1	8:IK:279:GLU:OE1	2.48	0.46
9:FD:106:TYR:HE2	9:FD:403:MET:HB3	1.81	0.46
9:FN:20:PHE:O	9:FN:24:ILE:HG12	2.15	0.46
9:GF:113:VAL:HA	9:GF:116:VAL:HG12	1.97	0.46
8:GI:306:ASP:OD1	8:GI:306:ASP:N	2.42	0.46
9:GL:226:ASN:OD1	69:GL:501:GDP:N1	2.48	0.46
9:GN:292:GLN:HG2	9:GN:298:ASN:ND2	2.30	0.46
8:HC:150:ALA:O	8:HC:154:MET:HG2	2.15	0.46
9:HH:86:ARG:NH2	9:IH:281:TYR:O	2.47	0.46
9:HJ:1:MET:N	9:HJ:3:GLU:OE1	2.44	0.46
9:HJ:51:TYR:O	9:HJ:62:ARG:NH2	2.48	0.46
8:HK:194:THR:HG21	8:HK:202:PHE:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HK:203:MET:SD	8:HK:203:MET:N	2.88	0.46
9:HL:45:GLU:HB3	9:HL:46:ARG:HD2	1.97	0.46
9:IB:46:ARG:HH22	8:IC:73:THR:HA	1.80	0.46
8:IE:3:GLU:OE2	8:IE:3:GLU:N	2.41	0.46
9:IH:174:LYS:HA	9:IH:174:LYS:HD3	1.63	0.46
9:IJ:42:LEU:HA	9:IJ:45:GLU:HG3	1.97	0.46
9:JB:54:ALA:HA	9:MB:283:ALA:HB2	1.97	0.46
9:JB:207:LEU:HB3	9:JB:225:LEU:HD22	1.97	0.46
8:JE:137:ILE:HB	8:JE:168:GLU:HB2	1.97	0.46
8:JE:311:LYS:H	8:JE:382:THR:HG1	1.64	0.46
9:JF:355:ASP:OD2	9:JF:355:ASP:N	2.45	0.46
9:JH:2:ARG:HB2	9:JH:240:LEU:HD21	1.97	0.46
9:JJ:31:ASP:OD1	9:JJ:35:THR:N	2.47	0.46
9:JJ:261:PRO:HG3	8:JK:406:HIS:ND1	2.31	0.46
9:JL:7:LEU:HD13	9:JL:64:VAL:HB	1.98	0.46
9:JL:152:ILE:HG22	9:JL:195:ASN:HB3	1.96	0.46
9:KB:186:THR:HG21	9:KB:385:PHE:CG	2.50	0.46
8:KE:102:ASN:HB3	8:KE:105:ARG:HB2	1.97	0.46
9:KJ:330:MET:HB3	9:KJ:349:VAL:HG11	1.97	0.46
9:KN:392:LYS:HG2	9:KN:395:LEU:HD12	1.98	0.46
9:LH:330:MET:HB3	9:LH:349:VAL:HG11	1.96	0.46
8:LM:262:TYR:OH	9:LN:391:ARG:O	2.33	0.46
9:LN:141:GLY:O	9:LN:145:SER:OG	2.33	0.46
8:MI:353:VAL:HG22	9:MJ:177:ASP:HB2	1.97	0.46
8:NE:173:PRO:HG3	8:NE:183:GLU:HG2	1.97	0.46
9:NJ:290:THR:HA	9:NJ:293:MET:HG3	1.96	0.46
9:NL:172:SER:HB2	9:NL:381:ILE:HG13	1.97	0.46
9:O0:267:MET:HA	9:O0:268:PRO:HD3	1.78	0.46
8:OA:345:ASP:OD1	8:OA:345:ASP:N	2.47	0.46
8:OG:17:GLY:HA2	8:OG:20:CYS:HB2	1.98	0.46
8:OK:322:ASP:H	8:OK:372:GLN:HG3	1.81	0.46
8:PC:88:HIS:HB3	8:PC:91:GLN:HB2	1.97	0.46
8:PE:349:THR:OG1	8:PE:350:GLY:N	2.44	0.46
8:PI:9:VAL:HG11	8:PI:150:ALA:HB2	1.96	0.46
9:PJ:239:CYS:HB3	9:PJ:247:ASN:HB3	1.97	0.46
9:PL:347:ASN:ND2	8:PM:180:ALA:O	2.41	0.46
8:PM:183:GLU:HG2	8:PM:184:PRO:HD3	1.96	0.46
53:Q:44:ASN:OD1	53:Q:46:MET:N	2.46	0.46
8:QC:79:ARG:O	8:QC:84:ARG:NE	2.48	0.46
9:QF:167:PHE:HB3	9:QF:202:ILE:HD12	1.98	0.46
8:QG:188:ILE:HD11	8:QG:391:LEU:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QH:322:SER:HB2	8:QI:221:ARG:HB3	1.97	0.46
8:QI:218:ASP:N	8:QI:218:ASP:OD1	2.47	0.46
8:QK:1:MET:N	8:QK:3:GLU:OE2	2.41	0.46
8:QK:150:ALA:O	8:QK:154:MET:HG3	2.15	0.46
8:QM:7:ILE:HD11	8:QM:122:ILE:HD11	1.97	0.46
9:RB:299:MET:SD	9:RB:299:MET:N	2.89	0.46
9:RD:131:GLN:HA	9:RD:162:ARG:HH21	1.80	0.46
9:RD:219:THR:O	9:RD:219:THR:OG1	2.27	0.46
8:RG:271:THR:OG1	8:RG:377:MET:HE2	2.15	0.46
8:RI:288:VAL:HG13	8:RI:319:TYR:HE2	1.79	0.46
9:RJ:240:LEU:HD23	9:RJ:240:LEU:H	1.81	0.46
9:RJ:313:VAL:HG13	9:RJ:367:PHE:HE1	1.79	0.46
9:RJ:344:TRP:CD2	8:RK:401:LYS:HE3	2.50	0.46
8:RK:167:LEU:HD12	8:RK:252:LEU:HD23	1.96	0.46
8:SC:291:ILE:HA	8:SC:294:ALA:HB3	1.96	0.46
8:SC:420:GLU:O	8:SC:423:GLU:HG3	2.14	0.46
9:SF:116:VAL:HA	9:SF:119:VAL:HG12	1.97	0.46
9:SF:163:ILE:HD13	9:SF:251:ARG:HG2	1.96	0.46
9:SF:364:SER:OG	9:SF:365:ALA:N	2.49	0.46
8:SG:163:LYS:HD3	8:SG:163:LYS:HA	1.70	0.46
9:SJ:364:SER:OG	9:SJ:365:ALA:N	2.48	0.46
8:SK:90:GLU:HB3	8:SK:121:ARG:HH22	1.81	0.46
9:SL:284:LEU:HG	9:SL:363:MET:HE3	1.97	0.46
8:TM:9:VAL:HG21	8:TM:149:PHE:HB3	1.96	0.46
8:TM:27:GLU:OE1	8:TM:320:ARG:NH2	2.49	0.46
9:UB:20:PHE:HE1	9:UB:233:MET:HE3	1.79	0.46
9:UB:135:LEU:HD12	9:UB:152:ILE:HD11	1.97	0.46
9:UH:173:PRO:HB3	9:UH:380:ARG:HH12	1.79	0.46
9:UJ:66:VAL:HG23	9:UJ:91:VAL:HG13	1.97	0.46
8:UK:241:SER:OG	8:UK:250:VAL:O	2.30	0.46
8:VE:206:ASN:ND2	8:VE:227:LEU:HD11	2.30	0.46
9:VF:267:MET:HE2	9:VF:299:MET:HG3	1.97	0.46
8:VK:40:LYS:HZ1	8:VK:45:GLY:HA2	1.80	0.46
9:VL:170:VAL:HG21	9:VL:377:LEU:HD11	1.96	0.46
55:W:174:LYS:HD2	55:W:174:LYS:HA	1.76	0.46
9:WD:39:ASP:OD1	9:WD:39:ASP:N	2.48	0.46
9:WF:287:PRO:HA	9:WF:290:THR:HG22	1.98	0.46
9:WL:36:TYR:OH	9:WL:40:SER:O	2.33	0.46
8:WM:255:PHE:O	8:WM:259:LEU:HG	2.14	0.46
47:X:118:ARG:NH2	47:X:135:GLU:OE2	2.47	0.46
47:X:358:LYS:HB2	47:X:359:PHE:HD1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:x:192:LYS:HA	3:x:195:VAL:HG22	1.96	0.46
2:0Y:51:GLN:HG2	2:0Y:71:LEU:HD22	1.97	0.46
4:3:1340:PRO:HA	4:3:1374:LYS:HA	1.97	0.46
7:A8:158:GLN:CD	7:A8:158:GLN:H	2.24	0.46
8:AA:115:VAL:O	8:AA:119:LEU:HD23	2.15	0.46
9:AJ:1:MET:HE1	9:AJ:46:ARG:HH11	1.80	0.46
11:AU:302:GLU:HA	11:AU:305:GLU:OE2	2.15	0.46
13:Aa:21:LEU:HD12	13:Aa:23:GLY:H	1.80	0.46
13:Aa:246:ILE:HG21	13:Aa:270:LEU:HB2	1.97	0.46
13:Ab:263:LEU:HD23	13:Ab:263:LEU:HA	1.83	0.46
16:At:232:VAL:HG23	16:At:233:TYR:HD1	1.80	0.46
5:B:87:GLU:OE1	9:VF:40:SER:HB2	2.16	0.46
18:B6:169:LYS:HD3	18:B6:169:LYS:HA	1.61	0.46
9:BB:184:ASN:N	9:BB:184:ASN:OD1	2.48	0.46
8:BG:68:VAL:HG22	8:BG:93:ILE:HB	1.97	0.46
8:BI:102:ASN:HA	8:BI:408:TYR:HE1	1.79	0.46
9:BJ:403:MET:H	9:BJ:403:MET:HG2	1.50	0.46
9:BL:236:VAL:HG12	9:BL:368:ILE:HD11	1.97	0.46
19:BR:373:ILE:HD11	8:MM:155:GLU:OE2	2.15	0.46
20:BT:111:ASN:OD1	20:BT:111:ASN:N	2.46	0.46
9:CH:31:ASP:OD2	9:CH:35:THR:N	2.48	0.46
2:Cd:17:LYS:HB3	2:Cd:17:LYS:HE3	1.75	0.46
2:Ci:26:PHE:CE1	2:Ci:30:LEU:HD22	2.50	0.46
2:Cj:22:GLN:HB3	2:Cj:66:ILE:HD11	1.97	0.46
33:Cv:423:LYS:HA	33:Cv:423:LYS:HE3	1.96	0.46
29:Cz:470:GLU:OE2	29:DR:441:ARG:NH1	2.47	0.46
29:D3:148:ARG:NH2	29:D4:411:CYS:SG	2.89	0.46
29:D4:154:PHE:O	29:D8:132:GLN:NE2	2.48	0.46
8:DA:53:PHE:HB3	8:DA:61:HIS:HB3	1.97	0.46
9:DD:260:PHE:HB2	9:DD:263:LEU:HD13	1.98	0.46
8:DG:167:LEU:HD13	8:DG:200:CYS:HB3	1.96	0.46
9:DH:347:ASN:O	8:DI:181:VAL:HG22	2.15	0.46
9:DL:323:MET:SD	8:DM:223:THR:HA	2.55	0.46
9:DN:170:VAL:HG11	9:DN:377:LEU:HD11	1.96	0.46
29:DW:356:VAL:HG21	29:DW:461:LYS:HZ1	1.80	0.46
29:DW:357:LYS:HG2	29:DW:361:GLN:NE2	2.28	0.46
29:DX:184:ALA:HB1	29:DX:233:ARG:HH12	1.80	0.46
35:DZ:33:GLN:OE1	35:DZ:68:SER:OG	2.33	0.46
35:Da:201:ARG:HD2	35:Da:204:SER:HB3	1.97	0.46
38:Dg:120:HIS:HD1	38:Dg:126:ILE:HG13	1.80	0.46
43:E2:48:ARG:NH1	28:F2:306:ASP:OD2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:E3:48:ARG:NE	28:F4:306:ASP:OD1	2.48	0.46
29:EA:327:LEU:O	29:EA:331:LEU:HB2	2.14	0.46
9:ED:215:LEU:HD11	9:ED:273:LEU:HD22	1.97	0.46
8:EE:271:THR:HB	8:EE:377:MET:HB3	1.97	0.46
8:EI:195:LEU:HG	8:EI:196:GLU:OE1	2.15	0.46
9:EJ:309:ARG:H	9:EJ:372:THR:HB	1.80	0.46
8:EM:362:VAL:HG13	8:EM:370:LYS:HZ3	1.80	0.46
9:EN:16:ILE:HA	9:EN:226:ASN:HD22	1.80	0.46
44:EY:186:ILE:HD11	44:EY:289:THR:HA	1.96	0.46
44:EY:278:LEU:HD12	44:EY:281:LEU:HD23	1.97	0.46
28:F2:202:ARG:HH21	28:F2:216:GLU:HG2	1.80	0.46
8:FE:132:LEU:HG	8:FE:164:LYS:NZ	2.30	0.46
9:FN:125:GLU:OE1	9:GN:336:LYS:NZ	2.44	0.46
9:GB:218:THR:OG1	9:GB:219:THR:N	2.48	0.46
9:GB:272:PRO:HG3	9:GB:364:SER:HA	1.98	0.46
9:GD:299:MET:HG3	9:GD:301:ALA:H	1.80	0.46
9:GF:406:MET:O	9:GF:409:THR:OG1	2.26	0.46
8:GM:326:LYS:HZ3	9:GN:220:PRO:HD2	1.80	0.46
9:HH:248:ALA:HA	9:HH:252:LYS:HE3	1.97	0.46
9:HJ:31:ASP:CG	9:HJ:33:THR:HG22	2.41	0.46
9:IB:226:ASN:HA	9:IB:229:VAL:HG12	1.97	0.46
8:IC:69:ASP:OD2	8:IC:70:LEU:N	2.48	0.46
9:IF:311:LEU:O	9:IF:348:ASN:ND2	2.43	0.46
8:IG:104:ALA:HA	8:IG:413:MET:HE3	1.97	0.46
9:IJ:215:LEU:HD21	9:IJ:273:LEU:HD22	1.98	0.46
8:IK:170:ALA:HB3	8:IK:203:MET:HE1	1.98	0.46
9:IL:11:GLN:HB2	9:IL:72:THR:HG21	1.97	0.46
8:IO:136:LEU:HD12	8:IO:167:LEU:HB2	1.97	0.46
8:IO:310:GLY:HA3	8:IO:383:ALA:HB2	1.97	0.46
8:JE:258:ASN:ND2	8:JE:352:LYS:HG3	2.31	0.46
9:JF:177:ASP:OD2	69:JF:501:GDP:O3'	2.32	0.46
9:JF:296:ALA:HB3	9:JF:306:ARG:NH1	2.31	0.46
8:JI:238:ILE:HD11	8:JI:378:LEU:HD21	1.96	0.46
9:JJ:392:LYS:HB2	9:JJ:392:LYS:HE3	1.70	0.46
9:KF:46:ARG:NH2	8:KG:76:ASP:OD2	2.45	0.46
8:KG:124:LYS:HA	8:KG:124:LYS:HD3	1.78	0.46
8:KG:220:GLU:HG3	8:KG:221:ARG:HG3	1.96	0.46
9:KJ:229:VAL:O	9:KJ:233:MET:HG3	2.16	0.46
9:KN:325:GLU:OE2	8:KO:221:ARG:NE	2.49	0.46
9:LB:33:THR:O	9:LB:58:LYS:NZ	2.48	0.46
9:LF:11:GLN:HA	9:LF:72:THR:HG21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LF:170:VAL:HG21	9:LF:377:LEU:HD11	1.96	0.46
9:LJ:67:ASP:OD2	9:LJ:68:LEU:N	2.48	0.46
8:MC:319:TYR:HB3	8:MC:323:VAL:HG21	1.96	0.46
9:MF:375:GLN:HG3	9:MF:379:LYS:HE2	1.97	0.46
9:MH:181:GLU:HG2	9:MH:182:PRO:HD3	1.96	0.46
9:MJ:237:THR:HB	9:MJ:240:LEU:HD12	1.97	0.46
8:MM:2:ARG:N	8:MM:3:GLU:OE2	2.49	0.46
8:NA:66:VAL:HG12	8:NA:91:GLN:HB2	1.97	0.46
9:NB:344:TRP:CD1	9:NB:345:ILE:HG13	2.51	0.46
8:NI:11:GLN:HG3	8:NI:74:VAL:HG11	1.96	0.46
8:NK:271:THR:HB	8:NK:377:MET:HB3	1.98	0.46
9:NL:384:GLN:O	9:NL:388:MET:HG2	2.16	0.46
51:O:55:PHE:HA	51:O:60:VAL:HG11	1.95	0.46
9:O0:21:TRP:O	9:O0:25:SER:OG	2.28	0.46
9:O0:207:LEU:HB3	9:O0:225:LEU:HG	1.97	0.46
9:OB:415:MET:SD	9:OB:415:MET:N	2.88	0.46
8:OC:88:HIS:NE2	8:PC:283:HIS:O	2.48	0.46
8:OE:69:ASP:O	8:OE:95:GLY:N	2.49	0.46
9:OF:271:ALA:O	9:OF:273:LEU:N	2.47	0.46
8:OG:219:ILE:HG12	8:OG:222:PRO:HD3	1.97	0.46
8:PC:105:ARG:HH12	8:PC:411:GLU:HG3	1.80	0.46
9:PD:151:LEU:HD22	9:PD:155:ILE:HD11	1.97	0.46
8:PE:267:PHE:HB3	8:PE:384:ILE:HD13	1.98	0.46
9:PF:258:VAL:HG21	9:PF:264:HIS:HB3	1.98	0.46
8:PG:119:LEU:HD13	8:PG:156:ARG:HH12	1.80	0.46
8:PG:267:PHE:HB3	8:PG:384:ILE:HD13	1.97	0.46
9:PL:251:ARG:O	9:PL:255:VAL:HG22	2.16	0.46
9:QB:207:LEU:HA	9:QB:210:ILE:HG22	1.98	0.46
9:QD:315:ALA:HB1	9:QD:317:PHE:HE1	1.81	0.46
9:QD:415:MET:O	9:QD:419:VAL:HG23	2.15	0.46
8:QG:204:VAL:HG13	8:QG:209:ILE:HD11	1.97	0.46
9:QJ:313:VAL:HG13	9:QJ:367:PHE:HE1	1.81	0.46
8:QM:103:TYR:HE1	8:QM:107:HIS:CD2	2.34	0.46
8:QM:210:TYR:HE1	8:QM:227:LEU:HD11	1.80	0.46
8:RA:241:SER:OG	8:RA:250:VAL:O	2.33	0.46
8:RC:320:ARG:O	8:RC:374:ALA:N	2.45	0.46
8:RG:7:ILE:HD11	8:RG:122:ILE:HD11	1.97	0.46
9:RH:318:ARG:HB2	9:RH:364:SER:HB3	1.97	0.46
9:SF:113:VAL:HG21	9:SF:150:LEU:HD22	1.97	0.46
9:SJ:156:ARG:HH22	9:SJ:197:ASP:CG	2.22	0.46
8:SK:234:ILE:HD11	8:SK:272:TYR:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TD:137:HIS:ND1	9:TD:144:GLY:O	2.48	0.46
8:TI:263:PRO:HD3	9:TJ:396:HIS:CE1	2.50	0.46
8:TK:269:LEU:HD21	8:TK:384:ILE:HD12	1.95	0.46
9:TL:219:THR:O	9:TL:219:THR:OG1	2.27	0.46
8:UI:305:CYS:SG	8:UI:306:ASP:N	2.88	0.46
9:UJ:290:THR:HG21	9:UJ:329:GLN:HB2	1.95	0.46
8:UK:326:LYS:HA	8:UK:326:LYS:HD2	1.79	0.46
9:UL:380:ARG:HA	9:UL:383:GLU:HG2	1.96	0.46
9:VD:378:PHE:HB3	9:VD:415:MET:HE1	1.98	0.46
8:VE:320:ARG:HD2	8:VE:360:PRO:HD3	1.98	0.46
8:VK:236:SER:O	8:VK:243:ARG:NH2	2.44	0.46
9:VL:100:ASN:HB3	9:VL:103:LYS:HZ1	1.79	0.46
8:VM:7:ILE:O	8:VM:138:PHE:N	2.44	0.46
9:WF:124:ALA:HB1	9:WF:130:LEU:HD11	1.97	0.46
8:WG:203:MET:HE1	8:WG:388:TRP:CH2	2.49	0.46
8:WI:242:LEU:HD11	8:WI:252:LEU:HG	1.97	0.46
9:WN:8:GLN:OE1	9:WN:136:THR:OG1	2.34	0.46
47:X:295:GLN:N	47:X:295:GLN:OE1	2.49	0.46
56:XG:16:SER:OG	56:XG:45:LEU:O	2.28	0.46
47:Y:118:ARG:NH2	47:Y:135:GLU:OE1	2.47	0.46
57:YL:145:VAL:HG12	57:YL:149:LEU:HD23	1.97	0.46
59:d:433:LEU:HD23	59:d:433:LEU:HA	1.77	0.46
60:f:34:LYS:HE3	60:f:34:LYS:HB3	1.76	0.46
60:f:100:ASP:OD1	60:f:101:TYR:N	2.45	0.46
62:j:165:ASP:OD1	62:j:166:HIS:N	2.48	0.46
6:A0:49:ARG:HH22	6:A0:52:CYS:N	2.13	0.46
9:AB:152:ILE:HG22	9:AB:195:ASN:HB3	1.96	0.46
8:AG:208:ALA:HA	8:AG:304:LYS:HZ3	1.80	0.46
8:AI:66:VAL:HA	8:AI:91:GLN:HB2	1.97	0.46
11:AT:134:ILE:HG13	27:Bs:324:LEU:HD12	1.97	0.46
11:AT:194:LYS:HE2	11:AT:194:LYS:HB2	1.74	0.46
12:AV:8:VAL:HG13	12:AV:79:GLY:HA3	1.97	0.46
12:AV:348:LYS:HB2	12:AV:348:LYS:HE3	1.68	0.46
12:AV:351:ILE:HG22	12:AV:352:GLN:HG2	1.97	0.46
13:Ac:55:PRO:HA	20:BS:368:GLN:HB2	1.96	0.46
15:Aq:122:ARG:HE	15:Aq:122:ARG:HB3	1.32	0.46
9:BB:326:VAL:O	9:BB:330:MET:HG2	2.16	0.46
8:BE:278:ALA:HA	8:BE:369:ALA:HB2	1.98	0.46
9:BH:20:PHE:HA	9:BH:230:SER:HB2	1.96	0.46
9:BL:101:TRP:HE3	9:BL:403:MET:HE1	1.80	0.46
9:BL:163:ILE:HD12	9:BL:164:MET:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BP:209:MET:HE1	19:BP:325:GLN:HB3	1.96	0.46
19:BQ:393:LEU:HD22	19:BQ:411:GLU:HG2	1.97	0.46
19:BR:164:ARG:HG3	19:BR:318:GLU:HG2	1.96	0.46
14:Be:235:MET:HG3	14:Be:239:ASP:HB3	1.97	0.46
21:Bj:255:ASN:ND2	21:Bj:257:GLN:OE1	2.48	0.46
28:C4:236:TYR:HE2	28:C4:324:ASP:HB3	1.80	0.46
8:CA:113:GLU:HG2	8:CA:114:ILE:HD12	1.98	0.46
9:CD:229:VAL:HA	9:CD:232:THR:HG22	1.97	0.46
8:CG:17:GLY:HA2	8:CG:20:CYS:HB3	1.98	0.46
9:CL:51:TYR:HB3	9:CL:59:TYR:HB3	1.96	0.46
9:CL:209:ASP:HB3	9:CL:213:ARG:HH22	1.80	0.46
8:CM:370:LYS:HB2	8:CM:370:LYS:HE2	1.73	0.46
14:CN:51:SER:OG	9:DB:38:GLY:O	2.27	0.46
2:CZ:132:ARG:NH1	8:OE:85:GLN:OE1	2.48	0.46
2:Ca:126:LEU:HD23	2:Ca:131:ALA:HB2	1.97	0.46
32:Cp:111:ILE:HD12	32:Cp:393:MET:HG2	1.97	0.46
33:Ct:231:ALA:O	33:Ct:235:LYS:HG2	2.16	0.46
8:DC:237:SER:HA	8:DC:240:ALA:HB2	1.97	0.46
9:DJ:64:VAL:HG12	9:DJ:89:ASN:HD22	1.79	0.46
8:DK:329:ASN:HB3	9:DL:175:VAL:HG11	1.98	0.46
8:DM:11:GLN:O	8:DM:15:GLN:HG3	2.15	0.46
8:DM:144:GLY:N	67:DM:501:GTP:O1B	2.48	0.46
29:DP:313:MET:HE3	29:DP:313:MET:HB3	1.75	0.46
38:Df:85:GLY:O	38:Df:87:PHE:N	2.49	0.46
29:EA:305:ASP:HA	29:EA:308:ARG:HB3	1.97	0.46
8:EC:20:CYS:O	8:EC:23:LEU:N	2.46	0.46
8:EC:316:CYS:SG	8:EC:352:LYS:HB3	2.56	0.46
9:EH:130:LEU:HB3	9:EH:162:ARG:HD2	1.98	0.46
9:EJ:39:ASP:OD1	9:EJ:39:ASP:N	2.45	0.46
9:EL:73:MET:CE	9:EL:92:PHE:HB3	2.46	0.46
44:ET:175:GLU:OE1	44:ET:175:GLU:N	2.43	0.46
44:EU:415:ASP:OD1	44:EU:415:ASP:N	2.48	0.46
28:F3:177:ILE:HG21	28:F3:322:ARG:HG3	1.97	0.46
8:FC:205:ASP:HB2	8:FC:303:VAL:HA	1.96	0.46
8:FC:205:ASP:N	8:FC:302:MET:O	2.38	0.46
8:FE:263:PRO:HG3	9:FF:396:HIS:CD2	2.50	0.46
9:FL:5:VAL:HG22	9:FL:62:ARG:HD3	1.97	0.46
9:FN:143:THR:N	69:FN:501:GDP:O2B	2.47	0.46
9:GF:30:ILE:HD11	9:GF:47:ILE:HD11	1.97	0.46
8:GI:207:GLU:HA	8:GI:210:TYR:HB2	1.97	0.46
9:HB:266:PHE:HE2	9:HB:370:ASN:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:180:ALA:HB3	8:HC:183:GLU:HG2	1.96	0.46
9:HD:362:LYS:HA	9:HD:362:LYS:HD3	1.64	0.46
8:HG:245:ASP:OD1	8:HG:245:ASP:N	2.49	0.46
8:HG:315:CYS:HB3	8:HG:351:PHE:HD1	1.80	0.46
9:HH:46:ARG:NH2	8:HI:76:ASP:OD2	2.48	0.46
9:IJ:326:VAL:O	9:IJ:330:MET:HG2	2.14	0.46
8:IK:201:ALA:HB1	8:IK:203:MET:HE3	1.97	0.46
9:IL:86:ARG:HH21	9:IL:88:ASP:HB2	1.81	0.46
8:IM:268:PRO:HA	8:IM:380:ASN:HA	1.98	0.46
8:IO:98:ASP:OD1	8:IO:100:ALA:N	2.48	0.46
9:JD:73:MET:HE3	9:JD:90:PHE:CD1	2.49	0.46
9:JD:135:LEU:HD22	9:JD:152:ILE:HD11	1.95	0.46
9:JH:67:ASP:OD1	9:JH:68:LEU:N	2.48	0.46
8:JI:205:ASP:HB2	8:JI:303:VAL:HA	1.96	0.46
9:JJ:46:ARG:NH2	8:JK:76:ASP:OD1	2.48	0.46
9:JJ:54:ALA:HA	9:MJ:283:ALA:HB2	1.95	0.46
9:JN:52:ASN:HB3	9:JN:60:VAL:HG23	1.96	0.46
9:JN:174:LYS:HB2	9:JN:174:LYS:HE3	1.75	0.46
8:KI:178:SER:OG	8:KI:179:THR:N	2.48	0.46
9:KJ:100:ASN:ND2	9:KJ:397:TRP:O	2.35	0.46
50:L1:98:SER:N	9:VB:355:ASP:OD2	2.42	0.46
8:LC:138:PHE:HE2	8:LC:235:VAL:HG21	1.79	0.46
8:LG:46:ASP:OD1	8:LG:46:ASP:N	2.47	0.46
8:LG:288:VAL:O	8:LG:292:THR:OG1	2.25	0.46
9:LJ:372:THR:HG21	9:LJ:426:GLN:HB2	1.97	0.46
8:LK:264:ARG:HD3	54:S:249:LEU:HD21	1.96	0.46
8:LK:265:ILE:HG21	8:LK:313:MET:HE1	1.98	0.46
9:LN:67:ASP:OD1	9:LN:68:LEU:N	2.48	0.46
9:MB:116:VAL:HG21	9:MB:147:MET:HE1	1.96	0.46
9:MD:171:PRO:HG2	9:MD:185:ALA:HB2	1.97	0.46
9:MD:309:ARG:H	9:MD:372:THR:HG22	1.80	0.46
9:MD:362:LYS:HE3	9:MD:362:LYS:HB3	1.84	0.46
9:MF:31:ASP:HB3	9:MF:37:HIS:CD2	2.51	0.46
8:MI:152:LEU:O	8:MI:156:ARG:HG2	2.16	0.46
8:MI:319:TYR:HB2	8:MI:355:ILE:HD13	1.97	0.46
9:MJ:114:ASP:OD1	9:MJ:115:SER:N	2.48	0.46
8:NA:143:GLY:O	8:NA:186:ASN:ND2	2.48	0.46
8:NC:251:ASP:N	8:NC:254:GLU:OE1	2.48	0.46
8:NE:317:MET:SD	8:NE:317:MET:N	2.89	0.46
9:NH:172:SER:HB3	9:NH:205:GLU:HG3	1.97	0.46
8:NK:65:ALA:O	8:NK:91:GLN:NE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OF:192:LEU:HD22	9:OF:196:THR:HG21	1.96	0.46
8:OK:77:GLU:HA	8:OK:80:THR:HG22	1.97	0.46
8:PA:258:ASN:HD22	8:PA:352:LYS:HG2	1.81	0.46
9:PB:172:SER:OG	9:PB:203:ASP:OD1	2.27	0.46
9:PB:257:MET:SD	9:PB:314:ALA:HB2	2.55	0.46
8:PE:132:LEU:O	8:PE:164:LYS:NZ	2.48	0.46
9:PH:237:THR:OG1	9:PH:241:ARG:NH1	2.48	0.46
8:PI:147:SER:OG	8:PI:190:THR:OG1	2.26	0.46
8:PM:377:MET:HG2	8:PM:379:SER:HB2	1.97	0.46
8:QA:209:ILE:HG22	8:QA:212:ILE:HD11	1.97	0.46
8:QE:220:GLU:OE2	8:QE:220:GLU:N	2.48	0.46
9:QF:286:VAL:HG13	9:QF:363:MET:HE2	1.97	0.46
8:QG:210:TYR:HE1	8:QG:227:LEU:HD11	1.81	0.46
9:QJ:14:ASN:ND2	9:QJ:67:ASP:OD2	2.39	0.46
9:QJ:152:ILE:HG23	9:QJ:164:MET:HG2	1.97	0.46
8:QK:241:SER:HA	8:QK:356:ASN:HD22	1.81	0.46
8:RA:381:THR:HG22	8:RA:383:ALA:H	1.80	0.46
8:RC:280:LYS:HA	8:RC:280:LYS:HD3	1.82	0.46
9:RD:372:THR:HA	9:RD:422:TYR:CE2	2.50	0.46
8:RE:326:LYS:HA	9:RF:208:TYR:CE2	2.51	0.46
9:RL:135:LEU:HD23	9:RL:166:THR:HG22	1.98	0.46
8:SA:269:LEU:HD11	8:SA:384:ILE:HG21	1.97	0.46
9:SB:65:LEU:HD12	9:SB:90:PHE:HE1	1.81	0.46
9:SF:144:GLY:N	69:SF:501:GDP:O1B	2.43	0.46
9:SF:202:ILE:HD11	9:SF:268:PRO:HG2	1.97	0.46
8:SG:8:HIS:HB3	8:SG:13:GLY:C	2.41	0.46
8:SG:35:GLN:NE2	8:TG:282:TYR:OH	2.31	0.46
9:SL:49:VAL:HG11	9:SL:241:ARG:HB3	1.97	0.46
8:SM:202:PHE:HB3	8:SM:268:PRO:HG2	1.98	0.46
8:SM:317:MET:HB3	8:SM:319:TYR:CE1	2.50	0.46
8:TC:132:LEU:O	8:TC:164:LYS:NZ	2.37	0.46
9:TF:68:LEU:HB3	9:TF:96:GLY:HA2	1.98	0.46
9:TJ:248:ALA:HA	9:TJ:252:LYS:HD2	1.96	0.46
9:TJ:258:VAL:HG11	9:TJ:264:HIS:HA	1.97	0.46
9:UD:139:LEU:HA	9:UD:145:SER:HB2	1.98	0.46
9:UL:28:HIS:NE2	9:UL:241:ARG:HD3	2.30	0.46
9:VB:198:GLU:N	9:VB:198:GLU:OE1	2.48	0.46
8:VC:238:ILE:HD11	8:VC:378:LEU:HD21	1.97	0.46
8:VC:372:GLN:OE1	59:a:197:LEU:HD21	2.16	0.46
9:VD:73:MET:HA	9:VD:76:VAL:HB	1.97	0.46
8:VG:103:TYR:CZ	8:VG:107:HIS:HD2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VK:237:SER:HA	8:VK:240:ALA:HB2	1.98	0.46
8:WE:139:HIS:ND1	8:WE:146:GLY:O	2.48	0.46
9:WF:375:GLN:O	9:WF:379:LYS:HG2	2.16	0.46
8:WG:60:LYS:NZ	8:WG:85:GLN:O	2.39	0.46
8:WI:278:ALA:HB1	60:f:461:LYS:HD2	1.98	0.46
8:WI:316:CYS:HA	8:WI:352:LYS:HB3	1.95	0.46
56:XI:49:ILE:HG13	56:XI:158:ALA:HA	1.97	0.46
47:Y:292:MET:SD	47:Y:295:GLN:NE2	2.80	0.46
47:Y:295:GLN:N	47:Y:295:GLN:OE1	2.49	0.46
57:YG:245:LYS:NZ	57:YG:252:GLU:OE2	2.37	0.46
60:e:382:GLY:O	60:e:395:ALA:N	2.45	0.46
63:k:24:ILE:HD12	63:k:25:THR:OG1	2.16	0.46
2:0g:64:ARG:O	2:0g:68:LEU:HB2	2.16	0.46
2:0i:148:LEU:HD12	2:0i:148:LEU:HA	1.83	0.46
7:A8:126:ALA:O	9:TL:306:ARG:NH2	2.45	0.46
9:AD:64:VAL:HG12	9:AD:89:ASN:HB3	1.98	0.46
9:AD:117:LEU:HD21	9:AD:154:LYS:HD3	1.97	0.46
9:AD:164:MET:HE2	9:AD:164:MET:HB2	1.75	0.46
9:AH:271:ALA:HB2	9:AH:293:MET:HE2	1.98	0.46
9:AJ:45:GLU:OE2	14:Bc:222:TYR:OH	2.21	0.46
8:AK:209:ILE:HB	8:AK:227:LEU:HG	1.97	0.46
11:AT:260:GLU:OE2	29:DX:168:ASN:ND2	2.44	0.46
12:AW:108:GLU:O	12:AW:112:ILE:HG13	2.16	0.46
13:Aa:622:GLU:HA	13:Aa:625:ILE:HG22	1.97	0.46
13:Ab:422:PHE:N	13:Ab:440:ILE:O	2.43	0.46
15:Aq:124:HIS:HA	15:Aq:132:VAL:HG21	1.97	0.46
18:B5:215:GLN:OE1	9:VJ:77:ARG:NH2	2.47	0.46
8:BG:121:ARG:HH12	8:BG:124:LYS:HG2	1.80	0.46
9:BH:237:THR:O	9:BH:237:THR:OG1	2.32	0.46
19:BP:316:LYS:NZ	19:BP:317:ASN:OD1	2.48	0.46
19:BQ:418:GLY:HA2	19:BQ:421:LYS:NZ	2.31	0.46
20:BT:205:THR:OG1	20:BT:206:GLY:N	2.48	0.46
21:BU:25:ARG:HH21	21:BU:29:ILE:HG13	1.79	0.46
14:Ba:196:THR:OG1	33:Cw:422:LEU:O	2.24	0.46
14:Bb:93:LYS:HD2	14:Bb:93:LYS:HA	1.79	0.46
8:CA:318:LEU:HB2	8:CA:376:CYS:HB3	1.97	0.46
8:CC:236:SER:OG	8:CC:243:ARG:NH2	2.41	0.46
9:CJ:251:ARG:HH22	8:CK:407:TRP:HZ3	1.63	0.46
2:CT:130:GLU:HA	2:CT:134:HIS:ND1	2.31	0.46
2:CV:79:LYS:HA	2:CV:79:LYS:HD2	1.70	0.46
2:CZ:66:ILE:HD12	2:CZ:66:ILE:HA	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Cn:109:LEU:O	32:Cn:113:GLU:HG2	2.16	0.46
33:Cv:30:ARG:NH2	33:Cv:33:ASP:OD2	2.48	0.46
29:Cz:463:ASN:O	29:Cz:467:ILE:HG23	2.15	0.46
29:D2:173:LEU:HD12	29:D2:321:ARG:NH2	2.30	0.46
29:D3:421:ASN:O	29:D3:425:THR:HG23	2.15	0.46
8:DA:94:THR:O	8:DA:94:THR:OG1	2.32	0.46
8:DA:320:ARG:HG3	8:DA:360:PRO:HD3	1.97	0.46
8:DG:392:ASP:HB2	8:DG:422:ARG:NH2	2.30	0.46
9:DJ:61:PRO:HD3	9:DJ:84:ILE:HG22	1.98	0.46
9:DL:36:TYR:OH	9:DL:40:SER:O	2.33	0.46
9:DL:350:LYS:HD2	9:DL:351:THR:N	2.31	0.46
29:DV:133:LEU:O	29:DV:137:MET:HG2	2.15	0.46
8:EC:26:LEU:HD21	8:EC:364:PRO:HD3	1.97	0.46
8:EC:52:PHE:HE2	8:EC:239:THR:HG21	1.81	0.46
9:EH:417:ASP:OD1	9:EH:418:LEU:N	2.49	0.46
8:EK:198:SER:OG	8:EK:200:CYS:O	2.33	0.46
9:EL:152:ILE:HG12	9:EL:164:MET:HE2	1.98	0.46
8:EM:203:MET:HA	8:EM:203:MET:HE3	1.96	0.46
8:EM:311:LYS:HD2	8:EM:342:GLN:HG2	1.98	0.46
9:EN:219:THR:O	9:EN:219:THR:OG1	2.25	0.46
44:EW:152:VAL:HG23	44:EW:176:LEU:HD22	1.97	0.46
44:EX:250:SER:HB3	44:EZ:8:LEU:HD13	1.96	0.46
9:FB:237:THR:HG22	9:FB:250:LEU:HD11	1.96	0.46
8:FE:316:CYS:HA	8:FE:352:LYS:HB2	1.98	0.46
8:FI:70:LEU:HA	8:FI:95:GLY:H	1.80	0.46
8:GC:286:LEU:O	8:GC:373:ARG:NH1	2.48	0.46
8:GC:317:MET:HE2	8:GC:317:MET:HB3	1.79	0.46
9:GF:7:LEU:HB2	9:GF:135:LEU:HD13	1.96	0.46
8:GG:205:ASP:HB2	8:GG:303:VAL:HG13	1.98	0.46
9:GJ:167:PHE:CE2	9:GJ:233:MET:HB2	2.51	0.46
9:GL:395:LEU:HD22	9:GL:399:THR:HG23	1.98	0.46
8:GM:326:LYS:HZ3	9:GN:220:PRO:CD	2.29	0.46
8:GM:396:ASP:N	8:GM:396:ASP:OD1	2.45	0.46
9:HD:133:PHE:HB2	9:HD:164:MET:HE1	1.98	0.46
9:HD:194:GLU:C	9:HD:195:ASN:HD22	2.23	0.46
9:HN:334:GLN:NE2	9:HN:348:ASN:OD1	2.48	0.46
9:IF:229:VAL:HG12	9:IF:300:MET:HE3	1.98	0.46
9:IH:100:ASN:HD22	9:IH:103:LYS:HG3	1.80	0.46
9:IN:90:PHE:O	51:O:33:ARG:NE	2.48	0.46
9:IN:107:THR:OG1	9:IN:108:GLU:OE2	2.34	0.46
48:J:125:ARG:HG2	48:J:127:THR:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JB:265:PHE:HB3	9:JB:374:ILE:HD13	1.98	0.46
9:JN:145:SER:O	9:JN:149:THR:OG1	2.29	0.46
49:K1:37:TYR:HD2	59:d:441:ARG:HE	1.62	0.46
49:K1:126:TRP:HZ2	9:TL:94:GLN:CD	2.22	0.46
8:KO:277:SER:OG	8:KO:279:GLU:OE1	2.30	0.46
9:MB:152:ILE:HG23	9:MB:164:MET:HE2	1.97	0.46
9:MB:262:ARG:NE	9:MB:421:GLU:OE1	2.27	0.46
8:ME:319:TYR:HB3	8:ME:323:VAL:HG21	1.97	0.46
9:MJ:143:THR:O	9:MJ:147:MET:CB	2.64	0.46
9:N0:19:LYS:HZ3	9:N0:227:HIS:HB2	1.80	0.46
9:NB:43:GLN:H	9:NB:43:GLN:HG2	1.56	0.46
9:NF:228:LEU:HG	9:NF:300:MET:HE1	1.98	0.46
9:OB:184:ASN:OD1	9:OB:398:TYR:OH	2.32	0.46
8:OC:3:GLU:HA	8:OC:51:THR:HA	1.97	0.46
9:OF:2:ARG:HD2	9:OF:131:GLN:HE22	1.81	0.46
8:PE:183:GLU:O	8:PE:187:SER:OG	2.29	0.46
8:PE:260:VAL:HA	8:PE:261:PRO:HG2	1.95	0.46
8:PK:288:VAL:HA	8:PK:291:ILE:HG22	1.98	0.46
9:QB:31:ASP:OD2	9:QB:35:THR:N	2.47	0.46
9:QB:324:LYS:NZ	8:QC:220:GLU:OE1	2.47	0.46
9:QD:120:VAL:O	9:QD:124:ALA:CB	2.64	0.46
8:QE:138:PHE:HZ	8:QE:235:VAL:HG11	1.81	0.46
9:QJ:7:LEU:HB3	9:QJ:135:LEU:HD12	1.96	0.46
8:QK:269:LEU:HD21	8:QK:301:GLN:HG2	1.97	0.46
8:RA:15:GLN:O	8:RA:228:ASN:ND2	2.48	0.46
8:RA:344:VAL:HG22	8:RA:346:TRP:H	1.80	0.46
9:RB:42:LEU:HD12	9:RB:43:GLN:HG3	1.96	0.46
9:RH:6:HIS:HB3	9:RH:63:ALA:HA	1.97	0.46
8:RK:392:ASP:OD1	8:RK:422:ARG:NH1	2.48	0.46
8:SE:175:PRO:HB3	8:SE:390:ARG:HE	1.81	0.46
8:SG:33:ASP:OD1	8:SG:33:ASP:N	2.49	0.46
8:SI:70:LEU:HB3	8:SI:98:ASP:HA	1.98	0.46
8:TC:4:CYS:HB3	8:TC:136:LEU:HD13	1.97	0.46
9:TD:55:THR:H	9:UD:283:ALA:HA	1.80	0.46
9:TF:406:MET:O	9:TF:409:THR:OG1	2.27	0.46
8:TG:164:LYS:HA	8:TG:164:LYS:HD3	1.69	0.46
9:TL:55:THR:HG23	9:UL:283:ALA:HA	1.98	0.46
9:UD:33:THR:O	9:UD:58:LYS:NZ	2.47	0.46
9:UJ:173:PRO:HB3	9:UJ:380:ARG:HD3	1.97	0.46
9:UJ:271:ALA:HB2	9:UJ:293:MET:SD	2.55	0.46
9:VB:19:LYS:HA	9:VB:22:GLU:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VB:200:TYR:HE1	9:VB:266:PHE:HD2	1.62	0.46
8:VG:153:LEU:O	8:VG:157:LEU:HD22	2.16	0.46
8:VG:356:ASN:OD1	8:VG:357:TYR:N	2.49	0.46
9:VJ:278:SER:O	9:VJ:278:SER:OG	2.30	0.46
9:WB:165:ASN:HD21	9:WB:250:LEU:HD13	1.80	0.46
9:WB:214:THR:OG1	9:WB:297:LYS:NZ	2.49	0.46
9:WD:1:MET:HE3	9:WD:46:ARG:HD2	1.98	0.46
8:WE:196:GLU:OE2	8:WE:197:HIS:ND1	2.49	0.46
9:WH:237:THR:HG22	9:WH:250:LEU:HD21	1.97	0.46
9:WH:308:GLY:HA3	9:WH:373:ALA:HB2	1.97	0.46
8:WI:317:MET:HB2	8:WI:352:LYS:O	2.15	0.46
8:WK:68:VAL:HG12	8:WK:93:ILE:HB	1.98	0.46
8:WM:265:ILE:HD11	8:WM:435:VAL:HG21	1.97	0.46
9:WN:322:SER:OG	9:WN:325:GLU:OE1	2.33	0.46
56:XM:171:LEU:HD23	56:XM:171:LEU:H	1.81	0.46
57:YI:132:HIS:CE1	57:YI:171:VAL:HG12	2.50	0.46
60:g:458:GLU:HG3	60:g:460:LEU:HD13	1.97	0.46
62:j:52:ARG:HH22	62:j:153:GLY:HA2	1.79	0.46
66:u:268:LYS:HB3	66:u:268:LYS:HE3	1.59	0.46
2:0C:34:ARG:HH21	2:0C:40:LYS:HA	1.80	0.46
2:0Y:44:ILE:HD11	2:0Y:137:GLY:HA3	1.98	0.46
6:A0:162:TYR:OH	8:HE:160:ASP:OD1	2.33	0.46
7:A1:54:ARG:HD2	9:PJ:297:LYS:HE2	1.97	0.46
7:A1:230:ARG:HH22	8:PA:215:ARG:HA	1.81	0.46
7:A9:28:PRO:HB3	8:SE:123:ARG:NH2	2.31	0.46
8:AC:135:PHE:HD2	8:AC:166:LYS:HE3	1.80	0.46
9:AD:103:LYS:HB3	9:AD:103:LYS:HE2	1.75	0.46
9:AD:262:ARG:NH1	57:YK:246:TYR:O	2.47	0.46
8:AE:219:ILE:HG21	8:AE:222:PRO:HB3	1.98	0.46
9:AF:64:VAL:HG11	9:AF:120:VAL:HG12	1.96	0.46
9:AL:334:GLN:NE2	9:AL:348:ASN:HD22	2.14	0.46
8:AM:277:SER:OG	8:AM:278:ALA:N	2.49	0.46
10:AQ:2:ALA:HA	8:KK:348:PRO:HA	1.98	0.46
12:AW:86:GLN:C	12:AW:90:LYS:HZ1	2.19	0.46
13:Ac:49:GLY:HA2	32:Cm:26:ARG:HH21	1.80	0.46
13:Ad:583:GLN:O	13:Ad:587:THR:HG23	2.16	0.46
7:Aw:45:LYS:HD2	8:OE:214:ARG:CZ	2.46	0.46
16:Ax:79:HIS:CD2	16:Ax:85:ARG:HG3	2.51	0.46
7:Ay:201:THR:O	9:GB:337:ASN:ND2	2.45	0.46
18:B5:50:LYS:NZ	9:LH:125:GLU:OE1	2.48	0.46
8:BA:206:ASN:OD1	67:BA:501:GTP:O2'	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BF:7:LEU:HD12	9:BF:135:LEU:HD12	1.98	0.46
9:BJ:52:ASN:OD1	9:BJ:62:ARG:NH2	2.35	0.46
20:BT:193:LEU:HD11	32:Cm:325:ASN:HB2	1.97	0.46
21:BV:173:GLY:HA3	26:Bu:334:LYS:HE3	1.98	0.46
21:BV:289:ARG:HG2	35:Da:92:LEU:HD11	1.97	0.46
23:Bg:72:GLU:HG2	8:GM:364:PRO:HG3	1.96	0.46
21:Bj:206:ARG:HA	21:Bj:206:ARG:HD3	1.82	0.46
26:Bq:114:LYS:O	26:Bq:118:GLU:CB	2.63	0.46
18:Bz:94:ARG:O	18:Bz:94:ARG:NE	2.48	0.46
5:C:122:PRO:HA	5:C:125:ARG:HG2	1.98	0.46
28:C9:460:ALA:HB1	28:F3:266:ARG:HH22	1.80	0.46
9:CB:215:LEU:HD12	9:CB:215:LEU:HA	1.77	0.46
9:CB:257:MET:HA	9:CB:312:THR:HG21	1.98	0.46
8:CK:129:CYS:HB3	8:CK:132:LEU:HB2	1.98	0.46
8:CM:226:ASN:N	8:CM:226:ASN:ND2	2.61	0.46
2:CT:71:LEU:HD13	2:CT:71:LEU:HA	1.71	0.46
33:Cr:300:LEU:HD11	33:Cr:352:LEU:HD22	1.98	0.46
29:D8:394:VAL:HG12	29:D9:280:ILE:HD13	1.98	0.46
29:D8:477:LYS:HE3	29:D8:477:LYS:HB2	1.74	0.46
9:DB:257:MET:SD	9:DB:312:THR:OG1	2.73	0.46
9:DB:308:GLY:HA3	9:DB:373:ALA:HB2	1.97	0.46
9:DB:406:MET:SD	9:DB:406:MET:N	2.88	0.46
9:DF:7:LEU:HB2	9:DF:135:LEU:HB2	1.98	0.46
9:DH:156:ARG:NE	9:DH:195:ASN:O	2.48	0.46
9:DH:311:LEU:HD23	9:DH:342:VAL:HG11	1.98	0.46
9:DJ:259:PRO:HB3	8:DK:403:ALA:HB1	1.98	0.46
8:DK:10:GLY:HA2	8:DK:145:THR:HG23	1.96	0.46
8:DK:242:LEU:HD11	8:DK:252:LEU:HB2	1.97	0.46
29:DW:358:ASN:O	29:DW:362:THR:HG23	2.16	0.46
36:Dd:185:ALA:HB3	9:WN:94:GLN:HG2	1.98	0.46
37:De:238:ARG:HH22	8:TM:245:ASP:HB3	1.80	0.46
8:EI:188:ILE:HD12	8:EI:425:LEU:HG	1.98	0.46
9:EL:40:SER:OG	9:EL:41:ASP:N	2.48	0.46
29:EQ:210:VAL:HG23	29:EQ:212:ASP:HB2	1.97	0.46
44:EU:137:ARG:NH2	44:EU:447:GLN:O	2.49	0.46
44:EX:191:LYS:HB2	44:EX:191:LYS:HE3	1.59	0.46
42:F:690:ARG:O	42:F:690:ARG:NH1	2.48	0.46
28:F3:116:ASN:HA	28:F3:119:ARG:NH1	2.31	0.46
28:F4:389:LYS:HB2	28:F4:431:ILE:HD11	1.96	0.46
9:FD:14:ASN:ND2	9:FD:73:MET:HE1	2.30	0.46
8:FE:164:LYS:HD2	8:FE:165:SER:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FE:258:ASN:HD22	8:FE:352:LYS:HD2	1.81	0.46
9:FJ:117:LEU:O	9:FJ:121:ARG:HB3	2.14	0.46
9:FL:181:GLU:HG3	9:FL:182:PRO:HD3	1.98	0.46
8:FM:394:LYS:HE3	8:FM:394:LYS:HB2	1.76	0.46
9:FN:253:LEU:O	9:FN:257:MET:HB2	2.16	0.46
45:G:7:GLN:HA	45:G:8:PRO:HD3	1.83	0.46
9:GB:3:GLU:OE1	9:GB:3:GLU:N	2.42	0.46
8:GG:231:ILE:O	8:GG:235:VAL:HG23	2.16	0.46
8:GM:260:VAL:HG23	9:GN:397:TRP:HE1	1.80	0.46
9:HB:376:GLU:HA	9:HB:379:LYS:NZ	2.31	0.46
8:HI:241:SER:HB2	8:HI:250:VAL:H	1.81	0.46
8:HK:276:ILE:HG13	8:HK:280:LYS:HG3	1.96	0.46
9:ID:46:ARG:HB2	9:ID:241:ARG:HA	1.97	0.46
9:ID:114:ASP:OD1	9:ID:114:ASP:N	2.49	0.46
9:ID:266:PHE:HE1	9:ID:370:ASN:HD22	1.64	0.46
9:IH:121:ARG:O	9:IH:125:GLU:HG2	2.16	0.46
9:IN:209:ASP:OD1	9:IN:213:ARG:NH2	2.48	0.46
8:IO:175:PRO:HG3	8:IO:304:LYS:HB3	1.98	0.46
9:JD:100:ASN:HB3	9:JD:103:LYS:HG2	1.97	0.46
9:JJ:180:VAL:HG22	9:JJ:183:TYR:HB2	1.97	0.46
9:JJ:392:LYS:HE2	58:Z:97:CYS:HA	1.98	0.46
8:KE:326:LYS:HG3	9:KF:212:PHE:HZ	1.80	0.46
8:KI:242:LEU:HD11	8:KI:252:LEU:HD13	1.98	0.46
9:LD:330:MET:HB3	9:LD:349:VAL:HG11	1.98	0.46
8:LG:42:ILE:HD12	8:LG:43:GLY:N	2.31	0.46
9:LH:383:GLU:HA	9:LH:386:THR:HG22	1.96	0.46
8:LI:70:LEU:HD12	8:LI:145:THR:HG22	1.98	0.46
8:LI:265:ILE:HG23	8:LI:432:TYR:CZ	2.51	0.46
9:LJ:317:PHE:HB2	9:LJ:353:VAL:HG22	1.96	0.46
9:MB:213:ARG:HH21	9:MB:297:LYS:HG2	1.79	0.46
8:MG:202:PHE:HE2	8:MG:378:LEU:HD22	1.80	0.46
9:ML:406:MET:SD	9:ML:406:MET:N	2.86	0.46
8:MM:134:GLY:HA3	8:MM:165:SER:HB3	1.98	0.46
8:NA:88:HIS:H	8:NA:91:GLN:HE22	1.63	0.46
8:NC:286:LEU:O	8:NC:373:ARG:NH2	2.47	0.46
9:NF:256:ASN:HB3	8:NG:181:VAL:HG12	1.97	0.46
8:NK:81:GLY:O	8:NK:84:ARG:HD3	2.15	0.46
9:O0:6:HIS:HD2	9:O0:21:TRP:HE1	1.64	0.46
8:OK:195:LEU:HD11	8:OK:428:LEU:HD22	1.98	0.46
9:OL:10:GLY:O	9:OL:14:ASN:ND2	2.41	0.46
8:PA:187:SER:O	8:PA:190:THR:OG1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PD:249:ASP:OD1	9:PD:250:LEU:N	2.47	0.46
9:PJ:178:THR:HB	9:PJ:181:GLU:HG2	1.98	0.46
8:PM:164:LYS:HE3	8:PM:164:LYS:HB2	1.71	0.46
9:QB:167:PHE:HA	9:QB:200:TYR:HB2	1.97	0.46
9:QF:347:ASN:HD22	8:QG:181:VAL:HA	1.80	0.46
9:QH:238:THR:HB	9:QH:318:ARG:HH11	1.80	0.46
9:QH:333:VAL:HG22	9:QH:341:PHE:HZ	1.80	0.46
8:QI:239:THR:HG23	8:QI:243:ARG:NH2	2.30	0.46
9:QJ:2:ARG:HG3	9:QJ:240:LEU:HD21	1.97	0.46
9:QL:272:PRO:HG3	9:QL:289:LEU:HD21	1.97	0.46
9:RB:15:GLN:HG3	9:RB:226:ASN:HD21	1.81	0.46
9:RD:130:LEU:O	9:RD:162:ARG:NE	2.48	0.46
8:RE:140:SER:O	8:RE:147:SER:OG	2.31	0.46
9:RF:392:LYS:HD3	9:RF:395:LEU:HD22	1.98	0.46
8:RG:234:ILE:HD11	8:RG:272:TYR:HB2	1.96	0.46
9:RH:232:THR:HA	9:RH:270:PHE:CE1	2.51	0.46
8:RM:318:LEU:HB2	8:RM:376:CYS:HB3	1.96	0.46
8:SA:88:HIS:HE1	8:SA:90:GLU:HB2	1.81	0.46
9:SB:202:ILE:HD12	9:SB:203:ASP:H	1.81	0.46
8:SC:217:LEU:HD13	8:SC:275:VAL:HG22	1.98	0.46
8:SC:307:PRO:HB3	8:SC:381:THR:HG21	1.97	0.46
8:SE:311:LYS:H	8:SE:382:THR:HB	1.80	0.46
8:SI:263:PRO:HG3	9:SJ:396:HIS:CD2	2.50	0.46
9:SJ:363:MET:HB2	9:SJ:363:MET:HE3	1.69	0.46
9:SL:290:THR:HG21	9:SL:329:GLN:HB3	1.96	0.46
8:SM:6:SER:OG	8:SM:8:HIS:NE2	2.48	0.46
8:TC:69:ASP:OD1	8:TC:70:LEU:N	2.49	0.46
8:TE:98:ASP:OD2	8:TE:100:ALA:N	2.40	0.46
9:TF:237:THR:O	9:TF:241:ARG:NE	2.46	0.46
9:TH:318:ARG:HE	9:TH:318:ARG:HB3	1.63	0.46
9:TL:143:THR:HA	9:TL:147:MET:HE1	1.97	0.46
54:U:244:LYS:HB3	54:U:244:LYS:HE2	1.61	0.46
9:UD:95:SER:OG	9:UD:108:GLU:OE2	2.34	0.46
9:UD:237:THR:O	9:UD:241:ARG:NH1	2.49	0.46
8:UE:206:ASN:OD1	67:UE:501:GTP:N2	2.48	0.46
8:UI:187:SER:O	8:UI:191:THR:HG22	2.15	0.46
9:UL:246:LEU:HD21	8:UM:179:THR:HG21	1.97	0.46
9:VF:2:ARG:HD2	9:VF:131:GLN:HE21	1.79	0.46
9:VN:107:THR:OG1	9:VN:108:GLU:N	2.49	0.46
8:WC:8:HIS:HA	8:WC:138:PHE:HB2	1.98	0.46
8:WG:328:VAL:O	8:WG:332:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WJ:20:PHE:CG	9:WJ:233:MET:HE2	2.50	0.46
8:WK:90:GLU:HG3	8:WK:121:ARG:HE	1.80	0.46
9:WL:102:ALA:HB1	9:WL:401:GLU:HG3	1.98	0.46
9:WL:198:GLU:OE2	9:WL:200:TYR:OH	2.24	0.46
9:WN:324:LYS:HB3	9:WN:324:LYS:HE2	1.74	0.46
47:X:420:LEU:HB2	47:X:442:TYR:HB3	1.96	0.46
56:XG:78:MET:SD	56:XG:80:ILE:HD11	2.56	0.46
56:XH:115:LYS:O	56:XH:144:TYR:OH	2.27	0.46
56:XL:113:ARG:HH12	56:XL:115:LYS:HE2	1.80	0.46
56:XM:76:LEU:HG	56:XM:167:PHE:CE2	2.51	0.46
57:YG:128:ARG:HD3	57:YG:167:VAL:HG21	1.97	0.46
59:c:107:PHE:O	59:c:111:LYS:HG3	2.16	0.46
59:d:431:HIS:O	59:d:435:VAL:HG23	2.16	0.46
60:g:475:SER:O	60:g:477:GLU:N	2.49	0.46
46:o:181:LEU:O	46:o:184:GLU:HG3	2.16	0.46
2:0a:63:ASP:OD1	2:0a:63:ASP:N	2.48	0.46
2:0g:27:ILE:HG23	2:0g:135:TYR:CD2	2.51	0.46
2:0i:8:SER:O	2:0i:12:VAL:HG23	2.15	0.46
7:A3:221:HIS:O	8:QC:308:ARG:NH2	2.42	0.46
7:A7:103:PRO:HA	8:RG:123:ARG:HE	1.81	0.46
7:A8:124:ILE:H	7:A8:124:ILE:HD12	1.80	0.46
7:A8:182:PRO:HG2	8:TI:341:ILE:HD11	1.97	0.46
8:AA:93:ILE:HD11	8:AA:121:ARG:HG3	1.98	0.46
8:AG:214:ARG:HH22	65:r:87:PHE:C	2.24	0.46
13:Ad:130:ASP:OD1	13:Ad:130:ASP:N	2.46	0.46
7:Ay:166:ARG:NH2	9:GD:301:ALA:O	2.49	0.46
18:B6:243:ASP:OD2	46:o:173:ARG:NH2	2.49	0.46
8:BE:27:GLU:OE2	8:BE:236:SER:OG	2.34	0.46
8:BI:349:THR:OG1	8:BI:350:GLY:N	2.47	0.46
8:BM:109:THR:HA	8:BM:112:LYS:HE2	1.97	0.46
8:BM:195:LEU:HD11	8:BM:428:LEU:HD12	1.98	0.46
19:BO:279:LYS:HD2	19:BO:279:LYS:HA	1.72	0.46
19:BP:97:LYS:HA	19:BP:97:LYS:HD3	1.69	0.46
14:Bd:239:ASP:HA	14:Bd:242:THR:HG22	1.98	0.46
14:Be:275:THR:O	14:Be:278:ARG:NH2	2.48	0.46
24:Bh:35:PHE:HD2	9:GF:361:LEU:HD13	1.80	0.46
21:Bj:128:ASP:OD1	9:KF:276:ARG:NH1	2.48	0.46
27:Bs:360:ALA:O	27:Bs:364:LEU:HD12	2.16	0.46
18:By:124:PRO:HG3	8:LC:109:THR:HG22	1.97	0.46
28:C9:302:LYS:HA	28:C9:302:LYS:HD3	1.63	0.46
9:CF:1:MET:O	8:CG:96:LYS:NZ	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CF:136:THR:HB	9:CF:167:PHE:HB2	1.97	0.46
9:CF:389:PHE:HE1	9:CF:408:PHE:HD2	1.64	0.46
8:CG:259:LEU:HD11	8:CG:316:CYS:HB2	1.97	0.46
8:CI:267:PHE:HB3	8:CI:384:ILE:HD13	1.98	0.46
2:Cj:150:LYS:HB3	2:Cj:150:LYS:HE2	1.73	0.46
32:Cn:17:GLN:O	32:Cn:21:LYS:HG2	2.16	0.46
32:Cp:268:LEU:HD23	32:Cp:268:LEU:HA	1.75	0.46
9:DB:165:ASN:OD1	9:DB:166:THR:N	2.49	0.46
9:DD:83:GLN:NE2	9:ED:281:TYR:OH	2.38	0.46
9:DF:209:ASP:HB2	9:DF:213:ARG:HH12	1.80	0.46
8:DI:5:ILE:HG12	8:DI:64:ARG:HG2	1.97	0.46
9:DL:6:HIS:NE2	9:DL:8:GLN:OE1	2.49	0.46
39:Dl:69:CYS:SG	39:Dl:70:GLY:N	2.88	0.46
9:EB:290:THR:HA	9:EB:293:MET:HB2	1.98	0.46
9:ED:15:GLN:HB3	9:ED:226:ASN:HD21	1.81	0.46
9:ED:392:LYS:HA	9:ED:392:LYS:HD3	1.72	0.46
9:EF:210:ILE:O	9:EF:214:THR:OG1	2.33	0.46
9:EJ:202:ILE:HD13	9:EJ:202:ILE:HA	1.77	0.46
8:EM:326:LYS:HE3	8:EM:326:LYS:HB3	1.82	0.46
44:ES:51:TYR:HB2	44:EV:168:VAL:HG12	1.97	0.46
44:EX:106:ARG:NH1	44:EY:369:CYS:SG	2.89	0.46
28:F4:205:ARG:HH12	28:F4:211:VAL:HG12	1.81	0.46
9:FD:210:ILE:HD11	9:FD:299:MET:H	1.80	0.46
9:FF:83:GLN:H	9:FF:83:GLN:HG2	1.56	0.46
9:FJ:299:MET:SD	9:FJ:299:MET:N	2.89	0.46
9:FL:403:MET:HE2	9:FL:403:MET:HB3	1.73	0.46
9:GD:7:LEU:HD22	9:GD:151:LEU:HD13	1.98	0.46
9:GD:54:ALA:HB3	9:GD:58:LYS:HB3	1.97	0.46
9:GD:116:VAL:HA	9:GD:119:VAL:HG12	1.98	0.46
9:GF:255:VAL:HG23	8:GG:407:TRP:CG	2.51	0.46
9:GH:169:VAL:HA	9:GH:202:ILE:HB	1.96	0.46
8:GI:3:GLU:OE2	8:GI:130:THR:N	2.47	0.46
9:GL:68:LEU:HD23	9:GL:68:LEU:HA	1.70	0.46
9:GL:385:PHE:HZ	9:GL:408:PHE:HB3	1.80	0.46
8:GM:420:GLU:HA	8:GM:423:GLU:HG3	1.98	0.46
9:HB:248:ALA:HA	9:HB:252:LYS:HD3	1.98	0.46
8:HE:9:VAL:HG23	8:HE:68:VAL:HG13	1.98	0.46
9:HF:265:PHE:HE1	9:HF:418:LEU:HD11	1.81	0.46
9:HJ:64:VAL:HA	9:HJ:89:ASN:HB3	1.97	0.46
47:I:492:ILE:HD11	47:I:508:THR:HG23	1.98	0.46
9:IB:251:ARG:O	9:IB:255:VAL:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ID:375:GLN:HE21	9:ID:423:GLN:HE22	1.61	0.46
9:IH:94:GLN:HG2	51:N:32:LEU:HD11	1.98	0.46
8:IM:50:ASN:O	8:IM:64:ARG:NH2	2.49	0.46
9:JH:67:ASP:HA	9:JH:143:THR:HG21	1.98	0.46
9:JH:237:THR:HG22	9:JH:250:LEU:HD21	1.96	0.46
8:JK:133:GLN:NE2	8:JK:251:ASP:HB3	2.30	0.46
9:JL:7:LEU:HB3	9:JL:135:LEU:HD13	1.97	0.46
49:K1:125:MET:HB2	49:K1:125:MET:HE3	1.81	0.46
9:KH:205:GLU:HA	9:KH:208:TYR:HB2	1.97	0.46
8:KI:269:LEU:HD13	8:KI:381:THR:HG22	1.97	0.46
48:L:48:ARG:O	48:L:52:GLN:HG2	2.16	0.46
8:LK:188:ILE:HD11	8:LK:425:LEU:HD22	1.96	0.46
8:LK:419:SER:O	8:LK:423:GLU:HG2	2.15	0.46
9:LL:383:GLU:HA	9:LL:386:THR:HG22	1.98	0.46
9:MD:8:GLN:OE1	9:MD:65:LEU:HG	2.16	0.46
9:MF:54:ALA:HB3	9:MF:58:LYS:HB3	1.98	0.46
9:NH:364:SER:OG	9:NH:365:ALA:N	2.47	0.46
8:OA:252:LEU:HD12	8:OA:255:PHE:HE1	1.79	0.46
9:OD:49:VAL:HG11	9:OD:241:ARG:HB3	1.96	0.46
9:OF:113:VAL:HA	9:OF:116:VAL:HG22	1.98	0.46
9:OF:140:GLY:HA3	9:OF:181:GLU:OE1	2.15	0.46
9:OF:238:THR:HA	9:OF:241:ARG:HH21	1.80	0.46
8:OG:115:VAL:HG21	8:OG:152:LEU:HD21	1.97	0.46
9:OJ:116:VAL:HG21	9:OJ:151:LEU:HD11	1.96	0.46
9:OJ:296:ALA:O	9:OJ:299:MET:HB2	2.16	0.46
8:OK:298:PRO:HG3	8:OK:308:ARG:HH12	1.81	0.46
9:PB:19:LYS:HB3	9:PB:19:LYS:HE2	1.71	0.46
8:PC:150:ALA:O	8:PC:154:MET:HG2	2.15	0.46
9:PD:246:LEU:HD21	8:PE:179:THR:HG21	1.98	0.46
8:PG:319:TYR:HB2	8:PG:355:ILE:HD13	1.97	0.46
9:PJ:230:SER:HA	9:PJ:233:MET:HB2	1.97	0.46
8:PK:372:GLN:N	8:PK:372:GLN:OE1	2.49	0.46
9:QB:15:GLN:NE2	9:QB:226:ASN:HD22	2.14	0.46
8:QC:265:ILE:HG23	8:QC:432:TYR:CE1	2.51	0.46
8:QE:98:ASP:OD1	8:QE:98:ASP:N	2.44	0.46
8:QI:311:LYS:NZ	8:QI:436:GLY:O	2.35	0.46
8:RE:9:VAL:HG13	8:RE:146:GLY:HA2	1.97	0.46
8:RI:188:ILE:HG13	8:RI:395:LEU:HD21	1.98	0.46
9:RJ:152:ILE:HD12	9:RJ:164:MET:SD	2.56	0.46
9:RJ:341:PHE:HB3	9:RJ:348:ASN:HD21	1.80	0.46
9:RL:11:GLN:NE2	9:RL:15:GLN:OE1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SA:328:VAL:HG11	8:SA:353:VAL:HG21	1.97	0.46
8:SI:11:GLN:HA	8:SI:14:VAL:HG22	1.97	0.46
8:SI:212:ILE:HB	8:SI:216:ASN:HD21	1.81	0.46
8:SM:371:VAL:HG12	8:SM:373:ARG:H	1.81	0.46
8:TG:17:GLY:HA2	8:TG:20:CYS:HB2	1.97	0.46
9:TH:255:VAL:HG23	8:TI:407:TRP:CG	2.51	0.46
9:TH:270:PHE:O	9:TH:298:ASN:ND2	2.40	0.46
8:TI:328:VAL:O	8:TI:332:ILE:HB	2.16	0.46
9:TL:93:GLY:N	9:TL:112:LEU:HD21	2.30	0.46
9:UD:309:ARG:NH2	9:UD:341:PHE:O	2.49	0.46
9:UF:10:GLY:O	9:UF:14:ASN:ND2	2.47	0.46
9:UF:417:ASP:OD1	9:UF:417:ASP:N	2.49	0.46
9:UH:364:SER:OG	9:UH:365:ALA:N	2.46	0.46
9:UJ:256:ASN:HD22	9:UJ:350:LYS:HG2	1.80	0.46
9:UN:218:THR:HG23	9:UN:219:THR:HG23	1.97	0.46
9:VL:280:GLN:HB3	9:VL:281:TYR:CD1	2.51	0.46
8:VM:254:GLU:HG2	9:VN:98:GLY:HA2	1.98	0.46
9:VN:330:MET:HE3	9:VN:330:MET:O	2.15	0.46
9:WB:19:LYS:HA	9:WB:22:GLU:HB2	1.97	0.46
8:WC:274:PRO:HG3	8:WC:374:ALA:HA	1.97	0.46
9:WJ:122:LYS:HE2	57:YI:215:GLN:HB3	1.98	0.46
56:XJ:57:THR:HG23	56:XJ:158:ALA:HB2	1.98	0.46
60:e:214:ILE:HD12	60:e:214:ILE:HA	1.71	0.46
60:e:231:ASP:OD1	60:e:231:ASP:N	2.48	0.46
2:0C:51:GLN:HE21	2:0C:71:LEU:HD22	1.81	0.46
2:0G:118:TYR:CD1	2:0G:119:PRO:HA	2.50	0.46
2:0c:133:ASN:O	2:0c:134:HIS:ND1	2.49	0.46
6:A0:156:ASN:ND2	8:HE:127:ASP:OD1	2.42	0.46
7:A1:35:THR:O	7:A1:41:HIS:NE2	2.48	0.46
9:AF:423:GLN:HG3	57:YJ:60:GLY:H	1.81	0.46
9:AJ:322:SER:OG	9:AJ:323:MET:N	2.49	0.46
8:AK:241:SER:OG	8:AK:250:VAL:O	2.28	0.46
9:AL:73:MET:HA	9:AL:76:VAL:HG12	1.98	0.46
11:AU:313:LEU:HD11	9:GN:361:LEU:HD23	1.97	0.46
13:Aa:672:LYS:HE3	13:Aa:672:LYS:HB2	1.82	0.46
13:Ab:310:GLN:O	13:Ab:312:GLY:N	2.49	0.46
13:Ad:569:ARG:NH1	13:Ad:582:ASP:OD1	2.49	0.46
15:Ap:27:LYS:HD2	9:KJ:1:MET:SD	2.55	0.46
15:Ar:159:PRO:HD3	38:Dh:72:LYS:HZ1	1.80	0.46
7:Az:219:GLY:O	7:Az:221:HIS:N	2.49	0.46
18:B6:130:ASP:OD2	8:KO:214:ARG:NH2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BB:322:SER:O	9:BB:326:VAL:HG23	2.16	0.46
8:BC:319:TYR:HB3	8:BC:323:VAL:HG21	1.98	0.46
9:BD:282:ARG:HG3	47:X:109:MET:HE1	1.98	0.46
8:BE:205:ASP:HB2	8:BE:303:VAL:HA	1.96	0.46
9:BJ:183:TYR:OH	9:BJ:388:MET:O	2.34	0.46
20:BT:148:PRO:HB3	20:BT:168:ALA:HB1	1.96	0.46
14:Bb:238:ARG:HA	14:Bb:238:ARG:HD2	1.76	0.46
18:Bz:65:PHE:HB2	9:LD:407:GLU:OE2	2.16	0.46
28:C2:270:LYS:NZ	28:C3:402:GLU:OE1	2.44	0.46
28:C8:336:MET:HE1	28:C8:486:LEU:HD12	1.97	0.46
9:CD:50:TYR:HE2	9:CD:241:ARG:HD3	1.79	0.46
9:CJ:202:ILE:HD12	9:CJ:202:ILE:HA	1.88	0.46
8:CM:438:ASP:OD1	8:CM:438:ASP:N	2.48	0.46
2:CU:41:ILE:HG13	2:CU:42:ARG:HG2	1.98	0.46
2:Cj:16:TYR:HA	2:Cj:19:PHE:HB3	1.97	0.46
2:Cj:54:MET:O	2:Cj:64:ARG:NH1	2.35	0.46
2:Cj:142:ILE:H	2:Cj:142:ILE:HD12	1.81	0.46
32:Cn:28:GLU:OE2	33:Cs:58:HIS:NE2	2.46	0.46
32:Cn:138:LYS:HA	32:Cn:138:LYS:HD2	1.80	0.46
33:Cv:370:LEU:O	33:Cv:374:GLN:HG2	2.16	0.46
29:D4:139:GLU:HB3	29:D4:143:ARG:HH22	1.81	0.46
8:DE:9:VAL:HA	8:DE:68:VAL:HG23	1.97	0.46
9:DF:278:SER:O	9:DF:278:SER:OG	2.34	0.46
9:DN:8:GLN:HB2	9:DN:65:LEU:HA	1.97	0.46
9:DN:242:PHE:HB3	9:DN:356:ILE:HD12	1.98	0.46
9:DN:263:LEU:HD13	9:DN:422:TYR:HE1	1.81	0.46
37:De:201:ARG:HH21	9:TL:26:ASP:CG	2.24	0.46
43:E2:11:PRO:HB2	43:E2:12:CYS:H	1.60	0.46
9:EJ:249:ASP:OD1	9:EJ:251:ARG:N	2.48	0.46
9:EL:68:LEU:HD12	9:EL:143:THR:HB	1.97	0.46
44:EU:165:PRO:O	44:EV:56:TRP:NE1	2.49	0.46
44:EW:158:CYS:O	44:EW:161:ARG:HG2	2.16	0.46
42:F:310:LYS:NZ	42:F:311:VAL:O	2.47	0.46
42:F:467:SER:HB2	9:HJ:47:ILE:HG22	1.96	0.46
28:F2:452:LYS:HE3	28:F2:452:LYS:HB3	1.70	0.46
28:F3:429:ASP:O	28:F3:433:THR:HG23	2.16	0.46
9:FH:45:GLU:OE2	9:FH:45:GLU:N	2.37	0.46
9:FH:282:ARG:NH2	9:FH:292:GLN:OE1	2.46	0.46
9:FJ:165:ASN:HB3	9:FJ:167:PHE:HE1	1.81	0.46
8:FK:5:ILE:HD13	8:FK:64:ARG:HB3	1.97	0.46
9:FL:162:ARG:HH22	9:FL:251:ARG:NH1	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GF:60:VAL:HG21	9:HF:281:TYR:HB3	1.98	0.46
9:HB:170:VAL:HG21	9:HB:377:LEU:HD11	1.97	0.46
9:HF:282:ARG:HA	9:HF:282:ARG:HD2	1.83	0.46
8:HG:223:THR:OG1	8:HG:224:TYR:N	2.47	0.46
9:HJ:20:PHE:CD1	9:HJ:233:MET:HE3	2.51	0.46
9:HJ:211:CYS:HA	9:HJ:215:LEU:HB2	1.96	0.46
9:IB:408:PHE:N	9:IB:410:GLU:OE1	2.48	0.46
9:ID:167:PHE:CZ	9:ID:233:MET:HG3	2.50	0.46
9:IN:293:MET:HE1	9:IN:315:ALA:HB1	1.97	0.46
9:JF:312:THR:HA	9:JF:348:ASN:HB3	1.98	0.46
8:JG:206:ASN:OD1	67:JG:501:GTP:N2	2.46	0.46
9:JJ:202:ILE:HG21	9:JJ:229:VAL:HG22	1.98	0.46
9:JL:27:GLU:OE2	9:JL:318:ARG:NH2	2.47	0.46
9:JL:210:ILE:O	9:JL:214:THR:OG1	2.33	0.46
9:JL:252:LYS:HA	9:JL:252:LYS:HD2	1.73	0.46
9:KD:139:LEU:HD13	9:KD:168:SER:HB2	1.96	0.46
50:L1:66:TYR:OH	50:L1:71:HIS:O	2.28	0.46
8:LC:168:GLU:HG2	8:LC:201:ALA:HA	1.98	0.46
9:LF:161:ASP:OD1	9:LF:162:ARG:HD3	2.16	0.46
8:LG:306:ASP:OD1	8:LG:308:ARG:NH1	2.49	0.46
9:LL:391:ARG:HE	54:S:251:THR:HG22	1.81	0.46
8:ME:205:ASP:HB2	8:ME:303:VAL:HA	1.98	0.46
8:ME:352:LYS:HE2	9:MF:99:ASN:ND2	2.31	0.46
9:MH:171:PRO:HG2	9:MH:185:ALA:HB2	1.97	0.46
8:MM:119:LEU:HD11	8:MM:156:ARG:HG2	1.98	0.46
9:MN:9:ALA:HB3	9:MN:137:HIS:HB3	1.97	0.46
9:NH:204:ASN:HA	9:NH:207:LEU:HD13	1.98	0.46
9:NH:324:LYS:NZ	8:NI:222:PRO:HD2	2.31	0.46
8:NK:16:ILE:HD12	8:NK:231:ILE:HG21	1.97	0.46
8:OC:156:ARG:O	8:OC:160:ASP:HB2	2.16	0.46
9:OH:130:LEU:HD12	9:OH:131:GLN:N	2.30	0.46
9:OH:207:LEU:HB3	9:OH:225:LEU:HD22	1.98	0.46
9:OH:382:SER:O	9:OH:386:THR:HG23	2.15	0.46
9:OJ:42:LEU:HD11	9:OJ:243:PRO:HG3	1.98	0.46
52:P:51:LEU:H	46:o:422:ARG:HH22	1.63	0.46
9:PD:107:THR:OG1	9:PD:108:GLU:N	2.48	0.46
9:PF:142:GLY:N	69:PF:501:GDP:O2B	2.49	0.46
9:PF:304:ASP:OD1	9:PF:304:ASP:N	2.48	0.46
8:PM:71:GLU:HB3	8:PM:98:ASP:HB3	1.98	0.46
9:QB:330:MET:HB3	9:QB:349:VAL:HG21	1.98	0.46
8:QC:295:CYS:SG	8:QC:377:MET:HB2	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QH:238:THR:OG1	9:QH:239:CYS:N	2.49	0.46
8:QM:418:PHE:HA	8:QM:421:ALA:HB3	1.98	0.46
9:RB:113:VAL:HG21	9:RB:154:LYS:HG3	1.97	0.46
9:RD:136:THR:HG23	9:RD:167:PHE:HB3	1.96	0.46
8:RG:289:ALA:O	8:RG:293:ASN:ND2	2.49	0.46
9:RH:6:HIS:CD2	9:RH:8:GLN:HG3	2.51	0.46
9:RJ:222:TYR:HE2	69:RJ:501:GDP:C4	2.34	0.46
8:RK:377:MET:SD	8:RK:379:SER:OG	2.69	0.46
9:SB:309:ARG:N	9:SB:372:THR:OG1	2.28	0.46
9:SD:256:ASN:OD1	9:SD:256:ASN:N	2.45	0.46
8:SE:262:TYR:OH	9:SF:391:ARG:O	2.33	0.46
9:SF:377:LEU:HD22	9:SF:380:ARG:HH21	1.80	0.46
8:SM:107:HIS:HB3	8:SM:108:TYR:CD2	2.49	0.46
9:TD:293:MET:HB3	9:TD:367:PHE:CD1	2.51	0.46
9:TJ:20:PHE:HZ	9:TJ:50:TYR:HE2	1.64	0.46
9:UJ:275:SER:OG	9:UJ:276:ARG:N	2.49	0.46
9:UJ:385:PHE:HZ	9:UJ:408:PHE:HB3	1.81	0.46
9:UL:324:LYS:HD3	8:UM:210:TYR:CD1	2.50	0.46
9:UL:382:SER:HB3	9:UL:415:MET:HE2	1.98	0.46
9:VB:207:LEU:HD12	9:VB:225:LEU:HA	1.97	0.46
8:VE:103:TYR:HD2	8:VE:413:MET:HE1	1.81	0.46
67:VL:502:GTP:HN21	8:VM:227:LEU:HD22	1.79	0.46
8:VM:313:MET:HE2	8:VM:346:TRP:HZ2	1.81	0.46
9:WD:63:ALA:O	9:WD:89:ASN:ND2	2.49	0.46
9:WH:101:TRP:CD1	9:WH:403:MET:HE1	2.50	0.46
47:X:132:SER:HB2	47:X:151:ARG:HB2	1.97	0.46
47:X:210:ASP:HB3	47:X:213:THR:HG22	1.98	0.46
56:XG:71:ILE:HG22	56:XG:73:LEU:H	1.81	0.46
56:XH:27:LYS:O	56:XH:28:LYS:HD3	2.16	0.46
56:XK:64:ASP:HB3	56:XK:67:LYS:HB2	1.97	0.46
60:e:357:LYS:HG2	60:e:377:ASN:HA	1.97	0.46
60:f:162:GLY:HA3	60:f:182:ASN:HB2	1.98	0.46
60:f:264:MET:HG2	60:f:266:GLY:H	1.80	0.46
60:f:316:HIS:CD2	60:f:332:THR:HG23	2.51	0.46
60:f:522:THR:OG1	60:f:532:TRP:NE1	2.43	0.46
60:g:232:ILE:HD13	60:g:284:TYR:HD2	1.81	0.46
63:m:27:SER:HA	63:m:100:ARG:HG2	1.98	0.46
46:o:527:GLN:HA	46:o:530:TRP:HD1	1.81	0.46
58:q:149:ARG:NH2	58:q:152:ILE:HG13	2.31	0.46
2:0k:111:LEU:HD21	2:0k:141:LEU:HD12	1.97	0.46
7:A5:140:ALA:HB2	8:RA:296:PHE:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:16:ARG:HG3	7:A7:17:GLY:N	2.31	0.46
8:AG:319:TYR:HB3	8:AG:323:VAL:HG21	1.97	0.46
9:AH:257:MET:HA	9:AH:312:THR:HG21	1.97	0.46
10:AQ:38:TYR:CE1	4:z:1402:GLN:HG2	2.51	0.46
12:AW:122:LYS:HD2	12:AW:222:PHE:CD1	2.51	0.46
12:AW:124:LYS:HB2	12:AW:124:LYS:HE3	1.68	0.46
13:Aa:258:ARG:HD3	9:DN:277:GLY:HA3	1.97	0.46
13:Aa:645:LYS:HZ1	13:Aa:649:LYS:HG3	1.81	0.46
5:B:115:SER:O	5:B:118:LYS:HB2	2.16	0.46
17:B0:39:ALA:HB2	8:MG:214:ARG:CZ	2.46	0.46
17:B3:221:SER:OG	17:B3:222:GLY:N	2.48	0.46
9:BB:22:GLU:HA	9:BB:81:PHE:HD2	1.80	0.46
8:BE:91:GLN:HG3	8:BE:121:ARG:NH1	2.30	0.46
8:BI:348:PRO:HG2	9:BJ:384:GLN:HG2	1.98	0.46
9:BL:189:VAL:HG23	9:BL:415:MET:HE1	1.97	0.46
19:BQ:363:ARG:N	8:ME:414:GLU:OE2	2.49	0.46
19:BR:144:GLN:HE21	19:BR:144:GLN:CA	2.27	0.46
19:BR:144:GLN:HE21	19:BR:144:GLN:HA	1.81	0.46
14:Bc:83:GLU:O	28:C2:101:ARG:NH2	2.48	0.46
23:Bf:120:ARG:HD2	8:GC:113:GLU:HA	1.98	0.46
23:Bg:27:TRP:HD1	23:Bg:70:VAL:HG11	1.80	0.46
21:Bj:214:LYS:HG3	8:LC:58:ALA:HB2	1.98	0.46
26:Bu:189:PHE:HE2	26:Bu:204:LEU:HD13	1.80	0.46
28:C8:401:ASP:O	28:C8:404:THR:OG1	2.33	0.46
28:C9:214:GLU:HA	28:C9:217:LYS:HD2	1.97	0.46
9:CD:202:ILE:HD12	9:CD:202:ILE:HA	1.83	0.46
8:CK:250:VAL:HG13	8:CK:254:GLU:HB2	1.97	0.46
9:CL:142:GLY:N	69:CL:501:GDP:O2B	2.49	0.46
33:Cr:32:ARG:NH2	33:Ct:282:GLN:OE1	2.48	0.46
33:Cx:26:THR:OG1	38:Df:124:ASN:ND2	2.45	0.46
29:D3:243:MET:HE3	29:D3:243:MET:HB3	1.82	0.46
29:D5:423:VAL:HA	29:D5:426:ILE:HG22	1.97	0.46
8:DA:277:SER:OG	8:DA:278:ALA:N	2.49	0.46
8:DA:325:PRO:O	8:DA:329:ASN:ND2	2.49	0.46
8:DC:338:LYS:HD2	8:DC:338:LYS:HA	1.78	0.46
8:DE:72:PRO:O	8:DE:76:ASP:HB2	2.16	0.46
8:DG:69:ASP:HA	8:DG:145:THR:HG21	1.98	0.46
8:DK:405:VAL:HA	8:DK:408:TYR:HB3	1.96	0.46
36:Dc:190:TRP:HB3	36:Dc:191:ARG:HE	1.81	0.46
8:EC:367:ASP:N	8:EC:367:ASP:OD1	2.48	0.46
9:EF:246:LEU:HD21	8:EG:179:THR:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EH:33:THR:O	9:EH:58:LYS:NZ	2.48	0.46
9:EH:73:MET:HA	9:EH:76:VAL:HG22	1.97	0.46
9:EJ:310:TYR:N	9:EJ:340:TYR:O	2.39	0.46
8:EK:317:MET:HE3	8:EK:375:VAL:HG11	1.97	0.46
8:EK:346:TRP:HH2	8:EK:439:SER:H	1.64	0.46
42:F:411:LYS:HB2	42:F:411:LYS:HE2	1.71	0.46
28:F2:312:GLN:HA	28:F2:315:ARG:HH11	1.81	0.46
28:F3:111:ASN:OD1	28:F3:114:ARG:NH2	2.48	0.46
9:FF:3:GLU:N	9:FF:3:GLU:OE1	2.49	0.46
45:G:524:PRO:O	45:G:525:ARG:HD2	2.16	0.46
8:GI:234:ILE:HD11	8:GI:272:TYR:HB2	1.98	0.46
9:GJ:282:ARG:NH2	9:GJ:288:GLU:O	2.49	0.46
8:HE:140:SER:OG	67:HE:501:GTP:O2A	2.34	0.46
9:HF:73:MET:HA	9:HF:76:VAL:HB	1.97	0.46
9:HF:162:ARG:HD3	9:HF:162:ARG:HA	1.62	0.46
9:HF:318:ARG:HG2	9:HF:357:PRO:HA	1.97	0.46
8:HK:261:PRO:HG3	8:HK:313:MET:HE2	1.98	0.46
9:HL:69:GLU:OE1	9:HL:72:THR:N	2.48	0.46
9:HN:7:LEU:HD13	9:HN:64:VAL:HB	1.98	0.46
47:I:474:LYS:HE3	47:I:474:LYS:HB2	1.81	0.46
8:IM:3:GLU:HA	8:IM:51:THR:HA	1.97	0.46
8:IM:51:THR:HG21	8:IM:243:ARG:HG2	1.97	0.46
8:JC:439:SER:OG	9:JD:390:ARG:NH1	2.49	0.46
9:JD:284:LEU:HD12	9:JD:362:LYS:HB3	1.98	0.46
8:JG:276:ILE:HD12	8:JG:281:ALA:HA	1.97	0.46
8:JM:195:LEU:HD11	8:JM:428:LEU:HD22	1.98	0.46
8:KC:120:ASP:O	8:KC:124:LYS:HG2	2.16	0.46
8:KG:200:CYS:HG	8:KG:202:PHE:HE2	1.63	0.46
8:LC:430:LYS:HA	8:LC:430:LYS:HD3	1.68	0.46
9:LL:70:PRO:HA	9:LL:73:MET:HE2	1.97	0.46
9:MB:344:TRP:CG	8:MC:401:LYS:HZ1	2.34	0.46
9:MD:272:PRO:HG3	9:MD:364:SER:HA	1.98	0.46
8:ME:185:TYR:HE2	8:ME:404:PHE:HB2	1.80	0.46
9:ML:272:PRO:HG3	9:ML:364:SER:HA	1.97	0.46
8:MM:367:ASP:OD1	8:MM:367:ASP:N	2.43	0.46
51:N:126:ASN:HB3	51:N:132:ARG:HH11	1.80	0.46
8:NC:8:HIS:HA	8:NC:138:PHE:HB2	1.97	0.46
9:NF:86:ARG:NH1	9:NF:123:GLU:OE2	2.48	0.46
8:NG:286:LEU:O	8:NG:373:ARG:NH1	2.49	0.46
51:O:105:SER:HB2	51:O:108:GLN:HG2	1.98	0.46
9:O0:2:ARG:NH2	8:OA:98:ASP:OD1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OH:327:ASP:OD1	9:OH:327:ASP:N	2.48	0.46
8:PA:4:CYS:HB3	8:PA:52:PHE:HE1	1.80	0.46
8:PA:277:SER:OG	8:PA:278:ALA:N	2.49	0.46
9:PB:330:MET:HA	9:PB:330:MET:HE3	1.97	0.46
8:PG:54:SER:HB3	8:PG:62:VAL:HB	1.97	0.46
8:PI:163:LYS:HE2	8:PI:163:LYS:HA	1.97	0.46
9:PJ:224:ASP:HA	9:PJ:227:HIS:HB3	1.98	0.46
8:QA:406:HIS:HA	8:QA:409:VAL:HG12	1.98	0.46
8:QC:414:GLU:OE2	8:QC:414:GLU:N	2.44	0.46
8:QC:428:LEU:O	8:QC:432:TYR:HD2	1.99	0.46
9:QF:242:PHE:CG	9:QF:356:ILE:HD13	2.51	0.46
8:RA:102:ASN:ND2	8:RA:105:ARG:H	2.14	0.46
8:RI:102:ASN:HD22	8:RI:105:ARG:HD3	1.81	0.46
9:RJ:180:VAL:HG13	9:RJ:184:ASN:HD21	1.81	0.46
9:RJ:255:VAL:HA	8:RK:407:TRP:CZ2	2.51	0.46
9:RL:31:ASP:OD1	9:RL:35:THR:OG1	2.32	0.46
8:SC:123:ARG:NH1	8:SC:127:ASP:OD2	2.49	0.46
8:SE:331:ALA:O	8:SE:335:ILE:HG12	2.15	0.46
9:TB:396:HIS:HE1	9:TB:397:TRP:CD1	2.34	0.46
8:TG:437:VAL:O	9:TH:391:ARG:NH2	2.48	0.46
9:TH:203:ASP:OD1	9:TH:205:GLU:N	2.45	0.46
8:TK:3:GLU:HG3	8:TK:129:CYS:SG	2.56	0.46
9:UB:314:ALA:HB3	9:UB:368:ILE:HB	1.96	0.46
9:UB:350:LYS:HD2	9:UB:351:THR:N	2.31	0.46
8:UE:2:ARG:HH12	9:UF:95:SER:HA	1.80	0.46
8:UG:88:HIS:NE2	8:VG:284:GLU:OE2	2.48	0.46
9:UL:116:VAL:HG11	9:UL:151:LEU:HD11	1.98	0.46
1:V:148:SER:O	1:V:148:SER:OG	2.27	0.46
9:VD:213:ARG:NH2	9:VD:297:LYS:HD2	2.30	0.46
8:VG:217:LEU:HD23	8:VG:217:LEU:HA	1.73	0.46
9:VH:11:GLN:NE2	69:VH:501:GDP:O2A	2.48	0.46
8:VK:88:HIS:CE1	8:VK:90:GLU:HG2	2.51	0.46
9:VL:100:ASN:HD21	9:VL:102:ALA:HB3	1.81	0.46
67:VL:502:GTP:PB	8:VM:11:GLN:HE22	2.38	0.46
8:VM:70:LEU:HD23	8:VM:145:THR:HG23	1.98	0.46
9:VN:304:ASP:HB3	9:VN:307:HIS:CE1	2.51	0.46
9:WB:52:ASN:HD21	9:WB:62:ARG:HD3	1.80	0.46
9:WD:148:GLY:HA2	9:WD:151:LEU:HB2	1.97	0.46
9:WD:267:MET:HB2	9:WD:301:ALA:HB3	1.97	0.46
8:WE:319:TYR:HB3	8:WE:323:VAL:HG11	1.97	0.46
8:WI:188:ILE:HG21	8:WI:395:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WN:45:GLU:OE2	9:WN:46:ARG:NE	2.48	0.46
57:YI:229:LEU:HD22	57:YI:244:ILE:HG23	1.97	0.46
60:g:164:ALA:HA	60:g:181:GLY:H	1.81	0.46
58:p:59:LEU:HD23	58:p:61:LEU:HD23	1.98	0.46
66:u:268:LYS:HD3	66:u:364:ILE:HD11	1.98	0.46
2:0a:54:MET:HE2	2:0a:68:LEU:HA	1.97	0.46
2:0a:108:SER:O	2:0a:108:SER:OG	2.33	0.46
8:AA:98:ASP:OD1	8:AA:98:ASP:N	2.44	0.46
8:AE:229:ARG:HD3	8:AE:363:VAL:HG21	1.98	0.46
9:AJ:167:PHE:CE1	9:AJ:233:MET:HB2	2.51	0.46
9:AL:20:PHE:CE1	9:AL:24:ILE:HG13	2.50	0.46
13:Aa:424:ALA:HA	13:Aa:508:LEU:HA	1.98	0.46
14:An:31:VAL:HG23	8:EM:221:ARG:HB3	1.97	0.46
14:Ao:86:ILE:HG12	14:Ao:90:THR:HG23	1.98	0.46
15:Ap:45:THR:O	15:Ap:49:PHE:HD1	1.99	0.46
7:Av:126:ALA:HA	9:OL:296:ALA:HB3	1.98	0.46
17:B9:16:SER:O	17:B9:20:ARG:NH1	2.49	0.46
8:BA:138:PHE:HZ	8:BA:235:VAL:HG21	1.81	0.46
8:BA:182:VAL:HG13	8:BA:186:ASN:HD21	1.81	0.46
8:BE:143:GLY:O	8:BE:147:SER:OG	2.34	0.46
9:BF:34:GLY:HA3	9:BF:58:LYS:HG3	1.98	0.46
9:BF:127:CYS:SG	9:BF:128:ASP:N	2.89	0.46
8:BG:88:HIS:HB3	8:BG:91:GLN:OE1	2.15	0.46
9:BH:88:ASP:OD1	9:BH:88:ASP:N	2.49	0.46
8:BK:360:PRO:HG3	8:BK:374:ALA:HB2	1.97	0.46
9:BL:101:TRP:CE3	9:BL:403:MET:HE1	2.51	0.46
9:BL:385:PHE:HZ	9:BL:408:PHE:HB3	1.80	0.46
8:BM:163:LYS:HD3	8:BM:163:LYS:HA	1.76	0.46
6:BN:224:ARG:NH1	9:IN:209:ASP:OD1	2.49	0.46
19:BP:462:ARG:HD2	9:MH:106:TYR:HB3	1.96	0.46
25:Bm:171:UNK:HA	9:RH:42:LEU:HD21	1.98	0.46
27:Bs:158:ILE:HD12	9:HN:362:LYS:HE3	1.98	0.46
27:Bs:190:ASP:OD2	8:HM:370:LYS:NZ	2.39	0.46
26:Bu:323:TYR:OH	9:LH:359:ARG:NH1	2.49	0.46
28:C3:93:ARG:NH2	28:C5:203:GLU:OE2	2.49	0.46
28:C3:193:GLN:HE22	28:C3:485:ARG:HG3	1.81	0.46
28:C4:90:LEU:HD23	28:C4:90:LEU:HA	1.69	0.46
28:C8:203:GLU:OE2	44:EV:43:THR:OG1	2.31	0.46
9:CD:203:ASP:OD1	9:CD:205:GLU:N	2.49	0.46
9:CD:382:SER:O	9:CD:386:THR:HG23	2.16	0.46
9:CF:37:HIS:CE1	48:J:53:LEU:HD22	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:191:THR:HG21	8:CI:388:TRP:HH2	1.80	0.46
8:CK:332:ILE:HA	8:CK:335:ILE:HG22	1.97	0.46
2:CV:140:SER:C	2:CV:143:PRO:HD2	2.40	0.46
30:CW:325:GLN:HG2	30:CW:328:SER:HB2	1.97	0.46
2:Ch:123:VAL:HB	2:Ch:131:ALA:HB1	1.98	0.46
31:Cl:367:ASN:HB3	31:Cl:382:PRO:HG3	1.97	0.46
33:Cq:154:LYS:HD3	33:Cq:154:LYS:HA	1.76	0.46
33:Cu:61:ARG:HH12	33:Cy:317:ARG:NH1	2.13	0.46
33:Cu:297:ILE:HD12	33:Cu:363:LEU:HD22	1.98	0.46
33:Cv:200:SER:OG	44:EZ:212:GLU:OE2	2.26	0.46
29:Cz:166:LEU:HD12	29:Cz:253:LEU:HD12	1.98	0.46
8:DA:367:ASP:O	48:M:125:ARG:NH2	2.48	0.46
8:DC:349:THR:OG1	8:DC:350:GLY:N	2.48	0.46
8:DE:6:SER:HB3	8:DE:8:HIS:CE1	2.51	0.46
8:DE:216:ASN:N	8:DE:216:ASN:OD1	2.48	0.46
8:DE:402:ARG:HE	8:DE:405:VAL:HG21	1.80	0.46
8:DI:26:LEU:HD13	8:DI:363:VAL:HG12	1.96	0.46
9:DN:159:TYR:HB3	9:DN:162:ARG:HG2	1.97	0.46
29:DQ:224:MET:HE2	29:DQ:335:LEU:HD22	1.98	0.46
29:DV:191:LEU:HD23	29:DV:195:LEU:HD12	1.98	0.46
36:Dc:191:ARG:HA	57:YI:218:ARG:NH1	2.31	0.46
43:E4:31:TYR:HE2	44:ET:189:LEU:HD22	1.81	0.46
9:ED:25:SER:OG	9:ED:30:ILE:O	2.34	0.46
8:EE:150:ALA:O	8:EE:154:MET:HG2	2.16	0.46
8:EE:301:GLN:N	8:EE:301:GLN:OE1	2.48	0.46
8:EG:35:GLN:HG3	8:EG:36:MET:SD	2.56	0.46
9:EJ:206:ALA:O	9:EJ:210:ILE:HG13	2.16	0.46
9:EL:358:PRO:HB2	9:EL:361:LEU:HD12	1.97	0.46
8:FC:5:ILE:HB	8:FC:135:PHE:HD1	1.81	0.46
8:FE:317:MET:HB3	8:FE:319:TYR:CE1	2.50	0.46
9:FH:140:GLY:O	9:FH:184:ASN:ND2	2.36	0.46
8:GC:238:ILE:HD11	8:GC:378:LEU:HD11	1.98	0.46
8:GG:70:LEU:HD12	8:GG:99:ALA:HB2	1.98	0.46
8:GK:154:MET:HE1	8:GK:198:SER:HB2	1.98	0.46
9:GL:278:SER:O	9:GL:278:SER:OG	2.29	0.46
8:GM:67:PHE:HB2	8:GM:92:LEU:HD23	1.97	0.46
8:GM:220:GLU:N	8:GM:220:GLU:OE2	2.48	0.46
9:GN:211:CYS:HB2	9:GN:217:LEU:HD12	1.98	0.46
9:HB:1:MET:N	9:HB:3:GLU:OE2	2.49	0.46
8:HG:326:LYS:HG3	9:HH:212:PHE:HZ	1.81	0.46
8:HG:411:GLU:N	8:HG:411:GLU:OE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HL:232:THR:HG21	9:HL:268:PRO:HB2	1.98	0.46
9:HN:310:TYR:HE2	9:HN:367:PHE:HZ	1.64	0.46
8:IE:363:VAL:HG23	8:IE:366:GLY:HA3	1.98	0.46
9:IH:68:LEU:HD12	9:IH:97:ALA:HB2	1.97	0.46
8:II:310:GLY:HA3	8:II:383:ALA:HB2	1.97	0.46
9:IJ:182:PRO:O	9:IJ:186:THR:HG23	2.16	0.46
9:IL:114:ASP:OD2	51:O:133:ARG:NH2	2.48	0.46
8:IM:273:ALA:HB1	8:IM:291:ILE:HB	1.98	0.46
8:IO:8:HIS:HE1	8:IO:21:TRP:HE1	1.64	0.46
8:JC:298:PRO:HA	8:JC:301:GLN:HE22	1.80	0.46
8:JE:88:HIS:HB3	8:JE:91:GLN:HB2	1.98	0.46
9:JF:103:LYS:H	9:JF:103:LYS:HG2	1.59	0.46
8:JI:158:SER:HB2	8:JI:166:LYS:HZ3	1.79	0.46
9:JJ:67:ASP:HA	9:JJ:143:THR:HG21	1.98	0.46
9:JJ:388:MET:HG2	9:JJ:393:ALA:HB3	1.97	0.46
8:JM:102:ASN:HB3	8:JM:105:ARG:HB2	1.97	0.46
8:JM:206:ASN:OD1	67:JM:501:GTP:N2	2.41	0.46
9:JN:125:GLU:OE2	9:JN:159:TYR:OH	2.33	0.46
9:JN:242:PHE:HB3	9:JN:356:ILE:HD12	1.98	0.46
8:KE:16:ILE:HD11	8:KE:171:ILE:HD11	1.98	0.46
8:KE:105:ARG:HG3	8:KE:411:GLU:HG3	1.98	0.46
8:KE:408:TYR:HB3	8:KE:413:MET:HE3	1.98	0.46
8:KI:138:PHE:HZ	8:KI:235:VAL:HG21	1.80	0.46
9:LN:3:GLU:N	9:LN:3:GLU:OE2	2.49	0.46
9:MF:362:LYS:HB2	9:MF:362:LYS:HE3	1.66	0.46
8:MI:399:TYR:O	8:MI:402:ARG:NH1	2.49	0.46
8:MM:124:LYS:HE3	8:MM:124:LYS:HB3	1.77	0.46
9:N0:385:PHE:O	9:N0:389:PHE:HB2	2.15	0.46
8:NC:245:ASP:OD2	8:NC:245:ASP:N	2.47	0.46
9:NF:52:ASN:OD1	9:NF:62:ARG:NH2	2.49	0.46
9:NF:246:LEU:HD21	8:NG:179:THR:HG21	1.97	0.46
8:NI:147:SER:HB2	8:NI:190:THR:OG1	2.16	0.46
8:NK:210:TYR:CE1	8:NK:227:LEU:HD21	2.50	0.46
9:NL:36:TYR:OH	9:NL:40:SER:O	2.33	0.46
9:O0:247:ASN:O	9:O0:252:LYS:NZ	2.33	0.46
8:OE:130:THR:OG1	8:OE:131:GLY:N	2.48	0.46
8:OE:276:ILE:HG21	8:OE:281:ALA:HB2	1.97	0.46
8:OG:4:CYS:SG	8:OG:5:ILE:N	2.89	0.46
9:OJ:190:HIS:HA	9:OJ:415:MET:HE2	1.97	0.46
52:P:20:ASP:O	52:P:24:LYS:HG3	2.15	0.46
8:PC:47:ASP:OD1	8:PC:47:ASP:N	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PE:1:MET:N	8:PE:3:GLU:OE2	2.43	0.46
8:PE:158:SER:HB2	8:PE:197:HIS:NE2	2.31	0.46
9:PF:171:PRO:HB3	9:PF:181:GLU:HG2	1.98	0.46
9:PH:11:GLN:HA	9:PH:72:THR:HG21	1.98	0.46
9:PH:251:ARG:NH2	8:PI:97:GLU:OE2	2.48	0.46
8:PI:265:ILE:HG13	8:PI:432:TYR:CE1	2.52	0.46
9:PJ:107:THR:OG1	9:PJ:108:GLU:N	2.49	0.46
9:QH:91:VAL:HG21	9:QH:116:VAL:HG22	1.97	0.46
9:QJ:101:TRP:CZ3	9:QJ:187:LEU:HB3	2.51	0.46
54:R:231:MET:HE3	54:R:231:MET:HB2	1.84	0.46
9:RB:6:HIS:HB3	9:RB:63:ALA:HA	1.98	0.46
9:RB:252:LYS:HA	9:RB:255:VAL:HG12	1.97	0.46
9:RB:408:PHE:O	9:RB:412:GLU:HG2	2.15	0.46
8:RC:321:GLY:HA3	8:RC:373:ARG:HA	1.98	0.46
9:RD:274:THR:HG21	9:RD:282:ARG:HG2	1.98	0.46
8:RG:168:GLU:HB3	8:RG:201:ALA:HA	1.98	0.46
9:RH:330:MET:HE1	9:RH:349:VAL:HG21	1.98	0.46
9:RJ:284:LEU:HG	9:RJ:363:MET:HG3	1.98	0.46
8:RM:53:PHE:HB3	8:RM:61:HIS:HB3	1.97	0.46
8:SA:367:ASP:OD1	8:SA:367:ASP:N	2.43	0.46
9:SD:61:PRO:HD3	9:SD:84:ILE:HG22	1.96	0.46
9:SF:21:TRP:HA	9:SF:24:ILE:HG22	1.98	0.46
9:SH:168:SER:OG	9:SH:200:TYR:O	2.30	0.46
9:SH:289:LEU:HD21	9:SH:365:ALA:HB3	1.98	0.46
8:SI:27:GLU:OE2	8:SI:320:ARG:NH2	2.43	0.46
9:SJ:36:TYR:OH	9:SJ:40:SER:O	2.33	0.46
9:SL:336:LYS:HG2	9:SL:337:ASN:OD1	2.15	0.46
8:SM:64:ARG:NH1	8:SM:129:CYS:SG	2.89	0.46
9:TB:324:LYS:HG3	8:TC:222:PRO:HG2	1.98	0.46
8:TC:89:PRO:HD3	8:UC:283:HIS:ND1	2.31	0.46
8:TE:103:TYR:HD1	8:TE:148:GLY:HA2	1.81	0.46
8:TG:69:ASP:OD2	8:TG:70:LEU:N	2.49	0.46
8:TK:115:VAL:HG21	8:TK:152:LEU:HG	1.97	0.46
9:UD:206:ALA:O	9:UD:210:ILE:HG23	2.16	0.46
8:UE:2:ARG:NH2	9:UF:94:GLN:O	2.49	0.46
9:UF:135:LEU:HD11	9:UF:137:HIS:HB3	1.99	0.46
9:UF:341:PHE:HD2	9:UF:348:ASN:HD22	1.63	0.46
9:UH:103:LYS:NZ	9:UH:401:GLU:OE2	2.39	0.46
9:UN:68:LEU:HD13	9:UN:68:LEU:HA	1.76	0.46
8:VG:5:ILE:HD12	8:VG:125:LEU:HD13	1.98	0.46
8:VI:168:GLU:HB2	8:VI:201:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VK:70:LEU:HD12	8:VK:99:ALA:HB2	1.98	0.46
8:WI:11:GLN:HG2	8:WI:74:VAL:HG21	1.97	0.46
57:YJ:221:ILE:O	57:YJ:225:ILE:HG13	2.16	0.46
60:f:402:ARG:HG2	60:f:411:LEU:HD11	1.98	0.46
62:i:71:MET:HB2	62:i:267:VAL:HB	1.96	0.46
4:z:1425:GLN:HG2	4:z:1495:PHE:HD1	1.80	0.46
2:0A:122:VAL:HG23	2:0A:123:VAL:HG23	1.96	0.45
7:A6:237:SER:O	9:RL:122:LYS:NZ	2.48	0.45
7:A8:220:ALA:O	8:SG:123:ARG:HD3	2.15	0.45
8:AA:163:LYS:HD2	8:AA:163:LYS:HA	1.73	0.45
8:AA:196:GLU:N	8:AA:196:GLU:OE2	2.49	0.45
8:AI:238:ILE:HD11	8:AI:378:LEU:HD21	1.97	0.45
9:AJ:284:LEU:HD23	9:AJ:284:LEU:HA	1.84	0.45
9:AL:165:ASN:HB3	9:AL:167:PHE:CE2	2.51	0.45
12:AW:129:SER:OG	12:AW:130:ARG:N	2.49	0.45
13:Ad:126:PRO:HD2	13:Ad:127:PRO:HD3	1.98	0.45
13:Ad:340:CYS:SG	13:Ad:341:ASP:N	2.90	0.45
15:Ap:31:PRO:HG3	9:KJ:44:LEU:HD11	1.99	0.45
8:BA:6:SER:OG	8:BA:64:ARG:O	2.32	0.45
9:BB:356:ILE:HD13	14:Bb:272:PRO:HD2	1.98	0.45
8:BC:4:CYS:HB2	8:BC:52:PHE:HE2	1.81	0.45
8:BI:326:LYS:HZ3	9:BJ:219:THR:HA	1.81	0.45
8:BK:49:PHE:HE2	8:BK:55:GLU:HB2	1.80	0.45
21:BV:178:LYS:HE3	21:BV:178:LYS:HB2	1.66	0.45
21:Bj:130:ASP:OD2	21:Bj:130:ASP:N	2.49	0.45
21:Bk:295:LYS:HE2	21:Bk:295:LYS:HB2	1.86	0.45
27:Bs:258:LYS:HD2	27:Bs:258:LYS:HA	1.62	0.45
18:By:195:GLU:O	18:By:199:VAL:HG12	2.17	0.45
9:CB:336:LYS:HD2	9:CB:336:LYS:HA	1.74	0.45
8:CI:115:VAL:HG22	8:CI:119:LEU:HD23	1.97	0.45
9:CJ:3:GLU:OE1	9:CJ:127:CYS:HB3	2.17	0.45
8:CK:17:GLY:HA2	8:CK:20:CYS:HB3	1.98	0.45
9:CL:173:PRO:HB3	9:CL:380:ARG:HG2	1.98	0.45
2:CU:133:ASN:O	2:CU:134:HIS:ND1	2.48	0.45
29:Cz:301:LYS:HB3	29:Cz:301:LYS:HE2	1.69	0.45
29:D2:94:SER:OG	29:D2:97:ASP:OD2	2.34	0.45
29:D4:386:MET:HE2	29:D4:386:MET:HB3	1.82	0.45
29:D5:212:ASP:OD1	29:D5:212:ASP:N	2.44	0.45
29:D6:94:SER:OG	29:D6:96:GLN:OE1	2.34	0.45
8:DE:195:LEU:HD21	8:DE:428:LEU:HD11	1.98	0.45
9:DF:121:ARG:NH1	9:DF:158:GLU:OE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DF:324:LYS:HB2	8:DG:222:PRO:HD2	1.98	0.45
8:DI:178:SER:OG	8:DI:180:ALA:O	2.34	0.45
8:DI:188:ILE:HD13	8:DI:395:LEU:HD22	1.97	0.45
9:DJ:15:GLN:NE2	69:DJ:501:GDP:N7	2.61	0.45
8:DM:292:THR:HG22	8:DM:375:VAL:HG11	1.98	0.45
9:DN:103:LYS:O	9:DN:108:GLU:N	2.39	0.45
29:DS:156:LYS:HZ3	29:DS:260:LYS:HE2	1.81	0.45
29:DV:191:LEU:HB2	29:DV:225:ILE:HG21	1.98	0.45
9:EB:271:ALA:O	9:EB:273:LEU:N	2.46	0.45
8:EC:269:LEU:HD11	8:EC:384:ILE:HD13	1.98	0.45
9:ED:169:VAL:HG13	9:ED:202:ILE:HG22	1.98	0.45
9:ED:189:VAL:HG21	9:ED:378:PHE:HE1	1.81	0.45
9:EH:406:MET:O	9:EH:409:THR:OG1	2.27	0.45
9:EN:5:VAL:HB	9:EN:133:PHE:HD1	1.80	0.45
29:EP:191:LEU:HB2	29:EP:225:ILE:HG21	1.98	0.45
44:ES:276:VAL:HG22	44:ES:279:ARG:HH21	1.81	0.45
35:Ee:174:ARG:HB3	8:MG:48:SER:HB3	1.98	0.45
8:FC:33:ASP:HA	8:FC:85:GLN:HG2	1.98	0.45
8:FC:223:THR:OG1	8:FC:224:TYR:N	2.47	0.45
8:FI:132:LEU:O	8:FI:164:LYS:NZ	2.50	0.45
45:G:13:GLU:HB2	45:G:57:ARG:HG3	1.96	0.45
8:GE:17:GLY:HA2	8:GE:20:CYS:HB3	1.98	0.45
9:GH:22:GLU:HG3	9:GH:81:PHE:HB2	1.98	0.45
9:GL:284:LEU:HA	9:GL:288:GLU:OE2	2.16	0.45
9:HD:324:LYS:HB3	8:HE:222:PRO:HD2	1.96	0.45
9:HF:257:MET:HB3	9:HF:266:PHE:CZ	2.50	0.45
8:HG:3:GLU:H	8:HG:3:GLU:CD	2.22	0.45
8:HG:391:LEU:HD12	8:HG:394:LYS:HD2	1.98	0.45
9:HL:267:MET:HB3	9:HL:299:MET:HE2	1.98	0.45
47:I:314:GLU:CD	47:I:314:GLU:H	2.23	0.45
9:IF:39:ASP:OD2	9:IF:39:ASP:N	2.49	0.45
9:IF:344:TRP:CG	8:IG:401:LYS:HZ2	2.34	0.45
8:IG:196:GLU:HG2	8:IG:197:HIS:HD2	1.81	0.45
9:IJ:273:LEU:HD23	9:IJ:273:LEU:HA	1.74	0.45
8:IK:155:GLU:HA	8:IK:197:HIS:CD2	2.51	0.45
8:IK:326:LYS:NZ	9:IL:208:TYR:HB3	2.30	0.45
9:JF:226:ASN:OD1	69:JF:501:GDP:N1	2.46	0.45
8:JG:408:TYR:O	8:JG:413:MET:HB3	2.15	0.45
9:JL:86:ARG:HD3	9:JL:88:ASP:HB2	1.98	0.45
9:JL:207:LEU:HD13	9:JL:225:LEU:HB3	1.98	0.45
9:KF:73:MET:HE3	9:KF:90:PHE:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KF:151:LEU:HD12	9:KF:151:LEU:HA	1.78	0.45
9:KJ:272:PRO:HG3	9:KJ:364:SER:HA	1.98	0.45
50:L2:31:ILE:HD13	9:VN:22:GLU:HB3	1.97	0.45
8:LE:231:ILE:O	8:LE:235:VAL:HG12	2.16	0.45
8:LG:129:CYS:HB3	8:LG:132:LEU:HB2	1.98	0.45
9:LJ:431:GLU:OE2	9:LJ:431:GLU:N	2.48	0.45
9:MB:383:GLU:HA	9:MB:386:THR:HG22	1.98	0.45
8:MM:15:GLN:O	8:MM:228:ASN:ND2	2.50	0.45
9:ND:2:ARG:HE	9:ND:240:LEU:HD23	1.81	0.45
9:ND:134:GLN:HE21	9:ND:167:PHE:HZ	1.62	0.45
8:NE:188:ILE:HD12	8:NE:425:LEU:HG	1.98	0.45
9:NF:143:THR:N	69:NF:501:GDP:O2B	2.39	0.45
8:NG:207:GLU:OE2	8:NG:304:LYS:NZ	2.38	0.45
8:NI:298:PRO:HA	8:NI:301:GLN:NE2	2.31	0.45
9:NL:133:PHE:CD1	9:NL:164:MET:HE1	2.50	0.45
9:OB:267:MET:HA	9:OB:268:PRO:HD3	1.82	0.45
9:OF:1:MET:H2	9:OF:3:GLU:CD	2.24	0.45
8:PC:195:LEU:HD11	8:PC:428:LEU:HD22	1.98	0.45
9:PD:122:LYS:HD2	9:PD:122:LYS:HA	1.71	0.45
9:PD:251:ARG:H	9:PD:251:ARG:HG2	1.52	0.45
9:PF:67:ASP:HB3	9:PF:73:MET:HE1	1.98	0.45
9:PJ:334:GLN:HE22	9:PJ:348:ASN:H	1.64	0.45
9:PL:308:GLY:HA3	9:PL:373:ALA:HB2	1.97	0.45
8:QC:9:VAL:HG12	8:QC:146:GLY:HA2	1.98	0.45
8:QE:68:VAL:HG12	8:QE:93:ILE:HB	1.98	0.45
9:QL:97:ALA:O	9:QL:100:ASN:ND2	2.44	0.45
9:QL:379:LYS:HD3	9:QL:419:VAL:HG11	1.98	0.45
8:QM:88:HIS:HD2	8:RM:283:HIS:HB3	1.81	0.45
8:RA:203:MET:HE1	8:RA:267:PHE:HD2	1.81	0.45
8:RC:12:ALA:O	8:RC:16:ILE:HG22	2.15	0.45
8:RI:133:GLN:HE22	8:RI:252:LEU:HD21	1.81	0.45
8:RK:287:SER:OG	8:RK:288:VAL:N	2.49	0.45
8:RK:395:LEU:HD11	8:RK:418:PHE:HZ	1.81	0.45
8:SA:99:ALA:HA	8:SA:105:ARG:HD3	1.97	0.45
8:SA:262:TYR:HB2	8:SA:265:ILE:HG22	1.97	0.45
9:SB:107:THR:OG1	9:SB:108:GLU:N	2.49	0.45
9:SD:105:HIS:CD2	9:SD:150:LEU:HB2	2.51	0.45
8:SG:123:ARG:O	8:SG:127:ASP:N	2.48	0.45
9:SJ:35:THR:OG1	9:SJ:37:HIS:NE2	2.38	0.45
8:SK:56:THR:HG23	8:TK:285:GLN:HG3	1.97	0.45
8:SM:289:ALA:O	8:SM:293:ASN:ND2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:T:118:ARG:HG2	54:T:148:ARG:HE	1.81	0.45
8:TC:391:LEU:HD23	8:TC:391:LEU:HA	1.81	0.45
9:TD:54:ALA:HA	9:UD:283:ALA:HB2	1.97	0.45
9:TD:74:ASP:OD1	9:TD:75:SER:N	2.49	0.45
9:TD:224:ASP:OD1	9:TD:225:LEU:N	2.49	0.45
8:TE:8:HIS:NE2	8:TE:17:GLY:HA3	2.31	0.45
9:TF:336:LYS:NZ	9:TF:337:ASN:OD1	2.48	0.45
8:TG:188:ILE:HD13	8:TG:188:ILE:HA	1.87	0.45
9:TH:3:GLU:HB2	9:TH:130:LEU:HA	1.97	0.45
8:TK:102:ASN:HB2	8:TK:105:ARG:HB3	1.98	0.45
9:UJ:183:TYR:O	9:UJ:187:LEU:HG	2.15	0.45
9:UJ:303:CYS:HB3	9:UJ:373:ALA:HB1	1.97	0.45
9:UL:205:GLU:HA	9:UL:208:TYR:HD1	1.80	0.45
9:UN:178:THR:HG22	9:UN:180:VAL:H	1.81	0.45
8:VC:72:PRO:HB3	8:VC:94:THR:HB	1.99	0.45
9:VJ:68:LEU:HD23	9:VJ:112:LEU:HD22	1.99	0.45
8:VK:200:CYS:SG	8:VK:201:ALA:N	2.89	0.45
8:VK:298:PRO:HA	8:VK:301:GLN:HG3	1.98	0.45
8:VK:325:PRO:O	8:VK:329:ASN:ND2	2.45	0.45
8:VM:322:ASP:OD1	8:VM:322:ASP:N	2.49	0.45
8:WK:245:ASP:OD1	60:g:206:GLN:NE2	2.49	0.45
9:WN:330:MET:HA	9:WN:333:VAL:HG12	1.98	0.45
57:YH:223:ASP:O	57:YH:227:GLU:HG3	2.15	0.45
57:YJ:229:LEU:HD11	57:YJ:248:VAL:HG21	1.98	0.45
59:b:406:GLU:OE1	59:b:409:GLN:NE2	2.41	0.45
60:e:63:LEU:HD13	60:e:99:TRP:CD1	2.52	0.45
60:e:144:SER:OG	60:e:147:LYS:O	2.34	0.45
60:f:573:LYS:HB2	60:f:573:LYS:HE2	1.74	0.45
60:g:119:ALA:HB3	60:g:132:LEU:HB3	1.98	0.45
63:l:21:LEU:HD12	63:l:29:TYR:HD2	1.81	0.45
7:A1:54:ARG:HG3	9:PJ:295:ASP:OD1	2.16	0.45
7:A5:77:LEU:O	7:A5:79:THR:N	2.49	0.45
7:A8:163:ILE:H	9:TJ:337:ASN:HD21	1.63	0.45
8:AA:122:ILE:HD13	8:AA:157:LEU:HD11	1.98	0.45
9:AF:270:PHE:HD2	9:AF:273:LEU:HG	1.81	0.45
8:AK:187:SER:O	8:AK:191:THR:HG22	2.16	0.45
8:AM:244:PHE:HB2	8:AM:356:ASN:HD21	1.81	0.45
11:AT:235:ASN:HA	11:AT:238:VAL:HG22	1.96	0.45
13:Aa:234:GLU:N	13:Aa:234:GLU:OE1	2.49	0.45
13:Ac:605:LEU:HD12	13:Ac:605:LEU:H	1.80	0.45
17:B9:12:ILE:HG22	9:NF:320:ARG:HE	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BA:67:PHE:HE2	8:BA:78:VAL:HG11	1.82	0.45
9:BD:87:PRO:HD3	9:CD:281:TYR:CD2	2.51	0.45
8:BI:185:TYR:HB3	8:BI:408:TYR:HE2	1.81	0.45
8:BM:335:ILE:HD13	8:BM:338:LYS:NZ	2.31	0.45
6:BN:268:LEU:H	9:IL:216:LYS:HE2	1.81	0.45
14:Be:277:TYR:CE1	14:Be:291:PRO:HD3	2.52	0.45
18:By:206:ASN:O	18:By:210:VAL:HG23	2.16	0.45
29:C1:201:ARG:HH12	29:C1:214:VAL:HB	1.81	0.45
8:CC:322:ASP:OD1	8:CC:322:ASP:N	2.40	0.45
9:CD:272:PRO:HG3	9:CD:364:SER:HA	1.98	0.45
9:CF:390:ARG:HG2	9:CF:391:ARG:HG2	1.99	0.45
8:CG:14:VAL:HG22	8:CG:67:PHE:HD1	1.81	0.45
9:CH:200:TYR:CE1	9:CH:368:ILE:HD12	2.51	0.45
8:CK:251:ASP:OD1	8:CK:253:THR:OG1	2.33	0.45
8:CK:295:CYS:HB2	8:CK:377:MET:HE2	1.97	0.45
9:CL:257:MET:SD	9:CL:314:ALA:HB2	2.56	0.45
2:CT:2:MET:O	2:CT:6:LYS:HG2	2.15	0.45
2:CV:76:GLU:O	2:CV:80:LEU:HG	2.16	0.45
2:CV:127:SER:HB3	8:RI:84:ARG:HE	1.81	0.45
2:CZ:68:LEU:HD23	2:CZ:68:LEU:HA	1.79	0.45
2:Cb:50:VAL:HG23	2:Cb:71:LEU:HD21	1.98	0.45
2:Ci:114:LEU:HD21	2:Ci:144:ILE:HD11	1.98	0.45
32:Co:81:LEU:HD11	32:Co:168:LYS:HG3	1.98	0.45
33:Cr:227:ASP:OD1	33:Cr:227:ASP:N	2.49	0.45
29:D0:383:ARG:HD3	29:D0:383:ARG:HA	1.75	0.45
29:D1:383:ARG:NH2	29:DR:312:ASN:OD1	2.42	0.45
29:D3:465:LEU:HD12	29:D3:465:LEU:HA	1.83	0.45
29:D5:235:LEU:HA	29:D5:235:LEU:HD12	1.80	0.45
8:DC:124:LYS:NZ	8:EC:290:GLU:HG3	2.32	0.45
8:DG:252:LEU:HD12	8:DG:255:PHE:HE2	1.81	0.45
9:DH:370:ASN:OD1	9:DH:370:ASN:N	2.49	0.45
9:DL:257:MET:O	9:DL:370:ASN:ND2	2.48	0.45
29:DU:248:ASP:N	29:DU:248:ASP:OD2	2.49	0.45
8:EG:220:GLU:OE2	8:EG:220:GLU:N	2.48	0.45
9:EJ:213:ARG:HH21	9:EJ:297:LYS:HE2	1.82	0.45
9:EJ:288:GLU:HA	9:EJ:291:GLN:HG2	1.97	0.45
8:EK:324:VAL:HG12	8:EK:326:LYS:H	1.81	0.45
44:ES:429:LYS:HB3	44:ES:429:LYS:HE3	1.73	0.45
28:F3:398:THR:HG21	28:F6:281:VAL:HG12	1.98	0.45
28:F5:411:LEU:HD23	28:F5:411:LEU:HA	1.85	0.45
8:FC:180:ALA:HB3	8:FC:183:GLU:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FC:330:ALA:O	8:FC:334:THR:HG23	2.17	0.45
8:FG:414:GLU:CD	8:FG:416:GLY:H	2.24	0.45
8:FI:102:ASN:HB3	8:FI:105:ARG:HB2	1.98	0.45
9:FJ:326:VAL:O	9:FJ:330:MET:HG2	2.16	0.45
9:FL:361:LEU:HD23	9:FL:361:LEU:HA	1.85	0.45
9:GD:107:THR:OG1	9:GD:108:GLU:N	2.49	0.45
8:GE:427:ALA:HA	8:GE:430:LYS:HD3	1.98	0.45
9:GF:55:THR:HG21	9:HF:284:LEU:HD12	1.98	0.45
9:GH:128:ASP:OD1	9:GH:128:ASP:N	2.48	0.45
9:GL:67:ASP:OD1	9:GL:68:LEU:N	2.49	0.45
8:GM:56:THR:HA	8:HM:285:GLN:HB3	1.99	0.45
9:HB:67:ASP:HA	9:HB:143:THR:HG21	1.99	0.45
9:HB:322:SER:N	8:HC:221:ARG:HH21	2.13	0.45
9:HF:167:PHE:HE2	9:HF:200:TYR:CD1	2.32	0.45
8:HG:188:ILE:HA	8:HG:191:THR:HG22	1.99	0.45
8:HK:115:VAL:HG13	8:HK:119:LEU:HD23	1.97	0.45
8:IC:200:CYS:HA	8:IC:266:HIS:HB2	1.97	0.45
9:IF:296:ALA:HA	9:IF:299:MET:HE2	1.98	0.45
8:II:200:CYS:HA	8:II:266:HIS:HB2	1.99	0.45
9:IJ:36:TYR:OH	9:IJ:40:SER:O	2.33	0.45
8:IK:169:PHE:CE2	8:IK:235:VAL:HG22	2.51	0.45
8:IM:166:LYS:N	8:IM:199:ASP:OD2	2.43	0.45
9:JD:299:MET:HE1	9:JD:367:PHE:HD2	1.81	0.45
8:JG:27:GLU:HA	8:JG:361:THR:HG21	1.98	0.45
8:JG:302:MET:HB2	8:JG:302:MET:HE3	1.69	0.45
9:JJ:122:LYS:HD2	9:JJ:122:LYS:HA	1.76	0.45
9:JJ:152:ILE:HG22	9:JJ:195:ASN:HB3	1.98	0.45
8:JM:94:THR:OG1	8:JM:95:GLY:N	2.49	0.45
9:KF:250:LEU:HD23	9:KF:250:LEU:HA	1.85	0.45
8:KI:195:LEU:HD21	8:KI:264:ARG:HH21	1.81	0.45
8:KO:31:GLN:HG3	8:KO:37:PRO:HD3	1.98	0.45
50:L2:37:ASP:OD1	50:L2:37:ASP:N	2.41	0.45
8:LC:103:TYR:HB2	8:LC:186:ASN:HB3	1.98	0.45
8:LC:258:ASN:OD1	9:LD:179:VAL:HG12	2.16	0.45
8:LC:406:HIS:HA	8:LC:409:VAL:HG12	1.98	0.45
9:LD:362:LYS:HA	9:LD:362:LYS:HD3	1.60	0.45
9:LF:184:ASN:OD1	9:LF:398:TYR:OH	2.29	0.45
8:LG:203:MET:HB2	8:LG:203:MET:HE3	1.62	0.45
9:LH:130:LEU:O	9:LH:162:ARG:NH1	2.47	0.45
9:LL:130:LEU:O	9:LL:162:ARG:NH2	2.49	0.45
8:MC:88:HIS:CE1	8:MC:90:GLU:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MG:202:PHE:CE2	8:MG:378:LEU:HD22	2.51	0.45
9:MJ:178:THR:O	9:MJ:181:GLU:HG2	2.16	0.45
9:N0:266:PHE:HE1	9:N0:370:ASN:HB2	1.81	0.45
9:ND:88:ASP:OD1	9:ND:88:ASP:N	2.37	0.45
8:NG:56:THR:HG21	8:OG:283:HIS:HA	1.97	0.45
9:NH:2:ARG:HH21	9:NH:240:LEU:HA	1.80	0.45
8:NI:271:THR:HB	8:NI:377:MET:HB3	1.96	0.45
9:O0:347:ASN:ND2	8:OA:180:ALA:O	2.49	0.45
8:OE:121:ARG:HA	8:OE:124:LYS:HZ3	1.81	0.45
9:OH:19:LYS:HE2	9:OH:226:ASN:C	2.42	0.45
9:OJ:164:MET:HA	9:OJ:164:MET:HE2	1.97	0.45
8:OK:3:GLU:OE2	8:OK:3:GLU:N	2.50	0.45
8:PG:76:ASP:HA	8:PG:79:ARG:HE	1.81	0.45
8:PG:98:ASP:N	8:PG:98:ASP:OD1	2.48	0.45
8:PI:380:ASN:OD1	8:PI:380:ASN:N	2.49	0.45
9:PJ:249:ASP:OD1	9:PJ:252:LYS:N	2.41	0.45
9:PJ:252:LYS:HD3	8:PK:100:ALA:HA	1.98	0.45
8:PM:137:ILE:HG13	8:PM:154:MET:HE2	1.97	0.45
8:QA:298:PRO:HA	8:QA:301:GLN:HG3	1.98	0.45
8:QE:27:GLU:OE2	8:QE:243:ARG:NH2	2.49	0.45
9:QF:380:ARG:HE	9:QF:380:ARG:HB2	1.56	0.45
8:QK:185:TYR:CD1	8:QK:398:MET:HE1	2.51	0.45
8:RA:145:THR:OG1	8:RA:146:GLY:N	2.49	0.45
8:RA:171:ILE:HA	8:RA:204:VAL:HB	1.98	0.45
8:RC:205:ASP:HB2	8:RC:303:VAL:HG13	1.98	0.45
9:RF:395:LEU:HA	9:RF:398:TYR:CD1	2.52	0.45
9:RH:9:ALA:HB3	9:RH:137:HIS:HB3	1.97	0.45
9:RH:14:ASN:ND2	9:RH:65:LEU:HB3	2.31	0.45
9:SB:177:ASP:OD1	69:SB:501:GDP:O3'	2.30	0.45
9:SB:278:SER:HA	9:SB:281:TYR:HD2	1.81	0.45
9:SF:47:ILE:HG12	9:SF:51:TYR:HD2	1.80	0.45
9:SF:211:CYS:HA	9:SF:215:LEU:HB2	1.97	0.45
9:SH:130:LEU:O	9:SH:162:ARG:NH1	2.35	0.45
9:SH:423:GLN:HA	9:SH:426:GLN:HB3	1.98	0.45
8:SI:203:MET:HE2	8:SI:203:MET:HB3	1.81	0.45
9:SL:304:ASP:N	9:SL:304:ASP:OD1	2.46	0.45
9:SL:319:GLY:O	9:SL:355:ASP:HA	2.15	0.45
8:SM:431:ASP:HA	8:SM:434:GLU:HG2	1.98	0.45
8:TE:406:HIS:HA	8:TE:409:VAL:HG22	1.98	0.45
8:TK:409:VAL:HA	8:TK:413:MET:O	2.16	0.45
9:TL:1:MET:N	9:TL:128:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UB:68:LEU:HB3	9:UB:96:GLY:HA2	1.97	0.45
9:UN:235:GLY:HA2	9:UN:318:ARG:HH21	1.80	0.45
8:VC:188:ILE:HD11	8:VC:391:LEU:HG	1.98	0.45
8:VG:277:SER:OG	8:VG:278:ALA:N	2.48	0.45
9:VL:325:GLU:OE1	9:VL:325:GLU:N	2.46	0.45
55:W:92:LYS:HA	55:W:92:LYS:HD2	1.72	0.45
8:WC:261:PRO:HB2	8:WC:262:TYR:CD1	2.51	0.45
9:WD:67:ASP:OD2	9:WD:68:LEU:N	2.49	0.45
8:WG:183:GLU:OE1	8:WG:184:PRO:HD3	2.15	0.45
9:WH:19:LYS:NZ	9:WH:223:GLY:O	2.49	0.45
62:j:42:ARG:NH2	62:j:102:HIS:O	2.48	0.45
3:x:41:LYS:HB3	3:x:88:ILE:HB	1.97	0.45
2:0E:6:LYS:HB3	2:0E:6:LYS:HE3	1.77	0.45
2:0Y:30:LEU:O	2:0Y:34:ARG:HB2	2.16	0.45
2:0Y:65:ARG:O	2:0Y:69:MET:HG3	2.16	0.45
2:0a:46:SER:HB3	2:0a:49:GLN:HB3	1.97	0.45
2:0i:137:GLY:O	2:0i:141:LEU:HB2	2.17	0.45
8:AA:317:MET:HE1	8:AA:332:ILE:HD11	1.98	0.45
9:AF:417:ASP:O	9:AF:421:GLU:HG2	2.16	0.45
12:AW:187:ASP:OD1	12:AW:187:ASP:N	2.48	0.45
13:Aa:330:ILE:HG13	13:Aa:337:VAL:HG13	1.98	0.45
13:Ad:3:LYS:HE2	13:Ad:3:LYS:HB2	1.76	0.45
13:Ad:561:LYS:C	13:Ad:562:MET:HE2	2.42	0.45
7:Ay:102:GLY:O	8:FG:123:ARG:NH1	2.49	0.45
8:BA:269:LEU:HD21	8:BA:384:ILE:HD13	1.99	0.45
9:BB:30:ILE:HD11	9:BB:47:ILE:HD11	1.98	0.45
9:BD:211:CYS:HA	9:BD:215:LEU:HB2	1.97	0.45
8:BE:273:ALA:HB2	8:BE:295:CYS:SG	2.56	0.45
8:BE:316:CYS:HA	8:BE:352:LYS:HB3	1.99	0.45
9:BF:252:LYS:HE3	8:BG:101:ASN:HD21	1.82	0.45
19:BQ:170:LYS:O	19:BQ:174:ILE:HG12	2.17	0.45
21:BV:140:LYS:HB2	21:BV:140:LYS:HE3	1.82	0.45
14:Bc:75:PHE:HB3	63:k:68:VAL:HG22	1.97	0.45
14:Be:228:ARG:HD2	14:Be:247:GLU:HG2	1.98	0.45
18:By:140:GLU:OE2	18:By:147:LYS:HD3	2.16	0.45
18:Bz:35:LYS:HA	18:Bz:38:VAL:HG12	1.99	0.45
28:C7:131:LYS:HD2	28:C7:131:LYS:HA	1.72	0.45
28:C8:296:VAL:HG23	28:C8:298:GLU:H	1.81	0.45
8:CG:93:ILE:HD13	8:CG:118:VAL:HG22	1.97	0.45
9:CH:100:ASN:OD1	9:CH:103:LYS:NZ	2.43	0.45
8:CI:406:HIS:HA	8:CI:409:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CK:188:ILE:HD13	8:CK:395:LEU:HD13	1.98	0.45
2:CY:10:ARG:HH22	2:Ci:56:HIS:HB3	1.80	0.45
2:Cd:130:GLU:OE2	2:Cd:130:GLU:N	2.42	0.45
2:Cf:26:PHE:HA	2:Cf:66:ILE:HG12	1.98	0.45
2:Cj:140:SER:O	2:Cj:144:ILE:HG12	2.15	0.45
2:Ck:34:ARG:NH2	2:Ck:44:ILE:HG12	2.31	0.45
33:Cx:247:ILE:HD13	43:E3:189:LEU:HD21	1.97	0.45
29:D0:378:ILE:HD13	29:D0:378:ILE:HA	1.86	0.45
9:DH:421:GLU:O	9:DH:424:GLN:NE2	2.42	0.45
9:DN:221:THR:HG23	9:DN:224:ASP:H	1.80	0.45
29:DQ:222:VAL:O	29:DQ:226:LYS:HG2	2.16	0.45
29:DR:469:LYS:HG3	29:DR:473:MET:HE3	1.99	0.45
35:DY:65:HIS:O	35:DY:69:THR:OG1	2.29	0.45
8:EI:204:VAL:HA	8:EI:302:MET:SD	2.56	0.45
8:EM:54:SER:OG	8:EM:55:GLU:N	2.49	0.45
44:EU:286:LEU:HD23	44:EU:286:LEU:HA	1.80	0.45
44:EW:138:LEU:HD12	44:EW:282:ILE:HG23	1.97	0.45
42:F:334:GLU:N	42:F:334:GLU:OE2	2.49	0.45
9:FB:19:LYS:HD2	9:FB:19:LYS:HA	1.83	0.45
9:FD:206:ALA:HB1	9:FD:299:MET:HB3	1.97	0.45
9:FF:102:ALA:HB1	9:FF:401:GLU:HG2	1.98	0.45
9:FH:186:THR:HG22	9:FH:411:ALA:HB1	1.98	0.45
9:FN:1:MET:HE1	9:FN:46:ARG:HD2	1.97	0.45
9:GH:218:THR:OG1	9:GH:219:THR:N	2.48	0.45
8:GI:218:ASP:OD1	8:GI:218:ASP:N	2.49	0.45
8:GM:1:MET:HE3	8:GM:2:ARG:HE	1.81	0.45
9:GN:25:SER:OG	9:GN:30:ILE:O	2.34	0.45
8:HE:326:LYS:H	8:HE:326:LYS:HG2	1.64	0.45
9:HF:101:TRP:HE3	9:HF:403:MET:HE1	1.82	0.45
9:HH:5:VAL:HG23	9:HH:130:LEU:HD11	1.99	0.45
9:HH:116:VAL:HG11	9:HH:151:LEU:HD11	1.98	0.45
8:HI:133:GLN:N	8:HI:133:GLN:OE1	2.50	0.45
9:HL:306:ARG:NH1	9:HL:340:TYR:OH	2.49	0.45
8:IE:209:ILE:HB	8:IE:227:LEU:HD13	1.99	0.45
8:IO:190:THR:O	8:IO:194:THR:OG1	2.25	0.45
8:JI:251:ASP:H	8:JI:254:GLU:HB2	1.80	0.45
9:JJ:269:GLY:HA2	9:JJ:300:MET:HE3	1.99	0.45
9:JJ:344:TRP:HZ3	8:JK:403:ALA:HB2	1.81	0.45
8:JK:188:ILE:HG21	8:JK:395:LEU:HD22	1.99	0.45
9:JL:290:THR:HG21	9:JL:329:GLN:HB3	1.98	0.45
8:KE:279:GLU:N	8:KE:279:GLU:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KF:128:ASP:N	9:KF:128:ASP:OD2	2.35	0.45
9:KH:25:SER:HB3	9:KH:30:ILE:HB	1.97	0.45
8:KI:160:ASP:HB3	8:KI:161:TYR:HD1	1.80	0.45
8:KI:172:TYR:N	8:KI:204:VAL:O	2.45	0.45
50:L1:40:GLU:OE1	59:a:225:ARG:NH2	2.48	0.45
9:LF:252:LYS:HE2	8:LG:100:ALA:HA	1.98	0.45
9:LJ:13:GLY:HA2	9:LJ:136:THR:HG22	1.98	0.45
8:LK:200:CYS:HG	8:LK:202:PHE:HE2	1.64	0.45
9:LN:256:ASN:HD22	9:LN:350:LYS:HD2	1.81	0.45
9:MF:318:ARG:HE	9:MF:358:PRO:HG3	1.81	0.45
9:MJ:1:MET:SD	9:MJ:2:ARG:N	2.89	0.45
9:MN:290:THR:HA	9:MN:293:MET:HE2	1.98	0.45
9:NJ:52:ASN:OD1	9:NJ:62:ARG:NH2	2.49	0.45
9:NJ:105:HIS:HD2	9:NJ:150:LEU:HB2	1.81	0.45
8:NK:12:ALA:HB1	8:NK:171:ILE:HD12	1.99	0.45
8:OE:103:TYR:CE2	8:OE:189:LEU:HB3	2.50	0.45
8:OK:203:MET:HE3	8:OK:203:MET:HB3	1.77	0.45
8:PA:238:ILE:HD13	8:PA:238:ILE:HA	1.81	0.45
8:PA:393:HIS:O	8:PA:397:LEU:HD12	2.16	0.45
9:PB:182:PRO:O	9:PB:186:THR:HG23	2.16	0.45
8:PC:46:ASP:OD1	8:PC:46:ASP:N	2.49	0.45
9:PD:378:PHE:HB3	9:PD:415:MET:SD	2.57	0.45
9:PD:395:LEU:HA	9:PD:398:TYR:HB2	1.98	0.45
9:PF:156:ARG:NE	9:PF:195:ASN:O	2.48	0.45
8:PG:288:VAL:HA	8:PG:291:ILE:HG12	1.98	0.45
8:PG:304:LYS:HD3	8:PG:304:LYS:HA	1.74	0.45
9:QB:46:ARG:HE	9:QB:243:PRO:HD3	1.80	0.45
9:QB:170:VAL:HG21	9:QB:377:LEU:HD11	1.97	0.45
9:QD:247:ASN:O	9:QD:252:LYS:NZ	2.49	0.45
8:QI:203:MET:O	8:QI:302:MET:HE1	2.16	0.45
8:QI:321:GLY:N	8:QI:356:ASN:O	2.49	0.45
8:QK:9:VAL:HG12	8:QK:146:GLY:HA2	1.99	0.45
9:QL:10:GLY:HA2	9:QL:143:THR:HG23	1.99	0.45
9:QL:14:ASN:HB3	9:QL:76:VAL:HG21	1.98	0.45
9:RF:27:GLU:OE2	9:RF:241:ARG:NH2	2.49	0.45
8:RG:1:MET:HE1	8:RG:129:CYS:HB2	1.97	0.45
9:RH:193:VAL:HG13	9:RH:194:GLU:HG2	1.97	0.45
9:RH:406:MET:SD	9:RH:406:MET:N	2.80	0.45
8:RK:166:LYS:HE3	8:RK:166:LYS:HB2	1.74	0.45
9:RL:101:TRP:HE1	9:RL:188:SER:HB3	1.80	0.45
8:SA:79:ARG:HH22	8:SA:94:THR:HG21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SA:90:GLU:N	8:SA:90:GLU:OE1	2.49	0.45
8:SA:328:VAL:O	8:SA:332:ILE:HG12	2.17	0.45
9:SB:33:THR:HG23	9:SB:35:THR:HG23	1.99	0.45
8:SC:255:PHE:HZ	8:SC:318:LEU:HD11	1.81	0.45
8:SK:146:GLY:N	67:SK:501:GTP:O2G	2.50	0.45
8:SM:6:SER:HG	8:SM:8:HIS:HE2	1.63	0.45
8:TK:145:THR:OG1	67:TK:501:GTP:O1B	2.34	0.45
8:TM:138:PHE:HZ	8:TM:235:VAL:HG11	1.80	0.45
9:UD:173:PRO:HD2	9:UD:205:GLU:OE2	2.17	0.45
8:UI:288:VAL:O	8:UI:292:THR:OG1	2.31	0.45
8:UI:327:ASP:OD1	8:UI:327:ASP:N	2.46	0.45
8:UK:262:TYR:HB2	8:UK:265:ILE:HG12	1.98	0.45
8:UM:327:ASP:OD2	8:UM:327:ASP:N	2.48	0.45
8:VC:1:MET:HG3	8:VC:2:ARG:HD3	1.98	0.45
8:VE:188:ILE:HD11	8:VE:391:LEU:HB3	1.97	0.45
9:VF:350:LYS:HD2	9:VF:351:THR:N	2.31	0.45
9:VH:218:THR:OG1	9:VH:219:THR:N	2.49	0.45
8:VI:163:LYS:HD2	8:VI:163:LYS:HA	1.83	0.45
9:VL:48:ASN:OD1	9:VL:48:ASN:N	2.49	0.45
9:WB:375:GLN:HE22	9:WB:419:VAL:HG13	1.80	0.45
9:WB:380:ARG:HA	9:WB:383:GLU:HG3	1.99	0.45
8:WE:221:ARG:HD2	65:t:147:ILE:HG21	1.99	0.45
8:WI:2:ARG:HH22	8:WI:47:ASP:HB3	1.82	0.45
8:WK:252:LEU:HA	8:WK:255:PHE:CE2	2.51	0.45
56:XL:21:PRO:HB2	56:XL:22:LEU:HD12	1.99	0.45
56:XL:37:ILE:HD13	56:XL:37:ILE:HA	1.81	0.45
57:YG:105:TYR:CZ	57:YG:134:MET:HE3	2.51	0.45
57:YI:165:ILE:HD11	57:YI:196:ILE:HD11	1.99	0.45
57:YK:113:PHE:HB3	57:YK:152:PRO:HB2	1.98	0.45
59:d:390:LYS:HD3	59:d:390:LYS:HA	1.71	0.45
60:e:107:MET:HE2	60:e:107:MET:HB3	1.75	0.45
60:e:490:ILE:HD11	60:e:500:GLN:HB2	1.99	0.45
60:g:177:PHE:HE2	60:g:214:ILE:HD11	1.81	0.45
62:i:97:ASP:OD1	62:i:97:ASP:N	2.49	0.45
63:n:105:CYS:SG	63:n:111:ARG:NH1	2.90	0.45
2:0k:141:LEU:O	2:0k:145:ILE:HG12	2.17	0.45
3:2:27:LYS:HB2	3:2:27:LYS:HE2	1.74	0.45
3:2:192:LYS:HD3	3:2:192:LYS:HA	1.65	0.45
7:A1:79:THR:HA	8:OI:94:THR:HG23	1.98	0.45
7:A1:155:LYS:NZ	8:PE:215:ARG:HA	2.32	0.45
7:A7:218:PRO:HG3	8:SA:338:LYS:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A8:218:PRO:HB3	8:TG:338:LYS:HB3	1.99	0.45
9:AF:267:MET:HG2	9:AF:301:ALA:HB3	1.96	0.45
8:AG:288:VAL:HG13	8:AG:319:TYR:HE2	1.81	0.45
9:AH:327:ASP:OD1	9:AH:328:GLU:N	2.50	0.45
8:AK:154:MET:HE1	8:AK:168:GLU:OE2	2.17	0.45
9:AL:87:PRO:HD3	9:BL:281:TYR:CD2	2.51	0.45
13:Ab:529:SER:HA	13:Ab:587:THR:HG21	1.98	0.45
7:Au:237:SER:OG	9:FL:125:GLU:OE2	2.28	0.45
16:Ax:113:ARG:H	16:Ax:113:ARG:HG2	1.53	0.45
9:BD:232:THR:HG21	9:BD:268:PRO:HB2	1.97	0.45
9:BD:385:PHE:HZ	9:BD:408:PHE:HB3	1.82	0.45
8:BE:429:GLU:O	8:BE:433:GLU:HG3	2.16	0.45
9:BF:1:MET:HE3	9:BF:1:MET:HB3	1.66	0.45
9:BF:252:LYS:HE3	8:BG:101:ASN:ND2	2.31	0.45
8:BG:229:ARG:HD3	8:BG:363:VAL:HG21	1.99	0.45
20:BT:153:LEU:HA	20:BT:153:LEU:HD12	1.66	0.45
21:BV:166:GLN:HE22	8:LI:370:LYS:H	1.65	0.45
22:BW:126:LEU:HD12	22:BW:126:LEU:HA	1.78	0.45
14:Bb:74:PRO:HD3	63:n:60:THR:HG21	1.97	0.45
21:Bi:357:LYS:HD3	21:Bi:357:LYS:HA	1.75	0.45
27:Bs:319:GLN:NE2	27:Bs:323:GLU:OE2	2.50	0.45
18:Bz:117:ILE:HA	8:LG:415:GLU:OE2	2.16	0.45
9:CD:331:LEU:HD12	9:CD:331:LEU:HA	1.74	0.45
8:CK:318:LEU:HB2	8:CK:376:CYS:HB3	1.98	0.45
9:CL:256:ASN:OD1	8:CM:181:VAL:HG22	2.16	0.45
2:CT:10:ARG:O	2:CT:14:GLN:HG2	2.15	0.45
2:Ca:17:LYS:HD2	2:Ca:18:ILE:HD13	1.99	0.45
32:Cm:24:TYR:HE1	32:Cn:277:LYS:HZ2	1.63	0.45
33:Cr:12:PHE:HE2	33:Ct:126:ILE:HA	1.81	0.45
33:Ct:307:LYS:HD3	33:Ct:307:LYS:HA	1.73	0.45
33:Cv:312:LYS:HG3	33:Cx:201:LEU:HD13	1.98	0.45
9:DB:237:THR:HG22	9:DB:250:LEU:HD12	1.98	0.45
9:DD:232:THR:HG22	9:DD:270:PHE:HB2	1.98	0.45
9:DF:21:TRP:O	9:DF:25:SER:OG	2.31	0.45
8:DK:338:LYS:HA	8:DK:338:LYS:HD2	1.77	0.45
9:DL:43:GLN:OE1	9:DL:359:ARG:NH2	2.49	0.45
29:DW:445:GLN:O	29:DW:449:MET:HG3	2.16	0.45
29:EA:190:PRO:HG3	29:EA:480:PRO:HD2	1.99	0.45
9:ED:11:GLN:HG2	9:ED:15:GLN:HE22	1.81	0.45
8:EG:241:SER:OG	8:EG:250:VAL:O	2.27	0.45
8:EI:211:ASP:HA	8:EI:214:ARG:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EJ:176:SER:OG	9:EJ:178:THR:O	2.34	0.45
9:EJ:271:ALA:O	9:EJ:273:LEU:N	2.45	0.45
9:EJ:309:ARG:HH11	9:EJ:342:VAL:HA	1.80	0.45
8:EK:220:GLU:OE1	8:EK:221:ARG:NE	2.50	0.45
44:EU:135:LYS:HB3	44:EU:135:LYS:HE3	1.79	0.45
44:EV:47:ARG:NH1	44:EV:48:THR:O	2.49	0.45
28:F4:472:LYS:HA	28:F4:472:LYS:HD2	1.70	0.45
8:FG:1:MET:HE1	8:FG:130:THR:HB	1.97	0.45
8:FG:291:ILE:HD11	8:FG:375:VAL:HG13	1.97	0.45
8:FI:90:GLU:CB	8:FI:121:ARG:HH12	2.26	0.45
9:GL:130:LEU:HD23	9:GL:130:LEU:HA	1.86	0.45
9:GN:3:GLU:OE1	9:GN:49:VAL:HA	2.15	0.45
8:HI:17:GLY:HA2	8:HI:20:CYS:SG	2.56	0.45
9:HJ:222:TYR:HA	9:HJ:225:LEU:HB2	1.97	0.45
8:HK:328:VAL:O	8:HK:332:ILE:HG12	2.16	0.45
8:HM:290:GLU:HA	8:HM:293:ASN:HB2	1.97	0.45
9:HN:39:ASP:OD2	9:HN:40:SER:N	2.50	0.45
8:HO:103:TYR:H	8:HO:408:TYR:HE1	1.64	0.45
8:II:53:PHE:O	8:II:64:ARG:NH1	2.49	0.45
8:IK:317:MET:HE2	8:IK:351:PHE:HE1	1.81	0.45
8:IO:67:PHE:O	8:IO:93:ILE:N	2.48	0.45
8:IO:352:LYS:HD2	8:IO:353:VAL:N	2.30	0.45
9:JB:218:THR:HG23	9:JB:219:THR:HG23	1.98	0.45
8:JI:72:PRO:O	8:JI:76:ASP:HB2	2.17	0.45
8:JK:79:ARG:HH22	8:JK:94:THR:HG22	1.81	0.45
9:JL:297:LYS:HB2	9:JL:297:LYS:HZ3	1.82	0.45
9:KB:31:ASP:OD2	9:KB:34:GLY:N	2.45	0.45
9:KD:403:MET:HE2	9:KD:403:MET:HB3	1.90	0.45
8:KK:419:SER:O	8:KK:423:GLU:HG2	2.17	0.45
9:KN:344:TRP:HZ3	8:KO:403:ALA:HB2	1.81	0.45
9:LB:1:MET:HE1	9:LB:46:ARG:CZ	2.47	0.45
8:LC:137:ILE:HG13	8:LC:154:MET:HE2	1.98	0.45
9:LL:260:PHE:HB2	9:LL:263:LEU:HD13	1.98	0.45
9:LN:290:THR:HG21	9:LN:329:GLN:HB3	1.97	0.45
9:MF:330:MET:HB3	9:MF:349:VAL:HG11	1.97	0.45
8:NA:238:ILE:HD11	8:NA:378:LEU:HD11	1.98	0.45
8:NG:135:PHE:HB2	8:NG:166:LYS:HA	1.98	0.45
8:NG:419:SER:HA	8:NG:422:ARG:HG2	1.98	0.45
9:NH:87:PRO:HA	9:NH:90:PHE:HD2	1.81	0.45
9:NH:197:ASP:OD2	9:NH:197:ASP:N	2.46	0.45
9:O0:250:LEU:HA	9:O0:253:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OA:152:LEU:O	8:OA:156:ARG:HG2	2.17	0.45
9:OD:2:ARG:H	9:OD:2:ARG:HG2	1.55	0.45
9:OD:66:VAL:HG23	9:OD:91:VAL:HG23	1.98	0.45
9:OF:108:GLU:HA	9:OF:111:GLU:HG2	1.98	0.45
9:OH:324:LYS:NZ	8:OI:222:PRO:O	2.49	0.45
8:PA:11:GLN:NE2	8:PA:15:GLN:OE1	2.49	0.45
8:PE:228:ASN:HA	8:PE:231:ILE:HG22	1.98	0.45
8:PE:324:VAL:HG11	9:PF:219:THR:HB	1.97	0.45
9:PF:117:LEU:HD21	9:PF:154:LYS:HZ2	1.80	0.45
9:PF:184:ASN:OD1	9:PF:398:TYR:OH	2.29	0.45
8:PM:209:ILE:HA	8:PM:212:ILE:HG22	1.99	0.45
9:QB:242:PHE:HD2	9:QB:356:ILE:HB	1.82	0.45
8:QC:258:ASN:HD22	8:QC:352:LYS:HG3	1.80	0.45
9:QF:262:ARG:HE	9:QF:418:LEU:HD11	1.82	0.45
9:QF:286:VAL:HA	9:QF:289:LEU:HB2	1.97	0.45
8:QI:133:GLN:HE22	8:QI:251:ASP:HB3	1.82	0.45
8:QM:193:THR:O	8:QM:197:HIS:ND1	2.40	0.45
8:RA:180:ALA:N	8:RA:183:GLU:OE2	2.37	0.45
8:RC:291:ILE:HG12	8:RC:375:VAL:HG12	1.99	0.45
9:RF:130:LEU:HD11	9:RF:133:PHE:CZ	2.52	0.45
9:RF:305:PRO:HG2	9:RF:310:TYR:OH	2.16	0.45
8:RG:4:CYS:HB2	8:RG:52:PHE:HE1	1.82	0.45
8:RI:336:LYS:O	8:RI:339:ARG:NH2	2.47	0.45
8:SA:172:TYR:HD1	8:SA:173:PRO:HD2	1.81	0.45
9:SB:28:HIS:HD2	9:SB:47:ILE:HG13	1.80	0.45
8:SK:199:ASP:HB3	8:SK:256:GLN:OE1	2.16	0.45
9:SL:54:ALA:HB3	9:SL:58:LYS:HB3	1.98	0.45
8:TI:259:LEU:HD12	8:TI:316:CYS:HB2	1.99	0.45
9:TJ:128:ASP:N	9:TJ:128:ASP:OD1	2.48	0.45
54:U:275:THR:HG23	54:U:276:LEU:HD12	1.98	0.45
8:UG:338:LYS:HE2	8:UG:338:LYS:HB2	1.74	0.45
9:UH:249:ASP:OD1	9:UH:252:LYS:HG2	2.15	0.45
9:UJ:207:LEU:HB3	9:UJ:225:LEU:HD13	1.99	0.45
8:VI:140:SER:OG	67:VI:502:GTP:O2A	2.31	0.45
9:VL:75:SER:HA	9:VL:78:SER:HB3	1.99	0.45
8:VM:8:HIS:HA	8:VM:138:PHE:HB2	1.98	0.45
8:VM:204:VAL:HG13	8:VM:209:ILE:HD11	1.99	0.45
9:WH:101:TRP:HD1	9:WH:403:MET:HE1	1.81	0.45
9:WH:122:LYS:NZ	57:YJ:212:ASP:O	2.40	0.45
9:WN:237:THR:HG22	9:WN:250:LEU:HD21	1.98	0.45
9:WN:330:MET:SD	9:WN:351:THR:OG1	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:X:97:LEU:HB2	47:X:124:TYR:HB3	1.98	0.45
47:X:347:CYS:HB2	47:X:351:THR:HB	1.98	0.45
47:Y:325:THR:HG22	47:Y:326:ALA:H	1.82	0.45
60:e:356:LYS:HB2	60:e:379:THR:HG23	1.99	0.45
62:i:45:ARG:HB3	62:i:45:ARG:HH11	1.82	0.45
64:ke:110:LYS:O	64:ke:110:LYS:NZ	2.47	0.45
63:n:122:LYS:HG3	63:n:123:TYR:CE1	2.51	0.45
4:z:1338:GLU:HG3	4:z:1377:TYR:HD1	1.81	0.45
2:0C:37:ALA:O	2:0C:38:HIS:ND1	2.47	0.45
2:0Y:143:PRO:HA	2:0Y:146:LEU:HG	1.98	0.45
3:1:145:PRO:HD3	3:1:149:ARG:HB3	1.99	0.45
7:A1:75:LYS:NZ	7:A1:82:ASP:H	2.15	0.45
7:A7:29:LYS:NZ	8:RK:160:ASP:OD2	2.47	0.45
9:AF:262:ARG:NH2	57:YJ:247:MET:SD	2.89	0.45
8:AG:437:VAL:O	9:AH:391:ARG:NH1	2.49	0.45
9:AH:207:LEU:HB3	9:AH:225:LEU:HD22	1.98	0.45
8:AK:206:ASN:ND2	67:AK:501:GTP:O2'	2.49	0.45
10:AP:82:THR:HG21	9:LH:395:LEU:HB3	1.99	0.45
11:AU:504:MET:HE2	8:GG:29:GLY:HA2	1.99	0.45
13:Ab:351:ARG:HG3	13:Ab:359:PHE:HE2	1.82	0.45
13:Ac:514:TYR:O	13:Ac:518:TYR:HB2	2.17	0.45
13:Ad:74:GLU:O	9:BB:280:GLN:NE2	2.49	0.45
14:Al:16:TYR:CG	14:Al:39:THR:HG21	2.52	0.45
15:Aq:184:ARG:NH1	47:Y:227:THR:O	2.49	0.45
15:Ar:11:THR:O	15:Ar:11:THR:OG1	2.28	0.45
18:B6:93:LEU:HA	18:B6:96:ASP:HB2	1.98	0.45
9:BD:232:THR:OG1	9:BD:269:GLY:O	2.32	0.45
9:BH:140:GLY:HA2	9:BH:181:GLU:OE2	2.16	0.45
14:Ba:185:ASP:N	14:Ba:185:ASP:OD1	2.47	0.45
14:Bb:241:VAL:O	14:Bb:245:MET:HG2	2.16	0.45
14:Bc:267:PRO:HB2	14:Bc:270:HIS:CD2	2.50	0.45
24:Bh:55:MET:O	24:Bh:59:LYS:HD2	2.16	0.45
27:Bs:328:GLU:O	27:Bs:332:ILE:HG22	2.16	0.45
26:Bu:290:HIS:ND1	26:Bu:291:PRO:HD2	2.32	0.45
28:C2:130:ASP:OD2	33:Cv:36:HIS:NE2	2.45	0.45
28:C7:108:GLN:O	28:C7:112:THR:HG23	2.17	0.45
9:CB:139:LEU:O	9:CB:145:SER:OG	2.34	0.45
9:CB:256:ASN:OD1	8:CC:181:VAL:HG22	2.16	0.45
8:CG:76:ASP:O	8:CG:80:THR:OG1	2.30	0.45
9:CL:41:ASP:OD2	48:L:100:LEU:HD13	2.16	0.45
14:CN:43:LEU:O	14:CN:50:LYS:NZ	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:106:SER:OG	2:CV:107:GLN:N	2.49	0.45
30:CW:290:TRP:HA	30:CW:293:GLU:OE1	2.16	0.45
30:CW:293:GLU:CD	30:CW:293:GLU:H	2.24	0.45
2:Cd:111:LEU:HD21	2:Cd:138:VAL:HG12	1.98	0.45
32:Cp:107:GLU:CD	32:Cp:108:PRO:HD3	2.41	0.45
33:Cq:79:ASP:OD1	43:E1:127:TYR:HB2	2.17	0.45
33:Cx:81:CYS:HB3	33:Cx:172:LEU:HD21	1.98	0.45
29:D3:266:ILE:HD13	29:D3:269:LYS:HE2	1.98	0.45
9:DB:14:ASN:HB3	9:DB:76:VAL:HG21	1.96	0.45
9:DD:262:ARG:HH21	9:DD:418:LEU:HD13	1.82	0.45
8:DE:324:VAL:HG13	8:DE:327:ASP:HB2	1.99	0.45
9:DF:173:PRO:HA	9:DF:380:ARG:NH1	2.32	0.45
8:DK:134:GLY:HA3	8:DK:165:SER:HB2	1.99	0.45
29:DS:217:ASN:OD1	29:DS:220:ARG:NH2	2.48	0.45
35:Da:92:LEU:HD22	35:Da:154:VAL:HG12	1.98	0.45
9:ED:245:GLN:H	9:ED:245:GLN:HG2	1.56	0.45
9:ED:267:MET:HE2	9:ED:301:ALA:HB3	1.98	0.45
8:EE:248:LEU:H	8:EE:355:ILE:HB	1.82	0.45
9:EH:404:ASP:OD1	9:EH:406:MET:N	2.49	0.45
8:EI:108:TYR:HA	8:EI:112:LYS:HD3	1.97	0.45
29:EO:137:MET:HE1	29:EQ:425:THR:OG1	2.17	0.45
44:EW:439:THR:HG22	44:EW:442:GLN:OE1	2.17	0.45
44:EY:138:LEU:HD23	44:EY:138:LEU:HA	1.86	0.45
42:F:481:TYR:HB2	42:F:486:PHE:HD2	1.82	0.45
9:FB:202:ILE:HD13	9:FB:202:ILE:HA	1.85	0.45
9:FL:284:LEU:HB3	9:FL:285:THR:HG23	1.98	0.45
8:GC:301:GLN:HE22	8:GC:307:PRO:HD3	1.81	0.45
8:GC:430:LYS:HE2	8:GC:430:LYS:HA	1.99	0.45
8:GK:288:VAL:HG23	8:GK:319:TYR:HE2	1.80	0.45
8:GM:79:ARG:NH2	8:GM:92:LEU:O	2.49	0.45
9:GN:170:VAL:N	9:GN:202:ILE:O	2.45	0.45
9:HB:115:SER:O	9:HB:119:VAL:HG23	2.17	0.45
9:HB:298:ASN:O	9:HB:298:ASN:ND2	2.43	0.45
8:HI:352:LYS:HZ3	9:HJ:178:THR:HA	1.81	0.45
8:HK:109:THR:HG21	8:HK:411:GLU:HB2	1.97	0.45
8:HM:406:HIS:HA	8:HM:409:VAL:HG22	1.98	0.45
8:IG:188:ILE:HG21	8:IG:395:LEU:HD22	1.98	0.45
9:JD:198:GLU:HG2	9:JD:266:PHE:CE2	2.50	0.45
8:JE:188:ILE:HG13	8:JE:395:LEU:HD22	1.98	0.45
9:JH:7:LEU:HD23	9:JH:64:VAL:HB	1.99	0.45
9:JN:102:ALA:HB2	9:JN:398:TYR:HD1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KC:248:LEU:HD21	69:KD:501:GDP:H2'	1.99	0.45
8:KE:69:ASP:OD2	8:KE:70:LEU:N	2.49	0.45
9:KH:7:LEU:HD23	9:KH:64:VAL:HB	1.98	0.45
8:KO:175:PRO:HB3	8:KO:390:ARG:CZ	2.46	0.45
9:LB:107:THR:OG1	9:LB:108:GLU:N	2.48	0.45
9:LD:40:SER:HB3	9:LD:43:GLN:HG3	1.99	0.45
9:LH:186:THR:HG23	9:LH:415:MET:HE2	1.99	0.45
8:LM:167:LEU:HD21	8:LM:255:PHE:HZ	1.81	0.45
9:MB:131:GLN:HE22	9:MB:250:LEU:HB2	1.81	0.45
9:MD:27:GLU:OE1	9:MD:241:ARG:NH1	2.46	0.45
9:MF:194:GLU:OE2	54:R:217:TYR:OH	2.34	0.45
9:MH:173:PRO:HG3	9:MH:380:ARG:HD2	1.98	0.45
9:MH:344:TRP:CD1	9:MH:344:TRP:H	2.34	0.45
9:N0:32:PRO:HD3	9:N0:81:PHE:HE1	1.82	0.45
9:NB:332:ASN:OD1	9:NB:332:ASN:N	2.49	0.45
9:ND:346:PRO:HG2	8:NE:394:LYS:HG3	1.98	0.45
9:NF:213:ARG:HB3	9:NF:213:ARG:CZ	2.47	0.45
8:OI:103:TYR:CE1	8:OI:148:GLY:HA2	2.52	0.45
9:OJ:21:TRP:HB3	9:OJ:81:PHE:HE2	1.81	0.45
8:OK:88:HIS:CD2	8:OK:90:GLU:HB2	2.52	0.45
8:OK:209:ILE:HG21	8:OK:230:LEU:HD11	1.98	0.45
9:PB:267:MET:HE3	9:PB:299:MET:HE1	1.97	0.45
9:PD:152:ILE:HG13	9:PD:195:ASN:HD21	1.81	0.45
8:PM:336:LYS:HD3	8:PM:336:LYS:HA	1.82	0.45
8:QE:103:TYR:H	8:QE:408:TYR:HE1	1.61	0.45
8:QG:70:LEU:HD12	8:QG:99:ALA:HB2	1.98	0.45
9:QH:147:MET:HE3	9:QH:147:MET:HB3	1.83	0.45
8:QK:157:LEU:HD11	8:QK:166:LYS:HD3	1.98	0.45
8:QK:201:ALA:H	8:QK:268:PRO:HD2	1.82	0.45
8:QK:273:ALA:HB2	8:QK:295:CYS:HB2	1.97	0.45
54:R:119:ASN:HB3	54:R:149:ILE:HB	1.97	0.45
9:RB:255:VAL:HG11	8:RC:100:ALA:HB1	1.97	0.45
9:RD:135:LEU:HD21	9:RD:166:THR:HG22	1.97	0.45
9:RF:40:SER:HB3	9:RF:43:GLN:HG3	1.99	0.45
8:RI:231:ILE:O	8:RI:235:VAL:HG12	2.17	0.45
9:RJ:293:MET:SD	9:RJ:367:PHE:HB2	2.56	0.45
8:RM:422:ARG:HH21	8:RM:425:LEU:HD22	1.81	0.45
9:SB:380:ARG:O	9:SB:383:GLU:HG3	2.16	0.45
9:SH:309:ARG:HD3	9:SH:426:GLN:HE22	1.81	0.45
8:SI:317:MET:SD	8:SI:319:TYR:HE2	2.40	0.45
8:TC:293:ASN:HB3	8:TC:335:ILE:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TE:320:ARG:HH21	8:TE:360:PRO:HA	1.81	0.45
9:TH:276:ARG:HH22	46:o:365:LEU:HD23	1.81	0.45
9:TJ:321:MET:HE1	9:TJ:363:MET:HE3	1.98	0.45
8:TK:252:LEU:HD13	8:TK:255:PHE:HZ	1.81	0.45
8:TM:9:VAL:HG13	8:TM:139:HIS:HB3	1.98	0.45
8:UC:60:LYS:HG3	8:VC:283:HIS:ND1	2.31	0.45
9:UJ:378:PHE:HB3	9:UJ:415:MET:HE1	1.98	0.45
9:UL:240:LEU:HD12	9:UL:249:ASP:HB2	1.98	0.45
1:V:124:ILE:O	1:V:127:ARG:NH2	2.49	0.45
9:VB:31:ASP:HB3	9:VB:33:THR:HG22	1.98	0.45
9:VB:165:ASN:HB3	9:VB:198:GLU:OE2	2.17	0.45
8:VE:169:PHE:HE2	8:VE:202:PHE:CE2	2.35	0.45
9:VH:134:GLN:HB2	9:VH:167:PHE:HE2	1.80	0.45
8:VK:250:VAL:HG22	8:VK:352:LYS:NZ	2.32	0.45
9:VN:273:LEU:HD12	9:VN:273:LEU:HA	1.85	0.45
9:WB:207:LEU:HD23	9:WB:225:LEU:HB3	1.98	0.45
8:WC:192:HIS:HD2	8:WC:421:ALA:HA	1.82	0.45
9:WD:320:ARG:HH12	65:t:147:ILE:HD13	1.82	0.45
9:WJ:270:PHE:O	9:WJ:298:ASN:ND2	2.34	0.45
8:WK:21:TRP:HA	8:WK:24:TYR:HB2	1.98	0.45
8:WK:226:ASN:OD1	8:WK:226:ASN:N	2.50	0.45
8:WM:139:HIS:CE1	8:WM:141:PHE:HE1	2.35	0.45
9:WN:52:ASN:HD21	9:WN:62:ARG:HD3	1.80	0.45
60:e:514:HIS:CD2	60:e:516:GLU:H	2.35	0.45
60:g:299:ILE:HD12	60:g:299:ILE:HA	1.81	0.45
60:g:574:VAL:HB	60:g:583:THR:HB	1.99	0.45
62:j:11:ARG:HG3	62:j:15:TRP:CE2	2.51	0.45
2:0G:30:LEU:O	2:0G:34:ARG:HG3	2.16	0.45
2:0a:17:LYS:HD3	2:0a:17:LYS:HA	1.64	0.45
2:0c:142:ILE:O	2:0c:146:LEU:HD23	2.16	0.45
2:0e:15:LYS:NZ	2:0e:72:ASP:OD2	2.44	0.45
2:0g:41:ILE:HD12	2:0g:42:ARG:HD2	1.99	0.45
2:0i:111:LEU:HD22	2:0i:141:LEU:HD11	1.98	0.45
7:A1:30:TYR:C	8:PK:308:ARG:HH22	2.25	0.45
7:A3:221:HIS:H	8:QC:340:THR:HG21	1.82	0.45
7:A7:8:GLY:O	7:A7:11:ARG:NH2	2.49	0.45
9:AD:130:LEU:O	9:AD:162:ARG:NE	2.48	0.45
8:AG:143:GLY:O	8:AG:186:ASN:ND2	2.50	0.45
8:AK:143:GLY:O	8:AK:186:ASN:ND2	2.50	0.45
13:Ab:630:TYR:CD1	47:I:429:PRO:HD3	2.52	0.45
13:Ac:278:VAL:HG12	9:CF:26:ASP:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ad:262:SER:HB2	8:CA:46:ASP:HB3	1.99	0.45
13:Ad:326:ILE:HD11	13:Ad:342:CYS:SG	2.57	0.45
14:Ao:73:PRO:O	14:Ao:73:PRO:HD2	2.17	0.45
7:Av:208:PRO:HA	9:OH:213:ARG:HH22	1.81	0.45
7:Ay:182:PRO:HD2	8:GC:341:ILE:HD11	1.99	0.45
5:B:118:LYS:NZ	8:VG:80:THR:HA	2.31	0.45
18:B6:122:LYS:H	18:B6:122:LYS:HG2	1.56	0.45
8:BA:107:HIS:HD2	8:BA:152:LEU:HD23	1.82	0.45
9:BB:282:ARG:NH2	9:BB:288:GLU:OE1	2.50	0.45
8:BE:251:ASP:HB3	8:BE:254:GLU:HG3	1.98	0.45
9:BF:119:VAL:O	9:BF:123:GLU:HG2	2.16	0.45
6:BN:195:MET:HB2	6:BN:197:ARG:HH11	1.81	0.45
6:BN:200:GLY:N	8:HO:123:ARG:HH22	2.14	0.45
27:Bs:210:LEU:HD13	45:G:551:PHE:HB2	1.98	0.45
27:Bs:454:LYS:O	27:Bs:458:THR:OG1	2.35	0.45
8:CA:79:ARG:NH2	48:M:107:GLY:N	2.61	0.45
9:CB:161:ASP:N	9:CB:161:ASP:OD1	2.48	0.45
9:CB:250:LEU:HA	9:CB:253:LEU:HD12	1.98	0.45
8:CG:124:LYS:HD3	8:CG:124:LYS:HA	1.79	0.45
9:CH:154:LYS:HD3	9:CH:154:LYS:HA	1.65	0.45
2:Cf:16:TYR:HB2	2:Cf:142:ILE:HD11	1.99	0.45
2:Ch:26:PHE:O	2:Ch:30:LEU:HD22	2.16	0.45
32:Co:152:ARG:HA	32:Co:152:ARG:HD3	1.66	0.45
32:Cp:107:GLU:OE2	32:Cp:398:PRO:HG3	2.15	0.45
33:Cw:279:LEU:HD21	33:Cw:373:LEU:HD22	1.98	0.45
29:D8:274:ARG:HD3	29:D8:274:ARG:HA	1.81	0.45
9:DB:241:ARG:CZ	9:DB:242:PHE:HE1	2.29	0.45
8:DC:103:TYR:CD2	8:DC:189:LEU:HD23	2.52	0.45
8:DE:265:ILE:HG21	8:DE:313:MET:HE1	1.97	0.45
9:DH:239:CYS:H	9:DH:318:ARG:HH12	1.65	0.45
9:DJ:117:LEU:HD13	9:DJ:121:ARG:HH12	1.81	0.45
29:DS:346:PHE:O	29:DS:350:ILE:HG23	2.17	0.45
9:EF:284:LEU:HG	9:EF:363:MET:HB2	1.99	0.45
8:EG:2:ARG:NH1	8:EG:242:LEU:O	2.42	0.45
9:EH:412:GLU:HA	9:EH:415:MET:HG2	1.98	0.45
8:EI:56:THR:HG23	8:EI:58:ALA:H	1.82	0.45
9:EJ:58:LYS:HE3	9:EJ:58:LYS:HB3	1.71	0.45
9:EN:214:THR:O	9:EN:275:SER:OG	2.31	0.45
29:EO:127:MET:HE3	29:EQ:381:LEU:HD23	1.99	0.45
29:EO:268:GLU:CD	44:EY:323:ARG:HH12	2.23	0.45
44:EW:84:LEU:HD22	44:EZ:394:LYS:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FG:188:ILE:HG13	8:FG:395:LEU:HD13	1.99	0.45
8:FI:172:TYR:HD1	8:FI:173:PRO:HD2	1.82	0.45
8:FI:430:LYS:HD2	8:FI:430:LYS:HA	1.76	0.45
9:FJ:415:MET:HE2	9:FJ:415:MET:HB3	1.87	0.45
9:FN:62:ARG:HG3	9:FN:123:GLU:OE2	2.17	0.45
8:GC:222:PRO:HB2	8:GC:226:ASN:HB2	1.98	0.45
9:GF:42:LEU:HD21	9:GF:356:ILE:HG13	1.99	0.45
9:GF:204:ASN:OD1	69:GF:501:GDP:O2'	2.32	0.45
8:GG:311:LYS:HG2	8:GG:342:GLN:HB3	1.99	0.45
9:GH:101:TRP:NE1	9:GH:145:SER:O	2.48	0.45
9:GJ:22:GLU:HA	9:GJ:81:PHE:HD2	1.81	0.45
8:GK:17:GLY:HA2	8:GK:20:CYS:HB2	1.98	0.45
9:GL:55:THR:OG1	9:HL:282:ARG:O	2.34	0.45
9:GL:272:PRO:HG3	9:GL:364:SER:HA	1.99	0.45
8:HE:71:GLU:HB3	8:HE:98:ASP:HB2	1.99	0.45
8:HG:332:ILE:HD13	8:HG:332:ILE:HA	1.77	0.45
9:HH:161:ASP:OD1	9:HH:161:ASP:N	2.42	0.45
9:HJ:86:ARG:HH22	9:IJ:282:ARG:HA	1.80	0.45
9:HJ:189:VAL:HA	9:HJ:192:LEU:HB2	1.99	0.45
8:HM:11:GLN:HG3	8:HM:74:VAL:HG21	1.98	0.45
9:ID:271:ALA:HB2	9:ID:293:MET:HB3	1.99	0.45
9:ID:321:MET:SD	9:ID:321:MET:N	2.90	0.45
8:IE:212:ILE:HA	8:IE:212:ILE:HD13	1.84	0.45
8:IG:127:ASP:OD2	51:N:97:ARG:NH1	2.49	0.45
9:IH:267:MET:HA	9:IH:268:PRO:HD3	1.74	0.45
8:II:248:LEU:HD21	69:IJ:501:GDP:H2'	1.99	0.45
8:II:331:ALA:O	8:II:334:THR:OG1	2.28	0.45
9:JB:380:ARG:HA	9:JB:383:GLU:HG3	1.99	0.45
8:JI:206:ASN:ND2	67:JI:501:GTP:O2'	2.50	0.45
9:JL:100:ASN:HB3	9:JL:103:LYS:HG2	1.99	0.45
9:KB:252:LYS:HD3	8:KC:100:ALA:HA	1.99	0.45
9:KH:323:MET:HE3	9:KH:323:MET:HB3	1.78	0.45
9:KL:70:PRO:HA	9:KL:73:MET:HE3	1.98	0.45
8:LK:38:SER:O	8:LK:40:LYS:NZ	2.38	0.45
8:LK:440:VAL:O	54:S:260:ARG:NH2	2.48	0.45
9:LN:302:ALA:O	9:LN:380:ARG:NH2	2.48	0.45
8:NA:420:GLU:HA	8:NA:423:GLU:OE1	2.17	0.45
9:NB:323:MET:SD	9:NB:323:MET:N	2.90	0.45
9:NF:130:LEU:HB3	9:NF:162:ARG:HE	1.81	0.45
9:NH:133:PHE:HB2	9:NH:164:MET:HE1	1.99	0.45
9:NH:278:SER:O	9:NH:278:SER:OG	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NK:255:PHE:O	8:NK:259:LEU:HB2	2.16	0.45
9:O0:20:PHE:CG	9:O0:233:MET:HE2	2.52	0.45
8:OA:327:ASP:OD1	8:OA:327:ASP:N	2.48	0.45
8:OI:278:ALA:HA	8:OI:369:ALA:HB2	1.99	0.45
8:OK:260:VAL:HG23	9:OL:397:TRP:HH2	1.82	0.45
9:OL:107:THR:OG1	9:OL:108:GLU:N	2.49	0.45
9:OL:287:PRO:HA	9:OL:329:GLN:NE2	2.30	0.45
8:PA:423:GLU:CD	8:PA:423:GLU:H	2.25	0.45
9:PF:116:VAL:HG11	9:PF:151:LEU:HD21	1.98	0.45
9:PF:375:GLN:O	9:PF:379:LYS:HG2	2.17	0.45
8:PM:93:ILE:HD13	8:PM:93:ILE:HA	1.88	0.45
8:QA:422:ARG:HH12	8:QA:425:LEU:HD12	1.82	0.45
8:QC:175:PRO:HB2	8:QC:390:ARG:HH11	1.81	0.45
9:QF:156:ARG:HH21	9:QF:164:MET:HB2	1.82	0.45
8:QG:11:GLN:O	8:QG:15:GLN:HG3	2.17	0.45
9:QH:268:PRO:HB2	9:QH:300:MET:HE2	1.99	0.45
9:QL:229:VAL:HA	9:QL:300:MET:HE1	1.98	0.45
8:RA:362:VAL:HG11	8:RA:370:LYS:HD2	1.97	0.45
9:RF:68:LEU:HG	9:RF:96:GLY:HA2	1.98	0.45
8:RG:170:ALA:HB3	8:RG:203:MET:HE1	1.98	0.45
9:RH:181:GLU:HA	9:RH:184:ASN:HD22	1.80	0.45
9:RH:237:THR:HB	9:RH:240:LEU:HD23	1.99	0.45
8:RK:411:GLU:N	8:RK:411:GLU:OE2	2.49	0.45
9:RL:63:ALA:O	9:RL:89:ASN:ND2	2.50	0.45
8:RM:91:GLN:HG3	8:RM:121:ARG:HH21	1.82	0.45
8:SA:297:GLU:HA	8:SA:298:PRO:HD3	1.82	0.45
8:SC:268:PRO:HA	8:SC:380:ASN:HB3	1.99	0.45
9:SH:288:GLU:HA	9:SH:291:GLN:HB2	1.98	0.45
8:SM:259:LEU:HD21	8:SM:378:LEU:HB3	1.98	0.45
8:TC:303:VAL:HG11	8:TC:384:ILE:HD11	1.99	0.45
9:TD:210:ILE:O	9:TD:214:THR:OG1	2.31	0.45
9:TF:62:ARG:NH1	9:TF:127:CYS:SG	2.90	0.45
8:TK:328:VAL:O	8:TK:332:ILE:HB	2.16	0.45
9:TL:137:HIS:CE1	9:TL:148:GLY:HA3	2.50	0.45
8:TM:185:TYR:OH	8:TM:398:MET:HB3	2.16	0.45
9:UB:19:LYS:HD2	9:UB:19:LYS:HA	1.80	0.45
8:UC:172:TYR:OH	8:UC:388:TRP:NE1	2.47	0.45
8:UC:319:TYR:HD2	8:UC:323:VAL:HG11	1.81	0.45
8:UE:228:ASN:OD1	67:UE:501:GTP:N1	2.46	0.45
8:UE:318:LEU:HB2	8:UE:376:CYS:HB3	1.97	0.45
9:UF:67:ASP:OD1	9:UF:68:LEU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UF:239:CYS:HB3	9:UF:247:ASN:HB2	1.97	0.45
9:UL:57:GLY:HA3	59:b:285:LEU:HD11	1.98	0.45
9:UN:272:PRO:HG3	9:UN:289:LEU:HD11	1.98	0.45
9:VB:190:HIS:HD2	9:VB:411:ALA:HA	1.82	0.45
8:VC:51:THR:HG21	8:VC:243:ARG:HB3	1.98	0.45
8:VC:262:TYR:OH	9:VD:391:ARG:O	2.35	0.45
9:VD:263:LEU:HB2	9:VD:422:TYR:HE1	1.81	0.45
8:VI:211:ASP:HB3	8:VI:215:ARG:HD3	1.98	0.45
8:VK:137:ILE:HB	8:VK:168:GLU:HB2	1.98	0.45
55:W:91:LYS:HD3	55:W:91:LYS:HA	1.68	0.45
9:WB:271:ALA:HB1	9:WB:289:LEU:HD22	1.97	0.45
8:WC:192:HIS:CD2	8:WC:421:ALA:HA	2.51	0.45
8:WE:339:ARG:O	8:WE:339:ARG:NH1	2.37	0.45
9:WF:49:VAL:HG21	9:WF:241:ARG:HG2	1.99	0.45
9:WH:8:GLN:NE2	9:WH:17:GLY:HA3	2.32	0.45
9:WJ:27:GLU:HA	9:WJ:359:ARG:HH12	1.80	0.45
8:WK:67:PHE:HB2	8:WK:92:LEU:HD22	1.99	0.45
9:WL:308:GLY:HA3	9:WL:373:ALA:HB2	1.98	0.45
56:XH:35:LYS:HE2	56:XH:37:ILE:HD11	1.99	0.45
56:XM:85:LYS:O	56:XM:107:ASN:ND2	2.48	0.45
59:b:389:ALA:HA	59:b:392:ASN:HD22	1.80	0.45
60:e:295:GLY:O	60:e:313:GLU:N	2.50	0.45
60:e:354:CYS:HB2	60:e:359:ILE:HG12	1.98	0.45
60:e:488:CYS:HB2	60:e:502:ILE:HB	1.98	0.45
60:f:400:ARG:HH21	65:r:144:GLN:HE22	1.64	0.45
63:m:90:HIS:O	63:m:94:VAL:HG23	2.17	0.45
2:0A:47:ILE:HD11	2:0A:141:LEU:HD13	1.99	0.45
2:0G:115:ARG:HH21	2:0G:132:ARG:HA	1.81	0.45
4:3:1359:GLU:O	4:3:1363:LEU:HB2	2.16	0.45
7:A9:71:SER:HB3	8:TC:308:ARG:HH12	1.82	0.45
8:AC:340:THR:HG21	65:t:76:LEU:HB2	1.99	0.45
8:AG:50:ASN:O	8:AG:64:ARG:NH1	2.50	0.45
8:AG:199:ASP:OD2	8:AG:256:GLN:NE2	2.49	0.45
10:AP:83:SER:O	10:AP:83:SER:OG	2.33	0.45
11:AT:137:LEU:CD1	27:Bs:327:GLU:HG3	2.36	0.45
12:AV:143:ARG:HH21	29:C1:278:ASP:HA	1.81	0.45
13:Ab:81:GLU:OE2	9:BJ:276:ARG:NH1	2.49	0.45
13:Ad:228:VAL:HG21	9:CB:56:GLY:HA3	1.98	0.45
13:Ad:531:ILE:HD12	13:Ad:531:ILE:HA	1.82	0.45
7:Av:200:TYR:OH	9:OH:287:PRO:O	2.26	0.45
5:B:154:CYS:O	9:VH:78:SER:OG	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BB:12:CYS:HB2	69:BB:501:GDP:C8	2.52	0.45
8:BC:331:ALA:O	8:BC:334:THR:OG1	2.35	0.45
8:BE:188:ILE:HA	8:BE:191:THR:HG22	1.98	0.45
9:BH:28:HIS:HA	9:BH:43:GLN:HB3	1.97	0.45
9:BJ:42:LEU:HD13	9:BJ:356:ILE:HD11	1.98	0.45
19:BP:470:PRO:O	8:MG:163:LYS:NZ	2.50	0.45
22:BW:170:ARG:HH11	8:ME:32:PRO:HG2	1.82	0.45
27:Bs:477:MET:HE3	27:Bs:477:MET:HB3	1.80	0.45
26:Bu:179:THR:OG1	33:Cs:30:ARG:NH2	2.48	0.45
28:C0:365:LEU:O	28:C0:369:LEU:HD23	2.16	0.45
28:C5:181:LEU:HA	28:C5:181:LEU:HD12	1.84	0.45
9:CD:132:GLY:HA2	9:CD:162:ARG:HB3	1.99	0.45
8:CI:267:PHE:CE2	8:CI:388:TRP:HZ2	2.34	0.45
9:CJ:170:VAL:HG21	9:CJ:377:LEU:HD11	1.99	0.45
8:CK:43:GLY:O	47:Y:267:TYR:OH	2.34	0.45
9:CL:8:GLN:N	9:CL:8:GLN:OE1	2.49	0.45
8:CM:406:HIS:HA	8:CM:409:VAL:HG12	1.97	0.45
2:CT:127:SER:HA	8:PI:84:ARG:HD3	1.98	0.45
2:CX:149:MET:O	2:CX:153:VAL:HG23	2.17	0.45
2:CX:150:LYS:HA	2:CX:150:LYS:HD2	1.85	0.45
2:Cb:26:PHE:HA	2:Cb:66:ILE:HG12	1.99	0.45
32:Cm:106:LYS:HE3	32:Cm:106:LYS:HB2	1.78	0.45
32:Co:114:LYS:HD3	32:Co:114:LYS:HA	1.73	0.45
33:Cq:275:LEU:HD23	33:Cq:275:LEU:HA	1.84	0.45
33:Cr:7:LYS:NZ	44:EU:333:GLU:OE2	2.50	0.45
33:Cs:3:THR:OG1	33:Cs:4:LEU:N	2.32	0.45
33:Cu:276:TYR:HE1	33:Cu:377:ILE:HG23	1.81	0.45
33:Cv:205:PRO:C	33:Cw:318:LEU:HD22	2.42	0.45
29:D1:137:MET:O	29:D1:141:THR:HG23	2.17	0.45
29:D1:161:TYR:CZ	29:D1:165:ARG:HD3	2.51	0.45
29:D1:438:ARG:HH11	29:D1:438:ARG:HG2	1.81	0.45
29:D4:113:ARG:HH12	29:D5:366:LYS:HG3	1.80	0.45
29:D8:177:LYS:HB2	29:D8:177:LYS:HE2	1.68	0.45
8:DA:133:GLN:N	8:DA:133:GLN:OE1	2.49	0.45
9:DB:271:ALA:O	9:DB:292:GLN:NE2	2.49	0.45
8:DK:157:LEU:HD11	8:DK:166:LYS:HD2	1.99	0.45
8:DM:206:ASN:OD1	67:DM:501:GTP:N2	2.50	0.45
8:DM:280:LYS:HA	8:DM:280:LYS:HE3	1.98	0.45
9:DN:15:GLN:O	9:DN:226:ASN:ND2	2.49	0.45
29:DT:349:ARG:O	29:DT:353:GLU:HG3	2.16	0.45
29:DT:457:GLU:O	29:DT:461:LYS:HE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:E1:50:LYS:HE2	28:F3:310:ARG:NH1	2.32	0.45
9:EB:330:MET:HE2	9:EB:330:MET:HB3	1.76	0.45
9:EF:242:PHE:HD2	9:EF:356:ILE:HD12	1.82	0.45
8:EG:326:LYS:HD3	9:EH:220:PRO:HD2	1.97	0.45
8:EG:336:LYS:O	8:EG:339:ARG:NH2	2.49	0.45
9:EH:324:LYS:CD	8:EI:210:TYR:HD2	2.30	0.45
8:EK:255:PHE:HZ	8:EK:318:LEU:HD11	1.82	0.45
44:ET:293:LEU:HD23	44:ET:443:LEU:HD22	1.98	0.45
44:EV:347:GLU:OE1	44:EV:351:LYS:NZ	2.50	0.45
44:EW:243:HIS:HB2	44:EW:247:PHE:CE2	2.52	0.45
42:F:496:THR:OG1	8:IK:322:ASP:OD2	2.35	0.45
8:FG:389:ALA:HA	8:FG:392:ASP:HB3	1.98	0.45
8:FI:53:PHE:O	8:FI:64:ARG:NH2	2.50	0.45
8:FI:137:ILE:HG21	8:FI:154:MET:HE1	1.98	0.45
8:FM:253:THR:HA	8:FM:256:GLN:HB3	1.98	0.45
9:FN:8:GLN:HE22	9:FN:17:GLY:HA3	1.81	0.45
9:GB:147:MET:SD	9:GB:147:MET:N	2.69	0.45
8:GC:408:TYR:HB3	8:GC:413:MET:HE2	1.97	0.45
8:GI:274:PRO:HG2	8:GI:374:ALA:HA	1.98	0.45
8:GI:338:LYS:HB2	8:GI:341:ILE:HD12	1.98	0.45
9:GL:393:ALA:O	9:GL:395:LEU:N	2.49	0.45
46:H:595:ILE:HD13	46:H:595:ILE:HA	1.85	0.45
9:HL:113:VAL:HA	9:HL:116:VAL:HG12	1.98	0.45
9:HN:209:ASP:HB3	9:HN:213:ARG:HH12	1.82	0.45
47:I:477:SER:OG	47:I:481:ASN:O	2.32	0.45
9:ID:306:ARG:HE	9:ID:306:ARG:HB2	1.53	0.45
9:ID:321:MET:HE1	9:ID:363:MET:HB2	1.98	0.45
9:IF:210:ILE:HD11	9:IF:298:ASN:HA	1.99	0.45
9:IH:246:LEU:HD21	8:II:179:THR:HG21	1.99	0.45
9:IJ:10:GLY:O	9:IJ:14:ASN:ND2	2.49	0.45
9:IJ:100:ASN:HD22	9:IJ:103:LYS:HG3	1.81	0.45
8:IK:90:GLU:HB2	8:IK:121:ARG:NH1	2.32	0.45
8:IK:274:PRO:HG3	8:IK:374:ALA:HA	1.98	0.45
8:JG:3:GLU:H	8:JG:3:GLU:HG2	1.42	0.45
8:JG:138:PHE:HZ	8:JG:235:VAL:HG21	1.82	0.45
8:JI:195:LEU:HD11	8:JI:428:LEU:HD22	1.97	0.45
8:JM:341:ILE:HD12	8:JM:341:ILE:HA	1.85	0.45
9:JN:354:CYS:SG	9:JN:355:ASP:N	2.90	0.45
9:KB:61:PRO:HD3	9:KB:84:ILE:HG22	1.99	0.45
9:LB:256:ASN:HD21	8:LC:182:VAL:HG22	1.82	0.45
9:LH:213:ARG:NH1	9:LH:297:LYS:HE3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:ME:327:ASP:OD1	8:ME:327:ASP:N	2.47	0.45
8:MM:392:ASP:OD2	8:MM:422:ARG:NE	2.50	0.45
9:MN:213:ARG:O	9:MN:216:LYS:NZ	2.49	0.45
9:MN:286:VAL:HB	9:MN:325:GLU:HG2	1.98	0.45
8:NC:119:LEU:HD11	8:NC:156:ARG:HB3	1.98	0.45
8:NC:151:SER:HA	8:NC:154:MET:HE3	1.98	0.45
8:NC:313:MET:HB2	8:NC:380:ASN:HB3	1.99	0.45
9:ND:161:ASP:OD1	9:ND:161:ASP:N	2.47	0.45
8:NI:71:GLU:HB3	8:NI:98:ASP:HB2	1.98	0.45
9:NL:257:MET:HE2	9:NL:257:MET:HB3	1.79	0.45
9:OB:319:GLY:HA3	9:OB:363:MET:HB2	1.98	0.45
9:OB:322:SER:HA	8:OC:223:THR:HG22	1.99	0.45
8:OC:172:TYR:HE2	8:OC:387:ALA:HB1	1.82	0.45
9:OF:31:ASP:OD1	9:OF:31:ASP:N	2.49	0.45
9:OH:152:ILE:HG13	9:OH:195:ASN:ND2	2.31	0.45
9:OH:268:PRO:O	9:OH:300:MET:HG2	2.17	0.45
9:OH:330:MET:HB3	9:OH:349:VAL:HG21	1.98	0.45
9:OJ:326:VAL:O	9:OJ:330:MET:HG2	2.17	0.45
8:OK:273:ALA:HB1	8:OK:291:ILE:HG12	1.99	0.45
9:OL:20:PHE:CD1	9:OL:233:MET:HE2	2.52	0.45
9:OL:122:LYS:NZ	9:PL:291:GLN:HB3	2.32	0.45
9:OL:156:ARG:HH21	9:OL:164:MET:HG3	1.81	0.45
52:P:114:HIS:HB2	59:c:200:LYS:NZ	2.31	0.45
8:PA:231:ILE:O	8:PA:235:VAL:HG13	2.17	0.45
8:PC:200:CYS:SG	8:PC:256:GLN:NE2	2.89	0.45
9:PD:101:TRP:CD1	9:PD:146:GLY:HA2	2.52	0.45
8:PG:103:TYR:CE1	8:PG:148:GLY:HA2	2.52	0.45
8:PI:192:HIS:NE2	8:PI:420:GLU:OE2	2.49	0.45
9:PJ:68:LEU:HD12	9:PJ:97:ALA:HB2	1.98	0.45
8:PM:70:LEU:HD23	8:PM:145:THR:OG1	2.17	0.45
8:QG:254:GLU:OE2	8:QG:352:LYS:NZ	2.43	0.45
8:QI:71:GLU:HA	8:QI:72:PRO:HD3	1.80	0.45
8:QI:298:PRO:HA	8:QI:301:GLN:HB2	1.98	0.45
9:QJ:49:VAL:HG21	9:QJ:240:LEU:HD22	1.98	0.45
8:QM:352:LYS:HD3	8:QM:352:LYS:HA	1.73	0.45
8:RC:115:VAL:HA	8:RC:118:VAL:HG22	1.98	0.45
8:RG:56:THR:HG22	8:RG:60:LYS:H	1.80	0.45
8:RI:56:THR:HA	8:SI:285:GLN:HE21	1.81	0.45
9:RJ:49:VAL:C	9:RJ:62:ARG:HH22	2.25	0.45
8:RM:320:ARG:HH22	8:RM:358:GLN:HG3	1.82	0.45
9:SB:217:LEU:HD13	9:SB:220:PRO:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SF:7:LEU:HB3	9:SF:135:LEU:HD13	1.98	0.45
9:SH:242:PHE:CG	9:SH:356:ILE:HD12	2.52	0.45
8:TE:8:HIS:CE1	8:TE:138:PHE:HD2	2.34	0.45
9:TF:109:GLY:O	9:TF:113:VAL:HB	2.16	0.45
8:TG:93:ILE:HD12	8:TG:117:LEU:HD21	1.99	0.45
9:TH:128:ASP:OD1	9:TH:128:ASP:N	2.47	0.45
8:UE:177:VAL:HG21	8:UE:207:GLU:HB2	1.98	0.45
8:UE:274:PRO:HG3	8:UE:374:ALA:HA	1.97	0.45
8:UE:399:TYR:HE2	8:UE:418:PHE:HB3	1.82	0.45
8:UG:312:TYR:HE1	8:UG:379:SER:OG	1.99	0.45
9:UJ:19:LYS:HD2	9:UJ:19:LYS:HA	1.70	0.45
9:UJ:113:VAL:HA	9:UJ:116:VAL:HG12	1.99	0.45
9:VF:208:TYR:CE1	9:VF:225:LEU:HD11	2.52	0.45
8:VI:352:LYS:NZ	8:VI:353:VAL:O	2.50	0.45
9:VL:415:MET:HE3	9:VL:415:MET:HB3	1.76	0.45
8:VM:138:PHE:CE1	8:VM:169:PHE:HD2	2.35	0.45
8:WC:90:GLU:O	8:WC:121:ARG:NE	2.36	0.45
8:WC:188:ILE:HD13	8:WC:425:LEU:HD22	1.97	0.45
9:WD:1:MET:N	9:WD:3:GLU:OE2	2.50	0.45
9:WD:153:SER:HA	9:WD:195:ASN:HD22	1.82	0.45
9:WF:296:ALA:HB2	9:WF:306:ARG:HH12	1.81	0.45
9:WN:145:SER:O	9:WN:149:THR:HB	2.16	0.45
9:WN:362:LYS:HG3	9:WN:363:MET:HG2	1.97	0.45
47:X:253:ASP:OD1	47:X:253:ASP:N	2.50	0.45
56:XG:81:LYS:HB3	56:XG:161:ARG:HB2	1.97	0.45
56:XI:29:VAL:HG11	57:YI:206:ASN:HD21	1.81	0.45
47:Y:34:ARG:HA	47:Y:34:ARG:HD2	1.66	0.45
57:YG:113:PHE:HA	57:YG:131:ILE:HD11	1.99	0.45
58:Z:119:THR:O	58:Z:123:GLN:HG2	2.17	0.45
59:b:350:ALA:O	59:b:353:GLU:HG3	2.17	0.45
59:b:508:ARG:HG3	59:b:511:ARG:NH2	2.32	0.45
59:c:332:LYS:NZ	59:c:336:GLN:OE1	2.47	0.45
59:d:463:GLU:O	59:d:467:THR:HG22	2.17	0.45
60:g:210:ILE:O	60:g:228:THR:OG1	2.28	0.45
60:g:385:PHE:HE1	60:g:392:ILE:HD12	1.81	0.45
3:x:174:SER:HB3	3:x:177:TYR:HB2	1.97	0.45
2:0a:49:GLN:NE2	2:0a:53:TYR:OH	2.41	0.45
6:A0:39:LEU:HD11	8:HK:163:LYS:HB2	1.99	0.45
7:A1:144:LEU:HD12	8:PE:215:ARG:CZ	2.47	0.45
7:A8:163:ILE:H	9:TJ:337:ASN:ND2	2.14	0.45
9:AB:36:TYR:CD1	9:AB:44:LEU:HD13	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AB:161:ASP:C	9:AB:162:ARG:HE	2.25	0.45
9:AB:404:ASP:OD2	9:AB:405:GLU:N	2.50	0.45
8:AE:285:GLN:OE1	8:AE:285:GLN:N	2.45	0.45
8:AI:143:GLY:O	8:AI:186:ASN:ND2	2.49	0.45
8:AK:234:ILE:HD13	8:AK:270:ALA:HB1	1.99	0.45
9:AL:217:LEU:HD23	9:AL:217:LEU:HA	1.85	0.45
13:Aa:87:ARG:NH2	13:Aa:177:CYS:SG	2.82	0.45
13:Aa:489:LYS:HG3	13:Aa:492:GLU:OE2	2.16	0.45
14:Al:30:ARG:HA	14:Al:30:ARG:HD2	1.68	0.45
18:B6:106:LYS:HE3	18:B6:106:LYS:HB2	1.75	0.45
17:B9:34:LEU:HD22	8:MI:304:LYS:HD2	1.99	0.45
8:BA:8:HIS:CE1	8:BA:21:TRP:HE1	2.32	0.45
9:BD:58:LYS:HE2	9:CD:281:TYR:CE1	2.52	0.45
9:BF:161:ASP:OD1	9:BF:161:ASP:N	2.42	0.45
8:BG:24:TYR:HE1	8:BG:236:SER:HB2	1.81	0.45
8:BK:206:ASN:HD21	67:BK:501:GTP:HN22	1.64	0.45
9:BL:357:PRO:HD2	14:Bd:271:TRP:CD1	2.52	0.45
6:BN:209:PRO:HG2	8:IO:211:ASP:HB2	1.98	0.45
19:BP:405:VAL:HG13	39:Dk:65:HIS:HB3	1.98	0.45
19:BQ:319:GLU:OE2	19:BQ:322:ARG:NH1	2.50	0.45
19:BR:317:ASN:HA	19:BR:320:ASP:HB2	1.98	0.45
23:Bg:112:ASP:OD1	23:Bg:112:ASP:N	2.45	0.45
25:Bn:240:UNK:O	9:QL:320:ARG:NH2	2.50	0.45
5:C:128:PHE:CD1	59:b:337:MET:HG3	2.52	0.45
9:CB:311:LEU:HD23	9:CB:311:LEU:HA	1.70	0.45
8:CE:195:LEU:HD21	8:CE:428:LEU:HD22	1.97	0.45
9:CL:106:TYR:HD2	9:CL:403:MET:HE2	1.81	0.45
30:CW:335:THR:O	30:CW:339:SER:OG	2.26	0.45
2:CY:56:HIS:HB3	2:CY:57:HIS:ND1	2.32	0.45
2:CZ:128:CYS:SG	8:OE:85:GLN:NE2	2.90	0.45
2:Ca:92:PRO:HA	2:Ca:95:ASN:HB2	1.99	0.45
2:Cb:8:SER:HB3	2:Cb:80:LEU:HD22	1.99	0.45
2:Cf:146:LEU:O	2:Cf:150:LYS:HG3	2.16	0.45
2:Cg:156:SER:OG	2:Cg:157:GLU:OE1	2.34	0.45
2:Ck:126:LEU:HD23	2:Ck:131:ALA:HA	1.99	0.45
33:Cr:39:ARG:NH1	33:Ct:292:GLU:OE2	2.50	0.45
33:Cu:355:LYS:NZ	33:Cw:41:GLU:HG3	2.31	0.45
29:D2:367:THR:O	29:D2:371:ILE:HG23	2.17	0.45
8:DC:306:ASP:OD1	8:DC:306:ASP:N	2.50	0.45
9:DD:407:GLU:HA	9:DD:410:GLU:OE1	2.17	0.45
9:DF:347:ASN:O	8:DG:181:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DG:2:ARG:NE	8:DG:242:LEU:O	2.40	0.45
9:DH:252:LYS:HA	8:DI:100:ALA:HB1	1.98	0.45
9:DH:314:ALA:HB3	9:DH:368:ILE:H	1.81	0.45
9:DN:21:TRP:O	9:DN:25:SER:OG	2.23	0.45
28:DO:93:ARG:NH2	44:EV:41:LEU:O	2.50	0.45
29:DU:370:GLU:O	29:DU:374:THR:OG1	2.30	0.45
29:DX:184:ALA:HB2	29:DX:232:MET:HE3	1.98	0.45
36:Dd:177:ARG:HH22	8:WM:249:ASN:HD21	1.65	0.45
39:Dk:122:THR:HG22	39:Dk:126:HIS:HE1	1.82	0.45
9:EF:318:ARG:NH2	9:EF:356:ILE:O	2.50	0.45
44:ET:149:PHE:HB2	44:ET:183:ILE:HG21	1.99	0.45
28:F5:403:ARG:NH2	28:F5:414:ASP:OD2	2.42	0.45
9:FB:375:GLN:NE2	9:FB:426:GLN:OE1	2.49	0.45
8:FC:121:ARG:HD2	8:FC:121:ARG:HA	1.81	0.45
9:FF:330:MET:HA	9:FF:333:VAL:HG22	1.99	0.45
9:FH:347:ASN:HB3	8:FI:181:VAL:HG23	1.99	0.45
8:FI:3:GLU:N	8:FI:131:GLY:O	2.44	0.45
8:FI:164:LYS:HD3	8:FI:164:LYS:HA	1.58	0.45
9:FL:4:ILE:HB	9:FL:50:TYR:HE1	1.82	0.45
9:FN:284:LEU:H	9:FN:288:GLU:CD	2.24	0.45
45:G:195:LEU:HD13	45:G:204:TYR:HB3	1.98	0.45
8:GC:221:ARG:HB2	8:GC:221:ARG:HH11	1.82	0.45
9:GD:214:THR:OG1	9:GD:297:LYS:NZ	2.40	0.45
8:GE:273:ALA:HB2	8:GE:295:CYS:HB3	1.99	0.45
8:GG:132:LEU:O	8:GG:164:LYS:NZ	2.50	0.45
8:GG:274:PRO:HG3	8:GG:374:ALA:HA	1.99	0.45
8:GG:320:ARG:HB2	8:GG:374:ALA:HB3	1.97	0.45
9:GH:10:GLY:O	9:GH:14:ASN:ND2	2.50	0.45
8:GI:107:HIS:CE1	8:GI:152:LEU:HB2	2.52	0.45
9:GL:415:MET:HE3	9:GL:415:MET:HB3	1.85	0.45
8:HE:216:ASN:HD22	8:HE:275:VAL:HG13	1.82	0.45
9:HF:173:PRO:HD2	9:HF:205:GLU:HG3	1.99	0.45
8:HG:371:VAL:O	64:ke:91:ARG:NH2	2.42	0.45
8:HI:212:ILE:HD11	8:HI:300:ASN:HA	1.97	0.45
9:IF:252:LYS:HG3	8:IG:100:ALA:HA	1.98	0.45
8:IK:231:ILE:O	8:IK:235:VAL:HG23	2.16	0.45
9:JB:152:ILE:HG12	9:JB:164:MET:HE3	1.98	0.45
8:JG:189:LEU:HD11	8:JG:418:PHE:HE1	1.81	0.45
8:JG:195:LEU:HD21	8:JG:428:LEU:HD13	1.98	0.45
9:KJ:107:THR:OG1	9:KJ:108:GLU:N	2.49	0.45
9:MB:323:MET:HE3	9:MB:323:MET:HB3	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MD:173:PRO:HB3	9:MD:380:ARG:HD2	1.99	0.45
51:N:25:MET:HE2	51:N:90:GLY:HA2	1.99	0.45
9:NF:105:HIS:CD2	9:NF:150:LEU:HB2	2.52	0.45
8:NI:22:GLU:HG2	8:NI:83:TYR:CZ	2.52	0.45
8:OA:301:GLN:N	8:OA:301:GLN:OE1	2.50	0.45
9:OB:147:MET:HB3	9:OB:147:MET:HE2	1.66	0.45
9:OH:29:GLY:O	9:OH:37:HIS:N	2.46	0.45
8:PA:79:ARG:HG2	8:PA:79:ARG:H	1.68	0.45
9:PF:131:GLN:HE22	9:PF:249:ASP:CG	2.23	0.45
9:PF:423:GLN:O	9:PF:423:GLN:NE2	2.50	0.45
9:PL:228:LEU:HD21	9:PL:273:LEU:HD21	1.97	0.45
8:QC:335:ILE:HA	8:QC:338:LYS:HZ3	1.82	0.45
8:QE:211:ASP:OD2	8:QE:211:ASP:N	2.43	0.45
9:QF:73:MET:HA	9:QF:76:VAL:HB	1.99	0.45
9:QJ:379:LYS:HD3	9:QJ:419:VAL:HG11	1.98	0.45
9:QL:205:GLU:HA	9:QL:208:TYR:HB2	1.99	0.45
9:QL:347:ASN:ND2	8:QM:180:ALA:O	2.43	0.45
8:QM:15:GLN:O	8:QM:228:ASN:ND2	2.50	0.45
8:QM:228:ASN:ND2	67:QM:501:GTP:O6	2.46	0.45
8:RA:414:GLU:CD	8:RA:416:GLY:H	2.24	0.45
9:RH:113:VAL:HB	9:RH:154:LYS:HE3	1.99	0.45
8:RK:242:LEU:HD11	8:RK:252:LEU:HD11	1.97	0.45
54:S:201:LYS:HE2	54:S:201:LYS:HB3	1.81	0.45
9:SD:178:THR:HB	9:SD:181:GLU:HG3	1.98	0.45
9:SF:83:GLN:OE1	9:TF:281:TYR:OH	2.32	0.45
9:SF:113:VAL:HA	9:SF:116:VAL:HG22	1.98	0.45
8:SG:413:MET:HB2	8:SG:417:GLU:HB2	1.99	0.45
8:SG:438:ASP:OD1	8:SG:438:ASP:N	2.48	0.45
8:SI:320:ARG:N	8:SI:374:ALA:O	2.49	0.45
9:SL:5:VAL:HG21	9:SL:124:ALA:HA	1.98	0.45
8:TC:108:TYR:CZ	8:TC:413:MET:HB3	2.52	0.45
9:TD:189:VAL:HG12	9:TD:415:MET:HE1	1.99	0.45
9:TD:376:GLU:HA	9:TD:379:LYS:HG2	1.99	0.45
8:TG:430:LYS:HD3	8:TG:430:LYS:HA	1.66	0.45
9:TH:424:GLN:HG3	9:TH:425:TYR:CD2	2.52	0.45
9:TJ:285:THR:HG23	9:TJ:287:PRO:HD2	1.98	0.45
8:TM:274:PRO:HG3	8:TM:374:ALA:HA	1.99	0.45
8:UE:55:GLU:OE2	8:UE:61:HIS:NE2	2.50	0.45
8:UK:370:LYS:HB2	8:UK:370:LYS:HE3	1.67	0.45
9:VD:316:VAL:HA	9:VD:352:ALA:HB3	1.98	0.45
9:VF:45:GLU:OE2	9:VF:45:GLU:N	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VF:68:LEU:HG	9:VF:143:THR:OG1	2.17	0.45
9:VF:248:ALA:HA	9:VF:252:LYS:HD3	1.97	0.45
9:VF:314:ALA:HA	9:VF:350:LYS:HB3	1.99	0.45
8:VG:388:TRP:HB3	8:VG:425:LEU:HD11	1.98	0.45
8:VK:175:PRO:O	8:VK:394:LYS:NZ	2.50	0.45
9:WD:8:GLN:HE21	9:WD:17:GLY:HA3	1.81	0.45
9:WH:299:MET:HE1	9:WH:305:PRO:HD3	1.99	0.45
9:WJ:242:PHE:CG	9:WJ:356:ILE:HD13	2.51	0.45
8:WK:121:ARG:HA	8:WK:121:ARG:HD2	1.72	0.45
47:X:448:MET:HE2	47:X:448:MET:HB2	1.88	0.45
56:XG:76:LEU:HD21	56:XG:78:MET:HE3	1.99	0.45
57:YJ:229:LEU:HD23	57:YJ:229:LEU:HA	1.82	0.45
60:e:511:VAL:HG23	60:e:522:THR:HG22	1.97	0.45
60:e:551:VAL:HA	60:e:567:GLY:HA2	1.99	0.45
60:g:518:PHE:CE2	46:o:201:ARG:HB3	2.52	0.45
61:h:98:MET:HE3	61:h:98:MET:HB3	1.69	0.45
62:i:12:ILE:HD12	62:i:12:ILE:HA	1.58	0.45
63:l:92:HIS:O	63:l:96:MET:HG2	2.16	0.45
46:o:533:GLU:O	46:o:537:LYS:HD2	2.16	0.45
46:o:545:ARG:NH1	46:o:548:GLN:HB3	2.31	0.45
2:0E:111:LEU:HD13	2:0E:141:LEU:HD13	1.98	0.45
2:0e:102:LYS:HE2	2:0e:102:LYS:HB2	1.82	0.45
7:A2:19:ILE:HG13	7:A2:20:MET:H	1.81	0.45
7:A4:219:GLY:O	8:RI:340:THR:OG1	2.28	0.45
7:A9:68:PRO:HG2	8:TC:341:ILE:HD11	1.99	0.45
9:AH:24:ILE:HA	9:AH:27:GLU:HB2	1.98	0.45
8:AI:103:TYR:CE1	8:AI:148:GLY:HA2	2.52	0.45
8:AI:263:PRO:HD2	56:XI:116:PRO:HG3	1.97	0.45
10:AQ:67:THR:OG1	8:LK:156:ARG:NH1	2.50	0.45
11:AT:158:ARG:HH22	11:AU:490:ILE:HD11	1.82	0.45
11:AU:502:HIS:NE2	8:GG:27:GLU:O	2.39	0.45
13:Aa:442:TYR:HD1	13:Aa:449:ILE:HG12	1.82	0.45
13:Ab:140:VAL:HA	13:Ab:153:VAL:HG12	1.99	0.45
13:Ab:280:GLN:N	13:Ab:283:GLN:HG3	2.32	0.45
13:Ab:630:TYR:CE1	47:I:429:PRO:HD3	2.52	0.45
13:Ac:240:PHE:HE2	13:Ac:247:GLU:HG3	1.82	0.45
13:Ad:546:ARG:HA	13:Ad:549:LYS:HD2	1.99	0.45
13:Ad:576:THR:OG1	13:Ad:577:VAL:N	2.50	0.45
14:An:33:ASP:HA	8:EM:219:ILE:HD12	1.99	0.45
14:Ao:65:ILE:HD11	33:Cv:311:LEU:HD23	1.97	0.45
16:At:272:TRP:CZ2	9:FH:291:GLN:HG2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BC:269:LEU:HD13	8:BC:301:GLN:OE1	2.16	0.45
9:BH:137:HIS:CE1	9:BH:168:SER:HG	2.35	0.45
8:BM:88:HIS:CE1	8:BM:90:GLU:HB3	2.52	0.45
8:BM:152:LEU:O	8:BM:156:ARG:HG2	2.15	0.45
29:C1:463:ASN:N	29:DS:383:ARG:HH12	2.15	0.45
8:CA:240:ALA:HB1	8:CA:356:ASN:HD22	1.81	0.45
8:CC:262:TYR:HB2	8:CC:265:ILE:HG22	1.98	0.45
8:CE:254:GLU:N	8:CE:254:GLU:OE1	2.50	0.45
9:CF:213:ARG:NH1	9:CF:213:ARG:HA	2.32	0.45
8:CM:352:LYS:HD3	8:CM:352:LYS:HA	1.73	0.45
14:CN:221:GLY:O	8:EC:79:ARG:NH1	2.50	0.45
2:Ch:150:LYS:HG3	2:Ch:151:GLU:OE1	2.16	0.45
33:Cw:134:GLU:O	33:Cw:138:HIS:ND1	2.27	0.45
29:D2:137:MET:O	29:D2:141:THR:HG23	2.17	0.45
8:DA:329:ASN:HD22	9:DB:208:TYR:HE1	1.65	0.45
9:DH:83:GLN:O	9:EH:281:TYR:OH	2.21	0.45
8:DI:88:HIS:HE1	8:DI:90:GLU:HB2	1.82	0.45
8:DI:234:ILE:HG22	8:DI:272:TYR:HD2	1.82	0.45
9:DJ:299:MET:SD	9:DJ:299:MET:N	2.90	0.45
29:DQ:346:PHE:HE2	29:DQ:472:CYS:HB2	1.80	0.45
29:DU:185:GLU:OE2	29:DU:188:ARG:NH1	2.40	0.45
29:DX:444:LEU:O	29:DX:448:VAL:HG23	2.17	0.45
43:E1:142:ARG:NH1	44:ES:209:GLU:OE1	2.50	0.45
29:EA:397:THR:HG21	29:EP:280:ILE:HG23	1.99	0.45
8:EE:35:GLN:HG3	8:EE:60:LYS:HE3	1.99	0.45
8:EG:11:GLN:NE2	8:EG:15:GLN:OE1	2.45	0.45
9:EJ:135:LEU:HB3	9:EJ:166:THR:HG22	1.98	0.45
29:EP:133:LEU:HD12	29:EP:136:GLN:HE22	1.82	0.45
29:EQ:384:SER:O	29:EQ:388:LYS:HG2	2.16	0.45
44:EX:158:CYS:HA	44:EX:161:ARG:NH1	2.32	0.45
8:FC:188:ILE:HG13	8:FC:395:LEU:HD22	1.98	0.45
9:FF:181:GLU:HG2	9:FF:182:PRO:HD3	1.99	0.45
9:FJ:5:VAL:HG21	9:FJ:124:ALA:HB2	1.99	0.45
45:G:218:LEU:HD21	45:G:221:PRO:HG3	1.99	0.45
8:GC:152:LEU:O	8:GC:156:ARG:HG2	2.17	0.45
8:GC:231:ILE:H	8:GC:231:ILE:HD12	1.80	0.45
9:GF:60:VAL:HG11	9:GF:86:ARG:NH1	2.31	0.45
8:GG:1:MET:SD	8:GG:1:MET:N	2.81	0.45
8:GI:188:ILE:HG12	8:GI:425:LEU:HD22	1.99	0.45
9:HD:282:ARG:NH2	9:HD:292:GLN:OE1	2.50	0.45
9:HJ:253:LEU:HB3	9:HJ:257:MET:HE2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HL:54:ALA:HA	9:IL:283:ALA:HB2	1.99	0.45
8:IE:345:ASP:OD2	8:IE:346:TRP:N	2.50	0.45
9:IF:421:GLU:O	9:IF:424:GLN:HG3	2.17	0.45
8:II:188:ILE:HD11	8:II:425:LEU:HD13	1.99	0.45
8:IM:250:VAL:HG13	8:IM:254:GLU:HB2	1.98	0.45
8:IO:152:LEU:HA	8:IO:155:GLU:HG2	1.99	0.45
8:IO:210:TYR:CE1	8:IO:227:LEU:HD11	2.52	0.45
8:JC:153:LEU:HD23	8:JC:153:LEU:HA	1.85	0.45
8:JC:288:VAL:HA	8:JC:291:ILE:HG22	1.99	0.45
8:JG:417:GLU:N	8:JG:417:GLU:OE1	2.49	0.45
9:JJ:3:GLU:OE2	9:JJ:128:ASP:N	2.50	0.45
9:JL:404:ASP:OD1	9:JL:404:ASP:N	2.40	0.45
9:JL:417:ASP:O	9:JL:421:GLU:HG3	2.17	0.45
9:KB:249:ASP:OD1	9:KB:249:ASP:N	2.39	0.45
9:KH:247:ASN:O	9:KH:252:LYS:NZ	2.37	0.45
9:KL:139:LEU:HD12	9:KL:170:VAL:HG12	1.98	0.45
9:LB:107:THR:HG21	9:LB:401:GLU:HB2	1.99	0.45
9:LF:73:MET:HE2	9:LF:92:PHE:HB3	1.98	0.45
8:LG:345:ASP:OD2	8:LG:346:TRP:N	2.50	0.45
8:ME:435:VAL:O	9:MF:391:ARG:NH2	2.50	0.45
9:MJ:324:LYS:HA	9:MJ:324:LYS:HE3	1.98	0.45
9:N0:126:SER:O	9:N0:126:SER:OG	2.33	0.45
8:NC:217:LEU:HB3	8:NC:219:ILE:HG12	1.98	0.45
8:NE:239:THR:OG1	8:NE:243:ARG:NH1	2.50	0.45
9:NH:5:VAL:HG23	9:NH:130:LEU:HD11	1.97	0.45
8:NI:406:HIS:CD2	8:NI:407:TRP:HD1	2.34	0.45
8:NK:172:TYR:OH	8:NK:388:TRP:HA	2.17	0.45
9:O0:101:TRP:HE3	9:O0:146:GLY:HA2	1.82	0.45
8:OC:282:TYR:CE2	54:R:168:MET:HE1	2.52	0.45
9:OF:136:THR:HG22	9:OF:167:PHE:HB2	1.99	0.45
9:OF:196:THR:OG1	9:OF:264:HIS:NE2	2.49	0.45
9:OJ:257:MET:HE2	9:OJ:312:THR:HB	1.98	0.45
9:OJ:346:PRO:HG2	8:OK:394:LYS:HG2	1.98	0.45
8:OK:352:LYS:HD2	9:OL:179:VAL:HG22	1.98	0.45
9:PB:215:LEU:HB3	9:PB:217:LEU:HD13	1.99	0.45
9:PD:67:ASP:HB3	9:PD:73:MET:HE1	1.98	0.45
9:PH:156:ARG:NH1	9:PH:160:PRO:O	2.50	0.45
8:PK:9:VAL:HA	8:PK:68:VAL:HB	1.98	0.45
9:PL:304:ASP:OD1	9:PL:304:ASP:N	2.27	0.45
8:QC:88:HIS:ND1	8:QC:90:GLU:HB2	2.31	0.45
8:QC:362:VAL:HG21	8:QC:370:LYS:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QD:296:ALA:HA	9:QD:299:MET:HE1	1.99	0.45
8:QE:144:GLY:N	67:QE:501:GTP:O3G	2.47	0.45
8:QE:170:ALA:O	8:QE:204:VAL:HG22	2.17	0.45
8:QE:310:GLY:HA3	8:QE:383:ALA:HB2	1.99	0.45
8:QG:304:LYS:HE3	8:QG:304:LYS:HB3	1.77	0.45
9:QL:309:ARG:NH1	9:QL:339:SER:O	2.50	0.45
9:RB:347:ASN:ND2	8:RC:176:GLN:O	2.50	0.45
9:RD:262:ARG:HE	9:RD:418:LEU:HD21	1.81	0.45
9:RJ:238:THR:HA	9:RJ:241:ARG:HE	1.81	0.45
8:SC:50:ASN:O	8:SC:64:ARG:NH2	2.50	0.45
8:SC:172:TYR:N	8:SC:204:VAL:O	2.44	0.45
8:SC:370:LYS:HA	8:SC:370:LYS:HD2	1.78	0.45
9:SD:293:MET:HE2	9:SD:293:MET:HA	1.99	0.45
8:SE:223:THR:HG22	8:SE:224:TYR:H	1.81	0.45
9:SF:314:ALA:HB3	9:SF:368:ILE:HB	1.98	0.45
8:SG:422:ARG:HD2	8:SG:422:ARG:HA	1.59	0.45
9:SH:136:THR:HG23	9:SH:167:PHE:HB2	1.99	0.45
9:SH:311:LEU:HD12	9:SH:342:VAL:HG21	1.99	0.45
8:SI:4:CYS:HB2	8:SI:52:PHE:HE1	1.82	0.45
8:SI:319:TYR:CE1	8:SI:328:VAL:HG12	2.52	0.45
8:SK:349:THR:HB	9:SL:176:SER:HB2	1.99	0.45
8:TE:123:ARG:NH2	8:TE:127:ASP:OD2	2.41	0.45
9:TH:134:GLN:HG2	9:TH:167:PHE:HE1	1.82	0.45
9:TH:178:THR:HB	9:TH:181:GLU:HG3	1.97	0.45
9:TL:3:GLU:OE1	9:TL:62:ARG:NH2	2.50	0.45
8:TM:310:GLY:HA3	8:TM:383:ALA:HB2	1.99	0.45
9:UB:1:MET:HE1	8:UC:96:LYS:HA	1.99	0.45
8:UG:109:THR:OG1	8:UG:110:ILE:N	2.50	0.45
9:UJ:255:VAL:HA	8:UK:407:TRP:CD1	2.52	0.45
8:UK:316:CYS:HA	8:UK:352:LYS:HB2	1.98	0.45
9:UL:324:LYS:O	9:UL:328:GLU:HB3	2.17	0.45
9:UN:130:LEU:HB3	9:UN:162:ARG:HH21	1.81	0.45
8:VG:273:ALA:HB1	8:VG:291:ILE:HB	1.99	0.45
8:VI:172:TYR:N	8:VI:204:VAL:O	2.43	0.45
8:VM:186:ASN:HA	8:VM:189:LEU:HB2	1.99	0.45
9:VN:125:GLU:OE2	9:VN:159:TYR:OH	2.27	0.45
55:W:86:MET:HA	55:W:89:GLU:HG2	1.99	0.45
9:WD:257:MET:HE3	9:WD:314:ALA:HB2	1.98	0.45
9:WF:379:LYS:CE	9:WF:419:VAL:HG13	2.45	0.45
8:WI:275:VAL:HG23	8:WI:368:LEU:HD11	1.98	0.45
8:WK:349:THR:OG1	8:WK:350:GLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WL:207:LEU:HB3	9:WL:225:LEU:HD22	1.98	0.45
9:WL:304:ASP:CG	9:WL:306:ARG:HE	2.25	0.45
9:WN:304:ASP:OD1	9:WN:304:ASP:N	2.50	0.45
56:XG:79:ILE:HG23	56:XG:131:GLN:HG3	1.99	0.45
56:XI:2:PHE:O	56:XI:7:GLN:NE2	2.50	0.45
59:c:168:LYS:HE3	59:c:168:LYS:HB3	1.79	0.45
59:c:365:LYS:HD3	59:c:365:LYS:HA	1.70	0.45
60:f:17:LEU:HD22	60:f:620:PRO:HB3	1.99	0.45
63:m:49:THR:HB	63:m:101:THR:HG23	1.98	0.45
2:0Y:26:PHE:O	2:0Y:30:LEU:HG	2.16	0.45
2:0a:127:SER:O	8:QM:85:GLN:NE2	2.50	0.45
3:1:97:LEU:HD12	3:1:100:ALA:HB3	1.99	0.45
4:3:1402:GLN:HB3	10:AP:38:TYR:CE1	2.52	0.45
7:A1:178:LYS:HA	7:A1:178:LYS:HD3	1.81	0.45
7:A7:37:GLY:HA2	9:SJ:331:LEU:HD11	1.99	0.45
9:AD:70:PRO:HB3	9:AD:92:PHE:CD1	2.52	0.45
9:AD:257:MET:SD	9:AD:314:ALA:HB2	2.57	0.45
8:AI:7:ILE:HG23	8:AI:66:VAL:HG13	1.99	0.45
8:AM:388:TRP:CD1	8:AM:425:LEU:HD21	2.52	0.45
12:AW:78:TYR:HB3	12:AW:83:THR:HG23	1.99	0.45
13:Ab:212:ASP:OD1	13:Ab:212:ASP:N	2.49	0.45
13:Ab:636:LYS:HD3	13:Ab:636:LYS:HA	1.80	0.45
7:Au:235:VAL:HB	9:GL:336:LYS:HE2	1.98	0.45
7:Av:161:PHE:H	9:OJ:336:LYS:HZ1	1.64	0.45
7:Av:246:MET:HB2	9:OF:213:ARG:HH12	1.82	0.45
17:B4:209:ARG:NH1	44:ET:284:CYS:SG	2.91	0.45
8:BC:313:MET:HG2	8:BC:344:VAL:HG21	1.99	0.45
9:BF:191:GLN:N	9:BF:191:GLN:OE1	2.49	0.45
8:BG:336:LYS:HE2	8:BG:336:LYS:HB2	1.80	0.45
8:BM:121:ARG:HH12	8:BM:124:LYS:HD2	1.81	0.45
21:BV:169:GLU:OE1	30:CW:409:TYR:OH	2.28	0.45
14:Bc:79:ARG:HE	14:Bc:79:ARG:HB3	1.64	0.45
28:C2:84:VAL:HG11	28:C2:91:PHE:HE1	1.82	0.45
28:C3:239:LYS:HE3	28:C3:239:LYS:HB2	1.82	0.45
28:C8:131:LYS:HA	28:C8:131:LYS:HD3	1.81	0.45
9:CB:229:VAL:HG22	9:CB:233:MET:HE2	1.98	0.45
9:CB:319:GLY:HA2	9:CB:357:PRO:HD3	1.98	0.45
8:CE:209:ILE:HB	8:CE:227:LEU:HD22	1.98	0.45
9:CH:202:ILE:HD12	9:CH:202:ILE:HA	1.77	0.45
8:CK:26:LEU:HD11	8:CK:364:PRO:HD3	1.97	0.45
2:CX:12:VAL:CG1	2:CX:76:GLU:HG3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:34:ARG:HH12	2:CX:40:LYS:HA	1.81	0.45
2:CZ:104:LEU:HD12	2:CZ:104:LEU:HA	1.82	0.45
2:Cc:24:PHE:CE2	8:OI:80:THR:HB	2.51	0.45
2:Ci:126:LEU:HD22	2:Ci:131:ALA:HA	1.98	0.45
2:Ck:58:CYS:O	2:Ck:64:ARG:NH1	2.50	0.45
32:Cm:216:ASP:N	32:Cm:216:ASP:OD1	2.49	0.45
33:Ct:326:ASN:ND2	44:EV:136:GLN:HE22	2.15	0.45
29:D1:149:LEU:HD23	29:D1:149:LEU:HA	1.79	0.45
29:D4:131:ASP:OD1	29:D4:135:ARG:NH2	2.39	0.45
29:D5:145:LEU:HD23	29:D5:145:LEU:HA	1.72	0.45
8:DA:260:VAL:HG13	9:DB:397:TRP:HZ2	1.82	0.45
9:DB:312:THR:OG1	9:DB:370:ASN:OD1	2.31	0.45
8:DI:346:TRP:HE1	9:DJ:393:ALA:HB2	1.82	0.45
8:DK:107:HIS:CD2	8:DK:152:LEU:HB2	2.52	0.45
29:DV:472:CYS:O	29:DV:475:MET:HG2	2.16	0.45
39:Dl:79:SER:HB3	39:Dl:87:ARG:HH21	1.81	0.45
42:E:721:PRO:HG2	42:E:726:LYS:HZ2	1.82	0.45
43:E3:111:GLN:HA	43:E3:114:ARG:HG2	1.98	0.45
29:EA:463:ASN:O	29:EA:467:ILE:HG23	2.17	0.45
9:ED:318:ARG:NH1	9:ED:364:SER:OG	2.50	0.45
9:EF:103:LYS:HB3	9:EF:103:LYS:HE2	1.72	0.45
9:EF:311:LEU:HD23	9:EF:311:LEU:HA	1.87	0.45
8:EI:223:THR:HG22	8:EI:224:TYR:H	1.82	0.45
8:EI:286:LEU:O	8:EI:373:ARG:NE	2.49	0.45
8:EM:51:THR:HG21	8:EM:243:ARG:HG2	1.98	0.45
44:ES:154:ASP:OD1	44:ES:433:HIS:ND1	2.49	0.45
44:EZ:253:THR:HG22	44:EZ:255:GLU:HG2	1.97	0.45
9:FB:205:GLU:HA	9:FB:208:TYR:HB2	1.98	0.45
8:FI:207:GLU:HA	8:FI:210:TYR:CD2	2.52	0.45
8:FI:324:VAL:HB	8:FI:327:ASP:OD2	2.17	0.45
8:FK:187:SER:HA	8:FK:190:THR:HG22	1.98	0.45
9:FN:379:LYS:HB2	9:FN:379:LYS:HE3	1.68	0.45
8:GG:335:ILE:HG23	8:GG:341:ILE:HD13	1.99	0.45
8:GM:16:ILE:HD12	8:GM:231:ILE:HG21	1.98	0.45
8:GM:246:GLY:HA2	8:GM:357:TYR:HD1	1.83	0.45
8:HE:320:ARG:NH2	8:HE:358:GLN:HE22	2.15	0.45
8:HG:298:PRO:HG2	8:HG:308:ARG:NH1	2.32	0.45
47:I:50:ASP:OD1	47:I:50:ASP:N	2.50	0.45
8:IC:166:LYS:HE2	8:IC:166:LYS:HB2	1.80	0.45
9:ID:329:GLN:O	9:ID:333:VAL:HG13	2.17	0.45
9:IH:110:ALA:O	9:IH:113:VAL:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IK:297:GLU:HG3	8:IK:299:ALA:HB3	1.99	0.45
8:IO:169:PHE:CE2	8:IO:202:PHE:HD2	2.34	0.45
8:JE:163:LYS:HD3	8:JE:163:LYS:HA	1.84	0.45
8:JE:395:LEU:HD23	8:JE:422:ARG:HD3	1.98	0.45
9:JH:406:MET:HE3	9:JH:406:MET:HB3	1.87	0.45
9:JN:207:LEU:HD13	9:JN:225:LEU:HB3	1.98	0.45
8:KC:49:PHE:HB2	8:KC:53:PHE:HD2	1.82	0.45
9:KD:152:ILE:HG22	9:KD:195:ASN:HB3	1.98	0.45
8:KE:166:LYS:N	8:KE:199:ASP:OD2	2.44	0.45
8:KE:167:LEU:HD21	8:KE:255:PHE:HZ	1.81	0.45
8:KI:334:THR:O	8:KI:337:THR:OG1	2.32	0.45
8:KK:53:PHE:O	8:KK:64:ARG:NH1	2.50	0.45
9:LB:372:THR:HG21	9:LB:426:GLN:HB2	1.98	0.45
8:LC:230:LEU:HD21	8:LC:368:LEU:HD21	1.99	0.45
8:LE:3:GLU:HA	8:LE:51:THR:HA	1.98	0.45
8:LK:422:ARG:HH12	8:LK:426:ALA:HB2	1.82	0.45
48:M:103:PRO:HA	48:M:104:PRO:HD3	1.88	0.45
9:MF:177:ASP:OD1	9:MF:178:THR:N	2.50	0.45
8:MI:346:TRP:CH2	8:MI:435:VAL:HG13	2.52	0.45
9:MJ:216:LYS:HD2	9:MJ:216:LYS:HA	1.75	0.45
9:MJ:219:THR:O	9:MJ:219:THR:OG1	2.31	0.45
9:NB:256:ASN:ND2	9:NB:350:LYS:HZ2	2.15	0.45
9:NF:193:VAL:HG23	9:NF:265:PHE:HZ	1.81	0.45
8:NK:288:VAL:HG21	8:NK:323:VAL:HG13	1.99	0.45
9:NL:51:TYR:HA	9:NL:61:PRO:HA	1.98	0.45
9:NL:208:TYR:CE1	9:NL:225:LEU:HD11	2.52	0.45
8:OA:195:LEU:HD12	8:OA:195:LEU:HA	1.81	0.45
9:OD:285:THR:OG1	9:OD:288:GLU:OE1	2.26	0.45
9:OH:12:CYS:HB2	69:OH:501:GDP:C8	2.52	0.45
9:OH:58:LYS:HE2	9:PH:280:GLN:HG3	1.97	0.45
9:OJ:314:ALA:HB3	9:OJ:368:ILE:HB	1.97	0.45
9:PD:39:ASP:OD1	9:PD:39:ASP:N	2.49	0.45
9:PH:253:LEU:O	9:PH:257:MET:HB2	2.16	0.45
9:PJ:117:LEU:HD23	9:PJ:121:ARG:HH22	1.81	0.45
8:PM:115:VAL:HG12	8:PM:149:PHE:CE1	2.52	0.45
8:PM:138:PHE:HZ	8:PM:235:VAL:HG21	1.81	0.45
8:PM:286:LEU:HD21	8:PM:371:VAL:HG12	1.99	0.45
53:Q:69:MET:HE3	53:Q:69:MET:HB3	1.79	0.45
9:QF:49:VAL:HG11	9:QF:241:ARG:HG3	1.99	0.45
9:QF:306:ARG:NH1	9:QF:340:TYR:OH	2.50	0.45
9:QH:54:ALA:HA	9:RH:283:ALA:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QK:288:VAL:HA	8:QK:291:ILE:HG22	1.99	0.45
9:QL:180:VAL:HG22	9:QL:183:TYR:HB2	1.99	0.45
9:QL:346:PRO:HD2	9:QL:347:ASN:N	2.20	0.45
8:RE:28:HIS:NE2	8:RE:48:SER:OG	2.40	0.45
8:RG:304:LYS:HD2	8:RG:304:LYS:HA	1.76	0.45
8:RI:311:LYS:N	8:RI:382:THR:OG1	2.35	0.45
8:RM:70:LEU:HD21	8:RM:114:ILE:HG13	1.98	0.45
8:RM:70:LEU:HB2	8:RM:145:THR:HG22	1.99	0.45
8:RM:150:ALA:O	8:RM:154:MET:HG2	2.17	0.45
8:SA:295:CYS:HB3	8:SA:377:MET:HG3	1.97	0.45
8:SC:310:GLY:HA3	8:SC:383:ALA:HB2	1.98	0.45
9:SD:68:LEU:HB3	9:SD:96:GLY:HA2	1.98	0.45
9:SD:255:VAL:HA	8:SE:407:TRP:CE2	2.51	0.45
9:SH:171:PRO:HG2	9:SH:185:ALA:HB2	1.98	0.45
9:SH:334:GLN:OE1	9:SH:348:ASN:N	2.50	0.45
8:SI:3:GLU:HB2	8:SI:51:THR:O	2.16	0.45
8:SI:257:THR:HG21	9:SJ:98:GLY:O	2.17	0.45
9:SL:215:LEU:HD11	9:SL:228:LEU:HD21	1.99	0.45
9:TB:299:MET:HE1	9:TB:367:PHE:HE2	1.82	0.45
9:TF:39:ASP:OD1	9:TF:39:ASP:N	2.49	0.45
9:TF:272:PRO:HG2	9:TF:361:LEU:HD13	1.98	0.45
9:TH:156:ARG:HD3	9:TH:164:MET:SD	2.56	0.45
8:TM:338:LYS:HE3	8:TM:340:THR:H	1.82	0.45
8:UC:325:PRO:O	8:UC:329:ASN:ND2	2.40	0.45
8:UI:79:ARG:NH2	8:UI:92:LEU:O	2.46	0.45
8:UI:406:HIS:HA	8:UI:409:VAL:HG12	1.99	0.45
9:UJ:200:TYR:HE2	9:UJ:368:ILE:HD12	1.82	0.45
8:UK:402:ARG:HD3	8:UK:402:ARG:HA	1.82	0.45
9:UN:12:CYS:SG	9:UN:16:ILE:HD11	2.57	0.45
9:UN:415:MET:HE3	9:UN:415:MET:O	2.15	0.45
8:VE:312:TYR:HE1	8:VE:341:ILE:HG23	1.82	0.45
8:VG:228:ASN:HA	8:VG:231:ILE:HG22	1.99	0.45
8:VK:265:ILE:HD11	8:VK:435:VAL:HG11	1.98	0.45
9:VL:347:ASN:ND2	8:VM:180:ALA:O	2.37	0.45
9:VN:139:LEU:HD11	9:VN:168:SER:HB3	1.99	0.45
9:WD:211:CYS:HA	9:WD:215:LEU:HB2	1.98	0.45
8:WE:200:CYS:HA	8:WE:266:HIS:HB2	1.98	0.45
9:WF:321:MET:HB3	9:WF:363:MET:HE2	1.99	0.45
9:WH:16:ILE:HD13	9:WH:229:VAL:HG11	1.99	0.45
8:WI:138:PHE:HZ	8:WI:235:VAL:HG21	1.81	0.45
8:WI:265:ILE:HG21	8:WI:313:MET:HE1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:XL:101:ARG:HD3	56:XL:144:TYR:HE2	1.82	0.45
57:YH:194:LEU:HB2	57:YH:247:MET:HG3	1.98	0.45
57:YI:217:LYS:H	57:YI:217:LYS:HG3	1.52	0.45
59:c:118:THR:OG1	59:c:121:GLU:OE1	2.35	0.45
59:c:254:ARG:HA	59:c:257:ARG:NH1	2.32	0.45
2:0Y:2:MET:HE1	2:0Y:152:TRP:HZ3	1.82	0.44
2:0i:60:ASN:OD1	2:0i:62:THR:N	2.50	0.44
7:A3:25:SER:O	8:QM:338:LYS:NZ	2.33	0.44
7:A8:212:LYS:NZ	8:SG:132:LEU:H	2.15	0.44
8:AC:136:LEU:HD11	8:AC:167:LEU:HD12	2.00	0.44
8:AC:211:ASP:OD2	8:AC:215:ARG:NH1	2.51	0.44
8:AC:247:ALA:HB3	8:AC:355:ILE:HB	1.99	0.44
9:AD:100:ASN:ND2	9:AD:398:TYR:CE1	2.83	0.44
9:AD:248:ALA:HA	9:AD:252:LYS:HG3	1.99	0.44
9:AH:293:MET:HB2	9:AH:293:MET:HE3	1.63	0.44
9:AJ:379:LYS:HE3	9:AJ:379:LYS:HB3	1.86	0.44
9:AL:87:PRO:HD3	9:BL:281:TYR:HD2	1.82	0.44
9:AL:131:GLN:HA	9:AL:162:ARG:HH21	1.80	0.44
8:AM:164:LYS:HA	8:AM:164:LYS:HE3	1.99	0.44
10:AQ:75:PRO:CB	10:AQ:96:ILE:HD13	2.46	0.44
11:AT:336:ARG:HD2	11:AT:336:ARG:HA	1.83	0.44
12:AW:173:LYS:HA	12:AW:173:LYS:HD2	1.84	0.44
13:Ab:139:ASN:O	13:Ab:142:THR:OG1	2.35	0.44
13:Ab:261:MET:HA	9:CJ:77:ARG:HH22	1.81	0.44
13:Ac:654:PRO:C	13:Ac:655:LEU:HD12	2.42	0.44
13:Ad:180:ASP:HB3	13:Ad:183:MET:HG2	1.99	0.44
13:Ad:237:LEU:HD12	13:Ad:238:HIS:N	2.32	0.44
16:Ax:69:LYS:HD2	16:Ax:69:LYS:HA	1.77	0.44
5:B:172:ARG:NH2	60:f:28:HIS:O	2.42	0.44
8:BC:124:LYS:HE2	8:BC:124:LYS:HB2	1.75	0.44
8:BC:156:ARG:HD3	8:BC:156:ARG:HA	1.73	0.44
9:BD:34:GLY:HA3	9:BD:58:LYS:NZ	2.32	0.44
9:BD:137:HIS:NE2	9:BD:168:SER:OG	2.41	0.44
9:BF:183:TYR:OH	9:BF:388:MET:O	2.35	0.44
8:BI:89:PRO:HB3	14:BY:283:ILE:HG23	1.99	0.44
9:BJ:325:GLU:O	9:BJ:329:GLN:HB2	2.17	0.44
8:BK:48:SER:OG	8:BK:243:ARG:O	2.28	0.44
8:BK:117:LEU:O	8:BK:121:ARG:HG2	2.18	0.44
21:Bk:302:GLU:OE2	21:Bk:305:ARG:NH1	2.43	0.44
28:C8:163:GLU:HG3	28:C8:308:ILE:HG23	1.98	0.44
8:CA:406:HIS:HA	8:CA:409:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:261:PRO:HD2	8:CC:265:ILE:HG23	1.99	0.44
8:CC:293:ASN:OD1	8:CC:293:ASN:N	2.50	0.44
9:CD:190:HIS:NE2	9:CD:410:GLU:OE2	2.49	0.44
9:CF:173:PRO:HD2	9:CF:205:GLU:HG2	1.99	0.44
8:CG:216:ASN:OD1	8:CG:216:ASN:N	2.50	0.44
9:CH:329:GLN:HA	9:CH:332:ASN:HB2	1.98	0.44
9:CL:163:ILE:HD11	9:CL:254:ALA:HB2	1.98	0.44
2:CT:70:PHE:CD2	2:CT:71:LEU:HD22	2.52	0.44
2:CT:114:LEU:HD23	2:CT:144:ILE:HD11	1.99	0.44
2:CY:84:PHE:HE2	2:CY:149:MET:SD	2.40	0.44
2:Cb:58:CYS:O	2:Cb:64:ARG:NH1	2.47	0.44
2:Cd:127:SER:HB2	8:PG:84:ARG:HH21	1.83	0.44
32:Cm:210:ASN:OD1	32:Cm:210:ASN:N	2.42	0.44
32:Cp:131:GLU:O	32:Cp:135:GLU:HG2	2.17	0.44
33:Cs:88:GLU:HB2	33:Cs:233:MET:HE1	1.99	0.44
33:Ct:318:LEU:HD23	33:Ct:318:LEU:HA	1.84	0.44
33:Cu:200:SER:HA	33:Cy:312:LYS:HD2	1.98	0.44
29:D4:113:ARG:HH22	29:D5:366:LYS:HD2	1.81	0.44
9:DD:73:MET:HA	9:DD:73:MET:HE3	1.98	0.44
8:DE:105:ARG:HH21	8:DE:110:ILE:HG13	1.83	0.44
9:DF:44:LEU:HD12	9:DF:47:ILE:HD12	1.99	0.44
9:DH:182:PRO:O	9:DH:186:THR:OG1	2.29	0.44
8:DI:345:ASP:OD1	8:DI:345:ASP:N	2.48	0.44
9:DJ:176:SER:OG	9:DJ:181:GLU:OE1	2.28	0.44
9:DJ:354:CYS:SG	9:DJ:355:ASP:N	2.90	0.44
8:DM:123:ARG:HA	8:DM:123:ARG:HD2	1.70	0.44
29:DQ:212:ASP:OD1	29:DQ:212:ASP:N	2.50	0.44
29:DR:467:ILE:O	29:DR:471:LYS:HG2	2.18	0.44
29:DV:193:VAL:HA	29:DV:196:GLU:HG3	1.98	0.44
37:De:221:THR:HG23	37:De:223:GLU:HB2	1.98	0.44
40:Dm:106:ARG:HA	8:GI:358:GLN:HE22	1.82	0.44
43:E1:79:LEU:HD23	43:E1:79:LEU:HA	1.84	0.44
9:EB:7:LEU:HD21	9:EB:151:LEU:HD22	2.00	0.44
9:EF:376:GLU:HA	9:EF:379:LYS:HB3	1.99	0.44
9:EH:189:VAL:HA	9:EH:193:VAL:HB	1.98	0.44
8:EI:377:MET:SD	8:EI:378:LEU:N	2.90	0.44
8:EK:33:ASP:OD1	8:EK:33:ASP:N	2.50	0.44
8:EK:269:LEU:N	8:EK:379:SER:O	2.49	0.44
8:EK:394:LYS:HB2	8:EK:394:LYS:HE3	1.72	0.44
44:ET:232:ASN:OD1	44:ET:232:ASN:N	2.49	0.44
44:EW:96:GLN:O	44:EW:100:THR:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:F:538:ARG:NH1	42:F:541:ARG:HH21	2.13	0.44
9:FB:271:ALA:O	9:FB:292:GLN:HG2	2.16	0.44
8:FC:133:GLN:NE2	8:FC:251:ASP:OD2	2.50	0.44
8:FC:289:ALA:O	8:FC:292:THR:OG1	2.35	0.44
9:FF:73:MET:HA	9:FF:76:VAL:HG12	1.99	0.44
9:FF:415:MET:O	9:FF:419:VAL:HG23	2.17	0.44
8:FG:2:ARG:HG3	8:FG:51:THR:HG22	1.99	0.44
8:FI:184:PRO:O	8:FI:188:ILE:HG12	2.17	0.44
8:FI:346:TRP:HH2	8:FI:435:VAL:HG13	1.82	0.44
8:GC:319:TYR:HB2	8:GC:355:ILE:HD13	1.98	0.44
9:GF:336:LYS:HB2	9:GF:336:LYS:HE3	1.91	0.44
8:GG:186:ASN:O	8:GG:190:THR:OG1	2.34	0.44
9:GJ:113:VAL:O	9:GJ:117:LEU:HB2	2.17	0.44
8:HG:3:GLU:HA	8:HG:51:THR:HA	1.99	0.44
8:HK:254:GLU:O	8:HK:258:ASN:ND2	2.50	0.44
9:HN:113:VAL:HA	9:HN:116:VAL:HG12	1.99	0.44
8:IC:320:ARG:HG2	8:IC:360:PRO:HD3	1.99	0.44
8:IG:405:VAL:HG13	8:IG:418:PHE:HE2	1.81	0.44
9:IH:46:ARG:HG2	9:IH:241:ARG:HA	1.99	0.44
8:IK:37:PRO:HG2	8:IK:40:LYS:HB3	1.99	0.44
9:IL:12:CYS:HB2	69:IL:501:GDP:C8	2.51	0.44
9:IL:122:LYS:HE3	51:O:125:PHE:CZ	2.52	0.44
9:IL:405:GLU:HG3	9:IL:406:MET:HE2	1.99	0.44
9:IN:183:TYR:HE2	9:IN:394:PHE:HB2	1.82	0.44
9:JB:382:SER:HB2	9:JB:415:MET:HE3	1.99	0.44
8:JK:79:ARG:HH12	8:JK:94:THR:HG21	1.82	0.44
9:KD:239:CYS:HB3	9:KD:248:ALA:H	1.82	0.44
9:KD:274:THR:HG21	9:KD:279:GLN:NE2	2.32	0.44
8:KE:150:ALA:O	8:KE:154:MET:HG2	2.17	0.44
9:KJ:362:LYS:HE2	9:KJ:362:LYS:HB3	1.71	0.44
9:KL:159:TYR:HB3	9:KL:162:ARG:HG2	1.99	0.44
9:LB:198:GLU:OE1	9:LB:266:PHE:HE2	1.99	0.44
8:LC:2:ARG:HG3	8:LC:133:GLN:HE22	1.82	0.44
9:LF:67:ASP:OD1	9:LF:68:LEU:N	2.45	0.44
8:LG:326:LYS:HE3	8:LG:326:LYS:HB3	1.74	0.44
9:MB:69:GLU:HG2	9:MB:72:THR:HG23	1.99	0.44
9:MD:211:CYS:HA	9:MD:215:LEU:HB2	1.98	0.44
8:MI:422:ARG:HH11	8:MI:422:ARG:C	2.25	0.44
9:N0:42:LEU:HD21	9:N0:243:PRO:HD2	1.98	0.44
8:NA:255:PHE:HA	8:NA:258:ASN:OD1	2.17	0.44
9:NB:318:ARG:NH2	9:NB:356:ILE:O	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NC:17:GLY:HA2	8:NC:20:CYS:HB2	1.99	0.44
9:ND:403:MET:HE3	9:ND:408:PHE:HE1	1.82	0.44
9:NF:232:THR:OG1	9:NF:269:GLY:O	2.33	0.44
8:NI:30:ILE:HG21	8:NI:53:PHE:HE2	1.81	0.44
9:NJ:273:LEU:O	9:NJ:292:GLN:NE2	2.47	0.44
9:NJ:293:MET:HE2	9:NJ:293:MET:HB2	1.85	0.44
8:NK:150:ALA:O	8:NK:154:MET:HG2	2.17	0.44
9:NL:58:LYS:NZ	9:NL:59:TYR:O	2.50	0.44
8:OA:88:HIS:CE1	8:PA:283:HIS:HB3	2.52	0.44
9:OB:206:ALA:O	9:OB:210:ILE:HG13	2.17	0.44
9:OD:184:ASN:OD1	9:OD:398:TYR:OH	2.28	0.44
8:OE:269:LEU:HG	8:OE:384:ILE:HD11	1.99	0.44
9:OF:183:TYR:OH	9:OF:388:MET:O	2.33	0.44
8:OI:88:HIS:HB3	8:OI:91:GLN:HG3	1.98	0.44
9:OJ:178:THR:HB	9:OJ:181:GLU:HB2	1.99	0.44
8:PC:196:GLU:N	8:PC:196:GLU:OE1	2.50	0.44
8:PE:10:GLY:HA2	8:PE:145:THR:HG23	1.99	0.44
8:PE:103:TYR:O	8:PE:107:HIS:HB2	2.16	0.44
9:PF:190:HIS:NE2	9:PF:410:GLU:OE2	2.50	0.44
9:PH:117:LEU:HA	9:PH:120:VAL:HG12	1.99	0.44
8:QA:75:VAL:HG21	8:QA:94:THR:HB	1.98	0.44
9:QB:228:LEU:HD23	9:QB:228:LEU:HA	1.84	0.44
9:QB:370:ASN:OD1	9:QB:371:SER:N	2.49	0.44
9:QD:142:GLY:N	69:QD:501:GDP:O2B	2.51	0.44
8:QE:9:VAL:HB	8:QE:146:GLY:HA2	1.99	0.44
9:QF:60:VAL:HG11	9:RF:281:TYR:HD1	1.82	0.44
9:QF:260:PHE:HB2	9:QF:263:LEU:HD13	1.98	0.44
9:QH:276:ARG:HH11	9:QH:276:ARG:HA	1.82	0.44
8:QI:271:THR:OG1	8:QI:301:GLN:OE1	2.31	0.44
9:QJ:293:MET:SD	9:QJ:367:PHE:HB2	2.57	0.44
9:QL:2:ARG:NH2	8:QM:71:GLU:OE2	2.50	0.44
9:QL:189:VAL:HA	9:QL:192:LEU:HB3	1.99	0.44
8:RA:167:LEU:HD21	8:RA:255:PHE:HZ	1.82	0.44
8:RA:306:ASP:OD1	8:RA:306:ASP:N	2.50	0.44
8:RA:398:MET:HG3	8:RA:403:ALA:HB3	1.98	0.44
9:RB:131:GLN:O	9:RB:162:ARG:NE	2.39	0.44
9:RD:221:THR:OG1	9:RD:222:TYR:N	2.50	0.44
9:RF:42:LEU:HD11	9:RF:243:PRO:HD2	1.99	0.44
8:RG:425:LEU:HA	8:RG:428:LEU:HB3	1.97	0.44
8:RI:91:GLN:HE21	8:RI:125:LEU:HD11	1.82	0.44
8:RI:231:ILE:H	8:RI:231:ILE:HD12	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RJ:229:VAL:HG12	9:RJ:233:MET:HE2	1.98	0.44
9:RL:313:VAL:HB	9:RL:349:VAL:HG13	1.97	0.44
8:RM:101:ASN:HD22	8:RM:101:ASN:HA	1.67	0.44
8:SA:349:THR:HG21	9:SB:176:SER:HB2	2.00	0.44
8:SG:397:LEU:O	8:SG:402:ARG:NH1	2.50	0.44
9:SL:255:VAL:HA	8:SM:407:TRP:CE2	2.52	0.44
8:TC:414:GLU:OE1	8:TC:416:GLY:N	2.50	0.44
8:TE:325:PRO:HG2	9:TF:222:TYR:CD2	2.52	0.44
9:TJ:246:LEU:HD21	8:TK:179:THR:HG21	1.99	0.44
9:TL:322:SER:O	9:TL:325:GLU:HG3	2.17	0.44
9:UB:296:ALA:HA	9:UB:299:MET:HE3	1.99	0.44
8:UG:276:ILE:HD12	8:UG:280:LYS:HB3	1.99	0.44
8:UG:362:VAL:HG21	59:c:208:GLN:NE2	2.31	0.44
9:UH:292:GLN:HG2	9:UH:298:ASN:HD22	1.81	0.44
8:UI:304:LYS:HE2	8:UI:304:LYS:HA	1.98	0.44
9:UJ:282:ARG:NH2	9:UJ:292:GLN:OE1	2.50	0.44
1:V:79:ARG:HH22	1:V:80:ARG:NE	2.15	0.44
9:VF:103:LYS:HB2	9:VF:103:LYS:HE3	1.61	0.44
9:VH:221:THR:OG1	9:VH:222:TYR:N	2.50	0.44
9:VJ:100:ASN:HD22	9:VJ:103:LYS:HE2	1.82	0.44
9:VJ:271:ALA:HB2	9:VJ:293:MET:HE3	1.98	0.44
9:VJ:276:ARG:HH12	59:b:349:GLU:HG3	1.83	0.44
8:VK:119:LEU:HD13	8:VK:156:ARG:CZ	2.48	0.44
8:VM:96:LYS:HD3	8:VM:96:LYS:HA	1.85	0.44
9:WB:323:MET:HE2	8:WC:210:TYR:OH	2.16	0.44
9:WF:297:LYS:HE3	9:WF:297:LYS:HB3	1.76	0.44
9:WH:122:LYS:HZ1	57:YJ:215:GLN:H	1.65	0.44
56:XL:50:GLU:HA	56:XL:158:ALA:HB1	2.00	0.44
56:XM:115:LYS:HD2	56:XM:115:LYS:HA	1.73	0.44
57:YI:194:LEU:HB2	57:YI:247:MET:HG3	1.99	0.44
57:YL:164:VAL:O	57:YL:168:THR:HG22	2.17	0.44
60:e:376:PRO:HG2	65:t:137:LYS:HA	1.98	0.44
60:e:589:HIS:NE2	60:e:611:ASP:OD2	2.30	0.44
60:g:60:GLN:HB3	60:g:104:ARG:HH12	1.81	0.44
62:j:59:SER:OG	62:j:63:TYR:O	2.35	0.44
63:k:129:LEU:HD23	63:k:129:LEU:HA	1.88	0.44
65:s:152:THR:HG23	65:s:154:ALA:H	1.82	0.44
2:0C:93:VAL:HA	2:0C:96:ASN:HD21	1.82	0.44
2:0E:10:ARG:O	2:0E:14:GLN:HG3	2.17	0.44
2:0e:134:HIS:O	2:0e:136:GLY:N	2.50	0.44
2:0i:71:LEU:HD23	2:0i:71:LEU:HA	1.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A0:147:ARG:NH2	9:IF:209:ASP:OD1	2.48	0.44
7:A1:124:ILE:O	9:PF:306:ARG:NH2	2.50	0.44
8:AA:88:HIS:CD2	8:AA:90:GLU:H	2.35	0.44
8:AC:47:ASP:OD1	8:AC:47:ASP:N	2.39	0.44
9:AD:247:ASN:OD1	8:AE:11:GLN:NE2	2.50	0.44
8:AG:3:GLU:N	8:AG:3:GLU:OE1	2.50	0.44
9:AJ:35:THR:HG21	14:Bc:255:LEU:HD21	1.99	0.44
8:AK:104:ALA:HB2	8:AK:413:MET:HE3	2.00	0.44
11:AT:142:GLU:OE2	11:AT:146:GLN:HG2	2.17	0.44
11:AU:418:GLU:OE1	9:GJ:362:LYS:NZ	2.44	0.44
13:Ab:157:ASP:OD1	13:Ab:158:ALA:N	2.50	0.44
13:Ab:206:LYS:HZ1	8:BI:59:GLY:N	2.15	0.44
13:Ab:270:LEU:HD23	13:Ab:319:TYR:HD2	1.82	0.44
7:Aw:82:ASP:OD2	7:Aw:84:GLY:N	2.49	0.44
8:BA:327:ASP:OD2	8:BA:327:ASP:N	2.49	0.44
9:BD:65:LEU:HD22	9:BD:90:PHE:HE2	1.83	0.44
9:BD:152:ILE:HG13	9:BD:195:ASN:ND2	2.32	0.44
8:BE:199:ASP:O	8:BE:266:HIS:ND1	2.51	0.44
8:BI:205:ASP:OD1	8:BI:207:GLU:N	2.51	0.44
8:BK:420:GLU:HA	8:BK:423:GLU:OE2	2.17	0.44
19:BP:210:LYS:HB3	19:BP:210:LYS:HE2	1.65	0.44
22:BX:14:THR:HA	9:JN:216:LYS:HZ1	1.83	0.44
25:Bl:106:UNK:O	9:SD:320:ARG:NH2	2.50	0.44
29:C1:166:LEU:HD12	29:C1:169:GLU:OE2	2.16	0.44
8:CC:67:PHE:HB3	8:CC:92:LEU:HD13	1.99	0.44
8:CC:238:ILE:HD11	8:CC:378:LEU:HD11	1.98	0.44
8:CE:392:ASP:OD2	8:CE:422:ARG:NH2	2.50	0.44
9:CF:263:LEU:HD12	9:CF:263:LEU:HA	1.62	0.44
14:CN:16:TYR:HB2	14:CN:39:THR:HG21	1.98	0.44
2:Cb:79:LYS:HB3	2:Cb:79:LYS:HE3	1.74	0.44
32:Cm:111:ILE:HG23	32:Cm:393:MET:HG2	1.97	0.44
32:Cm:327:GLU:CD	32:Co:217:TRP:HE1	2.21	0.44
32:Cn:244:ARG:HG3	33:Cq:245:LEU:HD13	1.99	0.44
33:Cq:307:LYS:HA	33:Cq:307:LYS:HD3	1.89	0.44
29:D4:416:GLN:O	29:D4:420:VAL:HG13	2.18	0.44
9:DB:86:ARG:HG2	9:DB:87:PRO:HD2	1.99	0.44
9:DF:382:SER:HB2	9:DF:415:MET:HE3	1.99	0.44
9:DJ:36:TYR:OH	9:DJ:40:SER:O	2.34	0.44
9:DJ:222:TYR:HA	9:DJ:225:LEU:HD12	1.98	0.44
9:DL:135:LEU:HD23	9:DL:166:THR:HG22	1.99	0.44
29:DP:114:LEU:O	29:DP:118:ARG:HG3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DP:173:LEU:HG	29:DP:239:ILE:HG23	2.00	0.44
29:DP:298:THR:HA	29:DP:301:LYS:HG2	1.98	0.44
29:DQ:367:THR:O	29:DQ:371:ILE:HG23	2.17	0.44
29:DW:193:VAL:O	29:DW:197:CYS:HB2	2.17	0.44
35:DZ:35:ALA:HA	8:JI:278:ALA:HB2	1.99	0.44
42:E:800:THR:HG23	42:E:803:ALA:H	1.81	0.44
43:E1:29:ASP:O	44:ES:192:ARG:NH1	2.46	0.44
9:EB:267:MET:HE3	9:EB:374:ILE:HG23	1.97	0.44
9:EB:323:MET:HB2	9:EB:323:MET:HE3	1.72	0.44
9:ED:324:LYS:NZ	8:EE:210:TYR:O	2.48	0.44
9:EJ:252:LYS:HG2	9:EJ:350:LYS:HE3	2.00	0.44
8:EK:150:ALA:O	8:EK:154:MET:HG2	2.17	0.44
9:EL:272:PRO:HG3	9:EL:364:SER:HA	1.99	0.44
28:F6:44:HIS:ND1	28:F6:70:THR:HA	2.32	0.44
9:FB:30:ILE:HG13	9:FB:51:TYR:HE2	1.81	0.44
8:FE:257:THR:HA	9:FF:397:TRP:CZ3	2.52	0.44
8:FI:362:VAL:HG11	8:FI:368:LEU:HB3	1.99	0.44
9:FJ:350:LYS:NZ	9:FJ:351:THR:O	2.47	0.44
9:FL:147:MET:HE3	9:FL:151:LEU:HD13	1.99	0.44
9:GB:77:ARG:HD2	9:GB:77:ARG:HA	1.79	0.44
9:GD:100:ASN:OD1	9:GD:100:ASN:N	2.49	0.44
9:GD:189:VAL:HG21	9:GD:415:MET:HE1	1.98	0.44
9:GH:113:VAL:HA	9:GH:116:VAL:HG12	1.99	0.44
9:GH:135:LEU:HD12	9:GH:152:ILE:HD11	2.00	0.44
9:GL:202:ILE:HD13	9:GL:202:ILE:HA	1.85	0.44
46:H:524:LYS:HA	46:H:524:LYS:HD2	1.81	0.44
9:HJ:19:LYS:HA	9:HJ:19:LYS:HD3	1.82	0.44
47:I:107:VAL:HG21	47:I:113:GLU:HG3	1.99	0.44
47:I:363:ASP:HB2	47:I:366:ARG:HH12	1.82	0.44
8:IE:139:HIS:ND1	8:IE:146:GLY:O	2.50	0.44
8:IE:239:THR:O	8:IE:239:THR:OG1	2.35	0.44
9:IF:97:ALA:O	9:IF:103:LYS:NZ	2.49	0.44
9:IF:121:ARG:HH21	51:N:128:ARG:HD3	1.82	0.44
8:II:199:ASP:HB3	8:II:256:GLN:HE21	1.82	0.44
8:IK:377:MET:HE2	8:IK:377:MET:HB3	1.89	0.44
8:IM:245:ASP:OD1	8:IM:245:ASP:N	2.47	0.44
8:IM:311:LYS:HD3	8:IM:311:LYS:HA	1.80	0.44
9:IN:154:LYS:HE2	9:IN:154:LYS:HB2	1.89	0.44
8:JC:205:ASP:N	8:JC:302:MET:O	2.48	0.44
8:JC:296:PHE:HD1	8:JC:341:ILE:HD13	1.82	0.44
9:JF:21:TRP:HH2	9:JF:61:PRO:HA	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JF:156:ARG:NH2	9:JF:197:ASP:OD2	2.51	0.44
9:JL:77:ARG:HD3	61:h:39:LEU:HD11	2.00	0.44
9:KB:91:VAL:HG21	9:KB:116:VAL:HG23	2.00	0.44
9:KD:66:VAL:HG11	9:KD:147:MET:HE1	2.00	0.44
9:KF:31:ASP:HB3	9:KF:37:HIS:CD2	2.52	0.44
9:KJ:246:LEU:HD21	8:KK:179:THR:HG21	1.99	0.44
8:KO:241:SER:OG	8:KO:250:VAL:O	2.35	0.44
50:L2:78:ALA:HB3	50:L2:81:LEU:HD11	1.99	0.44
9:LB:263:LEU:HD11	9:LB:421:GLU:OE1	2.17	0.44
8:LI:250:VAL:HG23	8:LI:254:GLU:HB3	2.00	0.44
8:MC:188:ILE:HG12	8:MC:391:LEU:HD21	2.00	0.44
9:MH:58:LYS:HE3	9:MH:58:LYS:HB3	1.68	0.44
8:NA:356:ASN:OD1	8:NA:357:TYR:N	2.49	0.44
9:NJ:58:LYS:HZ2	9:NJ:60:VAL:HG22	1.81	0.44
9:NJ:137:HIS:NE2	9:NJ:166:THR:OG1	2.50	0.44
9:NJ:289:LEU:HD22	9:NJ:363:MET:HE1	1.99	0.44
9:NL:320:ARG:HA	9:NL:320:ARG:HD3	1.76	0.44
51:O:106:LEU:O	51:O:110:THR:HG23	2.18	0.44
9:OB:101:TRP:NE1	9:OB:187:LEU:HD12	2.32	0.44
8:OC:117:LEU:HD23	8:OC:117:LEU:HA	1.83	0.44
8:OK:349:THR:OG1	8:OK:350:GLY:N	2.51	0.44
67:PD:502:GTP:N2	8:PE:206:ASN:OD1	2.35	0.44
8:PG:326:LYS:HZ1	9:PH:219:THR:HA	1.81	0.44
9:PH:257:MET:HE2	9:PH:368:ILE:HG22	2.00	0.44
8:PK:103:TYR:CG	8:PK:189:LEU:HD23	2.52	0.44
8:PM:396:ASP:OD2	8:PM:422:ARG:NH2	2.48	0.44
8:QA:3:GLU:HA	8:QA:51:THR:HA	1.99	0.44
9:QB:203:ASP:N	9:QB:300:MET:O	2.38	0.44
8:QC:418:PHE:O	8:QC:422:ARG:NH1	2.50	0.44
9:QH:246:LEU:HD11	67:QI:501:GTP:H5"	2.00	0.44
9:QL:103:LYS:O	9:QL:109:GLY:N	2.45	0.44
9:QL:383:GLU:HA	9:QL:386:THR:HG22	1.98	0.44
54:R:120:TYR:HA	54:R:123:MET:HE3	1.99	0.44
8:RA:84:ARG:HE	8:RA:84:ARG:HB3	1.54	0.44
8:RA:336:LYS:O	8:RA:339:ARG:NH2	2.46	0.44
8:RC:35:GLN:HE21	8:RC:35:GLN:HB3	1.64	0.44
9:RD:190:HIS:HD2	9:RD:414:ASN:HD22	1.63	0.44
9:RD:200:TYR:HE1	9:RD:268:PRO:HB3	1.82	0.44
8:RE:231:ILE:O	8:RE:235:VAL:HG12	2.18	0.44
9:RF:181:GLU:HA	9:RF:184:ASN:HD22	1.82	0.44
9:RH:60:VAL:HG22	9:SH:281:TYR:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RL:21:TRP:CZ3	9:RL:61:PRO:HB3	2.52	0.44
8:SA:196:GLU:N	8:SA:196:GLU:OE2	2.48	0.44
8:SC:316:CYS:HA	8:SC:352:LYS:HB3	1.99	0.44
9:SF:74:ASP:OD1	9:SF:74:ASP:N	2.49	0.44
9:SJ:21:TRP:HA	9:SJ:24:ILE:HG22	1.98	0.44
8:SM:151:SER:HA	8:SM:154:MET:HE1	1.98	0.44
9:TB:20:PHE:HB2	9:TB:233:MET:SD	2.57	0.44
9:TB:318:ARG:HH21	9:TB:356:ILE:HG23	1.81	0.44
9:TD:246:LEU:HD21	8:TE:179:THR:HG21	1.99	0.44
9:TJ:178:THR:HB	9:TJ:181:GLU:HG3	1.98	0.44
8:UC:238:ILE:HG23	8:UC:239:THR:HG23	2.00	0.44
8:UC:331:ALA:O	8:UC:335:ILE:HG12	2.17	0.44
9:UD:325:GLU:HA	9:UD:328:GLU:HG2	1.98	0.44
9:UJ:49:VAL:HG11	9:UJ:241:ARG:HG2	1.98	0.44
9:UJ:73:MET:HE3	9:UJ:92:PHE:HB3	1.99	0.44
9:VB:156:ARG:HE	9:VB:156:ARG:HB3	1.64	0.44
8:VE:145:THR:OG1	67:VE:501:GTP:O2B	2.35	0.44
8:VK:89:PRO:HD3	8:WK:283:HIS:ND1	2.33	0.44
8:VK:207:GLU:OE1	8:VK:207:GLU:N	2.49	0.44
9:VN:256:ASN:HD22	9:VN:350:LYS:HD3	1.82	0.44
55:W:156:ASN:HB3	55:W:157:ILE:H	1.58	0.44
8:WC:119:LEU:HD23	8:WC:119:LEU:HA	1.82	0.44
9:WD:331:LEU:CD2	8:WE:177:VAL:HG23	2.47	0.44
8:WE:99:ALA:HA	8:WE:105:ARG:HG2	1.99	0.44
8:WI:208:ALA:HB2	8:WI:304:LYS:HG2	1.98	0.44
8:WK:9:VAL:HG12	8:WK:146:GLY:HA2	1.99	0.44
9:WL:287:PRO:HG3	9:WL:329:GLN:HE22	1.81	0.44
57:YJ:131:ILE:O	57:YJ:135:LEU:HB2	2.17	0.44
59:b:367:ILE:O	59:b:371:ARG:HG3	2.17	0.44
59:b:428:PHE:O	59:b:432:THR:HG23	2.17	0.44
60:f:335:PHE:HZ	60:f:357:LYS:HD2	1.82	0.44
60:g:517:GLU:OE2	60:g:534:VAL:HG21	2.17	0.44
62:i:6:TYR:HB2	62:i:12:ILE:HG21	1.99	0.44
63:n:162:LYS:HE3	63:n:162:LYS:HB3	1.81	0.44
46:o:226:LYS:HD3	46:o:226:LYS:HA	1.69	0.44
65:r:75:ARG:O	65:r:77:ALA:N	2.49	0.44
2:0i:44:ILE:HG23	2:0i:49:GLN:HG2	1.98	0.44
4:3:1407:MET:HE3	4:3:1410:ALA:HB3	1.99	0.44
7:A8:95:THR:OG1	7:A8:96:LYS:N	2.50	0.44
8:AA:79:ARG:NH2	8:AA:92:LEU:O	2.50	0.44
9:AD:107:THR:OG1	9:AD:108:GLU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:230:LEU:HD21	8:AG:302:MET:SD	2.57	0.44
9:AH:262:ARG:HH11	9:AH:421:GLU:CD	2.25	0.44
9:AL:392:LYS:HE2	56:XH:97:LYS:HD2	2.00	0.44
12:AV:28:PHE:HE1	12:AV:33:GLY:HA2	1.81	0.44
12:AV:41:LYS:HD2	12:AV:41:LYS:HA	1.72	0.44
12:AW:68:ILE:HG12	12:AW:73:LEU:HD21	1.99	0.44
12:AW:166:ASP:OD1	12:AW:166:ASP:N	2.38	0.44
13:Aa:437:MET:HE3	13:Aa:437:MET:HB3	1.80	0.44
13:Aa:594:VAL:HA	13:Aa:595:PRO:HD2	1.86	0.44
13:Ab:333:TRP:HB3	9:CJ:32:PRO:HG2	2.00	0.44
7:Aw:110:LYS:HE3	7:Aw:110:LYS:HB3	1.59	0.44
17:B2:209:ARG:NH1	44:ES:288:ASP:OD2	2.50	0.44
9:BB:1:MET:HE3	9:BB:2:ARG:N	2.33	0.44
8:BE:254:GLU:HG2	9:BF:98:GLY:HA2	1.99	0.44
9:BL:350:LYS:HE2	8:BM:180:ALA:HA	1.99	0.44
6:BN:267:PRO:HG2	45:G:202:TYR:HB3	2.00	0.44
19:BQ:400:MET:HA	19:BQ:403:ARG:HG3	2.00	0.44
19:BQ:482:ASN:HD22	35:Da:201:ARG:HH22	1.65	0.44
14:Bd:236:ASN:OD1	14:Bd:236:ASN:N	2.50	0.44
21:Bj:181:GLU:O	21:Bj:185:LEU:HG	2.18	0.44
21:Bk:302:GLU:CD	21:Bk:305:ARG:HH12	2.26	0.44
28:C3:344:ASN:O	28:C3:348:THR:HG23	2.17	0.44
28:C7:73:GLN:NE2	28:C9:189:GLU:OE1	2.34	0.44
9:CH:69:GLU:OE2	9:CH:72:THR:OG1	2.36	0.44
2:CX:81:CYS:HA	2:CX:84:PHE:HB2	1.99	0.44
2:CY:9:LEU:HD22	2:CY:153:VAL:HG21	2.00	0.44
2:Ca:29:ALA:O	2:Ca:33:CYS:HB2	2.17	0.44
2:Ci:31:GLU:O	2:Ci:35:GLU:HG2	2.17	0.44
31:Cl:345:ASP:OD2	31:Cl:347:THR:OG1	2.31	0.44
32:Cm:195:SER:HB2	32:Cm:198:ILE:HG23	1.99	0.44
32:Cn:163:LEU:HD23	32:Cn:163:LEU:HA	1.86	0.44
32:Co:192:ASN:OD1	32:Co:192:ASN:N	2.50	0.44
33:Cr:318:LEU:HG	33:Cr:338:LEU:HB3	1.99	0.44
33:Cu:392:ASP:OD2	28:F3:337:TRP:NE1	2.39	0.44
29:D1:405:ARG:HH21	29:D1:411:CYS:N	2.16	0.44
29:D2:313:MET:HE3	29:D2:313:MET:HB3	1.80	0.44
29:D2:393:LYS:HG2	29:D8:280:ILE:HG12	1.99	0.44
29:D2:449:MET:HE3	29:EA:286:VAL:HG21	2.00	0.44
29:D3:141:THR:HG21	29:D4:422:GLU:OE1	2.16	0.44
29:D5:259:ASP:OD2	29:D7:409:GLU:HG2	2.17	0.44
29:D9:247:ARG:HA	29:D9:247:ARG:HD2	1.67	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DB:375:GLN:NE2	9:DB:379:LYS:HB2	2.33	0.44
9:DD:19:LYS:HA	9:DD:19:LYS:HD3	1.83	0.44
9:DD:105:HIS:HA	9:DD:150:LEU:HD12	2.00	0.44
9:DJ:207:LEU:HB3	9:DJ:225:LEU:HD22	1.98	0.44
9:DL:130:LEU:HD11	9:DL:132:GLY:O	2.17	0.44
9:DL:355:ASP:OD1	9:DL:355:ASP:N	2.50	0.44
9:DN:183:TYR:CD2	9:DN:398:TYR:HE2	2.35	0.44
29:DT:353:GLU:HA	29:DT:356:VAL:HG22	1.98	0.44
29:DW:461:LYS:HE2	29:DW:461:LYS:HB3	1.75	0.44
29:EA:426:ILE:HD11	29:EP:134:THR:HG23	1.98	0.44
8:EC:255:PHE:O	8:EC:259:LEU:HB2	2.17	0.44
9:EJ:248:ALA:HA	9:EJ:252:LYS:HD2	2.00	0.44
29:EQ:392:LEU:HD11	29:EQ:396:GLN:HE21	1.82	0.44
44:ES:236:THR:HG22	44:ES:237:ASP:H	1.82	0.44
8:FC:254:GLU:HG2	9:FD:98:GLY:HA2	1.99	0.44
9:FD:256:ASN:HB2	8:FE:181:VAL:HG22	1.98	0.44
9:FF:69:GLU:HA	9:FF:70:PRO:HD3	1.86	0.44
8:FG:105:ARG:HA	8:FG:109:THR:HG23	2.00	0.44
8:FK:199:ASP:HB3	8:FK:256:GLN:NE2	2.32	0.44
9:FL:103:LYS:O	9:FL:108:GLU:N	2.48	0.44
9:FL:219:THR:OG1	47:Y:457:ARG:NH2	2.44	0.44
8:FM:257:THR:HA	9:FN:397:TRP:CZ2	2.53	0.44
8:GC:216:ASN:O	8:GC:280:LYS:NZ	2.37	0.44
8:GE:261:PRO:HG3	8:GE:313:MET:SD	2.58	0.44
9:GL:406:MET:HE2	9:GL:406:MET:HA	1.99	0.44
8:HK:184:PRO:HD2	8:HK:398:MET:HE1	1.98	0.44
9:HL:324:LYS:HE3	8:HM:210:TYR:HB3	1.99	0.44
9:HN:346:PRO:HG3	8:HO:394:LYS:HG3	1.99	0.44
8:HO:8:HIS:ND1	8:HO:67:PHE:HE2	2.15	0.44
8:II:188:ILE:HA	8:II:188:ILE:HD12	1.77	0.44
9:IJ:65:LEU:HD22	9:IJ:73:MET:HE1	2.00	0.44
8:IK:339:ARG:NH2	8:IK:340:THR:HA	2.32	0.44
8:IM:346:TRP:HB3	9:IN:391:ARG:HG3	1.98	0.44
8:JG:108:TYR:O	8:JG:112:LYS:HD3	2.17	0.44
8:JI:245:ASP:OD1	8:JI:246:GLY:N	2.50	0.44
8:JM:296:PHE:CZ	8:JM:377:MET:HE1	2.53	0.44
49:K1:52:PRO:O	49:K1:58:ASN:ND2	2.32	0.44
9:KD:325:GLU:HG3	8:KE:221:ARG:HG2	1.98	0.44
9:LB:25:SER:HB3	9:LB:30:ILE:HB	2.00	0.44
9:LB:274:THR:HG21	9:LB:282:ARG:HD2	1.99	0.44
8:LC:41:THR:OG1	47:X:51:ARG:NH1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LF:192:LEU:O	9:LF:196:THR:OG1	2.31	0.44
8:LI:304:LYS:HD2	8:LI:304:LYS:HA	1.71	0.44
8:LK:264:ARG:HD2	54:S:248:HIS:HD2	1.82	0.44
8:LM:245:ASP:OD1	8:LM:245:ASP:N	2.49	0.44
9:MD:322:SER:OG	8:ME:221:ARG:NH1	2.51	0.44
9:MF:147:MET:HE2	9:MF:147:MET:HB3	1.69	0.44
9:MF:372:THR:HG21	9:MF:426:GLN:HB2	2.00	0.44
8:MI:317:MET:N	8:MI:352:LYS:O	2.50	0.44
8:MM:406:HIS:HB2	54:T:133:VAL:HG13	1.98	0.44
8:NA:297:GLU:OE1	8:NA:300:ASN:ND2	2.46	0.44
9:NB:191:GLN:O	9:NB:195:ASN:ND2	2.46	0.44
9:NH:3:GLU:OE2	9:NH:62:ARG:NH1	2.50	0.44
9:NH:268:PRO:HG2	9:NH:300:MET:HG3	2.00	0.44
9:NH:323:MET:HE2	9:NH:323:MET:HB2	1.80	0.44
8:NI:186:ASN:OD1	8:NI:408:TYR:OH	2.34	0.44
9:NL:22:GLU:N	9:NL:22:GLU:OE1	2.50	0.44
9:NL:141:GLY:O	9:NL:184:ASN:ND2	2.51	0.44
8:OC:189:LEU:HD11	8:OC:418:PHE:HE1	1.82	0.44
8:OE:9:VAL:HG11	8:OE:150:ALA:HB2	2.00	0.44
9:OF:190:HIS:HB2	9:OF:414:ASN:ND2	2.33	0.44
9:OH:204:ASN:ND2	69:OH:501:GDP:O2'	2.50	0.44
8:PE:386:GLU:O	8:PE:390:ARG:HG2	2.17	0.44
9:PJ:159:TYR:HB3	9:PJ:162:ARG:HG3	1.99	0.44
8:QE:204:VAL:HG12	8:QE:302:MET:HE3	1.99	0.44
8:QI:195:LEU:HD21	8:QI:428:LEU:HG	1.98	0.44
9:QJ:318:ARG:HE	9:QJ:358:PRO:HD3	1.82	0.44
9:QL:131:GLN:HE22	9:QL:250:LEU:H	1.64	0.44
9:RD:113:VAL:HG22	9:RD:117:LEU:HD23	1.99	0.44
9:RF:49:VAL:HG21	9:RF:240:LEU:CD1	2.48	0.44
9:RH:249:ASP:OD1	9:RH:249:ASP:N	2.35	0.44
9:RJ:131:GLN:HA	9:RJ:162:ARG:NH1	2.32	0.44
8:RK:240:ALA:HB1	8:RK:320:ARG:HH21	1.82	0.44
8:RM:51:THR:HG21	8:RM:243:ARG:HA	1.97	0.44
8:SA:5:ILE:HG12	8:SA:132:LEU:HD11	1.98	0.44
8:SA:250:VAL:HA	8:SA:254:GLU:HG2	1.99	0.44
9:SB:36:TYR:OH	9:SB:40:SER:O	2.32	0.44
8:SC:21:TRP:CZ3	8:SC:53:PHE:HE2	2.35	0.44
9:SJ:65:LEU:HD13	9:SJ:90:PHE:HE1	1.83	0.44
9:SJ:173:PRO:HD3	9:SJ:380:ARG:HH11	1.83	0.44
9:SL:274:THR:HG22	9:SL:282:ARG:HH11	1.83	0.44
9:TB:208:TYR:O	9:TB:212:PHE:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TC:16:ILE:HG13	8:TC:138:PHE:HD1	1.82	0.44
8:TE:145:THR:OG1	67:TE:501:GTP:O1B	2.35	0.44
8:TG:202:PHE:HE1	8:TG:270:ALA:HB2	1.83	0.44
8:TG:206:ASN:ND2	67:TG:501:GTP:HO2'	2.15	0.44
8:TG:313:MET:HE2	8:TG:313:MET:HB2	1.89	0.44
9:TJ:105:HIS:ND1	9:TJ:146:GLY:O	2.42	0.44
9:TL:259:PRO:HB2	9:TL:260:PHE:HD2	1.81	0.44
9:TL:300:MET:HA	9:TL:300:MET:HE3	1.99	0.44
9:UF:68:LEU:HD21	9:UF:147:MET:HE3	1.99	0.44
8:UK:71:GLU:HB2	8:UK:98:ASP:HB3	2.00	0.44
9:UL:13:GLY:HA2	9:UL:136:THR:HG22	1.97	0.44
9:UL:87:PRO:HD3	9:VL:281:TYR:CD2	2.52	0.44
9:UL:219:THR:O	9:UL:219:THR:OG1	2.34	0.44
9:UN:350:LYS:HA	9:UN:350:LYS:HD3	1.81	0.44
9:VB:36:TYR:OH	9:VB:40:SER:O	2.35	0.44
8:VM:139:HIS:ND1	8:VM:146:GLY:O	2.50	0.44
8:VM:236:SER:OG	8:VM:243:ARG:NH2	2.51	0.44
9:VN:257:MET:HB3	9:VN:266:PHE:HZ	1.82	0.44
55:W:182:GLU:OE1	55:W:186:ARG:NH2	2.50	0.44
8:WC:213:CYS:HA	8:WC:217:LEU:HD12	2.00	0.44
9:WF:73:MET:HB2	9:WF:73:MET:HE3	1.67	0.44
9:WJ:111:GLU:HG3	57:YI:90:LYS:HB2	1.98	0.44
8:WK:335:ILE:HD13	8:WK:338:LYS:HE3	1.99	0.44
8:WM:201:ALA:O	8:WM:268:PRO:HD3	2.17	0.44
8:WM:367:ASP:OD1	8:WM:367:ASP:N	2.51	0.44
59:a:105:GLU:HA	59:a:108:GLU:OE2	2.17	0.44
59:c:357:GLU:HB3	59:c:358:ARG:NH2	2.32	0.44
60:e:118:GLU:H	60:e:133:GLY:HA2	1.83	0.44
60:f:440:GLY:HA2	60:f:466:SER:HB2	1.99	0.44
46:o:524:LYS:O	46:o:528:ILE:HG12	2.18	0.44
2:0C:37:ALA:C	2:0C:38:HIS:HD1	2.25	0.44
2:0k:110:ASP:OD1	2:0k:112:SER:OG	2.31	0.44
5:A:44:LYS:HE3	5:A:44:LYS:HB3	1.81	0.44
7:A7:159:PRO:HB2	7:A7:160:SER:H	1.59	0.44
8:AA:149:PHE:O	8:AA:153:LEU:HB2	2.17	0.44
8:AC:254:GLU:O	8:AC:258:ASN:ND2	2.48	0.44
9:AD:413:SER:HB2	57:YK:154:LYS:HZ3	1.82	0.44
8:AG:96:LYS:HB2	8:AG:97:GLU:OE1	2.16	0.44
8:AI:9:VAL:HG21	8:AI:150:ALA:HB2	1.99	0.44
9:AJ:122:LYS:HB2	9:AJ:122:LYS:HE3	1.74	0.44
9:AJ:173:PRO:HB3	9:AJ:380:ARG:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:273:LEU:HD23	20:BT:216:ILE:HG23	1.99	0.44
13:Aa:616:ASN:HD21	13:Aa:654:PRO:HG3	1.82	0.44
13:Ab:87:ARG:NH2	13:Ab:177:CYS:SG	2.89	0.44
13:Ac:60:PHE:HE1	20:BS:362:TRP:HA	1.82	0.44
13:Ad:215:VAL:HB	8:CA:41:THR:HG23	1.98	0.44
15:Ar:23:MET:SD	8:KG:79:ARG:HG2	2.58	0.44
7:Av:126:ALA:HB2	9:OL:306:ARG:HG3	2.00	0.44
8:BA:26:LEU:HD23	8:BA:26:LEU:HA	1.87	0.44
8:BA:237:SER:OG	8:BA:376:CYS:SG	2.56	0.44
9:BB:20:PHE:CD2	9:BB:233:MET:HB3	2.52	0.44
9:BF:236:VAL:HG22	9:BF:368:ILE:HD11	2.00	0.44
8:BG:196:GLU:OE1	8:BG:196:GLU:N	2.38	0.44
8:BM:147:SER:OG	8:BM:186:ASN:O	2.31	0.44
19:BO:230:CYS:SG	19:BO:299:GLU:HG3	2.57	0.44
21:BV:185:LEU:HD11	9:MH:55:THR:HB	2.00	0.44
14:Ba:256:ARG:HA	14:Ba:256:ARG:HD3	1.84	0.44
14:Bb:77:PRO:HB2	63:n:83:PHE:HE1	1.83	0.44
24:Bh:50:LEU:HD21	24:Bh:71:MET:HG3	1.99	0.44
25:Bp:73:UNK:O	9:OB:320:ARG:NH2	2.50	0.44
27:Br:42:MET:HE1	8:MC:326:LYS:HE2	1.99	0.44
18:Bz:47:THR:OG1	9:KD:336:LYS:O	2.32	0.44
18:Bz:130:ASP:OD1	8:KG:215:ARG:NE	2.48	0.44
28:C3:179:LYS:HE2	28:C3:179:LYS:HB2	1.57	0.44
28:C3:295:SER:HB2	28:C5:412:CYS:HA	1.99	0.44
28:C5:201:HIS:CE1	28:C5:472:LYS:HG3	2.53	0.44
28:C5:344:ASN:O	28:C5:348:THR:HG23	2.18	0.44
9:CB:321:MET:HB3	9:CB:321:MET:HE2	1.64	0.44
8:CC:97:GLU:OE2	8:CC:105:ARG:NH1	2.47	0.44
8:CE:70:LEU:HA	8:CE:95:GLY:HA3	1.99	0.44
8:CG:42:ILE:HD12	8:CG:42:ILE:HA	1.90	0.44
8:CG:195:LEU:HD21	8:CG:428:LEU:HD13	1.98	0.44
8:CK:349:THR:HG23	9:CL:176:SER:HB2	2.00	0.44
9:CL:5:VAL:HG22	9:CL:62:ARG:HD3	2.00	0.44
2:CU:31:GLU:HA	2:CU:135:TYR:OH	2.18	0.44
2:CX:92:PRO:HA	2:CX:95:ASN:HB2	2.00	0.44
2:Ca:37:ALA:HB2	2:Ca:57:HIS:CD2	2.52	0.44
2:Ck:65:ARG:O	2:Ck:65:ARG:NH1	2.49	0.44
33:Ct:275:LEU:HD12	33:Ct:275:LEU:HA	1.84	0.44
33:Cv:125:ASP:OD1	33:Cv:126:ILE:N	2.49	0.44
33:Cw:85:LEU:HD23	33:Cw:85:LEU:HA	1.83	0.44
33:Cw:164:LEU:O	33:Cw:167:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:Cz:461:LYS:HD3	29:Cz:461:LYS:HA	1.71	0.44
34:D:116:THR:OG1	34:D:117:VAL:N	2.42	0.44
29:D5:350:ILE:HG23	29:D5:469:LYS:HE2	2.00	0.44
8:DC:21:TRP:CH2	8:DC:52:PHE:HB3	2.53	0.44
8:DE:295:CYS:HB2	8:DE:377:MET:HE1	1.99	0.44
8:DG:310:GLY:HA3	8:DG:383:ALA:HB2	1.99	0.44
9:DH:246:LEU:HD11	67:DI:501:GTP:H3'	1.99	0.44
9:DH:253:LEU:HD13	9:DH:368:ILE:HD12	1.99	0.44
8:DI:316:CYS:HB3	8:DI:378:LEU:HB2	1.98	0.44
9:DJ:257:MET:O	9:DJ:312:THR:HG21	2.18	0.44
8:DK:257:THR:HG21	9:DL:99:ASN:H	1.82	0.44
8:DM:311:LYS:NZ	8:DM:436:GLY:O	2.49	0.44
29:DR:337:ARG:HD2	29:DR:337:ARG:HA	1.86	0.44
29:DS:349:ARG:NH1	29:DS:353:GLU:HG2	2.32	0.44
29:DU:201:ARG:NH2	29:DU:212:ASP:OD1	2.50	0.44
29:DU:234:LYS:HD3	29:DU:234:LYS:HA	1.65	0.44
29:DW:444:LEU:O	29:DW:448:VAL:HG13	2.17	0.44
39:Dk:66:ALA:HB1	39:Dk:71:ILE:HB	1.99	0.44
40:Dm:62:LYS:HE2	40:Dm:62:LYS:HB3	1.71	0.44
40:Dm:78:THR:H	40:Dm:81:GLN:NE2	2.15	0.44
42:E:777:LEU:HD23	42:E:777:LEU:HA	1.83	0.44
43:E2:123:ILE:HD12	28:F4:425:TYR:HE2	1.83	0.44
8:EC:168:GLU:HB3	8:EC:201:ALA:HA	1.99	0.44
8:EC:180:ALA:N	8:EC:183:GLU:OE2	2.51	0.44
9:ED:190:HIS:CD2	9:ED:191:GLN:HG2	2.53	0.44
8:EG:98:ASP:OD1	8:EG:98:ASP:N	2.46	0.44
9:EJ:122:LYS:HD2	9:FJ:291:GLN:HE22	1.82	0.44
8:EK:93:ILE:HD12	8:EK:117:LEU:HD21	2.00	0.44
8:EK:234:ILE:HD11	8:EK:272:TYR:HB2	1.99	0.44
8:EM:265:ILE:O	8:EM:380:ASN:ND2	2.41	0.44
9:EN:47:ILE:HG22	9:EN:51:TYR:HB2	1.98	0.44
29:EO:149:LEU:HD23	29:EO:149:LEU:HA	1.73	0.44
29:EQ:421:ASN:O	29:EQ:425:THR:HG23	2.17	0.44
44:ES:116:GLU:OE2	44:ES:119:ARG:NH2	2.51	0.44
44:EV:376:ARG:HD2	44:EV:376:ARG:HA	1.70	0.44
8:FE:17:GLY:HA2	8:FE:20:CYS:HB2	1.99	0.44
9:FF:45:GLU:OE1	9:FF:46:ARG:NH1	2.51	0.44
8:FG:35:GLN:N	8:FG:35:GLN:OE1	2.50	0.44
8:FG:264:ARG:HH22	8:FG:431:ASP:CB	2.31	0.44
9:FH:139:LEU:HD12	9:FH:170:VAL:HG22	2.00	0.44
9:FH:256:ASN:HB3	8:FI:181:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:200:TYR:HD2	9:FJ:268:PRO:HG3	1.82	0.44
8:FM:84:ARG:O	8:FM:84:ARG:NH1	2.44	0.44
8:FM:238:ILE:HD13	8:FM:238:ILE:HA	1.88	0.44
8:GC:313:MET:HE3	8:GC:382:THR:HG22	2.00	0.44
8:GE:48:SER:OG	8:GE:48:SER:O	2.35	0.44
8:GG:276:ILE:HD11	8:GG:281:ALA:HA	1.99	0.44
9:GH:404:ASP:OD1	9:GH:405:GLU:N	2.48	0.44
8:GK:93:ILE:HD11	8:GK:121:ARG:HG3	1.99	0.44
9:GL:345:ILE:HG23	8:GM:398:MET:HE2	2.00	0.44
8:GM:269:LEU:HD11	8:GM:384:ILE:HD13	2.00	0.44
9:HB:156:ARG:HA	9:HB:156:ARG:HD3	1.70	0.44
8:HC:390:ARG:O	8:HC:394:LYS:HG2	2.17	0.44
8:HG:360:PRO:O	64:ke:91:ARG:NH1	2.51	0.44
9:IJ:110:ALA:HB2	9:IJ:150:LEU:HD21	1.99	0.44
8:IO:132:LEU:O	8:IO:164:LYS:NZ	2.46	0.44
8:JG:9:VAL:HG13	8:JG:139:HIS:HB3	1.98	0.44
8:JG:97:GLU:HG2	8:JG:105:ARG:NH2	2.30	0.44
9:JH:345:ILE:HD11	8:JI:404:PHE:HE2	1.82	0.44
9:JL:344:TRP:HZ3	8:JM:403:ALA:HB2	1.83	0.44
8:KC:238:ILE:HD11	8:KC:378:LEU:HD11	1.99	0.44
9:LB:40:SER:OG	9:LB:43:GLN:HG3	2.18	0.44
9:LF:372:THR:HG22	9:LF:422:TYR:HD1	1.83	0.44
8:LG:105:ARG:HG2	8:LG:411:GLU:OE1	2.18	0.44
9:LL:87:PRO:HB3	47:Y:40:VAL:HG11	1.99	0.44
9:MB:67:ASP:HB3	9:MB:73:MET:HE3	1.99	0.44
8:ME:153:LEU:O	8:ME:157:LEU:HB2	2.18	0.44
9:MF:323:MET:HE3	9:MF:323:MET:HB3	1.83	0.44
51:N:29:TYR:HE2	51:N:36:LEU:HD12	1.83	0.44
9:N0:47:ILE:HG21	9:N0:59:TYR:HE2	1.82	0.44
9:N0:54:ALA:HA	9:O0:283:ALA:HB2	2.00	0.44
9:N0:112:LEU:HD23	9:N0:147:MET:HE2	1.98	0.44
8:NA:10:GLY:HA2	8:NA:145:THR:HG22	1.99	0.44
8:NA:133:GLN:O	8:NA:165:SER:OG	2.27	0.44
9:ND:339:SER:OG	58:q:154:ASN:O	2.32	0.44
8:NE:181:VAL:HG13	8:NE:182:VAL:HG13	2.00	0.44
8:NI:170:ALA:HB3	8:NI:203:MET:HE1	1.99	0.44
8:NK:325:PRO:HG2	9:NL:222:TYR:CE1	2.53	0.44
9:OB:8:GLN:NE2	9:OB:65:LEU:HG	2.32	0.44
9:OD:311:LEU:HD23	9:OD:342:VAL:HG21	1.99	0.44
8:OE:360:PRO:HG3	8:OE:374:ALA:HB2	1.99	0.44
9:OJ:189:VAL:HA	9:OJ:192:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OK:60:LYS:NZ	8:OK:61:HIS:O	2.50	0.44
9:OL:117:LEU:HA	9:OL:120:VAL:HG12	2.00	0.44
8:PA:252:LEU:HA	8:PA:255:PHE:CE2	2.53	0.44
8:PC:90:GLU:OE2	8:PC:117:LEU:HD12	2.18	0.44
9:PD:105:HIS:CD2	9:PD:150:LEU:HB3	2.53	0.44
8:PE:280:LYS:HE2	8:PE:280:LYS:HB2	1.79	0.44
9:PF:329:GLN:O	9:PF:333:VAL:HG12	2.18	0.44
9:QB:314:ALA:HB3	9:QB:368:ILE:H	1.82	0.44
9:QF:16:ILE:HA	9:QF:226:ASN:HD21	1.83	0.44
8:QI:341:ILE:HA	8:QI:341:ILE:HD12	1.59	0.44
8:QM:313:MET:SD	8:QM:380:ASN:HB3	2.57	0.44
9:RB:381:ILE:O	9:RB:385:PHE:HB2	2.18	0.44
9:RL:242:PHE:HB3	9:RL:356:ILE:HD13	2.00	0.44
54:S:181:PHE:O	54:S:185:GLN:HG3	2.17	0.44
8:SA:137:ILE:HD11	8:SA:154:MET:HE3	2.00	0.44
8:SA:316:CYS:N	8:SA:378:LEU:O	2.46	0.44
9:SD:101:TRP:HZ3	9:SD:106:TYR:HE1	1.64	0.44
9:SH:16:ILE:HA	9:SH:226:ASN:OD1	2.17	0.44
9:SJ:8:GLN:CD	9:SJ:17:GLY:HA3	2.42	0.44
9:SJ:300:MET:SD	9:SJ:300:MET:N	2.90	0.44
9:SJ:325:GLU:HG3	8:SK:221:ARG:HG2	1.99	0.44
8:TC:115:VAL:HA	8:TC:118:VAL:HG12	1.98	0.44
9:TD:65:LEU:HD13	9:TD:90:PHE:CE1	2.52	0.44
8:TE:35:GLN:N	8:TE:35:GLN:OE1	2.51	0.44
9:TH:103:LYS:HA	9:TH:107:THR:HG22	1.99	0.44
8:TI:11:GLN:HA	8:TI:14:VAL:HG22	2.00	0.44
8:TK:53:PHE:HB3	8:TK:61:HIS:HB3	1.99	0.44
8:TM:122:ILE:H	8:TM:122:ILE:HD12	1.81	0.44
9:UF:140:GLY:HA2	9:UF:184:ASN:HB2	1.99	0.44
8:UG:341:ILE:HD12	8:UG:341:ILE:HA	1.60	0.44
8:UG:356:ASN:OD1	8:UG:357:TYR:N	2.50	0.44
9:UH:170:VAL:HG11	9:UH:377:LEU:HD21	1.99	0.44
9:UH:416:ASN:HA	9:UH:419:VAL:HB	1.99	0.44
9:UL:203:ASP:OD1	9:UL:203:ASP:N	2.46	0.44
9:UL:324:LYS:HZ1	8:UM:222:PRO:HG2	1.81	0.44
9:VD:350:LYS:HD2	9:VD:351:THR:N	2.32	0.44
9:VF:99:ASN:H	9:VF:142:GLY:HA3	1.82	0.44
9:VF:347:ASN:ND2	8:VG:180:ALA:O	2.48	0.44
9:VH:304:ASP:HB3	9:VH:307:HIS:CE1	2.53	0.44
8:VI:337:THR:HA	55:W:129:LYS:HD3	1.99	0.44
9:VJ:240:LEU:HA	9:VJ:240:LEU:HD12	1.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VJ:249:ASP:CG	9:VJ:252:LYS:HG2	2.42	0.44
9:VN:20:PHE:CD2	9:VN:233:MET:HG3	2.52	0.44
9:VN:299:MET:HE2	9:VN:299:MET:HB2	1.85	0.44
8:WG:304:LYS:HA	8:WG:304:LYS:HD2	1.75	0.44
9:WH:48:ASN:O	9:WH:62:ARG:NH1	2.42	0.44
9:WH:116:VAL:HG11	9:WH:151:LEU:HD11	2.00	0.44
8:WI:155:GLU:OE2	8:WI:193:THR:OG1	2.31	0.44
9:WN:321:MET:HE1	9:WN:326:VAL:HG21	1.98	0.44
47:X:266:TYR:OH	47:X:271:ASP:OD1	2.34	0.44
56:XH:106:SER:HB2	56:XH:109:GLN:HB2	1.98	0.44
59:a:145:LYS:NZ	59:a:149:GLN:HG2	2.32	0.44
60:e:202:CYS:SG	60:e:235:MET:HE2	2.57	0.44
65:t:67:ILE:HA	65:t:72:LEU:HD13	2.00	0.44
66:u:282:HIS:HE1	3:x:182:VAL:O	2.01	0.44
66:w:358:ARG:HD2	66:w:358:ARG:HA	1.67	0.44
4:z:1326:ARG:HH21	4:z:1327:GLU:HB2	1.83	0.44
2:0W:121:ASP:OD1	2:0W:121:ASP:N	2.45	0.44
3:1:116:PHE:HD2	3:1:267:LEU:HD21	1.82	0.44
6:A0:29:ILE:HG23	6:A0:30:LYS:H	1.81	0.44
6:A0:36:LEU:HD13	6:A0:39:LEU:HD12	2.00	0.44
7:A1:54:ARG:HH12	9:PJ:297:LYS:H	1.65	0.44
7:A1:58:MET:HE1	9:PJ:212:PHE:HE2	1.83	0.44
7:A1:146:MET:SD	7:A1:146:MET:N	2.91	0.44
7:A7:178:LYS:HE3	8:RC:164:LYS:NZ	2.32	0.44
7:A9:25:SER:HA	8:SE:161:TYR:HE1	1.82	0.44
8:AA:334:THR:O	8:AA:337:THR:OG1	2.35	0.44
8:AA:370:LYS:NZ	13:Ad:57:TRP:O	2.50	0.44
8:AE:395:LEU:HD23	8:AE:422:ARG:HD3	1.99	0.44
9:AH:164:MET:SD	9:AH:164:MET:N	2.90	0.44
9:AJ:253:LEU:CA	9:AJ:257:MET:HE1	2.47	0.44
8:AK:285:GLN:HB3	8:KM:56:THR:HA	1.98	0.44
12:AW:34:SER:HB3	12:AW:51:LYS:HA	1.99	0.44
13:Aa:99:VAL:HG11	13:Aa:146:PHE:CE2	2.52	0.44
13:Aa:423:PHE:HZ	13:Aa:437:MET:SD	2.40	0.44
7:Aw:53:PHE:O	9:OD:306:ARG:NH2	2.50	0.44
16:Ax:142:PRO:HG3	8:FC:338:LYS:HB3	2.00	0.44
9:BB:299:MET:HE1	9:BB:367:PHE:HD2	1.81	0.44
8:BC:202:PHE:CZ	8:BC:378:LEU:HD13	2.53	0.44
8:BE:184:PRO:HB3	8:BE:394:LYS:HB3	1.99	0.44
9:BH:382:SER:O	9:BH:386:THR:HG23	2.18	0.44
8:BI:91:GLN:HG3	8:BI:121:ARG:NH1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BI:216:ASN:OD1	8:BI:300:ASN:ND2	2.47	0.44
8:BI:339:ARG:CZ	8:BI:339:ARG:HA	2.48	0.44
8:BK:58:ALA:HB1	47:Y:233:LYS:HD3	2.00	0.44
8:BK:288:VAL:O	8:BK:292:THR:OG1	2.32	0.44
9:BL:93:GLY:O	9:BL:94:GLN:NE2	2.50	0.44
19:BO:261:ARG:O	19:BO:263:SER:N	2.50	0.44
21:Bk:237:GLU:OE1	26:Bq:123:ARG:NH2	2.49	0.44
18:Bz:214:PHE:HA	18:Bz:217:LEU:HD23	1.99	0.44
9:CB:170:VAL:HG11	9:CB:377:LEU:HD21	1.99	0.44
9:CB:245:GLN:NE2	9:CB:323:MET:SD	2.91	0.44
8:CC:431:ASP:HA	8:CC:434:GLU:HB3	1.99	0.44
9:CD:130:LEU:HD12	9:CD:131:GLN:H	1.83	0.44
9:CJ:334:GLN:HE21	9:CJ:349:VAL:HG23	1.82	0.44
8:CK:346:TRP:HB3	9:CL:391:ARG:HD3	1.98	0.44
2:CU:15:LYS:HD3	2:CU:15:LYS:HA	1.79	0.44
2:CU:112:SER:O	2:CU:115:ARG:NH2	2.50	0.44
30:CW:287:LEU:HD12	30:CW:288:TYR:CZ	2.53	0.44
2:CX:100:LYS:HA	2:CX:100:LYS:HD2	1.78	0.44
2:CY:54:MET:O	2:CY:64:ARG:NH1	2.51	0.44
2:Ci:77:LEU:HD13	2:Ci:145:ILE:HG21	2.00	0.44
33:Cv:307:LYS:HA	33:Cv:307:LYS:HD3	1.73	0.44
29:D3:286:VAL:HG12	29:D4:400:GLU:OE2	2.17	0.44
29:D4:243:MET:HE2	29:D4:243:MET:HB2	1.75	0.44
8:DA:211:ASP:HA	8:DA:214:ARG:HE	1.83	0.44
9:DD:282:ARG:HD3	9:DD:282:ARG:HA	1.81	0.44
8:DE:76:ASP:HA	8:DE:79:ARG:NH1	2.32	0.44
9:DH:137:HIS:HE2	9:DH:168:SER:HG	1.66	0.44
8:DI:394:LYS:HD2	8:DI:394:LYS:HA	1.73	0.44
8:DM:133:GLN:HB3	8:DM:252:LEU:HD12	1.99	0.44
8:DM:262:TYR:HE1	9:DN:393:ALA:HA	1.81	0.44
29:DS:238:ARG:HD2	29:DS:320:LEU:HD21	2.00	0.44
29:DT:200:GLN:O	29:DT:203:LYS:NZ	2.51	0.44
29:DU:436:ARG:HA	29:DU:436:ARG:HD2	1.71	0.44
35:DY:54:MET:HG2	8:IC:50:ASN:HD22	1.81	0.44
9:EB:2:ARG:HE	9:EB:2:ARG:HB2	1.63	0.44
9:ED:117:LEU:HA	9:ED:120:VAL:HG22	1.98	0.44
8:EE:88:HIS:HE1	8:FE:280:LYS:HB3	1.83	0.44
8:EE:107:HIS:HD2	8:EE:148:GLY:O	2.01	0.44
9:EH:255:VAL:HG21	8:EI:102:ASN:HD21	1.82	0.44
9:EJ:325:GLU:HA	9:EJ:328:GLU:HG3	1.98	0.44
9:EL:245:GLN:H	9:EL:245:GLN:HG2	1.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EQ:218:LEU:O	29:EQ:222:VAL:HG12	2.17	0.44
44:EV:71:ARG:HB2	44:EV:71:ARG:HH11	1.82	0.44
45:G:40:THR:HG21	9:GJ:19:LYS:NZ	2.32	0.44
9:GH:3:GLU:HB3	9:GH:130:LEU:HD12	1.99	0.44
9:GH:77:ARG:HA	9:GH:77:ARG:HD2	1.80	0.44
8:HE:2:ARG:HH22	64:ke:29:HIS:CE1	2.35	0.44
8:HE:90:GLU:HG3	8:HE:121:ARG:HD3	2.00	0.44
8:HE:360:PRO:HG3	8:HE:374:ALA:HB2	2.00	0.44
8:HG:103:TYR:O	8:HG:107:HIS:HB2	2.17	0.44
8:HI:103:TYR:CD2	8:HI:413:MET:HE1	2.52	0.44
8:HK:188:ILE:HD12	8:HK:188:ILE:HA	1.75	0.44
8:HO:153:LEU:HD12	8:HO:153:LEU:HA	1.82	0.44
9:IF:267:MET:HE2	9:IF:299:MET:SD	2.58	0.44
9:IH:258:VAL:HG23	8:II:407:TRP:HE1	1.82	0.44
9:IJ:116:VAL:HG11	9:IJ:151:LEU:HD11	1.98	0.44
9:IN:246:LEU:HD23	9:IN:246:LEU:HA	1.83	0.44
48:J:48:ARG:O	48:J:52:GLN:HG2	2.18	0.44
9:JD:161:ASP:OD1	9:JD:162:ARG:NH1	2.51	0.44
9:JF:257:MET:HB2	9:JF:257:MET:HE2	1.67	0.44
9:JF:275:SER:HG	9:JF:278:SER:HG	1.56	0.44
8:JG:187:SER:O	8:JG:191:THR:OG1	2.33	0.44
8:JG:414:GLU:N	8:JG:414:GLU:OE1	2.49	0.44
9:JH:375:GLN:HE22	9:JH:423:GLN:NE2	2.16	0.44
9:JJ:95:SER:OG	9:JJ:108:GLU:OE2	2.35	0.44
9:JL:197:ASP:OD1	9:JL:197:ASP:N	2.49	0.44
9:KB:189:VAL:HA	9:KB:192:LEU:HB3	1.99	0.44
9:KD:113:VAL:HG11	9:KD:154:LYS:HZ3	1.81	0.44
9:KL:202:ILE:HD13	9:KL:229:VAL:HG22	1.98	0.44
9:KN:375:GLN:HB2	9:KN:419:VAL:HG23	1.99	0.44
8:KO:47:ASP:OD1	8:KO:47:ASP:N	2.50	0.44
50:L2:66:TYR:OH	50:L2:70:LEU:O	2.29	0.44
8:LC:27:GLU:OE1	8:LC:243:ARG:NH1	2.50	0.44
9:LF:95:SER:OG	9:LF:108:GLU:OE2	2.28	0.44
9:LF:176:SER:OG	9:LF:181:GLU:OE1	2.33	0.44
9:LL:247:ASN:ND2	8:LM:71:GLU:OE2	2.49	0.44
8:ME:16:ILE:HD11	8:ME:171:ILE:HD11	1.99	0.44
8:MI:223:THR:HG22	8:MI:226:ASN:OD1	2.18	0.44
8:MM:207:GLU:HA	8:MM:210:TYR:HB2	1.99	0.44
51:N:58:ARG:HA	51:N:58:ARG:HD2	1.74	0.44
9:N0:105:HIS:HD2	9:N0:106:TYR:CE2	2.35	0.44
9:NF:2:ARG:HH12	8:NG:72:PRO:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NH:22:GLU:HA	9:NH:81:PHE:HE2	1.82	0.44
51:O:116:ASN:HB3	51:O:119:LEU:HD22	1.99	0.44
9:O0:109:GLY:HA2	9:O0:112:LEU:HD23	1.99	0.44
9:O0:335:ASN:O	9:O0:338:SER:OG	2.34	0.44
8:OA:119:LEU:HD23	8:OA:119:LEU:HA	1.87	0.44
8:OC:70:LEU:HB2	8:OC:98:ASP:HA	1.99	0.44
8:OE:103:TYR:CD2	8:OE:189:LEU:HB3	2.52	0.44
9:OJ:152:ILE:HD11	9:OJ:166:THR:HG21	1.99	0.44
9:OL:139:LEU:HA	9:OL:145:SER:HB2	2.00	0.44
9:OL:193:VAL:HA	9:OL:264:HIS:HE1	1.83	0.44
9:OL:196:THR:OG1	9:OL:264:HIS:NE2	2.50	0.44
9:PB:42:LEU:HD12	9:PB:43:GLN:HG3	1.99	0.44
8:PC:206:ASN:HA	8:PC:209:ILE:HG22	1.99	0.44
9:PD:131:GLN:NE2	9:PD:249:ASP:OD1	2.51	0.44
8:PE:319:TYR:HB2	8:PE:355:ILE:HD13	1.98	0.44
9:PF:326:VAL:O	9:PF:330:MET:HG3	2.17	0.44
9:PH:91:VAL:HG21	9:PH:116:VAL:HG12	2.00	0.44
9:PH:206:ALA:HB2	9:PH:302:ALA:HB2	1.99	0.44
9:QD:154:LYS:HA	9:QD:154:LYS:HD3	1.72	0.44
8:QE:3:GLU:OE2	8:QE:5:ILE:HD11	2.17	0.44
8:QG:138:PHE:CZ	8:QG:235:VAL:HG21	2.50	0.44
8:QK:56:THR:HG1	8:QK:60:LYS:H	1.62	0.44
9:QL:103:LYS:H	9:QL:103:LYS:HG2	1.55	0.44
9:RB:221:THR:OG1	9:RB:222:TYR:N	2.49	0.44
8:RE:119:LEU:HD13	8:RE:119:LEU:HA	1.82	0.44
8:RK:70:LEU:HB3	8:RK:98:ASP:HA	1.99	0.44
9:RL:164:MET:HE3	9:RL:165:ASN:N	2.33	0.44
9:RL:173:PRO:HD3	9:RL:205:GLU:HB3	2.00	0.44
8:RM:298:PRO:HG2	8:RM:308:ARG:HH11	1.82	0.44
8:SA:306:ASP:OD2	8:SA:309:HIS:ND1	2.51	0.44
9:SD:41:ASP:OD1	9:SD:41:ASP:N	2.49	0.44
8:SE:225:THR:OG1	8:SE:226:ASN:OD1	2.35	0.44
9:SF:19:LYS:HZ3	9:SF:227:HIS:HB2	1.81	0.44
9:SH:267:MET:HE3	9:SH:374:ILE:CG2	2.48	0.44
9:SH:290:THR:HG21	9:SH:329:GLN:HB3	2.00	0.44
8:SI:290:GLU:HG3	8:SI:291:ILE:HD13	1.99	0.44
9:TD:51:TYR:HD2	9:TD:59:TYR:HB3	1.83	0.44
9:TF:345:ILE:HG23	8:TG:398:MET:HE2	1.99	0.44
9:TH:215:LEU:HD21	9:TH:273:LEU:HD22	1.98	0.44
9:TH:251:ARG:O	9:TH:255:VAL:HG12	2.17	0.44
8:TI:304:LYS:HD3	8:TI:304:LYS:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TJ:226:ASN:HD21	69:TJ:501:GDP:HN1	1.66	0.44
9:TJ:321:MET:HB3	9:TJ:321:MET:HE2	1.81	0.44
8:TK:3:GLU:HA	8:TK:51:THR:HA	1.98	0.44
8:TM:112:LYS:HA	8:TM:112:LYS:HD3	1.71	0.44
9:UD:240:LEU:HD13	9:UD:249:ASP:HB2	2.00	0.44
8:UI:346:TRP:CZ3	8:UI:347:CYS:HB2	2.53	0.44
9:UL:1:MET:HE3	9:UL:2:ARG:HD3	2.00	0.44
8:UM:241:SER:O	8:UM:249:ASN:ND2	2.49	0.44
9:UN:360:GLY:HA2	59:d:341:PHE:HE2	1.81	0.44
9:VH:53:GLU:OE1	65:r:151:HIS:ND1	2.31	0.44
9:VL:1:MET:HG3	9:VL:2:ARG:N	2.32	0.44
9:VL:388:MET:HB3	9:VL:388:MET:HE2	1.67	0.44
8:WC:91:GLN:HE21	8:WC:125:LEU:HD11	1.83	0.44
9:WD:100:ASN:HD22	9:WD:103:LYS:HE2	1.82	0.44
9:WF:219:THR:O	9:WF:219:THR:OG1	2.24	0.44
9:WL:108:GLU:CD	57:YH:89:SER:HG	2.25	0.44
8:WM:121:ARG:HD2	8:WM:121:ARG:HA	1.77	0.44
8:WM:207:GLU:HA	8:WM:210:TYR:HB2	1.99	0.44
9:WN:101:TRP:CZ3	9:WN:146:GLY:HA2	2.53	0.44
9:WN:149:THR:HA	9:WN:152:ILE:HB	2.00	0.44
56:XH:99:VAL:CG2	56:XH:101:ARG:HH12	2.30	0.44
56:XI:94:LEU:HD12	56:XI:95:ASP:H	1.83	0.44
56:XK:78:MET:HG3	56:XK:80:ILE:HD11	2.00	0.44
57:YG:159:LEU:HD12	57:YG:159:LEU:HA	1.72	0.44
57:YG:181:MET:N	57:YG:181:MET:SD	2.91	0.44
57:YH:113:PHE:HA	57:YH:131:ILE:HD11	1.98	0.44
60:f:496:LEU:HD13	60:f:496:LEU:HA	1.89	0.44
62:j:94:MET:HE3	62:j:151:ILE:HD13	1.99	0.44
62:j:135:GLU:OE2	62:j:135:GLU:N	2.50	0.44
63:m:98:GLN:N	63:m:98:GLN:OE1	2.51	0.44
63:m:143:ARG:HH12	63:m:176:PRO:HD3	1.82	0.44
46:o:395:LYS:HD3	46:o:395:LYS:HA	1.61	0.44
4:y:1381:ILE:HG22	4:y:1385:VAL:HG12	1.99	0.44
2:0A:63:ASP:HB2	2:0A:64:ARG:HH21	1.82	0.44
2:0k:140:SER:O	2:0k:144:ILE:HG12	2.18	0.44
7:A3:123:SER:HA	9:QH:337:ASN:HD21	1.83	0.44
7:A6:228:MET:HG2	8:RM:114:ILE:HD11	2.00	0.44
7:A7:181:GLY:HA2	8:SC:338:LYS:HD3	2.00	0.44
8:AA:169:PHE:CE2	8:AA:235:VAL:HG22	2.52	0.44
9:AB:429:THR:OG1	9:AB:431:GLU:O	2.35	0.44
8:AE:43:GLY:H	13:Ac:64:VAL:HG11	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AE:121:ARG:NH1	8:AE:124:LYS:HD2	2.32	0.44
9:AF:139:LEU:HG	9:AF:168:SER:HB2	1.98	0.44
8:AM:153:LEU:HD12	8:AM:153:LEU:HA	1.87	0.44
13:Ab:272:LYS:N	13:Ab:317:GLU:O	2.34	0.44
13:Ac:533:LEU:HD23	13:Ac:533:LEU:HA	1.83	0.44
13:Ac:641:SER:HA	13:Ac:644:ILE:HG22	1.99	0.44
13:Ad:422:PHE:HZ	13:Ad:519:MET:HE1	1.82	0.44
7:Aw:22:LEU:HD11	41:Dn:192:LYS:HE2	2.00	0.44
16:Ax:163:ILE:HG23	9:FB:340:TYR:HD2	1.82	0.44
7:Ay:168:LYS:HD3	7:Ay:168:LYS:HA	1.73	0.44
8:BA:152:LEU:HA	8:BA:155:GLU:HG3	1.99	0.44
9:BB:156:ARG:NH2	9:BB:164:MET:HB3	2.33	0.44
9:BD:314:ALA:HB3	9:BD:368:ILE:HB	1.98	0.44
8:BE:9:VAL:HG12	8:BE:146:GLY:HA2	1.98	0.44
8:BI:195:LEU:HD11	8:BI:428:LEU:HD13	1.99	0.44
8:BI:368:LEU:HD23	8:BI:368:LEU:HA	1.91	0.44
9:BJ:107:THR:OG1	9:BJ:108:GLU:N	2.50	0.44
9:BJ:326:VAL:O	9:BJ:330:MET:HG2	2.17	0.44
8:BK:324:VAL:HG21	9:BL:219:THR:HB	1.99	0.44
9:BL:392:LYS:HE2	9:BL:392:LYS:HB2	1.82	0.44
19:BO:264:TRP:HH2	19:BO:280:THR:H	1.66	0.44
21:BV:135:ILE:HD13	9:LJ:22:GLU:HG2	1.99	0.44
21:Bi:368:TYR:HB2	9:LN:360:GLY:HA3	1.99	0.44
28:C4:454:THR:HG22	29:DW:44:GLY:HA3	1.98	0.44
28:C8:342:LYS:HE3	28:C8:342:LYS:HB2	1.81	0.44
9:CF:46:ARG:NH2	8:CG:76:ASP:OD2	2.51	0.44
8:CK:363:VAL:HG23	8:CK:366:GLY:HA3	2.00	0.44
9:CL:40:SER:OG	9:CL:41:ASP:N	2.49	0.44
9:CL:156:ARG:HG3	9:CL:195:ASN:HB3	1.99	0.44
8:CM:205:ASP:HB3	8:CM:208:ALA:HB3	2.00	0.44
17:CR:30:LYS:HA	17:CR:30:LYS:HD2	1.81	0.44
2:CU:109:ASN:HB3	2:CU:111:LEU:HD23	2.00	0.44
33:Ct:154:LYS:HE3	33:Ct:246:THR:HG21	2.00	0.44
29:D8:370:GLU:OE2	29:D9:113:ARG:HA	2.18	0.44
8:DA:195:LEU:HA	8:DA:267:PHE:HZ	1.82	0.44
8:DA:435:VAL:O	9:DB:391:ARG:NH2	2.51	0.44
9:DD:2:ARG:HD2	9:DD:131:GLN:HG3	1.99	0.44
9:DF:136:THR:HG22	9:DF:167:PHE:H	1.83	0.44
9:DJ:20:PHE:HA	9:DJ:230:SER:OG	2.18	0.44
9:DJ:113:VAL:HA	9:DJ:116:VAL:HG22	1.99	0.44
9:DJ:252:LYS:HD3	8:DK:100:ALA:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DT:220:ARG:O	29:DT:224:MET:HB3	2.17	0.44
29:DU:475:MET:N	29:DU:475:MET:SD	2.90	0.44
39:Dl:82:LEU:HD12	39:Dl:82:LEU:HA	1.71	0.44
43:E3:199:ARG:HB2	43:E3:200:PRO:HD3	2.00	0.44
9:EB:380:ARG:HA	9:EB:383:GLU:HG3	1.99	0.44
9:ED:308:GLY:HA3	9:ED:373:ALA:HB2	2.00	0.44
8:EG:405:VAL:O	8:EG:409:VAL:HG12	2.18	0.44
9:EH:135:LEU:HB3	9:EH:166:THR:HG22	2.00	0.44
8:EK:127:ASP:OD2	8:FK:293:ASN:ND2	2.50	0.44
9:EL:36:TYR:OH	9:EL:40:SER:O	2.33	0.44
44:EW:41:LEU:HB3	44:EW:44:SER:HB3	1.99	0.44
9:FD:5:VAL:HB	9:FD:133:PHE:HD2	1.83	0.44
9:FH:132:GLY:HA2	9:FH:162:ARG:HB3	1.99	0.44
8:FI:115:VAL:HG21	8:FI:152:LEU:HD23	1.98	0.44
8:GC:35:GLN:OE1	8:GC:35:GLN:N	2.44	0.44
9:GF:164:MET:HE3	9:GF:164:MET:HB2	1.89	0.44
8:GM:17:GLY:HA2	8:GM:20:CYS:HB2	2.00	0.44
9:HB:215:LEU:HD21	9:HB:273:LEU:HD22	2.00	0.44
8:HE:1:MET:HG3	64:ke:18:MET:HE3	2.00	0.44
9:HH:274:THR:OG1	9:HH:279:GLN:OE1	2.33	0.44
8:HI:155:GLU:HA	8:HI:197:HIS:HD2	1.82	0.44
8:HK:35:GLN:OE1	8:HK:35:GLN:N	2.38	0.44
8:HK:298:PRO:HG3	8:HK:307:PRO:HD2	1.99	0.44
8:HO:69:ASP:OD1	8:HO:70:LEU:N	2.51	0.44
9:ID:1:MET:HE1	9:ID:129:CYS:N	2.32	0.44
8:IE:234:ILE:HD11	8:IE:270:ALA:HB1	1.99	0.44
8:IG:70:LEU:HD23	8:IG:145:THR:HG23	2.00	0.44
8:II:362:VAL:HG12	8:II:370:LYS:NZ	2.32	0.44
8:IK:273:ALA:HB2	8:IK:295:CYS:SG	2.58	0.44
9:IL:183:TYR:HE2	9:IL:394:PHE:HB2	1.82	0.44
9:IL:208:TYR:CE1	9:IL:225:LEU:HD11	2.52	0.44
9:IL:324:LYS:NZ	9:IL:328:GLU:OE2	2.45	0.44
48:J:112:LEU:O	48:J:114:ARG:N	2.45	0.44
9:KB:1:MET:HB3	8:KC:96:LYS:HG2	1.99	0.44
8:KE:297:GLU:OE2	8:KE:298:PRO:HD2	2.17	0.44
8:KG:264:ARG:NH2	8:KG:424:ASP:OD1	2.35	0.44
8:KI:429:GLU:O	8:KI:433:GLU:HG3	2.18	0.44
8:KM:313:MET:HE3	8:KM:313:MET:HB2	1.82	0.44
8:LC:202:PHE:CE1	8:LC:378:LEU:HD23	2.52	0.44
9:LD:143:THR:O	9:LD:147:MET:CB	2.64	0.44
8:LK:269:LEU:HD21	8:LK:384:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LL:13:GLY:HA2	9:LL:136:THR:HG22	1.99	0.44
8:ME:215:ARG:HH22	8:ME:299:ALA:HB1	1.82	0.44
8:MG:271:THR:HG21	8:MG:295:CYS:HA	2.00	0.44
9:MH:62:ARG:NH1	9:MH:127:CYS:SG	2.91	0.44
8:MK:105:ARG:HG2	8:MK:411:GLU:HG3	1.99	0.44
9:ML:256:ASN:OD1	9:ML:350:LYS:NZ	2.51	0.44
9:NB:17:GLY:HA2	9:NB:20:PHE:HB3	1.98	0.44
9:NB:256:ASN:HB3	8:NC:182:VAL:HG13	1.99	0.44
8:NC:155:GLU:OE1	8:NC:197:HIS:ND1	2.51	0.44
8:NG:172:TYR:HB2	8:NG:203:MET:HB2	1.98	0.44
9:NH:86:ARG:HG2	9:NH:88:ASP:H	1.81	0.44
9:NJ:334:GLN:NE2	9:NJ:348:ASN:OD1	2.50	0.44
9:NL:52:ASN:OD1	9:NL:62:ARG:NH2	2.51	0.44
8:OC:304:LYS:HB3	8:OC:304:LYS:HE2	1.78	0.44
9:OD:256:ASN:HD21	8:OE:101:ASN:HD22	1.66	0.44
9:OF:319:GLY:HA2	9:OF:357:PRO:HD3	1.99	0.44
9:OH:183:TYR:O	9:OH:187:LEU:HB2	2.17	0.44
8:OI:304:LYS:HA	8:OI:304:LYS:HD3	1.73	0.44
8:OI:320:ARG:HB2	8:OI:374:ALA:HB3	2.00	0.44
9:OJ:32:PRO:HB3	9:OJ:81:PHE:HA	2.00	0.44
9:OL:270:PHE:CD1	9:OL:272:PRO:HD2	2.53	0.44
9:PB:292:GLN:HA	9:PB:295:ASP:HB2	2.00	0.44
8:PC:244:PHE:HB2	8:PC:356:ASN:HD21	1.82	0.44
9:PD:101:TRP:CD1	9:PD:105:HIS:HB2	2.53	0.44
8:QA:288:VAL:O	8:QA:292:THR:OG1	2.22	0.44
8:QC:203:MET:HE1	8:QC:267:PHE:HB3	1.99	0.44
9:QF:251:ARG:O	9:QF:255:VAL:HG13	2.18	0.44
8:QG:16:ILE:HD11	8:QG:138:PHE:HB3	1.99	0.44
8:QI:9:VAL:HA	8:QI:68:VAL:HG23	2.00	0.44
9:QJ:252:LYS:HG2	9:QJ:350:LYS:HZ1	1.82	0.44
9:QJ:291:GLN:OE1	9:QJ:292:GLN:NE2	2.37	0.44
9:QJ:330:MET:HG2	9:QJ:349:VAL:HG11	2.00	0.44
8:QK:224:TYR:HB3	8:QK:228:ASN:ND2	2.33	0.44
8:RA:16:ILE:HD11	8:RA:138:PHE:HD2	1.83	0.44
9:RF:371:SER:OG	9:RF:372:THR:N	2.51	0.44
8:RG:195:LEU:HD11	8:RG:428:LEU:HD22	2.00	0.44
9:SB:207:LEU:HD23	9:SB:207:LEU:HA	1.77	0.44
9:SD:286:VAL:HB	9:SD:325:GLU:HG2	1.99	0.44
8:SE:205:ASP:N	8:SE:302:MET:O	2.51	0.44
8:SG:50:ASN:O	8:SG:64:ARG:NH2	2.51	0.44
8:SG:295:CYS:HB3	8:SG:377:MET:HG3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SH:294:PHE:HE1	9:SH:313:VAL:HG11	1.82	0.44
8:SM:70:LEU:HD12	8:SM:145:THR:HG22	1.99	0.44
8:TE:165:SER:OG	8:TE:165:SER:O	2.35	0.44
8:TG:26:LEU:HD23	8:TG:363:VAL:HG22	1.98	0.44
8:TK:238:ILE:HD11	8:TK:255:PHE:CE2	2.53	0.44
8:TM:69:ASP:CG	8:TM:71:GLU:H	2.25	0.44
8:TM:172:TYR:CD1	8:TM:173:PRO:HD2	2.53	0.44
8:UC:332:ILE:HG23	8:UC:351:PHE:CD2	2.53	0.44
8:UE:204:VAL:HG23	8:UE:302:MET:HB3	1.99	0.44
9:UH:181:GLU:OE1	9:UH:182:PRO:HD3	2.17	0.44
9:UH:257:MET:HB3	9:UH:266:PHE:HZ	1.83	0.44
9:UL:12:CYS:SG	9:UL:138:SER:HB2	2.58	0.44
9:UL:275:SER:OG	9:UL:276:ARG:N	2.48	0.44
9:VD:11:GLN:HE22	69:VD:501:GDP:PA	2.41	0.44
9:VF:123:GLU:O	9:VF:126:SER:OG	2.32	0.44
9:VJ:249:ASP:O	9:VJ:252:LYS:HB2	2.17	0.44
9:VN:9:ALA:HB1	9:VN:144:GLY:HA2	1.99	0.44
9:WB:8:GLN:OE1	9:WB:136:THR:OG1	2.36	0.44
8:WC:65:ALA:H	8:WC:91:GLN:HE22	1.65	0.44
8:WG:276:ILE:HG13	8:WG:280:LYS:HB3	2.00	0.44
8:WG:334:THR:O	8:WG:337:THR:OG1	2.34	0.44
9:WJ:125:GLU:OE1	9:WJ:159:TYR:OH	2.22	0.44
8:WK:124:LYS:HE3	8:WK:124:LYS:HB2	1.71	0.44
9:WL:376:GLU:HA	9:WL:379:LYS:HG3	2.00	0.44
56:XL:89:PHE:CE2	56:XL:105:ALA:HB3	2.53	0.44
57:YL:109:LEU:HD23	57:YL:145:VAL:HG11	1.99	0.44
59:c:219:LEU:HD23	59:c:219:LEU:HA	1.87	0.44
58:q:153:ARG:HD3	58:q:153:ARG:HA	1.76	0.44
65:t:67:ILE:HG22	65:t:72:LEU:HD22	1.99	0.44
65:t:80:TYR:CD2	65:t:93:ILE:HG23	2.52	0.44
66:w:393:ASP:OD1	66:w:393:ASP:N	2.51	0.44
3:x:246:GLU:C	3:x:249:GLN:HE22	2.24	0.44
2:0i:50:VAL:HG21	2:0i:70:PHE:HE2	1.82	0.44
3:1:192:LYS:HD3	3:1:192:LYS:HA	1.74	0.44
3:2:25:LYS:HE2	3:2:25:LYS:HB2	1.87	0.44
7:A7:16:ARG:HG3	7:A7:17:GLY:H	1.82	0.44
8:AC:97:GLU:HB3	8:AC:110:ILE:HD13	2.00	0.44
9:AD:200:TYR:HE1	9:AD:266:PHE:HD2	1.65	0.44
9:AF:192:LEU:O	9:AF:196:THR:HG22	2.17	0.44
8:AK:130:THR:OG1	8:AK:131:GLY:N	2.50	0.44
8:AK:360:PRO:HG3	8:AK:374:ALA:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AM:204:VAL:HG11	8:AM:231:ILE:HD11	2.00	0.44
12:AW:366:LEU:HD21	1:V:114:LEU:HD23	2.00	0.44
7:Av:127:ARG:NH1	9:OL:209:ASP:OD2	2.49	0.44
17:B9:17:ASP:HA	17:B9:20:ARG:HH12	1.83	0.44
8:BC:79:ARG:HH22	8:BC:94:THR:HG23	1.83	0.44
9:BD:30:ILE:HG21	9:BD:51:TYR:HE2	1.82	0.44
8:BE:107:HIS:ND1	8:BE:107:HIS:O	2.49	0.44
9:BJ:19:LYS:HD3	9:BJ:19:LYS:HA	1.81	0.44
9:BL:317:PHE:HB2	9:BL:353:VAL:HG22	2.00	0.44
8:BM:7:ILE:HG23	8:BM:66:VAL:HG13	1.99	0.44
8:BM:132:LEU:HB2	8:BM:164:LYS:HE3	1.98	0.44
14:Bb:287:MET:HE3	14:Bb:287:MET:HB2	1.87	0.44
21:Bj:199:GLN:OE1	9:KD:276:ARG:NH1	2.51	0.44
25:Bp:74:UNK:HA	9:OB:320:ARG:NH1	2.31	0.44
27:Bs:329:GLN:NE2	9:HH:359:ARG:HG2	2.33	0.44
26:Bu:175:LEU:HA	33:Cs:31:GLN:HG3	2.00	0.44
28:C5:191:PRO:HA	28:C5:194:VAL:HG12	1.99	0.44
28:C7:104:LEU:HD12	28:C7:104:LEU:HA	1.84	0.44
28:C8:481:PRO:HB2	28:C8:486:LEU:HD21	1.99	0.44
28:C9:217:LYS:O	28:C9:221:THR:HG23	2.18	0.44
8:CA:154:MET:HE3	8:CA:154:MET:HB3	1.76	0.44
9:CB:271:ALA:HB1	9:CB:289:LEU:HD22	1.99	0.44
8:CC:335:ILE:HD13	8:CC:338:LYS:NZ	2.33	0.44
9:CH:379:LYS:HD3	9:CH:380:ARG:HG3	2.00	0.44
8:CI:238:ILE:HD11	8:CI:378:LEU:HD11	1.99	0.44
17:CQ:7:LYS:HB3	17:CQ:7:LYS:HE2	1.82	0.44
2:Ch:117:LYS:HA	2:Ch:117:LYS:HD3	1.75	0.44
2:Ci:60:ASN:OD1	2:Ci:63:ASP:N	2.30	0.44
32:Co:130:ASP:CG	32:Co:132:VAL:HG12	2.43	0.44
29:D1:356:VAL:HG11	29:D1:461:LYS:HE2	1.99	0.44
29:D4:233:ARG:O	29:D4:237:GLN:HG2	2.17	0.44
8:DA:201:ALA:HB3	8:DA:267:PHE:CD2	2.52	0.44
9:DB:252:LYS:HZ3	8:DC:101:ASN:N	2.15	0.44
9:DH:237:THR:HG22	9:DH:240:LEU:HB2	1.99	0.44
8:DI:19:ALA:HB3	8:DI:228:ASN:HB3	2.00	0.44
8:DK:66:VAL:HG21	8:DK:122:ILE:HD11	1.99	0.44
8:DM:68:VAL:HG22	8:DM:93:ILE:HD11	1.99	0.44
29:DQ:451:LYS:HE3	29:DQ:451:LYS:HB3	1.74	0.44
29:DX:310:SER:O	29:DX:314:ARG:HD2	2.18	0.44
39:Dl:82:LEU:N	39:Dl:85:SER:O	2.49	0.44
40:Dm:50:GLN:HB2	40:Dm:55:LYS:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:E:764:TYR:HE2	8:IC:282:TYR:HB2	1.82	0.44
8:EE:313:MET:SD	8:EE:313:MET:N	2.91	0.44
8:EI:326:LYS:HB3	9:EJ:208:TYR:HE2	1.81	0.44
9:EL:35:THR:OG1	9:EL:37:HIS:CE1	2.71	0.44
9:EL:311:LEU:H	9:EL:371:SER:HA	1.83	0.44
8:EM:395:LEU:HA	8:EM:398:MET:HB2	1.99	0.44
29:EQ:363:GLN:HA	29:EQ:366:LYS:HG2	1.99	0.44
44:ET:195:LYS:HB2	44:ET:195:LYS:HE2	1.78	0.44
42:F:321:CYS:HB3	9:IF:215:LEU:HD22	1.99	0.44
42:F:461:HIS:O	42:F:465:VAL:HG23	2.18	0.44
8:FC:233:GLN:HB3	8:FC:272:TYR:HE1	1.83	0.44
8:FC:260:VAL:HG11	8:FC:266:HIS:HA	1.99	0.44
9:FF:296:ALA:HA	9:FF:299:MET:HG2	1.99	0.44
8:FI:7:ILE:HG23	8:FI:66:VAL:HG13	1.99	0.44
8:FM:2:ARG:NH2	8:FM:47:ASP:OD1	2.50	0.44
9:GJ:314:ALA:HB3	9:GJ:368:ILE:HB	1.99	0.44
9:GN:330:MET:SD	9:GN:349:VAL:HG13	2.58	0.44
9:HB:154:LYS:HD3	9:HB:154:LYS:HA	1.68	0.44
9:HB:221:THR:HG23	9:HB:223:GLY:H	1.83	0.44
9:HB:322:SER:H	8:HC:221:ARG:HH21	1.64	0.44
8:HC:11:GLN:HB2	8:HC:74:VAL:HG11	1.99	0.44
9:HD:19:LYS:O	9:HD:22:GLU:HB2	2.17	0.44
8:HG:313:MET:HE3	8:HG:382:THR:HG22	2.00	0.44
9:HH:36:TYR:HE2	9:HH:44:LEU:HD22	1.82	0.44
8:HI:228:ASN:OD1	67:HI:501:GTP:N1	2.39	0.44
8:HM:50:ASN:O	8:HM:64:ARG:NH1	2.41	0.44
8:IK:7:ILE:HB	8:IK:137:ILE:HG23	2.00	0.44
8:IM:200:CYS:HA	8:IM:266:HIS:HB2	2.00	0.44
8:IO:209:ILE:HB	8:IO:227:LEU:HD22	1.99	0.44
9:JB:267:MET:HA	9:JB:268:PRO:HD3	1.83	0.44
8:JK:240:ALA:HA	8:JK:243:ARG:HH21	1.83	0.44
8:JK:414:GLU:HG2	8:JK:417:GLU:OE2	2.18	0.44
48:K:118:THR:HG23	48:K:120:LEU:N	2.31	0.44
9:KB:271:ALA:HB2	9:KB:293:MET:HG3	1.98	0.44
8:KC:269:LEU:HD13	8:KC:303:VAL:HB	1.99	0.44
9:KF:282:ARG:HD2	9:KF:288:GLU:OE1	2.17	0.44
8:KG:223:THR:HG22	8:KG:224:TYR:H	1.83	0.44
9:KH:257:MET:HA	9:KH:312:THR:HG21	1.99	0.44
8:KI:124:LYS:NZ	65:r:70:ASP:OD2	2.39	0.44
9:KN:27:GLU:OE1	9:KN:241:ARG:NH1	2.51	0.44
8:KO:153:LEU:HD23	8:KO:153:LEU:HA	1.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:L1:41:HIS:O	50:L1:41:HIS:ND1	2.48	0.44
50:L1:145:SER:O	60:e:69:ASN:ND2	2.51	0.44
8:LC:2:ARG:HH21	47:X:27:ARG:HD3	1.83	0.44
9:LJ:174:LYS:HE2	9:LJ:174:LYS:HB3	1.79	0.44
8:LK:195:LEU:HD12	8:LK:195:LEU:HA	1.89	0.44
8:LM:188:ILE:O	8:LM:191:THR:OG1	2.32	0.44
8:MC:66:VAL:HG11	8:MC:122:ILE:HD11	1.99	0.44
8:MC:206:ASN:OD1	67:MC:501:GTP:N2	2.51	0.44
9:MD:181:GLU:HG2	9:MD:182:PRO:HD3	2.00	0.44
8:MG:188:ILE:HG12	8:MG:391:LEU:HD11	2.00	0.44
8:MG:388:TRP:HB3	8:MG:425:LEU:HD21	1.99	0.44
8:MM:274:PRO:HG3	8:MM:374:ALA:HA	2.00	0.44
9:MN:128:ASP:OD1	9:MN:128:ASP:N	2.47	0.44
51:N:86:ILE:HG23	51:N:87:PHE:CD1	2.53	0.44
9:N0:26:ASP:OD1	9:N0:26:ASP:N	2.51	0.44
9:ND:133:PHE:O	9:ND:165:ASN:N	2.46	0.44
9:ND:418:LEU:HA	9:ND:421:GLU:OE1	2.18	0.44
9:NH:287:PRO:O	9:NH:291:GLN:HG2	2.18	0.44
8:NK:153:LEU:O	8:NK:157:LEU:HB2	2.17	0.44
8:NK:319:TYR:N	8:NK:354:GLY:O	2.48	0.44
8:OA:363:VAL:HG23	8:OA:366:GLY:HA3	1.99	0.44
9:OB:183:TYR:O	9:OB:187:LEU:HG	2.17	0.44
9:OB:325:GLU:H	9:OB:325:GLU:CD	2.26	0.44
8:OC:93:ILE:HD11	8:OC:121:ARG:HG3	2.00	0.44
8:OE:114:ILE:HD12	8:OE:117:LEU:HD13	1.99	0.44
8:OE:151:SER:HA	8:OE:154:MET:HE2	2.00	0.44
8:OG:48:SER:OG	8:OG:243:ARG:O	2.34	0.44
9:OH:87:PRO:HA	9:OH:90:PHE:HD2	1.83	0.44
8:OK:191:THR:HG23	8:OK:425:LEU:HD11	2.00	0.44
9:OL:67:ASP:OD1	9:OL:92:PHE:HB2	2.18	0.44
8:PE:155:GLU:HA	8:PE:197:HIS:ND1	2.32	0.44
9:PJ:161:ASP:OD1	9:PJ:161:ASP:N	2.39	0.44
8:PK:11:GLN:NE2	67:PK:501:GTP:H8	2.14	0.44
8:QA:71:GLU:N	8:QA:71:GLU:OE1	2.50	0.44
9:QF:143:THR:N	69:QF:501:GDP:O2B	2.50	0.44
9:QH:132:GLY:HA3	9:QH:163:ILE:HG12	1.99	0.44
8:QI:268:PRO:HA	8:QI:380:ASN:HA	1.99	0.44
8:QK:176:GLN:N	8:QK:176:GLN:OE1	2.50	0.44
8:QM:248:LEU:H	8:QM:355:ILE:HB	1.83	0.44
9:RB:55:THR:HG22	9:SB:282:ARG:O	2.18	0.44
9:RD:143:THR:O	9:RD:147:MET:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RE:187:SER:O	8:RE:191:THR:OG1	2.31	0.44
8:RE:237:SER:OG	8:RE:376:CYS:SG	2.73	0.44
9:RF:218:THR:OG1	9:RF:219:THR:N	2.50	0.44
8:RG:16:ILE:HA	8:RG:228:ASN:ND2	2.32	0.44
8:RG:64:ARG:HH22	8:RG:129:CYS:HB3	1.83	0.44
8:RG:164:LYS:HD3	8:RG:164:LYS:HA	1.77	0.44
9:RJ:204:ASN:HD21	69:RJ:501:GDP:H1'	1.82	0.44
9:RJ:383:GLU:HA	9:RJ:386:THR:HG22	2.00	0.44
9:RL:62:ARG:NH1	9:RL:127:CYS:SG	2.91	0.44
9:RL:90:PHE:HB3	9:RL:92:PHE:CE2	2.41	0.44
9:RL:116:VAL:HG11	9:RL:151:LEU:HD11	1.99	0.44
8:RM:8:HIS:HE2	8:RM:21:TRP:HE1	1.66	0.44
8:SC:226:ASN:OD1	8:SC:226:ASN:N	2.49	0.44
9:SD:246:LEU:HA	8:SE:11:GLN:HE22	1.83	0.44
8:SM:351:PHE:O	8:SM:352:LYS:HD3	2.18	0.44
8:TE:89:PRO:HD3	8:UE:283:HIS:ND1	2.33	0.44
9:TJ:289:LEU:HD13	9:TJ:363:MET:SD	2.57	0.44
8:TK:110:ILE:HA	8:TK:113:GLU:OE2	2.18	0.44
8:UE:182:VAL:HG22	8:UE:185:TYR:HB2	2.00	0.44
8:UG:292:THR:OG1	8:UG:319:TYR:OH	2.35	0.44
9:UJ:53:GLU:OE1	9:UJ:54:ALA:N	2.51	0.44
9:UN:380:ARG:HE	9:UN:380:ARG:HB3	1.64	0.44
9:VD:321:MET:CE	9:VD:326:VAL:HG21	2.48	0.44
8:VE:71:GLU:HG3	8:VE:73:THR:HG22	2.00	0.44
9:VF:292:GLN:HG2	9:VF:298:ASN:HD22	1.81	0.44
9:VL:217:LEU:HD23	9:VL:220:PRO:HB3	2.00	0.44
9:WD:19:LYS:HE3	9:WD:223:GLY:O	2.17	0.44
9:WH:3:GLU:HA	9:WH:49:VAL:HA	2.00	0.44
9:WH:410:GLU:OE2	9:WH:414:ASN:ND2	2.32	0.44
9:WJ:14:ASN:HB3	9:WJ:76:VAL:HG21	2.00	0.44
8:WK:76:ASP:OD2	59:c:86:ARG:NH1	2.39	0.44
57:YL:54:ARG:HH11	57:YL:54:ARG:HD3	1.62	0.44
59:c:130:LYS:HA	59:c:130:LYS:HD3	1.81	0.44
60:f:113:HIS:NE2	60:f:131:SER:OG	2.37	0.44
60:f:127:MET:SD	60:f:127:MET:N	2.91	0.44
58:q:111:ARG:NH1	58:q:114:GLU:OE1	2.50	0.44
3:x:79:ILE:HB	3:x:87:TYR:HB2	2.00	0.44
3:x:241:LYS:O	3:x:241:LYS:NZ	2.34	0.44
2:0G:67:LEU:HD23	2:0G:67:LEU:HA	1.83	0.44
2:0a:149:MET:HE3	2:0a:149:MET:HB3	1.74	0.44
2:0g:59:SER:O	2:0g:59:SER:OG	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0g:66:ILE:HD12	2:0g:66:ILE:HA	1.87	0.44
2:0k:2:MET:HE2	2:0k:2:MET:HB3	1.85	0.44
2:0k:81:CYS:HA	2:0k:84:PHE:HB2	2.00	0.44
3:2:65:ARG:HA	3:2:68:ARG:HH22	1.82	0.44
7:A8:185:TYR:CE1	7:A8:186:ARG:HG3	2.53	0.44
8:AC:98:ASP:OD1	8:AC:105:ARG:NH1	2.49	0.44
8:AC:165:SER:HA	8:AC:199:ASP:OD1	2.17	0.44
9:AD:315:ALA:HB1	9:AD:317:PHE:HE1	1.83	0.44
9:AH:1:MET:HE1	14:BY:223:ALA:HB1	2.00	0.44
9:AJ:94:GLN:N	9:AJ:94:GLN:OE1	2.51	0.44
9:AJ:131:GLN:NE2	9:AJ:249:ASP:OD2	2.47	0.44
9:AL:320:ARG:NH2	20:BT:235:ARG:O	2.51	0.44
10:AP:35:HIS:O	9:KH:416:ASN:ND2	2.51	0.44
10:AP:74:VAL:HG22	8:LG:155:GLU:HG3	2.00	0.44
10:AS:35:HIS:CE1	4:y:1398:ARG:HH12	2.36	0.44
11:AU:419:GLN:HG3	9:FJ:56:GLY:HA2	1.99	0.44
12:AV:124:LYS:HG2	12:AV:222:PHE:CZ	2.53	0.44
13:Aa:144:ILE:HG22	13:Aa:146:PHE:CE1	2.53	0.44
13:Ab:454:PRO:O	13:Ab:454:PRO:HG2	2.16	0.44
13:Ab:468:LYS:N	9:EJ:78:SER:OG	2.51	0.44
13:Ac:139:ASN:O	13:Ac:142:THR:OG1	2.36	0.44
13:Ac:324:LEU:HD12	13:Ac:324:LEU:HA	1.91	0.44
13:Ad:21:LEU:HD21	9:KD:77:ARG:HH21	1.83	0.44
14:Am:16:TYR:HB2	14:Am:39:THR:HG21	2.00	0.44
9:BF:267:MET:HE3	9:BF:267:MET:HB2	1.84	0.44
8:BG:115:VAL:HA	8:BG:118:VAL:HG12	2.00	0.44
8:BG:143:GLY:N	67:BG:501:GTP:O2A	2.51	0.44
8:BG:316:CYS:HA	8:BG:352:LYS:HB3	1.99	0.44
8:BG:320:ARG:HB2	8:BG:374:ALA:HB3	1.98	0.44
8:BK:104:ALA:HB2	8:BK:413:MET:HE2	1.98	0.44
8:BM:196:GLU:OE1	8:BM:196:GLU:N	2.43	0.44
19:BP:327:GLN:NE2	19:BP:331:ARG:HH22	2.16	0.44
19:BQ:322:ARG:NH1	19:BQ:323:GLU:OE1	2.51	0.44
19:BR:161:THR:OG1	19:BR:213:MET:SD	2.76	0.44
14:Bc:277:TYR:HE1	14:Bc:290:ILE:HG22	1.83	0.44
14:Be:255:LEU:HD23	14:Be:255:LEU:HA	1.85	0.44
23:Bg:80:ASN:HB3	23:Bg:82:TYR:CE1	2.53	0.44
21:Bk:318:ARG:NH2	47:Y:57:LEU:HA	2.33	0.44
25:Bl:77:UNK:O	2:CY:38:HIS:NE2	2.46	0.44
29:C1:355:ASP:OD2	28:C9:337:TRP:NE1	2.50	0.44
28:C2:483:THR:HG21	32:Cn:289:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:C4:182:GLU:OE1	28:C4:237:LEU:HD11	2.17	0.44
28:C7:395:VAL:HG21	28:C8:276:ASN:HA	2.00	0.44
8:CA:212:ILE:HD11	8:CA:300:ASN:HA	1.99	0.44
8:CA:240:ALA:HA	8:CA:243:ARG:HH21	1.82	0.44
9:CB:165:ASN:HD21	9:CB:250:LEU:HD13	1.82	0.44
8:CC:185:TYR:O	8:CC:188:ILE:HG12	2.18	0.44
8:CC:203:MET:HB3	8:CC:203:MET:HE3	1.70	0.44
9:CD:3:GLU:HB3	9:CD:62:ARG:HH22	1.83	0.44
8:CE:183:GLU:OE1	8:CE:183:GLU:N	2.45	0.44
8:CE:360:PRO:HG3	8:CE:374:ALA:HB2	1.99	0.44
9:CF:207:LEU:HD21	9:CF:300:MET:HE3	1.99	0.44
9:CF:215:LEU:HD21	9:CF:273:LEU:HD22	2.00	0.44
8:CG:53:PHE:O	8:CG:64:ARG:NH1	2.51	0.44
9:CH:45:GLU:CD	9:CH:45:GLU:H	2.25	0.44
9:CJ:41:ASP:OD2	48:K:43:GLN:NE2	2.49	0.44
8:CK:171:ILE:HA	8:CK:204:VAL:HG23	2.00	0.44
8:CM:103:TYR:HB2	8:CM:186:ASN:HB3	2.00	0.44
8:CM:319:TYR:HB3	8:CM:323:VAL:HG21	2.00	0.44
2:CT:16:TYR:HE1	2:CT:142:ILE:HB	1.83	0.44
2:CV:64:ARG:O	2:CV:68:LEU:HB2	2.18	0.44
2:CX:34:ARG:NE	2:CX:135:TYR:OH	2.43	0.44
2:CX:35:GLU:HB3	2:CX:40:LYS:NZ	2.33	0.44
2:Cf:111:LEU:HD13	2:Cf:137:GLY:C	2.43	0.44
2:Cj:66:ILE:HD12	2:Cj:69:MET:CE	2.48	0.44
2:Ck:73:ILE:HD12	2:Ck:73:ILE:HA	1.93	0.44
32:Cm:97:ARG:HD3	43:E2:77:TYR:CE2	2.52	0.44
32:Cn:80:LYS:HD2	32:Cn:80:LYS:HA	1.71	0.44
32:Cp:130:ASP:OD2	32:Cp:132:VAL:HG12	2.18	0.44
33:Ct:54:ILE:HD13	33:Ct:54:ILE:HA	1.87	0.44
33:Cu:355:LYS:HD2	33:Cu:355:LYS:HA	1.73	0.44
29:D5:288:LYS:HA	29:D5:288:LYS:HD3	1.89	0.44
29:D5:473:MET:HE2	29:D5:473:MET:HB2	1.77	0.44
9:DB:221:THR:OG1	9:DB:222:TYR:N	2.51	0.44
8:DC:322:ASP:OD2	8:DC:373:ARG:NH2	2.51	0.44
9:DD:284:LEU:HD13	9:DD:362:LYS:HD3	2.00	0.44
9:DH:394:PHE:HA	9:DH:397:TRP:CD1	2.53	0.44
8:DI:67:PHE:HB2	8:DI:92:LEU:HD22	1.98	0.44
8:DI:166:LYS:HE2	8:DI:166:LYS:HB2	1.76	0.44
9:DJ:24:ILE:HD12	9:DJ:241:ARG:HH12	1.83	0.44
8:DK:101:ASN:HB3	67:DK:501:GTP:PB	2.58	0.44
9:DL:249:ASP:OD1	9:DL:249:ASP:N	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DN:267:MET:HE1	9:DN:305:PRO:HD3	2.00	0.44
29:DV:326:ASN:O	29:DV:330:VAL:HG23	2.18	0.44
29:DW:385:ILE:HD11	29:DW:433:LEU:HB3	2.00	0.44
42:E:733:ARG:HH21	9:IB:39:ASP:N	2.16	0.44
43:E3:169:ARG:O	28:F4:121:ARG:NH2	2.41	0.44
43:E3:172:SER:HG	28:F4:118:GLU:CD	2.22	0.44
9:EB:318:ARG:HE	9:EB:358:PRO:HG3	1.82	0.44
9:ED:285:THR:HG1	9:ED:288:GLU:H	1.59	0.44
9:EF:272:PRO:HG3	9:EF:364:SER:HA	2.00	0.44
9:EH:240:LEU:HD11	9:EH:250:LEU:HD13	2.00	0.44
9:EL:73:MET:HB2	9:EL:73:MET:HE3	1.69	0.44
8:EM:231:ILE:O	8:EM:235:VAL:HG12	2.17	0.44
9:EN:33:THR:HG23	9:EN:35:THR:HG23	1.99	0.44
9:EN:321:MET:HE3	9:EN:363:MET:SD	2.57	0.44
9:EN:330:MET:SD	9:EN:330:MET:N	2.91	0.44
44:ES:64:TYR:HE1	44:EV:318:LEU:HG	1.83	0.44
44:EU:184:ARG:HH22	28:F4:291:ASP:HB3	1.83	0.44
44:EX:397:GLU:OE2	44:EZ:77:GLN:HG2	2.18	0.44
8:FC:392:ASP:HB3	8:FC:422:ARG:HH22	1.82	0.44
8:FE:202:PHE:HD1	8:FE:268:PRO:HG2	1.83	0.44
8:FG:102:ASN:HD22	8:FG:105:ARG:HG3	1.82	0.44
8:FG:239:THR:OG1	8:FG:243:ARG:NH1	2.51	0.44
8:FM:304:LYS:HD2	8:FM:304:LYS:HA	1.68	0.44
45:G:186:PRO:HG3	9:HL:37:HIS:CE1	2.53	0.44
8:GC:336:LYS:HE3	8:GC:336:LYS:HB2	1.73	0.44
9:GD:166:THR:O	9:GD:166:THR:OG1	2.33	0.44
8:HC:16:ILE:HD11	8:HC:171:ILE:HD11	2.00	0.44
9:HH:170:VAL:HG11	9:HH:377:LEU:HD21	1.99	0.44
8:HO:70:LEU:HD12	8:HO:99:ALA:HB2	1.99	0.44
8:II:103:TYR:CE2	8:II:148:GLY:HA2	2.52	0.44
8:IK:281:ALA:HA	8:IK:284:GLU:HG2	1.99	0.44
9:IL:131:GLN:HE21	9:IL:250:LEU:HB2	1.83	0.44
8:IM:9:VAL:HG12	8:IM:145:THR:HG22	2.00	0.44
9:IN:221:THR:H	9:IN:224:ASP:HB3	1.83	0.44
9:IN:236:VAL:HG12	9:IN:368:ILE:HD11	1.99	0.44
8:IO:169:PHE:HE1	8:IO:235:VAL:HG22	1.83	0.44
9:JB:73:MET:HA	9:JB:76:VAL:HG12	2.00	0.44
9:JD:87:PRO:HA	9:JD:90:PHE:HD2	1.82	0.44
9:JH:190:HIS:HD2	9:JH:414:ASN:HD22	1.66	0.44
9:JJ:336:LYS:HD3	9:JJ:336:LYS:HA	1.67	0.44
8:JM:14:VAL:HG22	8:JM:67:PHE:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JM:317:MET:SD	8:JM:377:MET:HE3	2.58	0.44
8:KE:254:GLU:HG2	9:KF:98:GLY:HA2	2.00	0.44
8:KG:169:PHE:CE2	8:KG:235:VAL:HG22	2.53	0.44
8:KG:317:MET:HE2	8:KG:319:TYR:CE1	2.53	0.44
9:KH:326:VAL:O	9:KH:330:MET:HG2	2.18	0.44
9:KL:219:THR:O	9:KL:219:THR:OG1	2.29	0.44
9:LD:121:ARG:NH1	9:LD:158:GLU:OE1	2.50	0.44
9:LH:252:LYS:HE2	8:LI:100:ALA:HA	2.00	0.44
9:LJ:245:GLN:OE1	8:LK:223:THR:OG1	2.35	0.44
8:LK:206:ASN:OD1	67:LK:501:GTP:O2'	2.31	0.44
8:LK:339:ARG:HH11	8:LK:339:ARG:HG3	1.81	0.44
9:MD:218:THR:HG23	9:MD:219:THR:HG23	1.99	0.44
9:MH:258:VAL:HG11	9:MH:264:HIS:HB3	2.00	0.44
9:MH:297:LYS:HB3	9:MH:297:LYS:HE3	1.80	0.44
8:NC:88:HIS:HA	8:OC:283:HIS:HD2	1.83	0.44
9:ND:7:LEU:HB2	9:ND:135:LEU:HD13	2.00	0.44
9:NH:113:VAL:HA	9:NH:116:VAL:HG22	2.00	0.44
9:NJ:22:GLU:HG3	9:NJ:81:PHE:CE2	2.53	0.44
9:NJ:163:ILE:HD12	9:NJ:250:LEU:HB2	1.99	0.44
9:NL:329:GLN:HA	9:NL:332:ASN:ND2	2.32	0.44
9:OB:54:ALA:HA	9:PB:283:ALA:HB2	2.00	0.44
9:OD:342:VAL:HG23	9:OD:345:ILE:HG22	1.99	0.44
9:OH:325:GLU:CD	9:OH:325:GLU:H	2.26	0.44
8:OI:138:PHE:HZ	8:OI:235:VAL:HG21	1.82	0.44
8:PC:261:PRO:HG3	8:PC:346:TRP:HH2	1.83	0.44
9:PJ:263:LEU:HD23	9:PJ:422:TYR:CE1	2.53	0.44
8:QA:79:ARG:O	8:QA:84:ARG:NE	2.43	0.44
8:QA:196:GLU:N	8:QA:196:GLU:OE1	2.50	0.44
8:QE:16:ILE:HG22	8:QE:228:ASN:HB3	1.98	0.44
9:QH:103:LYS:H	9:QH:103:LYS:HG2	1.64	0.44
9:QH:282:ARG:HD3	9:QH:282:ARG:HA	1.80	0.44
8:QI:312:TYR:HD1	8:QI:381:THR:HG23	1.82	0.44
9:QJ:117:LEU:HA	9:QJ:117:LEU:HD23	1.65	0.44
9:QJ:311:LEU:HD23	9:QJ:312:THR:HG23	1.99	0.44
8:QK:54:SER:OG	8:QK:55:GLU:N	2.50	0.44
9:QL:330:MET:SD	9:QL:331:LEU:N	2.91	0.44
8:RA:4:CYS:HB3	8:RA:52:PHE:HE1	1.82	0.44
8:RA:146:GLY:O	8:RA:150:ALA:CB	2.66	0.44
8:RC:188:ILE:HG21	8:RC:395:LEU:HD22	2.00	0.44
9:RD:324:LYS:HE3	9:RD:324:LYS:HB3	1.72	0.44
8:RE:230:LEU:HD11	8:RE:275:VAL:HG11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RF:166:THR:OG1	9:RF:198:GLU:O	2.33	0.44
8:RG:206:ASN:HD21	67:RG:501:GTP:HN22	1.66	0.44
9:RH:325:GLU:HA	9:RH:328:GLU:CG	2.44	0.44
9:RL:211:CYS:HA	9:RL:215:LEU:HB2	1.98	0.44
9:RL:344:TRP:H	9:RL:344:TRP:CD1	2.36	0.44
9:RL:406:MET:O	9:RL:409:THR:OG1	2.31	0.44
8:SA:250:VAL:HG11	8:SA:318:LEU:HD21	1.99	0.44
8:SA:275:VAL:HG13	8:SA:368:LEU:HD21	1.99	0.44
8:SC:47:ASP:OD1	8:SC:47:ASP:N	2.51	0.44
8:SE:70:LEU:HD13	8:SE:110:ILE:HD11	2.00	0.44
8:SI:88:HIS:HB3	8:SI:90:GLU:CD	2.43	0.44
9:TD:117:LEU:HD11	9:TD:154:LYS:HD3	2.00	0.44
9:TJ:290:THR:HG21	9:TJ:329:GLN:HB3	2.00	0.44
9:TL:112:LEU:HD12	9:TL:112:LEU:HA	1.87	0.44
9:UH:64:VAL:HG11	9:UH:120:VAL:HG22	2.00	0.44
8:UI:193:THR:HG23	8:UI:194:THR:HG23	1.99	0.44
8:UM:215:ARG:HG2	8:UM:216:ASN:OD1	2.18	0.44
8:VC:11:GLN:NE2	67:VC:501:GTP:O1B	2.38	0.44
8:VE:311:LYS:NZ	8:VE:436:GLY:O	2.38	0.44
9:VF:234:SER:OG	9:VF:241:ARG:NH2	2.51	0.44
9:VH:6:HIS:HE1	9:VH:233:MET:HE1	1.81	0.44
9:VH:187:LEU:HD11	9:VH:408:PHE:HE1	1.83	0.44
8:VK:185:TYR:HE2	8:VK:404:PHE:HB2	1.82	0.44
9:VL:11:GLN:OE1	9:VL:11:GLN:N	2.43	0.44
9:VN:100:ASN:ND2	9:VN:103:LYS:HD2	2.33	0.44
9:WB:318:ARG:HE	9:WB:358:PRO:HD3	1.83	0.44
8:WC:104:ALA:HB2	8:WC:408:TYR:HA	2.00	0.44
9:WJ:406:MET:HE2	9:WJ:406:MET:HB3	1.83	0.44
8:WK:2:ARG:HB3	8:WK:242:LEU:HD23	2.00	0.44
9:WL:278:SER:O	9:WL:278:SER:OG	2.26	0.44
9:WN:207:LEU:HD11	9:WN:228:LEU:HB2	2.00	0.44
47:X:358:LYS:HB3	47:X:358:LYS:HE3	1.68	0.44
56:XG:33:HIS:CD2	57:YG:204:ASN:HD21	2.36	0.44
57:YG:221:ILE:H	57:YG:221:ILE:HD12	1.83	0.44
57:YI:80:ASP:OD1	57:YI:80:ASP:N	2.50	0.44
60:e:212:MET:SD	60:e:212:MET:N	2.91	0.44
60:g:398:ASP:OD1	60:g:398:ASP:N	2.51	0.44
62:i:11:ARG:H	62:i:11:ARG:HG2	1.69	0.44
62:i:39:LEU:O	62:i:43:ASN:HB2	2.17	0.44
63:l:30:LEU:HD21	63:l:116:CYS:SG	2.57	0.44
63:l:148:PHE:HA	63:l:151:GLN:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:n:60:THR:HA	63:n:67:TYR:CE2	2.53	0.44
66:v:389:LEU:HD23	66:v:389:LEU:HA	1.84	0.44
3:x:82:CYS:O	3:x:85:LYS:HE3	2.18	0.44
4:z:1435:MET:HE2	4:z:1435:MET:HB2	1.86	0.44
2:0k:66:ILE:H	2:0k:66:ILE:HD12	1.82	0.44
6:A0:181:TYR:CE2	9:ID:291:GLN:HB2	2.53	0.44
7:A2:29:LYS:HD3	7:A2:30:TYR:CZ	2.53	0.44
7:A5:141:ALA:HA	8:RA:308:ARG:HD2	2.00	0.44
8:AC:274:PRO:HG3	8:AC:374:ALA:HA	2.00	0.44
8:AC:280:LYS:NZ	8:KE:90:GLU:OE2	2.46	0.44
9:AD:336:LYS:HZ1	57:YK:46:ALA:C	2.26	0.44
8:AG:122:ILE:HG21	8:AG:157:LEU:HD21	1.99	0.44
8:AM:69:ASP:OD1	8:AM:70:LEU:N	2.51	0.44
10:AP:7:ALA:H	9:KH:174:LYS:HE2	1.83	0.44
12:AV:130:ARG:HD2	12:AV:130:ARG:HA	1.80	0.44
12:AW:335:ARG:NH1	45:G:214:LYS:HZ1	2.16	0.44
13:Ab:645:LYS:HA	13:Ab:648:CYS:HB2	1.99	0.44
13:Ac:96:ASP:OD1	13:Ac:119:ARG:NH2	2.43	0.44
14:Al:20:TYR:HA	8:DE:79:ARG:NH1	2.32	0.44
7:Av:201:THR:OG1	7:Av:202:MET:N	2.51	0.44
17:B0:13:SER:OG	17:B0:16:SER:OG	2.32	0.44
14:B7:214:ILE:HD12	8:EK:80:THR:HG21	1.99	0.44
8:BA:229:ARG:HD3	8:BA:363:VAL:HG11	2.00	0.44
8:BG:2:ARG:HB3	8:BG:51:THR:HG22	2.00	0.44
8:BG:255:PHE:HE1	8:BG:378:LEU:HD12	1.83	0.44
9:BJ:246:LEU:HD21	8:BK:179:THR:HG21	2.00	0.44
19:BR:452:ILE:HD13	19:BR:452:ILE:HA	1.90	0.44
21:BV:267:ARG:NH2	8:LE:245:ASP:OD2	2.35	0.44
14:BZ:289:PHE:CD1	14:BZ:291:PRO:HD3	2.51	0.44
14:BZ:299:LEU:HD22	14:BZ:303:ASN:HB3	2.00	0.44
21:Bj:135:ILE:HD13	9:KF:22:GLU:OE2	2.18	0.44
26:Bq:124:GLY:HA2	33:Ct:171:ARG:HH12	1.83	0.44
5:C:162:LYS:NZ	60:g:162:GLY:O	2.49	0.44
28:C2:384:LYS:HG3	32:Cn:93:LEU:HD11	1.99	0.44
8:CG:199:ASP:OD1	8:CG:199:ASP:N	2.51	0.44
9:CJ:100:ASN:HD21	9:CJ:102:ALA:HB3	1.83	0.44
2:CT:16:TYR:CE1	2:CT:142:ILE:HB	2.53	0.44
2:CV:145:ILE:O	2:CV:149:MET:HG3	2.18	0.44
2:Cg:54:MET:HB2	2:Cg:67:LEU:HD23	1.99	0.44
32:Cm:98:LEU:HB3	32:Cm:154:LEU:HG	2.00	0.44
32:Cn:34:SER:OG	32:Cp:288:GLU:OE1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DC:329:ASN:HB3	9:DD:175:VAL:HG11	1.99	0.44
9:DD:164:MET:HE2	9:DD:164:MET:HB3	1.85	0.44
8:DE:368:LEU:HD23	8:DE:368:LEU:HA	1.88	0.44
9:DF:170:VAL:HG21	9:DF:377:LEU:HD11	2.00	0.44
9:DH:36:TYR:OH	9:DH:40:SER:O	2.36	0.44
9:DJ:205:GLU:HA	9:DJ:208:TYR:CD2	2.53	0.44
8:DK:234:ILE:HD13	8:DK:234:ILE:HA	1.85	0.44
9:DN:293:MET:SD	9:DN:367:PHE:HB2	2.57	0.44
42:E:745:THR:N	9:IB:355:ASP:OD2	2.51	0.44
43:E4:126:GLN:HB2	43:E4:133:ARG:HH21	1.81	0.44
8:EE:398:MET:HE1	8:EE:404:PHE:CE2	2.53	0.44
9:EJ:9:ALA:HB3	9:EJ:137:HIS:HB3	2.00	0.44
9:EL:189:VAL:HA	9:EL:193:VAL:HB	2.00	0.44
8:EM:107:HIS:CE1	8:EM:152:LEU:HB2	2.53	0.44
29:EP:239:ILE:HG12	29:EP:320:LEU:HD13	1.99	0.44
44:EW:30:ALA:O	44:EZ:192:ARG:NH1	2.48	0.44
44:EY:156:LEU:HD11	44:EY:176:LEU:HB3	2.00	0.44
9:FD:17:GLY:HA2	9:FD:20:PHE:HB3	2.00	0.44
8:FE:168:GLU:HB2	8:FE:201:ALA:HA	1.99	0.44
9:FJ:39:ASP:OD1	9:FJ:39:ASP:N	2.49	0.44
9:FJ:392:LYS:HD2	9:FJ:395:LEU:HG	1.99	0.44
8:GC:255:PHE:HZ	8:GC:318:LEU:HD11	1.82	0.44
8:GE:259:LEU:O	8:GE:380:ASN:ND2	2.51	0.44
8:GG:345:ASP:OD2	8:GG:346:TRP:N	2.50	0.44
8:GG:370:LYS:HE3	8:GG:370:LYS:HB2	1.73	0.44
9:GH:334:GLN:NE2	9:GH:348:ASN:OD1	2.50	0.44
8:GM:133:GLN:O	8:GM:165:SER:OG	2.32	0.44
9:GN:282:ARG:NH2	9:GN:288:GLU:OE1	2.50	0.44
9:HB:135:LEU:HB3	9:HB:166:THR:HA	2.00	0.44
9:HB:385:PHE:HZ	9:HB:408:PHE:HB3	1.83	0.44
8:HC:401:LYS:HD3	8:HC:401:LYS:HA	1.72	0.44
9:HF:52:ASN:HB3	9:HF:60:VAL:HG23	2.00	0.44
8:HI:155:GLU:HA	8:HI:197:HIS:CD2	2.53	0.44
9:ID:152:ILE:HG12	9:ID:164:MET:HE2	2.00	0.44
9:ID:252:LYS:HE3	8:IE:101:ASN:OD1	2.18	0.44
8:II:335:ILE:HD13	8:II:338:LYS:NZ	2.33	0.44
8:IK:60:LYS:NZ	8:IK:85:GLN:O	2.49	0.44
8:JC:296:PHE:CZ	8:JC:377:MET:HE1	2.53	0.44
8:JG:47:ASP:OD1	8:JG:47:ASP:N	2.50	0.44
9:JJ:307:HIS:O	9:JJ:426:GLN:NE2	2.50	0.44
9:JN:314:ALA:HB3	9:JN:368:ILE:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KC:175:PRO:HB3	8:KC:390:ARG:NH1	2.33	0.44
9:KD:392:LYS:HD3	9:KD:395:LEU:HD12	1.99	0.44
8:KE:141:PHE:HZ	8:KE:194:THR:HG21	1.83	0.44
8:KG:82:THR:HG23	8:KG:83:TYR:CD2	2.53	0.44
9:LD:139:LEU:HD12	9:LD:170:VAL:HG23	2.00	0.44
9:LF:337:ASN:HB3	9:LF:340:TYR:HD2	1.83	0.44
9:LH:178:THR:HB	9:LH:181:GLU:HB2	1.99	0.44
8:LK:9:VAL:HG13	8:LK:139:HIS:HB3	1.98	0.44
8:MI:346:TRP:HE1	9:MJ:391:ARG:HD3	1.83	0.44
9:MJ:1:MET:HG2	9:MJ:48:ASN:ND2	2.33	0.44
8:MM:2:ARG:N	8:MM:131:GLY:O	2.51	0.44
9:N0:69:GLU:OE1	9:N0:97:ALA:N	2.50	0.44
8:NC:215:ARG:NH2	8:NC:216:ASN:HB2	2.28	0.44
8:OA:71:GLU:HB2	8:OA:98:ASP:HB3	1.99	0.44
9:OB:22:GLU:HG2	9:OB:81:PHE:HD2	1.83	0.44
9:OD:101:TRP:CE2	9:OD:187:LEU:HB3	2.53	0.44
52:P:26:ARG:NH2	52:P:30:GLU:OE1	2.41	0.44
9:PB:330:MET:HE2	9:PB:349:VAL:HG11	2.00	0.44
8:PC:32:PRO:HG3	8:PC:83:TYR:HE1	1.83	0.44
8:PC:55:GLU:C	8:QC:285:GLN:HE22	2.26	0.44
9:PD:267:MET:CE	9:PD:299:MET:HE3	2.48	0.44
8:PE:1:MET:H2	8:PE:3:GLU:CD	2.24	0.44
8:PI:21:TRP:CH2	8:PI:63:PRO:HB3	2.53	0.44
8:PK:56:THR:HA	8:QK:285:GLN:OE1	2.18	0.44
9:QD:169:VAL:HA	9:QD:202:ILE:HB	2.00	0.44
8:QG:21:TRP:CE2	8:QG:65:ALA:HB2	2.52	0.44
9:QH:12:CYS:O	9:QH:16:ILE:HG22	2.18	0.44
9:QH:320:ARG:HD2	9:QH:320:ARG:HA	1.81	0.44
9:QH:331:LEU:HD23	9:QH:331:LEU:HA	1.88	0.44
8:QI:238:ILE:HD13	8:QI:238:ILE:HA	1.86	0.44
9:QJ:156:ARG:NH1	9:QJ:160:PRO:O	2.50	0.44
9:QJ:182:PRO:HD2	9:QJ:388:MET:HE1	1.99	0.44
9:QJ:182:PRO:O	9:QJ:186:THR:HG23	2.18	0.44
9:QL:164:MET:HB3	9:QL:197:ASP:H	1.83	0.44
8:RA:24:TYR:OH	8:RA:235:VAL:HG12	2.18	0.44
9:RB:51:TYR:O	9:RB:62:ARG:NH1	2.51	0.44
9:RB:312:THR:HA	9:RB:348:ASN:HB3	1.99	0.44
9:RD:145:SER:O	9:RD:149:THR:OG1	2.32	0.44
8:RE:56:THR:HG23	8:RE:58:ALA:H	1.83	0.44
8:RG:68:VAL:HG21	8:RG:118:VAL:HG22	2.00	0.44
9:RH:52:ASN:OD1	9:RH:62:ARG:NE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RH:236:VAL:HG22	9:RH:368:ILE:HD11	1.99	0.44
9:RJ:271:ALA:O	9:RJ:273:LEU:N	2.50	0.44
9:RL:36:TYR:OH	9:RL:40:SER:O	2.33	0.44
9:RL:62:ARG:HA	9:RL:123:GLU:OE1	2.18	0.44
54:S:123:MET:HE3	54:S:142:ARG:HG2	1.99	0.44
9:SB:320:ARG:NH1	9:SB:355:ASP:OD1	2.33	0.44
8:SC:2:ARG:O	8:SC:51:THR:OG1	2.24	0.44
9:SJ:116:VAL:HA	9:SJ:119:VAL:HG12	1.98	0.44
9:SL:67:ASP:OD1	9:SL:69:GLU:N	2.30	0.44
8:SM:175:PRO:HG3	8:SM:390:ARG:CZ	2.48	0.44
8:SM:180:ALA:HB3	8:SM:183:GLU:HG2	1.99	0.44
9:TH:12:CYS:HB2	69:TH:501:GDP:C8	2.53	0.44
8:TK:8:HIS:HD1	8:TK:17:GLY:HA3	1.83	0.44
9:UF:287:PRO:HG3	9:UF:329:GLN:NE2	2.33	0.44
8:UK:238:ILE:HG23	8:UK:239:THR:HG23	2.00	0.44
8:UM:9:VAL:HG12	8:UM:146:GLY:HA2	1.99	0.44
9:VF:1:MET:CE	9:VF:2:ARG:H	2.31	0.44
9:VH:203:ASP:OD1	9:VH:203:ASP:N	2.47	0.44
9:VH:395:LEU:HA	9:VH:398:TYR:HD2	1.83	0.44
8:VM:175:PRO:HB3	8:VM:390:ARG:NH1	2.33	0.44
8:WC:188:ILE:HG23	8:WC:189:LEU:HD12	2.00	0.44
8:WE:216:ASN:OD1	8:WE:216:ASN:N	2.51	0.44
9:WF:305:PRO:HD2	9:WF:306:ARG:NH1	2.33	0.44
9:WF:327:ASP:OD1	9:WF:327:ASP:N	2.51	0.44
8:WG:163:LYS:HA	8:WG:163:LYS:HD3	1.83	0.44
9:WL:118:ASP:OD2	57:YH:216:GLN:HG2	2.18	0.44
56:XH:22:LEU:HD21	56:XH:47:LEU:HD11	2.00	0.44
56:XM:120:THR:O	56:XM:120:THR:OG1	2.31	0.44
60:g:177:PHE:HZ	60:g:225:LEU:HD21	1.82	0.44
61:h:48:ILE:O	61:h:52:GLN:HG2	2.18	0.44
63:k:49:THR:HB	63:k:101:THR:HG23	2.00	0.44
4:y:1386:LEU:HD21	4:y:1422:LEU:HD22	1.99	0.44
2:0g:41:ILE:HB	2:0g:42:ARG:NH1	2.33	0.43
3:1:46:ARG:NH2	3:1:47:ARG:HG3	2.33	0.43
3:2:95:THR:O	3:2:144:SER:N	2.45	0.43
7:A2:39:VAL:HG22	7:A2:40:LYS:H	1.83	0.43
7:A7:9:THR:O	7:A7:9:THR:OG1	2.30	0.43
7:A8:176:LEU:HD21	8:SI:130:THR:HB	2.00	0.43
7:A9:69:ARG:HB2	8:TC:340:THR:HG21	2.00	0.43
9:AB:22:GLU:HG2	9:AB:81:PHE:CD1	2.53	0.43
8:AE:26:LEU:HD23	8:AE:26:LEU:HA	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AE:205:ASP:OD1	8:AE:206:ASN:N	2.51	0.43
9:AH:33:THR:O	9:AH:58:LYS:HE3	2.18	0.43
8:AM:186:ASN:OD1	8:AM:408:TYR:OH	2.30	0.43
11:AT:99:ASN:HD21	53:Q:112:THR:H	1.65	0.43
18:B5:23:GLU:H	18:B5:23:GLU:HG2	1.64	0.43
8:BE:266:HIS:CE1	8:BE:267:PHE:HE1	2.36	0.43
19:BP:227:LEU:HD23	19:BP:303:LEU:HD23	2.00	0.43
19:BP:394:ASP:O	19:BP:398:VAL:HB	2.17	0.43
19:BQ:476:GLN:HA	19:BQ:479:ARG:HG2	1.99	0.43
22:BW:79:PRO:HD2	22:BW:82:TYR:HD2	1.83	0.43
14:Bc:185:ASP:OD1	28:C2:88:THR:HG22	2.17	0.43
14:Bc:290:ILE:HG13	14:Bc:293:MET:HG2	2.00	0.43
27:Bs:307:LEU:HD22	8:HI:364:PRO:HB3	1.99	0.43
27:Bs:333:TYR:HB3	9:HH:276:ARG:NH2	2.33	0.43
28:C2:344:ASN:O	28:C2:348:THR:HG23	2.17	0.43
28:C5:471:ASP:HB3	32:Co:275:ARG:HH12	1.82	0.43
9:CD:48:ASN:N	48:J:111:TYR:OH	2.45	0.43
8:CE:319:TYR:HB2	8:CE:355:ILE:HD13	2.00	0.43
9:CF:152:ILE:HG12	9:CF:164:MET:HE2	2.01	0.43
8:CG:8:HIS:CE1	8:CG:138:PHE:HD1	2.36	0.43
9:CJ:139:LEU:HG	9:CJ:168:SER:HB2	1.99	0.43
9:CJ:219:THR:O	9:CJ:219:THR:OG1	2.25	0.43
9:CJ:343:GLU:N	9:CJ:343:GLU:OE2	2.50	0.43
8:CK:310:GLY:HA3	8:CK:383:ALA:HB2	1.99	0.43
9:CL:324:LYS:HD3	8:CM:222:PRO:HD2	1.99	0.43
2:Ck:91:THR:HG23	2:Ck:93:VAL:HG22	2.00	0.43
32:Cn:10:LYS:HD2	32:Cn:10:LYS:HA	1.85	0.43
33:Ct:319:GLU:O	33:Ct:322:THR:OG1	2.35	0.43
33:Cv:404:PHE:O	33:Cv:406:PRO:HD3	2.17	0.43
29:Cz:240:ASP:O	29:Cz:243:MET:HB2	2.18	0.43
29:Cz:309:HIS:O	29:Cz:313:MET:HG2	2.18	0.43
29:D1:232:MET:HE3	29:D1:331:LEU:HD23	2.00	0.43
8:DA:11:GLN:NE2	8:DA:15:GLN:OE1	2.51	0.43
9:DB:244:GLY:H	9:DB:247:ASN:HD21	1.66	0.43
9:DH:3:GLU:HG3	9:DH:48:ASN:O	2.18	0.43
8:DI:25:CYS:SG	8:DI:86:LEU:HD21	2.57	0.43
9:DJ:247:ASN:OD1	8:DK:73:THR:OG1	2.34	0.43
9:DL:276:ARG:NH1	47:Y:283:ASP:OD1	2.51	0.43
29:DX:212:ASP:O	29:DX:349:ARG:NH2	2.51	0.43
42:E:779:ARG:NE	42:E:783:ASP:HB3	2.32	0.43
42:E:780:ARG:HH21	8:HC:2:ARG:HH22	1.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:E2:26:LEU:HD23	43:E2:26:LEU:HA	1.88	0.43
9:EB:233:MET:HG2	9:EB:233:MET:H	1.69	0.43
8:EC:147:SER:OG	8:EC:190:THR:OG1	2.16	0.43
9:ED:237:THR:HG22	9:ED:250:LEU:HD11	2.00	0.43
9:EF:117:LEU:HA	9:EF:120:VAL:HG12	2.00	0.43
8:EG:138:PHE:CD1	8:EG:169:PHE:HB2	2.53	0.43
9:EL:167:PHE:CZ	9:EL:233:MET:HB3	2.53	0.43
9:EL:385:PHE:HE2	9:EL:412:GLU:HG2	1.83	0.43
8:EM:402:ARG:HD3	8:EM:405:VAL:HG21	2.00	0.43
44:EU:140:ARG:HD2	44:EU:446:TYR:CE2	2.53	0.43
35:Ee:200:ARG:NE	9:LH:209:ASP:OD1	2.50	0.43
9:FB:9:ALA:HA	9:FB:66:VAL:HB	2.00	0.43
8:FE:5:ILE:HD12	8:FE:135:PHE:HE1	1.83	0.43
8:FE:313:MET:HG2	8:FE:346:TRP:CZ2	2.51	0.43
9:FH:67:ASP:OD2	9:FH:72:THR:OG1	2.25	0.43
8:FI:2:ARG:O	8:FI:51:THR:OG1	2.35	0.43
8:FI:237:SER:HB3	8:FI:376:CYS:SG	2.58	0.43
9:FL:310:TYR:N	9:FL:340:TYR:O	2.49	0.43
9:GB:191:GLN:O	9:GB:195:ASN:ND2	2.49	0.43
8:GE:272:TYR:HD2	8:GE:275:VAL:HG13	1.82	0.43
9:GH:117:LEU:HA	9:GH:120:VAL:HG12	2.00	0.43
8:GI:242:LEU:HD11	8:GI:252:LEU:HD13	2.00	0.43
9:GJ:270:PHE:O	9:GJ:298:ASN:ND2	2.47	0.43
8:GK:392:ASP:HB3	8:GK:422:ARG:NH1	2.32	0.43
9:HD:105:HIS:CD2	9:HD:150:LEU:HB2	2.52	0.43
8:HG:33:ASP:O	8:HG:60:LYS:NZ	2.49	0.43
9:HH:412:GLU:O	9:HH:416:ASN:ND2	2.50	0.43
8:HK:209:ILE:HG22	8:HK:227:LEU:HD22	1.98	0.43
8:HM:40:LYS:HA	8:HM:40:LYS:HE3	1.99	0.43
8:HM:342:GLN:OE1	8:HM:343:PHE:N	2.51	0.43
8:HO:212:ILE:HD11	8:HO:300:ASN:HA	2.00	0.43
8:IE:67:PHE:HB2	8:IE:92:LEU:HD23	2.00	0.43
8:II:392:ASP:OD2	8:II:422:ARG:NH1	2.42	0.43
8:IK:154:MET:HG3	8:IK:194:THR:HG22	1.99	0.43
9:IN:61:PRO:HD3	9:IN:84:ILE:HG12	2.00	0.43
9:JH:73:MET:HE3	9:JH:90:PHE:HD2	1.83	0.43
9:JH:240:LEU:HA	9:JH:240:LEU:HD23	1.75	0.43
8:JM:428:LEU:HD12	8:JM:428:LEU:HA	1.90	0.43
9:KF:184:ASN:OD1	9:KF:398:TYR:OH	2.28	0.43
9:KF:309:ARG:NH2	9:KF:343:GLU:OE1	2.51	0.43
9:KL:68:LEU:HD23	9:KL:112:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KN:147:MET:HE2	9:KN:147:MET:HB3	1.85	0.43
8:KO:150:ALA:O	8:KO:154:MET:HG2	2.18	0.43
8:LE:123:ARG:HA	8:LE:123:ARG:HD3	1.90	0.43
9:LH:112:LEU:HD22	9:LH:147:MET:HE1	1.99	0.43
8:LM:121:ARG:HH21	8:LM:124:LYS:NZ	2.17	0.43
8:LM:223:THR:HG23	8:LM:225:THR:H	1.82	0.43
8:ME:1:MET:SD	8:ME:1:MET:N	2.91	0.43
9:MF:204:ASN:N	9:MF:204:ASN:HD22	2.16	0.43
9:MH:358:PRO:HB2	9:MH:361:LEU:HD12	2.00	0.43
9:MJ:128:ASP:N	9:MJ:128:ASP:OD1	2.51	0.43
9:MJ:184:ASN:O	9:MJ:188:SER:HB3	2.17	0.43
9:N0:362:LYS:HA	9:N0:362:LYS:HD3	1.90	0.43
9:N0:375:GLN:O	9:N0:379:LYS:HG3	2.18	0.43
8:NG:160:ASP:OD1	8:NG:160:ASP:N	2.48	0.43
9:NH:95:SER:OG	9:NH:96:GLY:N	2.50	0.43
9:O0:344:TRP:HE3	8:OA:401:LYS:HE3	1.83	0.43
9:OB:237:THR:O	9:OB:241:ARG:NH1	2.51	0.43
8:OI:79:ARG:O	8:OI:84:ARG:NE	2.50	0.43
9:OJ:3:GLU:CD	9:OJ:3:GLU:H	2.25	0.43
8:OK:260:VAL:HG12	8:OK:266:HIS:HA	1.99	0.43
8:PA:250:VAL:HA	8:PA:254:GLU:OE2	2.17	0.43
9:PD:178:THR:HG22	9:PD:180:VAL:H	1.83	0.43
9:PD:379:LYS:HA	9:PD:379:LYS:HD2	1.76	0.43
9:PH:1:MET:H3	9:PH:1:MET:HE3	1.82	0.43
9:PH:258:VAL:HG23	8:PI:407:TRP:HH2	1.83	0.43
8:PI:274:PRO:HG2	8:PI:374:ALA:HA	2.00	0.43
8:PM:204:VAL:HG12	8:PM:302:MET:HB3	2.00	0.43
9:QB:19:LYS:HB3	9:QB:226:ASN:ND2	2.33	0.43
8:QC:320:ARG:HB3	8:QC:374:ALA:HB3	1.99	0.43
9:QF:116:VAL:HG11	9:QF:151:LEU:HD21	2.00	0.43
9:QH:324:LYS:O	9:QH:328:GLU:CB	2.66	0.43
8:QI:324:VAL:HG23	8:QI:327:ASP:HB2	1.99	0.43
9:RB:147:MET:HE2	9:RB:147:MET:HB3	1.57	0.43
8:RC:141:PHE:HD2	8:RC:172:TYR:HA	1.82	0.43
8:RE:192:HIS:CD2	8:RE:424:ASP:HB3	2.53	0.43
8:SA:332:ILE:HD12	8:SA:351:PHE:CD2	2.53	0.43
8:SC:105:ARG:HA	8:SC:109:THR:HG23	2.00	0.43
8:SC:394:LYS:HE3	8:SC:394:LYS:HB2	1.78	0.43
9:SF:33:THR:O	9:SF:58:LYS:NZ	2.31	0.43
9:SF:217:LEU:HD13	9:SF:220:PRO:HB3	2.00	0.43
8:SI:71:GLU:HB2	8:SI:98:ASP:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SK:371:VAL:HG22	8:SK:373:ARG:H	1.84	0.43
8:SM:118:VAL:O	8:SM:122:ILE:HG12	2.18	0.43
8:TC:203:MET:HB2	8:TC:203:MET:HE2	1.72	0.43
8:TE:349:THR:HG23	8:TE:350:GLY:H	1.83	0.43
9:TF:331:LEU:HD12	9:TF:331:LEU:HA	1.85	0.43
8:TG:288:VAL:HG13	8:TG:319:TYR:HE2	1.83	0.43
9:TJ:344:TRP:H	9:TJ:344:TRP:CD1	2.35	0.43
9:TL:10:GLY:HA2	9:TL:143:THR:HG23	1.99	0.43
9:TL:336:LYS:HE2	9:TL:336:LYS:HB3	1.83	0.43
8:UE:346:TRP:CZ3	8:UE:347:CYS:HB2	2.53	0.43
8:UM:185:TYR:HE2	8:UM:404:PHE:HB2	1.82	0.43
9:UN:130:LEU:HB3	9:UN:162:ARG:HE	1.83	0.43
8:VG:320:ARG:HA	8:VG:356:ASN:HB3	1.99	0.43
9:VH:1:MET:HB3	9:VH:2:ARG:H	1.58	0.43
9:VJ:259:PRO:HD3	8:VK:404:PHE:HE1	1.82	0.43
9:VL:40:SER:HA	60:g:505:ASN:HD21	1.83	0.43
9:VN:265:PHE:CE2	9:VN:418:LEU:HD11	2.53	0.43
9:WB:229:VAL:O	9:WB:233:MET:HG3	2.18	0.43
8:WE:345:ASP:OD1	8:WE:345:ASP:N	2.49	0.43
9:WF:278:SER:O	9:WF:278:SER:OG	2.36	0.43
47:X:244:ARG:HA	47:X:265:HIS:HB3	1.99	0.43
56:XG:8:SER:OG	56:XG:9:GLY:N	2.46	0.43
56:XH:34:ILE:HB	57:YH:208:GLY:HA2	2.00	0.43
56:XJ:101:ARG:HD3	56:XJ:144:TYR:CE1	2.52	0.43
47:Y:313:LEU:HA	47:Y:313:LEU:HD23	1.70	0.43
57:YL:242:ILE:HD12	57:YL:242:ILE:HA	1.85	0.43
60:e:35:CYS:N	60:e:300:THR:HG21	2.33	0.43
60:e:50:ILE:HB	60:e:63:LEU:HD12	1.99	0.43
60:f:135:PRO:HA	60:f:163:ASN:HD21	1.82	0.43
60:f:164:ALA:HA	60:f:181:GLY:H	1.83	0.43
62:i:217:ILE:HD11	62:i:266:LEU:HD12	2.00	0.43
2:0A:60:ASN:ND2	2:0A:63:ASP:OD2	2.52	0.43
2:0A:149:MET:HE2	2:0A:149:MET:HB3	1.77	0.43
2:0g:127:SER:OG	8:PA:84:ARG:NH2	2.47	0.43
2:0k:102:LYS:HB2	2:0k:102:LYS:HE2	1.80	0.43
6:A0:179:PRO:HG2	9:ID:329:GLN:NE2	2.31	0.43
6:A0:180:CYS:HA	9:ID:332:ASN:OD1	2.18	0.43
8:AC:9:VAL:HG12	8:AC:68:VAL:HG13	2.00	0.43
8:AC:69:ASP:CG	8:AC:71:GLU:H	2.26	0.43
9:AF:107:THR:OG1	9:AF:108:GLU:N	2.51	0.43
9:AL:350:LYS:NZ	9:AL:351:THR:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AM:169:PHE:CZ	8:AM:235:VAL:HG22	2.54	0.43
10:AP:98:LYS:HE2	10:AP:98:LYS:HB2	1.75	0.43
11:AT:134:ILE:HD11	27:Bs:324:LEU:HB2	1.99	0.43
12:AV:213:CYS:O	12:AV:217:GLU:HG2	2.18	0.43
12:AW:122:LYS:HB3	12:AW:122:LYS:HE2	1.83	0.43
12:AW:171:GLU:OE2	12:AW:174:ARG:NH2	2.51	0.43
13:Ab:24:GLU:HB3	13:Ab:25:ASP:H	1.71	0.43
13:Ab:268:ARG:NH2	9:CJ:80:PRO:HD3	2.33	0.43
13:Ab:588:ILE:HD13	13:Ab:588:ILE:HA	1.89	0.43
14:Am:35:TYR:HB3	8:EI:218:ASP:HB3	1.99	0.43
14:Ao:63:LYS:HE3	14:Ao:63:LYS:HB3	1.86	0.43
7:Av:145:PRO:O	8:OK:215:ARG:NH2	2.23	0.43
8:BA:288:VAL:HA	8:BA:291:ILE:HG22	1.99	0.43
9:BB:102:ALA:HB1	9:BB:401:GLU:HB2	2.00	0.43
8:BG:103:TYR:H	8:BG:408:TYR:HE1	1.66	0.43
9:BH:52:ASN:OD1	9:BH:62:ARG:NH2	2.51	0.43
8:BI:115:VAL:HA	8:BI:118:VAL:HG12	1.99	0.43
19:BR:324:GLN:O	19:BR:328:ILE:HG22	2.18	0.43
20:BT:130:LYS:HD2	20:BT:130:LYS:HA	1.74	0.43
21:BV:295:LYS:HA	21:BV:295:LYS:HD2	1.68	0.43
21:Bk:362:ASN:ND2	9:KJ:284:LEU:HB2	2.32	0.43
27:Br:128:LEU:HD13	27:Bs:456:HIS:HB3	2.00	0.43
27:Bs:210:LEU:H	27:Bs:210:LEU:HG	1.65	0.43
5:C:164:GLY:N	9:WL:217:LEU:HD11	2.29	0.43
8:CA:79:ARG:NH1	8:CA:94:THR:HG21	2.33	0.43
8:CC:88:HIS:CE1	8:CC:90:GLU:HB3	2.53	0.43
8:CC:223:THR:HG23	8:CC:225:THR:H	1.84	0.43
9:CF:11:GLN:HA	9:CF:72:THR:HG21	2.00	0.43
8:CG:19:ALA:HB1	8:CG:229:ARG:HG3	1.99	0.43
8:CG:339:ARG:H	8:CG:339:ARG:HG2	1.56	0.43
8:CI:150:ALA:O	8:CI:154:MET:HG2	2.19	0.43
9:CJ:31:ASP:OD1	9:CJ:31:ASP:N	2.34	0.43
2:CT:93:VAL:O	2:CT:97:LEU:HB2	2.18	0.43
2:CV:33:CYS:O	2:CV:34:ARG:HD3	2.17	0.43
30:CW:292:GLU:OE2	9:JF:277:GLY:N	2.45	0.43
2:CX:142:ILE:HG22	2:CX:146:LEU:HD13	2.00	0.43
2:CY:34:ARG:HH12	2:CY:40:LYS:HD2	1.82	0.43
2:Ca:142:ILE:H	2:Ca:142:ILE:HG13	1.66	0.43
2:Ce:106:SER:O	2:Ce:109:ASN:ND2	2.51	0.43
2:Cg:11:SER:O	2:Cg:14:GLN:NE2	2.51	0.43
2:Ci:19:PHE:HZ	2:Ci:26:PHE:CE2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Cm:12:LEU:HB2	32:Cm:15:GLU:HG3	2.01	0.43
32:Co:122:ARG:HB2	32:Co:127:LEU:HD13	1.99	0.43
33:Cq:364:ASP:OD1	44:ES:351:LYS:NZ	2.51	0.43
33:Cq:413:ARG:O	44:ES:400:GLN:NE2	2.47	0.43
33:Cs:92:LEU:HD23	33:Cs:162:LEU:HG	1.99	0.43
29:D4:229:GLN:O	29:D4:233:ARG:HG2	2.18	0.43
9:DH:154:LYS:HE2	9:DH:154:LYS:HB2	1.76	0.43
9:DL:16:ILE:HD13	9:DL:16:ILE:HA	1.92	0.43
8:DM:211:ASP:HB3	8:DM:214:ARG:HH22	1.83	0.43
29:DU:467:ILE:HG12	29:DU:471:LYS:HD3	2.00	0.43
35:Da:145:PHE:HB3	35:Da:158:SER:HB3	2.00	0.43
9:EB:21:TRP:CZ3	9:EB:61:PRO:HB3	2.53	0.43
9:EB:392:LYS:HE3	9:EB:395:LEU:HG	2.00	0.43
8:EC:56:THR:HG22	8:EC:58:ALA:H	1.82	0.43
9:ED:143:THR:N	69:ED:501:GDP:O2B	2.49	0.43
9:ED:255:VAL:HG21	8:EE:102:ASN:HD21	1.83	0.43
8:EE:250:VAL:HG23	8:EE:254:GLU:HB2	2.00	0.43
9:EF:380:ARG:HA	9:EF:383:GLU:HG3	2.00	0.43
9:EJ:122:LYS:NZ	9:FJ:295:ASP:OD1	2.46	0.43
8:EM:130:THR:OG1	8:EM:131:GLY:N	2.50	0.43
29:EO:379:MET:HE3	29:EO:379:MET:HB3	1.87	0.43
29:EP:477:LYS:CD	44:EW:115:SER:HB2	2.48	0.43
44:EX:313:ASP:OD2	44:EX:317:LYS:HD2	2.17	0.43
44:EX:356:ARG:O	44:EX:360:ARG:HG3	2.18	0.43
8:FC:168:GLU:HG2	8:FC:201:ALA:HA	1.99	0.43
9:FD:216:LYS:HD3	9:FD:216:LYS:HA	1.80	0.43
9:FF:202:ILE:HD11	9:FF:268:PRO:HG2	1.99	0.43
8:FG:36:MET:HE3	8:FG:36:MET:HB3	1.80	0.43
8:FI:102:ASN:HA	8:FI:408:TYR:HE1	1.83	0.43
9:FJ:117:LEU:HD23	9:FJ:117:LEU:HA	1.85	0.43
9:FJ:181:GLU:HG2	9:FJ:182:PRO:HD3	2.00	0.43
9:GD:326:VAL:O	9:GD:330:MET:HG2	2.18	0.43
8:GI:66:VAL:HA	8:GI:91:GLN:HB3	2.01	0.43
9:GL:49:VAL:HG11	9:GL:240:LEU:HD13	1.99	0.43
8:GM:108:TYR:HB2	8:GM:411:GLU:OE1	2.18	0.43
9:HF:252:LYS:O	9:HF:256:ASN:ND2	2.51	0.43
9:HH:31:ASP:OD1	9:HH:32:PRO:HD2	2.18	0.43
9:HL:30:ILE:HD11	9:HL:47:ILE:HD11	2.00	0.43
8:IC:11:GLN:HA	8:IC:14:VAL:HG22	1.99	0.43
8:IC:101:ASN:O	8:IC:186:ASN:ND2	2.51	0.43
9:ID:363:MET:HE2	9:ID:363:MET:HB3	1.93	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IF:406:MET:HE3	9:IF:406:MET:HB3	1.84	0.43
9:IJ:105:HIS:CD2	9:IJ:150:LEU:HB2	2.53	0.43
9:IJ:136:THR:HG22	9:IJ:167:PHE:HB2	1.99	0.43
9:IJ:190:HIS:HA	9:IJ:414:ASN:HD21	1.83	0.43
8:IK:118:VAL:HG11	8:IK:153:LEU:HD21	2.01	0.43
9:JB:337:ASN:OD1	9:JB:337:ASN:N	2.47	0.43
9:JD:311:LEU:HD12	9:JD:311:LEU:HA	1.86	0.43
8:JE:141:PHE:O	8:JE:147:SER:OG	2.35	0.43
8:JG:285:GLN:O	8:JG:287:SER:N	2.48	0.43
9:JH:299:MET:HE2	9:JH:299:MET:HB2	1.94	0.43
8:JM:254:GLU:HG3	8:JM:352:LYS:HE2	2.00	0.43
9:KB:246:LEU:HD21	8:KC:179:THR:HG21	1.99	0.43
9:KF:287:PRO:HA	9:KF:290:THR:HG22	1.99	0.43
8:LE:326:LYS:HE2	9:LF:219:THR:HA	2.00	0.43
8:LM:423:GLU:H	8:LM:423:GLU:HG2	1.67	0.43
8:ME:98:ASP:O	8:ME:105:ARG:NH1	2.50	0.43
9:MH:152:ILE:HG22	9:MH:195:ASN:HB3	2.00	0.43
9:MH:164:MET:HE2	9:MH:164:MET:HB2	1.85	0.43
9:MJ:415:MET:HE2	9:MJ:415:MET:HB2	1.82	0.43
51:N:3:HIS:O	51:N:3:HIS:ND1	2.50	0.43
9:NF:49:VAL:HG11	9:NF:241:ARG:HG2	2.00	0.43
8:NI:109:THR:OG1	8:NI:110:ILE:N	2.51	0.43
8:NI:132:LEU:HD12	8:NI:132:LEU:HA	1.85	0.43
9:NJ:51:TYR:HA	9:NJ:61:PRO:HA	2.00	0.43
8:NK:308:ARG:NH2	8:NK:339:ARG:O	2.51	0.43
9:O0:311:LEU:O	9:O0:348:ASN:ND2	2.51	0.43
8:OA:16:ILE:HD11	8:OA:171:ILE:HD11	1.99	0.43
8:OA:66:VAL:HG11	8:OA:118:VAL:HG23	1.99	0.43
8:OA:252:LEU:HA	8:OA:255:PHE:HE1	1.83	0.43
8:OA:359:PRO:HB3	8:OA:372:GLN:HA	2.00	0.43
8:OE:1:MET:H2	8:OE:131:GLY:H	1.65	0.43
8:OE:4:CYS:SG	8:OE:5:ILE:N	2.91	0.43
8:OE:11:GLN:NE2	8:OE:71:GLU:OE1	2.51	0.43
8:OG:370:LYS:HZ3	54:S:168:MET:C	2.26	0.43
8:OK:139:HIS:HE2	8:OK:141:PHE:HE1	1.67	0.43
8:PG:66:VAL:HG11	8:PG:118:VAL:HG23	1.99	0.43
9:PH:45:GLU:HG2	9:PH:46:ARG:HG2	1.99	0.43
9:PH:267:MET:HE2	9:PH:299:MET:HE3	2.00	0.43
9:PH:327:ASP:OD1	9:PH:327:ASP:N	2.51	0.43
8:PI:22:GLU:OE2	8:PI:229:ARG:NH1	2.51	0.43
9:PJ:299:MET:SD	9:PJ:299:MET:N	2.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PM:67:PHE:HB2	8:PM:92:LEU:HD13	2.00	0.43
8:QC:192:HIS:ND1	8:QC:424:ASP:OD2	2.36	0.43
9:QD:80:PRO:HB2	9:QD:81:PHE:H	1.60	0.43
9:QJ:252:LYS:HG3	8:QK:101:ASN:HB2	2.00	0.43
8:QK:136:LEU:HD23	8:QK:136:LEU:HA	1.84	0.43
8:QK:245:ASP:OD2	8:QK:246:GLY:N	2.51	0.43
9:QL:2:ARG:HH12	8:QM:72:PRO:HD2	1.84	0.43
8:QM:124:LYS:HE2	8:QM:124:LYS:HB3	1.82	0.43
8:QM:242:LEU:HD22	8:QM:252:LEU:HD22	1.99	0.43
9:RB:282:ARG:CZ	9:RB:282:ARG:HA	2.48	0.43
9:RD:299:MET:HE2	9:RD:299:MET:HB2	1.84	0.43
9:RJ:148:GLY:HA2	9:RJ:151:LEU:HD12	2.01	0.43
9:RJ:362:LYS:HE3	9:RJ:362:LYS:HB3	1.93	0.43
9:RL:36:TYR:CE1	9:RL:44:LEU:HG	2.53	0.43
8:SC:2:ARG:HG2	8:SC:133:GLN:HG2	2.00	0.43
8:SC:27:GLU:OE2	8:SC:236:SER:OG	2.34	0.43
9:SD:151:LEU:HD12	9:SD:152:ILE:HD13	2.00	0.43
9:SF:334:GLN:HE21	9:SF:334:GLN:HB3	1.63	0.43
8:SG:36:MET:HE3	8:SG:61:HIS:CE1	2.53	0.43
8:SK:349:THR:OG1	8:SK:350:GLY:N	2.51	0.43
8:SM:240:ALA:O	8:SM:356:ASN:ND2	2.50	0.43
54:T:138:ASN:O	54:T:142:ARG:HG3	2.17	0.43
9:TB:31:ASP:OD1	9:TB:37:HIS:NE2	2.51	0.43
9:TD:205:GLU:HA	9:TD:208:TYR:HB2	2.01	0.43
8:TE:277:SER:OG	8:TE:367:ASP:OD2	2.28	0.43
8:TG:218:ASP:OD1	8:TG:218:ASP:N	2.51	0.43
9:TH:86:ARG:HG2	9:TH:88:ASP:OD1	2.17	0.43
9:TJ:347:ASN:HD22	8:TK:178:SER:HB2	1.83	0.43
9:TL:27:GLU:OE1	9:TL:359:ARG:HG2	2.18	0.43
9:TL:395:LEU:O	9:TL:399:THR:N	2.40	0.43
9:TL:416:ASN:O	9:TL:420:SER:OG	2.34	0.43
9:UD:55:THR:HG22	9:VD:283:ALA:HA	2.01	0.43
9:UD:237:THR:HG1	9:UD:241:ARG:HH12	1.57	0.43
8:UM:122:ILE:HD13	8:UM:122:ILE:HA	1.89	0.43
8:UM:339:ARG:O	8:UM:342:GLN:NE2	2.51	0.43
9:VB:3:GLU:HG3	9:VB:127:CYS:HB2	2.00	0.43
9:VB:298:ASN:O	9:VB:298:ASN:ND2	2.51	0.43
8:VK:316:CYS:HA	8:VK:352:LYS:HB3	1.98	0.43
9:VL:323:MET:SD	9:VL:353:VAL:HG21	2.59	0.43
9:VN:232:THR:HG21	9:VN:300:MET:HE2	1.98	0.43
9:WB:246:LEU:HD12	9:WB:246:LEU:HA	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WG:312:TYR:HE2	8:WG:341:ILE:HD12	1.82	0.43
8:WI:71:GLU:HG2	8:WI:73:THR:HG22	2.00	0.43
8:WK:280:LYS:HB2	8:WK:280:LYS:HE3	1.78	0.43
60:e:310:VAL:HG13	60:e:318:TYR:HB2	2.00	0.43
62:i:76:ASP:OD1	62:i:88:GLY:HA3	2.18	0.43
2:0A:23:GLN:HE21	2:0A:139:VAL:HG11	1.83	0.43
2:0C:13:GLU:O	2:0C:17:LYS:HG2	2.19	0.43
2:0a:59:SER:HA	2:0a:64:ARG:HB2	2.00	0.43
2:0a:114:LEU:C	2:0a:115:ARG:HD3	2.43	0.43
3:1:145:PRO:O	3:1:145:PRO:HD2	2.17	0.43
6:A0:224:ARG:HA	6:A0:224:ARG:HD3	1.86	0.43
7:A1:19:ILE:HB	7:A1:22:LEU:HG	2.00	0.43
7:A1:37:GLY:N	9:PJ:328:GLU:OE1	2.52	0.43
7:A1:69:ARG:HA	8:PI:340:THR:HG21	2.00	0.43
7:A8:233:ALA:HB3	9:SF:128:ASP:HB2	1.99	0.43
8:AA:9:VAL:HG21	8:AA:150:ALA:HB2	1.99	0.43
9:AH:432:GLU:OE2	8:AI:401:LYS:NZ	2.50	0.43
9:AJ:315:ALA:HB1	9:AJ:317:PHE:HE1	1.83	0.43
9:AJ:378:PHE:CD1	9:AJ:415:MET:HE2	2.53	0.43
8:AK:326:LYS:NZ	9:AL:218:THR:O	2.49	0.43
9:AL:116:VAL:HA	9:AL:119:VAL:HG12	2.00	0.43
8:AM:327:ASP:OD2	8:AM:327:ASP:N	2.50	0.43
10:AP:32:ILE:HG23	9:KH:383:GLU:HG3	1.99	0.43
13:Aa:653:LEU:HD12	13:Aa:654:PRO:HD2	2.00	0.43
13:Ad:425:LYS:N	13:Ad:507:PHE:O	2.43	0.43
7:Au:205:ARG:O	7:Au:206:VAL:HG23	2.18	0.43
9:BB:270:PHE:HD2	9:BB:273:LEU:HG	1.83	0.43
8:BK:399:TYR:O	8:BK:402:ARG:NH1	2.50	0.43
9:BL:293:MET:HE2	9:BL:293:MET:HB3	1.77	0.43
19:BO:154:LEU:O	19:BO:158:ARG:HG3	2.19	0.43
19:BP:442:LYS:HD3	19:BR:28:LEU:HD11	2.01	0.43
14:Bc:268:SER:OG	14:Bc:269:THR:N	2.50	0.43
14:Be:298:ALA:HA	8:CA:226:ASN:HD21	1.83	0.43
27:Bs:200:LYS:HE2	27:Bs:200:LYS:HB2	1.63	0.43
18:Bz:161:ILE:HD12	8:KG:422:ARG:HG2	2.00	0.43
28:C3:320:LYS:HB3	28:C3:320:LYS:HE3	1.86	0.43
28:C8:430:THR:HG23	28:DO:131:LYS:HZ3	1.83	0.43
9:CB:268:PRO:HD2	9:CB:301:ALA:HB2	1.99	0.43
9:CF:100:ASN:ND2	9:CF:397:TRP:HB3	2.33	0.43
9:CF:327:ASP:HB3	8:CG:177:VAL:HG21	2.01	0.43
9:CH:3:GLU:OE1	9:CH:62:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:154:MET:HA	8:CI:157:LEU:HD12	1.99	0.43
9:CL:294:PHE:HZ	9:CL:313:VAL:HG11	1.83	0.43
2:CU:79:LYS:HD3	2:CU:79:LYS:HA	1.62	0.43
2:Cd:94:THR:O	2:Cd:98:LEU:HG	2.19	0.43
2:Ci:2:MET:O	2:Ci:6:LYS:NZ	2.47	0.43
33:Ct:419:LEU:HB2	44:EV:69:ALA:HB2	2.00	0.43
34:D:100:ASP:OD1	8:GK:225:THR:OG1	2.28	0.43
29:D0:393:LYS:HD3	29:D0:393:LYS:HA	1.60	0.43
29:D3:177:LYS:HE2	29:D3:240:ASP:OD1	2.19	0.43
9:DB:24:ILE:HA	9:DB:27:GLU:HG2	1.99	0.43
9:DB:200:TYR:HA	9:DB:266:PHE:HB2	2.00	0.43
8:DC:420:GLU:O	8:DC:424:ASP:HB2	2.19	0.43
9:DD:174:LYS:HE2	9:DD:174:LYS:HB3	1.70	0.43
9:DF:25:SER:O	9:DF:30:ILE:N	2.47	0.43
9:DF:151:LEU:HD13	9:DF:151:LEU:HA	1.78	0.43
9:DH:12:CYS:O	9:DH:16:ILE:HG22	2.19	0.43
9:DL:244:GLY:HA2	9:DL:355:ASP:OD1	2.18	0.43
8:DM:255:PHE:HA	8:DM:258:ASN:HD22	1.83	0.43
29:DR:438:ARG:NH2	44:EX:382:GLU:OE2	2.51	0.43
43:E3:168:VAL:HG21	28:F4:122:VAL:HG22	2.00	0.43
8:EC:68:VAL:HG21	8:EC:118:VAL:HG21	2.00	0.43
8:EC:88:HIS:HB2	8:EC:91:GLN:HG2	2.00	0.43
8:EC:220:GLU:N	8:EC:220:GLU:OE2	2.50	0.43
9:EF:113:VAL:HG23	9:EF:147:MET:HE2	2.01	0.43
9:EF:330:MET:HE3	9:EF:349:VAL:HG11	2.01	0.43
9:EH:73:MET:HE1	9:EH:92:PHE:HA	2.00	0.43
44:EW:263:GLU:O	44:EW:267:ARG:HG3	2.18	0.43
28:F3:92:THR:HG23	28:F3:93:ARG:HG2	2.00	0.43
28:F3:192:LEU:HB2	28:F3:226:ILE:HG21	2.00	0.43
28:F3:462:LYS:HA	28:F3:462:LYS:HD3	1.76	0.43
9:FB:318:ARG:HH11	9:FB:358:PRO:HG3	1.83	0.43
8:FC:271:THR:HB	8:FC:377:MET:HB3	1.99	0.43
8:FC:277:SER:OG	8:FC:278:ALA:N	2.50	0.43
8:FC:367:ASP:OD1	8:FC:367:ASP:N	2.46	0.43
8:FG:98:ASP:OD1	8:FG:99:ALA:N	2.48	0.43
9:FJ:205:GLU:HA	9:FJ:208:TYR:HD2	1.84	0.43
9:GB:347:ASN:ND2	8:GC:178:SER:HB3	2.33	0.43
9:GL:128:ASP:OD1	9:GL:129:CYS:N	2.50	0.43
8:GM:388:TRP:HB2	8:GM:429:GLU:OE1	2.18	0.43
9:GN:101:TRP:NE1	9:GN:145:SER:O	2.50	0.43
9:HD:34:GLY:O	9:HD:59:TYR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HG:3:GLU:OE2	8:HG:130:THR:N	2.46	0.43
8:HG:68:VAL:HG23	8:HG:93:ILE:HB	1.99	0.43
8:HI:67:PHE:O	8:HI:93:ILE:N	2.51	0.43
9:HJ:207:LEU:HB3	9:HJ:225:LEU:HD13	2.00	0.43
9:HJ:260:PHE:CZ	9:HJ:425:TYR:HE2	2.36	0.43
9:HL:167:PHE:CE1	9:HL:233:MET:HG2	2.53	0.43
8:HO:128:LEU:H	8:HO:128:LEU:HD12	1.82	0.43
8:HO:182:VAL:HG22	8:HO:185:TYR:HB2	2.00	0.43
8:IC:315:CYS:SG	8:IC:377:MET:HE3	2.58	0.43
9:IH:36:TYR:OH	9:IH:40:SER:O	2.34	0.43
9:IJ:73:MET:HE2	9:IJ:90:PHE:CD1	2.53	0.43
8:IK:79:ARG:HG2	8:IK:92:LEU:HD13	2.00	0.43
8:JC:322:ASP:OD2	8:JC:373:ARG:NH1	2.51	0.43
9:JD:25:SER:HB3	9:JD:30:ILE:HB	2.00	0.43
9:JH:54:ALA:HA	9:MH:283:ALA:HB2	2.00	0.43
9:JJ:2:ARG:H	9:JJ:2:ARG:HG2	1.70	0.43
9:JJ:97:ALA:HA	9:JJ:103:LYS:HD2	1.99	0.43
8:JK:47:ASP:HB3	61:h:42:ARG:HD2	2.00	0.43
9:JL:152:ILE:HG23	9:JL:164:MET:HE2	1.99	0.43
8:JM:267:PHE:HB3	8:JM:384:ILE:HD13	2.00	0.43
9:KB:346:PRO:HD2	8:KC:398:MET:HE3	1.99	0.43
8:KG:274:PRO:HG3	8:KG:374:ALA:HA	2.00	0.43
9:KJ:344:TRP:CG	8:KK:401:LYS:HZ1	2.36	0.43
9:KJ:344:TRP:HA	8:KK:397:LEU:HD22	2.00	0.43
9:KJ:363:MET:HE3	9:KJ:363:MET:HB2	1.69	0.43
9:KL:107:THR:OG1	9:KL:108:GLU:N	2.52	0.43
9:KL:238:THR:HG21	9:KL:318:ARG:HD2	2.00	0.43
9:LD:286:VAL:HG11	9:LD:326:VAL:HG22	2.01	0.43
9:LF:431:GLU:OE2	9:LF:431:GLU:N	2.51	0.43
8:LM:402:ARG:HB3	8:LM:405:VAL:HG11	2.00	0.43
9:MB:170:VAL:HG21	9:MB:377:LEU:HD11	1.99	0.43
9:MD:103:LYS:HB3	9:MD:108:GLU:HG2	2.00	0.43
9:MD:294:PHE:CE2	9:MD:333:VAL:HG11	2.54	0.43
9:MF:350:LYS:HD2	9:MF:351:THR:N	2.33	0.43
9:ML:3:GLU:HA	9:ML:49:VAL:HA	2.00	0.43
9:N0:101:TRP:H	9:N0:398:TYR:HE1	1.66	0.43
9:N0:323:MET:HE3	9:N0:323:MET:HB3	1.82	0.43
9:NB:222:TYR:HA	9:NB:225:LEU:HB2	1.99	0.43
9:NH:67:ASP:OD1	9:NH:73:MET:HE3	2.17	0.43
9:NH:272:PRO:HG3	9:NH:364:SER:HA	1.99	0.43
9:O0:47:ILE:HG22	9:O0:51:TYR:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OC:258:ASN:OD1	9:OD:179:VAL:HG22	2.18	0.43
8:OG:188:ILE:HD12	8:OG:425:LEU:HG	2.00	0.43
8:OI:116:ASP:OD1	8:OI:117:LEU:N	2.52	0.43
8:PC:91:GLN:NE2	8:PC:121:ARG:HE	2.16	0.43
8:PE:277:SER:OG	8:PE:278:ALA:N	2.52	0.43
8:PG:217:LEU:HD12	8:PG:217:LEU:HA	1.87	0.43
8:PK:262:TYR:HB2	8:PK:265:ILE:HG12	2.00	0.43
8:PM:143:GLY:O	8:PM:147:SER:OG	2.31	0.43
9:QB:66:VAL:HA	9:QB:91:VAL:HG23	2.00	0.43
9:QF:116:VAL:HA	9:QF:119:VAL:HG12	2.00	0.43
9:QF:309:ARG:NH2	9:QF:339:SER:O	2.50	0.43
8:QG:70:LEU:HG	8:QG:145:THR:OG1	2.18	0.43
9:QJ:327:ASP:OD1	9:QJ:327:ASP:N	2.51	0.43
9:QL:380:ARG:CZ	9:QL:380:ARG:HB2	2.47	0.43
8:QM:264:ARG:HA	8:QM:264:ARG:HD2	1.81	0.43
8:RC:335:ILE:HD11	8:RC:351:PHE:HZ	1.83	0.43
9:RD:330:MET:SD	9:RD:349:VAL:HG11	2.58	0.43
8:RE:291:ILE:HD13	8:RE:375:VAL:HG13	2.01	0.43
8:RG:153:LEU:O	8:RG:157:LEU:HB2	2.19	0.43
9:RL:294:PHE:CZ	9:RL:313:VAL:HG11	2.53	0.43
8:SC:231:ILE:O	8:SC:235:VAL:HG12	2.18	0.43
9:SH:117:LEU:HA	9:SH:120:VAL:HG12	2.00	0.43
8:SI:141:PHE:O	8:SI:187:SER:OG	2.37	0.43
9:SJ:150:LEU:O	9:SJ:154:LYS:HG2	2.18	0.43
9:SL:178:THR:HG22	9:SL:180:VAL:H	1.82	0.43
9:TB:203:ASP:OD1	9:TB:205:GLU:N	2.49	0.43
8:TG:105:ARG:HA	8:TG:109:THR:HG23	2.00	0.43
8:TI:346:TRP:CD1	9:TJ:391:ARG:HG3	2.53	0.43
8:TK:175:PRO:HB3	8:TK:390:ARG:CZ	2.48	0.43
9:TL:35:THR:OG1	46:o:250:ARG:NH2	2.51	0.43
8:UC:304:LYS:HD2	8:UC:304:LYS:HA	1.83	0.43
9:UD:207:LEU:HD21	9:UD:229:VAL:HG23	2.01	0.43
9:UF:257:MET:HB3	9:UF:266:PHE:CZ	2.53	0.43
9:UJ:206:ALA:HB2	9:UJ:302:ALA:HB2	2.00	0.43
9:UN:257:MET:HB3	9:UN:266:PHE:HZ	1.83	0.43
9:UN:297:LYS:HD3	9:UN:297:LYS:HA	1.63	0.43
9:VD:9:ALA:HB1	9:VD:144:GLY:HA2	2.00	0.43
8:VE:231:ILE:O	8:VE:235:VAL:HG13	2.18	0.43
9:VL:322:SER:HB3	9:VL:325:GLU:OE2	2.18	0.43
9:VN:183:TYR:HE2	9:VN:394:PHE:HB2	1.83	0.43
9:WB:100:ASN:HD22	9:WB:103:LYS:NZ	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WC:216:ASN:HD22	8:WC:275:VAL:HG23	1.83	0.43
8:WE:110:ILE:HD12	8:WE:110:ILE:HA	1.85	0.43
8:WE:238:ILE:HD13	8:WE:238:ILE:HA	1.87	0.43
9:WF:322:SER:HB2	8:WG:221:ARG:HB3	1.99	0.43
8:WG:205:ASP:OD2	8:WG:208:ALA:N	2.47	0.43
8:WK:70:LEU:HA	8:WK:95:GLY:HA3	1.99	0.43
8:WM:221:ARG:HH12	65:s:149:SER:HA	1.83	0.43
47:X:449:ILE:HD13	47:X:472:VAL:HG22	2.00	0.43
57:YG:197:LEU:HD12	57:YG:197:LEU:HA	1.87	0.43
57:YI:99:GLU:OE1	57:YI:102:LYS:NZ	2.43	0.43
57:YL:154:LYS:HD3	57:YL:192:GLN:O	2.18	0.43
59:b:343:LYS:HA	59:b:346:MET:HE2	1.99	0.43
58:q:73:LYS:HA	58:q:73:LYS:HD3	1.86	0.43
2:0c:80:LEU:HD12	2:0c:83:HIS:HE2	1.83	0.43
2:0g:54:MET:HA	2:0g:58:CYS:HB3	2.00	0.43
7:A4:234:PRO:C	9:RH:332:ASN:HD21	2.26	0.43
8:AA:70:LEU:HA	8:AA:95:GLY:HA3	2.01	0.43
8:AG:119:LEU:HD13	8:AG:119:LEU:HA	1.91	0.43
8:AG:200:CYS:HA	8:AG:266:HIS:HB2	2.00	0.43
9:AH:38:GLY:O	14:BY:256:ARG:NH2	2.50	0.43
9:AJ:272:PRO:HG3	9:AJ:364:SER:HA	2.01	0.43
8:AM:189:LEU:O	8:AM:193:THR:HG23	2.19	0.43
11:AT:64:THR:O	11:AT:68:GLN:HG2	2.17	0.43
11:AU:292:LEU:HA	11:AU:295:LYS:HE3	1.99	0.43
13:Aa:144:ILE:HD12	13:Aa:144:ILE:HG23	1.74	0.43
14:Ao:185:ASP:OD1	14:Ao:185:ASP:N	2.50	0.43
16:At:280:ASP:OD1	16:At:280:ASP:N	2.49	0.43
7:Aw:54:ARG:HE	9:ND:122:LYS:HB2	1.83	0.43
17:B2:209:ARG:NH1	44:ES:284:CYS:SG	2.91	0.43
8:BA:195:LEU:HD11	8:BA:428:LEU:HD22	2.00	0.43
9:BF:86:ARG:HA	9:CF:281:TYR:CD2	2.53	0.43
9:BH:137:HIS:HE1	9:BH:166:THR:HB	1.82	0.43
8:BK:25:CYS:HB2	8:BK:30:ILE:O	2.18	0.43
8:BK:96:LYS:HD3	8:BK:96:LYS:HA	1.69	0.43
8:BK:124:LYS:O	8:BK:124:LYS:NZ	2.46	0.43
9:BL:219:THR:H	47:Y:140:ASN:HD22	1.66	0.43
19:BP:390:ARG:HG3	19:BP:391:GLU:OE1	2.19	0.43
19:BQ:371:MET:HA	19:BQ:374:THR:HG22	1.99	0.43
19:BQ:470:PRO:O	8:MC:163:LYS:NZ	2.41	0.43
22:BX:10:GLN:NE2	22:BX:11:SER:O	2.43	0.43
24:Bh:91:ARG:HH21	8:GG:1:MET:HE2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Bs:395:ALA:HB1	27:Bs:399:ARG:HH12	1.84	0.43
18:By:96:ASP:N	18:By:96:ASP:OD1	2.50	0.43
28:C0:382:ILE:O	28:C0:386:ILE:HG22	2.18	0.43
28:C2:478:ARG:HH22	32:Cn:279:ALA:C	2.27	0.43
28:C5:429:ASP:OD2	38:Df:114:HIS:ND1	2.51	0.43
28:C9:361:ILE:HD13	28:C9:458:ASP:HB3	2.00	0.43
9:CB:36:TYR:CZ	9:CB:38:GLY:HA3	2.52	0.43
9:CB:379:LYS:HA	9:CB:379:LYS:HD2	1.64	0.43
9:CD:347:ASN:OD1	9:CD:347:ASN:N	2.51	0.43
8:CE:124:LYS:HA	8:CE:124:LYS:HD3	1.71	0.43
8:CG:360:PRO:HG3	8:CG:374:ALA:HB2	2.00	0.43
9:CH:21:TRP:O	9:CH:25:SER:OG	2.34	0.43
9:CJ:326:VAL:HG22	9:CJ:330:MET:HE3	2.01	0.43
14:CO:20:TYR:HD1	8:DG:79:ARG:HG3	1.84	0.43
2:CT:117:LYS:HD3	2:CT:117:LYS:HA	1.74	0.43
2:Cf:10:ARG:O	2:Cf:14:GLN:HG2	2.19	0.43
2:Cf:121:ASP:OD1	2:Cf:124:ASN:ND2	2.35	0.43
2:Cj:121:ASP:OD1	2:Cj:121:ASP:N	2.51	0.43
2:Ck:9:LEU:HA	2:Ck:12:VAL:HG12	1.99	0.43
33:Cr:396:LYS:HB3	33:Cr:396:LYS:HE2	1.80	0.43
33:Ct:100:GLU:OE1	44:EU:161:ARG:NE	2.52	0.43
33:Cu:95:MET:HE2	33:Cu:95:MET:HB2	1.84	0.43
33:Cx:210:ASN:OD1	33:Cx:210:ASN:N	2.52	0.43
29:D8:388:LYS:NZ	29:D9:131:ASP:OD1	2.52	0.43
9:DD:7:LEU:HB2	9:DD:135:LEU:HD13	1.99	0.43
9:DD:267:MET:HA	9:DD:268:PRO:HD3	1.87	0.43
9:DD:389:PHE:HE1	9:DD:395:LEU:HD21	1.83	0.43
9:DH:54:ALA:HA	9:EH:283:ALA:HB2	2.00	0.43
9:DJ:238:THR:OG1	9:DJ:239:CYS:N	2.52	0.43
8:DM:371:VAL:HG22	8:DM:373:ARG:H	1.83	0.43
29:DR:195:LEU:HD12	29:DR:199:TYR:CZ	2.53	0.43
29:DS:203:LYS:H	29:DS:203:LYS:HG3	1.67	0.43
29:DU:331:LEU:HD12	29:DU:331:LEU:HA	1.85	0.43
29:DW:122:ASP:OD1	29:DW:122:ASP:N	2.41	0.43
37:De:254:MET:HA	37:De:257:GLN:HB2	2.00	0.43
40:Dm:112:SER:HB2	40:Dm:114:MET:HE3	2.00	0.43
43:E3:178:ARG:HA	43:E3:178:ARG:HD2	1.78	0.43
9:EB:350:LYS:HE3	9:EB:350:LYS:HB3	1.85	0.43
8:EE:209:ILE:HA	8:EE:212:ILE:HG12	2.00	0.43
8:EI:42:ILE:HD12	8:EI:42:ILE:HA	1.88	0.43
8:EK:52:PHE:CZ	8:EK:239:THR:HG21	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EL:252:LYS:HZ3	8:EM:100:ALA:HA	1.82	0.43
9:EN:313:VAL:HG13	9:EN:349:VAL:HA	2.00	0.43
44:ES:41:LEU:HD23	44:ES:41:LEU:HA	1.90	0.43
28:F2:474:MET:HE3	28:F2:474:MET:HB3	1.87	0.43
8:FC:217:LEU:HD21	8:FC:367:ASP:HB2	2.00	0.43
8:FC:272:TYR:CD2	8:FC:274:PRO:HD2	2.53	0.43
8:FC:422:ARG:HA	8:FC:422:ARG:HD2	1.81	0.43
8:FE:258:ASN:HD22	8:FE:352:LYS:NZ	2.17	0.43
9:FF:293:MET:HE2	9:FF:293:MET:HB2	1.83	0.43
8:FI:241:SER:OG	8:FI:250:VAL:O	2.30	0.43
8:FK:128:LEU:HD12	8:FK:128:LEU:HA	1.87	0.43
8:FK:329:ASN:OD1	9:FL:174:LYS:NZ	2.51	0.43
8:GI:53:PHE:O	8:GI:64:ARG:NH1	2.52	0.43
9:GL:86:ARG:HG2	9:GL:88:ASP:H	1.84	0.43
9:HD:248:ALA:HA	9:HD:252:LYS:CE	2.49	0.43
9:HN:244:GLY:HA3	9:HN:354:CYS:HA	2.00	0.43
8:IE:71:GLU:HA	8:IE:72:PRO:HD3	1.86	0.43
8:IG:113:GLU:HG2	8:IG:114:ILE:HG23	2.00	0.43
8:II:60:LYS:NZ	8:II:85:GLN:O	2.50	0.43
9:IJ:109:GLY:N	3:x:68:ARG:HH22	2.16	0.43
9:IJ:121:ARG:O	9:IJ:125:GLU:HG2	2.19	0.43
9:IN:325:GLU:O	9:IN:329:GLN:HB2	2.18	0.43
8:IO:27:GLU:OE2	8:IO:28:HIS:ND1	2.51	0.43
9:JB:31:ASP:OD1	9:JB:35:THR:N	2.52	0.43
8:JC:301:GLN:N	8:JC:301:GLN:OE1	2.51	0.43
9:JD:7:LEU:HD23	9:JD:64:VAL:HB	2.00	0.43
8:JE:250:VAL:HG22	8:JE:352:LYS:HE3	2.00	0.43
9:JF:180:VAL:O	9:JF:184:ASN:ND2	2.52	0.43
8:JK:426:ALA:HA	8:JK:429:GLU:CD	2.44	0.43
9:JL:1:MET:O	9:JL:2:ARG:HD3	2.18	0.43
9:JN:374:ILE:H	9:JN:374:ILE:HG12	1.54	0.43
8:KC:239:THR:HG23	8:KC:243:ARG:HH12	1.83	0.43
9:KF:198:GLU:OE2	9:KF:198:GLU:N	2.51	0.43
8:KG:308:ARG:HG2	8:KG:340:THR:HG23	1.99	0.43
8:LC:265:ILE:HG21	8:LC:313:MET:HE1	2.00	0.43
8:LC:317:MET:HE2	8:LC:317:MET:HB3	1.89	0.43
9:LD:290:THR:HG21	9:LD:329:GLN:HB3	1.99	0.43
8:LG:239:THR:O	8:LG:243:ARG:NH1	2.52	0.43
9:LL:154:LYS:HD3	9:LL:154:LYS:HA	1.74	0.43
8:LM:52:PHE:HZ	8:LM:239:THR:HG21	1.82	0.43
9:MD:86:ARG:HG3	9:MD:88:ASP:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MK:29:GLY:HA3	8:MK:40:LYS:HE2	2.00	0.43
8:MK:385:ALA:HB2	8:MK:432:TYR:HB3	2.00	0.43
9:N0:271:ALA:O	9:N0:273:LEU:N	2.50	0.43
8:NA:154:MET:HA	8:NA:154:MET:HE3	2.00	0.43
9:NJ:262:ARG:HH22	9:NJ:417:ASP:HB2	1.82	0.43
9:NJ:414:ASN:HA	9:NJ:417:ASP:OD2	2.18	0.43
9:NL:6:HIS:HB3	9:NL:63:ALA:HA	2.00	0.43
9:O0:1:MET:SD	9:O0:2:ARG:HG2	2.57	0.43
9:OF:91:VAL:HG21	9:OF:116:VAL:HG12	1.99	0.43
9:OF:107:THR:OG1	9:OF:401:GLU:OE1	2.37	0.43
9:OF:218:THR:HG23	9:OF:219:THR:HG23	2.01	0.43
8:OG:204:VAL:HG13	8:OG:209:ILE:HD11	2.00	0.43
9:OH:26:ASP:OD2	9:OH:27:GLU:N	2.51	0.43
9:OL:187:LEU:HD21	9:OL:408:PHE:HE1	1.83	0.43
52:P:49:GLU:O	52:P:51:LEU:N	2.51	0.43
9:PD:4:ILE:HG22	9:PD:131:GLN:HB3	1.99	0.43
9:PF:318:ARG:CZ	9:PF:358:PRO:HG3	2.48	0.43
9:PH:134:GLN:HE22	9:PH:233:MET:HE2	1.84	0.43
8:PI:310:GLY:HA3	8:PI:383:ALA:HB2	2.00	0.43
8:PK:207:GLU:HG2	8:PK:304:LYS:HD2	1.99	0.43
8:PM:181:VAL:HG13	8:PM:182:VAL:HG13	2.00	0.43
8:QA:292:THR:HA	8:QA:295:CYS:SG	2.59	0.43
9:QB:152:ILE:O	9:QB:156:ARG:HG2	2.17	0.43
8:QC:258:ASN:ND2	9:QD:178:THR:HG23	2.33	0.43
9:QD:323:MET:HE3	9:QD:323:MET:HB3	1.94	0.43
8:QG:230:LEU:HD12	8:QG:230:LEU:HA	1.84	0.43
8:QI:9:VAL:HG11	8:QI:150:ALA:HB2	2.00	0.43
8:QI:203:MET:HE2	8:QI:267:PHE:CD1	2.53	0.43
54:R:119:ASN:OD1	54:R:119:ASN:N	2.52	0.43
54:R:228:LYS:HD3	54:R:228:LYS:HA	1.88	0.43
9:RD:134:GLN:NE2	9:RD:233:MET:SD	2.89	0.43
8:RE:49:PHE:HB2	8:RE:53:PHE:HD2	1.83	0.43
8:RE:115:VAL:HG11	8:RE:152:LEU:HD21	2.00	0.43
8:RE:186:ASN:O	8:RE:190:THR:OG1	2.32	0.43
8:RI:144:GLY:N	67:RI:501:GTP:O2G	2.52	0.43
8:RI:273:ALA:HB1	8:RI:294:ALA:HB3	1.99	0.43
8:RK:414:GLU:OE1	8:RK:416:GLY:N	2.51	0.43
9:SB:16:ILE:HG21	9:SB:136:THR:HG21	1.99	0.43
9:SB:404:ASP:OD1	9:SB:404:ASP:N	2.45	0.43
8:SC:143:GLY:O	8:SC:147:SER:OG	2.33	0.43
8:SC:188:ILE:HD11	8:SC:391:LEU:HD22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SE:332:ILE:HD13	8:SE:332:ILE:HA	1.85	0.43
9:SH:268:PRO:HD2	9:SH:300:MET:HG3	2.00	0.43
9:TB:253:LEU:H	9:TB:253:LEU:HD12	1.84	0.43
9:TD:336:LYS:HD2	9:TD:336:LYS:HA	1.82	0.43
8:TG:362:VAL:HG21	8:TG:370:LYS:HG2	1.99	0.43
9:TH:344:TRP:HZ3	8:TI:403:ALA:HB2	1.82	0.43
8:TI:352:LYS:HB2	8:TI:352:LYS:HE2	1.87	0.43
9:TJ:256:ASN:HD22	8:TK:181:VAL:HG22	1.83	0.43
8:TK:258:ASN:HD21	9:TL:179:VAL:H	1.66	0.43
8:TM:419:SER:O	8:TM:423:GLU:HG3	2.18	0.43
9:UB:21:TRP:O	9:UB:25:SER:OG	2.24	0.43
9:UB:271:ALA:HB2	9:UB:293:MET:SD	2.59	0.43
8:UC:402:ARG:HA	8:UC:402:ARG:HD3	1.88	0.43
8:UK:114:ILE:HG13	55:W:155:ALA:HB2	2.00	0.43
8:UK:287:SER:N	8:UK:290:GLU:OE2	2.41	0.43
8:UM:213:CYS:HA	8:UM:217:LEU:HB2	1.99	0.43
9:UN:206:ALA:O	9:UN:210:ILE:HG22	2.18	0.43
8:VC:244:PHE:HB2	8:VC:356:ASN:HD21	1.83	0.43
9:VD:152:ILE:HG12	9:VD:164:MET:HE2	2.00	0.43
8:VG:338:LYS:HE2	55:W:70:PHE:CE1	2.53	0.43
9:VJ:16:ILE:HG12	9:VJ:229:VAL:HG11	2.01	0.43
9:VJ:321:MET:SD	9:VJ:326:VAL:HG21	2.58	0.43
9:WB:8:GLN:NE2	9:WB:17:GLY:HA3	2.32	0.43
9:WJ:39:ASP:OD1	9:WJ:39:ASP:N	2.44	0.43
9:WL:296:ALA:O	9:WL:299:MET:HG3	2.18	0.43
8:WM:66:VAL:HG11	8:WM:118:VAL:HG23	2.00	0.43
56:XK:100:ARG:HG2	56:XK:152:LEU:HD12	2.00	0.43
47:Y:333:LYS:HE3	47:Y:333:LYS:HB3	1.93	0.43
59:a:123:GLU:HA	59:a:126:GLU:HG2	1.99	0.43
59:c:306:LYS:HA	59:c:306:LYS:HD2	1.82	0.43
60:f:349:GLU:HA	60:f:364:THR:HG22	2.00	0.43
60:g:254:LEU:HD23	60:g:254:LEU:HA	1.89	0.43
65:s:69:LYS:HD2	65:s:69:LYS:HA	1.89	0.43
3:x:241:LYS:HE3	3:x:241:LYS:HB3	1.92	0.43
2:0A:80:LEU:HD21	2:0A:149:MET:HE1	2.00	0.43
2:0C:6:LYS:HB3	2:0C:6:LYS:HE2	1.86	0.43
2:0g:5:VAL:HG11	2:0g:84:PHE:HE1	1.84	0.43
4:3:1367:TYR:HB3	4:3:1375:PHE:HE1	1.83	0.43
6:A0:70:LEU:HD12	6:A0:70:LEU:HA	1.83	0.43
7:A7:57:PRO:HD3	9:RJ:114:ASP:OD2	2.18	0.43
8:AC:367:ASP:OD1	8:AC:367:ASP:N	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AD:100:ASN:HD22	9:AD:398:TYR:HE1	1.61	0.43
9:AD:149:THR:O	9:AD:153:SER:OG	2.32	0.43
9:AF:431:GLU:OE1	9:AF:433:GLU:HB2	2.18	0.43
8:AK:223:THR:OG1	8:AK:224:TYR:N	2.51	0.43
9:AL:211:CYS:HA	9:AL:215:LEU:HB2	1.99	0.43
10:AR:24:LEU:O	8:KO:339:ARG:NE	2.41	0.43
10:AS:38:TYR:CZ	4:y:1402:GLN:HG2	2.53	0.43
11:AT:59:ARG:HD2	9:JH:94:GLN:NE2	2.29	0.43
11:AU:340:LYS:HE3	11:AU:340:LYS:HB2	1.90	0.43
12:AW:333:ILE:O	12:AW:337:LEU:HB2	2.19	0.43
13:Ab:280:GLN:H	13:Ab:283:GLN:HG3	1.84	0.43
15:Aq:148:TYR:HE1	14:Bd:254:LEU:HD12	1.83	0.43
16:At:185:PRO:HG2	16:At:193:VAL:HG11	2.01	0.43
7:Aw:77:LEU:HD23	7:Aw:77:LEU:HA	1.77	0.43
18:B6:38:VAL:HG21	8:KM:390:ARG:HA	2.01	0.43
9:BB:131:GLN:HE22	9:BB:240:LEU:HD21	1.81	0.43
9:BF:101:TRP:HE1	9:BF:188:SER:HB3	1.83	0.43
9:BH:139:LEU:HG	9:BH:168:SER:HB3	2.01	0.43
9:BJ:330:MET:HA	9:BJ:333:VAL:HG12	2.00	0.43
9:BL:213:ARG:NH2	9:BL:297:LYS:HD2	2.34	0.43
8:BM:399:TYR:O	8:BM:402:ARG:NH1	2.52	0.43
19:BP:327:GLN:HE22	19:BP:331:ARG:HH22	1.64	0.43
19:BQ:389:THR:OG1	19:BQ:392:LYS:NZ	2.51	0.43
19:BR:247:LEU:HD23	19:BR:247:LEU:HA	1.75	0.43
21:BV:94:ILE:HG12	26:Bq:46:PHE:HZ	1.83	0.43
18:Bz:52:MET:SD	9:KD:337:ASN:ND2	2.92	0.43
5:C:131:THR:HB	5:C:134:PHE:CE2	2.54	0.43
28:C3:359:ASN:O	28:C3:363:THR:HG23	2.19	0.43
28:C9:181:LEU:HD23	28:C9:237:LEU:HG	2.00	0.43
9:CB:299:MET:HE2	9:CB:299:MET:HA	2.01	0.43
9:CD:290:THR:HG21	9:CD:329:GLN:HB3	2.01	0.43
8:CE:14:VAL:HG23	8:CE:67:PHE:CD2	2.54	0.43
9:CF:7:LEU:O	9:CF:8:GLN:NE2	2.50	0.43
9:CH:348:ASN:OD1	9:CH:348:ASN:N	2.52	0.43
8:CK:223:THR:OG1	8:CK:224:TYR:N	2.51	0.43
9:CL:294:PHE:HE2	9:CL:330:MET:HE1	1.84	0.43
14:CO:28:ARG:CD	8:EG:221:ARG:HH12	2.27	0.43
2:CV:150:LYS:HE3	2:CV:150:LYS:HB2	1.68	0.43
2:Cb:50:VAL:HG21	2:Cb:70:PHE:CE2	2.47	0.43
2:Ch:83:HIS:CE1	2:Ch:87:LEU:HD22	2.53	0.43
2:Ck:123:VAL:HA	2:Ck:126:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Cn:33:ARG:HH11	32:Cn:33:ARG:HG2	1.83	0.43
32:Cn:53:ARG:HE	32:Cn:53:ARG:HB2	1.55	0.43
33:Cs:173:ASN:CB	43:E4:126:GLN:HE22	2.31	0.43
33:Cs:175:ASP:OD1	33:Cs:225:ASN:ND2	2.49	0.43
29:D2:266:ILE:HD13	29:D2:266:ILE:HA	1.90	0.43
8:DA:322:ASP:OD2	8:DA:373:ARG:NH2	2.45	0.43
8:DC:268:PRO:HA	8:DC:380:ASN:HA	2.01	0.43
8:DG:302:MET:HB2	8:DG:302:MET:HE3	1.73	0.43
9:DH:204:ASN:OD1	69:DH:501:GDP:N2	2.38	0.43
8:DI:349:THR:OG1	8:DI:350:GLY:N	2.51	0.43
29:DT:201:ARG:HD2	29:DT:471:LYS:HE2	2.00	0.43
29:DU:134:THR:O	29:DU:138:GLN:HG2	2.19	0.43
29:DW:342:THR:OG1	29:DW:476:ARG:NH1	2.45	0.43
38:Dg:52:GLU:OE2	47:I:266:TYR:OH	2.35	0.43
39:Dl:32:ILE:HD12	39:Dl:32:ILE:HA	1.90	0.43
43:E1:48:ARG:HD2	28:F3:306:ASP:OD2	2.19	0.43
43:E3:44:LYS:HE2	28:F4:298:GLU:HB3	2.00	0.43
9:EB:200:TYR:HD1	9:EB:268:PRO:HG3	1.83	0.43
8:EC:289:ALA:O	8:EC:293:ASN:ND2	2.52	0.43
9:EF:8:GLN:HB2	9:EF:65:LEU:HA	2.00	0.43
9:EF:161:ASP:OD1	9:EF:161:ASP:N	2.36	0.43
9:EF:324:LYS:HD2	8:EG:210:TYR:CD1	2.54	0.43
8:EK:7:ILE:HB	8:EK:137:ILE:HD13	2.00	0.43
8:EK:288:VAL:HG11	8:EK:327:ASP:HB3	1.99	0.43
9:EL:329:GLN:HA	9:EL:332:ASN:HB2	2.00	0.43
9:EN:270:PHE:HD2	9:EN:273:LEU:HD21	1.83	0.43
44:ES:342:ALA:O	44:ES:346:LYS:HG2	2.19	0.43
42:F:388:THR:HG23	42:F:390:GLN:H	1.82	0.43
28:F2:110:SER:HA	28:F4:451:THR:HG21	2.00	0.43
9:FB:257:MET:SD	9:FB:314:ALA:HB2	2.59	0.43
8:FC:317:MET:HB3	8:FC:319:TYR:CE1	2.54	0.43
8:FE:327:ASP:OD1	8:FE:327:ASP:N	2.50	0.43
9:FF:86:ARG:HB3	9:GF:281:TYR:HB3	1.99	0.43
8:FK:396:ASP:HB3	8:FK:422:ARG:NH2	2.32	0.43
9:FL:309:ARG:NH2	9:FL:339:SER:O	2.51	0.43
8:FM:238:ILE:HD11	8:FM:378:LEU:HD21	2.00	0.43
9:GD:202:ILE:HD11	9:GD:268:PRO:HG2	2.00	0.43
9:GD:239:CYS:CB	9:GD:248:ALA:H	2.32	0.43
9:GF:54:ALA:HB3	9:GF:58:LYS:HB3	2.00	0.43
9:GF:178:THR:HG22	9:GF:180:VAL:H	1.83	0.43
8:GI:231:ILE:O	8:GI:235:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GK:213:CYS:HA	8:GK:217:LEU:HD12	2.01	0.43
8:GM:254:GLU:HG2	9:GN:98:GLY:HA2	2.00	0.43
9:HB:42:LEU:HD12	9:HB:42:LEU:HA	1.83	0.43
8:HE:60:LYS:HE2	8:HE:60:LYS:HB2	1.81	0.43
8:HG:202:PHE:CE1	8:HG:268:PRO:HG2	2.53	0.43
8:HI:121:ARG:HA	8:HI:121:ARG:HD2	1.76	0.43
9:HJ:282:ARG:NE	9:HJ:288:GLU:OE1	2.50	0.43
9:HL:128:ASP:OD1	9:HL:129:CYS:N	2.52	0.43
9:HL:252:LYS:O	9:HL:256:ASN:ND2	2.51	0.43
9:HL:272:PRO:HG3	9:HL:364:SER:HA	2.01	0.43
9:ID:376:GLU:HA	9:ID:379:LYS:HG3	1.99	0.43
9:IF:171:PRO:HG2	9:IF:181:GLU:OE1	2.19	0.43
8:IG:256:GLN:H	8:IG:256:GLN:HG2	1.53	0.43
9:IH:186:THR:HA	9:IH:189:VAL:HG12	1.99	0.43
8:II:27:GLU:OE1	8:II:243:ARG:NH2	2.38	0.43
8:IK:287:SER:N	8:IK:290:GLU:OE1	2.50	0.43
9:IL:53:GLU:OE1	62:j:6:TYR:HA	2.17	0.43
9:IN:19:LYS:HA	9:IN:19:LYS:HD3	1.82	0.43
8:IO:298:PRO:HB3	8:IO:307:PRO:HD2	1.99	0.43
9:JD:16:ILE:HD13	9:JD:229:VAL:HG11	2.00	0.43
9:JD:19:LYS:HA	9:JD:19:LYS:HD2	1.75	0.43
9:JD:210:ILE:O	9:JD:214:THR:OG1	2.32	0.43
9:JD:375:GLN:NE2	9:JD:423:GLN:OE1	2.40	0.43
9:JF:180:VAL:HG23	9:JF:184:ASN:HD21	1.83	0.43
8:JI:150:ALA:O	8:JI:154:MET:HG2	2.19	0.43
8:JI:280:LYS:HB3	8:JI:280:LYS:HE2	1.83	0.43
8:JK:422:ARG:HD2	8:JK:422:ARG:HA	1.78	0.43
8:LC:392:ASP:OD1	8:LC:422:ARG:NH2	2.51	0.43
8:LI:319:TYR:HB3	8:LI:323:VAL:HG11	1.99	0.43
9:LJ:230:SER:HA	9:LJ:233:MET:HE3	2.01	0.43
9:LN:11:GLN:HA	9:LN:72:THR:HG21	1.98	0.43
9:MB:139:LEU:HD12	9:MB:170:VAL:HG12	2.01	0.43
9:MH:284:LEU:HD23	9:MH:284:LEU:HA	1.83	0.43
9:MJ:46:ARG:NH2	8:MK:76:ASP:OD2	2.47	0.43
9:ML:237:THR:HB	9:ML:240:LEU:HD12	1.99	0.43
9:MN:1:MET:SD	9:MN:129:CYS:HB3	2.59	0.43
9:MN:209:ASP:OD1	9:MN:213:ARG:NH1	2.51	0.43
9:NB:323:MET:HE2	9:NB:323:MET:H	1.84	0.43
9:OB:164:MET:HB2	9:OB:196:THR:HA	1.99	0.43
9:OB:306:ARG:HD2	9:OB:340:TYR:HE2	1.83	0.43
9:OD:130:LEU:HD12	9:OD:130:LEU:HA	1.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:P:50:GLU:CB	46:o:422:ARG:HH12	2.32	0.43
52:P:102:ARG:NE	59:c:211:GLU:OE1	2.51	0.43
8:PG:160:ASP:OD2	8:PG:161:TYR:N	2.52	0.43
9:PH:314:ALA:HB3	9:PH:368:ILE:HB	2.00	0.43
9:PJ:134:GLN:HE21	9:PJ:167:PHE:HE2	1.67	0.43
8:PK:320:ARG:HB3	8:PK:374:ALA:HB3	2.01	0.43
9:QB:45:GLU:HG2	9:QB:46:ARG:HG3	2.01	0.43
9:QB:313:VAL:HB	9:QB:349:VAL:HA	2.00	0.43
9:QD:19:LYS:HE3	9:QD:19:LYS:HB3	1.78	0.43
8:QG:55:GLU:C	8:RG:285:GLN:HE22	2.26	0.43
8:QG:296:PHE:CD2	8:QG:377:MET:HE1	2.49	0.43
9:QJ:199:THR:OG1	9:QJ:264:HIS:O	2.29	0.43
8:QK:280:LYS:HA	8:QK:280:LYS:HD3	1.76	0.43
9:QL:66:VAL:HA	9:QL:91:VAL:HG23	2.00	0.43
9:QL:177:ASP:OD1	69:QL:501:GDP:O3'	2.33	0.43
8:QM:27:GLU:OE2	8:QM:243:ARG:NH2	2.51	0.43
8:RE:70:LEU:HB3	8:RE:98:ASP:HA	1.99	0.43
9:RL:311:LEU:HD11	9:RL:372:THR:HG23	2.00	0.43
9:RL:372:THR:HA	9:RL:422:TYR:CE2	2.49	0.43
8:RM:68:VAL:HG11	8:RM:149:PHE:HE2	1.84	0.43
8:RM:212:ILE:HD11	8:RM:300:ASN:HA	2.00	0.43
54:S:184:LEU:HD23	54:S:184:LEU:HA	1.87	0.43
8:SA:58:ALA:HB3	8:SA:60:LYS:H	1.83	0.43
9:SD:324:LYS:NZ	8:SE:222:PRO:HD2	2.33	0.43
8:SE:2:ARG:HD2	8:SE:242:LEU:HD12	1.99	0.43
8:SE:323:VAL:HG22	8:SE:324:VAL:N	2.34	0.43
8:SE:395:LEU:HD21	8:SE:418:PHE:CE1	2.50	0.43
9:SH:267:MET:HE3	9:SH:374:ILE:HG22	2.00	0.43
9:SJ:58:LYS:HB3	9:SJ:58:LYS:HE3	1.80	0.43
9:SL:377:LEU:HD12	9:SL:380:ARG:HH21	1.83	0.43
9:TB:128:ASP:OD1	9:TB:128:ASP:N	2.49	0.43
8:TC:5:ILE:HD12	8:TC:125:LEU:HD13	1.98	0.43
8:TC:201:ALA:O	8:TC:268:PRO:HD2	2.19	0.43
8:TC:308:ARG:HH11	8:TC:308:ARG:HD2	1.70	0.43
9:TD:41:ASP:N	9:TD:41:ASP:OD1	2.42	0.43
8:TE:262:TYR:HA	9:TF:396:HIS:HE1	1.83	0.43
9:TF:139:LEU:HG	9:TF:168:SER:HB2	1.99	0.43
9:TF:142:GLY:N	69:TF:501:GDP:O1B	2.51	0.43
8:TI:33:ASP:OD2	8:TI:34:GLY:N	2.51	0.43
8:TM:5:ILE:HG21	8:TM:122:ILE:HG23	2.01	0.43
9:UF:23:VAL:O	9:UF:27:GLU:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UF:273:LEU:HD23	9:UF:273:LEU:HA	1.85	0.43
8:UK:296:PHE:CE2	8:UK:335:ILE:HG12	2.53	0.43
9:UL:39:ASP:OD1	9:UL:39:ASP:N	2.38	0.43
9:UL:130:LEU:O	9:UL:162:ARG:NE	2.50	0.43
9:UN:380:ARG:HA	9:UN:383:GLU:HG2	2.01	0.43
1:V:29:ARG:HH12	1:V:36:ARG:HH11	1.66	0.43
9:VB:280:GLN:HE21	59:a:234:ARG:CZ	2.31	0.43
9:VF:101:TRP:CH2	9:VF:149:THR:HG21	2.54	0.43
9:WD:330:MET:HA	9:WD:333:VAL:HG22	2.00	0.43
8:WE:119:LEU:HD21	8:WE:156:ARG:HD2	2.00	0.43
8:WE:172:TYR:N	8:WE:204:VAL:O	2.52	0.43
8:WE:275:VAL:HA	8:WE:368:LEU:HD21	2.00	0.43
9:WH:67:ASP:HA	9:WH:143:THR:HG21	2.00	0.43
8:WI:139:HIS:ND1	8:WI:146:GLY:O	2.52	0.43
8:WI:273:ALA:HB3	8:WI:375:VAL:HB	2.00	0.43
8:WI:345:ASP:N	8:WI:345:ASP:OD1	2.42	0.43
8:WK:153:LEU:O	8:WK:157:LEU:HD12	2.19	0.43
8:WK:292:THR:OG1	8:WK:319:TYR:OH	2.31	0.43
8:WM:103:TYR:H	8:WM:408:TYR:HE1	1.65	0.43
8:WM:183:GLU:O	8:WM:187:SER:HB3	2.18	0.43
8:WM:188:ILE:HG21	8:WM:395:LEU:HD22	2.00	0.43
47:X:156:LYS:HB3	47:X:156:LYS:HE2	1.76	0.43
47:X:438:PHE:CD1	47:X:453:GLU:HG3	2.52	0.43
56:XI:91:VAL:HG21	56:XI:136:LEU:HD21	2.00	0.43
56:XK:135:ASN:OD1	56:XK:138:ASP:N	2.32	0.43
56:XL:22:LEU:HD11	56:XL:47:LEU:HD11	2.00	0.43
57:YI:197:LEU:HD22	57:YI:225:ILE:HG12	1.99	0.43
57:YK:233:GLU:OE1	57:YK:251:TYR:OH	2.30	0.43
59:b:457:LYS:O	59:b:461:GLU:HG3	2.19	0.43
59:c:254:ARG:HA	59:c:257:ARG:HH12	1.83	0.43
59:d:495:PHE:HB3	59:d:499:ARG:NH2	2.34	0.43
60:e:59:GLU:HG3	60:e:61:ASN:OD1	2.17	0.43
60:g:375:VAL:HG22	65:s:134:ASN:HD22	1.83	0.43
60:g:546:SER:OG	60:g:569:ASP:OD1	2.37	0.43
61:h:17:LEU:HD12	61:h:17:LEU:HA	1.89	0.43
63:k:158:LYS:HB3	63:k:158:LYS:HE2	1.91	0.43
46:o:378:LYS:HE3	46:o:378:LYS:HB2	1.67	0.43
58:q:79:LYS:HB2	66:w:350:MET:HE1	1.99	0.43
3:x:69:HIS:HB3	3:x:72:ILE:HG13	1.99	0.43
4:z:1391:LYS:HA	4:z:1391:LYS:HD2	1.81	0.43
2:0C:22:GLN:HE21	9:QJ:40:SER:N	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0c:93:VAL:O	2:0c:97:LEU:HD12	2.18	0.43
2:0e:127:SER:HB2	2:0e:130:GLU:HG3	2.01	0.43
2:0k:151:GLU:O	2:0k:155:HIS:ND1	2.49	0.43
6:A0:62:MET:HB3	6:A0:62:MET:HE2	1.65	0.43
9:AD:7:LEU:HB2	9:AD:135:LEU:HG	2.01	0.43
9:AD:170:VAL:HG11	9:AD:377:LEU:HD11	2.01	0.43
9:AD:283:ALA:HB2	9:KF:54:ALA:HA	2.01	0.43
9:AJ:112:LEU:O	9:AJ:116:VAL:HG12	2.19	0.43
9:AJ:432:GLU:OE1	8:AK:401:LYS:NZ	2.52	0.43
8:AM:175:PRO:HA	8:AM:390:ARG:HD3	1.99	0.43
10:AR:41:ILE:HD13	10:AR:41:ILE:HA	1.86	0.43
11:AT:164:LEU:HD23	11:AT:164:LEU:HA	1.87	0.43
12:AV:51:LYS:HE3	12:AV:51:LYS:HB3	1.87	0.43
12:AW:100:PRO:HD3	12:AW:158:ILE:HD11	2.00	0.43
13:Aa:210:GLU:OE2	13:Aa:210:GLU:N	2.51	0.43
13:Aa:670:SER:OG	13:Aa:671:GLU:N	2.50	0.43
13:Ac:161:LYS:NZ	13:Ac:171:LEU:HD13	2.34	0.43
16:Ax:130:ARG:HH22	9:FD:303:CYS:N	2.17	0.43
5:B:167:SER:HB3	9:WH:276:ARG:HD3	2.01	0.43
18:B6:61:SER:OG	18:B6:64:ASP:OD1	2.29	0.43
8:BA:2:ARG:HG3	8:BA:133:GLN:HE22	1.83	0.43
9:BL:280:GLN:NE2	47:Y:106:ASP:O	2.51	0.43
8:BM:9:VAL:HG21	8:BM:150:ALA:HB2	2.01	0.43
8:BM:330:ALA:O	8:BM:334:THR:OG1	2.31	0.43
21:BV:321:LEU:HB2	9:LD:276:ARG:HD3	2.01	0.43
22:BX:49:THR:HG23	22:BX:52:ARG:HE	1.84	0.43
14:Ba:80:ASP:OD2	28:C4:108:GLN:NE2	2.51	0.43
24:Bh:105:PRO:HD2	24:Bh:107:ARG:HH21	1.83	0.43
25:Bl:174:UNK:HA	9:SH:320:ARG:HH22	1.83	0.43
26:Bq:119:LYS:O	26:Bq:122:HIS:ND1	2.49	0.43
18:Bz:160:TYR:OH	8:KG:396:ASP:OD1	2.35	0.43
5:C:105:HIS:O	8:WK:221:ARG:NH1	2.51	0.43
28:C2:102:SER:HB2	29:DU:46:ARG:HH22	1.83	0.43
9:CB:2:ARG:NH1	8:CC:98:ASP:OD2	2.52	0.43
9:CD:47:ILE:HG22	48:J:111:TYR:CE2	2.53	0.43
9:CD:245:GLN:HA	8:CE:15:GLN:HE22	1.84	0.43
9:CD:262:ARG:NH2	9:CD:414:ASN:HD21	2.17	0.43
8:CG:180:ALA:HB3	8:CG:183:GLU:HG3	2.01	0.43
9:CL:136:THR:HG22	9:CL:167:PHE:HB2	2.00	0.43
2:Ca:24:PHE:N	9:PD:41:ASP:OD2	2.49	0.43
2:Cc:18:ILE:HG22	2:Cc:69:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cg:40:LYS:HA	2:Cg:40:LYS:HD2	1.84	0.43
2:Cj:71:LEU:HD23	2:Cj:71:LEU:HA	1.76	0.43
32:Co:103:GLU:OE1	32:Co:106:LYS:NZ	2.52	0.43
33:Cu:403:LYS:HD3	33:Cu:403:LYS:HA	1.79	0.43
29:D4:314:ARG:O	29:D4:318:ILE:HG23	2.19	0.43
29:D5:286:VAL:CG2	29:D7:396:GLN:HE21	2.31	0.43
29:D8:357:LYS:O	29:D8:361:GLN:HG2	2.18	0.43
29:D8:405:ARG:HA	29:D8:406:PRO:HD3	1.92	0.43
8:DA:5:ILE:HD12	8:DA:5:ILE:HA	1.86	0.43
8:DE:71:GLU:HG2	8:DE:73:THR:HG22	2.00	0.43
9:DH:290:THR:HG21	9:DH:329:GLN:HB3	2.00	0.43
29:DQ:469:LYS:HE3	29:DQ:473:MET:HE1	1.99	0.43
29:DU:148:ARG:HD3	29:DU:154:PHE:CE2	2.54	0.43
35:Da:85:LEU:HB2	44:ET:58:GLN:HG2	1.99	0.43
43:E2:136:SER:O	44:EV:202:ARG:NH1	2.52	0.43
29:EA:98:TRP:HZ2	29:EO:461:LYS:HE3	1.83	0.43
29:EA:283:PHE:HB2	29:EO:396:GLN:HB3	1.99	0.43
8:EC:227:LEU:O	8:EC:231:ILE:HG12	2.18	0.43
8:EE:155:GLU:OE2	8:EE:193:THR:OG1	2.37	0.43
8:EE:326:LYS:HE2	8:EE:326:LYS:HB3	1.67	0.43
9:EF:116:VAL:HG11	9:EF:151:LEU:HD11	1.99	0.43
8:EG:336:LYS:NZ	8:EG:348:PRO:O	2.51	0.43
8:EI:26:LEU:HD23	8:EI:363:VAL:HG12	2.00	0.43
8:EK:172:TYR:O	8:EK:205:ASP:N	2.52	0.43
9:EN:169:VAL:HG13	9:EN:202:ILE:HG22	2.00	0.43
29:EO:363:GLN:HB3	29:EO:454:LEU:HD21	2.00	0.43
44:EV:195:LYS:HB3	44:EV:195:LYS:HE2	1.85	0.43
42:F:415:GLN:HG2	8:II:279:GLU:HB2	1.99	0.43
28:F6:277:THR:OG1	28:F6:278:SER:N	2.51	0.43
9:FB:66:VAL:HG13	9:FB:116:VAL:HG11	2.01	0.43
9:FD:40:SER:OG	9:FD:41:ASP:N	2.51	0.43
9:FH:334:GLN:HE22	9:FH:348:ASN:H	1.66	0.43
8:FI:98:ASP:O	8:FI:105:ARG:NH2	2.52	0.43
9:FJ:193:VAL:HG21	9:FJ:418:LEU:HD22	2.01	0.43
8:FK:209:ILE:HG22	8:FK:227:LEU:HD22	2.00	0.43
9:FL:149:THR:HA	9:FL:152:ILE:HD12	2.00	0.43
9:GH:41:ASP:N	9:GH:41:ASP:OD2	2.45	0.43
9:HF:155:ILE:HD13	9:HF:155:ILE:HA	1.84	0.43
8:HG:188:ILE:HG13	8:HG:395:LEU:HD13	2.01	0.43
8:IC:426:ALA:O	8:IC:430:LYS:HG3	2.18	0.43
8:IG:239:THR:OG1	8:IG:243:ARG:NH1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IG:346:TRP:HB3	9:IH:391:ARG:HG3	2.01	0.43
8:IK:218:ASP:OD1	8:IK:218:ASP:N	2.48	0.43
9:JD:68:LEU:HD12	9:JD:143:THR:HG22	2.00	0.43
9:JF:298:ASN:HD22	9:JF:298:ASN:C	2.25	0.43
9:JF:409:THR:HB	58:q:152:ILE:HD11	2.01	0.43
8:JG:349:THR:OG1	8:JG:350:GLY:N	2.51	0.43
9:JH:293:MET:HG2	9:JH:367:PHE:HB2	1.99	0.43
9:JJ:313:VAL:N	9:JJ:348:ASN:O	2.41	0.43
9:KB:325:GLU:N	9:KB:325:GLU:OE2	2.52	0.43
9:KH:203:ASP:HB2	9:KH:301:ALA:HA	2.01	0.43
9:KH:275:SER:OG	9:KH:276:ARG:N	2.51	0.43
9:KJ:285:THR:HG22	9:KJ:286:VAL:H	1.84	0.43
9:KL:19:LYS:NZ	9:KL:223:GLY:O	2.52	0.43
50:L1:75:ARG:HD2	9:VB:48:ASN:ND2	2.33	0.43
9:LB:336:LYS:HD2	9:LB:336:LYS:HA	1.83	0.43
8:LC:259:LEU:HD21	8:LC:316:CYS:HB2	2.00	0.43
9:LD:285:THR:HG22	9:LD:287:PRO:HD2	2.00	0.43
9:LH:344:TRP:HZ3	8:LI:403:ALA:HB2	1.84	0.43
8:LI:133:GLN:HB3	8:LI:252:LEU:HD22	2.00	0.43
8:LI:203:MET:HE2	8:LI:384:ILE:HD11	2.01	0.43
9:LL:36:TYR:HE1	9:LL:44:LEU:HD22	1.83	0.43
9:MH:236:VAL:HG22	9:MH:368:ILE:HD11	1.99	0.43
8:MK:212:ILE:HD12	8:MK:302:MET:HG3	2.01	0.43
8:MK:234:ILE:HG23	8:MK:376:CYS:SG	2.58	0.43
9:N0:34:GLY:HA3	9:N0:58:LYS:HE3	2.00	0.43
9:N0:185:ALA:O	9:N0:189:VAL:HG12	2.19	0.43
9:N0:189:VAL:HA	9:N0:192:LEU:HB3	2.00	0.43
9:N0:324:LYS:NZ	8:NA:221:ARG:HA	2.34	0.43
8:NA:271:THR:HB	8:NA:377:MET:HB3	2.01	0.43
9:NF:316:VAL:HB	9:NF:366:THR:HB	2.00	0.43
8:NG:331:ALA:O	8:NG:335:ILE:HG12	2.19	0.43
9:NJ:229:VAL:O	9:NJ:233:MET:HB3	2.18	0.43
8:OK:167:LEU:HD12	8:OK:202:PHE:CE2	2.53	0.43
9:PB:136:THR:HG22	9:PB:167:PHE:HB2	2.00	0.43
9:PB:155:ILE:HD12	9:PB:155:ILE:HA	1.90	0.43
9:PF:173:PRO:HB2	9:PF:174:LYS:HD2	2.01	0.43
9:PF:271:ALA:HA	9:PF:298:ASN:HD21	1.84	0.43
8:PG:262:TYR:HB2	8:PG:265:ILE:HG12	2.00	0.43
9:PH:252:LYS:HG3	8:PI:100:ALA:HA	2.01	0.43
8:PI:52:PHE:HE2	8:PI:243:ARG:HD2	1.83	0.43
8:PK:119:LEU:HD23	8:PK:119:LEU:HA	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QA:217:LEU:HD13	8:QA:367:ASP:OD2	2.19	0.43
9:QB:375:GLN:HB2	9:QB:419:VAL:HG23	2.00	0.43
8:QC:21:TRP:CD1	8:QC:24:TYR:HD2	2.37	0.43
9:QD:130:LEU:O	9:QD:162:ARG:NH1	2.52	0.43
9:QD:237:THR:O	9:QD:237:THR:OG1	2.33	0.43
8:QE:208:ALA:O	8:QE:212:ILE:HG12	2.18	0.43
8:QG:277:SER:O	8:QG:281:ALA:N	2.43	0.43
8:QG:311:LYS:H	8:QG:382:THR:HG22	1.83	0.43
9:QH:259:PRO:HB3	8:QI:403:ALA:HB1	2.00	0.43
8:QI:90:GLU:OE1	8:RI:280:LYS:NZ	2.51	0.43
9:QJ:320:ARG:N	9:QJ:363:MET:HE1	2.33	0.43
8:QK:103:TYR:HE1	8:QK:107:HIS:HD1	1.66	0.43
9:QL:391:ARG:HA	9:QL:391:ARG:HD3	1.87	0.43
9:RB:15:GLN:HG3	9:RB:226:ASN:ND2	2.34	0.43
9:RB:267:MET:HE3	9:RB:267:MET:HB3	1.93	0.43
8:RC:2:ARG:H	8:RC:2:ARG:HG2	1.43	0.43
9:RD:225:LEU:O	9:RD:229:VAL:HG23	2.18	0.43
8:RE:60:LYS:HA	8:RE:60:LYS:HD2	1.56	0.43
9:RF:202:ILE:HG22	9:RF:300:MET:HG3	2.00	0.43
9:RJ:210:ILE:O	9:RJ:214:THR:OG1	2.33	0.43
9:RJ:316:VAL:HB	9:RJ:366:THR:HB	2.00	0.43
9:RL:284:LEU:HD12	9:RL:284:LEU:HA	1.90	0.43
8:SE:204:VAL:HG13	8:SE:302:MET:HB3	2.00	0.43
8:SE:360:PRO:HG3	8:SE:374:ALA:HB2	1.99	0.43
9:SF:41:ASP:N	9:SF:41:ASP:OD1	2.46	0.43
9:SH:345:ILE:HG23	8:SI:398:MET:HE1	2.01	0.43
9:SJ:214:THR:OG1	9:SJ:215:LEU:N	2.52	0.43
8:SK:386:GLU:HA	8:SK:389:ALA:HB3	2.00	0.43
8:SM:88:HIS:HE2	8:TM:284:GLU:CD	2.27	0.43
9:TB:41:ASP:OD1	9:TB:41:ASP:N	2.39	0.43
8:TC:36:MET:SD	8:TC:36:MET:N	2.91	0.43
8:TC:165:SER:O	8:TC:165:SER:OG	2.34	0.43
8:TC:262:TYR:HA	9:TD:396:HIS:CE1	2.53	0.43
8:TE:28:HIS:NE2	8:TE:48:SER:O	2.51	0.43
9:TF:258:VAL:HA	9:TF:259:PRO:HD3	1.88	0.43
9:TJ:276:ARG:NH1	46:o:316:GLU:OE2	2.51	0.43
9:TJ:392:LYS:HA	9:TJ:395:LEU:HD23	2.01	0.43
8:UC:308:ARG:H	8:UC:308:ARG:HG2	1.53	0.43
9:UD:181:GLU:HG2	9:UD:182:PRO:HD3	2.00	0.43
8:UE:238:ILE:HG23	8:UE:239:THR:HG23	2.00	0.43
8:UG:62:VAL:HA	8:UG:63:PRO:HD3	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UI:1:MET:HA	8:UI:1:MET:HE3	1.99	0.43
8:UI:147:SER:OG	8:UI:148:GLY:N	2.51	0.43
9:UJ:252:LYS:H	9:UJ:252:LYS:HG3	1.58	0.43
8:UK:119:LEU:HA	8:UK:119:LEU:HD23	1.78	0.43
8:UM:382:THR:HA	8:UM:432:TYR:HE1	1.84	0.43
9:UN:378:PHE:HD1	9:UN:415:MET:HE1	1.83	0.43
8:VE:324:VAL:HG11	9:VF:219:THR:HB	1.99	0.43
8:VG:39:ASP:OD1	8:VG:39:ASP:N	2.50	0.43
8:VG:186:ASN:OD1	8:VG:408:TYR:OH	2.36	0.43
8:VI:188:ILE:HG13	8:VI:395:LEU:HD22	1.99	0.43
8:VK:60:LYS:HE2	8:WK:283:HIS:CD2	2.54	0.43
9:VN:230:SER:HA	9:VN:233:MET:HB2	2.01	0.43
9:WF:1:MET:HE1	59:a:84:MET:SD	2.59	0.43
9:WL:380:ARG:HA	9:WL:383:GLU:HG3	2.01	0.43
56:XM:67:LYS:O	56:XM:153:ARG:NH1	2.51	0.43
56:XM:69:LEU:HB3	56:XM:152:LEU:O	2.18	0.43
59:c:281:LYS:HE2	59:c:281:LYS:HB2	1.80	0.43
59:d:387:LEU:HD21	46:o:235:ARG:HH22	1.83	0.43
60:e:512:CYS:HB3	60:e:521:ILE:HD11	2.01	0.43
62:j:12:ILE:HD13	62:j:12:ILE:HA	1.93	0.43
4:z:1449:LEU:HD23	4:z:1449:LEU:HA	1.86	0.43
2:0a:66:ILE:HD12	2:0a:66:ILE:HA	1.90	0.43
3:1:222:ARG:HH22	3:1:225:LYS:HD3	1.82	0.43
7:A1:32:ILE:HD13	8:PK:299:ALA:HB2	2.01	0.43
7:A1:228:MET:HB3	8:OA:114:ILE:HD11	2.01	0.43
9:AD:271:ALA:HB2	9:AD:293:MET:HG2	2.00	0.43
8:AE:264:ARG:HH11	8:AE:264:ARG:HG3	1.83	0.43
9:AF:113:VAL:HA	9:AF:116:VAL:HG12	2.01	0.43
8:AG:286:LEU:HA	8:AG:290:GLU:OE2	2.18	0.43
9:AH:202:ILE:HG12	9:AH:268:PRO:HG2	1.99	0.43
9:AH:255:VAL:HG22	8:AI:407:TRP:CE3	2.54	0.43
9:AH:395:LEU:HD12	9:AH:395:LEU:HA	1.84	0.43
12:AV:180:ASN:HA	12:AV:200:GLY:H	1.83	0.43
13:Ab:122:ILE:HG23	13:Ab:147:TYR:HE1	1.84	0.43
13:Ab:158:ALA:HA	13:Ab:161:LYS:NZ	2.34	0.43
13:Ac:108:ASN:OD1	9:BF:218:THR:OG1	2.34	0.43
13:Ad:308:LYS:HG3	13:Ad:309:TYR:CE2	2.54	0.43
13:Ad:475:PRO:HG3	13:Ad:500:ASN:ND2	2.29	0.43
15:Aq:133:HIS:NE2	9:KN:31:ASP:OD1	2.49	0.43
16:Ax:54:ARG:NH2	9:EH:106:TYR:HE2	2.16	0.43
7:Ay:139:PRO:HD2	7:Ay:140:ALA:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BA:99:ALA:HB1	8:BA:144:GLY:HA3	2.01	0.43
8:BG:136:LEU:HD23	8:BG:169:PHE:HE1	1.84	0.43
8:BG:188:ILE:HG13	8:BG:395:LEU:HD13	1.99	0.43
9:BH:268:PRO:HG2	9:BH:300:MET:HG3	1.99	0.43
8:BI:155:GLU:HG3	8:BI:156:ARG:HD2	2.00	0.43
8:BK:67:PHE:HE2	8:BK:78:VAL:HG11	1.84	0.43
8:BK:223:THR:HB	14:Bc:233:MET:HE2	2.01	0.43
9:BL:326:VAL:O	9:BL:330:MET:HG2	2.18	0.43
19:BP:177:GLN:NE2	19:BP:477:ALA:O	2.43	0.43
19:BQ:256:LEU:HD23	19:BQ:256:LEU:HA	1.87	0.43
14:Bb:77:PRO:HG2	63:n:70:VAL:HG22	2.00	0.43
14:Bb:311:LYS:HB2	14:Bb:311:LYS:HE3	1.73	0.43
14:Be:307:LYS:HE2	14:Be:307:LYS:HB2	1.74	0.43
26:Bq:66:ASP:OD1	26:Bq:66:ASP:N	2.51	0.43
28:C0:393:LEU:HD11	28:C0:424:VAL:HG13	2.00	0.43
29:C1:187:LEU:HD23	29:C1:187:LEU:HA	1.89	0.43
28:C2:91:PHE:HD2	29:DU:56:PHE:CD2	2.36	0.43
28:C2:146:LEU:HD23	28:C2:146:LEU:HA	1.82	0.43
28:C4:237:LEU:HD12	28:C4:237:LEU:HA	1.82	0.43
28:C4:358:LYS:O	28:C4:362:GLN:HG2	2.18	0.43
28:C4:462:LYS:HA	28:C4:462:LYS:HD3	1.64	0.43
9:CB:24:ILE:HD12	9:CB:24:ILE:HA	1.91	0.43
8:CC:88:HIS:HE1	8:CC:90:GLU:HB3	1.84	0.43
9:CD:297:LYS:HB3	9:CD:297:LYS:HE2	1.81	0.43
8:CG:188:ILE:HD12	8:CG:425:LEU:HD22	2.01	0.43
9:CH:251:ARG:HG3	8:CI:100:ALA:CB	2.49	0.43
9:CJ:167:PHE:CZ	9:CJ:233:MET:HB2	2.54	0.43
9:CJ:253:LEU:O	9:CJ:257:MET:HB2	2.19	0.43
8:CK:68:VAL:HG12	8:CK:93:ILE:HB	2.00	0.43
8:CK:244:PHE:HD2	8:CK:356:ASN:HD21	1.67	0.43
2:CV:50:VAL:HG11	2:CV:70:PHE:HE2	1.83	0.43
2:CV:111:LEU:HD22	2:CV:141:LEU:CD2	2.48	0.43
2:Cd:102:LYS:HE3	2:Cd:102:LYS:HB3	1.81	0.43
32:Cm:61:LYS:O	32:Cm:65:GLN:HG3	2.19	0.43
32:Cn:97:ARG:HD2	43:E1:77:TYR:CE2	2.54	0.43
33:Cs:85:LEU:O	33:Cs:89:ILE:HG23	2.19	0.43
29:D3:257:LEU:HD23	29:D3:257:LEU:HA	1.89	0.43
29:D9:255:ARG:NH2	29:EQ:203:LYS:HD2	2.34	0.43
8:DA:261:PRO:HG3	8:DA:313:MET:SD	2.59	0.43
8:DG:172:TYR:HH	8:DG:388:TRP:CD1	2.37	0.43
8:DG:185:TYR:O	8:DG:189:LEU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DJ:65:LEU:HD12	9:DJ:90:PHE:HE1	1.84	0.43
9:DL:156:ARG:N	9:DL:156:ARG:HD2	2.33	0.43
8:DM:254:GLU:HG2	9:DN:98:GLY:HA2	1.99	0.43
29:DR:453:ARG:O	29:DR:457:GLU:HG3	2.18	0.43
29:DS:228:CYS:SG	29:DS:331:LEU:HD12	2.59	0.43
29:DV:50:ALA:O	63:l:79:ARG:NH2	2.52	0.43
29:DV:190:PRO:HA	29:DV:193:VAL:HG12	1.99	0.43
29:DW:356:VAL:CG2	29:DW:461:LYS:HZ1	2.32	0.43
35:Da:146:LYS:HD3	35:Da:154:VAL:HG21	1.99	0.43
41:Dn:222:GLN:HE21	41:Dn:224:LYS:HD3	1.83	0.43
9:EB:117:LEU:O	9:EB:121:ARG:HG3	2.19	0.43
9:ED:238:THR:HG21	9:ED:318:ARG:HE	1.83	0.43
9:EF:8:GLN:HG3	9:EF:65:LEU:HG	2.01	0.43
8:EG:203:MET:HE3	8:EG:203:MET:HB2	1.94	0.43
8:EG:286:LEU:HD12	8:EG:372:GLN:CD	2.43	0.43
9:EJ:324:LYS:HA	8:EK:210:TYR:CE2	2.45	0.43
8:EK:223:THR:O	8:EK:223:THR:OG1	2.30	0.43
9:EL:238:THR:O	9:EL:242:PHE:N	2.47	0.43
29:EP:477:LYS:HZ3	44:EW:115:SER:H	1.67	0.43
44:ET:117:LEU:HD21	44:ET:261:THR:HG23	2.01	0.43
44:EY:114:LYS:HE3	44:EY:114:LYS:HB3	1.79	0.43
28:F4:350:ARG:HA	28:F4:350:ARG:HD2	1.84	0.43
9:FB:322:SER:OG	9:FB:323:MET:N	2.51	0.43
9:FF:285:THR:H	9:FF:288:GLU:CD	2.26	0.43
9:FH:350:LYS:HE3	9:FH:350:LYS:HB3	1.85	0.43
8:FI:325:PRO:HG3	9:FJ:222:TYR:CD1	2.54	0.43
9:FJ:331:LEU:HD23	9:FJ:331:LEU:HA	1.88	0.43
8:FK:54:SER:HB2	8:FK:62:VAL:HG13	2.00	0.43
8:FK:154:MET:HE2	8:FK:154:MET:HB2	1.95	0.43
45:G:334:ARG:HB3	45:G:345:LEU:HD22	2.01	0.43
9:GB:30:ILE:HD11	9:GB:47:ILE:HD11	1.99	0.43
8:GI:84:ARG:H	8:GI:84:ARG:HG3	1.61	0.43
9:GL:32:PRO:HD3	9:GL:81:PHE:CZ	2.53	0.43
8:GM:333:ALA:O	8:GM:337:THR:OG1	2.35	0.43
9:GN:62:ARG:HG3	9:GN:123:GLU:CD	2.44	0.43
9:GN:138:SER:HA	9:GN:169:VAL:H	1.84	0.43
8:HC:169:PHE:CE2	8:HC:235:VAL:HG22	2.54	0.43
9:HD:3:GLU:N	9:HD:3:GLU:OE2	2.52	0.43
9:HD:74:ASP:O	9:HD:78:SER:OG	2.32	0.43
9:HD:248:ALA:HA	9:HD:252:LYS:HE2	2.01	0.43
8:HE:154:MET:HE2	8:HE:154:MET:HB3	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HG:69:ASP:OD2	8:HG:71:GLU:HG2	2.18	0.43
9:HJ:313:VAL:O	9:HJ:350:LYS:N	2.48	0.43
9:HN:208:TYR:O	9:HN:212:PHE:HB3	2.19	0.43
8:HO:32:PRO:HB3	8:HO:83:TYR:HE1	1.84	0.43
8:IE:399:TYR:OH	8:IE:415:GLU:OE2	2.35	0.43
8:II:317:MET:N	8:II:352:LYS:O	2.51	0.43
9:IJ:97:ALA:HB3	9:IJ:143:THR:HG22	2.00	0.43
9:IJ:122:LYS:NZ	1:V:35:LEU:O	2.41	0.43
8:IK:5:ILE:HD13	8:IK:64:ARG:HB2	2.01	0.43
8:IK:215:ARG:HB3	8:IK:216:ASN:CG	2.44	0.43
9:IL:68:LEU:HD12	9:IL:97:ALA:HB2	2.00	0.43
9:IL:150:LEU:O	9:IL:154:LYS:HG3	2.18	0.43
8:JC:259:LEU:O	8:JC:380:ASN:ND2	2.39	0.43
9:JD:224:ASP:OD1	9:JD:224:ASP:N	2.52	0.43
9:JD:263:LEU:HD21	9:JD:421:GLU:HG2	2.00	0.43
9:JH:335:ASN:HB2	9:JH:336:LYS:NZ	2.33	0.43
9:JJ:141:GLY:O	9:JJ:145:SER:OG	2.28	0.43
8:JK:76:ASP:O	8:JK:80:THR:OG1	2.35	0.43
8:JK:345:ASP:OD2	8:JK:346:TRP:N	2.51	0.43
9:JL:181:GLU:HG2	9:JL:182:PRO:HD3	2.00	0.43
9:JN:337:ASN:OD1	9:JN:337:ASN:N	2.46	0.43
8:KE:265:ILE:HG23	8:KE:432:TYR:CZ	2.53	0.43
9:KF:121:ARG:NH1	9:KF:158:GLU:OE1	2.51	0.43
9:KL:284:LEU:HD23	9:KL:362:LYS:HB2	2.00	0.43
9:LB:135:LEU:HD22	9:LB:166:THR:HG22	2.00	0.43
9:LD:317:PHE:HB2	9:LD:353:VAL:HG22	2.01	0.43
9:LD:327:ASP:OD1	9:LD:327:ASP:N	2.51	0.43
8:LG:269:LEU:HD21	8:LG:384:ILE:HD12	2.01	0.43
9:LH:121:ARG:NH1	9:LH:158:GLU:OE2	2.51	0.43
9:LN:31:ASP:OD1	9:LN:35:THR:N	2.50	0.43
8:MC:172:TYR:CD2	8:MC:173:PRO:HD2	2.53	0.43
8:ME:102:ASN:HB3	8:ME:105:ARG:HB2	2.01	0.43
8:ME:352:LYS:HD3	9:MF:178:THR:HG23	2.00	0.43
9:MN:74:ASP:OD1	1:V:210:TYR:OH	2.36	0.43
9:NB:257:MET:HA	9:NB:312:THR:HG21	2.00	0.43
9:NF:236:VAL:HG22	9:NF:368:ILE:HD11	1.99	0.43
8:NG:306:ASP:OD1	8:NG:306:ASP:N	2.52	0.43
8:NI:28:HIS:HB2	8:NI:30:ILE:HG22	2.01	0.43
9:NJ:208:TYR:CE1	9:NJ:225:LEU:HD11	2.54	0.43
9:O0:376:GLU:HA	9:O0:379:LYS:HG2	2.01	0.43
9:OB:46:ARG:NH2	8:OC:76:ASP:OD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OE:92:LEU:HD23	8:OE:92:LEU:HA	1.82	0.43
8:OE:391:LEU:HD23	8:OE:394:LYS:HD2	2.00	0.43
9:OJ:299:MET:HE1	9:OJ:367:PHE:HD2	1.83	0.43
8:OK:115:VAL:HA	8:OK:118:VAL:HG12	1.99	0.43
9:PB:122:LYS:HE3	9:QB:291:GLN:NE2	2.33	0.43
8:PE:103:TYR:O	8:PE:107:HIS:CB	2.67	0.43
9:PF:42:LEU:H	9:PF:42:LEU:HG	1.67	0.43
9:PH:1:MET:HE3	9:PH:1:MET:N	2.34	0.43
9:PH:100:ASN:HB3	9:PH:103:LYS:HG2	2.00	0.43
8:PI:298:PRO:HA	8:PI:301:GLN:HG3	2.01	0.43
8:PM:138:PHE:CZ	8:PM:235:VAL:HG21	2.53	0.43
9:QF:73:MET:HE3	9:QF:73:MET:HB3	1.69	0.43
9:QJ:253:LEU:HB3	9:QJ:257:MET:HE2	2.00	0.43
8:RA:290:GLU:HA	8:RA:293:ASN:ND2	2.34	0.43
8:RC:425:LEU:O	8:RC:429:GLU:N	2.51	0.43
8:RE:56:THR:HG22	8:RE:60:LYS:HB2	2.01	0.43
8:RE:271:THR:OG1	8:RE:272:TYR:N	2.52	0.43
9:RF:325:GLU:OE2	8:RG:221:ARG:NH2	2.52	0.43
8:RG:188:ILE:HD11	8:RG:391:LEU:HD21	2.01	0.43
9:RJ:264:HIS:HA	9:RJ:266:PHE:CE1	2.52	0.43
9:SB:213:ARG:HA	9:SB:216:LYS:NZ	2.34	0.43
8:SC:334:THR:O	8:SC:337:THR:OG1	2.37	0.43
8:SG:324:VAL:HG12	8:SG:326:LYS:H	1.84	0.43
8:SG:414:GLU:O	8:SG:416:GLY:N	2.47	0.43
9:SH:375:GLN:HB3	9:SH:422:TYR:HB3	2.01	0.43
8:SI:119:LEU:HA	8:SI:122:ILE:HB	2.01	0.43
8:SK:114:ILE:O	8:SK:118:VAL:HG23	2.19	0.43
54:T:263:LYS:HA	54:T:263:LYS:HD2	1.86	0.43
8:TC:26:LEU:HD23	8:TC:363:VAL:HG22	2.00	0.43
9:TD:324:LYS:NZ	8:TE:210:TYR:HD1	2.16	0.43
9:TF:62:ARG:HE	9:TF:62:ARG:HB2	1.41	0.43
9:TF:363:MET:HE2	9:TF:363:MET:HB2	1.86	0.43
9:TF:386:THR:O	9:TF:390:ARG:HG3	2.19	0.43
8:TI:88:HIS:HA	8:TI:89:PRO:HD3	1.89	0.43
9:UB:20:PHE:CD1	9:UB:233:MET:HG3	2.53	0.43
9:UJ:257:MET:HB3	9:UJ:266:PHE:CZ	2.54	0.43
8:UK:66:VAL:HG11	8:UK:118:VAL:HG23	2.01	0.43
9:UL:45:GLU:OE2	9:UL:46:ARG:HG2	2.18	0.43
8:UM:22:GLU:HG3	8:UM:83:TYR:OH	2.18	0.43
1:V:68:GLU:CD	1:V:68:GLU:H	2.27	0.43
9:VB:128:ASP:N	9:VB:128:ASP:OD1	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VD:127:CYS:SG	9:VD:128:ASP:N	2.91	0.43
8:VE:381:THR:HG22	8:VE:383:ALA:H	1.83	0.43
8:VK:169:PHE:HD2	8:VK:202:PHE:HB2	1.84	0.43
9:VN:219:THR:O	9:VN:219:THR:OG1	2.34	0.43
8:WC:63:PRO:O	8:WC:91:GLN:NE2	2.52	0.43
8:WE:435:VAL:O	9:WF:391:ARG:NH2	2.51	0.43
9:WH:134:GLN:NE2	9:WH:233:MET:HE2	2.34	0.43
8:WI:320:ARG:HD3	8:WI:360:PRO:HG3	2.00	0.43
8:WK:298:PRO:HB3	8:WK:307:PRO:HD2	2.01	0.43
8:WK:317:MET:HE2	8:WK:377:MET:HE3	2.01	0.43
8:WM:172:TYR:OH	8:WM:388:TRP:NE1	2.51	0.43
9:WN:140:GLY:HA3	9:WN:181:GLU:OE1	2.18	0.43
47:X:262:TYR:HE2	47:X:291:LEU:HD22	1.83	0.43
47:X:492:ILE:HD12	47:X:493:GLY:H	1.84	0.43
56:XJ:34:ILE:HG22	57:YJ:208:GLY:HA2	2.01	0.43
56:XL:90:GLU:HB2	56:XL:104:ARG:HE	1.83	0.43
59:a:84:MET:HE2	59:a:84:MET:HB3	1.82	0.43
59:c:150:LYS:NZ	60:f:579:GLU:OE2	2.35	0.43
60:f:527:ARG:NE	60:f:549:GLY:O	2.52	0.43
60:f:571:LEU:HA	60:f:586:GLY:HA3	2.00	0.43
60:g:232:ILE:HB	60:g:284:TYR:CE2	2.54	0.43
61:h:88:GLU:O	61:h:91:GLU:HG3	2.19	0.43
62:j:30:LEU:HD23	62:j:30:LEU:HA	1.79	0.43
46:o:188:LEU:HD23	46:o:188:LEU:HA	1.88	0.43
46:o:518:GLN:HG2	46:o:522:ILE:HD12	2.01	0.43
3:1:25:LYS:HG2	3:1:42:VAL:HB	2.00	0.43
6:A0:151:ARG:HD2	64:ke:16:LYS:HG3	2.01	0.43
7:A1:195:PHE:O	8:PC:214:ARG:NH2	2.51	0.43
7:A7:139:PRO:HA	8:RE:123:ARG:HH21	1.84	0.43
7:A8:241:LYS:HE3	7:A8:241:LYS:HB2	1.81	0.43
9:AD:53:GLU:HG3	9:AD:59:TYR:CE1	2.53	0.43
8:AE:429:GLU:OE1	8:AE:430:LYS:NZ	2.50	0.43
9:AF:3:GLU:HB2	9:AF:130:LEU:HD12	2.01	0.43
9:AF:6:HIS:HD2	9:AF:21:TRP:NE1	2.16	0.43
9:AF:173:PRO:HB3	9:AF:380:ARG:HD3	2.01	0.43
8:AG:155:GLU:HG2	8:AG:197:HIS:CD2	2.54	0.43
8:AI:1:MET:HB2	8:AI:2:ARG:H	1.55	0.43
11:AU:421:ARG:HH21	9:GJ:362:LYS:HD3	1.84	0.43
12:AV:100:PRO:HD3	12:AV:158:ILE:HG22	2.00	0.43
13:Ab:603:ASN:OD1	13:Ab:603:ASN:N	2.51	0.43
14:Al:34:THR:HA	8:EE:219:ILE:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Av:178:LYS:HE3	7:Av:178:LYS:HB3	1.67	0.43
7:Aw:60:LEU:HD23	7:Aw:60:LEU:H	1.83	0.43
9:BH:354:CYS:SG	9:BH:355:ASP:N	2.91	0.43
19:BQ:209:MET:HE3	19:BQ:321:ILE:HG23	2.00	0.43
22:BW:114:GLU:HG2	22:BW:115:LEU:HD23	2.00	0.43
22:BW:145:GLU:OE2	22:BW:145:GLU:N	2.51	0.43
23:Bg:97:ASN:HB3	9:HN:306:ARG:HH22	1.84	0.43
28:C0:419:ARG:NH1	28:C9:141:ASP:OD1	2.43	0.43
29:C1:380:LEU:HD22	29:DP:127:MET:HE1	2.00	0.43
28:C4:203:GLU:OE2	28:C6:93:ARG:NH2	2.51	0.43
28:C8:93:ARG:HH22	44:ES:42:ALA:HA	1.83	0.43
8:CC:328:VAL:O	8:CC:332:ILE:HG13	2.19	0.43
8:CI:10:GLY:HA2	8:CI:145:THR:HG23	2.00	0.43
8:CI:240:ALA:HB1	8:CI:356:ASN:HD22	1.84	0.43
9:CJ:321:MET:HE1	9:CJ:326:VAL:HG11	2.00	0.43
9:CL:218:THR:HG23	9:CL:219:THR:HG23	2.00	0.43
8:CM:189:LEU:O	8:CM:193:THR:HG23	2.19	0.43
17:CQ:32:PRO:HA	17:CQ:33:PRO:HD3	1.90	0.43
2:CT:33:CYS:HA	2:CT:36:ASN:HB2	2.01	0.43
2:CU:98:LEU:HD11	2:CU:152:TRP:HE1	1.84	0.43
2:CY:126:LEU:HD21	2:CY:139:VAL:HG21	2.00	0.43
32:Cm:127:LEU:HD12	32:Cm:127:LEU:HA	1.79	0.43
33:Cu:107:ASN:HD21	44:EY:421:ASN:HD21	1.66	0.43
33:Cw:114:ILE:HG21	33:Cw:114:ILE:HD13	1.75	0.43
29:D4:216:LYS:O	29:D4:220:ARG:HG3	2.19	0.43
29:D9:161:TYR:OH	29:D9:165:ARG:NH1	2.51	0.43
8:DA:175:PRO:O	8:DA:176:GLN:HG2	2.18	0.43
8:DA:250:VAL:HG11	8:DA:352:LYS:HZ2	1.84	0.43
8:DA:265:ILE:O	8:DA:265:ILE:HG13	2.18	0.43
8:DA:317:MET:O	8:DA:354:GLY:N	2.47	0.43
9:DB:209:ASP:O	9:DB:213:ARG:HG2	2.19	0.43
9:DF:313:VAL:HG23	9:DF:348:ASN:HB2	1.99	0.43
8:DG:191:THR:HA	8:DG:194:THR:HG22	2.01	0.43
9:DJ:116:VAL:HG21	9:DJ:151:LEU:HD21	2.01	0.43
9:DJ:390:ARG:NH1	9:DJ:391:ARG:HG3	2.34	0.43
8:DK:363:VAL:HG13	8:DK:366:GLY:HA3	2.00	0.43
29:DS:201:ARG:NE	29:DS:471:LYS:HZ3	2.14	0.43
29:DV:436:ARG:HH21	29:EA:93:TYR:HE1	1.67	0.43
29:DX:197:CYS:HB3	29:DX:218:LEU:HD21	2.00	0.43
36:Dd:186:ASN:HA	57:YG:91:GLY:HA2	1.99	0.43
9:EF:270:PHE:CD2	9:EF:272:PRO:HD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EG:56:THR:OG1	8:FG:285:GLN:HB2	2.19	0.43
8:EG:231:ILE:O	8:EG:235:VAL:HG12	2.18	0.43
9:EH:257:MET:HE3	9:EH:368:ILE:HG22	2.01	0.43
29:EP:169:GLU:HG3	29:EP:314:ARG:HG2	2.01	0.43
9:FF:148:GLY:O	9:FF:152:ILE:HG13	2.19	0.43
8:FI:326:LYS:HE3	9:FJ:212:PHE:CG	2.54	0.43
9:GB:403:MET:HE3	9:GB:403:MET:HB2	1.86	0.43
8:GE:204:VAL:HG21	8:GE:231:ILE:HD11	1.99	0.43
8:GE:290:GLU:OE2	8:GE:291:ILE:HG13	2.18	0.43
8:GG:178:SER:HB2	8:GG:183:GLU:OE2	2.18	0.43
8:GI:132:LEU:HB3	8:GI:164:LYS:HE2	2.00	0.43
9:GJ:167:PHE:HE2	9:GJ:233:MET:HB2	1.84	0.43
9:GL:143:THR:OG1	69:GL:501:GDP:O3B	2.36	0.43
8:GM:367:ASP:OD1	8:GM:367:ASP:N	2.41	0.43
9:HD:19:LYS:HA	9:HD:19:LYS:HD3	1.84	0.43
8:HE:1:MET:HB2	9:HF:70:PRO:HG2	2.00	0.43
8:HE:169:PHE:CE1	8:HE:202:PHE:HD1	2.37	0.43
8:HE:417:GLU:OE2	8:HE:417:GLU:N	2.40	0.43
8:HG:47:ASP:HB3	8:HG:48:SER:H	1.65	0.43
8:HG:327:ASP:OD1	8:HG:327:ASP:N	2.51	0.43
9:HH:206:ALA:O	9:HH:210:ILE:HG23	2.19	0.43
8:HO:311:LYS:H	8:HO:382:THR:HB	1.83	0.43
47:I:174:ILE:HG23	47:I:181:PHE:HB2	2.00	0.43
8:IC:30:ILE:HD13	8:IC:30:ILE:HA	1.80	0.43
9:IH:257:MET:HE2	9:IH:368:ILE:HG22	2.00	0.43
8:IK:242:LEU:HD11	8:IK:252:LEU:HG	2.00	0.43
9:IL:52:ASN:O	9:IL:60:VAL:N	2.39	0.43
9:IL:267:MET:HE2	9:IL:299:MET:SD	2.58	0.43
8:IM:324:VAL:HG23	8:IM:327:ASP:HB2	2.01	0.43
9:IN:5:VAL:HG23	9:IN:130:LEU:HD11	2.01	0.43
9:JB:242:PHE:CG	9:JB:356:ILE:HD12	2.53	0.43
8:JG:168:GLU:HB2	8:JG:201:ALA:HA	2.00	0.43
9:JH:292:GLN:HA	9:JH:295:ASP:HB2	2.01	0.43
8:JI:76:ASP:HA	8:JI:79:ARG:HG3	2.00	0.43
8:JI:406:HIS:HA	8:JI:409:VAL:HG22	2.01	0.43
9:JL:156:ARG:HD2	9:JL:156:ARG:HA	1.74	0.43
9:JL:359:ARG:HB2	1:V:150:MET:HE2	2.01	0.43
9:KL:122:LYS:HE2	9:KL:122:LYS:HB2	1.88	0.43
50:L1:45:TYR:HD2	59:a:225:ARG:HH22	1.66	0.43
9:LB:260:PHE:HB2	9:LB:263:LEU:HD13	2.01	0.43
9:LD:10:GLY:O	9:LD:14:ASN:ND2	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LG:193:THR:HG23	8:LG:194:THR:HG23	2.00	0.43
9:LN:48:ASN:N	9:LN:48:ASN:HD22	2.16	0.43
9:MD:216:LYS:HE2	9:MD:216:LYS:HB2	1.87	0.43
8:MG:408:TYR:HD2	8:MG:413:MET:HE1	1.84	0.43
9:MN:334:GLN:HE22	9:MN:347:ASN:HA	1.84	0.43
9:N0:395:LEU:HD23	9:N0:395:LEU:H	1.84	0.43
9:NB:51:TYR:HA	9:NB:61:PRO:HA	2.00	0.43
9:NJ:204:ASN:ND2	69:NJ:501:GDP:N3	2.60	0.43
8:NK:218:ASP:OD1	8:NK:218:ASP:N	2.50	0.43
9:NL:164:MET:HE2	9:NL:164:MET:HA	2.00	0.43
8:OC:183:GLU:O	8:OC:187:SER:HB3	2.19	0.43
8:OC:196:GLU:HG2	8:OC:197:HIS:ND1	2.34	0.43
8:OC:295:CYS:HB3	8:OC:377:MET:HE2	2.01	0.43
9:OD:357:PRO:HB3	9:OD:363:MET:HA	2.01	0.43
9:OF:139:LEU:HB2	9:OF:169:VAL:O	2.18	0.43
8:OG:5:ILE:HG12	8:OG:132:LEU:HD11	2.01	0.43
8:OG:286:LEU:O	8:OG:373:ARG:NH1	2.52	0.43
9:OH:332:ASN:HA	9:OH:335:ASN:HB2	2.00	0.43
8:OK:229:ARG:HD2	8:OK:363:VAL:HG21	2.01	0.43
8:PG:103:TYR:HE1	8:PG:148:GLY:HA2	1.84	0.43
9:PJ:46:ARG:HG2	9:PJ:241:ARG:HA	1.99	0.43
9:PJ:145:SER:O	9:PJ:149:THR:OG1	2.24	0.43
9:PL:272:PRO:HB3	9:PL:289:LEU:HD11	2.00	0.43
8:QA:271:THR:HG23	8:QA:301:GLN:HA	1.99	0.43
8:QC:32:PRO:HA	8:QC:86:LEU:HD11	2.01	0.43
9:QF:164:MET:HB3	9:QF:164:MET:HE3	1.75	0.43
9:QH:134:GLN:HE22	9:QH:233:MET:HE1	1.84	0.43
8:QI:52:PHE:HZ	8:QI:243:ARG:NE	2.16	0.43
8:QK:130:THR:OG1	8:QK:131:GLY:N	2.52	0.43
8:QK:201:ALA:HB3	8:QK:267:PHE:HD1	1.84	0.43
8:QK:261:PRO:HG3	8:QK:313:MET:HE3	2.01	0.43
9:QL:240:LEU:HD23	9:QL:249:ASP:CB	2.49	0.43
8:QM:52:PHE:HZ	8:QM:239:THR:HG21	1.84	0.43
8:RA:109:THR:OG1	8:RA:110:ILE:N	2.51	0.43
9:RB:127:CYS:HB2	9:RB:130:LEU:HG	2.00	0.43
9:RB:286:VAL:O	9:RB:290:THR:HG23	2.19	0.43
8:RE:9:VAL:HG11	8:RE:150:ALA:HB2	2.00	0.43
9:RH:324:LYS:NZ	8:RI:210:TYR:O	2.48	0.43
9:RJ:345:ILE:HG23	8:RK:398:MET:HE2	2.00	0.43
8:RK:326:LYS:HE2	8:RK:326:LYS:HB2	1.80	0.43
8:RM:313:MET:SD	8:RM:313:MET:N	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SD:8:GLN:CD	9:SD:17:GLY:HA3	2.44	0.43
9:SD:238:THR:OG1	9:SD:318:ARG:NH2	2.39	0.43
8:SE:280:LYS:HE3	8:SE:280:LYS:HB2	1.78	0.43
9:SF:295:ASP:CG	9:SF:297:LYS:HG2	2.44	0.43
8:SG:49:PHE:HD2	8:SG:53:PHE:CD1	2.37	0.43
8:SG:276:ILE:HG13	8:SG:281:ALA:HB2	2.00	0.43
9:SL:21:TRP:CZ3	9:SL:61:PRO:HB3	2.54	0.43
9:SL:390:ARG:O	9:SL:392:LYS:NZ	2.51	0.43
9:SL:412:GLU:HA	9:SL:415:MET:HB2	2.01	0.43
9:TD:33:THR:O	9:TD:58:LYS:NZ	2.52	0.43
9:TD:257:MET:HE2	9:TD:257:MET:HB2	1.78	0.43
9:TF:317:PHE:HB2	9:TF:353:VAL:HG22	2.00	0.43
9:TL:41:ASP:OD1	9:TL:41:ASP:N	2.48	0.43
9:TL:210:ILE:HD12	9:TL:300:MET:HE1	2.00	0.43
8:UG:369:ALA:HA	59:c:208:GLN:HE22	1.84	0.43
8:UK:17:GLY:HA2	8:UK:20:CYS:HB3	1.99	0.43
9:UL:100:ASN:HD22	9:UL:103:LYS:HB2	1.84	0.43
9:UN:330:MET:N	9:UN:330:MET:SD	2.90	0.43
8:VC:346:TRP:CH2	9:VD:394:PHE:HE2	2.36	0.43
9:VJ:176:SER:OG	9:VJ:178:THR:O	2.33	0.43
9:VJ:336:LYS:HE2	9:VJ:336:LYS:HB3	1.87	0.43
9:VN:1:MET:N	9:VN:3:GLU:OE2	2.51	0.43
9:VN:279:GLN:HG3	59:b:234:ARG:NH1	2.34	0.43
8:WC:242:LEU:HD11	8:WC:252:LEU:HD11	2.01	0.43
8:WM:26:LEU:HD22	8:WM:363:VAL:HG12	2.01	0.43
8:WM:172:TYR:CD1	8:WM:203:MET:HE1	2.54	0.43
9:WN:398:TYR:O	9:WN:403:MET:HB2	2.19	0.43
47:X:518:SER:OG	47:X:519:ASN:N	2.52	0.43
56:XI:111:THR:OG1	56:XI:113:ARG:NH2	2.40	0.43
60:f:131:SER:OG	60:f:131:SER:O	2.37	0.43
60:g:523:SER:HB3	60:g:551:VAL:HG13	2.00	0.43
3:x:121:GLY:HA2	3:x:124:ARG:HE	1.84	0.43
2:0Y:101:CYS:O	2:0Y:105:VAL:HG12	2.19	0.43
3:2:26:VAL:HA	3:2:41:LYS:HA	2.00	0.43
7:A1:110:LYS:HA	7:A1:110:LYS:HD3	1.88	0.43
7:A2:40:LYS:H	7:A2:40:LYS:HG2	1.71	0.43
8:AA:121:ARG:HD2	8:AA:121:ARG:HA	1.78	0.43
8:AE:419:SER:HA	8:AE:422:ARG:HB3	2.01	0.43
9:AF:152:ILE:HG22	9:AF:195:ASN:HB3	2.00	0.43
9:AH:404:ASP:OD2	9:AH:405:GLU:N	2.52	0.43
9:AL:314:ALA:HB3	9:AL:368:ILE:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AM:26:LEU:HD23	8:AM:26:LEU:HA	1.89	0.43
13:Aa:420:LEU:HG	13:Aa:515:THR:HG22	2.01	0.43
13:Ab:222:TRP:CE2	13:Ab:335:ARG:HG3	2.53	0.43
13:Ad:352:THR:HG21	48:M:75:VAL:HA	2.00	0.43
14:Al:17:ILE:HD11	8:DE:84:ARG:HD2	2.01	0.43
14:Al:24:TYR:CD2	14:Al:42:LEU:HD22	2.54	0.43
14:An:23:PHE:HB2	9:DL:48:ASN:ND2	2.33	0.43
16:At:226:HIS:N	8:EK:116:ASP:OD2	2.52	0.43
14:B7:48:VAL:O	14:B7:50:LYS:NZ	2.51	0.43
9:BB:134:GLN:HB2	9:BB:165:ASN:HB2	1.99	0.43
8:BC:195:LEU:HD21	8:BC:428:LEU:HD13	2.01	0.43
8:BE:260:VAL:HG13	8:BE:266:HIS:HB3	2.00	0.43
8:BI:129:CYS:SG	8:BI:132:LEU:HB3	2.59	0.43
8:BK:107:HIS:ND1	8:BK:152:LEU:HB2	2.33	0.43
8:BK:265:ILE:HG23	8:BK:432:TYR:CZ	2.53	0.43
8:BM:377:MET:HE2	8:BM:379:SER:HB3	2.00	0.43
19:BQ:184:TYR:CD1	35:Da:208:ARG:HD2	2.54	0.43
19:BR:194:LYS:H	19:BR:194:LYS:HG2	1.59	0.43
21:BV:66:ALA:HB1	9:ML:55:THR:HG21	2.00	0.43
21:BV:311:ARG:HH21	35:Da:126:PRO:HD2	1.83	0.43
24:Bh:26:PRO:HB2	24:Bh:38:MET:HA	2.01	0.43
21:Bj:242:GLU:HG3	9:KB:361:LEU:HA	2.01	0.43
28:C3:413:ARG:HH21	28:C3:418:LEU:HD21	1.84	0.43
8:CA:262:TYR:HD2	8:CA:265:ILE:HD11	1.84	0.43
8:CC:227:LEU:O	8:CC:231:ILE:HG22	2.18	0.43
8:CC:334:THR:O	8:CC:338:LYS:HE2	2.18	0.43
8:CE:18:ASN:ND2	8:CE:77:GLU:OE1	2.52	0.43
9:CF:155:ILE:HD12	9:CF:155:ILE:HA	1.88	0.43
8:CG:96:LYS:HD2	8:CG:96:LYS:HA	1.86	0.43
9:CH:263:LEU:HD21	9:CH:421:GLU:OE2	2.19	0.43
9:CJ:374:ILE:HG23	9:CJ:422:TYR:HE2	1.84	0.43
9:CL:103:LYS:O	9:CL:109:GLY:N	2.49	0.43
14:CN:30:ARG:HD2	14:CN:30:ARG:HA	1.72	0.43
2:CU:14:GLN:O	2:CU:18:ILE:HG12	2.18	0.43
30:CW:368:LYS:HA	30:CW:368:LYS:HD3	1.80	0.43
2:Ck:100:LYS:HB2	2:Ck:100:LYS:HE2	1.86	0.43
33:Cq:417:ARG:NH2	44:ET:70:ASP:OD2	2.49	0.43
33:Cs:185:ILE:HD11	43:E4:137:VAL:HG11	2.01	0.43
33:Cu:61:ARG:NH1	33:Cy:317:ARG:HH22	2.16	0.43
33:Cx:161:LYS:HD3	33:Cx:161:LYS:HA	1.87	0.43
29:D3:177:LYS:NZ	29:D3:236:ALA:HB1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:105:GLN:HE22	29:D5:454:LEU:HD13	1.83	0.43
29:D4:169:GLU:HG3	29:D4:314:ARG:HG3	2.01	0.43
29:D8:405:ARG:NH2	29:D8:411:CYS:H	2.17	0.43
8:DA:211:ASP:HB3	8:DA:214:ARG:HH21	1.83	0.43
9:DB:330:MET:HE1	9:DB:349:VAL:HG21	2.00	0.43
9:DD:306:ARG:HE	9:DD:306:ARG:HB3	1.72	0.43
8:DE:112:LYS:H	8:DE:112:LYS:HG2	1.62	0.43
8:DI:229:ARG:NH1	8:DI:365:GLY:O	2.52	0.43
29:DS:457:GLU:O	29:DS:461:LYS:HG2	2.18	0.43
38:Dh:72:LYS:HA	38:Dh:72:LYS:HD3	1.66	0.43
40:Dm:78:THR:HG22	40:Dm:80:ALA:H	1.84	0.43
9:EB:300:MET:SD	9:EB:300:MET:N	2.92	0.43
9:EH:178:THR:HB	9:EH:181:GLU:HG3	2.00	0.43
8:EI:130:THR:OG1	8:EI:131:GLY:N	2.52	0.43
9:EL:66:VAL:HA	9:EL:91:VAL:HG23	2.01	0.43
9:EL:337:ASN:OD1	9:EL:337:ASN:N	2.51	0.43
8:EM:188:ILE:HG23	8:EM:425:LEU:HD21	2.00	0.43
29:EO:90:PHE:HB2	29:EO:91:CYS:H	1.69	0.43
29:EO:130:LYS:HD3	29:EO:130:LYS:HA	1.86	0.43
44:ET:24:ARG:HD3	44:ET:24:ARG:HA	1.78	0.43
44:EY:167:LEU:HD12	44:EY:167:LEU:HA	1.84	0.43
44:EZ:293:LEU:HD23	44:EZ:293:LEU:HA	1.84	0.43
42:F:456:GLU:OE2	9:HJ:55:THR:OG1	2.37	0.43
28:F2:287:VAL:HG21	28:F4:401:ASP:HA	2.00	0.43
28:F4:309:LEU:HA	28:F4:309:LEU:HD12	1.72	0.43
9:FB:282:ARG:NH1	9:FB:284:LEU:HD11	2.33	0.43
9:FB:300:MET:SD	9:FB:300:MET:N	2.91	0.43
8:FC:317:MET:HE1	8:FC:377:MET:HE1	2.01	0.43
9:FD:2:ARG:HG3	9:FD:131:GLN:OE1	2.19	0.43
8:FE:116:ASP:OD1	8:FE:116:ASP:N	2.51	0.43
8:FE:195:LEU:HD12	8:FE:195:LEU:HA	1.91	0.43
8:FE:293:ASN:HB3	8:FE:335:ILE:HD11	2.00	0.43
8:FG:69:ASP:OD1	8:FG:70:LEU:N	2.52	0.43
8:FM:107:HIS:CD2	8:FM:152:LEU:HB2	2.53	0.43
8:FM:313:MET:HA	8:FM:344:VAL:HG21	2.01	0.43
9:FN:305:PRO:O	9:FN:307:HIS:ND1	2.52	0.43
9:GB:152:ILE:HG22	9:GB:195:ASN:HD22	1.82	0.43
9:GB:255:VAL:HG23	8:GC:407:TRP:CG	2.53	0.43
8:GC:182:VAL:O	8:GC:186:ASN:ND2	2.52	0.43
8:GC:360:PRO:HG3	8:GC:374:ALA:HB2	2.00	0.43
8:GE:53:PHE:HA	8:GE:63:PRO:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GE:380:ASN:OD1	8:GE:380:ASN:N	2.52	0.43
9:GF:180:VAL:HG12	9:GF:183:TYR:HB2	2.00	0.43
9:GF:334:GLN:HE21	9:GF:334:GLN:HB2	1.60	0.43
9:GH:178:THR:HB	9:GH:181:GLU:HG3	1.99	0.43
9:GL:30:ILE:HD12	9:GL:51:TYR:HE1	1.83	0.43
8:GM:319:TYR:HB2	8:GM:355:ILE:HD13	2.01	0.43
8:HE:261:PRO:HB2	8:HE:262:TYR:HD1	1.84	0.43
9:HF:32:PRO:HA	9:HF:81:PHE:CD2	2.52	0.43
47:I:419:VAL:HG21	47:I:421:ARG:CZ	2.49	0.43
8:IC:264:ARG:NH2	8:IC:424:ASP:OD1	2.52	0.43
8:IC:286:LEU:HA	8:IC:290:GLU:OE2	2.19	0.43
9:IH:176:SER:HB3	9:IH:181:GLU:OE1	2.19	0.43
8:II:311:LYS:H	8:II:382:THR:HB	1.84	0.43
8:IK:137:ILE:HB	8:IK:168:GLU:OE1	2.19	0.43
8:IM:103:TYR:CD1	8:IM:148:GLY:HA2	2.54	0.43
8:IO:198:SER:OG	8:IO:199:ASP:N	2.51	0.43
8:IO:433:GLU:OE2	8:IO:433:GLU:N	2.52	0.43
9:JB:119:VAL:O	9:JB:123:GLU:HG3	2.19	0.43
9:JD:68:LEU:HD12	9:JD:97:ALA:HB2	2.01	0.43
8:JE:125:LEU:HD23	8:JE:125:LEU:HA	1.92	0.43
9:JF:60:VAL:HA	9:JF:61:PRO:HD3	1.94	0.43
9:JH:247:ASN:ND2	8:JI:71:GLU:OE2	2.39	0.43
9:JL:260:PHE:HB2	9:JL:263:LEU:HD12	2.00	0.43
8:JM:392:ASP:HB3	51:O:53:ARG:NH2	2.33	0.43
8:KC:334:THR:O	8:KC:337:THR:OG1	2.35	0.43
9:KD:167:PHE:CD2	9:KD:233:MET:HG2	2.52	0.43
9:KD:364:SER:OG	9:KD:365:ALA:N	2.50	0.43
8:KG:76:ASP:HA	8:KG:79:ARG:HD2	2.00	0.43
8:KG:160:ASP:OD1	8:KG:160:ASP:N	2.52	0.43
9:KH:64:VAL:HG21	9:KH:120:VAL:HG12	2.00	0.43
9:KJ:257:MET:HE3	9:KJ:257:MET:HB3	1.86	0.43
48:L:75:VAL:O	48:L:79:LEU:HG	2.19	0.43
9:LD:154:LYS:HA	9:LD:154:LYS:HD3	1.83	0.43
8:LK:104:ALA:HB2	8:LK:413:MET:HE2	2.01	0.43
9:LN:246:LEU:HD12	9:LN:246:LEU:HA	1.90	0.43
8:MC:239:THR:O	8:MC:243:ARG:NE	2.49	0.43
9:MJ:8:GLN:HG3	9:MJ:65:LEU:HG	2.01	0.43
9:ML:122:LYS:HA	9:ML:122:LYS:HD2	1.81	0.43
9:ML:424:GLN:HE22	54:T:119:ASN:HA	1.84	0.43
9:N0:318:ARG:HE	9:N0:358:PRO:HD3	1.84	0.43
8:NA:62:VAL:HG13	8:OA:283:HIS:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NC:142:GLY:HA2	8:NC:183:GLU:HG2	2.01	0.43
9:ND:60:VAL:HG21	9:OD:281:TYR:HB3	2.00	0.43
9:ND:189:VAL:HG12	9:ND:193:VAL:HG23	2.00	0.43
51:O:123:GLN:HG2	51:O:128:ARG:HA	2.00	0.43
9:O0:309:ARG:HD3	9:O0:342:VAL:HA	1.99	0.43
9:O0:321:MET:HE2	9:O0:321:MET:HB3	1.77	0.43
9:OB:221:THR:OG1	9:OB:222:TYR:N	2.52	0.43
8:OC:103:TYR:HD2	8:OC:189:LEU:HD13	1.84	0.43
8:OC:405:VAL:HG13	8:OC:418:PHE:HE2	1.83	0.43
9:OD:158:GLU:OE1	9:OD:158:GLU:N	2.49	0.43
9:OF:363:MET:HE2	9:OF:363:MET:HB3	1.76	0.43
8:OG:155:GLU:HA	8:OG:197:HIS:CD2	2.54	0.43
8:OG:319:TYR:HB2	8:OG:355:ILE:HD13	2.01	0.43
8:OK:306:ASP:OD2	8:OK:309:HIS:ND1	2.52	0.43
9:PB:395:LEU:HA	9:PB:398:TYR:HB2	2.01	0.43
8:PC:60:LYS:HZ1	8:PC:86:LEU:HA	1.83	0.43
8:PC:250:VAL:HB	8:PC:254:GLU:OE1	2.19	0.43
9:PD:217:LEU:HD23	9:PD:217:LEU:HA	1.90	0.43
9:PD:330:MET:HB3	9:PD:349:VAL:HG11	2.01	0.43
9:PH:299:MET:HE2	9:PH:299:MET:HB2	1.86	0.43
9:PJ:253:LEU:HD23	9:PJ:253:LEU:HA	1.83	0.43
8:PK:54:SER:OG	8:PK:64:ARG:NH2	2.52	0.43
9:PL:54:ALA:HA	9:QL:283:ALA:HB2	2.01	0.43
53:Q:101:ASP:HA	53:Q:105:ASN:HB2	2.01	0.43
8:QA:418:PHE:O	8:QA:422:ARG:HG2	2.19	0.43
8:QC:189:LEU:HD11	8:QC:422:ARG:HH12	1.83	0.43
8:QC:264:ARG:HH21	8:QC:428:LEU:HD22	1.84	0.43
9:QD:68:LEU:HB3	9:QD:96:GLY:HA2	1.99	0.43
8:QE:1:MET:HA	8:QE:131:GLY:HA3	2.00	0.43
8:QE:94:THR:OG1	8:QE:95:GLY:N	2.52	0.43
8:QE:115:VAL:HG22	8:QE:119:LEU:HD23	2.01	0.43
9:QF:383:GLU:HA	9:QF:386:THR:HG22	2.00	0.43
8:QI:437:VAL:O	9:QJ:391:ARG:NH1	2.46	0.43
8:QK:230:LEU:HD23	8:QK:230:LEU:HA	1.88	0.43
9:RF:49:VAL:HG21	9:RF:240:LEU:HD11	2.01	0.43
9:RF:203:ASP:OD2	9:RF:206:ALA:N	2.47	0.43
9:RF:316:VAL:HA	9:RF:352:ALA:HB3	2.00	0.43
8:RG:338:LYS:HB2	8:RG:341:ILE:HD12	2.01	0.43
9:RH:16:ILE:HD11	9:RH:136:THR:HG21	2.00	0.43
9:RJ:48:ASN:O	9:RJ:62:ARG:NH2	2.51	0.43
9:RJ:356:ILE:HA	9:RJ:357:PRO:HD3	1.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RK:280:LYS:HE2	8:RK:280:LYS:HB2	1.85	0.43
8:SA:316:CYS:HB2	8:SA:378:LEU:HB2	2.01	0.43
8:SC:265:ILE:HG23	8:SC:432:TYR:CE1	2.54	0.43
9:SD:350:LYS:HD2	8:SE:180:ALA:HA	2.00	0.43
9:SH:16:ILE:HG13	9:SH:226:ASN:OD1	2.19	0.43
8:SK:127:ASP:OD1	8:SK:127:ASP:N	2.51	0.43
8:SK:206:ASN:ND2	67:SK:501:GTP:O2'	2.51	0.43
8:SK:238:ILE:HD12	8:SK:255:PHE:HE2	1.84	0.43
8:SM:70:LEU:HA	8:SM:95:GLY:HA3	2.01	0.43
9:TB:207:LEU:HD12	9:TB:225:LEU:HG	1.99	0.43
9:TB:346:PRO:HD2	8:TC:398:MET:HE2	2.00	0.43
8:TI:277:SER:OG	8:TI:278:ALA:N	2.52	0.43
9:TJ:174:LYS:HB3	9:TJ:175:VAL:H	1.50	0.43
9:UB:116:VAL:O	9:UB:120:VAL:HG12	2.19	0.43
9:UD:237:THR:OG1	9:UD:241:ARG:NH1	2.23	0.43
9:UF:322:SER:HB2	8:UG:223:THR:HG22	2.00	0.43
9:UL:337:ASN:HD22	9:UL:340:TYR:HB2	1.84	0.43
8:UM:346:TRP:CD1	9:UN:391:ARG:HE	2.37	0.43
9:UN:131:GLN:HE22	9:UN:249:ASP:HB2	1.84	0.43
9:VB:241:ARG:HG3	9:VB:242:PHE:CD2	2.54	0.43
8:VC:311:LYS:HD3	8:VC:342:GLN:HE22	1.83	0.43
8:VE:183:GLU:O	8:VE:187:SER:HB2	2.18	0.43
9:VF:40:SER:OG	9:VF:41:ASP:N	2.52	0.43
9:VH:309:ARG:HH22	9:VH:427:ASP:HA	1.84	0.43
8:VI:250:VAL:HA	8:VI:254:GLU:OE2	2.19	0.43
9:VL:309:ARG:NH1	9:VL:341:PHE:O	2.52	0.43
9:VL:321:MET:HE1	9:VL:326:VAL:HG21	2.01	0.43
9:VN:49:VAL:HG11	9:VN:241:ARG:HB3	2.01	0.43
9:VN:101:TRP:HD1	9:VN:403:MET:HE1	1.84	0.43
9:VN:280:GLN:HG3	59:b:234:ARG:CZ	2.49	0.43
55:W:186:ARG:HD3	55:W:186:ARG:HA	1.72	0.43
9:WB:257:MET:O	9:WB:312:THR:OG1	2.31	0.43
9:WD:308:GLY:HA3	9:WD:373:ALA:HB2	2.01	0.43
9:WH:257:MET:HB3	9:WH:266:PHE:CZ	2.54	0.43
8:WK:240:ALA:HB1	8:WK:356:ASN:ND2	2.34	0.43
56:XG:175:ASP:OD1	56:XG:176:GLU:N	2.51	0.43
56:XH:103:PHE:HD1	56:XH:119:CYS:HB3	1.82	0.43
56:XH:111:THR:OG1	56:XH:113:ARG:NH1	2.51	0.43
57:YH:221:ILE:O	57:YH:225:ILE:HG13	2.18	0.43
59:a:130:LYS:HE2	59:a:130:LYS:HB3	1.69	0.43
59:b:297:ARG:HE	59:b:301:GLN:HG2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:b:308:LYS:HA	59:b:308:LYS:HD2	1.79	0.43
60:f:510:CYS:SG	60:f:523:SER:OG	2.65	0.43
60:g:208:LYS:H	60:g:208:LYS:HG3	1.67	0.43
60:g:357:LYS:HZ2	60:g:376:PRO:HA	1.84	0.43
63:k:45:ASN:OD1	63:k:45:ASN:N	2.51	0.43
3:x:45:ARG:HH11	3:x:84:GLY:HA2	1.84	0.43
4:y:1399:MET:HB2	4:y:1399:MET:HE2	1.50	0.43
2:0c:34:ARG:HH12	2:0c:40:LYS:HD3	1.78	0.43
6:A0:176:LYS:HE3	6:A0:176:LYS:HB3	1.86	0.43
7:A8:178:LYS:HA	7:A8:178:LYS:HE3	2.01	0.43
9:AH:28:HIS:HA	9:AH:43:GLN:HG2	2.01	0.43
9:AJ:68:LEU:HA	9:AJ:93:GLY:H	1.84	0.43
8:AM:388:TRP:HD1	8:AM:425:LEU:HD21	1.84	0.43
11:AT:191:LYS:HA	11:AT:194:LYS:HE2	2.01	0.43
11:AU:477:ILE:HD13	11:AU:477:ILE:HA	1.89	0.43
13:Ab:308:LYS:C	13:Ab:309:TYR:HD1	2.27	0.43
13:Ac:243:ASP:OD1	13:Ac:243:ASP:N	2.51	0.43
13:Ad:461:TYR:HB3	9:FB:276:ARG:HH12	1.84	0.43
16:At:259:ALA:C	8:FI:308:ARG:HH11	2.25	0.43
16:Ax:120:ASP:N	16:Ax:120:ASP:OD1	2.49	0.43
17:B8:200:GLN:NE2	43:E3:30:ASP:OD2	2.36	0.43
8:BA:88:HIS:HA	8:BA:89:PRO:HD3	1.87	0.43
9:BD:237:THR:HG22	9:BD:250:LEU:HD21	2.01	0.43
8:BI:210:TYR:CE2	8:BI:227:LEU:HD11	2.54	0.43
9:BL:184:ASN:OD1	9:BL:184:ASN:N	2.51	0.43
8:BM:352:LYS:HD3	8:BM:352:LYS:HA	1.69	0.43
14:Bb:205:LEU:HD22	14:Bb:259:ILE:HG22	2.01	0.43
24:Bh:59:LYS:HD3	9:GF:320:ARG:HH12	1.83	0.43
27:Br:129:LYS:HG3	31:Cl:274:VAL:HG11	2.00	0.43
27:Bs:257:LYS:HD3	34:D:114:LEU:HD22	2.01	0.43
26:Bu:301:LEU:HD23	26:Bu:301:LEU:HA	1.92	0.43
18:By:107:ASN:ND2	18:By:110:ASN:OD1	2.51	0.43
29:C1:247:ARG:O	29:C1:247:ARG:NE	2.50	0.43
28:C3:414:ASP:OD1	28:C3:414:ASP:N	2.39	0.43
28:C7:282:SER:HB2	44:EZ:39:SER:HB2	2.00	0.43
28:C9:198:CYS:O	28:C9:202:ARG:HG2	2.19	0.43
28:C9:394:LYS:O	28:C9:398:THR:HG22	2.19	0.43
8:CA:259:LEU:O	8:CA:380:ASN:ND2	2.39	0.43
8:CC:83:TYR:HE2	38:Dh:25:TYR:HD2	1.67	0.43
8:CG:155:GLU:HA	8:CG:197:HIS:CE1	2.53	0.43
8:CK:191:THR:HG23	8:CK:425:LEU:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CL:327:ASP:O	9:CL:331:LEU:HD23	2.19	0.43
8:CM:163:LYS:HA	8:CM:163:LYS:HD2	1.85	0.43
14:CO:216:ARG:HG3	14:CO:217:LYS:HG3	2.01	0.43
2:CU:45:SER:HB2	2:CU:110:ASP:HA	2.01	0.43
2:Cb:27:ILE:HG23	2:Cb:135:TYR:HD2	1.83	0.43
33:Ct:184:ASP:OD1	43:E3:154:HIS:HB2	2.19	0.43
33:Cw:134:GLU:OE2	33:Cw:138:HIS:HE1	2.02	0.43
29:D4:320:LEU:HD23	29:D4:320:LEU:HA	1.88	0.43
29:D8:419:LEU:O	29:D8:422:GLU:HB2	2.19	0.43
29:D9:242:GLN:HE21	29:D9:317:SER:HA	1.82	0.43
8:DA:243:ARG:HH21	8:DA:244:PHE:HZ	1.65	0.43
9:DB:51:TYR:HB3	9:DB:59:TYR:HB3	2.00	0.43
8:DC:27:GLU:HA	8:DC:361:THR:HG21	2.01	0.43
8:DC:75:VAL:HG12	8:DC:79:ARG:CZ	2.49	0.43
9:DD:83:GLN:O	9:ED:281:TYR:OH	2.27	0.43
9:DD:225:LEU:O	9:DD:229:VAL:HG23	2.19	0.43
8:DE:14:VAL:HG11	8:DE:75:VAL:HG22	2.01	0.43
8:DE:133:GLN:HB2	8:DE:252:LEU:HD13	2.01	0.43
8:DE:153:LEU:HD12	8:DE:153:LEU:HA	1.90	0.43
8:DG:437:VAL:O	9:DH:391:ARG:NH2	2.52	0.43
8:DI:208:ALA:HA	8:DI:304:LYS:NZ	2.33	0.43
9:DJ:210:ILE:HD12	9:DJ:210:ILE:HA	1.91	0.43
8:DK:172:TYR:HB2	8:DK:202:PHE:CZ	2.54	0.43
8:DK:320:ARG:HE	8:DK:320:ARG:HB2	1.68	0.43
8:DK:335:ILE:HG21	8:DK:351:PHE:HZ	1.84	0.43
9:DL:284:LEU:HD11	9:DL:362:LYS:HE2	2.01	0.43
29:DU:165:ARG:O	29:DU:169:GLU:HG2	2.19	0.43
37:De:235:TRP:HE1	37:De:238:ARG:CG	2.31	0.43
39:Dj:38:SER:HB2	39:Dj:88:LEU:HD13	2.01	0.43
39:Dl:82:LEU:HD11	9:LN:383:GLU:OE2	2.19	0.43
41:Dn:202:ARG:HD2	8:OE:336:LYS:HE2	2.01	0.43
43:E1:122:ILE:HG21	43:E1:133:ARG:HD2	2.00	0.43
43:E4:151:ILE:HG21	28:F6:120:LEU:HD12	2.00	0.43
8:EE:398:MET:HE1	8:EE:404:PHE:HE2	1.84	0.43
9:EF:312:THR:O	9:EF:370:ASN:N	2.49	0.43
8:EI:7:ILE:HB	8:EI:137:ILE:HA	2.00	0.43
8:EI:206:ASN:HB3	8:EI:210:TYR:HE1	1.83	0.43
8:EK:79:ARG:HB3	8:EK:92:LEU:HD12	2.01	0.43
8:EK:254:GLU:HG2	9:EL:98:GLY:HA2	2.01	0.43
9:EL:164:MET:N	9:EL:197:ASP:OD2	2.44	0.43
9:EL:276:ARG:HD3	9:EL:276:ARG:HA	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EO:164:GLU:OE1	29:EO:165:ARG:HG2	2.19	0.43
29:EP:110:GLU:O	29:EP:114:LEU:HD23	2.18	0.43
44:EW:54:ASP:OD1	44:EW:54:ASP:N	2.52	0.43
44:EW:439:THR:OG1	44:EW:440:VAL:N	2.51	0.43
42:F:366:THR:HG23	42:F:369:ILE:HB	2.01	0.43
28:F3:428:ASP:O	28:F3:432:GLN:HG2	2.19	0.43
28:F4:205:ARG:NH1	28:F4:209:ASP:O	2.52	0.43
28:F6:149:ARG:O	28:F6:149:ARG:HD2	2.19	0.43
8:FE:2:ARG:O	8:FE:133:GLN:NE2	2.52	0.43
8:FE:219:ILE:HD11	8:FE:222:PRO:HB3	2.01	0.43
9:FH:347:ASN:CG	8:FI:177:VAL:HB	2.44	0.43
8:FI:163:LYS:HD2	8:FI:163:LYS:HA	1.69	0.43
8:FI:271:THR:O	8:FI:377:MET:HB3	2.19	0.43
9:FN:381:ILE:HD13	9:FN:381:ILE:HA	1.85	0.43
45:G:22:ASP:HB3	8:GI:357:TYR:CE1	2.54	0.43
8:GC:164:LYS:HD2	8:GC:164:LYS:HA	1.79	0.43
8:GG:209:ILE:H	8:GG:209:ILE:HD12	1.84	0.43
9:GH:43:GLN:H	9:GH:43:GLN:HG2	1.69	0.43
8:GK:269:LEU:HD12	8:GK:269:LEU:HA	1.74	0.43
9:HL:23:VAL:O	9:HL:27:GLU:HB2	2.19	0.43
9:HL:388:MET:HE2	9:HL:394:PHE:CE2	2.53	0.43
8:IC:210:TYR:CE1	8:IC:227:LEU:HD11	2.54	0.43
9:ID:375:GLN:HE21	9:ID:423:GLN:NE2	2.17	0.43
9:IF:36:TYR:O	9:IF:37:HIS:ND1	2.52	0.43
9:IH:19:LYS:NZ	9:IH:223:GLY:O	2.51	0.43
8:II:264:ARG:NH2	8:II:424:ASP:OD1	2.52	0.43
8:II:286:LEU:O	8:II:373:ARG:NH1	2.52	0.43
8:IO:381:THR:HG23	8:IO:383:ALA:H	1.84	0.43
8:JC:166:LYS:HB2	8:JC:166:LYS:HE2	1.85	0.43
9:JF:336:LYS:HA	9:JF:336:LYS:HD2	1.88	0.43
9:JH:117:LEU:HD11	9:JH:154:LYS:HB3	2.01	0.43
9:JH:331:LEU:HD22	8:JI:177:VAL:HG12	2.01	0.43
8:JI:258:ASN:HD21	9:JJ:178:THR:HG23	1.84	0.43
8:JK:192:HIS:ND1	8:JK:424:ASP:OD2	2.48	0.43
8:JM:214:ARG:O	51:O:35:LYS:NZ	2.26	0.43
9:KB:215:LEU:HD21	9:KB:273:LEU:HD22	2.00	0.43
8:KC:215:ARG:NH1	8:KC:299:ALA:O	2.52	0.43
9:KD:193:VAL:HG23	9:KD:194:GLU:OE1	2.19	0.43
8:KG:93:ILE:HD11	8:KG:121:ARG:HG3	2.00	0.43
8:KI:320:ARG:HD3	8:KI:360:PRO:HG3	2.00	0.43
9:KN:25:SER:HB3	9:KN:30:ILE:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KO:168:GLU:HB2	8:KO:201:ALA:HA	2.00	0.43
8:KO:220:GLU:HG2	8:KO:221:ARG:HG2	2.00	0.43
8:KO:349:THR:OG1	8:KO:350:GLY:N	2.52	0.43
8:LC:110:ILE:O	8:LC:113:GLU:HB2	2.19	0.43
9:LF:249:ASP:OD1	9:LF:249:ASP:N	2.48	0.43
9:MB:73:MET:HE1	9:MB:92:PHE:HB3	2.01	0.43
8:MC:200:CYS:HA	8:MC:266:HIS:HB2	2.01	0.43
8:ME:112:LYS:HB2	8:ME:112:LYS:HE3	1.85	0.43
9:MF:383:GLU:HA	9:MF:386:THR:HG22	1.99	0.43
8:MG:168:GLU:HG2	8:MG:201:ALA:HA	2.01	0.43
9:MH:68:LEU:HD12	9:MH:97:ALA:HB2	2.00	0.43
9:MH:205:GLU:OE1	9:MH:205:GLU:N	2.35	0.43
8:MK:98:ASP:OD1	8:MK:98:ASP:N	2.49	0.43
9:N0:204:ASN:ND2	69:N0:501:GDP:N3	2.64	0.43
8:NE:317:MET:HG3	8:NE:377:MET:HG2	2.01	0.43
8:NG:196:GLU:HG2	8:NG:197:HIS:CD2	2.53	0.43
8:NG:406:HIS:HA	8:NG:409:VAL:HG22	2.01	0.43
9:NJ:246:LEU:HD12	9:NJ:246:LEU:HA	1.87	0.43
8:NK:336:LYS:HD3	8:NK:351:PHE:CE1	2.46	0.43
9:NL:382:SER:O	9:NL:386:THR:HG23	2.19	0.43
9:O0:2:ARG:NH2	8:OA:71:GLU:OE1	2.52	0.43
8:OA:274:PRO:HG2	8:OA:374:ALA:HA	2.01	0.43
9:OB:1:MET:N	9:OB:3:GLU:OE1	2.43	0.43
8:OC:306:ASP:N	8:OC:306:ASP:OD1	2.48	0.43
8:OE:126:ALA:HA	8:OE:129:CYS:SG	2.59	0.43
9:OF:213:ARG:HE	9:OF:213:ARG:HB3	1.69	0.43
9:OH:16:ILE:O	9:OH:20:PHE:N	2.52	0.43
8:OK:27:GLU:OE2	8:OK:28:HIS:NE2	2.52	0.43
8:OK:164:LYS:HB2	8:OK:164:LYS:HE2	1.83	0.43
52:P:71:PHE:C	52:P:72:ARG:HE	2.27	0.43
8:PE:99:ALA:HA	8:PE:105:ARG:HG2	2.01	0.43
8:PE:195:LEU:HA	8:PE:195:LEU:HD13	1.88	0.43
9:PF:276:ARG:HA	9:PF:276:ARG:NE	2.34	0.43
8:PG:234:ILE:HD11	8:PG:272:TYR:HB2	2.01	0.43
8:PG:428:LEU:HA	8:PG:431:ASP:OD2	2.19	0.43
8:PI:150:ALA:O	8:PI:154:MET:HG3	2.18	0.43
8:PK:310:GLY:HA3	8:PK:383:ALA:HB2	2.01	0.43
8:PK:362:VAL:HG22	8:PK:370:LYS:HZ3	1.84	0.43
9:PL:247:ASN:OD1	9:PL:247:ASN:N	2.52	0.43
8:QA:211:ASP:OD2	8:QA:215:ARG:NH1	2.52	0.43
9:QD:46:ARG:HH21	8:QE:73:THR:HA	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QD:260:PHE:HB2	9:QD:263:LEU:HD13	2.01	0.43
8:QE:313:MET:SD	8:QE:380:ASN:ND2	2.92	0.43
9:QF:112:LEU:HB3	9:QF:147:MET:HE1	2.00	0.43
9:QF:177:ASP:OD2	69:QF:501:GDP:O2'	2.34	0.43
8:QI:304:LYS:HD2	8:QI:304:LYS:HA	1.63	0.43
9:QJ:292:GLN:O	9:QJ:298:ASN:ND2	2.44	0.43
8:RA:56:THR:HG23	8:RA:58:ALA:H	1.83	0.43
9:RB:152:ILE:O	9:RB:156:ARG:HG2	2.19	0.43
8:RC:18:ASN:ND2	8:RC:78:VAL:HG22	2.34	0.43
8:RE:186:ASN:N	8:RE:186:ASN:OD1	2.52	0.43
8:RI:140:SER:HA	8:RI:171:ILE:HB	2.01	0.43
8:RK:30:ILE:HD13	8:RK:36:MET:HE1	2.01	0.43
9:RL:252:LYS:NZ	8:RM:101:ASN:OD1	2.39	0.43
8:RM:55:GLU:C	8:SM:285:GLN:HE22	2.27	0.43
8:SC:106:GLY:HA2	8:SC:110:ILE:HG22	2.01	0.43
8:SE:226:ASN:OD1	8:SE:226:ASN:N	2.52	0.43
8:SG:396:ASP:N	8:SG:396:ASP:OD2	2.52	0.43
8:SI:24:TYR:HE2	8:SI:52:PHE:HE2	1.65	0.43
8:SI:238:ILE:HD11	8:SI:378:LEU:HD21	2.01	0.43
8:SM:82:THR:HG23	8:SM:83:TYR:CD2	2.54	0.43
9:TB:293:MET:HE3	9:TB:367:PHE:HB2	2.01	0.43
9:TB:304:ASP:HA	9:TB:305:PRO:HD3	1.91	0.43
9:UF:274:THR:OG1	9:UF:275:SER:N	2.51	0.43
9:UH:375:GLN:HE22	9:UH:419:VAL:HG13	1.84	0.43
8:UI:330:ALA:O	8:UI:334:THR:HG23	2.19	0.43
9:UL:22:GLU:HG2	9:UL:81:PHE:CD1	2.54	0.43
9:UL:139:LEU:HD23	9:UL:139:LEU:HA	1.89	0.43
9:UN:318:ARG:HB3	9:UN:364:SER:HB2	2.01	0.43
8:VE:36:MET:HE3	8:VE:37:PRO:HD2	2.01	0.43
8:VG:67:PHE:HE2	8:VG:78:VAL:HG21	1.84	0.43
8:VG:392:ASP:HB3	8:VG:425:LEU:HD21	2.01	0.43
9:VH:206:ALA:O	9:VH:210:ILE:HG12	2.19	0.43
8:VK:206:ASN:OD1	67:VK:501:GTP:N2	2.52	0.43
8:VM:70:LEU:HD22	8:VM:114:ILE:HD11	2.00	0.43
9:WB:12:CYS:O	9:WB:16:ILE:HG13	2.19	0.43
9:WB:21:TRP:O	9:WB:25:SER:HB2	2.19	0.43
9:WB:313:VAL:HG12	9:WB:349:VAL:HG13	2.01	0.43
8:WC:174:ALA:HA	8:WC:205:ASP:OD1	2.19	0.43
9:WD:309:ARG:NH1	9:WD:341:PHE:O	2.48	0.43
9:WF:149:THR:O	9:WF:191:GLN:NE2	2.50	0.43
8:WG:422:ARG:HD2	8:WG:422:ARG:HA	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WI:21:TRP:CZ3	8:WI:63:PRO:HB3	2.54	0.43
9:WJ:331:LEU:HD23	8:WK:177:VAL:HG23	2.01	0.43
8:WK:320:ARG:HG2	8:WK:374:ALA:HB3	2.01	0.43
8:WM:296:PHE:CE1	8:WM:335:ILE:HD13	2.54	0.43
47:X:426:LEU:HB2	47:X:438:PHE:CE2	2.54	0.43
47:X:438:PHE:HD1	47:X:453:GLU:HG3	1.84	0.43
56:XI:146:THR:OG1	56:XI:147:ASN:N	2.51	0.43
57:YH:85:LEU:HD12	57:YH:85:LEU:HA	1.90	0.43
59:b:400:TRP:HA	59:b:403:LYS:HE2	1.99	0.43
59:b:452:ARG:HH12	59:b:456:GLU:HB2	1.83	0.43
59:b:484:GLN:O	59:b:487:GLN:HG3	2.19	0.43
59:d:365:LYS:HD3	59:d:365:LYS:HA	1.74	0.43
60:e:561:VAL:HG13	60:e:622:PRO:HG2	2.01	0.43
60:g:263:LYS:HD3	60:g:263:LYS:HA	1.71	0.43
46:o:420:LYS:HA	46:o:420:LYS:HD2	1.78	0.43
58:q:138:ARG:HG2	58:q:142:GLU:OE1	2.19	0.43
3:x:119:ILE:HD11	3:x:142:LEU:CD2	2.47	0.43
4:z:1425:GLN:O	4:z:1429:VAL:HG12	2.18	0.43
2:0e:17:LYS:HE3	2:0e:17:LYS:HB3	1.81	0.42
2:0i:142:ILE:H	2:0i:142:ILE:HD12	1.84	0.42
6:A0:200:GLY:HA3	6:A0:201:PRO:HD3	1.82	0.42
8:AC:153:LEU:HD12	8:AC:153:LEU:HA	1.91	0.42
9:AF:114:ASP:OD1	9:AF:114:ASP:N	2.52	0.42
12:AW:290:LYS:O	61:h:71:GLN:NE2	2.52	0.42
13:Aa:166:LYS:HE2	20:BT:252:GLU:H	1.83	0.42
13:Ab:271:PRO:HD3	13:Ab:318:PHE:HE1	1.84	0.42
7:Ay:45:LYS:O	8:FK:96:LYS:NZ	2.39	0.42
9:BL:171:PRO:O	9:BL:380:ARG:NH2	2.48	0.42
21:BV:290:GLN:HG3	35:Da:144:GLU:HB2	2.01	0.42
22:BW:109:HIS:H	22:BW:134:LEU:HD22	1.84	0.42
27:Bs:136:GLU:CD	8:HO:370:LYS:HD2	2.44	0.42
28:C2:248:ARG:HE	33:Cw:417:ARG:HG3	1.83	0.42
8:CA:234:ILE:HD11	8:CA:270:ALA:HB1	2.00	0.42
8:CC:250:VAL:HG13	8:CC:254:GLU:HB2	1.99	0.42
8:CE:327:ASP:HA	8:CE:330:ALA:HB3	2.00	0.42
9:CJ:73:MET:HA	9:CJ:73:MET:HE3	2.00	0.42
9:CJ:375:GLN:HB2	9:CJ:419:VAL:HG23	2.01	0.42
8:CK:390:ARG:HE	8:CK:390:ARG:HB2	1.73	0.42
8:CK:422:ARG:HA	8:CK:422:ARG:HD2	1.81	0.42
2:CT:30:LEU:HB2	2:CT:135:TYR:HE2	1.84	0.42
2:CU:8:SER:O	2:CU:12:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:96:ASN:HA	2:CV:99:GLU:HG2	2.01	0.42
2:CV:134:HIS:O	2:CV:136:GLY:N	2.52	0.42
2:CV:142:ILE:HG22	2:CV:146:LEU:HD13	2.00	0.42
2:Ch:132:ARG:HG2	8:QC:282:TYR:HE2	1.84	0.42
33:Ct:300:LEU:HD12	33:Ct:300:LEU:HA	1.85	0.42
29:D0:393:LYS:HB3	29:D1:280:ILE:HG22	2.01	0.42
29:D1:161:TYR:CE1	29:D1:165:ARG:HD3	2.54	0.42
29:D1:385:ILE:HD13	29:D1:385:ILE:HA	1.93	0.42
29:D6:130:LYS:HD3	29:D6:130:LYS:HA	1.68	0.42
29:D6:149:LEU:HA	29:D6:149:LEU:HD12	1.73	0.42
9:DB:14:ASN:HD21	9:DB:67:ASP:HB2	1.82	0.42
9:DB:271:ALA:HB2	9:DB:293:MET:HG2	2.01	0.42
9:DB:331:LEU:HD23	9:DB:331:LEU:HA	1.85	0.42
9:DB:378:PHE:HA	9:DB:381:ILE:HG22	2.01	0.42
8:DE:288:VAL:HA	8:DE:291:ILE:HG12	2.01	0.42
8:DI:230:LEU:O	8:DI:234:ILE:HG23	2.19	0.42
8:DI:231:ILE:O	8:DI:235:VAL:HG12	2.19	0.42
9:DJ:156:ARG:HD2	9:DJ:160:PRO:HA	2.01	0.42
9:DJ:345:ILE:HD11	8:DK:404:PHE:HE2	1.83	0.42
9:DJ:421:GLU:HG2	9:DJ:422:TYR:HD1	1.84	0.42
9:DL:323:MET:HB3	9:DL:323:MET:HE3	1.81	0.42
8:DM:420:GLU:H	8:DM:420:GLU:HG3	1.67	0.42
36:Dc:147:THR:O	36:Dc:147:THR:OG1	2.36	0.42
39:Di:99:LYS:HE3	39:Di:99:LYS:HB3	1.91	0.42
8:EC:326:LYS:NZ	9:ED:212:PHE:HB2	2.34	0.42
8:EE:85:GLN:O	8:FE:283:HIS:NE2	2.43	0.42
8:EE:105:ARG:HH11	8:EE:110:ILE:HD11	1.84	0.42
9:EF:191:GLN:OE1	9:EF:414:ASN:ND2	2.52	0.42
9:EJ:289:LEU:HD11	9:EJ:365:ALA:HB3	2.00	0.42
8:EK:78:VAL:HG13	8:EK:92:LEU:HD13	2.01	0.42
8:EK:188:ILE:HD12	8:EK:188:ILE:HA	1.88	0.42
8:EK:278:ALA:HA	8:EK:369:ALA:HB2	2.01	0.42
9:EL:359:ARG:H	9:EL:359:ARG:HG2	1.54	0.42
8:EM:248:LEU:HB2	8:EM:355:ILE:HG22	2.01	0.42
9:EN:256:ASN:HB3	9:EN:350:LYS:NZ	2.34	0.42
29:EO:381:LEU:HD13	29:EO:437:LEU:HA	2.01	0.42
44:ES:54:ASP:OD1	44:ES:54:ASP:N	2.52	0.42
44:EV:31:ARG:NH2	44:EV:54:ASP:OD2	2.52	0.42
44:EX:325:THR:HA	44:EZ:71:ARG:HH12	1.84	0.42
9:FB:270:PHE:HD2	9:FB:273:LEU:HG	1.83	0.42
8:FC:243:ARG:H	8:FC:243:ARG:HG2	1.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FD:271:ALA:O	9:FD:292:GLN:NE2	2.52	0.42
9:FF:270:PHE:HD2	9:FF:273:LEU:HG	1.84	0.42
9:FF:375:GLN:OE1	9:FF:379:LYS:NZ	2.52	0.42
8:FM:292:THR:OG1	8:FM:319:TYR:OH	2.30	0.42
9:GB:100:ASN:HB2	9:GB:398:TYR:CE1	2.52	0.42
8:GC:188:ILE:HD12	8:GC:425:LEU:HD13	2.01	0.42
8:GK:323:VAL:HG12	8:GK:373:ARG:HG2	2.00	0.42
8:GK:335:ILE:HD13	8:GK:335:ILE:HA	1.89	0.42
9:GL:207:LEU:HB3	9:GL:225:LEU:HD22	2.00	0.42
9:HF:66:VAL:HG23	9:HF:91:VAL:HG23	2.00	0.42
8:HG:298:PRO:HG2	8:HG:308:ARG:HH12	1.83	0.42
9:HH:278:SER:O	9:HH:278:SER:OG	2.35	0.42
9:HJ:142:GLY:N	69:HJ:501:GDP:O1B	2.49	0.42
8:HO:3:GLU:HG2	8:HO:64:ARG:HH11	1.83	0.42
9:IL:36:TYR:O	9:IL:37:HIS:ND1	2.52	0.42
8:JE:70:LEU:HD12	8:JE:99:ALA:HB2	1.99	0.42
9:JH:11:GLN:NE2	69:JH:501:GDP:N7	2.67	0.42
8:JM:288:VAL:HG22	8:JM:323:VAL:HG12	2.01	0.42
9:JN:15:GLN:HB3	9:JN:226:ASN:HD21	1.84	0.42
9:KB:237:THR:HG22	9:KB:250:LEU:HD21	2.01	0.42
9:KH:285:THR:HB	9:KH:287:PRO:HD2	2.01	0.42
9:KH:308:GLY:HA3	9:KH:373:ALA:HB2	2.00	0.42
8:KI:279:GLU:CD	8:KI:279:GLU:H	2.26	0.42
9:KL:5:VAL:HB	9:KL:133:PHE:HD1	1.84	0.42
9:KN:213:ARG:NH1	9:KN:297:LYS:HE3	2.33	0.42
9:LD:287:PRO:HA	9:LD:290:THR:HG22	2.01	0.42
9:LN:19:LYS:HE2	9:LN:19:LYS:HB3	1.80	0.42
9:MB:151:LEU:HD23	9:MB:151:LEU:HA	1.87	0.42
9:MD:202:ILE:HD13	9:MD:229:VAL:HG22	1.99	0.42
9:MD:252:LYS:HG3	8:ME:100:ALA:HA	2.01	0.42
8:ME:259:LEU:HD13	8:ME:316:CYS:HB2	2.01	0.42
8:ME:380:ASN:OD1	8:ME:380:ASN:N	2.50	0.42
9:ML:207:LEU:HB3	9:ML:225:LEU:HD22	2.01	0.42
9:MN:7:LEU:HB2	9:MN:135:LEU:HD12	2.01	0.42
9:MN:43:GLN:H	9:MN:43:GLN:HG3	1.66	0.42
9:NB:204:ASN:ND2	69:NB:501:GDP:C2	2.86	0.42
8:NC:11:GLN:HG2	8:NC:74:VAL:HG21	2.01	0.42
8:NC:107:HIS:CD2	8:NC:152:LEU:HB2	2.54	0.42
9:ND:30:ILE:HD12	9:ND:59:TYR:HB2	2.00	0.42
8:NE:152:LEU:HA	8:NE:155:GLU:HB3	2.01	0.42
8:NE:316:CYS:HB3	8:NE:378:LEU:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NJ:257:MET:HE2	9:NJ:257:MET:HB3	1.95	0.42
8:OC:241:SER:OG	8:OC:250:VAL:O	2.36	0.42
9:OD:256:ASN:ND2	8:OE:101:ASN:HD22	2.16	0.42
9:OH:311:LEU:HD23	9:OH:342:VAL:HG11	2.00	0.42
9:OJ:4:ILE:HD11	9:OJ:134:GLN:HB2	1.99	0.42
8:OK:70:LEU:HD12	8:OK:99:ALA:HB2	2.00	0.42
9:PB:73:MET:HB2	9:PB:92:PHE:HE2	1.84	0.42
9:PJ:119:VAL:HA	9:PJ:122:LYS:HB3	1.99	0.42
9:PJ:203:ASP:N	9:PJ:300:MET:O	2.44	0.42
8:PK:147:SER:OG	8:PK:190:THR:OG1	2.32	0.42
8:QA:31:GLN:HG3	8:QA:35:GLN:O	2.18	0.42
8:QA:304:LYS:HD2	8:QA:304:LYS:HA	1.82	0.42
9:QB:240:LEU:HD21	9:QB:249:ASP:HA	2.01	0.42
8:QE:335:ILE:HD11	8:QE:351:PHE:HZ	1.83	0.42
8:QI:27:GLU:HA	8:QI:361:THR:HG21	2.01	0.42
8:QI:208:ALA:O	8:QI:212:ILE:HG23	2.19	0.42
9:QJ:412:GLU:HA	9:QJ:415:MET:HG2	2.00	0.42
8:QK:207:GLU:HA	8:QK:210:TYR:HB2	2.00	0.42
9:QL:395:LEU:H	9:QL:395:LEU:HD12	1.82	0.42
9:RD:417:ASP:O	9:RD:421:GLU:N	2.34	0.42
8:RE:254:GLU:HA	8:RE:257:THR:HG22	2.01	0.42
9:RF:8:GLN:HG2	9:RF:136:THR:HB	2.02	0.42
9:RH:117:LEU:HA	9:RH:120:VAL:HG12	2.00	0.42
8:SE:255:PHE:HZ	8:SE:318:LEU:HD11	1.84	0.42
8:SI:132:LEU:O	8:SI:164:LYS:NZ	2.51	0.42
8:SI:202:PHE:HE2	8:SI:378:LEU:HD22	1.83	0.42
8:SI:437:VAL:HG13	9:SJ:391:ARG:HH21	1.84	0.42
9:TB:68:LEU:HD12	9:TB:97:ALA:HB2	2.01	0.42
9:TB:249:ASP:OD1	9:TB:249:ASP:N	2.46	0.42
9:TD:21:TRP:CE3	9:TD:24:ILE:HD11	2.53	0.42
9:TD:245:GLN:N	9:TD:245:GLN:OE1	2.52	0.42
8:TE:103:TYR:CD2	8:TE:189:LEU:HD22	2.54	0.42
8:TE:175:PRO:HB3	8:TE:390:ARG:HD2	2.00	0.42
8:TG:186:ASN:O	8:TG:190:THR:HG23	2.19	0.42
9:UB:226:ASN:HA	9:UB:229:VAL:HG12	2.01	0.42
9:UD:337:ASN:OD1	9:UD:340:TYR:HB2	2.19	0.42
9:UF:148:GLY:O	9:UF:152:ILE:HG12	2.19	0.42
9:UF:154:LYS:HA	9:UF:154:LYS:HD2	1.84	0.42
9:UH:282:ARG:NH1	9:UH:288:GLU:OE1	2.51	0.42
9:VB:329:GLN:HA	9:VB:332:ASN:HB2	2.01	0.42
9:VD:309:ARG:NH1	9:VD:341:PHE:O	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VF:380:ARG:O	9:VF:383:GLU:HG3	2.19	0.42
9:VJ:131:GLN:NE2	9:VJ:250:LEU:H	2.17	0.42
8:VK:98:ASP:O	8:VK:105:ARG:NH1	2.51	0.42
9:WB:103:LYS:H	9:WB:103:LYS:HG2	1.56	0.42
8:WC:88:HIS:HD1	8:WC:89:PRO:HD2	1.84	0.42
8:WC:164:LYS:HD2	57:YL:87:HIS:CE1	2.53	0.42
8:WC:200:CYS:HA	8:WC:266:HIS:HB2	2.01	0.42
9:WD:273:LEU:HD23	9:WD:273:LEU:HA	1.93	0.42
8:WE:245:ASP:OD2	8:WE:246:GLY:N	2.51	0.42
9:WJ:364:SER:OG	9:WJ:365:ALA:N	2.49	0.42
8:WK:90:GLU:HG3	8:WK:121:ARG:HH21	1.83	0.42
8:WM:122:ILE:HD13	8:WM:122:ILE:HA	1.89	0.42
56:XH:22:LEU:HD13	56:XH:25:TRP:HB2	2.00	0.42
56:XI:40:ASN:OD1	56:XI:40:ASN:N	2.41	0.42
56:XI:85:LYS:HA	57:YI:252:GLU:OE2	2.19	0.42
57:YH:223:ASP:OD1	57:YH:223:ASP:N	2.52	0.42
60:e:191:ASP:OD1	60:e:194:ASN:HB3	2.18	0.42
62:j:163:SER:HB3	62:j:191:ASN:HD22	1.83	0.42
63:m:144:PRO:HG2	63:m:149:TRP:CE2	2.54	0.42
66:v:313:LEU:HD23	66:v:313:LEU:HA	1.87	0.42
3:x:113:ARG:NH2	3:x:268:ARG:O	2.52	0.42
3:2:137:LYS:HA	3:2:177:TYR:CG	2.54	0.42
7:A8:251:VAL:HG21	9:SF:77:ARG:HH12	1.83	0.42
8:AA:269:LEU:HD21	8:AA:384:ILE:HD13	2.02	0.42
9:AD:334:GLN:HE22	9:AD:348:ASN:N	2.01	0.42
8:AE:121:ARG:HD2	8:AE:121:ARG:HA	1.80	0.42
9:AJ:378:PHE:HD1	9:AJ:415:MET:HE2	1.83	0.42
9:AL:234:SER:O	9:AL:241:ARG:NH2	2.52	0.42
9:AL:304:ASP:OD1	9:AL:306:ARG:HG3	2.19	0.42
13:Ac:32:GLU:OE2	13:Ac:33:LEU:N	2.52	0.42
13:Ad:471:ARG:HD2	13:Ad:487:TYR:CD2	2.54	0.42
14:Ao:73:PRO:HA	14:Ao:74:PRO:HD2	1.93	0.42
7:Aw:71:SER:HB2	8:OC:298:PRO:HG2	2.00	0.42
18:B5:57:LEU:HD23	9:LH:113:VAL:HG13	2.01	0.42
14:B7:56:LEU:HD23	8:DK:80:THR:HG23	2.01	0.42
17:B8:231:ARG:HE	9:LN:80:PRO:HB3	1.84	0.42
8:BA:10:GLY:HA2	8:BA:145:THR:HG23	2.01	0.42
8:BA:219:ILE:HD13	8:BA:219:ILE:HA	1.91	0.42
8:BE:238:ILE:HD13	8:BE:238:ILE:HA	1.85	0.42
9:BF:102:ALA:HB2	9:BF:403:MET:HE2	2.00	0.42
8:BG:352:LYS:HA	9:BH:177:ASP:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BH:247:ASN:HD22	9:BH:247:ASN:C	2.28	0.42
8:BM:102:ASN:HB3	8:BM:105:ARG:HB2	2.01	0.42
19:BP:361:ILE:HG12	19:BP:436:LEU:HD13	2.02	0.42
14:Bd:250:LYS:HD3	14:Bd:250:LYS:HA	1.71	0.42
21:Bj:103:ARG:HD3	21:Bj:103:ARG:HA	1.85	0.42
21:Bj:108:ARG:HG2	21:Bj:109:GLU:OE1	2.19	0.42
21:Bj:125:ARG:HH21	21:Bj:128:ASP:HA	1.84	0.42
27:Br:57:LEU:HD22	8:JC:45:GLY:HA3	2.00	0.42
29:C1:471:LYS:HG2	29:DS:379:MET:HE1	1.99	0.42
28:C7:281:VAL:HG12	28:C9:394:LYS:HB3	2.01	0.42
28:C9:148:GLU:O	28:C9:151:ASN:HB2	2.18	0.42
9:CB:1:MET:HE2	8:CC:72:PRO:HG2	2.01	0.42
9:CD:5:VAL:HG23	9:CD:130:LEU:HD11	1.99	0.42
8:CE:158:SER:HB2	8:CE:166:LYS:HZ1	1.84	0.42
8:CG:292:THR:HG1	8:CG:319:TYR:HH	1.62	0.42
8:CK:414:GLU:OE1	8:CK:414:GLU:N	2.51	0.42
8:CM:71:GLU:HG2	8:CM:73:THR:HG22	2.01	0.42
17:CQ:32:PRO:HG2	8:ME:386:GLU:HB2	2.01	0.42
30:CW:405:LYS:HE3	30:CW:405:LYS:HB3	1.69	0.42
2:CY:145:ILE:H	2:CY:145:ILE:HD12	1.84	0.42
2:Ce:34:ARG:NH2	2:Ce:40:LYS:O	2.52	0.42
2:Ci:30:LEU:HD13	2:Ci:67:LEU:HD11	2.01	0.42
2:Cj:128:CYS:HB2	2:Cj:132:ARG:HH21	1.84	0.42
33:Cq:254:LEU:HD23	33:Cq:254:LEU:HA	1.83	0.42
33:Ct:161:LYS:HA	33:Ct:161:LYS:HD2	1.80	0.42
33:Cv:396:LYS:HD3	28:F4:348:THR:HG21	2.01	0.42
33:Cv:403:LYS:HD3	33:Cv:403:LYS:HA	1.75	0.42
29:D1:145:LEU:HD12	29:D1:145:LEU:HA	1.86	0.42
29:D1:380:LEU:HD23	29:D1:380:LEU:HA	1.91	0.42
29:D2:414:SER:OG	29:D8:144:ASN:OD1	2.24	0.42
29:D3:200:GLN:HB3	29:D3:471:LYS:HZ3	1.84	0.42
29:D4:203:LYS:HG2	29:D4:467:ILE:HD11	2.00	0.42
29:D5:148:ARG:NH2	29:D7:411:CYS:SG	2.92	0.42
29:D5:274:ARG:HG2	29:D5:277:SER:HB3	2.01	0.42
29:D9:118:ARG:NH2	29:D9:119:MET:SD	2.92	0.42
8:DA:16:ILE:HA	8:DA:228:ASN:HD22	1.84	0.42
9:DB:297:LYS:HB2	9:DB:297:LYS:HE3	1.76	0.42
9:DH:233:MET:HE2	9:DH:233:MET:HB3	1.66	0.42
9:DH:236:VAL:O	9:DH:238:THR:HG23	2.19	0.42
8:DK:232:GLY:HA2	8:DK:235:VAL:HG12	2.01	0.42
29:DR:180:LEU:HD21	29:DR:235:LEU:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DT:346:PHE:CD1	29:DT:350:ILE:HD11	2.54	0.42
29:DV:205:ILE:HD12	29:DV:205:ILE:HA	1.84	0.42
39:Dj:109:ASP:OD1	39:Dj:120:GLN:NE2	2.50	0.42
42:E:769:ILE:HD13	42:E:769:ILE:HA	1.89	0.42
43:E4:140:LYS:HE3	43:E4:140:LYS:HB3	1.80	0.42
8:EC:124:LYS:HD2	8:EC:124:LYS:HA	1.80	0.42
9:ED:11:GLN:NE2	9:ED:15:GLN:OE1	2.40	0.42
8:EE:417:GLU:HA	8:EE:420:GLU:HB3	2.01	0.42
9:EJ:122:LYS:HD3	9:EJ:122:LYS:HA	1.89	0.42
8:EK:398:MET:HE1	8:EK:404:PHE:HD2	1.84	0.42
9:EL:211:CYS:HB3	9:EL:217:LEU:HD21	2.01	0.42
29:EO:226:LYS:HE3	29:EO:226:LYS:HB3	1.87	0.42
29:EP:176:ILE:HD13	29:EP:176:ILE:HA	1.85	0.42
29:ER:130:LYS:HA	29:ER:130:LYS:HD3	1.73	0.42
9:FB:174:LYS:HB3	9:FB:174:LYS:HE3	1.84	0.42
9:FD:52:ASN:N	9:FD:60:VAL:O	2.51	0.42
9:FD:297:LYS:HE2	9:FD:297:LYS:HB3	1.68	0.42
8:FE:2:ARG:HB3	8:FE:242:LEU:HD22	2.01	0.42
9:FF:117:LEU:HA	9:FF:120:VAL:HG22	2.01	0.42
9:GB:207:LEU:HG	9:GB:300:MET:HG2	2.00	0.42
9:GF:256:ASN:HD22	9:GF:350:LYS:HD3	1.83	0.42
8:GG:97:GLU:CD	8:GG:105:ARG:HH22	2.27	0.42
8:GI:156:ARG:HA	8:GI:156:ARG:HD2	1.81	0.42
9:GJ:317:PHE:HB2	9:GJ:353:VAL:HG12	2.00	0.42
9:GJ:336:LYS:HB2	9:GJ:336:LYS:HE2	1.70	0.42
8:GK:138:PHE:HE1	8:GK:169:PHE:HD2	1.67	0.42
8:GK:170:ALA:HB3	8:GK:202:PHE:HD1	1.83	0.42
9:GL:267:MET:HB2	9:GL:267:MET:HE3	1.63	0.42
9:GN:156:ARG:HE	9:GN:164:MET:HE1	1.84	0.42
9:HB:101:TRP:NE1	9:HB:145:SER:O	2.49	0.42
8:HC:5:ILE:HD12	8:HC:125:LEU:HD23	2.00	0.42
8:HC:65:ALA:C	8:HC:91:GLN:HE21	2.27	0.42
9:HN:362:LYS:HA	9:HN:362:LYS:HD3	1.83	0.42
9:IB:323:MET:H	9:IB:323:MET:HG2	1.64	0.42
8:IG:26:LEU:HD23	8:IG:26:LEU:HA	1.89	0.42
8:II:113:GLU:HG2	8:II:114:ILE:HG23	2.00	0.42
9:JF:106:TYR:OH	9:JF:407:GLU:OE2	2.34	0.42
9:JJ:320:ARG:HH22	1:V:95:GLU:HG3	1.84	0.42
9:JJ:346:PRO:HG3	8:JK:394:LYS:HG3	2.01	0.42
8:JK:324:VAL:HG11	9:JL:219:THR:HB	2.00	0.42
9:KB:321:MET:HE2	9:KB:321:MET:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KC:90:GLU:OE1	8:KC:121:ARG:NE	2.52	0.42
8:KE:414:GLU:OE1	8:KE:416:GLY:N	2.46	0.42
8:KE:422:ARG:HA	8:KE:422:ARG:HD2	1.80	0.42
8:KI:103:TYR:HD2	8:KI:413:MET:HE1	1.84	0.42
8:KO:5:ILE:HD13	8:KO:64:ARG:HB3	2.01	0.42
8:LG:189:LEU:HD13	8:LG:413:MET:HE1	2.01	0.42
8:LI:259:LEU:HD12	8:LI:259:LEU:HA	1.89	0.42
8:LM:304:LYS:HD2	8:LM:304:LYS:HA	1.87	0.42
9:LN:54:ALA:HB3	9:LN:58:LYS:HB3	2.00	0.42
9:MB:100:ASN:HB3	9:MB:103:LYS:HB2	2.00	0.42
9:MD:3:GLU:HA	9:MD:49:VAL:HA	2.00	0.42
9:MF:385:PHE:HZ	9:MF:408:PHE:HB3	1.84	0.42
8:NA:212:ILE:HA	8:NA:212:ILE:HD13	1.78	0.42
8:NA:291:ILE:HD12	8:NA:375:VAL:HG23	2.01	0.42
9:NB:232:THR:HG21	9:NB:268:PRO:HB2	2.01	0.42
8:NE:328:VAL:O	8:NE:332:ILE:HG12	2.19	0.42
9:NF:170:VAL:HG11	9:NF:377:LEU:HD21	2.01	0.42
8:NG:278:ALA:HA	8:NG:369:ALA:HB2	2.01	0.42
8:NK:272:TYR:HE1	8:NK:374:ALA:HB1	1.84	0.42
8:OC:5:ILE:HD12	8:OC:125:LEU:HD13	2.01	0.42
8:OG:202:PHE:CZ	8:OG:378:LEU:HD13	2.55	0.42
9:OH:49:VAL:HG11	9:OH:241:ARG:HG2	2.01	0.42
9:OH:131:GLN:HE22	9:OH:250:LEU:HB2	1.83	0.42
9:OJ:244:GLY:HA2	9:OJ:355:ASP:HB2	2.02	0.42
8:PA:262:TYR:HD2	8:PA:265:ILE:HD12	1.83	0.42
8:PC:212:ILE:HG23	8:PC:275:VAL:HG21	2.01	0.42
8:PE:21:TRP:CZ3	8:PE:63:PRO:HB3	2.55	0.42
8:PE:50:ASN:OD1	8:PE:50:ASN:N	2.52	0.42
9:PH:334:GLN:HE21	9:PH:349:VAL:HG23	1.85	0.42
8:PI:167:LEU:HD12	8:PI:202:PHE:CZ	2.54	0.42
8:PK:278:ALA:HA	8:PK:369:ALA:HB2	2.00	0.42
8:PM:158:SER:OG	8:PM:166:LYS:NZ	2.31	0.42
9:QB:330:MET:HA	9:QB:330:MET:HE3	2.01	0.42
8:QC:31:GLN:OE1	8:QC:31:GLN:N	2.51	0.42
8:QC:336:LYS:HE3	8:QC:351:PHE:CE1	2.54	0.42
9:QD:379:LYS:HB3	9:QD:379:LYS:HE2	1.94	0.42
8:QG:269:LEU:N	8:QG:379:SER:O	2.48	0.42
8:QI:319:TYR:CE1	8:QI:375:VAL:HG13	2.54	0.42
9:QJ:103:LYS:H	9:QJ:103:LYS:HG2	1.62	0.42
9:QJ:238:THR:O	9:QJ:242:PHE:N	2.50	0.42
8:QK:118:VAL:HG11	8:QK:153:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RC:99:ALA:HA	8:RC:110:ILE:HD11	2.01	0.42
8:RC:201:ALA:O	8:RC:268:PRO:HD2	2.18	0.42
8:RC:395:LEU:HD23	8:RC:422:ARG:HG3	2.01	0.42
9:RD:181:GLU:HG3	9:RD:182:PRO:HD3	2.02	0.42
9:RL:44:LEU:HD23	9:RL:44:LEU:HA	1.82	0.42
9:RL:270:PHE:CD2	9:RL:272:PRO:HD2	2.55	0.42
8:SE:326:LYS:C	8:SE:328:VAL:H	2.27	0.42
9:SF:189:VAL:HA	9:SF:192:LEU:HB3	2.01	0.42
8:SG:133:GLN:HA	8:SG:164:LYS:NZ	2.34	0.42
9:SH:299:MET:HE3	9:SH:299:MET:HB3	1.72	0.42
9:SH:324:LYS:NZ	8:SI:210:TYR:O	2.32	0.42
8:SK:2:ARG:O	8:SK:51:THR:OG1	2.29	0.42
8:SK:277:SER:HB2	8:SK:280:LYS:HE3	2.01	0.42
54:T:268:GLU:O	54:T:272:ARG:HG3	2.19	0.42
8:TC:99:ALA:HA	8:TC:105:ARG:HG2	2.01	0.42
8:TC:245:ASP:OD2	8:TC:245:ASP:N	2.48	0.42
9:TD:60:VAL:HG11	9:TD:86:ARG:HH12	1.82	0.42
9:TD:344:TRP:H	9:TD:344:TRP:CD1	2.37	0.42
8:TG:71:GLU:H	8:TG:71:GLU:HG2	1.68	0.42
8:TG:224:TYR:HD2	67:TG:501:GTP:C6	2.37	0.42
9:TH:163:ILE:HD13	9:TH:163:ILE:HA	1.87	0.42
9:TL:186:THR:HA	9:TL:189:VAL:HG12	2.01	0.42
9:UF:19:LYS:HA	9:UF:22:GLU:HB2	1.99	0.42
9:UH:326:VAL:O	9:UH:330:MET:HG2	2.19	0.42
9:UJ:323:MET:HE2	9:UJ:323:MET:HB2	1.72	0.42
9:UJ:411:ALA:HA	9:UJ:414:ASN:ND2	2.34	0.42
8:UK:96:LYS:HD3	8:UK:96:LYS:HA	1.79	0.42
8:UK:390:ARG:O	8:UK:394:LYS:HG3	2.20	0.42
8:UK:425:LEU:O	8:UK:429:GLU:HG2	2.19	0.42
9:UL:257:MET:HB3	9:UL:266:PHE:CZ	2.54	0.42
8:UM:211:ASP:OD1	8:UM:211:ASP:N	2.50	0.42
8:UM:219:ILE:HG13	8:UM:222:PRO:HD3	2.01	0.42
9:UN:99:ASN:OD1	9:UN:99:ASN:N	2.52	0.42
1:V:186:ARG:NE	1:V:196:LYS:HB3	2.34	0.42
9:VB:373:ALA:HA	9:VB:375:GLN:HE22	1.84	0.42
8:VE:141:PHE:HA	8:VE:147:SER:HB2	1.99	0.42
8:VE:207:GLU:O	8:VE:210:TYR:N	2.51	0.42
9:VF:16:ILE:HD12	9:VF:229:VAL:HG11	2.01	0.42
9:VF:105:HIS:HA	9:VF:150:LEU:HD11	2.01	0.42
8:VG:136:LEU:HB3	8:VG:169:PHE:HE1	1.84	0.42
9:VH:217:LEU:HD23	9:VH:217:LEU:HA	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VJ:67:ASP:OD1	9:VJ:68:LEU:N	2.53	0.42
8:VK:293:ASN:OD1	8:VK:293:ASN:N	2.49	0.42
9:WN:285:THR:OG1	9:WN:286:VAL:N	2.52	0.42
47:X:207:MET:HE2	47:X:207:MET:HB2	1.96	0.42
47:X:217:LYS:HB2	47:X:217:LYS:HE2	1.84	0.42
47:X:355:TYR:HA	47:X:359:PHE:HB2	2.01	0.42
56:XG:174:GLU:O	56:XG:182:LYS:NZ	2.52	0.42
56:XI:35:LYS:HD2	57:YI:205:VAL:HG13	2.01	0.42
56:XK:79:ILE:HG12	56:XK:131:GLN:HE22	1.84	0.42
56:XL:34:ILE:HG23	56:XL:49:ILE:HG22	2.01	0.42
57:YH:65:ARG:HB2	57:YH:159:LEU:HD12	2.01	0.42
59:b:482:GLU:O	59:b:485:GLN:HG3	2.19	0.42
60:e:460:LEU:HD11	60:e:496:LEU:HB3	2.00	0.42
2:0k:92:PRO:HA	2:0k:95:ASN:ND2	2.34	0.42
3:2:69:HIS:HB3	3:2:72:ILE:HG23	2.02	0.42
6:A0:45:ALA:HB3	8:IK:340:THR:HG23	2.02	0.42
6:A0:67:ALA:HB1	9:IJ:336:LYS:HZ3	1.84	0.42
9:AH:3:GLU:HG3	9:AH:127:CYS:SG	2.59	0.42
8:AM:68:VAL:HG22	8:AM:93:ILE:HB	2.00	0.42
11:AT:208:ASP:HB2	24:Bh:35:PHE:CE1	2.55	0.42
11:AT:234:LEU:HD23	11:AT:234:LEU:HA	1.89	0.42
11:AU:398:LYS:HE2	11:AU:398:LYS:HB3	1.93	0.42
12:AW:118:PHE:CD2	12:AW:163:ILE:HG23	2.55	0.42
13:Aa:500:ASN:OD1	13:Aa:500:ASN:N	2.51	0.42
13:Ac:471:ARG:HD2	13:Ac:471:ARG:HA	1.91	0.42
15:Aq:107:ARG:NH1	32:Co:156:GLU:OE1	2.50	0.42
16:At:221:GLY:HA2	8:FK:338:LYS:HD2	2.00	0.42
16:At:277:ARG:HA	9:FH:297:LYS:HZ3	1.84	0.42
7:Av:205:ARG:HA	9:OH:297:LYS:HZ2	1.83	0.42
7:Aw:77:LEU:HD21	8:OC:215:ARG:HA	2.01	0.42
8:BG:142:GLY:HA2	8:BG:183:GLU:OE2	2.19	0.42
8:BI:70:LEU:HA	8:BI:95:GLY:HA3	2.01	0.42
8:BI:186:ASN:OD1	8:BI:408:TYR:OH	2.30	0.42
9:BJ:228:LEU:HG	9:BJ:300:MET:HE1	2.01	0.42
9:BL:141:GLY:O	9:BL:184:ASN:ND2	2.47	0.42
14:BY:226:VAL:HG11	14:BY:241:VAL:HG22	2.00	0.42
23:Bg:58:THR:HG22	23:Bg:60:ASN:H	1.84	0.42
25:Bo:206:UNK:HA	9:PJ:356:ILE:HD12	2.01	0.42
27:Br:133:MET:HE2	27:Br:133:MET:HB3	1.84	0.42
28:C2:377:MET:HE1	43:E1:76:TRP:HB3	2.01	0.42
28:C3:209:ASP:N	28:C3:209:ASP:OD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:C7:413:ARG:HE	28:C8:293:THR:HG21	1.84	0.42
9:CB:222:TYR:HE1	69:CB:501:GDP:C6	2.36	0.42
9:CH:103:LYS:O	9:CH:109:GLY:N	2.52	0.42
9:CH:157:GLU:N	9:CH:157:GLU:OE1	2.52	0.42
9:CH:325:GLU:HG2	9:CH:329:GLN:HE22	1.85	0.42
8:CI:187:SER:O	8:CI:191:THR:HG23	2.19	0.42
8:CI:265:ILE:HG21	8:CI:313:MET:HE1	2.00	0.42
8:CK:1:MET:HB2	8:CK:1:MET:HE2	1.78	0.42
8:CM:49:PHE:HD2	8:CM:53:PHE:HB2	1.84	0.42
8:CM:67:PHE:HB2	8:CM:92:LEU:HD22	2.01	0.42
14:CN:237:TYR:HB2	8:FC:218:ASP:OD1	2.19	0.42
2:CZ:25:THR:OG1	9:OD:41:ASP:OD2	2.26	0.42
2:Cc:132:ARG:HH21	2:Cc:133:ASN:HD21	1.65	0.42
2:Cf:135:TYR:HB3	2:Cf:138:VAL:HG22	2.01	0.42
2:Cg:121:ASP:OD2	2:Cg:125:HIS:NE2	2.53	0.42
33:Cq:72:SER:O	33:Cq:76:GLU:HG2	2.19	0.42
33:Cr:90:ASP:OD2	43:E2:110:THR:OG1	2.38	0.42
33:Cu:234:LYS:HE2	33:Cu:234:LYS:HB2	1.93	0.42
34:D:71:ASP:OD1	34:D:72:GLN:N	2.51	0.42
34:D:75:LEU:HD22	8:GK:364:PRO:HG3	2.01	0.42
29:D4:128:GLN:NE2	29:D8:161:TYR:HB2	2.33	0.42
29:D8:360:LEU:HD23	29:D8:360:LEU:HA	1.91	0.42
29:D9:97:ASP:HA	29:D9:100:GLN:HG2	2.02	0.42
8:DA:377:MET:HE2	8:DA:377:MET:HA	2.00	0.42
9:DD:331:LEU:HD23	9:DD:331:LEU:HA	1.92	0.42
8:DE:25:CYS:SG	8:DE:86:LEU:HD21	2.60	0.42
8:DE:67:PHE:HB2	8:DE:92:LEU:HD22	2.02	0.42
8:DE:241:SER:O	8:DE:356:ASN:ND2	2.52	0.42
9:DF:240:LEU:HD23	9:DF:240:LEU:H	1.85	0.42
8:DG:137:ILE:HD12	8:DG:154:MET:HE2	2.02	0.42
8:DM:192:HIS:ND1	8:DM:424:ASP:OD2	2.47	0.42
29:DS:217:ASN:HB3	29:DS:342:THR:HG23	2.01	0.42
29:DU:247:ARG:HA	29:DU:250:GLN:HG2	2.00	0.42
29:DX:159:LEU:HD23	29:DX:159:LEU:HA	1.91	0.42
35:Da:112:LYS:NZ	35:Da:176:CYS:HB3	2.34	0.42
39:Di:89:CYS:SG	39:Di:90:HIS:N	2.92	0.42
43:E1:149:PHE:H	28:F3:116:ASN:ND2	2.17	0.42
9:EB:101:TRP:O	9:EB:105:HIS:HB2	2.19	0.42
9:EB:267:MET:HE2	9:EB:267:MET:HB3	1.84	0.42
9:EF:203:ASP:HB2	9:EF:302:ALA:H	1.84	0.42
9:EF:309:ARG:NH2	9:EF:339:SER:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EH:67:ASP:CG	9:EH:69:GLU:H	2.27	0.42
8:EI:69:ASP:OD1	8:EI:70:LEU:N	2.51	0.42
9:EJ:318:ARG:HD3	9:EJ:358:PRO:HD3	2.02	0.42
8:EK:77:GLU:H	8:EK:77:GLU:CD	2.27	0.42
8:EM:76:ASP:O	8:EM:80:THR:HG22	2.18	0.42
8:EM:121:ARG:HD2	8:EM:121:ARG:HA	1.86	0.42
29:EP:379:MET:O	29:EP:382:GLU:HG3	2.19	0.42
42:F:370:ARG:CZ	8:IG:286:LEU:HD12	2.49	0.42
42:F:532:LYS:O	42:F:536:GLN:HB3	2.19	0.42
28:F3:202:ARG:NE	28:F3:216:GLU:OE2	2.51	0.42
8:FE:21:TRP:CZ3	8:FE:63:PRO:HB3	2.53	0.42
9:FF:189:VAL:O	9:FF:193:VAL:HG13	2.19	0.42
8:FG:409:VAL:HG11	8:FG:415:GLU:OE2	2.18	0.42
9:FN:275:SER:OG	9:FN:276:ARG:N	2.52	0.42
9:GB:72:THR:O	9:GB:75:SER:OG	2.25	0.42
9:GB:137:HIS:ND1	9:GB:167:PHE:O	2.52	0.42
9:GB:343:GLU:H	9:GB:343:GLU:HG3	1.66	0.42
8:GC:310:GLY:HA3	8:GC:383:ALA:HB2	2.01	0.42
9:GD:252:LYS:HA	9:GD:255:VAL:HG12	2.01	0.42
8:GE:157:LEU:HD23	8:GE:157:LEU:HA	1.91	0.42
9:GF:28:HIS:HA	9:GF:43:GLN:HB2	2.01	0.42
9:HH:321:MET:HE3	9:HH:363:MET:HB3	2.00	0.42
8:HK:7:ILE:HG22	8:HK:9:VAL:HG23	2.02	0.42
9:HN:331:LEU:HD21	8:HO:177:VAL:HA	2.00	0.42
8:HO:63:PRO:O	8:HO:91:GLN:NE2	2.46	0.42
8:IC:398:MET:HG3	8:IC:403:ALA:HB3	2.00	0.42
9:IH:182:PRO:O	9:IH:186:THR:HG23	2.20	0.42
8:IO:336:LYS:HE3	8:IO:336:LYS:HB3	1.79	0.42
8:JI:156:ARG:HA	8:JI:156:ARG:HD2	1.81	0.42
9:JL:392:LYS:HE2	9:JL:392:LYS:HB3	1.76	0.42
9:KB:404:ASP:OD1	9:KB:404:ASP:N	2.50	0.42
9:KF:324:LYS:HZ3	8:KG:221:ARG:HA	1.83	0.42
8:KM:154:MET:HE1	8:KM:168:GLU:OE1	2.19	0.42
8:KO:395:LEU:HD22	8:KO:422:ARG:HD3	2.01	0.42
9:LB:388:MET:HE3	9:LB:388:MET:HB2	1.81	0.42
8:LC:79:ARG:HH22	8:LC:94:THR:HG22	1.84	0.42
9:LH:42:LEU:HA	9:LH:45:GLU:HG2	2.02	0.42
8:LI:36:MET:HE1	8:LI:49:PHE:CD2	2.54	0.42
8:LK:426:ALA:HB1	54:S:245:VAL:HG21	2.00	0.42
9:MF:68:LEU:HD23	9:MF:68:LEU:HA	1.86	0.42
9:MF:139:LEU:HD12	9:MF:170:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MF:248:ALA:HA	9:MF:252:LYS:HD2	2.00	0.42
9:MH:60:VAL:HG21	9:MH:86:ARG:HH21	1.84	0.42
8:MI:385:ALA:HA	8:MI:388:TRP:CD1	2.54	0.42
9:MJ:163:ILE:HG13	9:MJ:251:ARG:HG2	2.01	0.42
8:MK:130:THR:OG1	8:MK:131:GLY:N	2.52	0.42
9:NB:103:LYS:HA	9:NB:107:THR:HG22	2.02	0.42
9:NB:167:PHE:CZ	9:NB:233:MET:HB2	2.54	0.42
9:ND:304:ASP:HB3	9:ND:307:HIS:NE2	2.34	0.42
9:NF:271:ALA:HB3	9:NF:365:ALA:HB3	2.00	0.42
8:NG:19:ALA:HB1	8:NG:229:ARG:HD3	2.01	0.42
9:NJ:152:ILE:HA	9:NJ:155:ILE:HG22	2.01	0.42
9:NL:337:ASN:HB2	9:NL:341:PHE:HE2	1.84	0.42
8:OC:119:LEU:HD23	8:OC:119:LEU:HA	1.87	0.42
9:OF:167:PHE:CD1	9:OF:233:MET:HE3	2.54	0.42
8:OK:288:VAL:HA	8:OK:291:ILE:HG22	2.02	0.42
9:OL:19:LYS:HE2	9:OL:19:LYS:HB2	1.92	0.42
9:OL:250:LEU:HD23	9:OL:253:LEU:HD12	2.00	0.42
9:PD:19:LYS:HA	9:PD:19:LYS:HD3	1.89	0.42
9:PD:54:ALA:HB3	9:PD:58:LYS:HE3	1.99	0.42
8:PE:124:LYS:HE2	8:PE:124:LYS:HB3	1.91	0.42
8:PG:175:PRO:HB3	8:PG:390:ARG:HD2	2.01	0.42
8:PI:15:GLN:HB3	8:PI:228:ASN:HD21	1.84	0.42
8:PK:396:ASP:OD1	8:PK:422:ARG:NH1	2.47	0.42
8:QA:5:ILE:HB	8:QA:135:PHE:HD1	1.85	0.42
8:QC:4:CYS:HB2	8:QC:52:PHE:HE1	1.83	0.42
9:QD:294:PHE:CE2	9:QD:333:VAL:HG11	2.55	0.42
9:QF:405:GLU:HA	9:QF:408:PHE:HD2	1.85	0.42
9:QJ:248:ALA:HA	9:QJ:252:LYS:HD3	2.00	0.42
8:QK:329:ASN:OD1	8:QK:329:ASN:N	2.52	0.42
54:R:123:MET:SD	54:R:142:ARG:HG2	2.58	0.42
8:RA:33:ASP:C	8:RA:60:LYS:HZ2	2.27	0.42
8:RA:223:THR:OG1	8:RA:224:TYR:N	2.52	0.42
9:RB:46:ARG:NH2	8:RC:76:ASP:OD2	2.51	0.42
9:RB:374:ILE:H	9:RB:374:ILE:HG22	1.61	0.42
9:RD:9:ALA:HA	9:RD:66:VAL:HG22	2.01	0.42
8:RE:12:ALA:O	8:RE:16:ILE:HG22	2.19	0.42
8:RE:335:ILE:HD12	8:RE:341:ILE:HG13	2.00	0.42
9:RF:321:MET:HE3	9:RF:321:MET:HB3	1.70	0.42
8:RI:253:THR:O	8:RI:257:THR:HG23	2.20	0.42
9:RJ:21:TRP:O	9:RJ:25:SER:OG	2.26	0.42
9:RJ:27:GLU:OE2	9:RJ:241:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SB:174:LYS:O	9:SB:174:LYS:NZ	2.41	0.42
9:SD:60:VAL:HA	9:SD:61:PRO:HD3	1.91	0.42
9:SF:172:SER:OG	9:SF:175:VAL:O	2.36	0.42
9:SF:225:LEU:O	9:SF:229:VAL:HG12	2.19	0.42
9:SF:313:VAL:O	9:SF:350:LYS:N	2.52	0.42
9:SF:323:MET:HA	9:SF:326:VAL:HG23	2.00	0.42
9:SH:15:GLN:NE2	9:SH:15:GLN:O	2.52	0.42
8:SK:76:ASP:HA	8:SK:79:ARG:HB2	2.01	0.42
9:TB:289:LEU:HD21	9:TB:363:MET:HG2	2.00	0.42
8:TC:167:LEU:HB3	8:TC:169:PHE:CE1	2.54	0.42
8:TE:88:HIS:N	8:TE:91:GLN:OE1	2.43	0.42
8:TG:89:PRO:HG2	8:UG:279:GLU:OE2	2.19	0.42
9:TH:34:GLY:HA3	9:TH:58:LYS:HG3	2.01	0.42
8:TI:111:GLY:HA2	8:TI:114:ILE:HG22	2.01	0.42
8:TI:265:ILE:HD12	8:TI:432:TYR:CZ	2.54	0.42
8:UC:21:TRP:CZ3	8:UC:63:PRO:HB3	2.54	0.42
8:UE:322:ASP:OD1	8:UE:322:ASP:N	2.53	0.42
9:UL:337:ASN:OD1	9:UL:337:ASN:N	2.53	0.42
9:UN:368:ILE:HD12	9:UN:368:ILE:HA	1.79	0.42
8:VE:119:LEU:HD11	8:VE:156:ARG:HB3	2.01	0.42
8:VI:346:TRP:HZ3	9:VJ:394:PHE:HE1	1.67	0.42
9:VJ:260:PHE:HD2	9:VJ:263:LEU:HD23	1.85	0.42
9:VJ:326:VAL:O	9:VJ:330:MET:HG2	2.19	0.42
8:VK:200:CYS:HA	8:VK:266:HIS:HB2	2.01	0.42
8:VK:370:LYS:NZ	8:VK:372:GLN:OE1	2.52	0.42
9:VL:253:LEU:HD12	9:VL:253:LEU:HA	1.88	0.42
9:WD:136:THR:HG22	9:WD:167:PHE:HB2	2.01	0.42
9:WJ:101:TRP:N	9:WJ:184:ASN:OD1	2.52	0.42
8:WK:227:LEU:HD23	8:WK:227:LEU:HA	1.90	0.42
8:WM:54:SER:OG	8:WM:55:GLU:N	2.51	0.42
8:WM:167:LEU:HD11	8:WM:255:PHE:HE1	1.84	0.42
9:WN:125:GLU:OE2	9:WN:159:TYR:OH	2.36	0.42
56:XI:115:LYS:HB2	56:XI:118:ILE:HG22	2.00	0.42
56:XL:14:LEU:HD12	56:XL:25:TRP:CE2	2.55	0.42
57:YI:207:SER:O	57:YI:207:SER:OG	2.32	0.42
60:f:33:LEU:HD21	60:f:309:PHE:HB3	2.02	0.42
60:g:122:PHE:CD1	60:g:129:LEU:HD13	2.54	0.42
60:g:276:LEU:HD21	60:g:308:PHE:HE2	1.83	0.42
60:g:386:MET:HE3	60:g:432:CYS:HA	2.00	0.42
66:w:351:LEU:HD23	66:w:351:LEU:HA	1.84	0.42
2:0A:144:ILE:HG13	2:0A:145:ILE:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0C:126:LEU:O	8:QK:85:GLN:NE2	2.53	0.42
2:0E:64:ARG:O	2:0E:68:LEU:HD23	2.20	0.42
2:0W:31:GLU:O	2:0W:35:GLU:HG2	2.19	0.42
3:2:97:LEU:HD11	3:2:142:LEU:HD22	2.01	0.42
3:2:137:LYS:HB2	3:2:137:LYS:HE3	1.79	0.42
7:A1:6:TRP:NE1	7:A1:10:TRP:O	2.52	0.42
7:A1:103:PRO:HD2	8:PG:338:LYS:CD	2.49	0.42
7:A8:126:ALA:HB3	9:TL:296:ALA:HB3	2.00	0.42
9:AB:174:LYS:HD2	9:AB:205:GLU:OE1	2.19	0.42
9:AB:181:GLU:HG3	9:AB:182:PRO:HD3	2.01	0.42
9:AB:413:SER:HB3	57:YL:154:LYS:HE2	2.01	0.42
9:AH:21:TRP:CZ3	9:AH:24:ILE:HD11	2.54	0.42
8:AK:239:THR:OG1	8:AK:243:ARG:NH2	2.51	0.42
9:AL:174:LYS:NZ	9:AL:205:GLU:OE2	2.52	0.42
11:AU:451:LEU:HB3	8:GI:282:TYR:HE1	1.83	0.42
12:AV:126:MET:HE1	12:AV:222:PHE:HE1	1.84	0.42
12:AW:99:LYS:HB3	12:AW:152:PHE:HZ	1.83	0.42
12:AW:363:ASP:OD1	12:AW:363:ASP:N	2.52	0.42
13:Aa:98:THR:HG23	20:BT:267:PHE:CE1	2.55	0.42
13:Ab:343:ASP:OD1	13:Ab:343:ASP:N	2.50	0.42
13:Ab:576:THR:HG21	29:DU:376:ASN:O	2.19	0.42
13:Ab:626:ALA:HB1	47:I:429:PRO:HB2	2.01	0.42
13:Ab:635:LYS:HA	13:Ab:635:LYS:HD3	1.81	0.42
13:Ac:644:ILE:HD11	13:Ac:680:PHE:CE2	2.54	0.42
7:Av:125:SER:HB3	9:NL:121:ARG:HH12	1.84	0.42
7:Ay:152:THR:OG1	8:FE:96:LYS:NZ	2.52	0.42
5:B:169:LEU:HA	5:B:169:LEU:HD12	1.73	0.42
17:B1:17:ASP:O	17:B1:20:ARG:NH2	2.53	0.42
17:B9:47:LEU:HD12	8:JI:76:ASP:OD2	2.19	0.42
8:BA:348:PRO:HG2	9:BB:384:GLN:HG3	2.00	0.42
8:BC:97:GLU:OE1	8:BC:110:ILE:HD11	2.20	0.42
9:BD:69:GLU:HG3	9:BD:96:GLY:HA2	2.01	0.42
8:BE:212:ILE:HD13	8:BE:212:ILE:HA	1.92	0.42
9:BH:86:ARG:HB3	9:BH:89:ASN:OD1	2.19	0.42
8:BI:9:VAL:HG23	8:BI:68:VAL:HG13	2.02	0.42
8:BI:85:GLN:H	8:BI:85:GLN:HG2	1.68	0.42
9:BL:141:GLY:H	9:BL:145:SER:HB2	1.84	0.42
19:BP:143:ALA:HB2	19:BP:256:LEU:HD11	2.01	0.42
19:BR:172:LEU:HD23	19:BR:172:LEU:HA	1.86	0.42
20:BS:363:THR:C	20:BS:364:ARG:HE	2.28	0.42
20:BS:367:LEU:HD13	20:BS:367:LEU:HA	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BV:128:ASP:OD2	9:LJ:276:ARG:NH1	2.53	0.42
21:BV:284:ILE:HG23	8:LE:370:LYS:HG2	2.00	0.42
14:Ba:101:LEU:HD23	14:Ba:101:LEU:HA	1.81	0.42
14:Bd:226:VAL:HB	14:Bd:229:PHE:HB2	2.01	0.42
14:Bd:300:THR:HA	8:CM:219:ILE:HG12	2.02	0.42
27:Bs:224:TYR:CE1	45:G:560:LYS:HD2	2.55	0.42
5:C:87:GLU:OE2	9:VJ:40:SER:HB2	2.19	0.42
28:C2:141:ASP:OD1	33:Cw:281:TRP:NE1	2.51	0.42
28:C7:252:HIS:NE2	28:F2:203:GLU:OE1	2.47	0.42
28:C7:379:ILE:O	28:C7:383:LYS:HG2	2.18	0.42
28:C9:274:LEU:HD12	28:C9:274:LEU:HA	1.88	0.42
9:CJ:271:ALA:HB1	9:CJ:289:LEU:HD22	2.00	0.42
8:CM:268:PRO:HA	8:CM:380:ASN:HA	2.02	0.42
2:CU:103:THR:O	2:CU:109:ASN:ND2	2.52	0.42
2:CX:145:ILE:HG22	2:CX:149:MET:SD	2.59	0.42
2:Cb:145:ILE:O	2:Cb:149:MET:HG3	2.20	0.42
2:Ce:63:ASP:OD1	2:Ce:63:ASP:N	2.52	0.42
2:Ck:87:LEU:HD12	2:Ck:87:LEU:HA	1.91	0.42
33:Cq:295:GLU:CD	33:Cq:298:ARG:HH12	2.27	0.42
33:Cv:16:ASP:HA	33:Cv:19:THR:HG22	2.00	0.42
29:Cz:265:PHE:CD2	29:Cz:269:LYS:HD3	2.53	0.42
34:D:89:GLU:HA	34:D:90:PRO:HD3	1.84	0.42
29:D1:340:THR:O	29:D1:344:LEU:HD23	2.19	0.42
8:DA:274:PRO:HB3	8:DA:291:ILE:HG12	2.00	0.42
9:DB:52:ASN:OD1	9:DB:62:ARG:NH1	2.52	0.42
9:DD:139:LEU:HB2	9:DD:169:VAL:O	2.20	0.42
9:DD:290:THR:HG21	9:DD:329:GLN:HB3	2.01	0.42
8:DE:341:ILE:HD12	8:DE:341:ILE:HA	1.82	0.42
9:DF:103:LYS:H	9:DF:103:LYS:HG2	1.54	0.42
8:DM:102:ASN:OD1	8:DM:185:TYR:OH	2.26	0.42
29:DS:257:LEU:HD23	29:DS:257:LEU:HA	1.85	0.42
29:DW:143:ARG:HD3	29:DW:158:GLU:OE2	2.19	0.42
38:Dg:126:ILE:HD12	38:Dg:136:LEU:HD13	2.00	0.42
42:E:770:ARG:NH2	8:HC:55:GLU:OE1	2.46	0.42
29:EA:130:LYS:HD2	29:EA:130:LYS:HA	1.89	0.42
9:ED:292:GLN:NE2	9:ED:298:ASN:OD1	2.52	0.42
8:EE:298:PRO:HG3	8:EE:308:ARG:HD2	2.02	0.42
29:EO:407:ASN:OD1	29:EO:407:ASN:N	2.50	0.42
29:EQ:414:SER:O	29:EQ:418:LYS:HG2	2.19	0.42
44:EU:304:PHE:CG	44:EU:431:MET:HE3	2.53	0.42
44:EX:247:PHE:HE2	28:F3:164:LEU:HD13	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:F:432:THR:HA	8:HI:57:GLY:HA3	2.01	0.42
9:FB:245:GLN:HE21	9:FB:353:VAL:HG22	1.84	0.42
9:FB:308:GLY:HA2	9:FB:426:GLN:NE2	2.35	0.42
9:FF:273:LEU:O	9:FF:292:GLN:NE2	2.45	0.42
9:FH:289:LEU:HD11	9:FH:363:MET:HG2	2.02	0.42
9:FH:324:LYS:NZ	8:FI:220:GLU:O	2.35	0.42
8:FK:393:HIS:O	8:FK:397:LEU:HD22	2.19	0.42
45:G:530:LYS:HE3	45:G:530:LYS:HB3	1.86	0.42
9:GF:393:ALA:O	9:GF:395:LEU:N	2.53	0.42
8:GK:138:PHE:HE1	8:GK:169:PHE:CD2	2.37	0.42
9:GL:258:VAL:HG21	9:GL:264:HIS:HB3	2.00	0.42
46:H:587:PHE:CE2	46:o:267:ARG:HG3	2.54	0.42
9:HD:297:LYS:H	9:HD:297:LYS:HG2	1.67	0.42
8:HE:79:ARG:NH2	8:HE:92:LEU:O	2.52	0.42
9:HF:74:ASP:HB3	64:ke:31:PRO:HD3	2.01	0.42
8:HG:287:SER:N	8:HG:290:GLU:OE1	2.53	0.42
8:HI:142:GLY:HA2	8:HI:183:GLU:OE2	2.19	0.42
8:HK:140:SER:OG	67:HK:501:GTP:O1A	2.35	0.42
9:HL:398:TYR:HB3	9:HL:403:MET:HG3	2.01	0.42
8:IE:122:ILE:HD13	8:IE:122:ILE:HA	1.92	0.42
8:IG:189:LEU:HD11	8:IG:418:PHE:HE1	1.84	0.42
9:IJ:20:PHE:HA	9:IJ:230:SER:HB3	2.01	0.42
9:IJ:167:PHE:CZ	9:IJ:233:MET:HG3	2.54	0.42
8:IM:188:ILE:HG12	8:IM:395:LEU:HD13	2.02	0.42
8:IO:32:PRO:HA	8:IO:86:LEU:HD13	2.02	0.42
9:JD:299:MET:HE1	9:JD:367:PHE:CD2	2.54	0.42
8:JI:218:ASP:OD2	1:V:30:LYS:NZ	2.47	0.42
9:JJ:26:ASP:OD2	1:V:79:ARG:NH1	2.51	0.42
8:KC:140:SER:OG	67:KC:501:GTP:O2A	2.36	0.42
8:KI:230:LEU:HD12	8:KI:230:LEU:HA	1.91	0.42
8:KK:188:ILE:HD12	8:KK:425:LEU:HD22	2.00	0.42
50:L2:52:ILE:HG22	9:VN:37:HIS:NE2	2.34	0.42
9:LB:117:LEU:HD23	9:LB:117:LEU:HA	1.89	0.42
8:LC:254:GLU:OE1	8:LC:258:ASN:ND2	2.52	0.42
8:LK:413:MET:HG2	8:LK:414:GLU:O	2.19	0.42
9:LL:327:ASP:HB3	8:LM:177:VAL:HG21	2.01	0.42
8:MI:196:GLU:HG2	8:MI:197:HIS:CD2	2.55	0.42
8:MI:231:ILE:O	8:MI:235:VAL:HG12	2.19	0.42
9:MJ:178:THR:HB	9:MJ:181:GLU:HB3	2.02	0.42
8:MK:311:LYS:H	8:MK:382:THR:HG1	1.64	0.42
9:ML:319:GLY:N	9:ML:354:CYS:O	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NC:98:ASP:OD1	8:NC:105:ARG:HD2	2.20	0.42
9:ND:412:GLU:OE2	9:ND:416:ASN:ND2	2.51	0.42
9:NH:7:LEU:HD13	9:NH:64:VAL:HB	2.01	0.42
9:OH:148:GLY:O	9:OH:152:ILE:HG23	2.19	0.42
9:OH:186:THR:HG23	9:OH:381:ILE:CG2	2.50	0.42
9:OJ:289:LEU:HD12	9:OJ:289:LEU:HA	1.92	0.42
8:OK:319:TYR:HB2	8:OK:355:ILE:HD13	2.01	0.42
9:PB:410:GLU:HA	9:PB:413:SER:HB2	2.00	0.42
9:PD:257:MET:O	9:PD:312:THR:OG1	2.32	0.42
9:PF:207:LEU:HD21	9:PF:300:MET:HG2	2.02	0.42
9:PH:11:GLN:HE22	69:PH:501:GDP:H8	1.66	0.42
8:PI:223:THR:HG23	8:PI:225:THR:H	1.83	0.42
9:PJ:318:ARG:HE	9:PJ:358:PRO:HD3	1.85	0.42
8:PM:276:ILE:HD13	8:PM:276:ILE:HA	1.89	0.42
9:QD:131:GLN:NE2	9:QD:249:ASP:HB3	2.34	0.42
9:QD:139:LEU:HA	9:QD:145:SER:HB3	2.00	0.42
8:QG:21:TRP:CZ3	8:QG:63:PRO:HB3	2.54	0.42
8:QI:175:PRO:O	8:QI:394:LYS:NZ	2.40	0.42
9:QL:200:TYR:CE2	9:QL:368:ILE:HG12	2.55	0.42
8:QM:210:TYR:CE1	8:QM:227:LEU:HD21	2.53	0.42
8:QM:277:SER:H	8:QM:280:LYS:HB2	1.85	0.42
8:RC:335:ILE:HD11	8:RC:351:PHE:CZ	2.54	0.42
9:RD:323:MET:HE3	9:RD:323:MET:HB3	1.91	0.42
9:RH:313:VAL:HB	9:RH:349:VAL:HG13	2.00	0.42
9:RH:317:PHE:HD2	9:RH:352:ALA:O	2.03	0.42
9:RH:407:GLU:HA	9:RH:410:GLU:HG2	2.00	0.42
8:RI:7:ILE:HG13	8:RI:137:ILE:HG23	2.02	0.42
8:RI:428:LEU:HD13	8:RI:428:LEU:HA	1.89	0.42
9:RJ:27:GLU:HA	9:RJ:359:ARG:CZ	2.49	0.42
9:RJ:103:LYS:HE2	9:RJ:103:LYS:HB2	1.83	0.42
9:RJ:150:LEU:HD23	9:RJ:154:LYS:HD2	2.02	0.42
9:RL:25:SER:HB3	9:RL:30:ILE:HB	2.00	0.42
8:SA:88:HIS:CE1	8:SA:90:GLU:HB2	2.54	0.42
8:SC:9:VAL:HG11	8:SC:150:ALA:HB2	2.02	0.42
9:SH:267:MET:HA	9:SH:268:PRO:HD3	1.82	0.42
8:SI:325:PRO:O	8:SI:328:VAL:HG22	2.19	0.42
9:SJ:284:LEU:HB3	9:SJ:363:MET:HG2	2.01	0.42
8:SK:286:LEU:O	8:SK:373:ARG:NH1	2.53	0.42
54:T:118:ARG:HG2	54:T:148:ARG:NE	2.34	0.42
9:TD:267:MET:HE2	9:TD:267:MET:HB3	1.78	0.42
8:TI:259:LEU:HD11	8:TI:378:LEU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TJ:380:ARG:HA	9:TJ:383:GLU:HB3	2.00	0.42
9:TL:187:LEU:HD11	9:TL:408:PHE:CZ	2.54	0.42
54:U:184:LEU:HA	54:U:184:LEU:HD23	1.82	0.42
9:UB:271:ALA:O	9:UB:273:LEU:N	2.50	0.42
8:UE:152:LEU:HD12	8:UE:152:LEU:HA	1.92	0.42
9:UF:8:GLN:HE21	9:UF:17:GLY:HA3	1.84	0.42
9:UJ:55:THR:HG23	9:VJ:283:ALA:HA	2.01	0.42
8:UM:21:TRP:HA	8:UM:24:TYR:HB2	2.00	0.42
9:VB:230:SER:HA	9:VB:233:MET:HB2	2.00	0.42
9:VL:208:TYR:CE1	9:VL:225:LEU:HD11	2.55	0.42
9:VN:139:LEU:HD12	9:VN:139:LEU:H	1.84	0.42
9:WD:156:ARG:NH1	9:WD:162:ARG:O	2.49	0.42
8:WE:161:TYR:CZ	8:WE:164:LYS:HE3	2.55	0.42
8:WE:230:LEU:HB3	8:WE:302:MET:HE1	2.01	0.42
9:WF:189:VAL:HA	9:WF:192:LEU:HB2	2.01	0.42
8:WG:12:ALA:HA	67:WG:501:GTP:N7	2.35	0.42
8:WG:274:PRO:HG3	8:WG:291:ILE:HD12	2.00	0.42
9:WH:24:ILE:HD13	9:WH:24:ILE:HA	1.95	0.42
8:WI:326:LYS:NZ	9:WJ:208:TYR:HB3	2.34	0.42
9:WJ:284:LEU:HD23	9:WJ:284:LEU:HA	1.84	0.42
8:WK:240:ALA:HB1	8:WK:356:ASN:HD22	1.84	0.42
8:WM:245:ASP:OD2	8:WM:245:ASP:N	2.51	0.42
9:WN:126:SER:O	9:WN:126:SER:OG	2.33	0.42
56:XK:3:LYS:HB2	56:XK:3:LYS:HE2	1.75	0.42
47:Y:514:LYS:O	47:Y:514:LYS:NZ	2.38	0.42
57:YG:161:ASN:HB3	57:YG:164:VAL:HG12	2.01	0.42
57:YJ:61:ALA:HB2	57:YJ:160:ARG:HH21	1.84	0.42
57:YL:78:ARG:HD2	57:YL:80:ASP:OD2	2.20	0.42
59:b:516:LYS:HZ1	59:b:540:ALA:HB1	1.85	0.42
60:e:618:LYS:HB2	60:e:618:LYS:HE2	1.75	0.42
60:f:75:ILE:HG13	60:f:82:ILE:HG12	2.01	0.42
63:m:28:LEU:HD12	63:m:28:LEU:HA	1.82	0.42
63:m:149:TRP:O	63:m:153:ILE:HG12	2.20	0.42
3:x:55:LYS:HG3	3:x:56:PHE:CD1	2.54	0.42
2:0C:41:ILE:HD11	8:RK:364:PRO:HB3	2.01	0.42
2:0c:22:GLN:HB2	2:0c:25:THR:HG22	2.01	0.42
2:0i:66:ILE:HA	2:0i:66:ILE:HD12	1.92	0.42
2:0k:34:ARG:NH1	2:0k:135:TYR:HB3	2.31	0.42
8:AA:87:PHE:HB3	8:AA:91:GLN:HE21	1.84	0.42
8:AE:306:ASP:HA	8:AE:307:PRO:HD3	1.93	0.42
9:AF:255:VAL:HG22	8:AG:407:TRP:CE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:360:GLY:HA2	20:BT:128:VAL:HA	2.00	0.42
8:AK:5:ILE:HD12	8:AK:135:PHE:HE1	1.84	0.42
8:AM:36:MET:HE3	8:AM:61:HIS:CE1	2.55	0.42
13:Aa:32:GLU:OE2	13:Aa:32:GLU:N	2.53	0.42
13:Aa:167:ILE:HD13	13:Aa:167:ILE:HA	1.91	0.42
13:Ac:166:LYS:HA	32:Cn:370:LEU:HD23	2.02	0.42
13:Ac:173:PRO:HA	13:Ac:174:PRO:HD3	1.86	0.42
13:Ad:181:PRO:O	13:Ad:185:THR:HG23	2.19	0.42
13:Ad:478:GLU:HG3	13:Ad:480:PHE:H	1.84	0.42
7:Av:121:SER:O	9:OL:336:LYS:NZ	2.53	0.42
16:Ax:109:LEU:HD23	8:FE:308:ARG:HE	1.83	0.42
9:BF:6:HIS:CD2	9:BF:21:TRP:HE1	2.38	0.42
8:BK:51:THR:HG21	8:BK:243:ARG:HG2	2.01	0.42
19:BR:158:ARG:HA	19:BR:161:THR:HG22	2.01	0.42
19:BR:214:GLU:O	19:BR:218:GLU:HG3	2.20	0.42
21:BV:123:PRO:HG2	21:BV:126:GLN:HG2	2.02	0.42
14:Ba:100:MET:HA	29:DV:56:PHE:HD1	1.83	0.42
14:Bb:275:THR:O	14:Bb:278:ARG:NH2	2.52	0.42
26:Bu:181:ASN:OD1	33:Cs:30:ARG:NH1	2.52	0.42
26:Bu:279:THR:OG1	26:Bu:282:GLN:OE1	2.34	0.42
28:C0:405:ARG:HD2	28:F3:457:HIS:CG	2.54	0.42
28:C0:448:LEU:HD12	28:C9:113:SER:HB3	2.01	0.42
28:C4:124:THR:O	28:C4:128:ILE:HG12	2.20	0.42
28:C5:467:TYR:CD1	32:Co:384:TYR:HD2	2.37	0.42
28:C7:361:ILE:HD13	28:C7:458:ASP:HB3	2.01	0.42
8:CA:188:ILE:HD13	8:CA:395:LEU:HD22	2.02	0.42
9:CB:63:ALA:O	9:CB:89:ASN:ND2	2.53	0.42
8:CC:437:VAL:O	9:CD:391:ARG:NH2	2.47	0.42
9:CF:105:HIS:O	9:CF:150:LEU:HD21	2.19	0.42
9:CF:257:MET:HE1	9:CF:313:VAL:C	2.44	0.42
9:CJ:215:LEU:HD12	9:CJ:215:LEU:HA	1.88	0.42
8:CM:401:LYS:HE3	8:CM:401:LYS:HB3	1.83	0.42
2:CU:8:SER:HB3	2:CU:80:LEU:HD21	2.02	0.42
2:CZ:120:HIS:NE2	2:CZ:147:ASP:OD2	2.53	0.42
33:Cq:161:LYS:HD3	33:Cq:161:LYS:HA	1.84	0.42
33:Cs:169:ARG:C	33:Cs:173:ASN:HD22	2.27	0.42
33:Cw:130:LYS:HB2	33:Cw:130:LYS:HE2	1.88	0.42
33:Cw:199:ILE:HD13	33:Cw:199:ILE:HA	1.88	0.42
33:Cw:221:LEU:HD12	33:Cw:221:LEU:HA	1.92	0.42
33:Cw:355:LYS:HD3	33:Cw:355:LYS:HA	1.72	0.42
29:D2:156:LYS:HE3	29:D2:261:ASN:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D2:199:TYR:OH	29:EA:248:ASP:OD1	2.24	0.42
29:D4:273:LEU:HD12	29:D4:273:LEU:HA	1.82	0.42
29:D5:187:LEU:HD23	29:D5:187:LEU:HA	1.81	0.42
29:D6:127:MET:HE2	29:D6:127:MET:HB3	1.82	0.42
29:D6:274:ARG:NH1	29:D6:277:SER:HB3	2.35	0.42
29:D9:130:LYS:HA	29:D9:130:LYS:HD3	1.81	0.42
9:DH:8:GLN:NE2	9:DH:13:GLY:O	2.40	0.42
9:DH:202:ILE:HD13	9:DH:229:VAL:HG21	2.02	0.42
9:DL:207:LEU:HD23	9:DL:225:LEU:HG	2.01	0.42
9:DN:199:THR:OG1	9:DN:264:HIS:ND1	2.47	0.42
28:DO:284:PHE:HZ	28:F5:453:ALA:HB2	1.85	0.42
29:DV:177:LYS:HB2	29:DV:239:ILE:HG21	2.02	0.42
29:DW:45:TYR:HB3	63:n:158:LYS:NZ	2.35	0.42
29:DW:203:LYS:H	29:DW:203:LYS:HG2	1.56	0.42
29:DX:357:LYS:HB3	29:DX:357:LYS:HE3	1.78	0.42
29:DX:449:MET:HE2	29:DX:449:MET:HB2	1.85	0.42
35:Da:96:ASP:HB3	35:Da:99:GLU:HG2	2.01	0.42
41:Dn:212:GLN:OE1	9:OF:391:ARG:NH1	2.52	0.42
43:E3:101:ARG:NE	28:F4:148:GLU:OE1	2.43	0.42
9:EB:291:GLN:NE2	9:EB:292:GLN:HB2	2.34	0.42
8:EC:264:ARG:HH22	8:EC:428:LEU:HD11	1.84	0.42
9:ED:343:GLU:N	9:ED:343:GLU:OE1	2.53	0.42
9:EF:68:LEU:HD12	9:EF:143:THR:HB	2.02	0.42
8:EG:40:LYS:NZ	47:I:510:ASP:HB2	2.34	0.42
8:EG:274:PRO:HG3	8:EG:374:ALA:HA	2.02	0.42
8:EG:335:ILE:HD13	8:EG:335:ILE:HA	1.90	0.42
8:EG:413:MET:HE2	8:EG:413:MET:HB3	1.92	0.42
8:EK:398:MET:HE1	8:EK:404:PHE:CD2	2.55	0.42
8:EM:54:SER:HB3	8:EM:62:VAL:HG13	2.01	0.42
8:EM:304:LYS:HD2	8:EM:304:LYS:HA	1.85	0.42
29:EP:145:LEU:HD23	29:EP:145:LEU:HA	1.90	0.42
29:EP:477:LYS:HD2	29:EP:477:LYS:HA	1.55	0.42
28:F4:213:ASP:OD1	28:F4:213:ASP:N	2.49	0.42
9:FB:32:PRO:HB2	9:FB:83:GLN:HE22	1.85	0.42
9:FD:300:MET:N	9:FD:300:MET:SD	2.93	0.42
8:FK:273:ALA:HB3	8:FK:375:VAL:HG13	2.02	0.42
9:FL:262:ARG:NH1	9:FL:421:GLU:OE1	2.52	0.42
8:FM:303:VAL:HG12	8:FM:305:CYS:HB2	2.01	0.42
8:FM:391:LEU:HD23	8:FM:391:LEU:HA	1.92	0.42
9:GB:324:LYS:HA	9:GB:327:ASP:HB3	2.01	0.42
8:GE:286:LEU:HA	8:GE:290:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GJ:165:ASN:HB2	9:GJ:167:PHE:HE1	1.84	0.42
8:GK:413:MET:HE1	8:GK:417:GLU:OE1	2.19	0.42
8:HC:417:GLU:HA	8:HC:420:GLU:HG2	2.02	0.42
8:HE:155:GLU:OE2	8:HE:197:HIS:NE2	2.52	0.42
8:HG:143:GLY:O	8:HG:186:ASN:ND2	2.41	0.42
9:HH:139:LEU:HG	9:HH:168:SER:HB3	2.02	0.42
8:HM:298:PRO:HG2	8:HM:308:ARG:HH22	1.84	0.42
9:IF:12:CYS:HB2	69:IF:501:GDP:C8	2.55	0.42
9:IF:309:ARG:NH1	9:IF:339:SER:O	2.52	0.42
9:JD:172:SER:OG	9:JD:175:VAL:O	2.32	0.42
8:JE:431:ASP:O	8:JE:434:GLU:HG3	2.20	0.42
9:JF:2:ARG:HB3	9:JF:131:GLN:HB2	2.02	0.42
8:JK:18:ASN:HB3	1:V:97:MET:HE3	2.00	0.42
8:JM:147:SER:O	8:JM:151:SER:OG	2.33	0.42
8:KG:242:LEU:HD11	8:KG:252:LEU:HD13	2.01	0.42
9:KL:362:LYS:HD3	9:KL:362:LYS:HA	1.75	0.42
9:KN:58:LYS:HE3	9:KN:58:LYS:HB3	1.78	0.42
8:KO:54:SER:OG	8:KO:55:GLU:N	2.52	0.42
8:KO:216:ASN:HB3	8:KO:275:VAL:O	2.19	0.42
9:LD:117:LEU:HD21	9:LD:154:LYS:HB3	2.01	0.42
9:LD:392:LYS:HG2	9:LD:395:LEU:HD22	2.02	0.42
9:LL:77:ARG:HH12	47:Y:40:VAL:HG13	1.84	0.42
9:LL:100:ASN:ND2	9:LL:401:GLU:OE2	2.52	0.42
8:LM:125:LEU:HD23	8:LM:125:LEU:HA	1.92	0.42
9:MD:322:SER:OG	9:MD:323:MET:N	2.49	0.42
8:MI:166:LYS:N	8:MI:199:ASP:OD2	2.44	0.42
9:MJ:8:GLN:HB2	9:MJ:65:LEU:HA	2.00	0.42
8:MK:205:ASP:HB2	8:MK:303:VAL:HA	2.01	0.42
8:MK:370:LYS:HB3	8:MK:370:LYS:HE2	1.74	0.42
9:ML:378:PHE:HA	9:ML:381:ILE:HG22	2.00	0.42
9:MN:139:LEU:HB2	9:MN:171:PRO:HD3	2.02	0.42
9:MN:250:LEU:HD23	9:MN:250:LEU:HA	1.89	0.42
9:N0:33:THR:HG21	54:U:196:GLN:HE21	1.85	0.42
9:N0:376:GLU:HA	9:N0:379:LYS:NZ	2.31	0.42
8:NG:269:LEU:HD13	8:NG:381:THR:HG23	2.02	0.42
8:NI:406:HIS:CD2	8:NI:407:TRP:CD1	3.07	0.42
8:NK:2:ARG:HG3	8:NK:133:GLN:HE22	1.84	0.42
8:NK:288:VAL:HG13	8:NK:319:TYR:HE2	1.85	0.42
51:O:33:ARG:HE	51:O:33:ARG:HB3	1.66	0.42
9:OD:131:GLN:NE2	9:OD:250:LEU:HB3	2.35	0.42
9:OF:323:MET:HE2	9:OF:323:MET:HB2	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OG:121:ARG:HD2	8:OG:124:LYS:HZ1	1.84	0.42
8:OK:192:HIS:ND1	8:OK:424:ASP:OD2	2.36	0.42
8:PE:88:HIS:CE1	8:PE:90:GLU:HB3	2.53	0.42
8:PE:291:ILE:HD13	8:PE:291:ILE:HG21	1.86	0.42
9:PF:112:LEU:HD11	9:PF:147:MET:HE2	2.01	0.42
9:PF:139:LEU:HA	9:PF:145:SER:HB2	2.01	0.42
9:PJ:136:THR:HG22	9:PJ:167:PHE:HB2	2.01	0.42
9:PJ:337:ASN:HB3	9:PJ:340:TYR:HD2	1.83	0.42
8:PK:352:LYS:HD3	9:PL:177:ASP:O	2.20	0.42
9:PL:40:SER:OG	9:PL:41:ASP:N	2.53	0.42
9:PL:171:PRO:HD3	9:PL:181:GLU:OE2	2.19	0.42
8:PM:27:GLU:HA	8:PM:361:THR:HG21	2.01	0.42
8:PM:121:ARG:HE	8:PM:124:LYS:CD	2.33	0.42
8:PM:142:GLY:O	8:PM:186:ASN:ND2	2.50	0.42
8:PM:320:ARG:HB3	8:PM:356:ASN:HB3	2.01	0.42
8:QA:75:VAL:HB	8:QA:79:ARG:HH21	1.82	0.42
9:QB:380:ARG:HE	9:QB:380:ARG:HB2	1.71	0.42
8:QC:315:CYS:HB3	8:QC:377:MET:HE1	2.01	0.42
9:QF:34:GLY:HA3	9:QF:58:LYS:HG3	2.02	0.42
8:QG:93:ILE:HG21	8:QG:118:VAL:HG12	2.02	0.42
9:QL:362:LYS:HG3	9:QL:363:MET:HG3	2.01	0.42
9:QL:406:MET:HE3	9:QL:406:MET:H	1.85	0.42
8:QM:12:ALA:O	8:QM:16:ILE:HG22	2.19	0.42
8:RA:72:PRO:HA	8:RA:75:VAL:HG12	2.01	0.42
8:RA:311:LYS:O	8:RA:382:THR:OG1	2.34	0.42
8:RA:344:VAL:HG21	8:RA:346:TRP:HE3	1.84	0.42
8:RC:25:CYS:SG	8:RC:86:LEU:HD11	2.59	0.42
8:RC:153:LEU:O	8:RC:157:LEU:HG	2.19	0.42
8:RC:255:PHE:HZ	8:RC:318:LEU:HD11	1.85	0.42
8:RK:7:ILE:HG21	8:RK:122:ILE:HD11	2.01	0.42
8:RK:260:VAL:HG12	8:RK:266:HIS:HA	2.01	0.42
9:RL:11:GLN:HG3	69:RL:501:GDP:O1A	2.19	0.42
9:RL:324:LYS:HE3	9:RL:324:LYS:HB3	1.77	0.42
8:RM:2:ARG:NH2	8:RM:243:ARG:O	2.53	0.42
8:RM:156:ARG:HA	8:RM:156:ARG:HD2	1.81	0.42
8:RM:301:GLN:CD	8:RM:301:GLN:H	2.28	0.42
8:SE:234:ILE:HD13	8:SE:234:ILE:HA	1.90	0.42
8:SE:329:ASN:C	8:SE:329:ASN:ND2	2.69	0.42
8:SE:362:VAL:HG11	8:SE:368:LEU:HB2	2.02	0.42
8:SK:16:ILE:HA	8:SK:228:ASN:ND2	2.34	0.42
8:SK:251:ASP:OD1	8:SK:251:ASP:N	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SM:69:ASP:CG	8:SM:71:GLU:H	2.28	0.42
8:TC:27:GLU:OE1	8:TC:361:THR:OG1	2.36	0.42
9:TH:20:PHE:O	9:TH:24:ILE:HG22	2.19	0.42
8:TK:2:ARG:HB3	8:TK:242:LEU:HD22	2.02	0.42
8:TK:223:THR:OG1	8:TK:224:TYR:N	2.52	0.42
9:UB:17:GLY:O	9:UB:21:TRP:HD1	2.03	0.42
9:UB:151:LEU:HD12	9:UB:151:LEU:HA	1.80	0.42
9:UB:407:GLU:OE2	9:UB:407:GLU:N	2.49	0.42
8:UC:26:LEU:HD21	8:UC:364:PRO:HD3	2.01	0.42
9:UD:22:GLU:HA	9:UD:81:PHE:CE2	2.55	0.42
9:UJ:251:ARG:HA	9:UJ:251:ARG:HD2	1.87	0.42
8:UK:154:MET:HE2	8:UK:154:MET:HB2	1.71	0.42
9:UL:226:ASN:OD1	69:UL:501:GDP:N1	2.47	0.42
9:VB:156:ARG:NH1	9:VB:162:ARG:O	2.52	0.42
9:VD:332:ASN:OD1	9:VD:332:ASN:N	2.52	0.42
8:VG:138:PHE:HZ	8:VG:235:VAL:HG11	1.84	0.42
9:VH:73:MET:SD	9:VH:92:PHE:HB3	2.59	0.42
8:VM:311:LYS:NZ	8:VM:436:GLY:O	2.47	0.42
9:VN:156:ARG:NH2	9:VN:197:ASP:OD1	2.53	0.42
9:VN:337:ASN:HB3	9:VN:340:TYR:HB2	2.01	0.42
9:WB:270:PHE:O	9:WB:298:ASN:ND2	2.48	0.42
8:WC:64:ARG:HD3	8:WC:129:CYS:SG	2.59	0.42
9:WF:45:GLU:H	9:WF:45:GLU:HG3	1.59	0.42
8:WK:345:ASP:OD1	8:WK:345:ASP:N	2.42	0.42
8:WM:238:ILE:HG23	8:WM:239:THR:HG23	2.00	0.42
56:XI:120:THR:O	56:XI:120:THR:OG1	2.36	0.42
56:XJ:94:LEU:HD11	56:XJ:98:ASN:HA	2.01	0.42
57:YI:145:VAL:HG12	57:YI:149:LEU:HD23	2.02	0.42
57:YL:39:SER:OG	57:YL:45:LYS:HB3	2.19	0.42
57:YL:54:ARG:CZ	57:YL:54:ARG:HA	2.49	0.42
58:Z:38:ARG:HD3	58:Z:38:ARG:HA	1.90	0.42
59:b:515:ILE:HA	59:b:518:LYS:HE2	2.01	0.42
60:g:211:VAL:HA	60:g:227:THR:HA	2.01	0.42
60:g:470:ILE:HG23	60:g:481:THR:HG22	2.02	0.42
63:l:24:ILE:HD11	63:l:30:LEU:HD22	2.01	0.42
63:m:72:LEU:HD13	63:m:80:LEU:HD12	2.02	0.42
63:n:74:ASP:HB2	63:n:111:ARG:HH21	1.85	0.42
46:o:527:GLN:HA	46:o:530:TRP:CD1	2.53	0.42
58:q:125:ILE:HD12	58:q:125:ILE:HA	1.83	0.42
65:t:162:LYS:HG2	65:t:168:PHE:CZ	2.54	0.42
3:x:107:ILE:H	3:x:107:ILE:HG12	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:x:159:ARG:HH22	3:x:168:SER:HG	1.62	0.42
2:0C:77:LEU:HD11	2:0C:146:LEU:HD22	2.02	0.42
2:0G:18:ILE:HD13	2:0G:18:ILE:HA	1.85	0.42
2:0W:60:ASN:OD1	2:0W:62:THR:OG1	2.32	0.42
2:0Y:2:MET:HE1	2:0Y:152:TRP:CZ3	2.54	0.42
2:0k:34:ARG:HH11	2:0k:44:ILE:HD11	1.85	0.42
4:3:1401:ILE:HB	4:3:1493:ARG:HH11	1.84	0.42
7:A1:152:THR:HB	7:A1:157:SER:HA	2.01	0.42
7:A5:28:PRO:HA	8:QG:123:ARG:HH11	1.84	0.42
7:A7:7:VAL:HG21	9:SL:426:GLN:HE21	1.85	0.42
7:A7:14:ARG:HA	7:A7:14:ARG:HD3	1.71	0.42
9:AD:257:MET:HE3	9:AD:312:THR:OG1	2.20	0.42
9:AF:63:ALA:O	9:AF:89:ASN:ND2	2.53	0.42
9:AL:161:ASP:O	9:AL:162:ARG:NH1	2.52	0.42
9:AL:293:MET:HG2	9:AL:367:PHE:CD1	2.55	0.42
8:AM:425:LEU:HD12	8:AM:425:LEU:HA	1.85	0.42
13:Ab:645:LYS:O	13:Ab:649:LYS:HG3	2.20	0.42
13:Ac:268:ARG:NH2	9:CF:80:PRO:HD3	2.34	0.42
13:Ad:326:ILE:HD13	13:Ad:326:ILE:HA	1.81	0.42
13:Ad:333:TRP:HB3	9:CB:32:PRO:HG2	2.02	0.42
18:B6:113:ALA:O	18:B6:117:ILE:HG12	2.20	0.42
18:B6:239:GLN:OE1	46:o:173:ARG:NH1	2.53	0.42
8:BA:279:GLU:OE1	14:Be:220:SER:OG	2.36	0.42
8:BC:310:GLY:H	8:BC:383:ALA:HB2	1.83	0.42
8:BC:360:PRO:HG2	8:BC:371:VAL:HG23	2.01	0.42
9:BF:239:CYS:HB3	9:BF:247:ASN:HB2	2.02	0.42
8:BK:333:ALA:O	8:BK:337:THR:OG1	2.38	0.42
19:BP:436:LEU:HD23	19:BP:436:LEU:HA	1.73	0.42
19:BQ:142:ARG:HD2	19:BQ:142:ARG:HA	1.86	0.42
19:BR:97:LYS:HD3	8:MI:422:ARG:HG3	2.01	0.42
23:Bg:105:LYS:HB2	23:Bg:105:LYS:HE3	1.86	0.42
21:Bk:240:LEU:HD22	26:Bq:120:LEU:HD21	2.01	0.42
21:Bk:336:ARG:HD2	8:LK:58:ALA:HB1	2.02	0.42
27:Br:169:LEU:HD23	9:HB:276:ARG:HG2	2.01	0.42
29:C1:393:LYS:HZ2	29:C1:393:LYS:HG3	1.57	0.42
28:C4:192:LEU:HD21	28:C4:196:ARG:HH21	1.83	0.42
8:CE:195:LEU:HD12	8:CE:266:HIS:HE1	1.84	0.42
8:CG:188:ILE:HD11	8:CG:391:LEU:HG	2.02	0.42
8:CG:296:PHE:HD2	8:CG:341:ILE:HG13	1.83	0.42
9:CJ:148:GLY:O	9:CJ:152:ILE:HG13	2.18	0.42
8:CK:19:ALA:HA	8:CK:22:GLU:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CK:203:MET:HE3	8:CK:203:MET:HB3	1.83	0.42
8:CM:271:THR:HB	8:CM:377:MET:HB3	2.01	0.42
14:CO:229:PHE:O	8:FG:221:ARG:NH2	2.53	0.42
30:CW:426:PRO:HB2	9:LJ:15:GLN:OE1	2.20	0.42
2:Ca:15:LYS:HA	2:Ca:15:LYS:HD3	1.74	0.42
2:Ch:87:LEU:HD12	2:Ch:87:LEU:HA	1.87	0.42
32:Cm:43:ARG:NH1	32:Cm:47:GLU:OE1	2.52	0.42
32:Co:282:LEU:HG	32:Co:286:MET:HE3	2.02	0.42
33:Cu:161:LYS:HD3	33:Cu:161:LYS:HA	1.88	0.42
33:Cu:290:ILE:HD11	33:Cu:366:LEU:HB3	2.01	0.42
33:Cx:228:HIS:O	33:Cx:232:GLU:HG2	2.20	0.42
29:D1:203:LYS:HD3	29:EP:255:ARG:NH1	2.35	0.42
29:D1:314:ARG:O	29:D1:318:ILE:HG23	2.20	0.42
29:D3:358:ASN:O	29:D3:362:THR:HG23	2.20	0.42
29:D5:273:LEU:HD12	29:D5:273:LEU:HA	1.83	0.42
8:DC:322:ASP:OD1	8:DC:322:ASP:N	2.49	0.42
9:DF:7:LEU:HD23	9:DF:64:VAL:HB	2.02	0.42
8:DI:168:GLU:O	8:DI:202:PHE:N	2.52	0.42
8:DK:188:ILE:HD11	8:DK:391:LEU:HD22	2.02	0.42
29:DT:358:ASN:O	29:DT:362:THR:HG23	2.19	0.42
29:DU:121:GLY:C	29:DU:125:ARG:HH12	2.26	0.42
29:DU:225:ILE:O	29:DU:229:GLN:HG2	2.18	0.42
29:DW:195:LEU:HD23	29:DW:195:LEU:HA	1.86	0.42
39:Dj:71:ILE:HD12	39:Dj:92:GLU:HG2	2.01	0.42
9:EB:52:ASN:N	9:EB:60:VAL:O	2.49	0.42
8:EC:63:PRO:HG3	8:EC:86:LEU:HG	2.01	0.42
9:EH:345:ILE:HG13	8:EI:398:MET:HE1	2.01	0.42
9:EN:31:ASP:HB3	9:EN:33:THR:HG22	2.02	0.42
9:EN:163:ILE:HG23	9:EN:251:ARG:HH21	1.84	0.42
44:EY:124:LEU:HD23	44:EY:124:LEU:HA	1.90	0.42
42:F:503:ARG:CZ	42:F:503:ARG:HB2	2.49	0.42
28:F3:137:LYS:HE3	28:F3:137:LYS:HB2	1.74	0.42
28:F3:157:LYS:HE2	28:F3:157:LYS:HB3	1.83	0.42
9:FB:129:CYS:HB3	8:FC:96:LYS:HD2	2.00	0.42
9:FB:130:LEU:HG	9:FB:162:ARG:HD2	2.01	0.42
9:FF:256:ASN:HB3	8:FG:181:VAL:HG22	2.02	0.42
8:FG:108:TYR:CE2	8:FG:413:MET:HE3	2.54	0.42
9:FJ:1:MET:HE2	8:FK:96:LYS:HA	2.01	0.42
8:FK:231:ILE:O	8:FK:235:VAL:HG23	2.20	0.42
9:FL:41:ASP:O	9:FL:45:GLU:HG3	2.19	0.42
8:FM:256:GLN:OE1	9:FN:397:TRP:HH2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GB:86:ARG:HG2	9:GB:88:ASP:H	1.85	0.42
9:GF:156:ARG:HD2	9:GF:156:ARG:HA	1.88	0.42
8:GG:273:ALA:HB2	8:GG:295:CYS:HB3	2.02	0.42
8:GM:216:ASN:O	8:GM:280:LYS:NZ	2.49	0.42
8:GM:229:ARG:HD2	8:GM:363:VAL:HG11	2.02	0.42
9:GN:105:HIS:ND1	9:GN:146:GLY:O	2.46	0.42
8:HC:346:TRP:CB	9:HD:391:ARG:HD3	2.50	0.42
8:HC:346:TRP:HB3	9:HD:391:ARG:HD3	2.02	0.42
8:HG:330:ALA:O	8:HG:334:THR:HG23	2.19	0.42
9:HJ:155:ILE:HD13	9:HJ:155:ILE:HA	1.91	0.42
9:HJ:385:PHE:HZ	9:HJ:408:PHE:HB3	1.85	0.42
8:HO:10:GLY:HA2	8:HO:145:THR:HG23	2.00	0.42
8:HO:88:HIS:HB3	8:HO:91:GLN:HG3	2.02	0.42
8:IC:7:ILE:HB	8:IC:137:ILE:HD13	2.01	0.42
8:IC:339:ARG:O	8:IC:339:ARG:HD2	2.19	0.42
9:ID:36:TYR:OH	9:ID:40:SER:O	2.38	0.42
8:IE:188:ILE:HG13	8:IE:395:LEU:HD13	2.02	0.42
8:II:188:ILE:CD1	8:II:425:LEU:HD13	2.50	0.42
8:IK:102:ASN:HB3	8:IK:105:ARG:HB2	2.02	0.42
9:IL:143:THR:O	9:IL:147:MET:HB2	2.19	0.42
9:IN:249:ASP:O	9:IN:253:LEU:HD12	2.19	0.42
9:IN:290:THR:HA	9:IN:293:MET:HG2	2.02	0.42
9:JF:265:PHE:HE2	9:JF:418:LEU:HD21	1.83	0.42
8:JM:166:LYS:HB2	8:JM:166:LYS:HE3	1.90	0.42
9:KF:125:GLU:OE2	9:KF:159:TYR:OH	2.34	0.42
8:KI:167:LEU:HD21	8:KI:255:PHE:HZ	1.84	0.42
9:KL:31:ASP:OD2	9:KL:35:THR:OG1	2.34	0.42
50:L2:59:VAL:HG13	50:L2:60:PHE:CD1	2.51	0.42
8:LG:172:TYR:HE1	8:LG:387:ALA:HB1	1.83	0.42
9:LL:73:MET:HA	9:LL:76:VAL:HB	2.01	0.42
9:LL:128:ASP:N	9:LL:128:ASP:OD1	2.52	0.42
9:LL:170:VAL:HG23	9:LL:203:ASP:OD1	2.20	0.42
8:LM:114:ILE:HD13	8:LM:114:ILE:HA	1.95	0.42
8:MG:104:ALA:HB2	8:MG:413:MET:HE3	2.01	0.42
8:MG:182:VAL:HG23	8:MG:186:ASN:ND2	2.34	0.42
8:MG:215:ARG:NH2	8:MG:300:ASN:OD1	2.49	0.42
8:MG:234:ILE:HD11	8:MG:272:TYR:HB2	2.01	0.42
8:MG:260:VAL:HG23	9:MH:397:TRP:HE1	1.84	0.42
8:MI:388:TRP:HB3	8:MI:425:LEU:HD11	2.02	0.42
9:MJ:204:ASN:ND2	69:MJ:501:GDP:N3	2.67	0.42
8:MK:36:MET:HE3	8:MK:36:MET:HB3	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MN:8:GLN:HE22	9:MN:17:GLY:HA3	1.84	0.42
9:MN:174:LYS:HD2	9:MN:174:LYS:HA	1.81	0.42
9:MN:181:GLU:HG2	9:MN:182:PRO:HD3	2.01	0.42
51:N:105:SER:OG	51:N:108:GLN:OE1	2.23	0.42
9:N0:3:GLU:OE2	9:N0:62:ARG:NE	2.52	0.42
9:NB:324:LYS:HG3	8:NC:210:TYR:CG	2.54	0.42
8:NC:88:HIS:ND1	8:NC:89:PRO:HD2	2.34	0.42
8:NC:124:LYS:HE2	8:NC:124:LYS:HB2	1.91	0.42
8:NC:427:ALA:HA	8:NC:430:LYS:HE3	2.01	0.42
9:NF:237:THR:HG22	9:NF:250:LEU:HD11	2.01	0.42
8:NG:60:LYS:HG2	8:OG:283:HIS:HB3	2.01	0.42
8:NI:154:MET:HE1	8:NI:194:THR:HG22	2.00	0.42
8:NI:214:ARG:NH2	8:NI:219:ILE:O	2.52	0.42
9:NJ:214:THR:HG22	9:NJ:215:LEU:HD23	2.01	0.42
9:NL:36:TYR:OH	9:NL:43:GLN:NE2	2.45	0.42
51:O:33:ARG:NH2	51:O:34:PRO:HG3	2.35	0.42
9:O0:271:ALA:O	9:O0:292:GLN:NE2	2.49	0.42
9:OB:107:THR:OG1	9:OB:108:GLU:N	2.52	0.42
8:OC:22:GLU:OE2	8:OC:83:TYR:OH	2.27	0.42
8:OC:132:LEU:HD22	8:OC:164:LYS:HD3	2.01	0.42
8:OE:219:ILE:HD12	8:OE:219:ILE:HA	1.91	0.42
8:OG:185:TYR:CZ	8:OG:398:MET:HE2	2.55	0.42
8:OG:244:PHE:HB2	8:OG:356:ASN:HD21	1.85	0.42
9:OH:228:LEU:HD12	9:OH:300:MET:HE1	2.01	0.42
9:OH:299:MET:HA	9:OH:299:MET:HE3	2.01	0.42
8:OK:192:HIS:NE2	8:OK:420:GLU:OE2	2.53	0.42
8:OK:214:ARG:NH1	8:OK:220:GLU:HB3	2.34	0.42
9:OL:389:PHE:HZ	9:OL:405:GLU:HG2	1.84	0.42
9:PB:189:VAL:HA	9:PB:192:LEU:HD23	2.02	0.42
9:PB:232:THR:HG22	9:PB:270:PHE:HB2	2.01	0.42
9:PH:139:LEU:HD21	9:PH:168:SER:HB2	2.02	0.42
9:PJ:323:MET:HE3	9:PJ:323:MET:HB3	1.64	0.42
9:PL:255:VAL:HG21	8:PM:100:ALA:O	2.20	0.42
8:PM:225:THR:HG22	8:PM:229:ARG:HE	1.85	0.42
8:QA:188:ILE:HD12	8:QA:425:LEU:HD11	2.01	0.42
8:QE:6:SER:O	8:QE:66:VAL:N	2.53	0.42
8:QE:11:GLN:O	8:QE:15:GLN:HG3	2.18	0.42
9:QF:323:MET:O	9:QF:327:ASP:HB2	2.19	0.42
8:QG:276:ILE:HB	8:QG:280:LYS:HB2	2.02	0.42
8:QG:324:VAL:HG23	8:QG:327:ASP:H	1.85	0.42
8:QI:207:GLU:HA	8:QI:210:TYR:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QJ:190:HIS:CD2	9:QJ:414:ASN:HD22	2.38	0.42
8:QM:224:TYR:CE2	67:QM:501:GTP:H2'	2.55	0.42
9:RB:266:PHE:HB3	9:RB:267:MET:H	1.66	0.42
9:RB:378:PHE:O	9:RB:382:SER:OG	2.28	0.42
8:RC:291:ILE:HD13	8:RC:291:ILE:HG21	1.83	0.42
9:RF:10:GLY:O	9:RF:14:ASN:N	2.51	0.42
8:RK:253:THR:O	8:RK:257:THR:HG23	2.20	0.42
9:RL:293:MET:HE1	9:RL:366:THR:C	2.44	0.42
8:RM:3:GLU:HA	8:RM:51:THR:HA	2.02	0.42
8:SA:207:GLU:HG3	8:SA:304:LYS:HG3	2.00	0.42
8:SA:330:ALA:O	8:SA:334:THR:HG23	2.20	0.42
8:SE:203:MET:N	8:SE:203:MET:SD	2.93	0.42
8:SE:288:VAL:O	8:SE:292:THR:HG23	2.20	0.42
9:SH:20:PHE:CE1	9:SH:233:MET:HG3	2.55	0.42
8:SI:14:VAL:HG21	8:SI:74:VAL:HG13	2.02	0.42
8:SI:141:PHE:HD2	8:SI:172:TYR:HD1	1.67	0.42
8:TC:184:PRO:HG3	8:TC:394:LYS:HD2	2.00	0.42
8:TK:56:THR:OG1	8:TK:57:GLY:N	2.52	0.42
9:TL:8:GLN:HB2	9:TL:65:LEU:HD13	2.02	0.42
8:TM:298:PRO:HB3	8:TM:307:PRO:HD2	2.02	0.42
8:TM:417:GLU:HA	8:TM:420:GLU:HG3	2.02	0.42
9:UB:86:ARG:HA	9:VB:281:TYR:HD2	1.84	0.42
8:UC:3:GLU:N	8:UC:3:GLU:OE1	2.50	0.42
8:UC:11:GLN:NE2	67:UC:501:GTP:O5'	2.49	0.42
9:UF:1:MET:N	9:UF:3:GLU:OE1	2.51	0.42
9:UF:88:ASP:OD2	9:UF:122:LYS:NZ	2.48	0.42
8:UG:207:GLU:HA	8:UG:210:TYR:HB2	2.00	0.42
9:UH:330:MET:HB3	9:UH:349:VAL:HG11	2.00	0.42
9:UJ:237:THR:HG22	9:UJ:250:LEU:HD21	2.02	0.42
9:UN:62:ARG:HG3	9:UN:123:GLU:HG3	2.01	0.42
9:UN:154:LYS:HA	9:UN:154:LYS:HD3	1.69	0.42
9:UN:314:ALA:HB3	9:UN:368:ILE:HG22	2.00	0.42
8:VE:5:ILE:HD13	8:VE:5:ILE:HA	1.87	0.42
9:VH:252:LYS:HA	9:VH:252:LYS:HE3	2.02	0.42
8:VI:198:SER:OG	8:VI:199:ASP:N	2.53	0.42
9:VJ:172:SER:OG	9:VJ:175:VAL:O	2.29	0.42
9:VL:173:PRO:HD3	9:VL:205:GLU:OE1	2.20	0.42
8:WC:329:ASN:HB3	9:WD:175:VAL:HG21	2.02	0.42
8:WC:337:THR:C	8:WC:339:ARG:HH12	2.26	0.42
9:WD:406:MET:HE3	9:WD:406:MET:HB3	1.85	0.42
8:WG:138:PHE:HZ	8:WG:235:VAL:HG21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WG:217:LEU:HD21	8:WG:368:LEU:HD23	2.01	0.42
9:WH:150:LEU:HD12	9:WH:150:LEU:HA	1.92	0.42
9:WH:286:VAL:O	9:WH:290:THR:HG23	2.19	0.42
47:X:420:LEU:HD12	47:X:442:TYR:CD2	2.53	0.42
56:XI:73:LEU:HA	56:XI:74:PRO:HD3	1.91	0.42
56:XI:86:TYR:O	56:XI:159:ASN:ND2	2.51	0.42
56:XK:125:LEU:HD23	56:XK:125:LEU:HA	1.92	0.42
59:a:244:LEU:HD23	59:a:244:LEU:HA	1.86	0.42
59:b:262:GLN:H	59:b:262:GLN:HG2	1.63	0.42
59:b:314:LYS:HD3	59:b:314:LYS:HA	1.88	0.42
59:c:290:LYS:HD2	59:c:290:LYS:HA	1.85	0.42
62:i:54:MET:HG3	62:i:123:GLY:HA2	2.02	0.42
2:0E:149:MET:O	2:0E:153:VAL:HG23	2.19	0.42
2:0Y:77:LEU:HD13	2:0Y:145:ILE:HG21	2.01	0.42
2:0i:129:ASP:OD1	2:0i:134:HIS:ND1	2.53	0.42
7:A8:164:LYS:HD2	7:A8:164:LYS:HA	1.74	0.42
7:A8:208:PRO:HA	7:A8:209:PRO:HD3	1.91	0.42
8:AA:90:GLU:OE1	8:AA:121:ARG:HD3	2.19	0.42
9:AB:282:ARG:NH2	9:AB:292:GLN:OE1	2.53	0.42
8:AE:285:GLN:HE22	8:KG:128:LEU:HD21	1.84	0.42
9:AF:3:GLU:HG3	9:AF:127:CYS:HB3	2.02	0.42
9:AF:207:LEU:HB3	9:AF:225:LEU:HD22	2.00	0.42
9:AH:145:SER:OG	9:AH:188:SER:HB2	2.20	0.42
9:AL:67:ASP:OD2	9:AL:72:THR:OG1	2.20	0.42
11:AT:239:THR:O	11:AT:242:GLN:NE2	2.48	0.42
11:AU:499:ARG:NH2	24:Bh:83:GLU:OE2	2.48	0.42
13:Aa:181:PRO:O	13:Aa:185:THR:HG23	2.19	0.42
13:Aa:630:TYR:CD1	47:Y:429:PRO:HD3	2.54	0.42
13:Ac:65:LEU:HB2	13:Ac:92:PHE:HB3	2.02	0.42
13:Ac:425:LYS:N	13:Ac:507:PHE:O	2.48	0.42
13:Ac:625:ILE:HD11	13:Ac:680:PHE:HB2	2.02	0.42
13:Ad:441:SER:OG	13:Ad:450:SER:OG	2.33	0.42
14:Ao:190:LEU:HD22	14:Ao:192:HIS:NE2	2.35	0.42
8:BA:8:HIS:HD2	8:BA:138:PHE:HB2	1.84	0.42
9:BB:20:PHE:CD2	9:BB:233:MET:HE3	2.54	0.42
8:BC:75:VAL:HG21	8:BC:94:THR:HG22	2.01	0.42
8:BE:399:TYR:OH	8:BE:415:GLU:OE2	2.30	0.42
9:BF:322:SER:OG	9:BF:325:GLU:HG2	2.19	0.42
9:BL:193:VAL:HG22	9:BL:265:PHE:HZ	1.84	0.42
19:BO:224:LEU:HD12	19:BO:224:LEU:HA	1.86	0.42
19:BP:214:GLU:O	19:BP:218:GLU:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BR:292:GLU:H	19:BR:292:GLU:HG2	1.71	0.42
19:BR:401:TYR:CZ	19:BR:407:THR:HB	2.55	0.42
20:BT:176:THR:HG21	20:BT:181:SER:HB3	2.02	0.42
22:BX:53:LYS:HE3	22:BX:53:LYS:HB3	1.73	0.42
14:Ba:254:LEU:HD13	14:Ba:265:ARG:HG3	2.00	0.42
21:Bj:103:ARG:HB2	21:Bj:106:THR:HG23	2.00	0.42
27:Br:32:GLN:CD	27:Br:36:ASN:HD21	2.28	0.42
27:Bs:459:LYS:H	27:Bs:459:LYS:HG2	1.67	0.42
5:C:161:ARG:HE	60:g:136:ASP:HB2	1.85	0.42
28:C4:371:GLU:O	28:C4:375:THR:HG22	2.20	0.42
9:CB:278:SER:O	9:CB:278:SER:OG	2.36	0.42
8:CC:64:ARG:HB2	8:CC:125:LEU:HD11	2.01	0.42
8:CE:88:HIS:CE1	8:CE:90:GLU:HB2	2.54	0.42
9:CF:143:THR:N	69:CF:501:GDP:O1B	2.50	0.42
8:CI:230:LEU:HD23	8:CI:230:LEU:HA	1.88	0.42
9:CL:154:LYS:HZ3	9:CL:154:LYS:HG2	1.61	0.42
9:CL:321:MET:SD	9:CL:321:MET:N	2.93	0.42
8:CM:10:GLY:HA2	8:CM:145:THR:HG23	2.01	0.42
2:CX:115:ARG:HH21	2:CX:132:ARG:HA	1.84	0.42
2:Cj:115:ARG:HH12	2:Cj:132:ARG:HA	1.83	0.42
32:Co:127:LEU:HD12	32:Co:127:LEU:HA	1.90	0.42
33:Cr:326:ASN:OD1	33:Cr:326:ASN:N	2.52	0.42
33:Cv:317:ARG:HH22	33:Cx:61:ARG:HH12	1.67	0.42
29:D2:161:TYR:O	29:D2:164:GLU:HG3	2.19	0.42
29:D2:430:LEU:HB3	29:D2:434:LYS:NZ	2.34	0.42
29:D3:156:LYS:HZ3	29:D3:156:LYS:HG3	1.70	0.42
29:D4:237:GLN:O	29:D4:241:ILE:HG13	2.19	0.42
29:D5:413:ASP:HB2	29:D5:415:PRO:HD2	2.02	0.42
8:DE:103:TYR:N	8:DE:186:ASN:OD1	2.52	0.42
8:DE:245:ASP:OD1	8:DE:246:GLY:N	2.52	0.42
9:DF:293:MET:SD	9:DF:367:PHE:HB2	2.60	0.42
9:DH:289:LEU:HD22	9:DH:363:MET:HE2	2.01	0.42
8:DI:250:VAL:CG2	8:DI:352:LYS:HE3	2.49	0.42
8:DI:329:ASN:OD1	8:DI:329:ASN:N	2.53	0.42
8:DM:187:SER:O	8:DM:190:THR:OG1	2.32	0.42
8:DM:262:TYR:HD2	8:DM:265:ILE:HD13	1.84	0.42
9:DN:25:SER:HB3	9:DN:30:ILE:HG13	2.02	0.42
29:DW:361:GLN:HE21	29:DW:458:LEU:HD11	1.85	0.42
43:E2:122:ILE:HD13	43:E2:133:ARG:NH1	2.34	0.42
8:EC:372:GLN:HG3	8:EC:373:ARG:HH21	1.85	0.42
9:ED:42:LEU:HA	9:ED:45:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EF:334:GLN:HE21	9:EF:334:GLN:HB3	1.55	0.42
9:EJ:303:CYS:SG	9:EJ:374:ILE:HA	2.60	0.42
8:EK:3:GLU:HB3	8:EK:129:CYS:SG	2.59	0.42
9:EL:280:GLN:OE1	9:EL:280:GLN:N	2.34	0.42
9:EL:347:ASN:ND2	8:EM:178:SER:O	2.48	0.42
9:EN:187:LEU:HD23	9:EN:187:LEU:HA	1.88	0.42
44:EU:208:LYS:HB3	44:EU:208:LYS:HE3	1.74	0.42
44:EY:329:ILE:HG13	44:EY:405:LEU:HD13	2.01	0.42
28:F2:279:ASP:OD1	28:F2:279:ASP:N	2.46	0.42
28:F3:43:THR:OG1	28:F3:44:HIS:N	2.51	0.42
28:F3:206:MET:H	28:F3:206:MET:HG2	1.68	0.42
9:FD:207:LEU:HB3	9:FD:225:LEU:HD22	2.01	0.42
8:FI:187:SER:HA	8:FI:190:THR:HG22	2.02	0.42
45:G:34:GLU:OE2	45:G:35:THR:N	2.52	0.42
9:GD:285:THR:N	9:GD:288:GLU:OE2	2.53	0.42
9:GF:358:PRO:HD2	9:GF:364:SER:HB3	2.01	0.42
8:GI:213:CYS:HA	8:GI:217:LEU:HB3	2.00	0.42
8:GK:343:PHE:HE2	8:GK:350:GLY:HA3	1.85	0.42
46:H:579:LEU:HD12	46:H:579:LEU:HA	1.88	0.42
9:HB:265:PHE:HB3	9:HB:374:ILE:HD13	2.00	0.42
9:HB:384:GLN:O	9:HB:388:MET:HG2	2.18	0.42
9:HH:296:ALA:HB3	9:HH:306:ARG:HH21	1.85	0.42
8:IE:224:TYR:HD1	8:IE:224:TYR:HA	1.74	0.42
8:IG:408:TYR:O	8:IG:413:MET:HB3	2.19	0.42
8:II:68:VAL:HG12	8:II:93:ILE:HB	2.01	0.42
9:IJ:65:LEU:HD23	9:IJ:65:LEU:HA	1.92	0.42
8:IK:70:LEU:HD13	8:IK:145:THR:HB	2.01	0.42
8:IK:326:LYS:CE	9:IL:208:TYR:HB3	2.50	0.42
9:IL:363:MET:HE3	9:IL:363:MET:HB2	1.95	0.42
9:IN:3:GLU:N	9:IN:3:GLU:OE2	2.53	0.42
8:IO:295:CYS:SG	8:IO:377:MET:HE3	2.60	0.42
9:JB:44:LEU:HD23	9:JB:44:LEU:HA	1.93	0.42
8:JC:188:ILE:HD12	8:JC:395:LEU:HB2	2.01	0.42
9:JD:392:LYS:HE3	9:JD:392:LYS:HB3	1.87	0.42
9:JJ:25:SER:HB3	9:JJ:30:ILE:HB	2.01	0.42
9:JJ:226:ASN:OD1	69:JJ:501:GDP:N1	2.48	0.42
48:K:70:ARG:HB3	48:K:71:SER:H	1.67	0.42
48:K:75:VAL:O	48:K:79:LEU:HG	2.20	0.42
49:K1:19:ILE:HA	49:K1:22:GLU:OE2	2.19	0.42
9:KB:257:MET:HE3	9:KB:312:THR:HB	2.02	0.42
8:KC:332:ILE:HA	8:KC:335:ILE:HG12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KD:379:LYS:HB2	9:KD:379:LYS:HE3	1.61	0.42
9:KF:135:LEU:HB3	9:KF:166:THR:HG22	2.02	0.42
9:KJ:68:LEU:HD23	9:KJ:68:LEU:HA	1.91	0.42
9:KJ:245:GLN:HE21	9:KJ:353:VAL:HG11	1.85	0.42
9:LF:203:ASP:HB2	9:LF:301:ALA:HA	2.01	0.42
9:LL:288:GLU:HA	9:LL:291:GLN:HG2	2.02	0.42
9:LN:5:VAL:HG22	9:LN:62:ARG:HD2	2.01	0.42
9:MF:290:THR:HA	9:MF:293:MET:HE3	2.00	0.42
8:MG:115:VAL:O	8:MG:119:LEU:HD22	2.20	0.42
8:MK:70:LEU:HD12	8:MK:145:THR:HB	2.00	0.42
9:ML:383:GLU:HA	9:ML:386:THR:HG22	2.02	0.42
8:MM:326:LYS:HE3	8:MM:326:LYS:HB3	1.84	0.42
8:MM:334:THR:O	8:MM:337:THR:OG1	2.31	0.42
9:N0:304:ASP:OD2	9:N0:307:HIS:ND1	2.44	0.42
9:NB:211:CYS:HA	9:NB:215:LEU:HD13	2.02	0.42
9:NF:130:LEU:HD12	9:NF:130:LEU:HA	1.91	0.42
8:NG:66:VAL:HA	8:NG:91:GLN:HB3	2.00	0.42
8:NG:309:HIS:HB3	58:Z:80:GLN:HE22	1.85	0.42
8:NI:172:TYR:HA	8:NI:173:PRO:HD3	1.91	0.42
8:OE:183:GLU:O	8:OE:187:SER:HB3	2.19	0.42
9:PB:286:VAL:O	9:PB:290:THR:HG23	2.19	0.42
9:PD:378:PHE:HA	9:PD:381:ILE:HG22	2.02	0.42
9:PF:201:CYS:SG	9:PF:374:ILE:HD11	2.59	0.42
9:PF:267:MET:HA	9:PF:268:PRO:HD3	1.85	0.42
9:PH:161:ASP:OD1	9:PH:161:ASP:N	2.52	0.42
9:QB:87:PRO:HA	9:QB:90:PHE:HD2	1.85	0.42
9:QB:131:GLN:NE2	9:QB:249:ASP:HB2	2.35	0.42
9:QD:54:ALA:HA	9:RD:283:ALA:HB2	2.01	0.42
9:QF:266:PHE:HB3	9:QF:369:GLY:H	1.84	0.42
8:QG:248:LEU:HD13	8:QG:248:LEU:HA	1.94	0.42
8:QI:240:ALA:HB1	8:QI:320:ARG:HH21	1.85	0.42
8:QM:163:LYS:HD3	8:QM:163:LYS:HA	1.69	0.42
8:QM:248:LEU:HD22	8:QM:354:GLY:HA2	2.01	0.42
8:QM:320:ARG:HG2	8:QM:374:ALA:HB3	2.02	0.42
9:RB:383:GLU:HA	9:RB:386:THR:HG22	2.02	0.42
9:RD:25:SER:HB2	9:RD:30:ILE:HB	2.00	0.42
9:RD:150:LEU:HD12	9:RD:150:LEU:HA	1.87	0.42
9:RD:330:MET:HE2	9:RD:330:MET:HB2	1.88	0.42
9:RF:16:ILE:HD11	9:RF:229:VAL:HG11	2.02	0.42
9:RF:40:SER:OG	9:RF:41:ASP:N	2.53	0.42
9:RF:156:ARG:NH2	9:RF:164:MET:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RI:111:GLY:O	8:RI:115:VAL:HG13	2.19	0.42
8:RK:336:LYS:HE2	8:RK:336:LYS:HB3	1.86	0.42
8:RM:140:SER:OG	67:RM:501:GTP:O2A	2.37	0.42
54:S:226:LYS:HD2	54:S:226:LYS:HA	1.91	0.42
8:SC:219:ILE:HD11	8:SC:222:PRO:HB3	2.01	0.42
8:SC:380:ASN:N	8:SC:380:ASN:OD1	2.52	0.42
9:SD:67:ASP:N	9:SD:67:ASP:OD1	2.52	0.42
8:SE:280:LYS:NZ	8:SE:284:GLU:OE1	2.52	0.42
9:SF:16:ILE:HD13	9:SF:226:ASN:OD1	2.19	0.42
9:SH:270:PHE:HD2	9:SH:273:LEU:HG	1.84	0.42
9:SJ:210:ILE:HD11	9:SJ:273:LEU:HD13	2.02	0.42
9:TD:230:SER:HA	9:TD:233:MET:HB2	2.01	0.42
9:TF:203:ASP:OD1	9:TF:206:ALA:N	2.46	0.42
8:TG:387:ALA:HA	8:TG:390:ARG:CZ	2.50	0.42
9:TH:24:ILE:HG12	9:TH:50:TYR:HD2	1.85	0.42
9:TJ:154:LYS:HE3	9:TJ:154:LYS:HB3	1.93	0.42
9:TJ:284:LEU:HD22	9:TJ:362:LYS:HB2	2.02	0.42
9:TL:162:ARG:HD3	9:TL:162:ARG:HA	1.88	0.42
9:UB:174:LYS:HE3	9:UB:174:LYS:HB3	1.83	0.42
9:UD:8:GLN:O	9:UD:66:VAL:HG22	2.19	0.42
9:UF:255:VAL:HG21	8:UG:101:ASN:HB2	2.00	0.42
9:UF:313:VAL:HG13	9:UF:367:PHE:HE1	1.83	0.42
8:UM:398:MET:HE3	8:UM:398:MET:HB2	1.86	0.42
8:UM:425:LEU:HD13	8:UM:428:LEU:HD23	2.01	0.42
9:VB:141:GLY:O	9:VB:184:ASN:ND2	2.45	0.42
8:VE:79:ARG:HG2	8:VE:92:LEU:HD13	2.01	0.42
8:VE:121:ARG:HA	8:VE:121:ARG:HD2	1.72	0.42
9:VH:267:MET:CE	9:VH:299:MET:HE1	2.48	0.42
8:VI:261:PRO:HB3	9:VJ:394:PHE:CE1	2.54	0.42
9:VJ:279:GLN:OE1	9:VJ:280:GLN:HB3	2.19	0.42
9:VJ:329:GLN:HA	9:VJ:332:ASN:HB2	2.01	0.42
8:VK:422:ARG:HA	8:VK:422:ARG:HD2	1.75	0.42
8:VM:352:LYS:HD2	8:VM:353:VAL:N	2.35	0.42
9:VN:165:ASN:HA	9:VN:198:GLU:HG2	2.02	0.42
9:WB:267:MET:HG2	9:WB:299:MET:CE	2.46	0.42
8:WC:259:LEU:HD21	8:WC:316:CYS:HB2	2.01	0.42
9:WF:101:TRP:NE1	9:WF:145:SER:O	2.52	0.42
8:WM:167:LEU:HD13	8:WM:202:PHE:CE1	2.54	0.42
9:WN:229:VAL:HA	9:WN:232:THR:HG22	2.00	0.42
47:X:51:ARG:O	47:X:53:GLN:NE2	2.43	0.42
47:X:509:ASP:HB3	47:X:512:VAL:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:XK:36:ARG:HG2	56:XK:47:LEU:HD12	2.00	0.42
57:YH:157:LEU:HB3	57:YH:196:ILE:HG21	2.01	0.42
57:YI:100:ILE:H	57:YI:100:ILE:HD12	1.84	0.42
59:a:143:ARG:HA	59:a:146:ILE:HG22	2.02	0.42
59:b:508:ARG:HG3	59:b:511:ARG:CZ	2.50	0.42
60:e:45:PRO:HB2	60:e:70:VAL:HG11	2.02	0.42
63:m:61:PHE:HB2	63:m:67:TYR:CZ	2.55	0.42
46:o:519:MET:HA	46:o:519:MET:HE2	2.00	0.42
1:0:202:THR:HG23	21:BV:373:ASN:ND2	2.34	0.42
2:0E:21:GLN:OE1	9:RJ:40:SER:HA	2.20	0.42
2:0E:90:GLY:O	2:0E:95:ASN:ND2	2.52	0.42
2:0E:111:LEU:H	2:0E:111:LEU:HD23	1.85	0.42
2:0g:117:LYS:HD3	2:0g:117:LYS:HA	1.65	0.42
2:0k:145:ILE:O	2:0k:149:MET:HG2	2.20	0.42
6:A0:180:CYS:SG	9:ID:336:LYS:HD2	2.60	0.42
7:A4:159:PRO:O	9:RL:332:ASN:ND2	2.49	0.42
7:A8:186:ARG:CZ	8:SI:119:LEU:H	2.32	0.42
8:AC:3:GLU:HG3	8:AC:129:CYS:SG	2.60	0.42
9:AD:122:LYS:HE2	9:AD:122:LYS:HB2	1.71	0.42
9:AD:228:LEU:HD13	9:AD:300:MET:HE2	2.01	0.42
9:AD:272:PRO:HG3	9:AD:364:SER:HA	2.01	0.42
9:AL:156:ARG:HD3	9:AL:164:MET:HE1	2.01	0.42
9:AL:289:LEU:O	9:AL:293:MET:HB2	2.20	0.42
8:AM:77:GLU:HG2	20:BT:238:THR:CG2	2.50	0.42
13:Aa:639:LEU:HD22	13:Aa:676:TYR:CD2	2.55	0.42
13:Ab:313:LYS:HD2	13:Ab:313:LYS:HA	1.67	0.42
13:Ab:620:ASN:OD1	13:Ab:620:ASN:N	2.53	0.42
13:Ac:635:LYS:C	13:Ac:636:LYS:HD2	2.44	0.42
15:Ap:143:LYS:HA	15:Ap:143:LYS:HD2	1.90	0.42
7:Av:137:PRO:C	8:NK:123:ARG:HH22	2.27	0.42
7:Aw:32:ILE:HG21	8:OE:215:ARG:HH22	1.85	0.42
17:B4:229:ARG:NH2	9:LB:26:ASP:OD1	2.49	0.42
8:BA:88:HIS:HB3	8:BA:91:GLN:NE2	2.35	0.42
8:BA:155:GLU:OE1	8:BA:156:ARG:NH2	2.51	0.42
9:BB:186:THR:HG23	9:BB:187:LEU:HD22	2.00	0.42
9:BD:31:ASP:HB3	9:BD:33:THR:HG22	2.02	0.42
9:BD:165:ASN:HD21	9:BD:250:LEU:HD22	1.85	0.42
8:BE:269:LEU:HD22	8:BE:303:VAL:HG21	2.02	0.42
8:BI:150:ALA:O	8:BI:154:MET:HG3	2.19	0.42
8:BI:427:ALA:HA	8:BI:430:LYS:HG2	2.01	0.42
9:BJ:156:ARG:HD3	9:BJ:160:PRO:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BK:52:PHE:CE2	8:BK:239:THR:HG21	2.55	0.42
8:BK:102:ASN:HB3	8:BK:105:ARG:HB2	2.01	0.42
8:BK:319:TYR:HB2	8:BK:355:ILE:HD13	2.02	0.42
8:BM:143:GLY:O	8:BM:186:ASN:ND2	2.37	0.42
19:BQ:170:LYS:HE2	19:BQ:170:LYS:HB3	1.90	0.42
14:Bc:250:LYS:HD2	14:Bc:250:LYS:HA	1.89	0.42
18:By:232:LYS:HA	18:By:232:LYS:HD3	1.84	0.42
18:Bz:238:LYS:O	18:Bz:241:GLU:HG2	2.19	0.42
29:C1:201:ARG:HH21	29:C1:204:ARG:NH2	2.17	0.42
28:C9:347:PHE:O	28:C9:351:ILE:HG13	2.19	0.42
8:CE:417:GLU:HA	8:CE:420:GLU:HG2	2.02	0.42
8:CK:102:ASN:HB3	8:CK:105:ARG:HG3	2.02	0.42
2:CU:3:ASN:OD1	2:CU:6:LYS:NZ	2.52	0.42
2:CU:104:LEU:HB3	2:CU:145:ILE:HD11	2.02	0.42
2:CV:101:CYS:O	2:CV:105:VAL:HG12	2.19	0.42
30:CW:410:HIS:CE1	8:LI:364:PRO:HB3	2.54	0.42
2:Cc:109:ASN:OD1	2:Cc:109:ASN:N	2.43	0.42
2:Cg:18:ILE:HD13	2:Cg:18:ILE:HA	1.86	0.42
2:Cj:27:ILE:HG13	2:Cj:126:LEU:HD21	2.02	0.42
32:Cp:127:LEU:HD23	32:Cp:127:LEU:HA	1.82	0.42
32:Cp:130:ASP:OD2	32:Cp:132:VAL:N	2.50	0.42
33:Cs:45:LEU:HD12	33:Cs:45:LEU:HA	1.92	0.42
33:Cu:64:LEU:HD23	33:Cu:64:LEU:HA	1.91	0.42
29:Cz:438:ARG:HH12	29:DS:262:SER:HB2	1.84	0.42
29:Cz:475:MET:HE2	29:Cz:475:MET:HB2	1.95	0.42
29:D1:399:LEU:HD23	29:D1:399:LEU:HA	1.78	0.42
29:D2:445:GLN:HE22	29:EA:284:HIS:H	1.68	0.42
29:D4:413:ASP:OD2	29:D4:413:ASP:N	2.40	0.42
29:D4:469:LYS:HE2	29:D4:469:LYS:HB2	1.78	0.42
29:D8:226:LYS:HE2	29:D8:226:LYS:HA	2.02	0.42
29:D8:255:ARG:CZ	29:EO:203:LYS:HD3	2.50	0.42
9:DF:232:THR:HG22	9:DF:270:PHE:HD1	1.85	0.42
8:DG:248:LEU:HD21	69:DH:501:GDP:H3'	2.02	0.42
9:DH:318:ARG:HA	9:DH:354:CYS:HB3	2.02	0.42
9:DJ:244:GLY:HA2	9:DJ:355:ASP:HB2	2.02	0.42
8:DK:199:ASP:HA	8:DK:266:HIS:HB2	2.01	0.42
9:DL:139:LEU:HD23	9:DL:185:ALA:HB1	2.01	0.42
9:DL:170:VAL:HG11	9:DL:377:LEU:HD11	2.02	0.42
8:DM:21:TRP:HH2	8:DM:52:PHE:HB3	1.84	0.42
8:DM:215:ARG:NH1	8:DM:299:ALA:O	2.53	0.42
9:DN:20:PHE:CG	9:DN:233:MET:HE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DN:297:LYS:HA	9:DN:297:LYS:HD3	1.78	0.42
29:DU:195:LEU:HD23	29:DU:195:LEU:HA	1.90	0.42
29:DU:446:LEU:HD13	29:EP:108:GLY:HA2	2.02	0.42
29:DW:363:GLN:OE1	29:DW:367:THR:OG1	2.37	0.42
35:Da:166:LYS:HD3	35:Da:166:LYS:HA	1.88	0.42
38:Df:126:ILE:HG22	38:Df:138:PRO:HA	2.01	0.42
42:E:800:THR:OG1	42:E:801:ILE:N	2.53	0.42
43:E3:27:TYR:CD2	44:EU:195:LYS:HE2	2.45	0.42
29:EA:403:THR:HG21	29:EP:289:ILE:HD11	2.02	0.42
8:EC:172:TYR:HB3	8:EC:203:MET:HE1	2.02	0.42
9:ED:2:ARG:HB3	9:ED:131:GLN:HG3	2.02	0.42
8:EE:93:ILE:HD12	8:EE:117:LEU:HD21	2.01	0.42
9:EH:7:LEU:HB2	9:EH:134:GLN:O	2.19	0.42
9:EH:267:MET:HA	9:EH:268:PRO:HG3	1.90	0.42
9:EH:324:LYS:HD3	8:EI:210:TYR:HB3	2.02	0.42
8:EM:102:ASN:HB3	8:EM:105:ARG:HB3	2.02	0.42
44:ET:236:THR:HG22	44:ET:237:ASP:H	1.85	0.42
44:EU:395:LEU:O	44:EU:399:GLU:HG3	2.19	0.42
44:EX:423:LEU:HD12	44:EX:423:LEU:HA	1.92	0.42
44:EZ:175:GLU:OE1	44:EZ:296:GLN:NE2	2.49	0.42
28:F2:407:PRO:HG2	28:F2:410:GLU:HG3	2.01	0.42
28:F3:378:THR:HG23	28:F6:124:THR:HG21	2.02	0.42
9:FD:181:GLU:HG2	9:FD:182:PRO:HD3	2.00	0.42
8:FE:377:MET:HE1	8:FE:379:SER:HB2	2.01	0.42
9:FF:65:LEU:HD22	9:FF:90:PHE:HE1	1.85	0.42
9:FH:280:GLN:H	9:FH:280:GLN:HG2	1.54	0.42
9:FH:406:MET:O	9:FH:409:THR:OG1	2.34	0.42
8:FK:1:MET:N	8:FK:131:GLY:HA3	2.35	0.42
9:FL:77:ARG:HA	9:FL:82:GLY:HA3	2.01	0.42
9:FN:262:ARG:NH2	9:FN:421:GLU:OE2	2.43	0.42
8:GC:287:SER:H	8:GC:290:GLU:CD	2.28	0.42
8:GG:91:GLN:HG2	8:GG:121:ARG:HH21	1.85	0.42
9:GH:344:TRP:HZ3	8:GI:401:LYS:HB2	1.84	0.42
9:GH:392:LYS:HD3	9:GH:392:LYS:HA	1.91	0.42
8:GI:71:GLU:HB2	8:GI:98:ASP:HB3	2.01	0.42
8:GI:99:ALA:HA	8:GI:105:ARG:HE	1.84	0.42
9:GJ:203:ASP:OD1	9:GJ:204:ASN:N	2.53	0.42
8:GM:422:ARG:HA	8:GM:422:ARG:HD2	1.79	0.42
9:HF:154:LYS:HA	9:HF:154:LYS:HD3	1.81	0.42
8:HG:101:ASN:OD1	8:HG:101:ASN:N	2.51	0.42
9:HH:101:TRP:CD1	9:HH:145:SER:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HI:247:ALA:HB3	8:HI:355:ILE:HB	2.01	0.42
8:HK:425:LEU:HD13	8:HK:428:LEU:HD13	2.02	0.42
9:HN:294:PHE:CE2	9:HN:333:VAL:HG21	2.55	0.42
9:HN:321:MET:HE2	9:HN:321:MET:HB3	1.93	0.42
8:HO:304:LYS:HA	8:HO:304:LYS:HD2	1.79	0.42
47:I:34:ARG:HD2	47:I:34:ARG:HA	1.75	0.42
9:ID:204:ASN:ND2	69:ID:501:GDP:O2'	2.52	0.42
9:ID:406:MET:N	9:ID:406:MET:SD	2.93	0.42
9:IH:406:MET:HE3	9:IH:406:MET:HB3	1.90	0.42
8:II:274:PRO:HG3	8:II:374:ALA:HA	2.01	0.42
9:IL:246:LEU:HD12	9:IL:246:LEU:HA	1.83	0.42
8:JE:216:ASN:HD22	8:JE:275:VAL:CG1	2.33	0.42
9:JF:253:LEU:HD23	9:JF:253:LEU:HA	1.92	0.42
8:JK:56:THR:OG1	8:JK:57:GLY:N	2.53	0.42
9:KF:347:ASN:ND2	8:KG:178:SER:O	2.52	0.42
9:KF:350:LYS:NZ	9:KF:351:THR:O	2.53	0.42
9:KL:68:LEU:HD23	9:KL:68:LEU:HA	1.83	0.42
9:KN:68:LEU:HD12	9:KN:97:ALA:HB2	2.00	0.42
8:LE:304:LYS:HD2	8:LE:304:LYS:HA	1.84	0.42
9:LH:1:MET:SD	8:LI:72:PRO:HG3	2.60	0.42
9:LN:7:LEU:HB2	9:LN:135:LEU:HD12	2.02	0.42
9:MD:427:ASP:OD2	9:MD:427:ASP:N	2.40	0.42
8:MG:220:GLU:HB3	8:MG:221:ARG:HH11	1.85	0.42
9:MH:374:ILE:HD12	9:MH:374:ILE:HA	1.90	0.42
8:MI:191:THR:O	8:MI:195:LEU:HG	2.20	0.42
9:MN:337:ASN:HB2	9:MN:340:TYR:HD2	1.84	0.42
51:N:15:PHE:O	51:N:17:LEU:N	2.52	0.42
9:N0:256:ASN:HD21	9:N0:350:LYS:HG2	1.83	0.42
8:NA:298:PRO:HB3	8:NA:306:ASP:HB2	2.01	0.42
8:NA:301:GLN:HE22	8:NA:306:ASP:HA	1.84	0.42
9:NJ:382:SER:O	9:NJ:386:THR:HG23	2.19	0.42
9:NL:186:THR:HG23	9:NL:187:LEU:N	2.33	0.42
9:NL:391:ARG:O	9:NL:391:ARG:HD3	2.20	0.42
8:OA:172:TYR:N	8:OA:204:VAL:O	2.51	0.42
8:OC:254:GLU:OE1	8:OC:254:GLU:N	2.50	0.42
9:OJ:245:GLN:O	8:OK:11:GLN:NE2	2.53	0.42
9:OL:267:MET:HG3	9:OL:301:ALA:HB3	2.01	0.42
9:PD:131:GLN:HE21	9:PD:250:LEU:HD12	1.85	0.42
9:PJ:324:LYS:HB2	8:PK:222:PRO:HD2	2.02	0.42
9:PJ:389:PHE:HE1	9:PJ:395:LEU:HD21	1.85	0.42
8:PK:88:HIS:NE2	8:QK:284:GLU:OE2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PL:44:LEU:HA	9:PL:47:ILE:HG23	2.01	0.42
9:PL:320:ARG:HD2	9:PL:320:ARG:HA	1.88	0.42
9:QB:318:ARG:HE	9:QB:358:PRO:HD3	1.85	0.42
8:QC:388:TRP:HB3	8:QC:425:LEU:HD11	2.01	0.42
9:QD:295:ASP:OD1	9:QD:296:ALA:N	2.53	0.42
9:QH:86:ARG:NH2	9:QH:89:ASN:OD1	2.49	0.42
9:QH:309:ARG:H	9:QH:372:THR:HB	1.85	0.42
8:QI:16:ILE:HA	8:QI:228:ASN:HD21	1.85	0.42
9:QJ:28:HIS:NE2	9:QJ:241:ARG:HG2	2.34	0.42
8:QK:167:LEU:HD22	8:QK:200:CYS:HB2	2.00	0.42
8:QK:276:ILE:HD13	8:QK:276:ILE:HA	1.91	0.42
8:QM:211:ASP:O	8:QM:215:ARG:HB2	2.19	0.42
8:QM:224:TYR:HA	8:QM:227:LEU:HD12	2.02	0.42
8:QM:234:ILE:HD11	8:QM:272:TYR:HB2	2.02	0.42
8:RA:214:ARG:NH1	8:RA:220:GLU:HA	2.35	0.42
9:RD:377:LEU:HD23	9:RD:377:LEU:HA	1.82	0.42
9:RF:251:ARG:HH21	8:RG:97:GLU:HG2	1.84	0.42
8:RI:7:ILE:HG22	8:RI:66:VAL:HG22	2.00	0.42
9:RJ:60:VAL:HA	9:RJ:61:PRO:HD3	1.75	0.42
8:SA:50:ASN:O	8:SA:64:ARG:NH1	2.51	0.42
8:SE:12:ALA:HA	67:SE:501:GTP:C5	2.55	0.42
8:SE:156:ARG:HD2	8:SE:156:ARG:HA	1.84	0.42
8:SE:280:LYS:O	8:SE:284:GLU:HG2	2.19	0.42
8:SG:257:THR:HA	9:SH:397:TRP:CZ2	2.55	0.42
9:SH:2:ARG:NH2	9:SH:240:LEU:O	2.53	0.42
8:SI:280:LYS:HE3	8:SI:280:LYS:HB2	1.71	0.42
8:SK:250:VAL:HG12	8:SK:254:GLU:HG2	2.01	0.42
9:SL:65:LEU:HD13	9:SL:90:PHE:HE1	1.84	0.42
8:SM:57:GLY:H	8:TM:285:GLN:HE21	1.67	0.42
8:SM:68:VAL:HA	8:SM:93:ILE:HB	2.02	0.42
8:SM:69:ASP:OD2	8:SM:70:LEU:N	2.52	0.42
8:SM:335:ILE:HD13	8:SM:335:ILE:HA	1.95	0.42
9:TB:195:ASN:HD22	9:TB:195:ASN:C	2.27	0.42
9:TB:252:LYS:HZ1	8:TC:101:ASN:N	2.18	0.42
9:TD:253:LEU:HA	9:TD:350:LYS:HZ1	1.84	0.42
8:TG:247:ALA:O	9:TH:11:GLN:NE2	2.53	0.42
8:TG:306:ASP:HB3	8:TG:309:HIS:CE1	2.54	0.42
8:TI:234:ILE:CD1	8:TI:272:TYR:HB2	2.44	0.42
9:TL:317:PHE:HB2	9:TL:353:VAL:HA	2.02	0.42
9:UD:49:VAL:HG11	9:UD:241:ARG:HB3	2.01	0.42
8:UE:255:PHE:HZ	8:UE:318:LEU:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UF:237:THR:OG1	9:UF:241:ARG:NH1	2.49	0.42
9:UF:381:ILE:HD13	9:UF:381:ILE:HA	1.91	0.42
8:UG:88:HIS:HB3	8:UG:91:GLN:HB2	2.01	0.42
9:UJ:392:LYS:HB3	9:UJ:395:LEU:HB3	2.02	0.42
9:UL:105:HIS:CD2	9:UL:150:LEU:HG	2.55	0.42
8:UM:98:ASP:OD1	8:UM:98:ASP:N	2.50	0.42
9:UN:227:HIS:HD1	9:UN:227:HIS:C	2.27	0.42
9:VB:86:ARG:HH22	9:WB:282:ARG:HB3	1.85	0.42
9:VB:274:THR:HG21	9:VB:282:ARG:NH1	2.35	0.42
9:VF:68:LEU:HD13	9:VF:108:GLU:HG3	2.01	0.42
9:VH:27:GLU:OE2	9:VH:318:ARG:NH2	2.36	0.42
9:VH:385:PHE:CZ	9:VH:408:PHE:HB3	2.51	0.42
8:VM:319:TYR:HB3	8:VM:323:VAL:HG11	2.00	0.42
9:WB:60:VAL:HG21	9:WB:86:ARG:HD2	2.00	0.42
9:WB:257:MET:HE1	9:WB:313:VAL:C	2.45	0.42
9:WB:375:GLN:HE22	9:WB:419:VAL:HG22	1.84	0.42
8:WC:119:LEU:HD11	8:WC:156:ARG:HB3	2.02	0.42
8:WC:385:ALA:HA	8:WC:388:TRP:HD1	1.85	0.42
9:WH:42:LEU:HD11	9:WH:356:ILE:HG13	2.01	0.42
8:WI:363:VAL:HG23	8:WI:366:GLY:HA3	2.02	0.42
8:WK:214:ARG:NH1	8:WK:215:ARG:HB3	2.34	0.42
56:XI:72:LYS:HB2	56:XI:72:LYS:HE2	1.81	0.42
47:Y:474:LYS:HB3	47:Y:475:PRO:HD3	2.01	0.42
57:YG:174:HIS:HA	57:YG:177:VAL:HG12	2.02	0.42
57:YK:220:ASN:OD1	57:YK:220:ASN:N	2.43	0.42
60:f:180:ALA:HB3	60:f:211:VAL:HG12	2.01	0.42
60:f:336:GLU:HG3	60:f:337:SER:H	1.83	0.42
60:f:429:THR:OG1	60:f:431:ASP:OD1	2.27	0.42
62:i:84:LEU:HD23	62:i:84:LEU:HA	1.88	0.42
62:i:203:ARG:NH2	62:i:258:GLU:OE2	2.51	0.42
65:s:75:ARG:HA	65:s:75:ARG:CZ	2.50	0.42
4:y:1386:LEU:HD11	4:y:1421:LEU:HB3	2.02	0.42
2:0C:8:SER:O	2:0C:12:VAL:HG23	2.19	0.42
2:0E:73:ILE:HD12	2:0E:73:ILE:HA	1.88	0.42
2:0g:56:HIS:HA	2:0i:10:ARG:NH2	2.34	0.42
3:1:138:CYS:SG	3:1:201:VAL:HG22	2.60	0.42
3:2:34:TYR:CE1	3:2:38:VAL:HG11	2.55	0.42
7:A1:56:ALA:HB2	9:PJ:297:LYS:NZ	2.35	0.42
7:A1:122:HIS:CD2	9:PF:291:GLN:HB2	2.55	0.42
7:A3:217:GLY:O	8:PC:123:ARG:NH1	2.53	0.42
7:A8:96:LYS:HD3	7:A8:96:LYS:HA	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A8:217:GLY:HA2	7:A8:218:PRO:HD3	1.88	0.42
8:AA:5:ILE:HG13	8:AA:132:LEU:HD11	2.02	0.42
9:AB:45:GLU:OE2	9:AB:45:GLU:HA	2.20	0.42
9:AH:242:PHE:HB3	9:AH:356:ILE:HD12	2.02	0.42
11:AT:152:LYS:HE3	9:GH:83:GLN:NE2	2.34	0.42
11:AT:161:CYS:SG	11:AT:163:GLU:N	2.92	0.42
12:AW:105:LYS:HE2	12:AW:105:LYS:HB2	1.82	0.42
13:Aa:72:GLU:HG2	13:Aa:152:LYS:HZ3	1.85	0.42
13:Aa:305:LEU:HD12	13:Aa:305:LEU:HA	1.90	0.42
13:Ab:306:LEU:HD12	13:Ab:306:LEU:HA	1.92	0.42
14:Al:24:TYR:HD2	14:Al:42:LEU:HD22	1.85	0.42
15:Ap:176:TYR:CD2	47:I:226:PRO:HB3	2.55	0.42
16:At:222:PRO:HD2	8:FK:341:ILE:HD11	2.02	0.42
9:BJ:232:THR:HG23	9:BJ:366:THR:HG23	2.02	0.42
8:BK:88:HIS:HA	8:BK:89:PRO:HD3	1.93	0.42
9:BL:151:LEU:HD12	9:BL:151:LEU:HA	1.84	0.42
9:BL:379:LYS:HE3	9:BL:379:LYS:HB2	1.77	0.42
19:BQ:373:ILE:HG13	8:ME:155:GLU:OE2	2.19	0.42
19:BR:140:LEU:HB3	19:BR:238:CYS:HB2	2.02	0.42
14:Bc:297:TYR:HB2	9:CJ:322:SER:HB3	2.02	0.42
29:C1:399:LEU:HG	29:C1:419:LEU:HB3	2.02	0.42
28:C3:81:LEU:HD12	28:C3:81:LEU:HA	1.84	0.42
28:C3:155:PHE:CD2	33:Cv:270:ARG:HG2	2.55	0.42
8:CA:77:GLU:HA	8:CA:80:THR:HG22	2.02	0.42
8:CA:329:ASN:N	8:CA:329:ASN:OD1	2.53	0.42
9:CB:31:ASP:OD1	9:CB:35:THR:N	2.38	0.42
9:CD:246:LEU:HD21	8:CE:179:THR:HG21	2.01	0.42
8:CG:136:LEU:HG	8:CG:169:PHE:HE2	1.85	0.42
9:CJ:209:ASP:HB3	9:CJ:213:ARG:HH22	1.84	0.42
8:CK:5:ILE:HA	8:CK:5:ILE:HD13	1.62	0.42
2:Cb:69:MET:O	2:Cb:73:ILE:HG12	2.20	0.42
2:Cd:129:ASP:HB3	8:QG:282:TYR:HD2	1.84	0.42
2:Cf:69:MET:O	2:Cf:73:ILE:HG12	2.20	0.42
2:Cg:34:ARG:HD2	2:Cg:39:ASP:O	2.20	0.42
32:Co:36:ARG:HG3	33:Cr:51:ASN:HD22	1.85	0.42
33:Cr:226:LYS:HE3	33:Cr:226:LYS:HB3	1.77	0.42
33:Cr:254:LEU:HD23	33:Cr:254:LEU:HA	1.92	0.42
29:D1:413:ASP:OD1	29:D1:413:ASP:N	2.46	0.42
29:D3:173:LEU:HG	29:D3:239:ILE:HG23	2.02	0.42
9:DD:285:THR:HG22	48:J:117:VAL:HA	2.02	0.42
8:DE:370:LYS:HE2	8:DE:370:LYS:HB3	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DH:306:ARG:NH1	9:DH:340:TYR:OH	2.52	0.42
8:DI:115:VAL:HG22	8:DI:119:LEU:HD23	2.01	0.42
9:DJ:309:ARG:HG3	9:DJ:426:GLN:HA	2.01	0.42
9:DL:100:ASN:HD21	9:DL:103:LYS:HG2	1.85	0.42
9:DL:189:VAL:HG21	9:DL:378:PHE:CE2	2.54	0.42
8:DM:188:ILE:HD12	8:DM:425:LEU:HG	2.02	0.42
8:DM:260:VAL:HG11	8:DM:266:HIS:HA	2.02	0.42
29:DS:203:LYS:HE2	29:DS:203:LYS:HB2	1.92	0.42
29:DV:313:MET:HE3	29:DV:313:MET:HB3	1.82	0.42
37:De:242:ASP:HB3	37:De:243:LEU:H	1.72	0.42
39:Di:64:LYS:HA	39:Di:67:GLU:HG3	2.02	0.42
43:E1:100:HIS:O	43:E1:100:HIS:ND1	2.42	0.42
43:E2:76:TRP:HA	43:E2:79:LEU:HB2	2.02	0.42
43:E2:195:ALA:N	28:F4:356:ASP:OD2	2.53	0.42
29:EA:446:LEU:HD12	29:EA:446:LEU:HA	1.89	0.42
9:EF:176:SER:OG	9:EF:177:ASP:N	2.53	0.42
9:EF:183:TYR:O	9:EF:187:LEU:HB2	2.20	0.42
9:EF:419:VAL:O	9:EF:423:GLN:HB2	2.20	0.42
9:EL:314:ALA:HB2	9:EL:350:LYS:HB3	2.00	0.42
8:EM:122:ILE:HA	8:EM:122:ILE:HD13	1.82	0.42
29:EP:471:LYS:HE3	29:EP:471:LYS:HB2	1.83	0.42
44:EV:346:LYS:HB2	44:EV:388:LEU:HD21	2.02	0.42
44:EX:350:LEU:HD23	44:EZ:240:PHE:HE1	1.85	0.42
8:FC:124:LYS:HB3	8:FC:124:LYS:HE2	1.83	0.42
8:FG:402:ARG:HG3	8:FG:405:VAL:HG11	2.01	0.42
8:FI:205:ASP:OD2	8:FI:303:VAL:HA	2.20	0.42
9:FJ:128:ASP:OD1	9:FJ:129:CYS:N	2.52	0.42
9:FJ:325:GLU:HA	9:FJ:328:GLU:OE2	2.20	0.42
8:FK:16:ILE:HD12	8:FK:231:ILE:HG21	2.00	0.42
45:G:196:LYS:HE2	45:G:196:LYS:HB2	1.83	0.42
9:GB:2:ARG:HE	9:GB:2:ARG:HB2	1.65	0.42
8:GC:138:PHE:HZ	8:GC:235:VAL:HG21	1.84	0.42
8:GC:326:LYS:NZ	9:GD:219:THR:HA	2.35	0.42
8:GE:103:TYR:HB3	8:GE:408:TYR:HE2	1.85	0.42
9:GH:5:VAL:HB	9:GH:133:PHE:CD2	2.55	0.42
9:GH:22:GLU:HA	9:GH:81:PHE:CD2	2.55	0.42
9:GH:289:LEU:O	9:GH:293:MET:HG3	2.20	0.42
9:GN:4:ILE:HD13	9:GN:4:ILE:HA	1.97	0.42
9:GN:154:LYS:HD3	9:GN:154:LYS:HA	1.89	0.42
8:HE:430:LYS:HB3	8:HE:430:LYS:HE3	1.82	0.42
9:HH:117:LEU:HD11	9:HH:154:LYS:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HJ:27:GLU:OE1	9:HJ:234:SER:OG	2.36	0.42
8:HK:233:GLN:NE2	8:HK:361:THR:O	2.39	0.42
9:HL:334:GLN:HE22	9:HL:347:ASN:HA	1.85	0.42
8:HM:286:LEU:HD23	8:HM:286:LEU:HA	1.92	0.42
9:HN:197:ASP:OD2	9:HN:197:ASP:N	2.52	0.42
47:I:475:PRO:HG3	47:I:497:GLU:OE1	2.20	0.42
9:IB:3:GLU:OE2	9:IB:48:ASN:ND2	2.52	0.42
8:IC:228:ASN:OD1	67:IC:501:GTP:N1	2.42	0.42
9:IF:278:SER:HA	9:IF:281:TYR:HD2	1.85	0.42
8:IG:33:ASP:OD2	8:IG:35:GLN:HB2	2.20	0.42
8:II:335:ILE:HA	8:II:338:LYS:NZ	2.35	0.42
8:IK:336:LYS:HE2	8:IK:336:LYS:HB2	1.78	0.42
9:IL:323:MET:HE3	9:IL:323:MET:HB3	1.94	0.42
9:IN:337:ASN:OD1	9:IN:337:ASN:N	2.43	0.42
9:JB:293:MET:HG2	9:JB:367:PHE:HB2	2.02	0.42
9:JB:403:MET:HE3	9:JB:403:MET:HB2	1.83	0.42
9:JD:325:GLU:HA	9:JD:328:GLU:HB3	2.01	0.42
9:JF:314:ALA:HB3	9:JF:368:ILE:HB	2.01	0.42
8:JI:212:ILE:HD11	8:JI:300:ASN:HA	2.01	0.42
9:JJ:255:VAL:HG22	8:JK:407:TRP:HE3	1.85	0.42
9:JL:24:ILE:HD13	9:JL:24:ILE:HA	1.93	0.42
9:JN:206:ALA:O	9:JN:210:ILE:HG23	2.20	0.42
9:KF:316:VAL:HA	9:KF:352:ALA:HB3	2.02	0.42
9:KN:135:LEU:HD23	9:KN:166:THR:HG22	2.01	0.42
9:LD:257:MET:HE3	9:LD:257:MET:HB3	1.64	0.42
9:LD:344:TRP:CG	8:LE:401:LYS:HZ3	2.38	0.42
8:LE:245:ASP:OD1	8:LE:245:ASP:N	2.53	0.42
8:LE:273:ALA:HB1	8:LE:291:ILE:HB	2.02	0.42
8:LI:346:TRP:CD1	9:LJ:391:ARG:HD3	2.55	0.42
8:LK:97:GLU:N	8:LK:97:GLU:OE1	2.53	0.42
8:LM:54:SER:OG	8:LM:55:GLU:N	2.53	0.42
48:M:71:SER:OG	48:M:72:GLU:N	2.53	0.42
8:MC:199:ASP:N	8:MC:199:ASP:OD1	2.53	0.42
9:MD:294:PHE:CE1	9:MD:367:PHE:HE1	2.37	0.42
9:MD:324:LYS:HB3	8:ME:222:PRO:HD2	2.01	0.42
9:MD:385:PHE:HZ	9:MD:408:PHE:HB3	1.84	0.42
9:MF:219:THR:O	9:MF:219:THR:OG1	2.26	0.42
9:MF:290:THR:HG21	9:MF:329:GLN:HB3	2.02	0.42
9:MJ:31:ASP:OD1	9:MJ:35:THR:OG1	2.32	0.42
9:ML:206:ALA:O	9:ML:210:ILE:HG12	2.20	0.42
8:MM:335:ILE:HD13	8:MM:335:ILE:HA	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NB:117:LEU:HD11	9:NB:154:LYS:HG2	2.01	0.42
9:ND:192:LEU:HD12	9:ND:192:LEU:HA	1.93	0.42
8:NG:21:TRP:HE1	8:NG:63:PRO:CB	2.33	0.42
9:NH:346:PRO:HG3	8:NI:394:LYS:HG2	2.02	0.42
8:NK:290:GLU:HG3	8:NK:291:ILE:HG23	2.01	0.42
9:NL:194:GLU:OE2	9:NL:195:ASN:ND2	2.52	0.42
9:O0:158:GLU:HG2	9:O0:159:TYR:CE2	2.55	0.42
8:OA:50:ASN:O	8:OA:64:ARG:NH1	2.40	0.42
9:OB:273:LEU:HD23	9:OB:273:LEU:HA	1.85	0.42
9:OD:323:MET:N	9:OD:323:MET:SD	2.93	0.42
8:OE:210:TYR:HE1	8:OE:227:LEU:HD11	1.83	0.42
9:OF:22:GLU:HG2	9:OF:81:PHE:HB2	2.02	0.42
8:OG:21:TRP:CZ3	8:OG:63:PRO:HB3	2.55	0.42
9:OH:207:LEU:HD12	9:OH:225:LEU:HD22	2.01	0.42
8:OI:184:PRO:HG3	8:OI:394:LYS:HE3	2.02	0.42
8:PE:88:HIS:HE1	8:PE:90:GLU:HB3	1.84	0.42
9:PF:116:VAL:HA	9:PF:119:VAL:HG22	2.01	0.42
9:PF:121:ARG:NH2	9:PF:158:GLU:OE1	2.40	0.42
9:PH:285:THR:HB	9:PH:287:PRO:HD2	2.01	0.42
9:PJ:42:LEU:HD12	9:PJ:42:LEU:HA	1.91	0.42
8:PK:136:LEU:HD21	8:PK:169:PHE:HE2	1.85	0.42
8:QA:151:SER:HB3	8:QA:193:THR:HG21	2.02	0.42
8:QC:216:ASN:HB3	8:QC:275:VAL:HG13	2.01	0.42
9:QD:209:ASP:OD1	9:QD:209:ASP:N	2.43	0.42
8:QE:53:PHE:HB3	8:QE:61:HIS:HB3	2.01	0.42
9:QF:5:VAL:HG22	9:QF:62:ARG:HG2	2.01	0.42
9:QJ:1:MET:HE2	9:QJ:1:MET:HA	2.01	0.42
9:QL:164:MET:HE3	9:QL:165:ASN:N	2.35	0.42
8:QM:133:GLN:O	8:QM:165:SER:OG	2.38	0.42
9:RB:27:GLU:OE1	9:RB:241:ARG:NH2	2.51	0.42
9:RF:109:GLY:O	9:RF:113:VAL:HB	2.19	0.42
9:RH:358:PRO:HB2	9:RH:361:LEU:HD21	2.02	0.42
8:RK:134:GLY:HA3	8:RK:165:SER:HB3	2.01	0.42
9:RL:219:THR:O	9:RL:219:THR:OG1	2.32	0.42
8:SE:7:ILE:HB	8:SE:137:ILE:HG12	2.02	0.42
8:SE:342:GLN:N	8:SE:342:GLN:OE1	2.53	0.42
8:SE:401:LYS:HA	8:SE:401:LYS:HD3	1.72	0.42
8:SG:254:GLU:O	8:SG:258:ASN:HB2	2.20	0.42
9:SH:293:MET:HE3	9:SH:293:MET:HB3	1.95	0.42
8:SI:430:LYS:HA	8:SI:433:GLU:OE2	2.20	0.42
9:SJ:292:GLN:HG2	9:SJ:298:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SK:33:ASP:HB3	8:SK:85:GLN:HE21	1.85	0.42
9:SL:154:LYS:HA	9:SL:154:LYS:HD2	1.78	0.42
9:TB:178:THR:O	9:TB:181:GLU:HG3	2.20	0.42
9:TB:195:ASN:O	9:TB:195:ASN:ND2	2.53	0.42
8:TC:214:ARG:HA	8:TC:214:ARG:HD2	1.91	0.42
8:TG:211:ASP:OD1	8:TG:214:ARG:NH2	2.42	0.42
9:TH:222:TYR:O	9:TH:226:ASN:ND2	2.53	0.42
9:TH:228:LEU:HD12	9:TH:228:LEU:HA	1.86	0.42
8:TI:384:ILE:HD12	8:TI:384:ILE:HA	1.86	0.42
9:TJ:250:LEU:HD12	9:TJ:250:LEU:HA	1.83	0.42
9:TJ:261:PRO:HD3	8:TK:406:HIS:CE1	2.55	0.42
8:TM:56:THR:HA	8:UM:285:GLN:HG2	2.02	0.42
8:TM:145:THR:OG1	67:TM:501:GTP:O1B	2.38	0.42
8:TM:280:LYS:HA	8:TM:280:LYS:HD2	1.80	0.42
9:UD:269:GLY:N	9:UD:367:PHE:O	2.53	0.42
9:UF:12:CYS:SG	9:UF:138:SER:OG	2.53	0.42
8:UG:172:TYR:HD1	8:UG:173:PRO:HD2	1.84	0.42
8:UK:196:GLU:HB3	8:UK:197:HIS:HD2	1.85	0.42
9:UL:286:VAL:HG22	9:UL:363:MET:HE1	2.02	0.42
9:WB:170:VAL:HG21	9:WB:377:LEU:HG	2.02	0.42
8:WC:107:HIS:ND1	8:WC:152:LEU:HD21	2.35	0.42
9:WD:101:TRP:CE2	9:WD:187:LEU:HB3	2.55	0.42
8:WE:274:PRO:HG3	8:WE:374:ALA:HA	2.01	0.42
8:WE:425:LEU:HD11	8:WE:428:LEU:HD22	2.00	0.42
9:WF:304:ASP:HA	9:WF:305:PRO:HD3	1.90	0.42
9:WH:31:ASP:CG	9:WH:33:THR:H	2.28	0.42
9:WH:163:ILE:HD13	9:WH:163:ILE:HA	1.89	0.42
9:WH:323:MET:HE3	9:WH:353:VAL:HG21	2.02	0.42
8:WI:165:SER:OG	8:WI:256:GLN:OE1	2.38	0.42
8:WK:188:ILE:HD12	8:WK:421:ALA:HB3	2.02	0.42
56:XM:91:VAL:HG12	56:XM:154:VAL:HG22	2.02	0.42
57:YH:154:LYS:O	57:YH:158:ASN:HB2	2.20	0.42
57:YK:39:SER:HB2	57:YK:53:VAL:HG23	2.02	0.42
59:b:348:ARG:O	59:b:351:GLU:HG2	2.18	0.42
59:d:403:LYS:HE3	59:d:403:LYS:HB3	1.77	0.42
60:f:17:LEU:HD12	60:f:17:LEU:HA	1.82	0.42
60:f:360:ARG:HH21	60:f:372:ARG:HH21	1.67	0.42
60:g:109:ARG:HD3	60:g:109:ARG:HA	1.94	0.42
60:g:357:LYS:NZ	60:g:377:ASN:H	2.18	0.42
60:g:502:ILE:HG23	60:g:532:TRP:CZ3	2.55	0.42
61:h:27:ARG:O	61:h:31:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:n:166:HIS:O	63:n:172:MET:HE2	2.19	0.42
66:u:347:ARG:HH12	66:u:351:LEU:HD12	1.85	0.42
2:0g:68:LEU:HD12	2:0g:68:LEU:HA	1.89	0.42
2:0g:111:LEU:HD13	2:0g:138:VAL:HA	2.00	0.42
3:2:133:HIS:O	3:2:135:ASP:N	2.52	0.42
4:3:1453:ALA:O	4:3:1457:LYS:HG3	2.19	0.42
7:A6:228:MET:HE2	8:RM:95:GLY:HA2	2.01	0.42
7:A7:70:TYR:CE1	8:RI:119:LEU:HB3	2.55	0.42
7:A7:111:SER:OG	8:RG:113:GLU:OE2	2.36	0.42
9:AF:174:LYS:HD3	9:AF:174:LYS:HA	1.75	0.42
9:AL:245:GLN:OE1	8:AM:15:GLN:NE2	2.53	0.42
10:AS:100:PRO:O	10:AS:104:LYS:NZ	2.53	0.42
11:AU:336:ARG:HA	8:FM:58:ALA:HB1	2.01	0.42
12:AV:122:LYS:HB3	12:AV:222:PHE:HE2	1.85	0.42
13:Ab:481:LYS:HE2	13:Ab:481:LYS:HB2	1.92	0.42
13:Ab:574:ASN:OD1	29:DU:383:ARG:NH2	2.49	0.42
7:Au:233:ALA:HA	7:Au:234:PRO:HD3	1.91	0.42
8:BC:76:ASP:O	8:BC:80:THR:OG1	2.31	0.42
8:BC:288:VAL:O	8:BC:292:THR:OG1	2.27	0.42
8:BE:266:HIS:C	8:BE:267:PHE:HD1	2.27	0.42
8:BG:79:ARG:NH2	8:BG:94:THR:OG1	2.49	0.42
8:BI:88:HIS:HA	8:BI:89:PRO:HD3	1.90	0.42
8:BI:352:LYS:HA	9:BJ:177:ASP:O	2.20	0.42
9:BJ:252:LYS:HG3	8:BK:100:ALA:HA	2.01	0.42
8:BK:273:ALA:HB1	8:BK:291:ILE:HB	2.02	0.42
8:BK:385:ALA:HA	8:BK:388:TRP:HD1	1.84	0.42
22:BW:188:PRO:O	9:MF:77:ARG:NH2	2.53	0.42
22:BX:34:GLU:O	9:JN:276:ARG:NH1	2.51	0.42
14:Bb:235:MET:HE3	14:Bb:235:MET:HB2	1.86	0.42
14:Bb:266:LEU:HD23	14:Bb:266:LEU:HA	1.92	0.42
23:Bf:97:ASN:HB3	9:HB:306:ARG:HH12	1.85	0.42
26:Bu:217:LYS:NZ	26:Bu:218:GLU:OE2	2.52	0.42
29:C1:366:LYS:HG2	29:DP:113:ARG:HD2	2.01	0.42
8:CC:225:THR:HG21	38:Dh:24:ASP:OD1	2.20	0.42
8:CG:109:THR:HG22	8:CG:110:ILE:HG23	2.02	0.42
8:CG:271:THR:OG1	8:CG:301:GLN:OE1	2.38	0.42
9:CH:183:TYR:O	9:CH:187:LEU:HB2	2.20	0.42
9:CH:229:VAL:O	9:CH:233:MET:HG3	2.20	0.42
9:CH:238:THR:HG21	9:CH:318:ARG:HD2	2.02	0.42
8:CI:262:TYR:HD2	8:CI:265:ILE:HD12	1.85	0.42
67:CJ:502:GTP:N2	8:CK:206:ASN:OD1	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:10:ARG:HH12	2:Cc:56:HIS:CG	2.38	0.42
2:CX:19:PHE:HE1	2:CX:66:ILE:HG13	1.85	0.42
2:Cb:30:LEU:O	2:Cb:34:ARG:HG3	2.20	0.42
2:Cd:22:GLN:OE1	2:Cd:25:THR:HG22	2.20	0.42
2:Cd:126:LEU:HD21	2:Cd:135:TYR:HB2	2.00	0.42
2:Ci:111:LEU:HD21	2:Ci:141:LEU:HD22	2.02	0.42
32:Cn:192:ASN:OD1	32:Cn:192:ASN:N	2.53	0.42
32:Co:253:LEU:HD23	32:Co:253:LEU:HA	1.84	0.42
33:Cq:88:GLU:OE2	33:Cq:233:MET:HA	2.20	0.42
29:D1:148:ARG:O	29:D1:152:ILE:HG23	2.20	0.42
29:D2:234:LYS:O	29:D2:237:GLN:HG3	2.20	0.42
29:D5:402:ARG:HB3	29:D5:405:ARG:HH21	1.84	0.42
29:D8:202:GLU:OE2	29:EO:255:ARG:NH1	2.53	0.42
9:DB:43:GLN:H	9:DB:43:GLN:HG3	1.72	0.42
9:DB:309:ARG:HB3	9:DB:342:VAL:HG23	2.02	0.42
9:DB:358:PRO:HB2	9:DB:361:LEU:HD13	2.02	0.42
8:DE:192:HIS:ND1	8:DE:424:ASP:OD2	2.46	0.42
9:DF:318:ARG:HB3	9:DF:357:PRO:HA	2.02	0.42
9:DH:410:GLU:O	9:DH:413:SER:OG	2.28	0.42
9:DJ:24:ILE:HD13	9:DJ:24:ILE:HA	1.87	0.42
9:DJ:258:VAL:HG12	9:DJ:263:LEU:O	2.20	0.42
9:DL:337:ASN:HD22	9:DL:337:ASN:C	2.27	0.42
9:DN:52:ASN:HB3	9:DN:62:ARG:NH2	2.26	0.42
9:DN:65:LEU:HD22	9:DN:90:PHE:HE1	1.85	0.42
9:DN:139:LEU:HD22	9:DN:168:SER:HB3	2.00	0.42
29:DT:203:LYS:HE2	29:DT:203:LYS:HB2	1.94	0.42
29:DW:167:LEU:HD23	29:DW:167:LEU:HA	1.91	0.42
29:DW:173:LEU:HG	29:DW:239:ILE:HG23	2.01	0.42
29:DW:470:GLU:O	29:DW:474:ALA:CB	2.68	0.42
8:EC:226:ASN:O	8:EC:230:LEU:HD23	2.20	0.42
8:EC:229:ARG:HH22	8:EC:366:GLY:HA2	1.85	0.42
8:EC:406:HIS:HA	8:EC:409:VAL:HG12	2.02	0.42
8:EE:243:ARG:H	8:EE:243:ARG:HG2	1.70	0.42
9:EN:6:HIS:NE2	9:EN:8:GLN:OE1	2.52	0.42
29:EO:482:THR:HA	29:EO:485:MET:HE2	2.01	0.42
44:EY:164:HIS:HD2	28:F3:470:GLN:HB3	1.84	0.42
44:EZ:191:LYS:NZ	44:EZ:191:LYS:HB3	2.35	0.42
9:FB:8:GLN:HE21	9:FB:8:GLN:HB2	1.69	0.42
9:FB:181:GLU:HG3	9:FB:182:PRO:HD3	2.02	0.42
9:FB:290:THR:HG21	9:FB:329:GLN:HG3	2.02	0.42
9:FD:117:LEU:HA	9:FD:120:VAL:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FE:69:ASP:OD1	8:FE:70:LEU:N	2.53	0.42
8:FI:167:LEU:HD22	8:FI:252:LEU:HD13	2.01	0.42
8:FI:182:VAL:HG22	8:FI:185:TYR:HB2	2.01	0.42
8:FK:90:GLU:HG2	8:FK:121:ARG:NH1	2.35	0.42
45:G:278:ILE:H	9:HL:320:ARG:NH2	2.17	0.42
45:G:345:LEU:HG	9:HN:78:SER:HB2	2.01	0.42
8:GC:90:GLU:HB3	8:GC:121:ARG:HH21	1.85	0.42
9:GD:22:GLU:HG2	9:GD:81:PHE:HB2	2.02	0.42
9:GF:321:MET:HE1	9:GF:363:MET:HB2	2.02	0.42
9:GH:215:LEU:HD21	9:GH:273:LEU:HD22	2.00	0.42
8:GK:212:ILE:O	8:GK:216:ASN:HB2	2.19	0.42
8:GM:118:VAL:HG11	8:GM:153:LEU:HD11	2.02	0.42
9:GN:67:ASP:OD2	9:GN:72:THR:OG1	2.26	0.42
9:HD:395:LEU:HD12	9:HD:395:LEU:HA	1.89	0.42
9:HJ:107:THR:OG1	9:HJ:401:GLU:OE2	2.31	0.42
8:HM:96:LYS:HD2	8:HM:96:LYS:HA	1.75	0.42
8:HM:335:ILE:HD13	8:HM:335:ILE:HA	1.87	0.42
8:HM:430:LYS:HD3	8:HM:430:LYS:HA	1.82	0.42
9:HN:31:ASP:OD2	9:HN:32:PRO:HD2	2.19	0.42
9:HN:151:LEU:HA	9:HN:151:LEU:HD12	1.86	0.42
9:HN:348:ASN:OD1	9:HN:348:ASN:N	2.53	0.42
9:IB:139:LEU:HD13	9:IB:168:SER:HB2	2.01	0.42
9:IB:363:MET:HE3	9:IB:363:MET:HB3	1.90	0.42
8:II:265:ILE:HG21	8:II:265:ILE:HD13	1.88	0.42
9:IJ:2:ARG:HB3	9:IJ:240:LEU:HD23	2.02	0.42
8:IK:190:THR:O	8:IK:194:THR:OG1	2.22	0.42
8:IK:288:VAL:HG13	8:IK:319:TYR:HE2	1.84	0.42
9:JD:173:PRO:HG2	9:JD:205:GLU:OE2	2.20	0.42
8:JI:287:SER:HA	8:JI:373:ARG:HD2	2.02	0.42
8:JM:200:CYS:HA	8:JM:266:HIS:HB2	2.01	0.42
9:KB:256:ASN:HD21	8:KC:101:ASN:HD22	1.68	0.42
8:KC:202:PHE:HD1	8:KC:268:PRO:HG2	1.85	0.42
9:KD:314:ALA:HB3	9:KD:368:ILE:HB	2.02	0.42
8:KG:52:PHE:HZ	8:KG:239:THR:HG21	1.85	0.42
8:KG:186:ASN:O	8:KG:190:THR:HG22	2.20	0.42
8:KG:408:TYR:HB3	8:KG:413:MET:HE3	2.02	0.42
9:KL:170:VAL:HG21	9:KL:377:LEU:HD21	2.01	0.42
8:KM:345:ASP:OD1	8:KM:345:ASP:N	2.50	0.42
8:LE:230:LEU:HD11	8:LE:368:LEU:HD21	2.02	0.42
9:LH:260:PHE:HB2	9:LH:263:LEU:HD13	2.02	0.42
9:LJ:121:ARG:NH2	9:LJ:158:GLU:OE1	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LL:191:GLN:O	9:LL:195:ASN:HB2	2.20	0.42
9:MB:344:TRP:CD1	9:MB:344:TRP:H	2.38	0.42
9:MF:344:TRP:H	9:MF:344:TRP:CD1	2.38	0.42
9:ML:372:THR:HG22	9:ML:422:TYR:HD1	1.85	0.42
8:MM:216:ASN:O	8:MM:280:LYS:NZ	2.53	0.42
9:MN:36:TYR:HE2	9:MN:44:LEU:HB2	1.84	0.42
9:MN:337:ASN:HB2	9:MN:340:TYR:CD2	2.55	0.42
8:NA:88:HIS:HB3	8:NA:91:GLN:OE1	2.20	0.42
9:NB:287:PRO:HA	9:NB:290:THR:HG22	2.01	0.42
8:NC:122:ILE:HD13	8:NC:122:ILE:HG21	1.89	0.42
8:NC:236:SER:OG	8:NC:243:ARG:NH2	2.53	0.42
8:NI:223:THR:OG1	8:NI:224:TYR:N	2.53	0.42
8:NK:71:GLU:HG2	8:NK:98:ASP:HB3	2.01	0.42
8:NK:313:MET:HB2	8:NK:380:ASN:HD22	1.85	0.42
9:NL:298:ASN:O	9:NL:299:MET:HE2	2.20	0.42
8:OA:136:LEU:HD23	8:OA:167:LEU:HB2	2.02	0.42
8:OC:16:ILE:HA	8:OC:228:ASN:HB3	2.01	0.42
9:OD:3:GLU:HG2	9:OD:62:ARG:NH2	2.35	0.42
9:OF:103:LYS:HE2	9:OF:103:LYS:HB3	1.85	0.42
8:OI:224:TYR:HA	8:OI:227:LEU:HB2	2.02	0.42
9:OJ:3:GLU:HA	9:OJ:49:VAL:HA	2.02	0.42
9:OJ:323:MET:HG3	8:OK:224:TYR:CE1	2.54	0.42
9:OL:106:TYR:CE2	9:OL:403:MET:HE2	2.55	0.42
52:P:99:ILE:HD11	8:UG:18:ASN:HB3	2.02	0.42
9:PB:322:SER:O	9:PB:322:SER:OG	2.37	0.42
9:PB:382:SER:O	9:PB:386:THR:HG23	2.19	0.42
8:PC:336:LYS:NZ	8:PC:348:PRO:O	2.53	0.42
9:PD:239:CYS:HB2	9:PD:248:ALA:H	1.85	0.42
8:PE:51:THR:HG21	8:PE:243:ARG:HG2	2.02	0.42
8:PE:72:PRO:O	8:PE:76:ASP:HB2	2.20	0.42
9:PH:183:TYR:CE1	9:PH:388:MET:HE3	2.55	0.42
9:QB:49:VAL:HG11	9:QB:241:ARG:HG3	2.01	0.42
9:QB:139:LEU:HD12	9:QB:170:VAL:HG12	2.02	0.42
9:QB:147:MET:HB3	9:QB:147:MET:HE3	1.82	0.42
8:QC:153:LEU:HD23	8:QC:153:LEU:HA	1.85	0.42
9:QD:68:LEU:HD12	9:QD:143:THR:HB	2.02	0.42
9:QD:311:LEU:HB3	9:QD:370:ASN:HB2	2.02	0.42
8:QG:155:GLU:OE2	8:QG:193:THR:OG1	2.31	0.42
8:QI:209:ILE:HD12	8:QI:227:LEU:HB3	2.02	0.42
9:QJ:225:LEU:O	9:QJ:229:VAL:HG13	2.19	0.42
9:QJ:337:ASN:HB2	9:QJ:340:TYR:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QK:252:LEU:HD23	8:QK:255:PHE:HE2	1.84	0.42
8:QK:377:MET:SD	8:QK:377:MET:N	2.89	0.42
9:QL:68:LEU:HD12	9:QL:97:ALA:HB2	2.02	0.42
54:R:189:GLN:O	54:R:193:VAL:HG13	2.20	0.42
9:RD:122:LYS:HD2	9:SD:291:GLN:HE22	1.84	0.42
8:RE:85:GLN:O	8:SE:283:HIS:HE1	2.03	0.42
8:RE:151:SER:HB2	8:RE:193:THR:HG21	2.01	0.42
9:RH:20:PHE:HA	9:RH:230:SER:OG	2.19	0.42
8:RI:234:ILE:HD11	8:RI:272:TYR:HB2	2.01	0.42
9:RJ:178:THR:HB	9:RJ:181:GLU:HB3	2.01	0.42
9:RJ:377:LEU:HD13	9:RJ:377:LEU:HA	1.93	0.42
8:RK:70:LEU:HB2	8:RK:145:THR:HG21	2.02	0.42
9:RL:156:ARG:HH22	9:RL:197:ASP:CG	2.28	0.42
8:SA:402:ARG:HD3	8:SA:402:ARG:HA	1.77	0.42
9:SD:63:ALA:O	9:SD:89:ASN:ND2	2.53	0.42
9:SD:246:LEU:HA	9:SD:246:LEU:HD12	1.86	0.42
9:SF:404:ASP:OD1	9:SF:406:MET:HG3	2.19	0.42
8:SG:79:ARG:HG3	8:SG:92:LEU:HD12	2.00	0.42
8:SM:3:GLU:HA	8:SM:51:THR:HA	2.02	0.42
8:TG:315:CYS:SG	8:TG:316:CYS:N	2.93	0.42
9:TH:246:LEU:HD13	67:TI:501:GTP:C8	2.54	0.42
8:TK:60:LYS:HB2	8:TK:60:LYS:HE3	1.70	0.42
8:TK:273:ALA:HB3	8:TK:375:VAL:HG13	2.02	0.42
8:TK:320:ARG:HH12	8:TK:359:PRO:C	2.28	0.42
8:TK:415:GLU:H	8:TK:415:GLU:CD	2.28	0.42
8:UC:88:HIS:NE2	8:UC:90:GLU:HB3	2.35	0.42
8:UE:169:PHE:CE1	8:UE:235:VAL:HG22	2.54	0.42
9:UJ:257:MET:HA	9:UJ:257:MET:HE2	2.02	0.42
9:UJ:299:MET:HE3	9:UJ:299:MET:HB2	1.56	0.42
9:UJ:380:ARG:H	9:UJ:380:ARG:HG2	1.69	0.42
8:UK:246:GLY:HA2	8:UK:357:TYR:CD1	2.55	0.42
9:UN:117:LEU:HA	9:UN:117:LEU:HD12	1.93	0.42
9:VB:101:TRP:CE3	9:VB:187:LEU:HD23	2.55	0.42
9:VD:280:GLN:HG2	9:VD:281:TYR:CD1	2.54	0.42
9:VH:257:MET:HB3	9:VH:266:PHE:CZ	2.54	0.42
9:VH:324:LYS:HG2	8:VI:222:PRO:HD2	2.01	0.42
8:VI:124:LYS:O	8:VI:128:LEU:HD12	2.19	0.42
9:VJ:46:ARG:HA	9:VJ:46:ARG:HD3	1.59	0.42
9:VJ:181:GLU:HG3	9:VJ:182:PRO:HD3	2.02	0.42
8:VK:262:TYR:OH	9:VL:391:ARG:O	2.36	0.42
8:WC:189:LEU:HD23	8:WC:417:GLU:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WD:74:ASP:O	9:WD:78:SER:OG	2.32	0.42
9:WF:404:ASP:OD1	9:WF:405:GLU:N	2.53	0.42
9:WJ:12:CYS:O	9:WJ:16:ILE:HB	2.20	0.42
9:WL:28:HIS:NE2	9:WL:241:ARG:HD2	2.35	0.42
9:WL:202:ILE:HG21	9:WL:229:VAL:HG22	2.02	0.42
9:WL:257:MET:HE2	9:WL:257:MET:HA	2.02	0.42
56:XI:41:ASP:N	56:XI:41:ASP:OD1	2.52	0.42
57:YH:172:LEU:HD12	57:YH:172:LEU:HA	1.93	0.42
59:a:160:LEU:HD13	60:e:584:HIS:HE2	1.85	0.42
60:e:460:LEU:HD21	60:e:496:LEU:HB3	2.02	0.42
60:f:280:LYS:HD3	60:f:280:LYS:HA	1.83	0.42
60:f:454:GLN:N	60:f:454:GLN:OE1	2.53	0.42
60:f:563:PHE:CD2	60:f:575:TRP:HB2	2.55	0.42
60:g:385:PHE:CE1	60:g:392:ILE:HD12	2.55	0.42
63:n:55:MET:SD	63:n:55:MET:N	2.93	0.42
63:n:70:VAL:HG12	63:n:72:LEU:HD12	2.01	0.42
46:o:258:LYS:HB3	46:o:258:LYS:HE2	1.74	0.42
58:p:38:ARG:HA	58:p:38:ARG:HD2	1.90	0.42
3:1:243:LEU:HD23	3:1:247:LEU:HD11	2.01	0.41
4:3:1437:ARG:HH12	9:KH:262:ARG:NE	2.18	0.41
6:A0:223:LYS:HE2	6:A0:223:LYS:HB2	1.93	0.41
7:A1:124:ILE:HG22	9:PF:294:PHE:HB3	2.02	0.41
7:A5:140:ALA:HB3	8:RA:341:ILE:HB	2.02	0.41
7:A8:182:PRO:HA	8:SI:123:ARG:NH2	2.32	0.41
7:A9:45:LYS:HZ1	8:TE:214:ARG:NH1	2.18	0.41
8:AA:43:GLY:H	13:Ad:64:VAL:HG21	1.85	0.41
8:AA:142:GLY:O	8:AA:186:ASN:ND2	2.45	0.41
8:AC:188:ILE:HG13	8:AC:395:LEU:HD22	2.01	0.41
9:AF:323:MET:HE3	9:AF:323:MET:HB3	1.81	0.41
8:AG:136:LEU:HD22	8:AG:169:PHE:HE2	1.84	0.41
8:AI:104:ALA:HB2	8:AI:413:MET:HE3	2.02	0.41
9:AJ:27:GLU:OE1	9:AJ:241:ARG:NH2	2.48	0.41
8:AK:76:ASP:HB3	14:Bc:222:TYR:HE1	1.84	0.41
10:AP:35:HIS:NE2	9:KH:383:GLU:OE1	2.46	0.41
11:AT:287:ALA:HB1	8:GC:370:LYS:HZ1	1.84	0.41
12:AW:290:LYS:NZ	9:IL:38:GLY:O	2.53	0.41
13:Aa:99:VAL:HB	13:Aa:122:ILE:HD13	2.02	0.41
13:Ab:485:SER:HB3	13:Ab:487:TYR:CE2	2.55	0.41
13:Ac:461:TYR:HD1	9:FF:276:ARG:HD2	1.85	0.41
13:Ac:615:LYS:HA	13:Ac:615:LYS:HD3	1.89	0.41
14:Am:24:TYR:CG	14:Am:25:PRO:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ay:83:LEU:HD23	7:Ay:83:LEU:HA	1.83	0.41
5:B:161:ARG:HG3	9:WH:276:ARG:HB3	2.01	0.41
14:B7:39:THR:HA	14:B7:42:LEU:HB2	2.01	0.41
14:B7:219:ILE:HG22	14:B7:220:SER:H	1.85	0.41
8:BA:156:ARG:HA	8:BA:159:VAL:HG12	2.01	0.41
8:BA:419:SER:O	8:BA:422:ARG:N	2.53	0.41
8:BK:328:VAL:HG21	8:BK:355:ILE:HD11	2.02	0.41
19:BO:114:HIS:HB3	19:BR:378:ILE:HD11	2.01	0.41
19:BO:223:LEU:HD12	19:BO:223:LEU:HA	1.90	0.41
19:BO:309:ASP:OD2	19:BO:309:ASP:N	2.52	0.41
19:BQ:466:ARG:HG3	9:MD:401:GLU:HA	2.02	0.41
14:Ba:185:ASP:HB3	28:C4:88:THR:HA	2.02	0.41
14:Bc:88:HIS:HB3	33:Cv:73:ARG:HH22	1.84	0.41
27:Br:68:ASP:O	27:Br:71:GLU:HG3	2.20	0.41
27:Bs:214:LEU:HD21	45:G:265:GLU:OE1	2.20	0.41
27:Bs:294:LYS:HD3	27:Bs:297:LEU:HD21	2.01	0.41
27:Bs:352:LYS:HE3	8:GG:59:GLY:N	2.34	0.41
27:Bs:456:HIS:NE2	31:Cl:273:PRO:O	2.53	0.41
28:C2:236:TYR:CE1	28:C2:324:ASP:HB3	2.55	0.41
28:C2:367:LYS:HG3	28:C4:114:ARG:CZ	2.50	0.41
28:C3:81:LEU:HA	28:C3:82:PRO:HD3	1.92	0.41
28:C3:350:ARG:HD2	28:C3:350:ARG:HA	1.86	0.41
28:C3:399:ARG:HB3	28:C3:420:LEU:HD11	2.00	0.41
28:C4:170:GLU:OE1	28:C4:318:SER:OG	2.30	0.41
28:C5:467:TYR:CE1	32:Co:384:TYR:CD2	3.07	0.41
8:CA:17:GLY:O	8:CA:21:TRP:HB2	2.20	0.41
8:CC:261:PRO:O	9:CD:396:HIS:HE1	2.03	0.41
8:CC:265:ILE:HG13	8:CC:432:TYR:CE1	2.55	0.41
8:CE:154:MET:HE2	8:CE:154:MET:HB3	1.90	0.41
9:CH:379:LYS:HD3	9:CH:380:ARG:N	2.35	0.41
8:CK:29:GLY:H	8:CK:36:MET:HE1	1.85	0.41
8:CM:60:LYS:HZ3	8:DM:283:HIS:CG	2.38	0.41
8:CM:274:PRO:HG3	8:CM:374:ALA:HA	2.01	0.41
17:CQ:12:ILE:HG23	17:CQ:16:SER:HB3	2.02	0.41
17:CR:41:LYS:HE3	17:CR:41:LYS:HB3	1.82	0.41
2:Cc:24:PHE:HA	2:Cc:27:ILE:HG22	2.02	0.41
2:Cc:46:SER:HB2	2:Cc:108:SER:HA	2.02	0.41
2:Cc:98:LEU:HG	2:Cc:152:TRP:NE1	2.34	0.41
32:Co:397:ILE:HD13	32:Co:397:ILE:HA	1.93	0.41
33:Cr:345:LEU:HD12	33:Cr:345:LEU:HA	1.83	0.41
33:Cu:298:ARG:HH12	28:F3:162:HIS:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Cx:19:THR:HG21	38:Df:142:PRO:HB3	2.02	0.41
29:D2:127:MET:HE3	29:D2:127:MET:HB2	1.87	0.41
29:D3:137:MET:HE2	29:D3:137:MET:HB2	1.97	0.41
29:D5:169:GLU:OE1	29:D5:317:SER:HB2	2.20	0.41
9:DB:235:GLY:HA2	9:DB:318:ARG:HH21	1.85	0.41
9:DB:313:VAL:O	9:DB:349:VAL:HA	2.20	0.41
8:DC:296:PHE:CE1	8:DC:377:MET:HE1	2.54	0.41
9:DF:268:PRO:HG2	9:DF:300:MET:HE2	2.02	0.41
9:DH:282:ARG:HA	9:DH:282:ARG:HD3	1.82	0.41
8:DI:122:ILE:HD13	8:DI:122:ILE:HA	1.90	0.41
9:DJ:2:ARG:HB3	9:DJ:131:GLN:HB2	2.02	0.41
8:DK:150:ALA:O	8:DK:154:MET:HG2	2.20	0.41
8:DM:265:ILE:HG23	8:DM:432:TYR:CZ	2.55	0.41
9:DN:6:HIS:HD2	9:DN:7:LEU:N	2.17	0.41
9:DN:164:MET:HE2	9:DN:164:MET:HB2	1.95	0.41
29:DR:442:ASP:OD2	44:EX:379:SER:HB2	2.20	0.41
29:DV:463:ASN:O	29:DV:467:ILE:HG13	2.20	0.41
35:DY:54:MET:CG	8:IC:50:ASN:HD22	2.32	0.41
37:De:243:LEU:HD22	37:De:247:HIS:HE1	1.85	0.41
38:Df:73:ARG:HD3	38:Df:73:ARG:HA	1.70	0.41
39:Dk:122:THR:HG22	39:Dk:126:HIS:CE1	2.54	0.41
40:Dm:118:MET:HB3	40:Dm:118:MET:HE3	1.78	0.41
42:E:762:PRO:HG2	42:E:764:TYR:CE1	2.55	0.41
43:E3:163:ARG:HA	43:E3:163:ARG:HD3	1.77	0.41
29:EA:211:HIS:HB2	29:EP:92:ARG:HB3	2.01	0.41
9:EB:8:GLN:NE2	9:EB:14:ASN:HA	2.35	0.41
9:EB:202:ILE:HD11	9:EB:268:PRO:HG2	2.02	0.41
8:EC:15:GLN:HA	8:EC:18:ASN:ND2	2.35	0.41
8:EC:311:LYS:O	8:EC:382:THR:OG1	2.28	0.41
8:EC:320:ARG:HH21	8:EC:360:PRO:HA	1.85	0.41
9:EH:338:SER:O	9:EH:338:SER:OG	2.35	0.41
8:EI:208:ALA:HB2	8:EI:304:LYS:HG2	2.02	0.41
8:EM:408:TYR:HB3	8:EM:413:MET:HE2	2.02	0.41
9:EN:21:TRP:HA	9:EN:24:ILE:HG22	2.01	0.41
9:EN:152:ILE:HA	9:EN:155:ILE:HG22	2.02	0.41
44:EY:124:LEU:O	44:EY:128:THR:OG1	2.32	0.41
8:FG:118:VAL:O	8:FG:122:ILE:HB	2.20	0.41
8:FG:352:LYS:HG3	9:FH:177:ASP:O	2.20	0.41
8:FM:259:LEU:HD21	8:FM:316:CYS:HB2	2.01	0.41
9:FN:173:PRO:HD2	9:FN:205:GLU:OE1	2.19	0.41
9:GB:118:ASP:OD1	9:GB:121:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GC:255:PHE:CZ	8:GC:318:LEU:HD11	2.55	0.41
8:GE:338:LYS:H	8:GE:338:LYS:HG2	1.59	0.41
9:GF:135:LEU:HD12	9:GF:135:LEU:HA	1.88	0.41
8:GI:71:GLU:HG3	8:GI:73:THR:H	1.85	0.41
9:GJ:127:CYS:SG	9:GJ:130:LEU:HD13	2.60	0.41
8:GK:186:ASN:OD1	8:GK:186:ASN:N	2.53	0.41
8:GM:317:MET:HB3	8:GM:319:TYR:CE1	2.55	0.41
8:GM:384:ILE:HD12	8:GM:384:ILE:HA	1.86	0.41
8:HC:157:LEU:HD12	8:HC:157:LEU:HA	1.92	0.41
8:HE:254:GLU:OE2	8:HE:254:GLU:N	2.51	0.41
9:HH:260:PHE:CE1	8:HI:403:ALA:HA	2.45	0.41
9:HH:330:MET:HB3	9:HH:349:VAL:HG21	2.01	0.41
9:HL:221:THR:OG1	9:HL:222:TYR:N	2.52	0.41
9:ID:208:TYR:CE1	9:ID:225:LEU:HD11	2.55	0.41
9:ID:216:LYS:HA	9:ID:216:LYS:HD3	1.85	0.41
9:IF:390:ARG:H	9:IF:390:ARG:HG3	1.66	0.41
8:IK:195:LEU:HD23	8:IK:195:LEU:HA	1.92	0.41
9:JB:68:LEU:HD13	9:JB:143:THR:HG23	2.01	0.41
9:JD:31:ASP:OD2	9:JD:35:THR:OG1	2.33	0.41
9:JD:49:VAL:O	9:JD:62:ARG:NH1	2.53	0.41
9:JH:274:THR:OG1	9:JH:279:GLN:HB3	2.20	0.41
9:JL:68:LEU:HD23	9:JL:68:LEU:HA	1.84	0.41
9:JL:316:VAL:HA	9:JL:352:ALA:HB3	2.01	0.41
8:KG:183:GLU:HG2	8:KG:184:PRO:HD3	2.01	0.41
9:KH:31:ASP:OD1	9:KH:35:THR:N	2.53	0.41
9:KH:172:SER:OG	9:KH:205:GLU:OE1	2.38	0.41
9:KH:230:SER:HA	9:KH:233:MET:HE3	2.02	0.41
9:KJ:52:ASN:HB2	9:KJ:60:VAL:HG23	2.02	0.41
9:KL:178:THR:HB	9:KL:181:GLU:HG3	2.02	0.41
9:KL:374:ILE:HD12	9:KL:374:ILE:HA	1.87	0.41
8:LC:273:ALA:HB2	8:LC:295:CYS:SG	2.60	0.41
9:LL:77:ARG:NH2	47:Y:43:PRO:HD3	2.35	0.41
8:MC:116:ASP:OD1	8:MC:117:LEU:N	2.53	0.41
9:MD:211:CYS:O	9:MD:217:LEU:N	2.51	0.41
9:MD:325:GLU:OE1	8:ME:221:ARG:HD3	2.19	0.41
9:MF:67:ASP:OD2	9:MF:68:LEU:N	2.53	0.41
8:MI:154:MET:HE1	8:MI:198:SER:HB2	2.02	0.41
8:MI:344:VAL:HG13	8:MI:346:TRP:H	1.85	0.41
8:MI:377:MET:HE3	8:MI:379:SER:HB3	2.02	0.41
9:N0:113:VAL:HA	9:N0:116:VAL:HG22	2.02	0.41
9:N0:246:LEU:HD21	8:NA:179:THR:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NC:70:LEU:HB2	8:NC:99:ALA:HB2	2.02	0.41
8:NC:254:GLU:HB3	9:ND:98:GLY:HA2	2.02	0.41
9:ND:251:ARG:HD2	9:ND:251:ARG:HA	1.91	0.41
9:NF:314:ALA:HB3	9:NF:368:ILE:HB	2.02	0.41
8:NG:215:ARG:HG3	8:NG:216:ASN:OD1	2.20	0.41
9:NH:103:LYS:HE3	9:NH:103:LYS:HB2	1.92	0.41
8:OC:9:VAL:HG21	8:OC:150:ALA:HB2	2.02	0.41
8:OC:75:VAL:HG13	8:OC:92:LEU:HB3	2.02	0.41
9:OD:252:LYS:HD2	8:OE:98:ASP:OD2	2.20	0.41
8:OI:422:ARG:HD2	8:OI:422:ARG:HA	1.85	0.41
9:OJ:185:ALA:CB	9:OJ:381:ILE:HD11	2.49	0.41
8:OK:155:GLU:HA	8:OK:197:HIS:CE1	2.55	0.41
9:OL:323:MET:HE3	9:OL:323:MET:HB3	1.85	0.41
9:PB:178:THR:HG22	9:PB:180:VAL:H	1.85	0.41
9:PD:329:GLN:O	9:PD:333:VAL:HG12	2.21	0.41
9:PF:347:ASN:HD21	8:PG:181:VAL:HA	1.85	0.41
8:PG:56:THR:HG22	8:PG:60:LYS:O	2.20	0.41
8:PK:231:ILE:O	8:PK:235:VAL:HG12	2.20	0.41
9:PL:89:ASN:HD22	9:PL:89:ASN:HA	1.65	0.41
8:QC:71:GLU:HA	8:QC:72:PRO:HD3	1.84	0.41
9:QF:270:PHE:HB3	9:QF:273:LEU:HD21	2.02	0.41
8:QG:264:ARG:HE	8:QG:264:ARG:HB2	1.68	0.41
9:QH:16:ILE:HA	9:QH:226:ASN:ND2	2.35	0.41
9:QH:166:THR:OG1	9:QH:199:THR:OG1	2.24	0.41
8:QK:5:ILE:HD12	8:QK:125:LEU:HG	2.02	0.41
8:QK:14:VAL:HG22	8:QK:67:PHE:HB3	2.02	0.41
8:QK:248:LEU:HB2	8:QK:355:ILE:HG12	2.01	0.41
9:QL:135:LEU:O	9:QL:166:THR:HA	2.20	0.41
8:QM:2:ARG:NH1	8:QM:251:ASP:OD1	2.41	0.41
9:RB:3:GLU:HG3	9:RB:62:ARG:NH2	2.35	0.41
9:RB:221:THR:HG23	9:RB:224:ASP:H	1.85	0.41
8:RC:133:GLN:HG2	8:RC:252:LEU:HD12	2.02	0.41
9:RD:252:LYS:HG3	8:RE:100:ALA:HB1	2.02	0.41
8:RG:399:TYR:HB2	8:RG:402:ARG:HG2	2.02	0.41
8:RK:405:VAL:O	8:RK:408:TYR:N	2.53	0.41
8:RM:108:TYR:CE2	8:RM:413:MET:HG2	2.55	0.41
8:RM:388:TRP:CD1	8:RM:425:LEU:HD11	2.56	0.41
9:SB:324:LYS:HZ3	8:SC:221:ARG:HA	1.85	0.41
9:SB:416:ASN:HA	9:SB:419:VAL:HG22	2.02	0.41
9:SD:21:TRP:HA	9:SD:24:ILE:HG22	2.01	0.41
8:SE:226:ASN:HA	8:SE:229:ARG:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SF:6:HIS:HD2	9:SF:8:GLN:HE21	1.68	0.41
9:SH:65:LEU:HD13	9:SH:90:PHE:HE1	1.85	0.41
9:SJ:48:ASN:OD1	9:SJ:48:ASN:N	2.50	0.41
9:SJ:268:PRO:HD2	9:SJ:300:MET:HB2	2.01	0.41
8:SM:252:LEU:HD13	8:SM:255:PHE:CE1	2.54	0.41
8:TC:319:TYR:HB2	8:TC:355:ILE:HD13	2.02	0.41
9:TF:182:PRO:HG2	9:TF:388:MET:HE3	2.02	0.41
9:TF:390:ARG:CZ	9:TF:390:ARG:HB3	2.49	0.41
9:TL:34:GLY:O	9:TL:59:TYR:N	2.49	0.41
9:TL:255:VAL:HA	8:TM:407:TRP:CZ3	2.55	0.41
8:TM:79:ARG:NH2	8:TM:92:LEU:O	2.53	0.41
9:UB:117:LEU:HD23	9:UB:117:LEU:HA	1.93	0.41
8:UC:132:LEU:HG	8:UC:164:LYS:HD2	2.01	0.41
8:UE:255:PHE:CZ	8:UE:318:LEU:HD21	2.55	0.41
9:UH:297:LYS:HE3	9:UH:297:LYS:HB3	1.92	0.41
9:UJ:306:ARG:NH1	9:UJ:306:ARG:HA	2.34	0.41
8:UK:195:LEU:HD11	8:UK:428:LEU:HD12	2.02	0.41
9:UN:217:LEU:HD12	9:UN:217:LEU:HA	1.91	0.41
9:VB:165:ASN:OD1	9:VB:165:ASN:N	2.53	0.41
9:VB:272:PRO:HG3	9:VB:364:SER:HA	2.02	0.41
8:VE:422:ARG:HA	8:VE:422:ARG:HD2	1.87	0.41
9:VF:200:TYR:HE1	9:VF:266:PHE:HD2	1.66	0.41
9:VH:67:ASP:HB3	9:VH:73:MET:HE3	2.02	0.41
9:VJ:65:LEU:HD22	9:VJ:90:PHE:HE1	1.85	0.41
8:VK:220:GLU:OE2	8:VK:221:ARG:HD3	2.20	0.41
8:VK:311:LYS:NZ	8:VK:436:GLY:HA2	2.28	0.41
9:VL:379:LYS:HD2	9:VL:379:LYS:HA	1.67	0.41
8:VM:8:HIS:CD2	8:VM:67:PHE:HE1	2.38	0.41
8:VM:346:TRP:CD1	9:VN:391:ARG:HD3	2.54	0.41
9:WB:207:LEU:HD12	9:WB:207:LEU:HA	1.87	0.41
8:WI:214:ARG:HH21	8:WI:221:ARG:H	1.66	0.41
8:WI:251:ASP:OD2	8:WI:253:THR:OG1	2.32	0.41
9:WN:167:PHE:CE2	9:WN:233:MET:HB2	2.55	0.41
56:XI:22:LEU:HD21	56:XI:47:LEU:HD11	2.02	0.41
59:b:281:LYS:HD3	59:b:281:LYS:HA	1.82	0.41
60:e:17:LEU:HD23	60:e:17:LEU:HA	1.93	0.41
60:f:209:ARG:HH11	60:f:209:ARG:HG2	1.84	0.41
63:l:72:LEU:HD22	63:l:80:LEU:HD23	2.01	0.41
66:u:314:LYS:HA	66:u:314:LYS:HD2	1.83	0.41
66:u:373:ASP:O	66:u:377:THR:HG23	2.20	0.41
66:w:275:PHE:CG	66:w:392:LYS:HG3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:x:145:PRO:HG2	3:x:149:ARG:HB3	2.01	0.41
3:x:257:SER:OG	3:x:258:ALA:N	2.53	0.41
2:0E:85:GLU:OE2	2:0E:102:LYS:NZ	2.54	0.41
2:0c:34:ARG:HD3	2:0c:135:TYR:OH	2.20	0.41
2:0e:65:ARG:NH1	9:O0:37:HIS:HA	2.35	0.41
4:3:1466:LEU:HD23	4:3:1466:LEU:HA	1.91	0.41
7:A7:68:PRO:O	7:A7:70:TYR:N	2.53	0.41
8:AE:18:ASN:HD21	8:AE:78:VAL:HG22	1.85	0.41
8:AG:180:ALA:HB3	8:AG:183:GLU:HG3	2.01	0.41
9:AH:324:LYS:NZ	8:AI:221:ARG:H	2.18	0.41
8:AK:76:ASP:HB3	14:Bc:222:TYR:CE1	2.55	0.41
8:AK:163:LYS:HD2	8:AK:163:LYS:HA	1.91	0.41
8:AK:306:ASP:HA	8:AK:307:PRO:HD3	1.88	0.41
8:AM:103:TYR:OH	8:AM:193:THR:HG21	2.19	0.41
8:AM:154:MET:HE1	8:AM:198:SER:HA	2.02	0.41
10:AQ:43:ALA:HB3	9:KL:391:ARG:HA	2.00	0.41
13:Aa:633:ARG:HD3	47:Y:502:ARG:NH2	2.34	0.41
13:Ac:154:TYR:CZ	13:Ac:177:CYS:HB2	2.55	0.41
13:Ad:243:ASP:OD1	13:Ad:243:ASP:N	2.53	0.41
14:An:20:TYR:OH	9:DL:45:GLU:OE1	2.22	0.41
16:At:241:SER:HA	9:FJ:336:LYS:HG2	2.01	0.41
8:BA:245:ASP:OD1	8:BA:249:ASN:ND2	2.53	0.41
8:BA:377:MET:HE2	8:BA:377:MET:HB3	1.91	0.41
8:BE:306:ASP:HA	8:BE:307:PRO:HD3	1.95	0.41
9:BF:207:LEU:HD11	9:BF:300:MET:HE1	2.02	0.41
8:BG:6:SER:HB3	8:BG:136:LEU:HB2	2.02	0.41
8:BG:199:ASP:OD1	8:BG:199:ASP:N	2.53	0.41
9:BH:260:PHE:HE1	9:BH:425:TYR:CE2	2.37	0.41
8:BK:259:LEU:HD21	8:BK:316:CYS:HB2	2.01	0.41
9:BL:103:LYS:HB2	9:BL:103:LYS:HE3	1.68	0.41
9:BL:344:TRP:CE3	9:BL:345:ILE:HG13	2.55	0.41
9:BL:392:LYS:O	9:BL:395:LEU:HB2	2.21	0.41
8:BM:211:ASP:HB3	8:BM:215:ARG:NH2	2.36	0.41
19:BQ:239:LYS:HA	19:BQ:239:LYS:HD3	1.69	0.41
14:Bc:63:LYS:HG3	44:EZ:222:TYR:HE1	1.84	0.41
23:Bf:127:TYR:HB3	8:HC:290:GLU:OE1	2.20	0.41
21:Bk:268:VAL:HG21	21:Bk:273:TRP:CD1	2.56	0.41
25:Bm:73:UNK:C	9:RB:320:ARG:HH12	2.33	0.41
25:Bp:74:UNK:HA	9:OB:320:ARG:HH22	1.84	0.41
26:Bu:176:ILE:HA	26:Bu:177:PRO:HD3	1.88	0.41
18:Bz:57:LEU:HD11	9:LD:117:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:85:GLN:HG2	5:C:86:SER:N	2.35	0.41
29:C1:458:LEU:HD12	29:C1:458:LEU:HA	1.89	0.41
28:C8:214:GLU:O	28:C8:218:GLU:HG2	2.20	0.41
28:C8:415:MET:HG3	28:DO:145:ASN:ND2	2.35	0.41
28:C9:178:LYS:HE2	28:C9:178:LYS:HB3	1.92	0.41
8:CA:188:ILE:HG22	8:CA:425:LEU:HD22	2.02	0.41
8:CE:14:VAL:HG11	8:CE:74:VAL:HG13	2.00	0.41
8:CG:277:SER:HB3	8:CG:280:LYS:HD3	2.02	0.41
8:CI:341:ILE:HD13	8:CI:341:ILE:HA	1.85	0.41
9:CJ:3:GLU:HA	9:CJ:49:VAL:HA	2.02	0.41
9:CJ:285:THR:HB	9:CJ:287:PRO:HD2	2.01	0.41
8:CK:195:LEU:HB3	8:CK:264:ARG:HH22	1.85	0.41
8:CK:360:PRO:HG3	8:CK:374:ALA:HB2	2.02	0.41
9:CL:21:TRP:HZ3	9:CL:50:TYR:HB3	1.86	0.41
2:Cd:14:GLN:HA	2:Cd:14:GLN:HE21	1.85	0.41
32:Cm:387:GLU:O	32:Cm:392:PRO:HD3	2.20	0.41
33:Ct:396:LYS:HE2	43:E3:61:GLN:HG3	2.03	0.41
33:Cx:22:TYR:O	33:Cx:26:THR:HG22	2.21	0.41
29:Cz:349:ARG:O	29:Cz:353:GLU:HG2	2.20	0.41
29:D2:166:LEU:HD12	29:D2:166:LEU:HA	1.91	0.41
29:D2:245:ASP:HB3	29:D2:313:MET:HE1	2.01	0.41
29:D3:350:ILE:HD13	29:D3:469:LYS:HG3	2.02	0.41
29:D4:269:LYS:HE2	29:D4:269:LYS:HB3	1.78	0.41
29:D5:195:LEU:HD23	29:D5:195:LEU:HA	1.93	0.41
29:D5:380:LEU:HD23	29:D5:380:LEU:HA	1.87	0.41
29:D8:411:CYS:SG	29:D9:148:ARG:NH2	2.94	0.41
8:DA:233:GLN:HG3	8:DA:368:LEU:HD11	2.03	0.41
8:DA:277:SER:H	8:DA:280:LYS:HE2	1.84	0.41
8:DA:362:VAL:HG21	8:DA:370:LYS:HA	2.03	0.41
8:DA:422:ARG:HD2	8:DA:422:ARG:HA	1.95	0.41
9:DB:267:MET:HE3	9:DB:303:CYS:SG	2.60	0.41
9:DD:21:TRP:O	9:DD:25:SER:OG	2.30	0.41
9:DF:263:LEU:HD22	9:DF:422:TYR:CE1	2.54	0.41
9:DH:253:LEU:HD23	9:DH:253:LEU:HA	1.96	0.41
8:DK:296:PHE:HZ	8:DK:351:PHE:HE2	1.67	0.41
8:DM:248:LEU:HD23	8:DM:248:LEU:HA	1.83	0.41
29:DQ:145:LEU:HB3	29:DQ:271:LEU:HD12	2.01	0.41
29:DR:336:TRP:O	29:DR:340:THR:HG23	2.20	0.41
29:DU:205:ILE:HG23	29:DU:460:ILE:HD12	2.03	0.41
29:DV:352:GLU:O	29:DV:356:VAL:HG12	2.21	0.41
35:Da:156:SER:OG	35:Da:157:PHE:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Df:120:HIS:CE1	38:Df:127:GLN:HA	2.55	0.41
39:Dl:121:SER:OG	8:MM:424:ASP:OD2	2.34	0.41
29:EA:187:LEU:HB3	29:EA:229:GLN:HE21	1.85	0.41
9:EB:165:ASN:OD1	9:EB:198:GLU:HG3	2.20	0.41
8:EC:382:THR:HG21	8:EC:436:GLY:HA3	2.02	0.41
9:EH:28:HIS:HD1	9:EH:47:ILE:HG13	1.84	0.41
9:EH:28:HIS:ND1	9:EH:47:ILE:HG13	2.35	0.41
8:EM:210:TYR:CE2	8:EM:227:LEU:HD11	2.54	0.41
8:EM:362:VAL:H	8:EM:370:LYS:NZ	2.18	0.41
29:EO:145:LEU:HD12	29:EO:145:LEU:HA	1.87	0.41
29:EP:140:GLY:HA2	29:EP:143:ARG:HH12	1.83	0.41
29:EQ:399:LEU:HD23	29:EQ:399:LEU:HA	1.87	0.41
44:EW:195:LYS:HD3	28:F5:384:LYS:HE2	2.02	0.41
42:F:709:LEU:HB3	42:F:711:LEU:H	1.85	0.41
28:F5:415:MET:H	28:F5:415:MET:HG3	1.58	0.41
9:FB:19:LYS:O	9:FB:23:VAL:HG12	2.20	0.41
9:FB:54:ALA:HB3	9:FB:58:LYS:HB3	2.02	0.41
8:FC:60:LYS:NZ	8:FC:85:GLN:O	2.40	0.41
8:FG:142:GLY:O	8:FG:186:ASN:ND2	2.52	0.41
9:FH:7:LEU:HB3	9:FH:135:LEU:HD13	2.02	0.41
9:FJ:67:ASP:HB2	9:FJ:73:MET:HE3	2.02	0.41
45:G:571:LYS:NZ	45:G:573:GLN:O	2.53	0.41
8:GG:62:VAL:HA	8:GG:63:PRO:HD3	1.93	0.41
8:GG:288:VAL:HG22	8:GG:373:ARG:HD3	2.02	0.41
8:GI:190:THR:O	8:GI:194:THR:OG1	2.33	0.41
8:GK:164:LYS:HB3	8:GK:164:LYS:HE2	1.94	0.41
9:HH:35:THR:HG22	9:HH:58:LYS:HG2	2.02	0.41
8:HM:241:SER:O	8:HM:249:ASN:ND2	2.52	0.41
9:HN:101:TRP:HB2	9:HN:184:ASN:OD1	2.19	0.41
9:HN:278:SER:O	9:HN:278:SER:OG	2.36	0.41
8:HO:184:PRO:CG	8:HO:394:LYS:HG2	2.49	0.41
8:IE:151:SER:O	8:IE:155:GLU:HG3	2.19	0.41
8:IE:186:ASN:OD1	8:IE:408:TYR:OH	2.30	0.41
9:IF:200:TYR:HE1	9:IF:368:ILE:HD12	1.85	0.41
9:IH:39:ASP:OD2	9:IH:39:ASP:N	2.40	0.41
9:IH:230:SER:HA	9:IH:233:MET:HG2	2.03	0.41
9:IJ:112:LEU:O	9:IJ:116:VAL:HG23	2.20	0.41
9:IJ:336:LYS:HD3	9:IJ:336:LYS:HA	1.86	0.41
8:IK:53:PHE:HB3	8:IK:61:HIS:HB3	2.02	0.41
9:IN:117:LEU:HA	9:IN:120:VAL:HG12	2.02	0.41
48:J:53:LEU:HA	48:J:53:LEU:HD12	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JB:2:ARG:HA	9:JB:2:ARG:HD3	1.64	0.41
9:JB:36:TYR:OH	9:JB:40:SER:O	2.38	0.41
9:JB:171:PRO:HG2	9:JB:185:ALA:HB2	2.02	0.41
8:JE:188:ILE:HD13	8:JE:188:ILE:HA	1.87	0.41
8:JE:248:LEU:HD12	8:JE:248:LEU:HA	1.88	0.41
48:K:115:ALA:O	48:K:117:VAL:N	2.48	0.41
8:KC:234:ILE:HG23	8:KC:376:CYS:SG	2.60	0.41
8:KG:322:ASP:OD1	8:KG:322:ASP:N	2.53	0.41
9:KJ:167:PHE:CD2	9:KJ:233:MET:HG2	2.55	0.41
8:KM:172:TYR:N	8:KM:204:VAL:O	2.39	0.41
8:KM:346:TRP:O	9:KN:388:MET:HG2	2.20	0.41
9:KN:73:MET:HG3	9:KN:92:PHE:CD2	2.51	0.41
9:KN:165:ASN:ND2	9:KN:250:LEU:HD22	2.35	0.41
9:KN:236:VAL:HG23	9:KN:237:THR:HG23	2.02	0.41
8:LG:294:ALA:HA	8:LG:297:GLU:HG3	2.02	0.41
9:LL:139:LEU:HA	9:LL:145:SER:HB2	2.01	0.41
8:MC:27:GLU:OE1	8:MC:243:ARG:NH1	2.51	0.41
9:MF:289:LEU:HD11	9:MF:363:MET:HB3	2.01	0.41
9:MH:1:MET:HG2	9:MH:48:ASN:ND2	2.35	0.41
9:MH:249:ASP:H	9:MH:252:LYS:HB3	1.84	0.41
8:MK:422:ARG:HH12	8:MK:426:ALA:HB2	1.85	0.41
8:MM:279:GLU:CD	8:MM:279:GLU:H	2.28	0.41
8:NA:88:HIS:HA	8:NA:89:PRO:HD3	1.88	0.41
9:NF:211:CYS:HB3	9:NF:217:LEU:HD12	2.02	0.41
8:NG:259:LEU:O	8:NG:380:ASN:ND2	2.53	0.41
9:NH:31:ASP:OD1	9:NH:32:PRO:HD2	2.20	0.41
9:NJ:404:ASP:OD1	9:NJ:404:ASP:N	2.52	0.41
8:OA:331:ALA:O	8:OA:335:ILE:HG12	2.20	0.41
9:OB:4:ILE:HG13	9:OB:132:GLY:HA3	2.02	0.41
8:OE:68:VAL:HG22	8:OE:93:ILE:HB	2.02	0.41
8:OI:21:TRP:CZ3	8:OI:63:PRO:HB3	2.55	0.41
8:OI:238:ILE:HD13	8:OI:238:ILE:HA	1.94	0.41
9:OJ:257:MET:HE2	9:OJ:257:MET:HA	2.02	0.41
9:OJ:342:VAL:HG21	9:OJ:344:TRP:CH2	2.55	0.41
8:PA:161:TYR:HD1	8:PA:161:TYR:HA	1.74	0.41
8:PA:238:ILE:HD11	8:PA:378:LEU:HD21	2.03	0.41
8:PC:264:ARG:HH11	8:PC:264:ARG:HG3	1.86	0.41
8:PE:393:HIS:HD1	8:PE:393:HIS:C	2.28	0.41
9:PH:67:ASP:HA	9:PH:143:THR:HG21	2.02	0.41
8:PI:11:GLN:HG3	67:PI:501:GTP:O2B	2.20	0.41
9:PJ:257:MET:HB3	9:PJ:266:PHE:HZ	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PM:8:HIS:HA	8:PM:138:PHE:HB2	2.01	0.41
8:QC:51:THR:HG21	8:QC:243:ARG:HG2	2.02	0.41
9:QD:358:PRO:HB2	9:QD:361:LEU:HD21	2.01	0.41
8:QG:164:LYS:HD3	8:QG:164:LYS:HA	1.73	0.41
9:QH:51:TYR:HB3	9:QH:59:TYR:HB3	2.02	0.41
9:QH:239:CYS:HB2	9:QH:248:ALA:H	1.84	0.41
8:QK:30:ILE:HD11	8:QK:34:GLY:HA2	2.01	0.41
8:QK:76:ASP:HA	8:QK:79:ARG:HE	1.85	0.41
9:QL:14:ASN:ND2	9:QL:73:MET:SD	2.92	0.41
9:QL:240:LEU:HD23	9:QL:249:ASP:HB3	2.02	0.41
9:QL:270:PHE:HD1	9:QL:272:PRO:HD2	1.83	0.41
8:QM:345:ASP:OD2	8:QM:438:ASP:HB2	2.20	0.41
9:RB:284:LEU:HD12	9:RB:284:LEU:HA	1.82	0.41
9:RD:65:LEU:HD22	9:RD:90:PHE:HE1	1.84	0.41
9:RD:238:THR:HG21	9:RD:318:ARG:HD2	2.02	0.41
9:RH:61:PRO:HD3	9:RH:84:ILE:HG22	2.02	0.41
9:RH:103:LYS:O	9:RH:108:GLU:N	2.41	0.41
8:RI:272:TYR:CD2	8:RI:274:PRO:HD2	2.55	0.41
8:SA:133:GLN:O	8:SA:165:SER:OG	2.35	0.41
8:SC:98:ASP:O	8:SC:105:ARG:NH2	2.53	0.41
8:SC:102:ASN:HB3	8:SC:105:ARG:HG2	2.02	0.41
9:SD:228:LEU:HD12	9:SD:228:LEU:HA	1.83	0.41
9:SF:173:PRO:HD3	9:SF:380:ARG:NE	2.35	0.41
9:SJ:372:THR:HA	9:SJ:422:TYR:HE1	1.83	0.41
8:SK:7:ILE:HG23	8:SK:66:VAL:HG13	2.02	0.41
8:SK:261:PRO:HB2	8:SK:262:TYR:CD2	2.55	0.41
9:SL:164:MET:HE2	9:SL:164:MET:HB3	1.94	0.41
54:T:197:LYS:HD3	54:T:197:LYS:HA	1.67	0.41
8:TI:27:GLU:OE1	8:TI:243:ARG:NH1	2.53	0.41
8:TI:251:ASP:OD1	8:TI:254:GLU:N	2.53	0.41
9:TJ:217:LEU:HB3	9:TJ:220:PRO:HD3	2.02	0.41
8:TM:70:LEU:HD21	8:TM:149:PHE:HE2	1.85	0.41
8:TM:304:LYS:HD2	8:TM:304:LYS:HA	1.79	0.41
9:UD:208:TYR:CE2	9:UD:225:LEU:HD11	2.55	0.41
9:UH:285:THR:HG23	9:UH:287:PRO:HD2	2.02	0.41
8:UI:313:MET:HE2	8:UI:346:TRP:HZ2	1.84	0.41
9:UJ:165:ASN:HB3	9:UJ:198:GLU:HB2	2.02	0.41
8:VC:256:GLN:HB2	9:VD:397:TRP:CZ2	2.55	0.41
9:VD:8:GLN:HB2	9:VD:65:LEU:HA	2.02	0.41
8:VE:99:ALA:H	8:VE:145:THR:HG22	1.86	0.41
8:VE:240:ALA:HB1	8:VE:356:ASN:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VG:339:ARG:H	8:VG:339:ARG:HG3	1.72	0.41
8:VK:194:THR:HA	8:VK:197:HIS:CE1	2.56	0.41
9:VL:116:VAL:HG11	9:VL:151:LEU:HD11	2.02	0.41
9:VL:261:PRO:HD3	8:VM:406:HIS:CG	2.56	0.41
8:VM:8:HIS:CD2	8:VM:138:PHE:HD2	2.38	0.41
8:VM:267:PHE:CG	8:VM:388:TRP:HH2	2.39	0.41
8:WC:125:LEU:HD23	8:WC:125:LEU:HA	1.86	0.41
9:WD:135:LEU:HD11	9:WD:137:HIS:HB3	2.01	0.41
8:WE:231:ILE:HA	8:WE:234:ILE:HG22	2.02	0.41
9:WF:70:PRO:HD3	9:WF:94:GLN:HA	2.01	0.41
8:WG:3:GLU:HA	8:WG:51:THR:HA	2.01	0.41
8:WG:191:THR:HA	8:WG:194:THR:HG22	2.02	0.41
8:WG:264:ARG:NH1	8:WG:431:ASP:OD1	2.54	0.41
8:WI:381:THR:HG22	8:WI:383:ALA:H	1.85	0.41
9:WJ:344:TRP:CD1	9:WJ:344:TRP:H	2.38	0.41
9:WN:247:ASN:O	9:WN:252:LYS:NZ	2.46	0.41
47:X:260:ARG:HB2	47:X:262:TYR:HE1	1.84	0.41
56:XH:71:ILE:HG22	56:XH:73:LEU:H	1.84	0.41
56:XK:86:TYR:O	56:XK:159:ASN:HB2	2.21	0.41
57:YI:102:LYS:HE2	57:YI:102:LYS:HB2	1.75	0.41
57:YI:105:TYR:CZ	57:YI:134:MET:HG2	2.54	0.41
57:YJ:186:LEU:HD23	57:YJ:186:LEU:HA	1.89	0.41
57:YL:111:LEU:HD12	57:YL:111:LEU:HA	1.88	0.41
59:a:154:TRP:CD1	59:a:154:TRP:H	2.37	0.41
60:g:519:GLN:HB3	60:g:532:TRP:O	2.20	0.41
60:g:562:HIS:CE1	60:g:619:TYR:HE1	2.37	0.41
63:k:64:ASP:OD1	63:k:64:ASP:N	2.53	0.41
46:o:292:LYS:HD2	46:o:292:LYS:HA	1.77	0.41
65:r:94:LEU:H	65:r:94:LEU:HG	1.69	0.41
66:w:314:LYS:HD2	66:w:314:LYS:HA	1.87	0.41
3:x:19:GLY:HA3	3:x:26:VAL:HB	2.02	0.41
2:0A:117:LYS:HA	2:0A:117:LYS:HD3	1.82	0.41
2:0e:30:LEU:HD11	2:0e:50:VAL:HG13	2.01	0.41
2:0i:80:LEU:HD12	2:0i:80:LEU:HA	1.88	0.41
2:0i:117:LYS:HE2	2:0i:117:LYS:HA	2.02	0.41
2:0i:128:CYS:O	8:RA:282:TYR:OH	2.37	0.41
7:A1:108:PRO:HA	8:OG:116:ASP:OD2	2.20	0.41
7:A8:147:VAL:HG12	8:TK:211:ASP:OD1	2.21	0.41
8:AA:191:THR:HG23	8:AA:425:LEU:HD21	2.00	0.41
8:AE:205:ASP:OD1	8:AE:207:GLU:N	2.47	0.41
8:AG:191:THR:O	8:AG:191:THR:OG1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:320:ARG:HG3	8:AG:374:ALA:HB3	2.01	0.41
8:AI:218:ASP:OD1	8:AI:218:ASP:N	2.37	0.41
8:AI:221:ARG:HH21	15:Ap:35:PHE:C	2.29	0.41
9:AJ:273:LEU:HD23	9:AJ:273:LEU:HA	1.93	0.41
8:AK:26:LEU:HD12	8:AK:363:VAL:HG12	2.03	0.41
13:Ac:469:ARG:HE	13:Ac:469:ARG:HB3	1.63	0.41
13:Ad:107:GLN:O	9:BB:218:THR:OG1	2.36	0.41
14:Ao:76:VAL:HB	14:Ao:79:ARG:HE	1.85	0.41
15:Ar:40:PRO:HG2	15:Ar:43:THR:OG1	2.20	0.41
7:Au:243:SER:OG	7:Au:244:ASP:N	2.54	0.41
7:Aw:116:PHE:HB3	8:OA:214:ARG:HH12	1.85	0.41
18:B6:213:GLU:O	18:B6:216:SER:OG	2.38	0.41
9:BD:68:LEU:HD12	9:BD:97:ALA:HB2	2.02	0.41
8:BI:84:ARG:HH11	14:BY:278:ARG:NH1	2.18	0.41
8:BI:409:VAL:HA	8:BI:413:MET:HB3	2.01	0.41
9:BJ:208:TYR:CE1	9:BJ:225:LEU:HD11	2.56	0.41
8:BK:391:LEU:HD12	8:BK:391:LEU:HA	1.91	0.41
9:BL:6:HIS:HE2	9:BL:136:THR:HG23	1.85	0.41
19:BO:120:LEU:HD11	39:Dl:115:PRO:HG2	2.02	0.41
19:BO:311:LEU:HA	19:BO:314:MET:HB2	2.01	0.41
20:BT:5:LEU:HD23	20:BT:5:LEU:HA	1.94	0.41
21:BU:15:LEU:HD12	21:BU:15:LEU:HA	1.93	0.41
14:Ba:105:PRO:HD2	29:DV:52:ARG:HD2	2.01	0.41
14:Bb:281:GLY:H	14:Bb:306:ARG:NH1	2.18	0.41
23:Bf:86:ARG:HA	23:Bf:86:ARG:HD3	1.75	0.41
21:Bj:246:MET:HE2	9:KB:361:LEU:HD21	2.02	0.41
25:Bo:207:UNK:C	9:PJ:320:ARG:HH12	2.33	0.41
25:Bp:174:UNK:N	9:OH:355:ASP:OD2	2.53	0.41
27:Bs:336:LYS:HD3	27:Bs:340:GLU:OE2	2.20	0.41
28:C0:434:LEU:HD23	28:C0:434:LEU:HA	1.91	0.41
28:C3:437:ARG:HD3	28:C3:437:ARG:HA	1.88	0.41
28:C5:469:ASP:O	28:C5:473:CYS:HB2	2.20	0.41
28:C7:210:LEU:HD12	28:C7:210:LEU:HA	1.90	0.41
28:C7:377:MET:HE3	28:C7:377:MET:HB2	1.75	0.41
9:CD:21:TRP:HA	9:CD:24:ILE:HG22	2.03	0.41
8:CE:76:ASP:HA	8:CE:79:ARG:HD2	2.02	0.41
8:CE:236:SER:O	8:CE:243:ARG:NH2	2.53	0.41
8:CE:349:THR:OG1	9:CF:179:VAL:HA	2.20	0.41
9:CH:198:GLU:HB2	9:CH:266:PHE:CE2	2.55	0.41
9:CJ:263:LEU:HD21	9:CJ:425:TYR:HE2	1.85	0.41
8:CK:285:GLN:H	8:CK:285:GLN:HG2	1.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CM:99:ALA:HA	8:CM:105:ARG:NH1	2.36	0.41
2:CU:5:VAL:HB	2:CU:84:PHE:HE1	1.85	0.41
2:CV:14:GLN:O	2:CV:18:ILE:HG12	2.20	0.41
2:CX:99:GLU:O	2:CX:103:THR:HG22	2.19	0.41
2:CY:115:ARG:HB2	2:CY:117:LYS:NZ	2.36	0.41
2:Ca:80:LEU:HD23	2:Ca:80:LEU:HA	1.81	0.41
32:Cm:126:ASP:O	32:Cm:128:VAL:N	2.53	0.41
32:Co:111:ILE:HD12	32:Co:393:MET:HG2	2.01	0.41
33:Cq:215:LEU:HD11	33:Cr:332:ASP:HA	2.01	0.41
34:D:112:ARG:HA	34:D:112:ARG:HD2	1.84	0.41
29:D2:388:LYS:O	29:D2:426:ILE:HD11	2.20	0.41
29:D4:281:SER:CA	29:D5:393:LYS:HE2	2.51	0.41
29:D8:407:ASN:N	29:D8:407:ASN:OD1	2.53	0.41
8:DA:171:ILE:HG13	8:DA:204:VAL:HB	2.01	0.41
8:DA:220:GLU:HB3	8:DA:221:ARG:CZ	2.50	0.41
9:DB:2:ARG:HH22	8:DC:98:ASP:H	1.67	0.41
9:DB:142:GLY:HA2	9:DB:184:ASN:HD21	1.86	0.41
9:DD:178:THR:HG22	9:DD:180:VAL:H	1.85	0.41
9:DD:284:LEU:HD23	9:DD:363:MET:HE3	2.02	0.41
8:DE:252:LEU:HA	8:DE:255:PHE:HD2	1.85	0.41
9:DH:113:VAL:HA	9:DH:116:VAL:HG12	2.02	0.41
9:DH:293:MET:HA	9:DH:298:ASN:HD22	1.85	0.41
8:DI:103:TYR:OH	8:DI:193:THR:HG21	2.20	0.41
8:DK:234:ILE:HD11	8:DK:272:TYR:HB2	2.01	0.41
8:DK:317:MET:HE2	8:DK:317:MET:HB3	1.93	0.41
9:DL:417:ASP:OD1	9:DL:417:ASP:N	2.52	0.41
8:DM:21:TRP:CH2	8:DM:63:PRO:HB3	2.56	0.41
8:DM:155:GLU:OE1	8:DM:155:GLU:N	2.42	0.41
8:DM:304:LYS:HD3	8:DM:304:LYS:HA	1.74	0.41
29:DQ:461:LYS:HE2	29:DQ:461:LYS:HB3	1.66	0.41
29:DS:166:LEU:HD22	29:DS:250:GLN:HB2	2.02	0.41
38:Df:126:ILE:HD13	38:Df:136:LEU:HD13	2.02	0.41
40:Dm:51:ASN:O	9:GH:59:TYR:OH	2.35	0.41
40:Dm:128:PHE:CE2	40:Dm:130:LEU:HB2	2.56	0.41
8:EC:122:ILE:HD12	8:EC:122:ILE:HA	1.85	0.41
8:EG:258:ASN:N	8:EG:258:ASN:OD1	2.53	0.41
9:EH:26:ASP:CG	9:EH:359:ARG:HH12	2.28	0.41
8:EK:217:LEU:HD23	8:EK:217:LEU:HA	1.91	0.41
8:EK:225:THR:O	8:EK:229:ARG:HG2	2.21	0.41
8:EM:347:CYS:HA	9:EN:388:MET:HE1	2.02	0.41
29:EQ:350:ILE:HD13	29:EQ:350:ILE:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EV:321:HIS:O	44:EV:325:THR:OG1	2.36	0.41
44:EY:148:PRO:O	44:EY:152:VAL:HG23	2.20	0.41
28:F3:178:LYS:HD2	28:F3:241:ILE:HG12	2.01	0.41
8:FC:138:PHE:HZ	8:FC:235:VAL:HG21	1.85	0.41
8:FE:155:GLU:OE1	8:FE:197:HIS:NE2	2.53	0.41
8:FG:317:MET:HE3	8:FG:317:MET:HB3	1.89	0.41
9:FH:144:GLY:N	69:FH:501:GDP:O1B	2.52	0.41
9:FJ:4:ILE:HB	9:FJ:50:TYR:HE1	1.85	0.41
9:FL:167:PHE:HE2	9:FL:233:MET:HB2	1.85	0.41
9:FN:170:VAL:N	9:FN:202:ILE:O	2.39	0.41
9:FN:252:LYS:HD2	9:FN:252:LYS:HA	1.90	0.41
9:GD:250:LEU:HD12	9:GD:250:LEU:HA	1.87	0.41
8:GE:125:LEU:HD23	8:GE:125:LEU:HA	1.91	0.41
9:GH:211:CYS:HA	9:GH:215:LEU:HB2	2.00	0.41
9:GJ:15:GLN:NE2	9:GJ:72:THR:OG1	2.54	0.41
9:GJ:67:ASP:OD1	9:GJ:68:LEU:N	2.52	0.41
9:GL:374:ILE:HG22	9:GL:422:TYR:CZ	2.56	0.41
8:GM:91:GLN:HG2	8:GM:121:ARG:NH2	2.35	0.41
9:GN:406:MET:H	9:GN:406:MET:HG2	1.63	0.41
9:HD:174:LYS:HA	9:HD:174:LYS:HD2	1.72	0.41
9:HD:284:LEU:HD12	9:HD:363:MET:HE3	2.01	0.41
9:HD:347:ASN:OD1	8:HE:178:SER:OG	2.34	0.41
9:HJ:268:PRO:HG2	9:HJ:300:MET:HG3	2.02	0.41
9:HL:68:LEU:HD23	9:HL:68:LEU:HA	1.78	0.41
9:HL:86:ARG:CZ	9:IL:281:TYR:HB2	2.51	0.41
9:HL:295:ASP:OD1	9:HL:297:LYS:NZ	2.53	0.41
9:HL:318:ARG:HH21	9:HL:358:PRO:HG3	1.84	0.41
8:HO:103:TYR:HD2	8:HO:189:LEU:HD13	1.85	0.41
9:IB:266:PHE:CE1	9:IB:370:ASN:HB2	2.55	0.41
9:IB:346:PRO:HG3	8:IC:394:LYS:HB3	2.02	0.41
8:IG:252:LEU:HD23	8:IG:252:LEU:HA	1.90	0.41
8:IM:217:LEU:HD22	8:IM:367:ASP:OD2	2.20	0.41
8:IO:426:ALA:HA	8:IO:429:GLU:HB2	2.01	0.41
9:JD:173:PRO:HB3	9:JD:380:ARG:CD	2.49	0.41
9:JF:164:MET:HE2	9:JF:164:MET:HB2	1.89	0.41
8:JG:199:ASP:N	8:JG:199:ASP:OD2	2.53	0.41
8:JI:136:LEU:HD23	8:JI:167:LEU:HB2	2.02	0.41
8:JI:240:ALA:HA	8:JI:243:ARG:HH21	1.84	0.41
9:JJ:321:MET:HE2	9:JJ:326:VAL:HG22	2.02	0.41
8:JM:33:ASP:O	8:JM:60:LYS:NZ	2.50	0.41
9:JN:200:TYR:HB3	9:JN:268:PRO:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KB:255:VAL:HG23	8:KC:407:TRP:CG	2.55	0.41
8:KC:269:LEU:HD22	8:KC:303:VAL:HG21	2.02	0.41
8:KK:68:VAL:HG11	8:KK:149:PHE:CE2	2.47	0.41
50:L2:93:PRO:HG2	59:b:225:ARG:HH21	1.86	0.41
8:LG:311:LYS:NZ	8:LG:436:GLY:O	2.53	0.41
8:MK:234:ILE:HD11	8:MK:272:TYR:HB2	2.02	0.41
8:NA:332:ILE:HD13	8:NA:332:ILE:HA	1.82	0.41
9:ND:39:ASP:OD1	9:ND:39:ASP:N	2.49	0.41
9:NF:101:TRP:H	9:NF:398:TYR:HE2	1.67	0.41
9:NF:363:MET:HE3	9:NF:363:MET:HB3	1.98	0.41
8:NG:317:MET:SD	8:NG:317:MET:N	2.93	0.41
9:NH:22:GLU:HA	9:NH:81:PHE:CE2	2.54	0.41
9:NH:191:GLN:HA	9:NH:194:GLU:OE2	2.21	0.41
8:NK:26:LEU:HD12	8:NK:26:LEU:HA	1.88	0.41
8:OA:90:GLU:HG2	8:OA:121:ARG:NH1	2.35	0.41
8:OC:265:ILE:HG23	8:OC:432:TYR:HE1	1.84	0.41
9:OF:143:THR:OG1	69:OF:501:GDP:O1B	2.35	0.41
8:OI:239:THR:O	8:OI:243:ARG:NH1	2.53	0.41
8:OI:242:LEU:HD11	8:OI:252:LEU:HD22	2.02	0.41
9:OJ:330:MET:HE2	9:OJ:349:VAL:HG11	2.02	0.41
9:OJ:392:LYS:HA	9:OJ:395:LEU:HD13	2.02	0.41
8:OK:398:MET:HE3	8:OK:398:MET:HB2	1.87	0.41
8:PC:96:LYS:HD3	8:PC:96:LYS:HA	1.66	0.41
9:PJ:165:ASN:HB3	9:PJ:200:TYR:HE2	1.84	0.41
9:PL:47:ILE:H	9:PL:47:ILE:HG12	1.63	0.41
9:PL:101:TRP:CE3	9:PL:187:LEU:HD23	2.56	0.41
8:PM:200:CYS:HA	8:PM:266:HIS:HB2	2.02	0.41
8:QC:76:ASP:HA	8:QC:79:ARG:HD3	2.02	0.41
9:QD:327:ASP:HA	9:QD:330:MET:HG3	2.02	0.41
9:QF:246:LEU:HD23	9:QF:351:THR:HG22	2.02	0.41
9:QF:267:MET:SD	9:QF:267:MET:N	2.93	0.41
9:QJ:118:ASP:O	9:QJ:122:LYS:HG2	2.19	0.41
8:QK:437:VAL:O	9:QL:391:ARG:NH2	2.50	0.41
9:QL:16:ILE:HD13	9:QL:16:ILE:HG21	1.86	0.41
8:RA:171:ILE:HD11	8:RA:206:ASN:OD1	2.20	0.41
8:RA:377:MET:SD	8:RA:379:SER:OG	2.67	0.41
9:RD:143:THR:N	69:RD:501:GDP:O2B	2.53	0.41
9:RF:324:LYS:HE3	9:RF:324:LYS:HB3	1.84	0.41
9:RH:267:MET:HE3	9:RH:301:ALA:HB3	2.03	0.41
9:RJ:31:ASP:OD1	9:RJ:35:THR:OG1	2.34	0.41
8:RM:372:GLN:HG3	8:RM:373:ARG:HH21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SB:316:VAL:HA	9:SB:352:ALA:HB3	2.02	0.41
8:SE:212:ILE:HG21	8:SE:302:MET:HE1	2.03	0.41
9:SF:229:VAL:HA	9:SF:300:MET:HE1	2.02	0.41
9:SJ:289:LEU:HD22	9:SJ:363:MET:CE	2.50	0.41
8:SK:97:GLU:N	8:SK:97:GLU:OE2	2.54	0.41
8:SM:273:ALA:HB2	8:SM:295:CYS:SG	2.60	0.41
8:SM:330:ALA:O	8:SM:334:THR:HG23	2.21	0.41
9:TB:286:VAL:O	9:TB:290:THR:HG23	2.20	0.41
9:TD:256:ASN:HA	8:TE:404:PHE:CE2	2.56	0.41
9:TF:235:GLY:HA3	9:TF:366:THR:HG21	2.03	0.41
9:TF:334:GLN:HG2	9:TF:341:PHE:HD2	1.83	0.41
8:TG:384:ILE:HD12	8:TG:384:ILE:HA	1.87	0.41
8:TI:269:LEU:HD21	8:TI:303:VAL:HB	2.00	0.41
9:TJ:324:LYS:HB3	8:TK:210:TYR:CE1	2.55	0.41
9:TL:45:GLU:OE2	9:TL:45:GLU:N	2.42	0.41
9:TL:216:LYS:HB3	9:TL:216:LYS:HE3	1.87	0.41
8:TM:36:MET:HE3	8:TM:61:HIS:CE1	2.54	0.41
8:UE:250:VAL:HG21	8:UE:318:LEU:HD11	2.01	0.41
9:UF:202:ILE:HD13	9:UF:229:VAL:HG13	2.03	0.41
8:UG:319:TYR:HD2	8:UG:323:VAL:HG11	1.85	0.41
9:UJ:22:GLU:HA	9:UJ:81:PHE:HD2	1.85	0.41
9:UJ:280:GLN:H	9:UJ:280:GLN:HG2	1.63	0.41
9:UJ:324:LYS:HB2	8:UK:210:TYR:CD1	2.55	0.41
9:UJ:350:LYS:HD2	9:UJ:351:THR:H	1.86	0.41
9:UJ:350:LYS:HD2	9:UJ:351:THR:N	2.36	0.41
8:UK:174:ALA:HB3	8:UK:177:VAL:HB	2.01	0.41
9:UN:130:LEU:O	9:UN:162:ARG:NE	2.53	0.41
1:V:34:THR:O	1:V:36:ARG:HG3	2.21	0.41
8:VE:11:GLN:NE2	67:VE:501:GTP:O1B	2.39	0.41
9:VF:268:PRO:HG2	9:VF:300:MET:HB2	2.02	0.41
9:VH:238:THR:HG21	9:VH:318:ARG:HG2	2.02	0.41
8:VI:259:LEU:HD12	8:VI:259:LEU:HA	1.85	0.41
9:VL:293:MET:HE3	9:VL:367:PHE:HD1	1.86	0.41
8:VM:138:PHE:HE1	8:VM:169:PHE:CD2	2.38	0.41
8:WE:121:ARG:HA	8:WE:121:ARG:HD3	1.94	0.41
8:WE:310:GLY:HA3	8:WE:383:ALA:HB2	2.01	0.41
9:WF:18:ALA:HB2	9:WF:76:VAL:HG23	2.02	0.41
8:WI:319:TYR:HB2	8:WI:355:ILE:HD13	2.02	0.41
9:WJ:125:GLU:HB2	56:XI:45:LEU:HD13	2.02	0.41
9:WJ:267:MET:SD	9:WJ:301:ALA:HB3	2.60	0.41
8:WM:9:VAL:HB	8:WM:139:HIS:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WM:119:LEU:HD23	8:WM:119:LEU:HA	1.88	0.41
56:XM:67:LYS:HE2	56:XM:67:LYS:HB2	1.95	0.41
57:YG:225:ILE:O	57:YG:229:LEU:HD22	2.20	0.41
60:g:390:LYS:HA	60:g:390:LYS:HD2	1.83	0.41
60:g:394:SER:OG	60:g:396:TRP:NE1	2.52	0.41
66:v:376:SER:HB3	66:v:390:SER:HA	2.02	0.41
2:0W:102:LYS:HB3	2:0W:102:LYS:HE3	1.87	0.41
3:2:94:ALA:H	3:2:145:PRO:HB3	1.86	0.41
5:A:12:GLN:O	5:A:16:LYS:HG3	2.20	0.41
7:A7:215:LYS:NZ	8:RA:132:LEU:HD11	2.35	0.41
8:AA:22:GLU:OE1	20:BS:242:PHE:HD2	2.02	0.41
8:AC:132:LEU:HD12	8:AC:132:LEU:HA	1.70	0.41
9:AD:389:PHE:HZ	9:AD:405:GLU:HG2	1.85	0.41
8:AG:297:GLU:HA	8:AG:298:PRO:HD3	1.91	0.41
8:AI:434:GLU:HG3	56:XI:100:ARG:HH22	1.85	0.41
13:Aa:229:PHE:HB2	9:DN:280:GLN:HB3	2.02	0.41
13:Ab:111:LEU:HA	9:BJ:277:GLY:HA3	2.03	0.41
13:Ac:457:ARG:NH1	9:FF:219:THR:OG1	2.54	0.41
13:Ad:461:TYR:HB3	9:FB:276:ARG:NH1	2.35	0.41
15:Aq:122:ARG:HA	15:Aq:125:TYR:CE2	2.56	0.41
15:Aq:161:GLU:O	15:Aq:165:LEU:HG	2.20	0.41
5:B:103:ILE:HG23	5:B:106:ASP:HB2	2.02	0.41
17:B2:192:PRO:HG2	44:ES:174:ILE:HG21	2.02	0.41
9:BB:234:SER:O	9:BB:241:ARG:NH2	2.53	0.41
9:BD:52:ASN:OD1	9:BD:62:ARG:NH2	2.49	0.41
9:BD:356:ILE:HD13	14:BZ:272:PRO:HD2	2.01	0.41
8:BE:138:PHE:HZ	8:BE:235:VAL:HG11	1.84	0.41
9:BF:186:THR:HA	9:BF:189:VAL:HG12	2.03	0.41
9:BH:180:VAL:HG22	9:BH:183:TYR:HB2	2.02	0.41
8:BI:153:LEU:HD12	8:BI:153:LEU:HA	1.89	0.41
8:BM:279:GLU:HG3	14:Bd:238:ARG:HH11	1.85	0.41
6:BN:272:ILE:HD12	42:F:512:LEU:HD13	2.01	0.41
19:BO:211:ARG:NH1	54:T:267:GLU:HG2	2.29	0.41
20:BT:23:ASP:OD1	33:Cq:13:ARG:NH2	2.54	0.41
20:BT:44:ARG:HE	20:BT:44:ARG:HB2	1.75	0.41
14:Bc:296:ASN:H	8:CK:221:ARG:HH22	1.66	0.41
23:Bf:84:PHE:CD2	9:GB:77:ARG:HG3	2.56	0.41
21:Bk:324:GLU:OE2	9:KL:276:ARG:NH1	2.54	0.41
29:C1:391:PRO:HA	29:C1:394:VAL:HG12	2.01	0.41
28:C2:375:THR:HB	28:C2:445:LEU:HD13	2.01	0.41
9:CB:117:LEU:HG	9:CB:154:LYS:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:68:VAL:HG12	8:CC:93:ILE:HB	2.02	0.41
8:CE:245:ASP:OD1	8:CE:245:ASP:N	2.41	0.41
9:CH:164:MET:HE2	9:CH:164:MET:HB2	1.94	0.41
9:CH:406:MET:HE3	9:CH:406:MET:HB3	1.79	0.41
9:CJ:14:ASN:OD1	9:CJ:73:MET:HE1	2.21	0.41
8:CM:360:PRO:HG3	8:CM:374:ALA:HB2	2.00	0.41
2:CT:51:GLN:HG3	2:CT:71:LEU:HG	2.03	0.41
2:CZ:77:LEU:HD21	2:CZ:145:ILE:HG21	2.01	0.41
2:Ca:37:ALA:HB2	2:Ca:57:HIS:HD2	1.86	0.41
2:Cf:40:LYS:HE2	2:Cf:40:LYS:HB2	1.84	0.41
2:Cj:62:THR:HG23	2:Cj:65:ARG:HH22	1.85	0.41
32:Cn:396:SER:O	32:Cn:396:SER:OG	2.31	0.41
32:Cp:115:CYS:O	32:Cp:119:ARG:HG2	2.21	0.41
33:Cq:14:LEU:HD12	33:Cq:14:LEU:HA	1.89	0.41
33:Cq:208:VAL:HG13	33:Cr:331:ARG:NH1	2.35	0.41
33:Ct:61:ARG:HG3	33:Ct:190:LEU:HD11	2.02	0.41
33:Cv:355:LYS:HD2	33:Cx:45:LEU:HD13	2.02	0.41
29:Cz:232:MET:HE3	29:Cz:331:LEU:HD23	2.02	0.41
29:D0:386:MET:HE2	29:D0:386:MET:HA	2.03	0.41
29:D1:318:ILE:O	29:D1:322:GLU:HG2	2.20	0.41
29:D1:394:VAL:HA	29:D2:280:ILE:HD11	2.01	0.41
29:D3:430:LEU:HD23	29:D3:430:LEU:HA	1.89	0.41
8:DA:5:ILE:HG22	8:DA:135:PHE:HA	2.02	0.41
8:DC:121:ARG:HD3	8:DC:121:ARG:HA	1.77	0.41
8:DC:162:GLY:O	8:DC:163:LYS:HD3	2.21	0.41
9:DD:265:PHE:HB3	9:DD:374:ILE:HG21	2.02	0.41
9:DF:253:LEU:HA	9:DF:253:LEU:HD23	1.82	0.41
8:DG:278:ALA:HA	8:DG:369:ALA:HB2	2.02	0.41
9:DH:181:GLU:HA	9:DH:184:ASN:HD22	1.85	0.41
9:DL:4:ILE:HD11	9:DL:134:GLN:HB2	2.02	0.41
9:DL:157:GLU:H	9:DL:157:GLU:HG2	1.59	0.41
8:DM:251:ASP:H	8:DM:254:GLU:HB2	1.85	0.41
9:DN:62:ARG:HG3	9:DN:123:GLU:OE1	2.19	0.41
9:DN:219:THR:O	9:DN:219:THR:OG1	2.26	0.41
9:EB:31:ASP:OD1	9:EB:35:THR:N	2.53	0.41
9:ED:66:VAL:HA	9:ED:91:VAL:HG23	2.02	0.41
8:EE:286:LEU:O	8:EE:373:ARG:NH2	2.53	0.41
9:EF:252:LYS:HG2	9:EF:350:LYS:HE3	2.02	0.41
9:EH:100:ASN:ND2	9:EH:103:LYS:HB2	2.35	0.41
9:EH:331:LEU:HB2	8:EI:177:VAL:HG11	2.02	0.41
8:EI:204:VAL:HG22	8:EI:302:MET:HE1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EK:88:HIS:CG	8:EK:92:LEU:HG	2.55	0.41
8:EK:224:TYR:HE1	67:EK:501:GTP:C5	2.38	0.41
8:EK:229:ARG:HG2	8:EK:229:ARG:H	1.67	0.41
8:EK:434:GLU:OE2	8:EK:434:GLU:N	2.47	0.41
8:EM:202:PHE:HE2	8:EM:378:LEU:HD22	1.84	0.41
29:EO:204:ARG:HG2	29:EO:464:THR:HG23	2.02	0.41
44:EU:159:ARG:NH2	44:EU:170:ASP:OD2	2.52	0.41
44:EY:159:ARG:HH21	44:EY:162:ARG:CZ	2.33	0.41
44:EY:286:LEU:HD23	44:EY:286:LEU:HA	1.84	0.41
42:F:332:PRO:HA	42:F:333:PRO:HD3	1.85	0.41
42:F:473:VAL:HG23	9:IJ:322:SER:HB2	2.03	0.41
28:F6:274:LEU:HD12	28:F6:274:LEU:HA	1.90	0.41
8:FG:90:GLU:OE1	8:FG:121:ARG:NE	2.53	0.41
8:FI:317:MET:HE2	8:FI:317:MET:HB3	1.74	0.41
9:FL:7:LEU:HD12	9:FL:7:LEU:HA	1.85	0.41
9:FL:257:MET:SD	9:FL:314:ALA:HB2	2.60	0.41
9:GB:180:VAL:HG22	9:GB:183:TYR:HB2	2.03	0.41
9:GF:139:LEU:HD12	9:GF:170:VAL:HG12	2.02	0.41
9:GF:178:THR:HB	9:GF:181:GLU:HG3	2.02	0.41
8:GG:348:PRO:HG2	9:GH:384:GLN:HG2	2.02	0.41
9:GH:161:ASP:OD1	9:GH:162:ARG:NE	2.52	0.41
9:GJ:184:ASN:OD1	9:GJ:398:TYR:OH	2.37	0.41
9:GJ:393:ALA:O	9:GJ:395:LEU:N	2.54	0.41
9:GL:206:ALA:HB2	9:GL:302:ALA:HB2	2.01	0.41
8:GM:337:THR:O	8:GM:339:ARG:NH1	2.53	0.41
9:HB:6:HIS:NE2	9:HB:8:GLN:OE1	2.54	0.41
9:HF:252:LYS:HE2	8:HG:101:ASN:OD1	2.20	0.41
9:HL:73:MET:HE2	9:HL:90:PHE:CD2	2.55	0.41
9:HN:415:MET:HE3	9:HN:415:MET:HA	2.03	0.41
8:HO:1:MET:HB3	8:HO:2:ARG:NH1	2.35	0.41
9:IB:165:ASN:OD1	9:IB:198:GLU:HG3	2.21	0.41
9:IH:212:PHE:HZ	64:ke:110:LYS:HA	1.84	0.41
8:II:265:ILE:HG23	8:II:432:TYR:CZ	2.55	0.41
9:IL:294:PHE:HE2	9:IL:330:MET:HE1	1.85	0.41
8:IO:304:LYS:HA	8:IO:304:LYS:HD3	1.85	0.41
8:JC:112:LYS:HE2	8:JC:112:LYS:HB2	1.81	0.41
9:JD:119:VAL:O	9:JD:123:GLU:HG3	2.20	0.41
9:JD:274:THR:HG21	9:JD:282:ARG:NE	2.35	0.41
9:JJ:1:MET:HE1	8:JK:96:LYS:HG3	2.02	0.41
9:JJ:263:LEU:HD21	9:JJ:421:GLU:OE1	2.20	0.41
9:JJ:306:ARG:H	9:JJ:306:ARG:HG3	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JJ:360:GLY:H	1:V:85:GLU:HG3	1.85	0.41
8:JM:154:MET:HE2	8:JM:168:GLU:OE1	2.20	0.41
8:KC:79:ARG:NH2	8:KC:94:THR:OG1	2.51	0.41
9:KH:194:GLU:N	9:KH:194:GLU:OE2	2.53	0.41
9:KH:205:GLU:HA	9:KH:208:TYR:CD2	2.56	0.41
9:KJ:178:THR:HB	9:KJ:181:GLU:HB2	2.03	0.41
9:KN:3:GLU:N	9:KN:3:GLU:OE1	2.53	0.41
9:LB:73:MET:HE2	9:LB:73:MET:HB2	1.83	0.41
9:LB:290:THR:HG21	9:LB:329:GLN:HB3	2.02	0.41
8:LG:415:GLU:H	8:LG:415:GLU:HG2	1.46	0.41
9:LH:311:LEU:HD23	9:LH:342:VAL:HG11	2.01	0.41
9:LH:406:MET:HE3	9:LH:406:MET:HB3	1.87	0.41
9:LN:95:SER:OG	9:LN:108:GLU:OE1	2.29	0.41
8:MC:163:LYS:HD3	8:MC:163:LYS:HA	1.90	0.41
9:MD:388:MET:HE3	9:MD:388:MET:HB2	1.96	0.41
8:MI:355:ILE:HD13	8:MI:355:ILE:HA	1.92	0.41
9:N0:148:GLY:O	9:N0:152:ILE:HG12	2.20	0.41
9:N0:210:ILE:HD12	9:N0:210:ILE:HA	1.88	0.41
9:N0:268:PRO:HG2	9:N0:300:MET:HB2	2.02	0.41
8:NG:121:ARG:HD2	8:NG:121:ARG:HA	1.75	0.41
8:NG:396:ASP:OD1	8:NG:396:ASP:N	2.46	0.41
9:NL:213:ARG:HH21	9:NL:297:LYS:HE3	1.84	0.41
9:OB:174:LYS:HA	9:OB:174:LYS:HD3	1.88	0.41
8:OE:235:VAL:O	8:OE:238:ILE:HG22	2.20	0.41
9:OH:7:LEU:HB3	9:OH:135:LEU:HD13	2.03	0.41
9:OH:19:LYS:HB3	9:OH:19:LYS:HE3	1.72	0.41
8:OI:80:THR:HA	8:OI:84:ARG:HE	1.85	0.41
8:OI:426:ALA:HA	8:OI:429:GLU:CD	2.45	0.41
8:PA:55:GLU:O	8:QA:285:GLN:OE1	2.39	0.41
8:PE:152:LEU:HD12	8:PE:152:LEU:HA	1.93	0.41
8:PE:172:TYR:CD1	8:PE:203:MET:HE1	2.55	0.41
8:PE:254:GLU:OE1	8:PE:258:ASN:ND2	2.51	0.41
9:PL:367:PHE:O	9:PL:368:ILE:HD13	2.21	0.41
8:QC:262:TYR:OH	9:QD:391:ARG:O	2.37	0.41
9:QD:291:GLN:HE22	9:QD:292:GLN:HG2	1.85	0.41
8:QG:339:ARG:NH2	8:QG:342:GLN:OE1	2.53	0.41
8:QG:349:THR:HB	9:QH:176:SER:HB2	2.02	0.41
9:QH:4:ILE:HD13	9:QH:50:TYR:HE1	1.83	0.41
9:QH:4:ILE:HG23	9:QH:132:GLY:O	2.19	0.41
8:QK:88:HIS:CE1	8:RK:280:LYS:HD2	2.54	0.41
8:QK:307:PRO:HB3	8:QK:381:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QM:276:ILE:HD12	8:QM:276:ILE:HA	1.85	0.41
54:R:136:ARG:HA	54:R:139:LEU:HD23	2.03	0.41
8:RA:164:LYS:HD2	8:RA:165:SER:H	1.85	0.41
9:RB:256:ASN:HD22	9:RB:350:LYS:HB2	1.86	0.41
8:RE:15:GLN:HB3	8:RE:228:ASN:HD21	1.84	0.41
9:RF:6:HIS:HB3	9:RF:63:ALA:HA	2.02	0.41
9:RF:68:LEU:HD12	9:RF:68:LEU:HA	1.96	0.41
8:RI:259:LEU:HD13	8:RI:316:CYS:SG	2.60	0.41
9:RJ:19:LYS:O	9:RJ:23:VAL:HG12	2.20	0.41
9:RJ:28:HIS:ND1	9:RJ:47:ILE:HG13	2.34	0.41
8:RK:320:ARG:HB3	8:RK:374:ALA:HB3	2.00	0.41
9:RL:150:LEU:O	9:RL:154:LYS:HG3	2.21	0.41
8:RM:298:PRO:HA	8:RM:301:GLN:NE2	2.35	0.41
8:SA:150:ALA:HA	8:SA:153:LEU:HG	2.02	0.41
8:SA:310:GLY:HA3	8:SA:383:ALA:HB2	2.02	0.41
9:SB:117:LEU:HA	9:SB:120:VAL:HG12	2.03	0.41
8:SC:118:VAL:O	8:SC:122:ILE:HG12	2.21	0.41
9:SD:20:PHE:CE2	9:SD:233:MET:HG3	2.55	0.41
9:SD:65:LEU:HD13	9:SD:90:PHE:HE1	1.86	0.41
8:SI:6:SER:OG	8:SI:64:ARG:O	2.31	0.41
8:SM:102:ASN:HA	8:SM:408:TYR:HE1	1.84	0.41
9:TF:309:ARG:N	9:TF:372:THR:OG1	2.47	0.41
9:TH:375:GLN:HA	9:TH:378:PHE:CE1	2.56	0.41
9:TJ:270:PHE:CD2	9:TJ:273:LEU:HD21	2.56	0.41
8:TM:438:ASP:OD1	8:TM:438:ASP:N	2.51	0.41
9:UB:61:PRO:HD3	9:UB:84:ILE:HG12	2.01	0.41
8:UC:166:LYS:N	8:UC:199:ASP:OD2	2.48	0.41
9:VB:8:GLN:HE22	9:VB:17:GLY:HA3	1.85	0.41
9:VF:48:ASN:O	9:VF:62:ARG:NH1	2.54	0.41
9:VF:251:ARG:O	9:VF:255:VAL:HG13	2.20	0.41
8:VI:139:HIS:ND1	8:VI:146:GLY:O	2.52	0.41
8:VI:328:VAL:HG12	8:VI:332:ILE:HD11	2.03	0.41
9:VJ:139:LEU:HD23	9:VJ:168:SER:HB3	2.03	0.41
8:VM:296:PHE:CE1	8:VM:377:MET:HE1	2.55	0.41
8:WC:317:MET:N	8:WC:352:LYS:O	2.50	0.41
9:WD:73:MET:HE3	9:WD:73:MET:HB3	1.81	0.41
9:WF:375:GLN:HB3	9:WF:379:LYS:NZ	2.35	0.41
8:WI:119:LEU:HD23	8:WI:119:LEU:HA	1.80	0.41
8:WM:166:LYS:N	8:WM:199:ASP:OD2	2.43	0.41
47:X:135:GLU:HG2	47:X:145:GLN:OE1	2.21	0.41
56:XH:172:TYR:HD2	56:XH:177:LEU:HD12	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:XJ:105:ALA:HB2	56:XJ:121:MET:HE3	2.02	0.41
56:XL:90:GLU:OE2	56:XL:102:ARG:HD2	2.19	0.41
56:XM:103:PHE:HD1	56:XM:119:CYS:HB2	1.85	0.41
47:Y:30:THR:HG22	47:Y:31:LEU:HD23	2.02	0.41
47:Y:233:LYS:HD2	47:Y:233:LYS:HA	1.84	0.41
60:e:444:VAL:HG21	60:e:481:THR:HG21	2.03	0.41
61:h:66:LEU:O	61:h:70:ARG:HG3	2.20	0.41
65:s:88:LYS:HA	65:s:88:LYS:HD3	1.89	0.41
2:0G:27:ILE:HD13	2:0G:27:ILE:HA	1.85	0.41
7:A1:54:ARG:N	9:PJ:295:ASP:OD1	2.46	0.41
7:A9:47:ARG:HG2	7:A9:47:ARG:HH11	1.85	0.41
8:AA:88:HIS:HB3	8:AA:91:GLN:HG2	2.01	0.41
9:AB:117:LEU:HD23	9:AB:117:LEU:HA	1.90	0.41
9:AD:309:ARG:O	9:AD:372:THR:OG1	2.35	0.41
8:AE:26:LEU:HD12	8:AE:363:VAL:HG12	2.02	0.41
8:AE:70:LEU:HD22	8:AE:110:ILE:HG13	2.02	0.41
9:AF:134:GLN:HG2	9:AF:167:PHE:CE1	2.55	0.41
9:AF:271:ALA:HB1	9:AF:289:LEU:HG	2.02	0.41
8:AK:196:GLU:OE2	8:AK:197:HIS:NE2	2.54	0.41
9:AL:25:SER:HB2	9:AL:81:PHE:HE2	1.85	0.41
11:AT:87:MET:O	11:AT:91:ILE:HG12	2.20	0.41
12:AW:161:MET:HE2	12:AW:161:MET:HB3	1.80	0.41
13:Ab:594:VAL:HA	13:Ab:595:PRO:HD2	1.88	0.41
7:Au:216:PRO:HD3	8:FM:161:TYR:CE1	2.55	0.41
7:Au:234:PRO:HB3	9:FL:126:SER:HA	2.01	0.41
7:Av:166:ARG:HD3	7:Av:166:ARG:HA	1.74	0.41
16:Ax:114:MET:HE2	16:Ax:114:MET:HB3	1.95	0.41
16:Ax:132:ARG:NH2	9:ED:111:GLU:HB2	2.35	0.41
16:Ax:151:GLY:H	16:Ax:154:ALA:HB3	1.85	0.41
18:B5:125:LYS:HG2	18:B5:127:ILE:HG23	2.01	0.41
18:B6:203:LEU:HD23	18:B6:203:LEU:HA	1.88	0.41
8:BA:252:LEU:HD23	8:BA:252:LEU:HA	1.87	0.41
8:BC:103:TYR:CD1	8:BC:189:LEU:HB3	2.56	0.41
9:BD:19:LYS:HD2	9:BD:226:ASN:HB2	2.01	0.41
9:BD:194:GLU:H	9:BD:194:GLU:HG2	1.68	0.41
8:BG:209:ILE:HG22	8:BG:227:LEU:HD22	2.02	0.41
9:BJ:403:MET:HE3	9:BJ:407:GLU:OE1	2.20	0.41
8:BK:79:ARG:NH2	8:BK:92:LEU:O	2.44	0.41
8:BM:292:THR:HG21	8:BM:331:ALA:HB1	2.03	0.41
19:BP:25:THR:HG21	19:BQ:346:LEU:HD13	2.02	0.41
19:BP:111:LEU:CD2	19:BP:113:MET:HE2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BR:402:GLN:HE22	19:BR:408:GLN:HA	1.85	0.41
20:BT:51:THR:O	20:BT:54:LYS:HB3	2.20	0.41
25:Bm:138:UNK:HA	9:RF:356:ILE:HD12	2.03	0.41
18:Bz:78:LYS:HD3	18:Bz:78:LYS:HA	1.83	0.41
18:Bz:88:LYS:HA	18:Bz:89:PRO:HD3	1.94	0.41
28:C3:146:LEU:HD23	28:C3:146:LEU:HA	1.92	0.41
28:C5:400:LEU:HG	28:C5:420:LEU:HB3	2.03	0.41
8:CA:187:SER:O	8:CA:191:THR:HG23	2.20	0.41
8:CA:381:THR:HG23	8:CA:383:ALA:H	1.85	0.41
9:CB:311:LEU:CD2	9:CB:342:VAL:HG11	2.51	0.41
8:CE:399:TYR:HE1	8:CE:418:PHE:HD2	1.68	0.41
8:CG:318:LEU:HB2	8:CG:376:CYS:HB2	2.02	0.41
8:CI:324:VAL:HA	8:CI:325:PRO:HD3	1.95	0.41
8:CM:334:THR:O	8:CM:338:LYS:NZ	2.52	0.41
14:CN:23:PHE:CE2	9:DB:53:GLU:HG3	2.55	0.41
2:CY:45:SER:HB2	2:CY:110:ASP:HA	2.02	0.41
2:CY:88:HIS:CD2	2:CY:90:GLY:H	2.39	0.41
2:Ca:40:LYS:HA	2:Ca:40:LYS:HD2	1.77	0.41
2:Cd:41:ILE:HG13	2:Cd:42:ARG:H	1.85	0.41
2:Ci:98:LEU:HG	2:Ci:102:LYS:NZ	2.35	0.41
2:Ck:149:MET:O	2:Ck:153:VAL:HG12	2.20	0.41
31:Cl:331:VAL:HG11	31:Cl:339:ILE:CD1	2.50	0.41
33:Cq:311:LEU:HA	33:Cq:345:LEU:HD13	2.02	0.41
33:Ct:114:ILE:O	33:Ct:118:THR:HG23	2.21	0.41
33:Ct:185:ILE:HG13	43:E3:137:VAL:HG21	2.02	0.41
33:Cw:268:ARG:HG3	33:Cw:272:MET:HE2	2.02	0.41
29:Cz:229:GLN:HG3	29:Cz:233:ARG:HH12	1.86	0.41
29:D4:172:SER:O	29:D4:176:ILE:HG22	2.20	0.41
29:D4:368:LEU:HD21	29:D4:451:LYS:HZ2	1.85	0.41
29:D5:469:LYS:HA	29:D5:469:LYS:HD3	1.90	0.41
9:DB:91:VAL:HG21	9:DB:116:VAL:HG12	2.02	0.41
9:DB:314:ALA:HB3	9:DB:368:ILE:HB	2.03	0.41
9:DJ:100:ASN:ND2	9:DJ:103:LYS:HG2	2.35	0.41
9:DL:375:GLN:HE21	9:DL:419:VAL:HG22	1.85	0.41
9:DN:30:ILE:HG22	9:DN:36:TYR:HA	2.01	0.41
28:DO:133:GLN:OE1	29:DQ:157:SER:OG	2.21	0.41
29:DR:360:LEU:HD12	29:DR:360:LEU:HA	1.89	0.41
29:DS:470:GLU:O	29:DS:473:MET:HE3	2.20	0.41
29:DT:441:ARG:HH11	29:DT:441:ARG:HG2	1.86	0.41
29:DW:436:ARG:HA	29:DW:436:ARG:HD2	1.75	0.41
36:Db:153:SER:HB2	36:Db:156:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Db:162:LYS:HA	36:Db:162:LYS:HD2	1.83	0.41
39:Dk:36:ARG:HA	8:LI:440:VAL:HG11	2.02	0.41
43:E4:169:ARG:O	28:F6:121:ARG:NH1	2.54	0.41
8:EE:304:LYS:HD2	8:EE:304:LYS:HA	1.81	0.41
9:EF:405:GLU:HG2	9:EF:406:MET:HE2	2.02	0.41
8:EG:188:ILE:HG13	8:EG:395:LEU:HD13	2.01	0.41
9:EH:314:ALA:N	9:EH:368:ILE:O	2.42	0.41
8:EI:98:ASP:OD1	8:EI:99:ALA:N	2.54	0.41
8:EI:145:THR:OG1	67:EI:501:GTP:O1B	2.34	0.41
8:EI:392:ASP:OD2	8:EI:422:ARG:NH2	2.53	0.41
9:EJ:372:THR:HG21	9:EJ:426:GLN:HG2	2.02	0.41
8:EK:209:ILE:HG23	8:EK:302:MET:HE1	2.03	0.41
29:EP:447:LEU:HD12	29:EP:447:LEU:HA	1.90	0.41
44:ET:246:LYS:HB3	44:ET:246:LYS:HE3	1.94	0.41
44:EX:402:LEU:O	44:EX:406:GLU:HG2	2.19	0.41
8:FC:125:LEU:HD23	8:FC:125:LEU:HA	1.91	0.41
8:FE:157:LEU:HD23	8:FE:157:LEU:HA	1.92	0.41
9:FF:336:LYS:HE3	9:FF:336:LYS:HB2	1.86	0.41
9:FH:118:ASP:HA	9:FH:121:ARG:HD2	2.02	0.41
9:FJ:105:HIS:HD2	9:FJ:150:LEU:HB2	1.84	0.41
8:FM:54:SER:HB2	8:FM:62:VAL:HG13	2.02	0.41
9:FN:324:LYS:HA	9:FN:324:LYS:HD3	1.78	0.41
8:GC:274:PRO:HB2	8:GC:371:VAL:HG21	2.02	0.41
8:GE:90:GLU:OE1	8:GE:121:ARG:NH1	2.43	0.41
9:GJ:174:LYS:HB2	9:GJ:174:LYS:HE2	1.92	0.41
8:GK:52:PHE:CZ	8:GK:239:THR:HG21	2.56	0.41
9:GL:374:ILE:HG22	9:GL:422:TYR:CE2	2.56	0.41
8:GM:211:ASP:OD2	8:GM:214:ARG:NH2	2.54	0.41
8:GM:408:TYR:HB3	8:GM:413:MET:HE3	2.00	0.41
9:HB:272:PRO:HG3	9:HB:364:SER:HA	2.02	0.41
9:HF:171:PRO:HG3	9:HF:181:GLU:HG2	2.03	0.41
9:HJ:154:LYS:HA	9:HJ:154:LYS:HD3	1.88	0.41
8:HK:103:TYR:CZ	8:HK:189:LEU:HD13	2.56	0.41
8:IC:26:LEU:HD12	8:IC:363:VAL:HG12	2.02	0.41
8:IC:103:TYR:CE2	8:IC:148:GLY:HA2	2.56	0.41
8:IE:118:VAL:HG11	8:IE:149:PHE:HZ	1.86	0.41
8:IK:432:TYR:O	8:IK:435:VAL:HG12	2.20	0.41
9:IL:193:VAL:HG11	9:IL:262:ARG:HE	1.85	0.41
9:IL:273:LEU:HD12	9:IL:298:ASN:HD21	1.86	0.41
9:IL:372:THR:HG21	9:IL:426:GLN:HG3	2.03	0.41
8:JC:157:LEU:HD23	8:JC:157:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JE:153:LEU:HD23	8:JE:153:LEU:HA	1.92	0.41
9:JF:67:ASP:HA	9:JF:143:THR:HG21	2.02	0.41
9:JH:246:LEU:HD11	67:JI:501:GTP:H5"	2.03	0.41
8:JI:163:LYS:HB3	8:JI:163:LYS:HE3	1.89	0.41
8:JI:206:ASN:OD1	67:JI:501:GTP:N2	2.41	0.41
8:JI:394:LYS:HE3	8:JI:394:LYS:HB3	1.92	0.41
9:JJ:337:ASN:HB2	9:JJ:340:TYR:CD2	2.55	0.41
8:JK:73:THR:O	8:JK:73:THR:OG1	2.35	0.41
9:JL:3:GLU:HG2	9:JL:127:CYS:HB2	2.01	0.41
9:JL:233:MET:HE2	9:JL:233:MET:HB3	1.98	0.41
8:JM:155:GLU:OE1	8:JM:197:HIS:NE2	2.46	0.41
8:JM:258:ASN:HD21	9:JN:178:THR:HG23	1.84	0.41
9:KB:347:ASN:ND2	8:KC:178:SER:OG	2.54	0.41
9:KD:155:ILE:HG21	9:KD:164:MET:HE1	2.02	0.41
8:KE:98:ASP:OD1	8:KE:100:ALA:N	2.53	0.41
9:KF:139:LEU:HA	9:KF:145:SER:HB2	2.02	0.41
8:KI:113:GLU:N	8:KI:113:GLU:OE1	2.53	0.41
8:KK:391:LEU:HD12	8:KK:391:LEU:HA	1.92	0.41
9:KL:67:ASP:OD1	9:KL:69:GLU:N	2.45	0.41
9:LB:124:ALA:HB1	9:LB:130:LEU:HD22	2.03	0.41
9:LD:236:VAL:HG22	9:LD:368:ILE:HD11	2.02	0.41
9:LD:344:TRP:CD1	9:LD:344:TRP:H	2.38	0.41
9:LF:198:GLU:OE1	9:LF:254:ALA:HA	2.20	0.41
8:LG:188:ILE:HD13	8:LG:425:LEU:HD23	2.02	0.41
9:LL:207:LEU:HB3	9:LL:225:LEU:HD22	2.02	0.41
9:MB:163:ILE:HD13	9:MB:163:ILE:HA	1.93	0.41
8:MC:103:TYR:HB2	8:MC:186:ASN:HB3	2.01	0.41
8:MC:317:MET:HE2	8:MC:317:MET:HB3	1.89	0.41
9:MF:262:ARG:HG3	54:R:217:TYR:CD2	2.55	0.41
9:ML:198:GLU:HG2	9:ML:266:PHE:HE2	1.86	0.41
8:MM:251:ASP:H	8:MM:254:GLU:CB	2.33	0.41
9:N0:273:LEU:O	9:N0:292:GLN:NE2	2.47	0.41
9:ND:287:PRO:HG3	9:ND:329:GLN:HE21	1.85	0.41
8:NI:5:ILE:HD13	8:NI:5:ILE:HA	1.86	0.41
8:NI:203:MET:HE2	8:NI:203:MET:HA	2.03	0.41
8:NI:241:SER:OG	8:NI:250:VAL:N	2.46	0.41
8:NI:276:ILE:HG13	8:NI:369:ALA:HB3	2.02	0.41
9:NL:213:ARG:NH2	9:NL:297:LYS:HE3	2.35	0.41
9:O0:161:ASP:OD2	9:O0:162:ARG:NH2	2.54	0.41
9:OF:21:TRP:CZ3	9:OF:61:PRO:HB3	2.55	0.41
9:OF:406:MET:O	9:OF:410:GLU:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OJ:221:THR:OG1	9:OJ:222:TYR:N	2.53	0.41
9:OJ:299:MET:HE2	9:OJ:299:MET:HA	2.02	0.41
9:OJ:305:PRO:HB3	9:OJ:310:TYR:HE1	1.85	0.41
9:PB:73:MET:HB2	9:PB:92:PHE:CE2	2.55	0.41
9:PB:192:LEU:O	9:PB:196:THR:HG22	2.20	0.41
8:PC:3:GLU:H	8:PC:3:GLU:HG2	1.54	0.41
8:PC:195:LEU:HD23	8:PC:195:LEU:HA	1.94	0.41
9:PD:267:MET:HE3	9:PD:299:MET:HE3	2.01	0.41
9:PD:267:MET:HA	9:PD:268:PRO:HD3	1.61	0.41
8:PG:331:ALA:O	8:PG:335:ILE:HG12	2.20	0.41
8:PG:337:THR:O	8:PG:337:THR:OG1	2.33	0.41
8:PI:429:GLU:O	8:PI:433:GLU:HG2	2.19	0.41
9:PJ:270:PHE:HB3	9:PJ:273:LEU:HD11	2.02	0.41
9:PL:344:TRP:HZ3	8:PM:403:ALA:HB2	1.85	0.41
9:QB:324:LYS:N	8:QC:210:TYR:OH	2.53	0.41
8:QC:202:PHE:CE1	8:QC:378:LEU:HD12	2.55	0.41
9:QF:250:LEU:HA	9:QF:253:LEU:HD12	2.03	0.41
8:QG:209:ILE:HB	8:QG:227:LEU:HD23	2.02	0.41
9:QH:207:LEU:HB3	9:QH:225:LEU:HG	2.02	0.41
9:QH:270:PHE:O	9:QH:298:ASN:ND2	2.53	0.41
8:QI:248:LEU:HD23	8:QI:248:LEU:HA	1.88	0.41
9:QJ:31:ASP:OD1	9:QJ:35:THR:N	2.51	0.41
8:QK:338:LYS:O	8:QK:341:ILE:HG22	2.19	0.41
8:QM:160:ASP:OD1	8:QM:161:TYR:N	2.53	0.41
8:RA:64:ARG:NH1	8:RA:129:CYS:SG	2.85	0.41
9:RB:240:LEU:HD13	9:RB:249:ASP:HB3	2.03	0.41
8:RC:151:SER:HB3	8:RC:193:THR:HG21	2.03	0.41
8:RC:304:LYS:HD3	8:RC:304:LYS:HA	1.74	0.41
9:RF:154:LYS:HE2	9:RF:154:LYS:HB2	1.83	0.41
8:RG:51:THR:HG21	8:RG:243:ARG:HD3	2.02	0.41
8:RI:66:VAL:HG11	8:RI:121:ARG:HG2	2.02	0.41
8:SA:258:ASN:HB3	9:SB:179:VAL:HG22	2.01	0.41
8:SE:153:LEU:HD12	8:SE:153:LEU:HA	1.91	0.41
8:SE:234:ILE:HD11	8:SE:272:TYR:HB2	2.01	0.41
9:SH:273:LEU:HD23	9:SH:273:LEU:HA	1.89	0.41
9:SJ:222:TYR:O	9:SJ:226:ASN:ND2	2.53	0.41
8:SK:163:LYS:HB3	8:SK:163:LYS:HE3	1.88	0.41
8:SK:289:ALA:HA	8:SK:331:ALA:HB2	2.01	0.41
9:SL:219:THR:O	9:SL:219:THR:OG1	2.32	0.41
8:TC:247:ALA:HB3	8:TC:355:ILE:HB	2.02	0.41
8:TC:328:VAL:HG21	8:TC:355:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TD:271:ALA:HB2	9:TD:293:MET:HG3	2.01	0.41
9:TD:324:LYS:HG3	8:TE:222:PRO:HD2	2.02	0.41
9:TD:342:VAL:HB	9:TD:344:TRP:CD1	2.56	0.41
8:TG:109:THR:OG1	8:TG:110:ILE:N	2.53	0.41
9:TJ:345:ILE:HG23	8:TK:398:MET:HE2	2.01	0.41
8:TK:245:ASP:OD2	8:TK:245:ASP:N	2.53	0.41
8:UC:224:TYR:HE2	67:UC:501:GTP:C5	2.39	0.41
9:UD:249:ASP:O	9:UD:252:LYS:HB2	2.21	0.41
9:UH:65:LEU:HD22	9:UH:90:PHE:HE1	1.86	0.41
8:UK:260:VAL:HA	8:UK:261:PRO:HD3	1.89	0.41
8:VE:200:CYS:HB3	8:VE:202:PHE:HE1	1.85	0.41
8:VG:96:LYS:HD2	8:VG:96:LYS:HA	1.91	0.41
9:VH:130:LEU:HB3	9:VH:162:ARG:HH21	1.86	0.41
8:VI:134:GLY:HA3	8:VI:165:SER:HB2	2.02	0.41
8:VI:265:ILE:HD11	8:VI:435:VAL:HG21	2.03	0.41
9:VJ:22:GLU:HA	9:VJ:81:PHE:CD2	2.55	0.41
9:VJ:245:GLN:HE21	9:VJ:245:GLN:HB2	1.55	0.41
8:VK:203:MET:HE2	8:VK:267:PHE:CD1	2.55	0.41
8:VK:238:ILE:HD12	8:VK:238:ILE:HA	1.94	0.41
8:VM:288:VAL:O	8:VM:292:THR:OG1	2.33	0.41
9:VN:379:LYS:HE2	9:VN:419:VAL:HG21	2.03	0.41
8:WC:211:ASP:O	8:WC:215:ARG:HG2	2.20	0.41
9:WF:64:VAL:HG21	9:WF:120:VAL:HG22	2.02	0.41
8:WG:27:GLU:OE1	8:WG:243:ARG:NH2	2.53	0.41
8:WI:352:LYS:HD2	8:WI:353:VAL:H	1.85	0.41
9:WJ:152:ILE:HG22	9:WJ:195:ASN:HB2	2.03	0.41
8:WK:326:LYS:HD3	9:WL:219:THR:HA	2.02	0.41
9:WN:165:ASN:ND2	9:WN:250:LEU:HD13	2.35	0.41
56:XI:75:PHE:O	56:XI:168:SER:N	2.52	0.41
56:XJ:22:LEU:HD22	56:XJ:25:TRP:HB2	2.02	0.41
59:b:324:LYS:HB2	59:b:324:LYS:HE2	1.88	0.41
59:d:330:GLN:HA	59:d:333:LEU:HG	2.03	0.41
59:d:512:ILE:HD13	59:d:512:ILE:HA	1.93	0.41
60:f:369:GLU:OE1	60:f:372:ARG:NH2	2.53	0.41
60:f:555:ASP:OD2	60:f:598:ILE:N	2.54	0.41
63:k:39:LYS:HE3	63:k:39:LYS:HB3	1.81	0.41
64:ke:73:TYR:HD2	64:ke:76:GLU:HG3	1.85	0.41
66:u:273:LEU:HB3	66:u:275:PHE:CE2	2.55	0.41
66:w:354:TRP:CZ3	66:w:359:GLY:HA3	2.55	0.41
66:w:387:GLU:H	66:w:387:GLU:HG2	1.59	0.41
3:x:71:HIS:CE1	3:x:118:GLN:HG2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:y:1406:LYS:HE2	4:y:1447:THR:O	2.21	0.41
2:0g:6:LYS:HE3	2:0g:6:LYS:HB3	1.71	0.41
3:2:124:ARG:NH2	9:ID:400:GLY:O	2.54	0.41
7:A1:123:SER:OG	7:A1:124:ILE:N	2.54	0.41
7:A1:180:PRO:HG3	8:OC:160:ASP:OD1	2.21	0.41
7:A7:72:VAL:HG12	8:RI:116:ASP:CG	2.46	0.41
9:AB:27:GLU:OE1	9:AB:241:ARG:NH1	2.43	0.41
9:AD:170:VAL:N	9:AD:202:ILE:O	2.48	0.41
8:AE:328:VAL:HG11	8:AE:353:VAL:HG21	2.02	0.41
9:AF:22:GLU:HG3	9:AF:81:PHE:HB2	2.02	0.41
9:AF:87:PRO:HA	9:AF:90:PHE:HD2	1.86	0.41
10:AQ:5:TYR:O	9:KL:174:LYS:NZ	2.34	0.41
12:AV:91:LYS:HG3	12:AV:164:LEU:HD21	2.03	0.41
12:AW:251:SER:OG	12:AW:252:GLU:OE2	2.39	0.41
13:Ac:248:ILE:HG22	13:Ac:265:LEU:HB3	2.03	0.41
13:Ac:336:LYS:N	13:Ac:336:LYS:HD2	2.36	0.41
13:Ac:468:LYS:N	9:EF:78:SER:OG	2.54	0.41
13:Ad:344:ASP:OD1	13:Ad:344:ASP:N	2.53	0.41
15:Ap:122:ARG:HA	15:Ap:125:TYR:CE2	2.56	0.41
15:Ap:184:ARG:NE	47:I:230:ASP:OD2	2.54	0.41
15:Aq:126:GLN:NE2	32:Co:252:ASP:OD2	2.53	0.41
15:Ar:14:ASN:HB2	20:BS:357:LEU:HD21	2.03	0.41
7:Av:147:VAL:HG11	8:OK:215:ARG:HG3	2.02	0.41
7:Av:211:ASP:OD2	9:NH:95:SER:N	2.49	0.41
7:Aw:16:ARG:HB3	9:NF:106:TYR:HB3	2.03	0.41
18:B5:13:ILE:HG22	60:f:389:GLY:HA3	2.01	0.41
18:B6:123:LYS:HD3	18:B6:123:LYS:HA	1.89	0.41
18:B6:185:LYS:HE2	18:B6:185:LYS:HB2	1.86	0.41
8:BA:390:ARG:H	8:BA:390:ARG:HG2	1.64	0.41
9:BB:133:PHE:O	9:BB:165:ASN:N	2.50	0.41
9:BB:236:VAL:HG22	9:BB:368:ILE:HD11	2.02	0.41
8:BC:66:VAL:HG22	8:BC:91:GLN:HG2	2.02	0.41
9:BD:248:ALA:HB1	9:BD:252:LYS:HB3	2.01	0.41
9:BF:141:GLY:N	69:BF:501:GDP:O1A	2.54	0.41
9:BF:238:THR:HG21	9:BF:318:ARG:HD2	2.02	0.41
9:BJ:121:ARG:O	9:BJ:125:GLU:HG2	2.20	0.41
6:BN:257:MET:HB2	9:IL:306:ARG:NH2	2.36	0.41
19:BO:108:ARG:HH22	39:Dl:130:ARG:HH22	1.69	0.41
21:BV:15:LEU:HD12	21:BV:15:LEU:HA	1.87	0.41
22:BW:22:LYS:HA	22:BW:22:LYS:HD2	1.89	0.41
14:Ba:282:LEU:HB2	14:Ba:305:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Bg:82:TYR:HD2	23:Bg:86:ARG:HH21	1.68	0.41
27:Br:128:LEU:HD23	27:Br:128:LEU:HA	1.89	0.41
27:Bs:269:LYS:HE2	27:Bs:269:LYS:HB2	1.93	0.41
5:C:152:LYS:HE2	5:C:152:LYS:HB3	1.92	0.41
29:C1:354:THR:HG22	29:C1:465:LEU:HD21	2.02	0.41
28:C5:393:LEU:HB2	28:C5:427:VAL:HG11	2.02	0.41
8:CE:276:ILE:HG13	8:CE:280:LYS:HG3	2.01	0.41
8:CG:139:HIS:ND1	8:CG:146:GLY:O	2.54	0.41
8:CI:275:VAL:HG23	8:CI:368:LEU:HD21	2.03	0.41
8:CK:89:PRO:HG2	8:DK:280:LYS:NZ	2.35	0.41
8:CM:169:PHE:CZ	8:CM:235:VAL:HG22	2.55	0.41
2:CX:104:LEU:HD23	2:CX:145:ILE:HG12	2.02	0.41
2:CZ:27:ILE:HG23	2:CZ:135:TYR:HE1	1.86	0.41
2:Ce:54:MET:HE1	2:Ce:64:ARG:HA	2.03	0.41
2:Cj:10:ARG:NH1	2:Cj:14:GLN:HB2	2.36	0.41
32:Cn:130:ASP:OD2	32:Cn:132:VAL:N	2.52	0.41
32:Cp:308:GLY:O	32:Cp:312:VAL:HG23	2.21	0.41
33:Cr:73:ARG:HH12	33:Cr:74:TRP:CG	2.37	0.41
33:Cw:119:LEU:HD21	33:Cw:389:LYS:HB3	2.03	0.41
29:Cz:233:ARG:C	29:Cz:237:GLN:HE21	2.28	0.41
29:Cz:472:CYS:O	29:Cz:476:ARG:HG3	2.20	0.41
34:D:108:THR:O	34:D:108:THR:OG1	2.35	0.41
29:D8:177:LYS:HZ2	29:D8:240:ASP:HB2	1.86	0.41
9:DB:379:LYS:HA	9:DB:379:LYS:HD3	1.78	0.41
8:DG:184:PRO:HD2	8:DG:398:MET:HE1	2.03	0.41
9:DH:318:ARG:HB3	9:DH:358:PRO:HD3	2.03	0.41
9:DH:379:LYS:O	9:DH:383:GLU:HG2	2.21	0.41
8:DK:244:PHE:HB2	8:DK:356:ASN:HD21	1.86	0.41
9:DL:121:ARG:HD3	9:DL:158:GLU:OE1	2.20	0.41
9:DL:297:LYS:HE2	9:DL:297:LYS:HB3	1.82	0.41
8:DM:248:LEU:HD21	69:DN:501:GDP:C8	2.56	0.41
29:DT:47:TYR:OH	63:m:150:GLU:OE1	2.38	0.41
29:DU:165:ARG:H	29:DU:165:ARG:HG2	1.74	0.41
29:DU:228:CYS:HA	29:DU:331:LEU:HD21	2.01	0.41
29:DW:366:LYS:HA	29:DW:366:LYS:HD3	1.88	0.41
29:DX:454:LEU:HD12	29:DX:454:LEU:HA	1.85	0.41
8:EE:243:ARG:HG3	8:EE:244:PHE:CD1	2.56	0.41
9:EH:164:MET:HE2	9:EH:164:MET:HB2	1.85	0.41
9:EL:245:GLN:O	8:EM:11:GLN:NE2	2.53	0.41
9:EL:350:LYS:NZ	9:EL:351:THR:O	2.53	0.41
8:EM:408:TYR:HD2	8:EM:418:PHE:HZ	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EP:124:MET:HA	29:EP:124:MET:HE2	2.02	0.41
29:EQ:212:ASP:OD2	29:EQ:349:ARG:NH2	2.39	0.41
44:ES:398:ALA:HB2	44:ET:77:GLN:HE22	1.86	0.41
44:ET:137:ARG:NH1	44:ET:283:ASP:OD1	2.54	0.41
44:EU:316:HIS:O	44:EU:319:GLU:HG2	2.21	0.41
44:EV:152:VAL:HG21	44:EV:179:GLU:HG2	2.03	0.41
44:EY:315:ARG:HH12	44:EY:420:THR:HG23	1.86	0.41
42:F:737:LYS:HD3	42:F:737:LYS:HA	1.85	0.41
28:F3:176:ASP:OD1	28:F3:177:ILE:N	2.54	0.41
28:F3:480:PHE:HA	28:F3:481:PRO:HD2	1.94	0.41
9:FD:324:LYS:O	9:FD:328:GLU:HG2	2.18	0.41
8:FG:259:LEU:HD11	8:FG:316:CYS:HB2	2.02	0.41
8:FG:406:HIS:HA	8:FG:409:VAL:HG22	2.01	0.41
9:FL:314:ALA:HB3	9:FL:368:ILE:HB	2.01	0.41
9:FN:202:ILE:HD13	9:FN:202:ILE:HA	1.87	0.41
8:GC:186:ASN:OD1	8:GC:408:TYR:OH	2.33	0.41
8:GG:234:ILE:HD11	8:GG:272:TYR:HB2	2.03	0.41
8:GK:190:THR:O	8:GK:194:THR:OG1	2.33	0.41
9:GL:172:SER:OG	9:GL:175:VAL:O	2.30	0.41
8:GM:145:THR:N	67:GM:501:GTP:O2G	2.52	0.41
9:HD:46:ARG:NH2	8:HE:76:ASP:OD2	2.54	0.41
8:HE:26:LEU:HD12	8:HE:26:LEU:HA	1.87	0.41
9:HF:167:PHE:CD1	9:HF:233:MET:HE3	2.55	0.41
9:HF:194:GLU:N	9:HF:194:GLU:OE1	2.53	0.41
8:HG:196:GLU:OE2	8:HG:196:GLU:N	2.49	0.41
8:HI:306:ASP:HA	8:HI:307:PRO:HD3	1.88	0.41
9:HJ:12:CYS:SG	9:HJ:138:SER:HB3	2.61	0.41
9:HJ:73:MET:HA	9:HJ:76:VAL:HB	2.01	0.41
8:HK:288:VAL:HG23	8:HK:373:ARG:HH11	1.85	0.41
9:HN:54:ALA:HA	9:IN:283:ALA:HB2	2.03	0.41
9:IB:267:MET:HE1	9:IB:305:PRO:HG3	2.02	0.41
8:IE:242:LEU:HD11	8:IE:252:LEU:HD21	2.03	0.41
8:IE:319:TYR:HB2	8:IE:355:ILE:HD13	2.03	0.41
8:IE:320:ARG:NE	8:IE:358:GLN:O	2.50	0.41
9:IJ:329:GLN:HA	9:IJ:329:GLN:HE21	1.84	0.41
9:IL:68:LEU:HD23	9:IL:112:LEU:HD22	2.01	0.41
8:JC:190:THR:O	8:JC:194:THR:OG1	2.25	0.41
9:JH:22:GLU:O	9:JH:26:ASP:HB2	2.20	0.41
8:JI:252:LEU:HD23	8:JI:252:LEU:HA	1.93	0.41
8:JI:298:PRO:HB3	8:JI:306:ASP:OD1	2.20	0.41
9:JJ:228:LEU:HD23	9:JJ:228:LEU:HA	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JK:414:GLU:N	8:JK:414:GLU:OE2	2.53	0.41
9:KF:177:ASP:OD1	9:KF:178:THR:HG23	2.21	0.41
8:KG:153:LEU:HA	8:KG:153:LEU:HD12	1.85	0.41
9:KH:20:PHE:HA	9:KH:230:SER:HB2	2.03	0.41
9:KH:207:LEU:HB3	9:KH:225:LEU:HD22	2.02	0.41
8:KI:5:ILE:HG12	8:KI:132:LEU:HD11	2.03	0.41
9:KL:6:HIS:HE2	9:KL:136:THR:HG23	1.86	0.41
9:LF:156:ARG:NH2	9:LF:197:ASP:OD2	2.54	0.41
9:LF:404:ASP:OD1	9:LF:405:GLU:N	2.54	0.41
8:LK:361:THR:OG1	8:LK:362:VAL:N	2.53	0.41
9:LN:228:LEU:HB3	9:LN:300:MET:HE2	2.01	0.41
8:ME:338:LYS:HB3	8:ME:338:LYS:HE2	1.84	0.41
8:MG:228:ASN:OD1	67:MG:501:GTP:N1	2.52	0.41
8:MK:346:TRP:HB3	9:ML:391:ARG:HD3	2.01	0.41
8:NA:138:PHE:HD1	8:NA:169:PHE:HB2	1.84	0.41
9:ND:170:VAL:HG11	9:ND:377:LEU:HD21	2.03	0.41
8:NG:155:GLU:HB3	8:NG:197:HIS:CE1	2.56	0.41
9:NH:11:GLN:HG3	9:NH:72:THR:HG21	2.01	0.41
9:NH:304:ASP:OD1	9:NH:307:HIS:ND1	2.48	0.41
9:OB:105:HIS:CE1	9:OB:150:LEU:HD13	2.56	0.41
9:OD:100:ASN:HB3	9:OD:103:LYS:HB2	2.03	0.41
8:OE:296:PHE:HD2	8:OE:341:ILE:HG13	1.85	0.41
9:OH:324:LYS:HZ1	8:OI:222:PRO:CD	2.34	0.41
9:OJ:117:LEU:HD23	9:OJ:117:LEU:HA	1.89	0.41
9:OJ:121:ARG:HD3	9:OJ:158:GLU:OE1	2.21	0.41
9:OJ:178:THR:HG22	9:OJ:180:VAL:H	1.85	0.41
9:OL:122:LYS:HA	9:OL:122:LYS:HD2	1.89	0.41
9:PB:418:LEU:HA	9:PB:421:GLU:HG2	2.02	0.41
9:PD:334:GLN:HE22	9:PD:347:ASN:HA	1.85	0.41
8:PE:288:VAL:HA	8:PE:291:ILE:HG22	2.01	0.41
8:PG:318:LEU:HD13	8:PG:318:LEU:HA	1.96	0.41
9:PJ:14:ASN:OD1	9:PJ:65:LEU:HD23	2.19	0.41
9:PJ:101:TRP:O	9:PJ:105:HIS:CB	2.67	0.41
9:PJ:270:PHE:HD2	9:PJ:273:LEU:HD21	1.86	0.41
8:PK:158:SER:HB2	8:PK:166:LYS:HZ3	1.85	0.41
8:PK:230:LEU:HD13	8:PK:302:MET:HE1	2.03	0.41
8:PK:306:ASP:HA	8:PK:307:PRO:HD3	1.90	0.41
8:QA:286:LEU:HB3	8:QA:373:ARG:NE	2.26	0.41
9:QB:199:THR:OG1	9:QB:264:HIS:O	2.30	0.41
9:QB:309:ARG:NH1	9:QB:426:GLN:O	2.53	0.41
8:QC:130:THR:OG1	8:QC:131:GLY:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QH:39:ASP:N	9:QH:39:ASP:OD1	2.53	0.41
9:QH:113:VAL:HG21	9:QH:150:LEU:HD23	2.03	0.41
9:QH:170:VAL:HG21	9:QH:377:LEU:HD11	2.01	0.41
8:QK:264:ARG:HD3	8:QK:264:ARG:HA	1.87	0.41
9:QL:8:GLN:HB2	9:QL:65:LEU:HG	2.02	0.41
9:QL:135:LEU:HB2	9:QL:164:MET:HE1	2.02	0.41
9:QL:404:ASP:HB2	9:QL:406:MET:SD	2.60	0.41
8:QM:16:ILE:HD13	8:QM:16:ILE:HG21	1.85	0.41
9:RB:392:LYS:HZ3	9:RB:395:LEU:HB2	1.86	0.41
9:RD:42:LEU:HD23	9:RD:42:LEU:H	1.85	0.41
9:RD:128:ASP:OD1	9:RD:128:ASP:N	2.52	0.41
8:RE:90:GLU:N	8:RE:90:GLU:OE1	2.53	0.41
8:RG:188:ILE:HD13	8:RG:188:ILE:HA	1.86	0.41
8:RG:271:THR:OG1	8:RG:377:MET:HB2	2.21	0.41
8:RI:255:PHE:HB2	8:RI:316:CYS:SG	2.61	0.41
9:RJ:42:LEU:HD12	9:RJ:42:LEU:HA	1.91	0.41
9:RJ:218:THR:OG1	9:RJ:219:THR:N	2.53	0.41
8:RK:188:ILE:HG21	8:RK:418:PHE:HE1	1.85	0.41
9:SB:3:GLU:N	9:SB:3:GLU:OE1	2.53	0.41
9:SB:73:MET:HA	9:SB:76:VAL:HG12	2.03	0.41
8:SC:70:LEU:HB3	8:SC:98:ASP:HA	2.02	0.41
8:SC:210:TYR:CE1	8:SC:227:LEU:HD11	2.56	0.41
8:SC:289:ALA:HA	8:SC:331:ALA:HB2	2.03	0.41
8:SE:4:CYS:HB2	8:SE:52:PHE:CE1	2.55	0.41
8:SI:62:VAL:HG11	8:SI:88:HIS:CE1	2.55	0.41
8:SK:189:LEU:HD11	8:SK:418:PHE:CE1	2.55	0.41
9:SL:344:TRP:H	9:SL:344:TRP:CD1	2.38	0.41
9:TD:130:LEU:HB3	9:TD:162:ARG:NH1	2.36	0.41
8:TE:51:THR:HG21	8:TE:243:ARG:HG2	2.02	0.41
8:TI:272:TYR:HD2	8:TI:275:VAL:HG13	1.86	0.41
9:TJ:31:ASP:OD2	9:TJ:37:HIS:HE1	2.03	0.41
8:TM:295:CYS:HB3	8:TM:377:MET:HG3	2.02	0.41
9:UD:8:GLN:NE2	9:UD:17:GLY:HA3	2.35	0.41
9:UD:309:ARG:NH1	9:UD:339:SER:O	2.53	0.41
9:UF:65:LEU:HD22	9:UF:90:PHE:CE1	2.55	0.41
9:UF:215:LEU:HD21	9:UF:273:LEU:HD22	2.01	0.41
8:UG:3:GLU:HA	8:UG:51:THR:HA	2.03	0.41
8:UG:234:ILE:HD11	8:UG:272:TYR:HB2	2.01	0.41
8:UI:191:THR:HG23	8:UI:425:LEU:HD21	2.03	0.41
8:UI:230:LEU:HD12	8:UI:302:MET:HE1	2.03	0.41
9:UN:87:PRO:HD3	9:VN:281:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UN:112:LEU:O	9:UN:116:VAL:HG12	2.21	0.41
9:VD:299:MET:HE2	9:VD:299:MET:HB2	1.81	0.41
9:VH:207:LEU:HB3	9:VH:225:LEU:HG	2.01	0.41
8:VK:113:GLU:H	8:VK:113:GLU:HG3	1.72	0.41
9:VL:205:GLU:HG2	9:VL:206:ALA:H	1.85	0.41
9:WB:326:VAL:HB	9:WB:330:MET:HE3	2.02	0.41
8:WC:185:TYR:CD2	8:WC:398:MET:HE1	2.56	0.41
9:WD:252:LYS:HE2	8:WE:100:ALA:HA	2.03	0.41
8:WE:36:MET:HE3	8:WE:37:PRO:HD2	2.02	0.41
8:WG:156:ARG:HD3	8:WG:156:ARG:HA	1.91	0.41
8:WK:230:LEU:O	8:WK:234:ILE:HG23	2.21	0.41
9:WL:268:PRO:HA	9:WL:367:PHE:O	2.21	0.41
8:WM:125:LEU:HD23	8:WM:125:LEU:HA	1.92	0.41
47:X:335:LEU:O	47:X:342:PHE:N	2.43	0.41
56:XG:52:THR:OG1	56:XG:53:ASN:N	2.53	0.41
56:XI:95:ASP:HB2	56:XI:146:THR:OG1	2.21	0.41
56:XK:68:THR:HB	56:XK:152:LEU:HD22	2.02	0.41
56:XL:95:ASP:OD2	56:XL:101:ARG:NE	2.53	0.41
57:YJ:109:LEU:HD12	57:YJ:109:LEU:HA	1.89	0.41
58:Z:133:LYS:HD3	58:Z:133:LYS:HA	1.82	0.41
59:a:253:ILE:HD13	59:a:253:ILE:HA	1.88	0.41
59:c:92:THR:OG1	59:c:93:LYS:N	2.54	0.41
59:d:332:LYS:HE3	59:d:332:LYS:HB3	1.97	0.41
60:e:340:ASP:OD1	60:e:342:VAL:HG23	2.21	0.41
60:f:36:HIS:NE2	60:f:38:ASP:OD1	2.53	0.41
63:k:113:ALA:HB1	63:k:142:ILE:HG13	2.03	0.41
63:m:42:LEU:HD13	63:m:47:ILE:HD11	2.01	0.41
58:p:70:ARG:HD2	58:p:70:ARG:HA	1.86	0.41
66:u:305:ASP:OD1	66:u:308:THR:N	2.49	0.41
66:v:389:LEU:O	66:v:393:ASP:HB3	2.21	0.41
2:0E:4:GLU:HA	2:0E:7:GLU:HG3	2.02	0.41
6:A0:167:LEU:HD23	8:IE:214:ARG:NH2	2.36	0.41
7:A7:163:ILE:HG23	9:SD:296:ALA:HB2	2.02	0.41
9:AH:268:PRO:HB2	9:AH:300:MET:HE3	2.02	0.41
8:AI:364:PRO:HB2	32:Co:4:LEU:HD13	2.01	0.41
11:AT:285:ARG:HA	11:AT:285:ARG:HE	1.86	0.41
12:AV:279:ARG:O	12:AV:283:GLU:HG3	2.20	0.41
12:AV:317:ASN:OD1	12:AV:317:ASN:N	2.54	0.41
13:Ab:124:LEU:HD23	13:Ab:125:PRO:HD2	2.03	0.41
13:Ab:440:ILE:HG12	13:Ab:451:VAL:HG12	2.02	0.41
13:Ab:459:SER:HG	13:Ab:461:TYR:H	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:632:ASP:O	13:Ab:634:GLU:N	2.52	0.41
13:Ac:86:ARG:NH2	13:Ac:103:GLU:OE2	2.53	0.41
7:Aw:69:ARG:O	8:OC:308:ARG:NH1	2.54	0.41
7:Ay:188:THR:HG23	8:FC:116:ASP:HB3	2.03	0.41
18:B5:127:ILE:HD12	8:LK:113:GLU:OE1	2.20	0.41
8:BC:185:TYR:HE2	8:BC:404:PHE:HB2	1.85	0.41
8:BI:211:ASP:O	8:BI:215:ARG:NH1	2.53	0.41
9:BL:87:PRO:HA	9:BL:90:PHE:HD1	1.86	0.41
8:BM:101:ASN:OD1	8:BM:182:VAL:HB	2.20	0.41
20:BT:23:ASP:HB3	20:BT:26:LYS:HG2	2.02	0.41
22:BW:73:ARG:HD3	22:BW:73:ARG:HA	1.77	0.41
14:Bc:205:LEU:HD23	14:Bc:205:LEU:HA	1.96	0.41
21:Bk:357:LYS:HD3	21:Bk:357:LYS:HA	1.84	0.41
27:Bs:303:LEU:O	27:Bs:307:LEU:HD23	2.21	0.41
28:C0:400:LEU:HD12	28:C0:400:LEU:HA	1.89	0.41
28:C0:416:ALA:HB2	28:C9:145:ASN:HB3	2.02	0.41
28:C9:119:ARG:HE	28:C9:119:ARG:HB2	1.77	0.41
28:C9:475:SER:HA	28:C9:478:ARG:HH21	1.85	0.41
8:CA:349:THR:HG23	9:CB:176:SER:HB2	2.03	0.41
9:CB:311:LEU:HD23	9:CB:342:VAL:HG11	2.01	0.41
8:CC:252:LEU:HD12	8:CC:255:PHE:HE2	1.86	0.41
9:CF:219:THR:O	9:CF:219:THR:OG1	2.26	0.41
8:CG:22:GLU:O	8:CG:26:LEU:HD23	2.21	0.41
8:CK:209:ILE:HA	8:CK:212:ILE:HG12	2.02	0.41
8:CK:395:LEU:HD23	8:CK:422:ARG:HH11	1.85	0.41
2:CU:97:LEU:HA	2:CU:100:LYS:HD2	2.01	0.41
2:CV:19:PHE:HZ	2:CV:26:PHE:HE2	1.69	0.41
2:CV:144:ILE:O	2:CV:148:LEU:HG	2.20	0.41
30:CW:345:SER:O	30:CW:345:SER:OG	2.37	0.41
2:Cc:79:LYS:HA	2:Cc:79:LYS:HD3	1.87	0.41
2:Cd:73:ILE:HD13	2:Cd:73:ILE:HA	1.95	0.41
2:Ch:47:ILE:HD11	2:Ch:141:LEU:HD21	2.03	0.41
2:Ch:120:HIS:NE2	2:Ch:147:ASP:OD2	2.54	0.41
2:Ck:30:LEU:HD23	2:Ck:30:LEU:HA	1.90	0.41
31:Cl:361:ASN:OD1	31:Cl:361:ASN:N	2.51	0.41
32:Co:243:ASP:OD1	43:E3:73:ARG:NH2	2.53	0.41
33:Cq:272:MET:HG2	33:Cq:384:MET:HG2	2.02	0.41
33:Cu:92:LEU:HD22	33:Cu:236:ALA:HB1	2.02	0.41
29:D1:361:GLN:HE22	29:DR:299:TRP:CD1	2.38	0.41
29:D2:140:GLY:N	29:D2:143:ARG:HH21	2.19	0.41
29:D2:405:ARG:HB2	29:D2:410:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:375:GLU:HA	29:D4:378:ILE:HG12	2.02	0.41
9:DB:69:GLU:HA	9:DB:70:PRO:HD3	1.85	0.41
8:DC:207:GLU:HA	8:DC:210:TYR:CD2	2.55	0.41
8:DE:213:CYS:O	8:DE:218:ASP:N	2.52	0.41
9:DF:68:LEU:HD23	9:DF:68:LEU:HA	1.88	0.41
9:DF:403:MET:HE3	9:DF:403:MET:HB2	1.88	0.41
8:DG:255:PHE:O	8:DG:259:LEU:N	2.54	0.41
9:DH:156:ARG:HA	9:DH:156:ARG:HD2	1.90	0.41
8:DI:255:PHE:O	8:DI:259:LEU:HD22	2.20	0.41
9:DJ:8:GLN:OE1	9:DJ:136:THR:OG1	2.39	0.41
9:DJ:256:ASN:HD21	8:DK:181:VAL:H	1.69	0.41
9:DL:12:CYS:HA	9:DL:15:GLN:OE1	2.20	0.41
9:DL:324:LYS:HB3	8:DM:221:ARG:HA	2.02	0.41
9:DN:165:ASN:HB3	9:DN:200:TYR:HE1	1.85	0.41
29:DQ:469:LYS:C	29:DQ:473:MET:HE2	2.45	0.41
29:DU:189:CYS:O	29:DU:193:VAL:HG12	2.20	0.41
29:DU:454:LEU:HD13	29:DU:454:LEU:HA	1.82	0.41
29:DV:55:LEU:HD12	29:DV:55:LEU:HA	1.91	0.41
29:DV:173:LEU:HD11	29:DV:317:SER:HB3	2.01	0.41
29:DV:196:GLU:HA	29:DV:199:TYR:HB3	2.03	0.41
36:Db:190:TRP:NE1	57:YK:217:LYS:HG2	2.35	0.41
36:Dd:155:ASN:ND2	9:WN:279:GLN:HE22	2.19	0.41
39:Dk:64:LYS:HA	39:Dk:64:LYS:HD2	1.81	0.41
41:Dn:224:LYS:HD3	41:Dn:224:LYS:HA	1.88	0.41
43:E1:77:TYR:HD1	43:E1:78:THR:HG23	1.85	0.41
43:E2:194:PRO:HB2	28:F4:353:GLU:HG2	2.01	0.41
8:EE:254:GLU:HA	8:EE:257:THR:HG22	2.02	0.41
8:EE:353:VAL:HG22	9:EF:177:ASP:OD1	2.20	0.41
9:EF:170:VAL:N	9:EF:202:ILE:O	2.54	0.41
8:EI:219:ILE:HG21	8:EI:219:ILE:HD13	1.81	0.41
8:EI:371:VAL:HG11	8:EI:374:ALA:HB2	2.01	0.41
9:EJ:117:LEU:HA	9:EJ:120:VAL:HG12	2.03	0.41
9:EN:117:LEU:HA	9:EN:120:VAL:HG12	2.02	0.41
29:EQ:213:ASN:O	29:EQ:217:ASN:HB2	2.21	0.41
44:EZ:167:LEU:HD12	44:EZ:167:LEU:HA	1.84	0.41
35:Ee:192:PRO:HD3	8:MG:1:MET:HE1	2.03	0.41
42:F:511:TRP:HB3	42:F:514:GLU:OE1	2.20	0.41
28:F2:415:MET:HB2	28:F2:415:MET:HE3	1.54	0.41
9:FD:73:MET:N	9:FD:73:MET:SD	2.93	0.41
9:FF:272:PRO:HG3	9:FF:364:SER:HA	2.02	0.41
8:FG:27:GLU:OE2	8:FG:243:ARG:NH2	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FK:311:LYS:H	8:FK:382:THR:HG22	1.86	0.41
8:GC:2:ARG:HG2	8:GC:242:LEU:HD22	2.01	0.41
8:GC:191:THR:HG21	8:GC:425:LEU:HD12	2.03	0.41
9:GF:299:MET:HE1	9:GF:367:PHE:CD2	2.56	0.41
9:GH:130:LEU:HD12	9:GH:130:LEU:HA	1.97	0.41
9:GH:322:SER:OG	8:GI:222:PRO:O	2.35	0.41
8:GM:23:LEU:O	8:GM:27:GLU:HG2	2.20	0.41
8:HC:313:MET:HE3	8:HC:313:MET:HB2	1.92	0.41
8:HC:327:ASP:OD1	8:HC:327:ASP:N	2.52	0.41
8:HG:290:GLU:OE2	8:HG:290:GLU:N	2.45	0.41
8:HG:313:MET:HG2	8:HG:346:TRP:CH2	2.56	0.41
8:HI:70:LEU:HA	8:HI:95:GLY:HA3	2.02	0.41
8:HI:417:GLU:O	8:HI:420:GLU:HG3	2.21	0.41
9:ID:68:LEU:HD12	9:ID:97:ALA:HB2	2.01	0.41
8:IE:239:THR:HG23	8:IE:243:ARG:HH12	1.85	0.41
9:IF:183:TYR:OH	9:IF:388:MET:O	2.36	0.41
8:IG:253:THR:O	8:IG:257:THR:OG1	2.35	0.41
9:IJ:348:ASN:OD1	9:IJ:348:ASN:N	2.53	0.41
8:IK:297:GLU:HG3	8:IK:299:ALA:H	1.85	0.41
9:IL:111:GLU:HG3	51:O:139:ARG:HD2	2.03	0.41
9:IL:204:ASN:HD21	69:IL:501:GDP:HN22	1.69	0.41
48:J:41:ILE:HD13	48:J:41:ILE:HA	1.86	0.41
9:JB:239:CYS:HB3	9:JB:247:ASN:HB3	2.02	0.41
8:JC:133:GLN:HG2	8:JC:252:LEU:HB2	2.01	0.41
9:JD:354:CYS:SG	9:JD:355:ASP:N	2.94	0.41
8:JE:390:ARG:HH11	8:JE:390:ARG:HG3	1.86	0.41
8:JG:267:PHE:HB3	8:JG:384:ILE:HD13	2.03	0.41
8:JI:395:LEU:HD23	8:JI:422:ARG:HD3	2.01	0.41
8:JK:288:VAL:HA	8:JK:291:ILE:HG22	2.01	0.41
9:JL:30:ILE:HD11	9:JL:47:ILE:HD11	2.02	0.41
9:KB:46:ARG:HD3	9:KB:46:ARG:HA	1.74	0.41
9:KB:383:GLU:HA	9:KB:386:THR:HG22	2.02	0.41
8:KC:174:ALA:HB3	8:KC:177:VAL:O	2.20	0.41
9:KD:248:ALA:HA	9:KD:252:LYS:HE3	2.03	0.41
9:KF:236:VAL:HG12	9:KF:368:ILE:HD11	2.02	0.41
8:KG:175:PRO:HB3	8:KG:390:ARG:HH12	1.86	0.41
8:KG:283:HIS:ND1	8:LG:60:LYS:HE2	2.36	0.41
8:KG:298:PRO:HG3	8:KG:307:PRO:HD2	2.03	0.41
9:KN:2:ARG:HE	9:KN:2:ARG:HB2	1.71	0.41
8:KO:35:GLN:HA	8:KO:61:HIS:HD2	1.85	0.41
9:LD:322:SER:HA	8:LE:223:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LI:284:GLU:N	8:LI:284:GLU:OE1	2.53	0.41
9:LL:7:LEU:HD21	9:LL:120:VAL:HG11	2.02	0.41
8:LM:174:ALA:HB3	8:LM:177:VAL:O	2.20	0.41
8:MC:244:PHE:HB2	8:MC:356:ASN:HD21	1.85	0.41
8:ME:54:SER:OG	8:ME:55:GLU:N	2.53	0.41
9:MF:377:LEU:HD12	9:MF:380:ARG:HH22	1.86	0.41
8:MG:3:GLU:H	8:MG:3:GLU:HG3	1.67	0.41
8:MK:27:GLU:HA	8:MK:361:THR:HG21	2.03	0.41
9:MN:139:LEU:HD12	9:MN:170:VAL:HG12	2.02	0.41
9:MN:207:LEU:HD13	9:MN:225:LEU:HB3	2.03	0.41
9:MN:310:TYR:N	9:MN:340:TYR:O	2.41	0.41
9:NB:132:GLY:HA2	9:NB:162:ARG:HG3	2.01	0.41
9:NB:256:ASN:HB2	8:NC:181:VAL:HB	2.03	0.41
8:NC:122:ILE:HD13	8:NC:157:LEU:HD21	2.03	0.41
9:ND:326:VAL:O	9:ND:330:MET:HG2	2.21	0.41
9:NF:154:LYS:HA	9:NF:154:LYS:HD3	1.90	0.41
8:NG:209:ILE:HA	8:NG:212:ILE:HG12	2.02	0.41
9:NH:289:LEU:HD11	9:NH:363:MET:HG2	2.03	0.41
9:O0:258:VAL:HA	9:O0:259:PRO:HD3	1.94	0.41
8:OE:3:GLU:OE1	8:OE:129:CYS:HB2	2.21	0.41
8:OG:70:LEU:HD22	8:OG:145:THR:HG23	2.03	0.41
9:OH:68:LEU:HD13	9:OH:68:LEU:HA	1.90	0.41
8:OI:338:LYS:HA	8:OI:338:LYS:HD3	1.73	0.41
52:P:26:ARG:O	52:P:30:GLU:HG3	2.20	0.41
8:PA:230:LEU:HA	8:PA:230:LEU:HD23	1.83	0.41
9:PB:267:MET:HA	9:PB:268:PRO:HD3	1.76	0.41
8:PC:11:GLN:HA	8:PC:14:VAL:HG12	2.01	0.41
8:PC:269:LEU:HD22	8:PC:303:VAL:HG21	2.03	0.41
9:PD:1:MET:HE2	9:PD:46:ARG:HD2	2.03	0.41
9:PD:314:ALA:HB3	9:PD:368:ILE:HB	2.01	0.41
67:PD:502:GTP:N2	8:PE:227:LEU:HD12	2.34	0.41
9:PJ:334:GLN:NE2	9:PJ:349:VAL:HG23	2.36	0.41
9:QB:221:THR:OG1	9:QB:222:TYR:N	2.53	0.41
9:QB:347:ASN:ND2	8:QC:180:ALA:O	2.53	0.41
8:QE:320:ARG:HE	8:QE:360:PRO:HB3	1.86	0.41
8:QE:322:ASP:OD1	8:QE:322:ASP:N	2.42	0.41
9:QF:35:THR:OG1	9:QF:36:TYR:N	2.54	0.41
8:QI:136:LEU:HD23	8:QI:138:PHE:HE1	1.86	0.41
8:QI:210:TYR:O	8:QI:214:ARG:HG3	2.21	0.41
9:QJ:300:MET:HE2	9:QJ:300:MET:HB3	1.87	0.41
9:QJ:310:TYR:HB2	9:QJ:341:PHE:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QM:60:LYS:HD2	8:RM:282:TYR:CE2	2.56	0.41
8:RA:168:GLU:N	8:RA:168:GLU:OE2	2.54	0.41
8:RA:210:TYR:OH	8:RA:221:ARG:NH1	2.54	0.41
9:RB:164:MET:HE3	9:RB:164:MET:HB3	1.73	0.41
8:RC:33:ASP:HA	8:RC:85:GLN:HB2	2.01	0.41
8:RC:93:ILE:HG21	8:RC:118:VAL:HG12	2.03	0.41
8:RC:255:PHE:CZ	8:RC:318:LEU:HD11	2.56	0.41
9:RD:21:TRP:CZ2	9:RD:63:ALA:HB2	2.55	0.41
8:RE:136:LEU:HD13	8:RE:136:LEU:HA	1.93	0.41
9:RF:50:TYR:O	9:RF:62:ARG:HG2	2.21	0.41
9:RF:386:THR:O	9:RF:390:ARG:NE	2.39	0.41
8:RG:401:LYS:O	8:RG:401:LYS:HG3	2.21	0.41
8:RI:320:ARG:HE	8:RI:360:PRO:HG3	1.84	0.41
8:RK:182:VAL:HG13	8:RK:186:ASN:HD21	1.84	0.41
8:RK:216:ASN:OD1	8:RK:216:ASN:N	2.48	0.41
8:RK:311:LYS:H	8:RK:382:THR:HB	1.86	0.41
9:RL:424:GLN:HG3	9:RL:425:TYR:CD2	2.55	0.41
9:SB:330:MET:HB3	9:SB:349:VAL:HG21	2.02	0.41
8:SC:382:THR:HA	8:SC:432:TYR:HE2	1.86	0.41
9:SD:248:ALA:HA	9:SD:252:LYS:HD2	2.02	0.41
8:SE:211:ASP:O	8:SE:215:ARG:NH1	2.53	0.41
8:SI:308:ARG:H	8:SI:308:ARG:HG2	1.63	0.41
9:SJ:64:VAL:HG12	9:SJ:89:ASN:HB3	2.03	0.41
9:SJ:272:PRO:HG3	9:SJ:364:SER:HA	2.02	0.41
8:SM:147:SER:HB2	8:SM:190:THR:HB	2.02	0.41
8:TK:203:MET:HA	8:TK:203:MET:HE3	2.03	0.41
9:TL:221:THR:OG1	9:TL:222:TYR:N	2.54	0.41
8:TM:377:MET:C	8:TM:377:MET:HE3	2.46	0.41
9:UB:170:VAL:HG11	9:UB:377:LEU:HD21	2.02	0.41
8:UC:172:TYR:CD2	8:UC:173:PRO:HD2	2.55	0.41
9:UD:162:ARG:HD3	9:UD:162:ARG:HA	1.90	0.41
9:UJ:42:LEU:HD23	9:UJ:42:LEU:HA	1.87	0.41
9:UJ:337:ASN:OD1	9:UJ:337:ASN:N	2.54	0.41
9:UL:329:GLN:O	9:UL:333:VAL:HG13	2.20	0.41
9:UN:155:ILE:HD13	9:UN:155:ILE:HA	1.90	0.41
1:V:79:ARG:HH22	1:V:80:ARG:CG	2.33	0.41
8:VC:117:LEU:HD12	8:VC:117:LEU:HA	1.89	0.41
8:VC:153:LEU:HG	8:VC:157:LEU:HD11	2.02	0.41
9:VD:272:PRO:HG3	9:VD:364:SER:HA	2.03	0.41
9:VD:286:VAL:HG11	9:VD:326:VAL:HG22	2.03	0.41
9:VH:362:LYS:HD2	9:VH:362:LYS:HA	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VI:60:LYS:HE2	8:VI:60:LYS:HB2	1.77	0.41
8:VI:188:ILE:HG22	8:VI:421:ALA:HB1	2.02	0.41
9:VJ:293:MET:HE2	9:VJ:367:PHE:HB2	2.02	0.41
9:VN:121:ARG:NH1	9:VN:158:GLU:OE1	2.53	0.41
9:WB:185:ALA:HB3	9:WB:381:ILE:HD11	2.03	0.41
8:WE:425:LEU:HD12	8:WE:425:LEU:HA	1.73	0.41
9:WF:336:LYS:HB2	9:WF:336:LYS:HE2	1.75	0.41
9:WL:42:LEU:HD12	9:WL:43:GLN:HG3	2.02	0.41
9:WL:267:MET:HE1	9:WL:305:PRO:HG3	2.01	0.41
8:WM:90:GLU:HG3	8:WM:121:ARG:HD3	2.03	0.41
8:WM:211:ASP:O	8:WM:215:ARG:HG2	2.20	0.41
9:WN:178:THR:HB	9:WN:181:GLU:HG2	2.02	0.41
9:WN:192:LEU:O	9:WN:196:THR:OG1	2.29	0.41
56:XJ:73:LEU:HA	56:XJ:74:PRO:HD3	1.83	0.41
56:XK:49:ILE:HG12	56:XK:158:ALA:HA	2.02	0.41
47:Y:358:LYS:HB3	47:Y:358:LYS:HE2	1.71	0.41
59:a:227:ASP:HA	59:a:230:MET:HG2	2.02	0.41
59:b:524:ARG:NH2	59:b:537:GLU:OE2	2.53	0.41
59:c:79:LEU:HD23	59:c:79:LEU:HA	1.92	0.41
60:e:249:LYS:HA	60:e:249:LYS:HD3	1.87	0.41
60:e:333:CYS:SG	60:e:334:HIS:N	2.94	0.41
60:f:168:ILE:HD12	60:f:214:ILE:HG23	2.02	0.41
60:f:398:ASP:OD1	60:f:398:ASP:N	2.53	0.41
62:j:150:GLY:HA3	62:j:159:MET:CE	2.42	0.41
58:p:81:LEU:HD12	58:p:81:LEU:HA	1.89	0.41
66:w:354:TRP:HD1	66:w:397:TYR:HD2	1.67	0.41
4:z:1335:LYS:HE2	4:z:1335:LYS:HB2	1.83	0.41
2:0A:51:GLN:HG3	2:0A:71:LEU:HD13	2.01	0.41
2:0C:42:ARG:HH12	2:0C:49:GLN:HG3	1.86	0.41
2:0E:145:ILE:HG22	2:0E:149:MET:HE1	2.02	0.41
2:0G:79:LYS:HA	2:0G:79:LYS:HD3	1.78	0.41
2:0a:2:MET:HE2	2:0a:6:LYS:HE3	2.03	0.41
3:1:214:ASP:OD1	3:1:215:SER:N	2.49	0.41
7:A1:213:THR:HG21	8:OA:164:LYS:NZ	2.35	0.41
7:A9:92:ARG:HG2	9:TB:304:ASP:HB2	2.02	0.41
8:AA:279:GLU:H	8:AA:279:GLU:HG2	1.63	0.41
8:AC:43:GLY:H	47:X:96:VAL:HG21	1.85	0.41
9:AD:207:LEU:HB3	9:AD:225:LEU:HD22	2.03	0.41
8:AE:213:CYS:O	8:AE:219:ILE:HB	2.21	0.41
9:AF:131:GLN:HG3	9:AF:163:ILE:HD11	2.02	0.41
9:AF:273:LEU:O	9:AF:292:GLN:NE2	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AF:310:TYR:HB2	9:AF:341:PHE:CD1	2.56	0.41
9:AF:423:GLN:HE21	57:YJ:59:ALA:HB1	1.86	0.41
8:AI:220:GLU:C	8:AI:221:ARG:HG2	2.46	0.41
8:AI:360:PRO:HG3	8:AI:374:ALA:HB2	2.03	0.41
9:AL:173:PRO:HG2	9:AL:174:LYS:NZ	2.35	0.41
11:AT:152:LYS:HD3	11:AT:152:LYS:HA	1.92	0.41
12:AW:153:ILE:HD13	12:AW:153:ILE:HA	1.90	0.41
13:Ab:579:LYS:HB2	13:Ab:579:LYS:HE2	1.77	0.41
13:Ad:48:LYS:H	13:Ad:48:LYS:HG2	1.71	0.41
13:Ad:539:LYS:HA	13:Ad:539:LYS:HE3	2.01	0.41
14:Am:28:ARG:O	14:Am:28:ARG:NE	2.54	0.41
15:Ar:165:LEU:HB3	38:Dh:86:PHE:CE1	2.55	0.41
5:B:100:TYR:HD1	9:VF:57:GLY:HA3	1.86	0.41
18:B5:73:LYS:HE2	18:B5:73:LYS:HB2	1.89	0.41
8:BA:214:ARG:HE	8:BA:215:ARG:HG3	1.86	0.41
9:BD:274:THR:HG21	47:X:109:MET:HE3	2.02	0.41
8:BE:79:ARG:HH21	8:BE:92:LEU:HB3	1.85	0.41
9:BF:203:ASP:OD2	9:BF:301:ALA:HA	2.21	0.41
8:BG:37:PRO:HD2	8:BG:40:LYS:HE2	2.03	0.41
8:BG:157:LEU:HD23	8:BG:157:LEU:HA	1.89	0.41
9:BJ:170:VAL:N	9:BJ:202:ILE:O	2.49	0.41
9:BJ:251:ARG:O	9:BJ:255:VAL:HG23	2.21	0.41
8:BK:199:ASP:OD1	8:BK:199:ASP:N	2.45	0.41
8:BK:286:LEU:HD13	8:BK:371:VAL:HG12	2.03	0.41
9:BL:137:HIS:NE2	9:BL:168:SER:OG	2.54	0.41
9:BL:270:PHE:CE2	9:BL:272:PRO:HD2	2.56	0.41
8:BM:118:VAL:HG21	8:BM:149:PHE:HZ	1.85	0.41
19:BO:213:MET:HE2	19:BO:213:MET:HB2	1.83	0.41
19:BP:114:HIS:HB3	19:BQ:378:ILE:HD12	2.02	0.41
19:BR:30:GLU:O	19:BR:34:GLN:HG2	2.20	0.41
22:BX:38:LYS:NZ	42:F:707:PRO:O	2.54	0.41
23:Bg:69:THR:OG1	23:Bg:70:VAL:N	2.54	0.41
24:Bh:119:THR:O	24:Bh:119:THR:OG1	2.31	0.41
21:Bj:185:LEU:HD22	9:LD:55:THR:HA	2.01	0.41
21:Bj:195:ALA:HB1	9:KD:276:ARG:HD3	2.01	0.41
21:Bk:321:LEU:HA	21:Bk:324:GLU:OE1	2.21	0.41
21:Bk:376:SER:O	21:Bk:376:SER:OG	2.37	0.41
27:Bs:285:MET:HA	27:Bs:288:VAL:HG12	2.03	0.41
18:By:224:ILE:O	18:By:228:ILE:HG13	2.21	0.41
28:C2:81:LEU:HA	28:C2:82:PRO:HD3	1.86	0.41
28:C2:384:LYS:HD2	32:Cn:93:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:C3:92:THR:HG22	29:DT:55:LEU:HD12	2.02	0.41
28:C6:84:VAL:HA	28:C6:88:THR:HG21	2.02	0.41
9:CD:58:LYS:HE2	9:CD:58:LYS:HB3	1.76	0.41
9:CD:73:MET:HE3	9:CD:92:PHE:HB3	2.02	0.41
9:CF:374:ILE:HG22	9:CF:422:TYR:HE2	1.86	0.41
9:CH:290:THR:HG21	9:CH:329:GLN:HB2	2.02	0.41
9:CJ:134:GLN:HE21	9:CJ:167:PHE:HE1	1.69	0.41
14:CN:217:LYS:HE2	14:CN:217:LYS:HB2	1.79	0.41
17:CS:17:ASP:O	17:CS:19:TYR:N	2.53	0.41
2:Ca:26:PHE:CE2	2:Ca:30:LEU:HD21	2.56	0.41
2:Cg:2:MET:HE1	2:Cg:87:LEU:HD11	2.02	0.41
2:Cj:134:HIS:HB3	2:Cj:135:TYR:H	1.74	0.41
2:Ck:50:VAL:HA	2:Ck:53:TYR:HB2	2.03	0.41
2:Ck:60:ASN:OD1	2:Ck:60:ASN:N	2.50	0.41
31:Cl:259:LYS:HD3	29:D5:301:LYS:HZ1	1.86	0.41
32:Cm:122:ARG:HB2	32:Cm:127:LEU:HD13	2.01	0.41
32:Cm:295:ASN:ND2	32:Co:41:SER:OG	2.45	0.41
33:Cq:182:THR:OG1	33:Cr:328:GLU:OE1	2.29	0.41
33:Cr:95:MET:HE3	33:Cr:243:ILE:HG22	2.02	0.41
33:Cr:262:GLU:OE2	33:Cr:391:MET:HE1	2.21	0.41
33:Cw:121:GLU:OE1	44:EX:409:ARG:NH1	2.48	0.41
33:Cw:161:LYS:HD2	33:Cw:236:ALA:HB2	2.03	0.41
33:Cx:75:LYS:NZ	33:Cx:79:ASP:OD2	2.53	0.41
33:Cx:200:SER:HB2	44:EW:213:MET:HG3	2.02	0.41
29:Cz:260:LYS:HG2	29:Cz:265:PHE:CE1	2.55	0.41
29:D1:313:MET:HB2	29:D1:313:MET:HE2	1.74	0.41
29:D1:465:LEU:HD23	29:D1:465:LEU:HA	1.92	0.41
29:D3:225:ILE:O	29:D3:229:GLN:HG2	2.21	0.41
29:D4:176:ILE:HD13	29:D4:176:ILE:HG21	1.84	0.41
29:D4:388:LYS:HE2	29:D4:388:LYS:HB2	1.82	0.41
29:D8:269:LYS:HE2	29:D8:269:LYS:HB3	1.89	0.41
8:DA:304:LYS:HA	8:DA:304:LYS:HD3	1.87	0.41
8:DA:353:VAL:HG23	9:DB:177:ASP:HA	2.02	0.41
9:DF:186:THR:HA	9:DF:189:VAL:HG22	2.02	0.41
8:DG:169:PHE:CZ	8:DG:238:ILE:HD12	2.56	0.41
9:DH:131:GLN:HE22	9:DH:250:LEU:HG	1.84	0.41
8:DI:420:GLU:H	8:DI:420:GLU:HG2	1.63	0.41
8:DI:425:LEU:HD23	8:DI:425:LEU:HA	1.86	0.41
8:DM:112:LYS:HA	8:DM:112:LYS:HD3	1.90	0.41
8:DM:209:ILE:HD11	8:DM:231:ILE:HD11	2.02	0.41
29:DS:163:LEU:HD23	29:DS:163:LEU:HA	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DS:225:ILE:O	29:DS:228:CYS:HB2	2.21	0.41
29:DV:230:GLU:O	29:DV:234:LYS:HG3	2.21	0.41
35:DZ:34:LEU:HD12	35:DZ:38:LYS:HB2	2.03	0.41
38:Dh:20:SER:HA	38:Dh:23:ILE:HG22	2.03	0.41
43:E4:11:PRO:HD3	44:ET:267:ARG:HH12	1.86	0.41
29:EA:290:ASP:HB3	29:EA:292:THR:HG22	2.02	0.41
9:EB:236:VAL:HG22	9:EB:368:ILE:HD11	2.02	0.41
9:EF:171:PRO:HG3	9:EF:185:ALA:HB2	2.02	0.41
9:EF:383:GLU:HA	9:EF:386:THR:HG22	2.03	0.41
9:EH:377:LEU:HD23	9:EH:377:LEU:HA	1.96	0.41
9:EJ:183:TYR:O	9:EJ:187:LEU:HB2	2.21	0.41
29:EP:436:ARG:HD3	29:EP:436:ARG:HA	1.67	0.41
44:ET:180:ALA:O	44:ET:184:ARG:HG2	2.20	0.41
44:EX:42:ALA:HB2	44:EY:184:ARG:HH11	1.85	0.41
44:EX:242:PRO:HD2	28:F3:165:ASP:OD1	2.20	0.41
44:EZ:130:LEU:HD23	44:EZ:130:LEU:HA	1.90	0.41
28:F2:144:GLN:O	28:F2:148:GLU:HG3	2.21	0.41
9:FB:202:ILE:HD11	9:FB:268:PRO:HG2	2.02	0.41
9:FD:258:VAL:HG13	8:FE:407:TRP:CZ2	2.56	0.41
8:FG:69:ASP:CG	8:FG:71:GLU:H	2.28	0.41
8:FG:358:GLN:OE1	8:FG:359:PRO:HD2	2.21	0.41
9:FL:232:THR:HG21	9:FL:268:PRO:HB2	2.03	0.41
45:G:188:LYS:HA	45:G:218:LEU:HD13	2.03	0.41
8:GG:127:ASP:OD1	8:GG:128:LEU:N	2.54	0.41
9:HB:39:ASP:OD1	9:HB:39:ASP:N	2.46	0.41
9:HD:105:HIS:CE1	9:HD:150:LEU:HD12	2.56	0.41
9:HD:115:SER:O	9:HD:119:VAL:HG23	2.20	0.41
9:HJ:22:GLU:HG3	9:HJ:81:PHE:CD1	2.56	0.41
9:HL:114:ASP:OD1	9:HL:114:ASP:N	2.53	0.41
8:HO:215:ARG:HH11	8:HO:215:ARG:HG2	1.86	0.41
9:IJ:111:GLU:HG3	3:x:68:ARG:HH21	1.86	0.41
8:IM:76:ASP:HA	8:IM:79:ARG:HD2	2.01	0.41
9:IN:43:GLN:H	9:IN:43:GLN:HG3	1.69	0.41
9:IN:92:PHE:CE2	51:O:32:LEU:HA	2.56	0.41
9:JB:131:GLN:HE22	9:JB:249:ASP:HB2	1.85	0.41
9:JB:415:MET:HE2	9:JB:415:MET:HB3	1.93	0.41
9:JD:58:LYS:HE3	9:JD:58:LYS:HB2	1.74	0.41
9:JF:91:VAL:HG21	9:JF:116:VAL:HG22	2.03	0.41
9:JH:101:TRP:CZ3	9:JH:187:LEU:HD23	2.56	0.41
8:JK:9:VAL:HG13	8:JK:139:HIS:HB3	2.03	0.41
8:JK:402:ARG:NH1	8:JK:415:GLU:OE1	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JL:68:LEU:HD12	9:JL:97:ALA:HB2	2.01	0.41
9:JL:381:ILE:HG23	9:JL:415:MET:HE1	2.02	0.41
8:JM:286:LEU:HD23	8:JM:286:LEU:HA	1.88	0.41
9:KD:68:LEU:HD13	9:KD:143:THR:HG23	2.02	0.41
8:KE:27:GLU:OE2	8:KE:243:ARG:NH1	2.54	0.41
9:KF:237:THR:HB	9:KF:240:LEU:HD21	2.03	0.41
9:KF:392:LYS:NZ	9:KF:405:GLU:HG2	2.35	0.41
9:KH:4:ILE:HD11	9:KH:250:LEU:HD11	2.02	0.41
9:KH:278:SER:O	9:KH:278:SER:OG	2.32	0.41
9:KH:375:GLN:NE2	9:KH:423:GLN:OE1	2.52	0.41
50:L2:41:HIS:CE1	59:b:232:VAL:HG13	2.55	0.41
9:LD:48:ASN:ND2	9:LD:48:ASN:C	2.77	0.41
9:LD:51:TYR:O	9:LD:62:ARG:NH1	2.53	0.41
8:LK:98:ASP:OD1	8:LK:98:ASP:N	2.51	0.41
9:LL:36:TYR:CE1	9:LL:44:LEU:HD22	2.56	0.41
9:LL:256:ASN:O	9:LL:312:THR:HG21	2.21	0.41
9:LN:111:GLU:H	9:LN:111:GLU:HG2	1.63	0.41
9:LN:257:MET:HE2	9:LN:368:ILE:HG22	2.01	0.41
9:MB:287:PRO:HA	9:MB:290:THR:HG22	2.03	0.41
9:MD:100:ASN:ND2	9:MD:401:GLU:OE2	2.53	0.41
9:MD:219:THR:O	9:MD:219:THR:OG1	2.32	0.41
8:MI:425:LEU:HD12	8:MI:428:LEU:HD23	2.03	0.41
9:ML:344:TRP:CD1	9:ML:344:TRP:H	2.39	0.41
8:MM:168:GLU:OE1	8:MM:168:GLU:HA	2.21	0.41
9:MN:97:ALA:O	9:MN:103:LYS:HD2	2.20	0.41
9:MN:415:MET:HE2	9:MN:415:MET:HB2	1.93	0.41
9:N0:3:GLU:OE1	9:N0:62:ARG:NH2	2.53	0.41
9:N0:257:MET:HE3	9:N0:257:MET:HB3	1.85	0.41
9:N0:324:LYS:HZ3	8:NA:221:ARG:HA	1.84	0.41
9:NF:329:GLN:HG3	9:NF:329:GLN:H	1.59	0.41
8:NI:271:THR:N	8:NI:377:MET:O	2.53	0.41
8:NK:16:ILE:HD13	8:NK:228:ASN:HB3	2.03	0.41
8:NK:107:HIS:CD2	8:NK:152:LEU:HB2	2.55	0.41
8:NK:304:LYS:HD3	8:NK:304:LYS:HA	1.71	0.41
9:OD:94:GLN:H	9:OD:94:GLN:HG3	1.63	0.41
9:OD:132:GLY:HA2	9:OD:162:ARG:HB3	2.02	0.41
9:OF:47:ILE:HD13	9:OF:59:TYR:CZ	2.56	0.41
8:OG:7:ILE:HG12	8:OG:137:ILE:HA	2.02	0.41
8:OG:430:LYS:HE3	8:OG:430:LYS:HB3	1.83	0.41
9:OH:101:TRP:CD1	9:OH:146:GLY:HA2	2.55	0.41
9:OH:101:TRP:CE3	9:OH:187:LEU:HD13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OJ:122:LYS:HA	9:OJ:122:LYS:HD2	1.96	0.41
9:OJ:344:TRP:CD1	9:OJ:345:ILE:HG23	2.48	0.41
52:P:48:PHE:HA	52:P:50:GLU:OE1	2.21	0.41
8:PA:108:TYR:HA	8:PA:112:LYS:HZ1	1.86	0.41
8:PA:133:GLN:HB2	8:PA:252:LEU:HD13	2.03	0.41
8:PC:186:ASN:O	8:PC:190:THR:OG1	2.29	0.41
8:PC:395:LEU:HD22	8:PC:422:ARG:HD3	2.02	0.41
9:PD:385:PHE:HZ	9:PD:408:PHE:HB3	1.86	0.41
8:PG:202:PHE:CE1	8:PG:268:PRO:HG2	2.56	0.41
8:PG:385:ALA:HB2	8:PG:432:TYR:CD2	2.55	0.41
8:PK:112:LYS:HE3	8:PK:112:LYS:HB3	1.85	0.41
8:QA:297:GLU:OE1	8:QA:299:ALA:N	2.35	0.41
9:QB:83:GLN:O	9:RB:281:TYR:OH	2.34	0.41
9:QB:249:ASP:OD1	9:QB:249:ASP:N	2.46	0.41
8:QC:88:HIS:ND1	8:RC:284:GLU:OE2	2.54	0.41
9:QD:68:LEU:HD23	9:QD:68:LEU:HA	1.88	0.41
8:QE:56:THR:HA	8:RE:285:GLN:HE22	1.86	0.41
8:QE:151:SER:O	8:QE:155:GLU:HG2	2.20	0.41
8:QE:345:ASP:OD2	8:QE:438:ASP:HB2	2.21	0.41
9:QF:39:ASP:OD1	9:QF:39:ASP:N	2.36	0.41
8:QG:15:GLN:O	8:QG:228:ASN:ND2	2.54	0.41
8:QG:349:THR:OG1	8:QG:350:GLY:N	2.53	0.41
8:QG:370:LYS:HD2	8:QG:370:LYS:HA	1.67	0.41
9:QH:330:MET:HB3	9:QH:349:VAL:HG21	2.03	0.41
9:QJ:9:ALA:HA	9:QJ:66:VAL:HG22	2.03	0.41
8:QK:79:ARG:O	8:QK:84:ARG:NE	2.53	0.41
9:QL:121:ARG:HE	9:QL:158:GLU:CD	2.29	0.41
9:QL:367:PHE:HD1	9:QL:368:ILE:N	2.18	0.41
8:RA:20:CYS:HA	8:RA:23:LEU:HD23	2.03	0.41
8:RA:79:ARG:O	8:RA:84:ARG:HD3	2.21	0.41
9:RB:259:PRO:C	9:RB:260:PHE:HD1	2.29	0.41
9:RD:19:LYS:HA	9:RD:19:LYS:HD3	1.82	0.41
9:RD:78:SER:O	9:RD:78:SER:OG	2.37	0.41
8:RI:206:ASN:ND2	67:RI:501:GTP:C2	2.86	0.41
8:RI:276:ILE:HG12	8:RI:280:LYS:HB3	2.02	0.41
9:RJ:9:ALA:HA	9:RJ:66:VAL:HG22	2.03	0.41
9:RJ:31:ASP:HB3	9:RJ:37:HIS:HD2	1.85	0.41
9:RJ:323:MET:HE3	8:RK:224:TYR:CD1	2.56	0.41
9:RL:267:MET:HE1	9:RL:303:CYS:SG	2.61	0.41
9:SH:133:PHE:HB2	9:SH:164:MET:SD	2.60	0.41
9:SH:267:MET:HE1	9:SH:303:CYS:SG	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TE:188:ILE:HD13	8:TE:188:ILE:HA	1.80	0.41
8:TE:402:ARG:HG2	8:TE:405:VAL:HG21	2.03	0.41
8:TI:320:ARG:HH22	8:TI:360:PRO:HA	1.85	0.41
8:TK:311:LYS:NZ	8:TK:342:GLN:OE1	2.49	0.41
8:TM:206:ASN:HB3	8:TM:210:TYR:HE1	1.86	0.41
9:UB:193:VAL:HG21	9:UB:418:LEU:HD12	2.03	0.41
9:UB:207:LEU:HG	9:UB:225:LEU:CD1	2.51	0.41
9:UF:278:SER:O	9:UF:282:ARG:NH1	2.54	0.41
8:UG:183:GLU:OE2	8:UG:187:SER:OG	2.38	0.41
8:UG:254:GLU:OE2	9:UH:98:GLY:HA2	2.21	0.41
8:UG:391:LEU:HD12	8:UG:391:LEU:HA	1.91	0.41
9:UH:141:GLY:HA3	69:UH:501:GDP:O3A	2.21	0.41
9:UH:240:LEU:HD13	9:UH:249:ASP:HB2	2.03	0.41
8:UM:105:ARG:HG2	8:UM:411:GLU:OE1	2.21	0.41
9:UN:215:LEU:HD21	9:UN:273:LEU:HD22	2.03	0.41
9:VD:2:ARG:HD2	9:VD:131:GLN:HE21	1.86	0.41
9:VD:20:PHE:CD2	9:VD:233:MET:HG3	2.56	0.41
9:VD:49:VAL:HG11	9:VD:241:ARG:HB3	2.01	0.41
9:VD:165:ASN:OD1	9:VD:165:ASN:N	2.53	0.41
9:VD:280:GLN:HG2	9:VD:281:TYR:HD1	1.84	0.41
9:VF:237:THR:OG1	9:VF:237:THR:O	2.38	0.41
9:VH:267:MET:HA	9:VH:268:PRO:HD3	1.87	0.41
9:VJ:295:ASP:OD1	55:W:140:ASN:ND2	2.50	0.41
8:VK:241:SER:OG	8:VK:250:VAL:N	2.41	0.41
9:VN:100:ASN:HD21	9:VN:102:ALA:HB3	1.85	0.41
9:WB:117:LEU:HD23	9:WB:117:LEU:HA	1.89	0.41
9:WF:323:MET:HE3	8:WG:210:TYR:CE1	2.55	0.41
9:WL:323:MET:SD	9:WL:323:MET:N	2.93	0.41
9:WN:190:HIS:O	9:WN:414:ASN:ND2	2.53	0.41
9:WN:208:TYR:CZ	9:WN:225:LEU:HD11	2.56	0.41
56:XG:113:ARG:HA	56:XG:113:ARG:HD3	1.78	0.41
56:XM:72:LYS:HA	56:XM:72:LYS:HD2	1.57	0.41
57:YI:109:LEU:HD23	57:YI:109:LEU:HA	1.85	0.41
59:d:486:LYS:HB2	59:d:486:LYS:HE2	1.78	0.41
60:f:147:LYS:HG3	60:f:149:GLU:HG3	2.02	0.41
60:f:211:VAL:HB	60:f:227:THR:HG22	2.02	0.41
60:f:277:VAL:HG22	60:f:289:LYS:HB2	2.01	0.41
62:i:86:LEU:HD12	62:i:86:LEU:HA	1.91	0.41
63:m:31:SER:HB3	63:m:102:LEU:HD11	2.02	0.41
3:x:131:LEU:HD23	3:x:131:LEU:HA	1.88	0.41
4:y:1408:LYS:HE3	4:y:1409:GLU:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:185:CYS:SG	1:0:186:ARG:N	2.91	0.41
2:0A:142:ILE:H	2:0A:142:ILE:HG12	1.71	0.41
2:0C:117:LYS:HA	2:0C:117:LYS:HD3	1.79	0.41
2:0e:77:LEU:HD23	2:0e:77:LEU:HA	1.87	0.41
2:0e:117:LYS:HA	2:0e:117:LYS:HD3	1.79	0.41
2:0k:63:ASP:O	2:0k:67:LEU:HD22	2.21	0.41
3:1:96:ASP:OD1	3:1:96:ASP:N	2.54	0.41
4:3:1329:LYS:HA	4:3:1329:LYS:HD3	1.86	0.41
7:A4:200:TYR:N	9:QJ:125:GLU:OE1	2.44	0.41
7:A7:67:GLY:HA3	7:A7:68:PRO:HD3	1.86	0.41
8:AA:285:GLN:HB2	8:KC:57:GLY:H	1.85	0.41
9:AB:406:MET:HA	9:AB:409:THR:HG22	2.02	0.41
8:AC:231:ILE:O	8:AC:235:VAL:HG23	2.20	0.41
9:AD:216:LYS:HA	9:AD:216:LYS:HD2	1.85	0.41
9:AD:253:LEU:O	9:AD:257:MET:HG2	2.21	0.41
9:AD:262:ARG:HH21	9:AD:421:GLU:CD	2.29	0.41
9:AF:203:ASP:N	9:AF:203:ASP:OD1	2.54	0.41
9:AH:11:GLN:HG2	9:AH:72:THR:HG21	2.03	0.41
8:AI:122:ILE:HD13	8:AI:157:LEU:HD11	2.03	0.41
9:AJ:436:PHE:CZ	57:YH:203:LYS:HD2	2.56	0.41
8:AM:263:PRO:HG2	56:XG:116:PRO:HG2	2.03	0.41
10:AR:92:LEU:HD12	10:AR:92:LEU:HA	1.88	0.41
11:AT:241:ILE:HD13	11:AT:241:ILE:HA	1.94	0.41
11:AT:304:ARG:HA	11:AT:307:GLN:HG3	2.03	0.41
12:AV:349:THR:HG22	12:AV:351:ILE:H	1.86	0.41
12:AW:18:ALA:HB2	8:JK:282:TYR:CE2	2.55	0.41
12:AW:140:HIS:ND1	12:AW:143:ARG:HB2	2.36	0.41
13:Ab:531:ILE:HD12	13:Ab:531:ILE:HA	1.86	0.41
13:Ac:19:ARG:NH2	9:KH:115:SER:OG	2.53	0.41
13:Ac:61:ASP:OD1	13:Ac:61:ASP:N	2.53	0.41
13:Ac:475:PRO:HG3	13:Ac:500:ASN:HD21	1.85	0.41
13:Ac:531:ILE:HG12	13:Ac:591:ARG:HH11	1.85	0.41
13:Ad:567:THR:O	13:Ad:571:ILE:HG22	2.21	0.41
14:Ao:61:LYS:HE2	14:Ao:61:LYS:HB2	1.92	0.41
16:At:220:PRO:HD2	8:EK:123:ARG:HG2	2.02	0.41
7:Au:248:PRO:HA	9:FL:92:PHE:CZ	2.56	0.41
7:Av:227:THR:OG1	8:NG:113:GLU:OE1	2.33	0.41
7:Aw:20:MET:HE3	7:Aw:20:MET:HB3	1.86	0.41
7:Ay:199:GLN:HB3	9:GB:332:ASN:HB3	2.03	0.41
7:Ay:214:LEU:HD23	7:Ay:214:LEU:HA	1.87	0.41
7:Az:249:LEU:CD1	9:OL:92:PHE:HE2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BA:387:ALA:HA	8:BA:390:ARG:HE	1.86	0.41
8:BA:406:HIS:HA	8:BA:409:VAL:HG22	2.03	0.41
9:BB:163:ILE:HA	9:BB:163:ILE:HD12	1.72	0.41
8:BE:71:GLU:HA	8:BE:72:PRO:HD3	1.96	0.41
8:BG:138:PHE:HZ	8:BG:235:VAL:HG11	1.86	0.41
8:BG:221:ARG:NH1	14:Ba:229:PHE:O	2.48	0.41
9:BH:116:VAL:HG13	9:BH:151:LEU:HD21	2.03	0.41
8:BI:255:PHE:HA	8:BI:258:ASN:HB2	2.01	0.41
8:BI:326:LYS:NZ	9:BJ:219:THR:HA	2.36	0.41
9:BJ:3:GLU:OE1	9:BJ:62:ARG:NH2	2.54	0.41
9:BJ:200:TYR:HD1	9:BJ:266:PHE:HB2	1.86	0.41
8:BK:395:LEU:HD22	8:BK:422:ARG:HG3	2.02	0.41
9:BL:131:GLN:HE21	9:BL:250:LEU:HB2	1.84	0.41
9:BL:170:VAL:HG11	9:BL:377:LEU:HD21	2.03	0.41
9:BL:174:LYS:HA	9:BL:174:LYS:HD3	1.90	0.41
9:BL:199:THR:HG21	9:BL:265:PHE:CD2	2.55	0.41
8:BM:184:PRO:HG3	8:BM:394:LYS:HD3	2.03	0.41
8:BM:224:TYR:HD1	8:BM:224:TYR:HA	1.79	0.41
19:BP:312:LEU:HD12	19:BP:312:LEU:HA	1.94	0.41
19:BP:344:LEU:HD12	19:BP:344:LEU:HA	1.90	0.41
21:BV:252:LEU:HD21	9:LF:215:LEU:HD22	2.03	0.41
14:Ba:290:ILE:O	14:Ba:293:MET:HB2	2.21	0.41
14:Bb:103:ARG:H	14:Bb:103:ARG:HG2	1.65	0.41
23:Bf:93:MET:H	23:Bf:93:MET:HG2	1.64	0.41
23:Bf:112:ASP:OD1	23:Bf:112:ASP:N	2.44	0.41
24:Bh:118:HIS:CE1	8:GI:124:LYS:HD3	2.56	0.41
21:Bk:249:GLY:O	21:Bk:253:SER:OG	2.29	0.41
27:Bs:193:LYS:HB2	27:Bs:193:LYS:HE2	1.75	0.41
29:C1:273:LEU:HD23	29:C1:273:LEU:HA	1.90	0.41
28:C2:274:LEU:HD23	28:C2:274:LEU:HA	1.95	0.41
28:C2:458:ASP:OD2	28:C4:106:ASN:ND2	2.54	0.41
28:C3:281:VAL:HG22	28:C5:398:THR:HG21	2.03	0.41
28:C4:469:ASP:N	28:C4:469:ASP:OD1	2.54	0.41
28:C4:474:MET:HE3	28:C4:474:MET:HB3	1.83	0.41
28:C8:202:ARG:HH12	28:C8:215:VAL:HG21	1.86	0.41
9:CB:247:ASN:ND2	8:CC:71:GLU:OE2	2.54	0.41
8:CC:103:TYR:HD2	8:CC:413:MET:HE1	1.86	0.41
8:CC:305:CYS:SG	8:CC:306:ASP:N	2.94	0.41
9:CF:48:ASN:O	9:CF:62:ARG:NH2	2.40	0.41
8:CG:79:ARG:HA	8:CG:79:ARG:HD2	1.78	0.41
8:CG:183:GLU:HB2	8:CG:184:PRO:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CG:341:ILE:HD13	8:CG:341:ILE:HA	1.94	0.41
9:CH:83:GLN:O	9:DH:281:TYR:OH	2.27	0.41
9:CH:330:MET:HG2	9:CH:349:VAL:HG11	2.02	0.41
9:CJ:31:ASP:OD1	9:CJ:35:THR:N	2.50	0.41
9:CL:326:VAL:O	9:CL:330:MET:HG2	2.21	0.41
8:CM:259:LEU:HA	8:CM:314:ALA:HB1	2.02	0.41
8:CM:288:VAL:HG22	8:CM:373:ARG:HD3	2.03	0.41
8:CM:408:TYR:HB3	8:CM:413:MET:HE2	2.02	0.41
17:CR:14:THR:N	9:N0:355:ASP:OD2	2.51	0.41
17:CS:15:TYR:HE2	8:NK:18:ASN:HD21	1.67	0.41
2:CT:29:ALA:HB2	2:CT:63:ASP:HB3	2.03	0.41
30:CW:404:THR:HB	30:CW:405:LYS:H	1.74	0.41
2:CY:114:LEU:HD22	2:CY:144:ILE:HG13	2.03	0.41
2:Cb:26:PHE:HB2	2:Cb:66:ILE:HD11	2.03	0.41
2:Cb:128:CYS:HB3	2:Cb:132:ARG:NH1	2.35	0.41
2:Cc:35:GLU:O	2:Cc:38:HIS:ND1	2.54	0.41
2:Cc:102:LYS:O	2:Cc:106:SER:OG	2.39	0.41
2:Cd:8:SER:O	2:Cd:12:VAL:HG23	2.20	0.41
2:Cd:80:LEU:HD23	2:Cd:80:LEU:HA	1.90	0.41
2:Ce:92:PRO:HA	2:Ce:95:ASN:HB3	2.03	0.41
2:Ci:111:LEU:O	2:Ci:114:LEU:HB3	2.21	0.41
2:Ci:144:ILE:HA	2:Ci:147:ASP:HB2	2.03	0.41
2:Ck:99:GLU:O	2:Ck:103:THR:HG22	2.20	0.41
33:Cq:417:ARG:NH2	44:ES:404:ASN:O	2.54	0.41
33:Cr:29:GLU:HG2	33:Cr:32:ARG:HH21	1.86	0.41
33:Cu:214:SER:OG	33:Cu:215:LEU:N	2.54	0.41
33:Cw:115:GLU:OE2	33:Cw:393:THR:HG21	2.21	0.41
33:Cx:73:ARG:O	33:Cx:77:MET:HG2	2.21	0.41
29:Cz:268:GLU:OE1	29:Cz:269:LYS:HG3	2.21	0.41
29:D1:410:LEU:HB3	29:D2:292:THR:HB	2.03	0.41
29:D2:148:ARG:O	29:D2:152:ILE:HG13	2.21	0.41
29:D4:400:GLU:HA	29:D4:403:THR:HG23	2.02	0.41
29:D5:413:ASP:OD1	29:D5:413:ASP:N	2.52	0.41
29:D8:297:GLU:OE1	29:D8:297:GLU:N	2.53	0.41
29:D8:402:ARG:HE	29:D8:405:ARG:NH1	2.18	0.41
8:DA:241:SER:HB2	8:DA:249:ASN:HB2	2.03	0.41
9:DB:232:THR:HG22	9:DB:270:PHE:HB2	2.03	0.41
9:DB:372:THR:OG1	9:DB:422:TYR:O	2.38	0.41
9:DD:319:GLY:N	9:DD:354:CYS:O	2.54	0.41
8:DE:206:ASN:OD1	67:DE:501:GTP:N2	2.47	0.41
9:DF:182:PRO:HA	9:DF:381:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DG:119:LEU:HG	8:DG:156:ARG:HD3	2.02	0.41
9:DH:139:LEU:HB2	9:DH:171:PRO:HD3	2.02	0.41
9:DH:221:THR:OG1	9:DH:222:TYR:N	2.54	0.41
8:DI:140:SER:HB3	8:DI:146:GLY:HA3	2.02	0.41
9:DJ:52:ASN:OD1	9:DJ:62:ARG:NH1	2.54	0.41
9:DJ:255:VAL:HA	8:DK:407:TRP:CH2	2.55	0.41
9:DJ:263:LEU:HD11	9:DJ:422:TYR:CD1	2.55	0.41
9:DJ:358:PRO:HB2	9:DJ:361:LEU:HD12	2.03	0.41
8:DK:188:ILE:HD13	8:DK:188:ILE:HA	1.89	0.41
8:DK:237:SER:O	8:DK:237:SER:OG	2.36	0.41
8:DK:279:GLU:CD	8:DK:279:GLU:H	2.29	0.41
29:DQ:177:LYS:HB2	29:DQ:239:ILE:HG21	2.02	0.41
29:DS:335:LEU:HD23	29:DS:335:LEU:HA	1.88	0.41
29:DS:388:LYS:HE3	29:DS:430:LEU:HG	2.03	0.41
29:DX:201:ARG:HE	29:DX:471:LYS:HE3	1.86	0.41
38:Dh:141:GLN:NE2	38:Dh:149:GLY:O	2.54	0.41
39:Di:38:SER:OG	39:Di:86:GLU:OE1	2.34	0.41
43:E2:142:ARG:NH2	44:EV:206:GLU:OE2	2.39	0.41
29:EA:447:LEU:HD23	29:EA:447:LEU:HA	1.93	0.41
9:EB:189:VAL:HG11	9:EB:378:PHE:CE2	2.55	0.41
9:EB:268:PRO:O	9:EB:300:MET:HG2	2.21	0.41
9:EB:289:LEU:HD23	9:EB:289:LEU:HA	1.97	0.41
9:EB:306:ARG:HA	9:EB:340:TYR:HE1	1.86	0.41
8:EC:67:PHE:N	8:EC:91:GLN:O	2.47	0.41
8:EC:211:ASP:OD1	8:EC:211:ASP:N	2.54	0.41
9:ED:324:LYS:HA	9:ED:324:LYS:HD3	1.70	0.41
9:EF:91:VAL:HG11	9:EF:116:VAL:HG22	2.03	0.41
8:EG:55:GLU:OE1	8:EG:61:HIS:NE2	2.54	0.41
8:EG:328:VAL:O	8:EG:332:ILE:HG12	2.20	0.41
9:EH:142:GLY:N	69:EH:501:GDP:O2B	2.54	0.41
9:EH:326:VAL:O	9:EH:330:MET:HG2	2.21	0.41
8:EI:384:ILE:HD12	8:EI:384:ILE:HA	1.97	0.41
9:EJ:323:MET:HA	9:EJ:326:VAL:HB	2.03	0.41
8:EM:262:TYR:OH	9:EN:391:ARG:O	2.38	0.41
9:EN:74:ASP:OD1	9:EN:74:ASP:N	2.51	0.41
29:EP:288:LYS:H	29:EP:288:LYS:HG2	1.73	0.41
29:EP:478:THR:HG1	44:EW:108:GLN:NE2	2.19	0.41
44:EU:137:ARG:HE	44:EU:447:GLN:HB3	1.85	0.41
44:EX:107:LEU:HD23	44:EX:107:LEU:HA	1.95	0.41
42:F:451:LYS:HD3	42:F:451:LYS:HA	1.72	0.41
28:F3:417:GLN:NE2	28:F6:291:ASP:OD1	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:F4:462:LYS:HA	28:F4:462:LYS:HD3	1.88	0.41
9:FB:69:GLU:HA	9:FB:70:PRO:HD3	1.89	0.41
9:FB:105:HIS:CE1	9:FB:150:LEU:HB2	2.56	0.41
9:FB:215:LEU:HD23	9:FB:215:LEU:HA	1.87	0.41
8:FC:114:ILE:O	8:FC:118:VAL:HG22	2.20	0.41
9:FF:42:LEU:HD22	9:FF:356:ILE:HD11	2.02	0.41
9:FF:105:HIS:CD2	9:FF:150:LEU:HB2	2.56	0.41
9:FF:216:LYS:HD2	9:FF:216:LYS:HA	1.79	0.41
8:FG:172:TYR:CD1	8:FG:173:PRO:HD2	2.56	0.41
8:FG:188:ILE:HD12	8:FG:425:LEU:HD22	2.03	0.41
8:FI:406:HIS:HB3	8:FI:407:TRP:CZ3	2.56	0.41
9:FJ:7:LEU:HD12	9:FJ:7:LEU:HA	1.93	0.41
9:FJ:162:ARG:HD3	9:FJ:162:ARG:HA	1.66	0.41
8:FK:90:GLU:C	8:FK:121:ARG:HH12	2.28	0.41
8:FK:423:GLU:H	8:FK:423:GLU:HG2	1.76	0.41
9:FL:273:LEU:HD23	9:FL:273:LEU:HA	1.92	0.41
9:FL:330:MET:HE1	9:FL:349:VAL:HB	2.02	0.41
9:FL:371:SER:O	9:FL:422:TYR:OH	2.31	0.41
9:FL:417:ASP:OD1	9:FL:418:LEU:N	2.54	0.41
8:FM:284:GLU:N	8:FM:284:GLU:OE1	2.54	0.41
8:FM:301:GLN:HE21	8:FM:301:GLN:HB2	1.64	0.41
9:FN:72:THR:O	9:FN:75:SER:OG	2.31	0.41
9:FN:374:ILE:HD11	9:FN:422:TYR:CZ	2.56	0.41
45:G:563:ARG:HE	45:G:563:ARG:HB2	1.61	0.41
9:GB:322:SER:HB2	8:GC:221:ARG:HB3	2.03	0.41
8:GC:88:HIS:CE1	8:HC:284:GLU:HB2	2.56	0.41
8:GC:202:PHE:CD1	8:GC:268:PRO:HG2	2.56	0.41
8:GC:208:ALA:O	8:GC:212:ILE:HG23	2.21	0.41
9:GD:192:LEU:HD12	9:GD:192:LEU:HA	1.94	0.41
8:GE:254:GLU:OE2	9:GF:99:ASN:ND2	2.53	0.41
9:GJ:86:ARG:HH11	9:GJ:88:ASP:HB2	1.85	0.41
9:GJ:161:ASP:OD1	9:GJ:161:ASP:N	2.44	0.41
9:GJ:344:TRP:CD1	9:GJ:344:TRP:H	2.39	0.41
9:GN:68:LEU:HD12	9:GN:97:ALA:HB2	2.02	0.41
9:HB:10:GLY:HA2	9:HB:143:THR:HB	2.02	0.41
8:HC:175:PRO:HA	8:HC:390:ARG:NH1	2.35	0.41
8:HC:255:PHE:O	8:HC:259:LEU:HB2	2.20	0.41
9:HF:270:PHE:CE2	9:HF:272:PRO:HD2	2.55	0.41
9:HH:86:ARG:HH22	9:IH:282:ARG:HG3	1.86	0.41
9:HH:260:PHE:HE2	9:HH:425:TYR:CE2	2.35	0.41
9:HH:344:TRP:CE3	9:HH:345:ILE:HG13	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HI:24:TYR:HB3	8:HI:53:PHE:HZ	1.85	0.41
9:HJ:251:ARG:O	9:HJ:255:VAL:HG12	2.21	0.41
9:HJ:355:ASP:N	9:HJ:355:ASP:OD1	2.53	0.41
9:HL:275:SER:OG	9:HL:276:ARG:N	2.53	0.41
8:HM:305:CYS:SG	8:HM:306:ASP:N	2.94	0.41
9:HN:164:MET:HE2	9:HN:164:MET:HB2	1.64	0.41
8:HO:301:GLN:HE22	8:HO:307:PRO:HG3	1.86	0.41
47:I:294:ARG:HE	47:I:294:ARG:HB2	1.72	0.41
9:IB:64:VAL:HA	9:IB:89:ASN:HB3	2.02	0.41
8:IC:225:THR:HG22	8:IC:229:ARG:HD2	2.02	0.41
9:ID:207:LEU:HD23	9:ID:225:LEU:HB3	2.03	0.41
9:IH:107:THR:OG1	9:IH:401:GLU:OE2	2.32	0.41
9:IJ:163:ILE:HD13	9:IJ:163:ILE:HA	1.87	0.41
9:IN:2:ARG:HB3	9:IN:131:GLN:HB2	2.02	0.41
9:IN:263:LEU:HD11	9:IN:422:TYR:CE1	2.56	0.41
9:IN:299:MET:HE1	9:IN:305:PRO:HG3	2.02	0.41
48:J:118:THR:OG1	48:J:119:GLU:N	2.54	0.41
9:JD:271:ALA:HB2	9:JD:293:MET:SD	2.61	0.41
8:JE:21:TRP:CZ3	8:JE:63:PRO:HB3	2.56	0.41
8:JE:152:LEU:HD23	8:JE:152:LEU:HA	1.96	0.41
8:JE:244:PHE:HB2	8:JE:356:ASN:HD21	1.86	0.41
9:JF:330:MET:HG2	9:JF:349:VAL:HG11	2.02	0.41
8:JG:264:ARG:NH2	8:JG:424:ASP:OD1	2.54	0.41
9:JH:70:PRO:HB3	9:JH:92:PHE:HD2	1.86	0.41
9:JJ:112:LEU:HD23	9:JJ:147:MET:HE1	2.03	0.41
9:JL:107:THR:OG1	9:JL:108:GLU:N	2.53	0.41
9:JL:295:ASP:OD2	9:JL:296:ALA:N	2.54	0.41
8:JM:230:LEU:H	8:JM:230:LEU:HD12	1.85	0.41
8:JM:302:MET:HE3	8:JM:302:MET:HB2	1.79	0.41
9:JN:73:MET:HE2	9:JN:92:PHE:HB3	2.03	0.41
9:JN:416:ASN:HA	9:JN:419:VAL:HG22	2.02	0.41
49:K1:64:ASP:O	49:K1:68:LEU:HD13	2.21	0.41
49:K1:123:ALA:HA	49:K1:126:TRP:HD1	1.86	0.41
9:KB:152:ILE:HG12	9:KB:164:MET:HE2	2.02	0.41
8:KC:213:CYS:HA	8:KC:217:LEU:HD13	2.02	0.41
8:KC:308:ARG:H	8:KC:308:ARG:HG2	1.59	0.41
8:KE:68:VAL:HG11	8:KE:149:PHE:HE2	1.85	0.41
8:KG:175:PRO:HB3	8:KG:390:ARG:NH2	2.35	0.41
8:KG:191:THR:HB	8:KG:425:LEU:HD21	2.03	0.41
9:KH:31:ASP:OD1	9:KH:31:ASP:N	2.51	0.41
9:KJ:161:ASP:OD2	9:KJ:162:ARG:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KJ:336:LYS:HZ2	9:KJ:336:LYS:HG3	1.50	0.41
8:KM:362:VAL:HG11	8:KM:370:LYS:HB2	2.02	0.41
9:KN:86:ARG:HG2	9:KN:88:ASP:H	1.85	0.41
8:KO:3:GLU:HA	8:KO:51:THR:HA	2.02	0.41
50:L1:15:GLY:H	50:L1:16:LYS:NZ	2.19	0.41
50:L2:25:LEU:O	59:b:248:ARG:NE	2.54	0.41
8:LC:414:GLU:HG3	8:LC:416:GLY:H	1.86	0.41
8:LE:215:ARG:CZ	8:LE:215:ARG:HB2	2.50	0.41
9:LH:1:MET:HE2	9:LH:1:MET:HB2	1.98	0.41
9:LH:284:LEU:HD23	9:LH:284:LEU:HA	1.80	0.41
8:LI:70:LEU:HD13	8:LI:110:ILE:HG22	2.02	0.41
8:LM:195:LEU:HD23	8:LM:195:LEU:HA	1.86	0.41
9:MB:2:ARG:HB3	9:MB:131:GLN:HB2	2.02	0.41
9:MB:309:ARG:HG3	9:MB:426:GLN:HG3	2.03	0.41
8:ME:117:LEU:HA	8:ME:117:LEU:HD23	1.83	0.41
9:MF:303:CYS:HA	9:MF:376:GLU:OE2	2.20	0.41
9:MF:350:LYS:HD2	9:MF:351:THR:H	1.84	0.41
8:MG:188:ILE:HD13	8:MG:425:LEU:HD12	2.03	0.41
9:MH:215:LEU:HD11	9:MH:273:LEU:HD22	2.02	0.41
9:MJ:221:THR:HG23	9:MJ:223:GLY:H	1.86	0.41
8:MK:88:HIS:CD2	8:MK:90:GLU:HB2	2.56	0.41
8:MK:280:LYS:HD3	8:MK:280:LYS:HA	1.84	0.41
9:ML:295:ASP:OD2	9:ML:296:ALA:N	2.54	0.41
8:MM:29:GLY:HA3	8:MM:40:LYS:HD3	2.02	0.41
8:MM:315:CYS:HB3	8:MM:377:MET:HE3	2.03	0.41
9:MN:33:THR:HG23	9:MN:35:THR:HG23	2.02	0.41
9:NB:404:ASP:OD1	9:NB:406:MET:HE3	2.21	0.41
8:NC:172:TYR:CD1	8:NC:203:MET:HE1	2.56	0.41
9:ND:112:LEU:HD12	9:ND:112:LEU:HA	1.91	0.41
8:NE:119:LEU:HD21	8:NE:157:LEU:HD22	2.03	0.41
8:NE:326:LYS:HG3	8:NE:327:ASP:N	2.36	0.41
9:NF:6:HIS:HE1	9:NF:136:THR:HG23	1.86	0.41
9:NF:406:MET:SD	9:NF:406:MET:N	2.89	0.41
8:NG:27:GLU:HG2	8:NG:243:ARG:HH21	1.86	0.41
8:NG:47:ASP:OD1	8:NG:47:ASP:N	2.53	0.41
8:NG:164:LYS:HD2	8:NG:164:LYS:HA	1.90	0.41
8:NG:223:THR:OG1	8:NG:224:TYR:N	2.54	0.41
9:NH:19:LYS:HG3	9:NH:22:GLU:HG3	2.03	0.41
9:NH:67:ASP:OD2	9:NH:67:ASP:N	2.53	0.41
9:NH:321:MET:HE2	9:NH:321:MET:HB3	1.89	0.41
9:NJ:2:ARG:HB3	9:NJ:131:GLN:CD	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NJ:236:VAL:HG12	9:NJ:368:ILE:HD11	2.03	0.41
9:OB:151:LEU:HD23	9:OB:151:LEU:HA	1.90	0.41
9:OD:226:ASN:HA	9:OD:229:VAL:HG12	2.03	0.41
9:OF:143:THR:O	9:OF:147:MET:HG2	2.20	0.41
9:OF:207:LEU:HD21	9:OF:229:VAL:HG23	2.02	0.41
9:OF:299:MET:HE1	9:OF:305:PRO:HG3	2.02	0.41
8:OK:124:LYS:HE2	8:OK:124:LYS:HB2	1.84	0.41
9:OL:167:PHE:CZ	9:OL:233:MET:HG3	2.56	0.41
9:OL:267:MET:HA	9:OL:268:PRO:HD3	1.89	0.41
9:PB:198:GLU:HA	9:PB:264:HIS:HD2	1.86	0.41
8:PC:36:MET:HE3	8:PC:37:PRO:HD2	2.01	0.41
8:PC:70:LEU:HD13	8:PC:70:LEU:HA	1.87	0.41
8:PC:238:ILE:HD11	8:PC:378:LEU:HD21	2.02	0.41
9:PF:193:VAL:HG22	9:PF:265:PHE:HZ	1.85	0.41
8:PI:195:LEU:HD21	8:PI:428:LEU:HD12	2.03	0.41
8:PI:267:PHE:HB3	8:PI:384:ILE:HD13	2.03	0.41
8:PI:280:LYS:HE3	8:PI:280:LYS:HA	2.02	0.41
9:PJ:65:LEU:HD22	9:PJ:90:PHE:HE1	1.86	0.41
9:PJ:135:LEU:HD11	9:PJ:137:HIS:HB3	2.02	0.41
9:PJ:304:ASP:N	9:PJ:304:ASP:OD1	2.54	0.41
9:PJ:386:THR:O	9:PJ:390:ARG:HG2	2.20	0.41
9:PJ:394:PHE:HE1	9:PJ:397:TRP:HB2	1.85	0.41
9:PL:47:ILE:HG21	9:PL:59:TYR:HE2	1.86	0.41
8:QA:264:ARG:NH1	8:QA:431:ASP:OD2	2.54	0.41
9:QB:86:ARG:HD3	9:RB:282:ARG:NH2	2.35	0.41
9:QB:207:LEU:HB3	9:QB:225:LEU:HG	2.03	0.41
9:QD:60:VAL:HG11	9:RD:281:TYR:HD1	1.86	0.41
9:QD:83:GLN:O	9:QD:84:ILE:C	2.63	0.41
9:QD:318:ARG:HH12	9:QD:364:SER:HB3	1.86	0.41
8:QE:27:GLU:HG3	8:QE:28:HIS:ND1	2.36	0.41
8:QE:51:THR:HG21	8:QE:243:ARG:HG2	2.03	0.41
8:QE:106:GLY:HA2	8:QE:111:GLY:H	1.84	0.41
8:QE:237:SER:OG	8:QE:320:ARG:NH1	2.54	0.41
9:QF:148:GLY:O	9:QF:152:ILE:HG13	2.21	0.41
9:QH:257:MET:HE3	9:QH:314:ALA:HB2	2.02	0.41
8:QI:78:VAL:HG13	8:QI:92:LEU:HD13	2.02	0.41
8:QI:230:LEU:O	8:QI:234:ILE:HG12	2.21	0.41
9:QJ:8:GLN:HG3	9:QJ:65:LEU:HD22	2.03	0.41
8:QK:254:GLU:OE1	9:QL:99:ASN:HB2	2.21	0.41
8:QK:338:LYS:HA	8:QK:338:LYS:HD2	1.62	0.41
9:QL:135:LEU:HD13	9:QL:164:MET:HE1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QM:174:ALA:HB1	8:QM:207:GLU:HG2	2.02	0.41
8:QM:209:ILE:HG23	8:QM:212:ILE:HD11	2.03	0.41
8:RA:231:ILE:HD13	8:RA:231:ILE:HA	1.88	0.41
8:RA:320:ARG:HA	8:RA:356:ASN:HB2	2.03	0.41
9:RD:22:GLU:O	9:RD:26:ASP:HB2	2.21	0.41
8:RE:21:TRP:CZ3	8:RE:63:PRO:HB3	2.56	0.41
8:RE:88:HIS:CE1	8:RE:90:GLU:HB2	2.55	0.41
8:RE:217:LEU:HB3	8:RE:219:ILE:HG22	2.02	0.41
8:RE:417:GLU:O	8:RE:420:GLU:HG3	2.21	0.41
9:RF:392:LYS:HA	9:RF:392:LYS:HE2	2.03	0.41
8:RG:151:SER:O	8:RG:155:GLU:HG2	2.20	0.41
9:RH:113:VAL:O	9:RH:117:LEU:HB2	2.21	0.41
9:RH:149:THR:HB	9:RH:191:GLN:HG2	2.03	0.41
8:RI:11:GLN:HE22	8:RI:15:GLN:NE2	2.18	0.41
8:RI:233:GLN:HE22	8:RI:368:LEU:HD11	1.86	0.41
8:RI:264:ARG:HG3	8:RI:428:LEU:HD11	2.02	0.41
8:RI:368:LEU:HD23	8:RI:368:LEU:H	1.86	0.41
8:RI:414:GLU:OE2	8:RI:416:GLY:N	2.53	0.41
9:RJ:50:TYR:O	9:RJ:62:ARG:HB2	2.20	0.41
8:RK:120:ASP:O	8:RK:124:LYS:HG2	2.20	0.41
8:RK:370:LYS:H	8:RK:370:LYS:HG2	1.62	0.41
9:RL:193:VAL:HG23	9:RL:265:PHE:HE2	1.85	0.41
9:RL:271:ALA:HB1	9:RL:292:GLN:HB2	2.01	0.41
8:SA:332:ILE:O	8:SA:336:LYS:HG3	2.21	0.41
9:SF:6:HIS:CD2	9:SF:8:GLN:HE21	2.39	0.41
9:SF:318:ARG:O	9:SF:363:MET:HG3	2.21	0.41
9:SF:323:MET:HE2	8:SG:224:TYR:CD1	2.56	0.41
9:SH:374:ILE:HD13	9:SH:374:ILE:HG21	1.76	0.41
9:SJ:289:LEU:HD22	9:SJ:363:MET:HE2	2.02	0.41
9:SJ:380:ARG:HH21	9:SJ:381:ILE:HB	1.85	0.41
8:SK:313:MET:HE3	8:SK:313:MET:HB3	2.00	0.41
8:SK:324:VAL:HG11	9:SL:219:THR:HB	2.02	0.41
9:SL:322:SER:OG	8:SM:221:ARG:NH1	2.53	0.41
8:SM:55:GLU:OE1	8:SM:56:THR:N	2.54	0.41
8:SM:224:TYR:HE1	67:SM:501:GTP:C5	2.39	0.41
54:T:187:ARG:HE	54:T:187:ARG:HB2	1.61	0.41
9:TB:317:PHE:HD2	9:TB:321:MET:HE2	1.86	0.41
8:TC:317:MET:HB3	8:TC:319:TYR:CE1	2.56	0.41
9:TD:205:GLU:HA	9:TD:208:TYR:HD2	1.86	0.41
9:TD:427:ASP:OD1	9:TD:427:ASP:N	2.54	0.41
8:TG:23:LEU:O	8:TG:27:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TG:122:ILE:HD13	8:TG:122:ILE:HA	1.90	0.41
8:TG:202:PHE:CE1	8:TG:270:ALA:HB2	2.55	0.41
9:TH:299:MET:HE2	9:TH:299:MET:HB2	1.82	0.41
9:TH:396:HIS:HE1	9:TH:397:TRP:CH2	2.39	0.41
8:TI:69:ASP:OD1	8:TI:70:LEU:N	2.52	0.41
9:TJ:3:GLU:HG3	9:TJ:127:CYS:HB3	2.03	0.41
9:TJ:272:PRO:HB3	9:TJ:289:LEU:HD21	2.02	0.41
8:TK:88:HIS:CE1	8:TK:90:GLU:HB3	2.55	0.41
9:TL:31:ASP:HB3	9:TL:37:HIS:ND1	2.36	0.41
9:TL:385:PHE:CZ	9:TL:408:PHE:HD2	2.39	0.41
9:UB:356:ILE:HA	9:UB:356:ILE:HD13	1.83	0.41
8:UC:119:LEU:HD23	8:UC:119:LEU:HA	1.91	0.41
9:UD:256:ASN:CG	9:UD:350:LYS:HD2	2.46	0.41
9:UF:54:ALA:HA	9:VF:283:ALA:HB2	2.02	0.41
9:UF:194:GLU:HG2	9:UF:195:ASN:OD1	2.21	0.41
9:UF:253:LEU:HD12	9:UF:253:LEU:HA	1.90	0.41
9:UF:323:MET:HE2	9:UF:323:MET:HB2	1.82	0.41
9:UH:148:GLY:O	9:UH:152:ILE:HG12	2.20	0.41
9:UH:167:PHE:CD1	9:UH:233:MET:HE1	2.56	0.41
8:UI:152:LEU:HD23	8:UI:152:LEU:HA	1.91	0.41
8:UI:298:PRO:HG2	8:UI:308:ARG:NH2	2.35	0.41
9:UJ:163:ILE:HG12	9:UJ:251:ARG:HD3	2.02	0.41
9:UJ:271:ALA:O	9:UJ:273:LEU:N	2.50	0.41
9:UJ:284:LEU:HD23	9:UJ:362:LYS:HE2	2.03	0.41
8:UK:121:ARG:HH11	8:UK:124:LYS:HD3	1.85	0.41
8:UK:377:MET:HE1	8:UK:379:SER:HB3	2.03	0.41
9:UL:55:THR:OG1	59:b:284:MET:SD	2.77	0.41
9:UL:130:LEU:HB3	9:UL:162:ARG:HH21	1.86	0.41
9:UL:341:PHE:HB3	9:UL:348:ASN:ND2	2.36	0.41
8:UM:426:ALA:HA	8:UM:429:GLU:OE1	2.21	0.41
9:UN:289:LEU:HD12	9:UN:289:LEU:HA	1.93	0.41
1:V:154:THR:OG1	1:V:155:THR:N	2.54	0.41
8:VC:174:ALA:HB3	8:VC:177:VAL:O	2.20	0.41
8:VC:317:MET:SD	8:VC:377:MET:HE2	2.60	0.41
9:VD:155:ILE:HD12	9:VD:155:ILE:HA	1.92	0.41
9:VF:16:ILE:HG21	9:VF:136:THR:HG21	2.02	0.41
8:VG:103:TYR:HD1	8:VG:189:LEU:HD13	1.85	0.41
8:VG:121:ARG:HD2	8:VG:121:ARG:HA	1.71	0.41
8:VG:125:LEU:HD23	8:VG:125:LEU:HA	1.91	0.41
9:VH:209:ASP:O	9:VH:213:ARG:HG2	2.21	0.41
9:VH:324:LYS:NZ	8:VI:210:TYR:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VJ:142:GLY:N	69:VJ:501:GDP:O1B	2.54	0.41
9:VJ:252:LYS:HA	9:VJ:252:LYS:HE3	2.03	0.41
9:VJ:375:GLN:HG3	9:VJ:379:LYS:HZ2	1.86	0.41
8:VK:332:ILE:HG13	9:VL:175:VAL:HG11	2.03	0.41
9:VL:2:ARG:H	9:VL:2:ARG:HD3	1.86	0.41
9:VL:134:GLN:HB2	9:VL:167:PHE:CE2	2.56	0.41
8:VM:138:PHE:CE1	8:VM:169:PHE:CD2	3.09	0.41
9:VN:178:THR:HG22	9:VN:180:VAL:H	1.86	0.41
55:W:178:LYS:HD3	55:W:178:LYS:HA	1.79	0.41
9:WB:131:GLN:HE22	9:WB:250:LEU:H	1.69	0.41
9:WB:150:LEU:HD23	9:WB:150:LEU:HA	1.85	0.41
9:WB:374:ILE:HG21	9:WB:374:ILE:HD13	1.86	0.41
9:WB:378:PHE:HA	9:WB:381:ILE:HG22	2.03	0.41
8:WC:296:PHE:CE2	8:WC:377:MET:HE1	2.55	0.41
8:WC:310:GLY:HA3	8:WC:383:ALA:HB2	2.03	0.41
9:WD:10:GLY:O	9:WD:14:ASN:ND2	2.54	0.41
9:WD:16:ILE:HD13	9:WD:16:ILE:HA	1.90	0.41
9:WD:292:GLN:HE21	9:WD:298:ASN:ND2	2.19	0.41
9:WD:387:ALA:HA	9:WD:390:ARG:NH2	2.35	0.41
9:WF:19:LYS:HG2	9:WF:226:ASN:C	2.46	0.41
9:WF:261:PRO:O	9:WF:264:HIS:ND1	2.53	0.41
9:WH:101:TRP:CD1	9:WH:187:LEU:HD13	2.55	0.41
8:WI:335:ILE:O	8:WI:338:LYS:NZ	2.43	0.41
9:WJ:337:ASN:ND2	9:WJ:337:ASN:H	2.17	0.41
8:WK:362:VAL:HG22	8:WK:370:LYS:HD3	2.03	0.41
8:WM:316:CYS:HA	8:WM:352:LYS:HB3	2.02	0.41
9:WN:209:ASP:O	9:WN:213:ARG:HB2	2.21	0.41
47:X:110:SER:OG	47:X:113:GLU:HB3	2.20	0.41
56:XG:74:PRO:HD2	56:XG:169:ASP:HA	2.03	0.41
56:XM:47:LEU:HB3	56:XM:162:ILE:HB	2.02	0.41
47:Y:427:GLU:OE1	47:Y:427:GLU:N	2.52	0.41
47:Y:434:LYS:HA	47:Y:434:LYS:HD3	1.76	0.41
57:YH:149:LEU:HD23	57:YH:149:LEU:HA	1.91	0.41
57:YI:194:LEU:HD11	57:YI:244:ILE:HD13	2.03	0.41
57:YJ:48:MET:O	57:YJ:49:LYS:C	2.64	0.41
57:YJ:105:TYR:CE1	57:YJ:141:LYS:HE3	2.56	0.41
57:YK:199:ILE:HD13	57:YK:199:ILE:HA	1.94	0.41
58:Z:148:SER:O	58:Z:152:ILE:HG12	2.21	0.41
59:b:285:LEU:HA	59:b:285:LEU:HD12	1.89	0.41
59:c:183:MET:HE3	59:c:183:MET:O	2.21	0.41
59:d:390:LYS:O	59:d:394:GLU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:e:88:THR:HG22	60:e:89:PHE:H	1.86	0.41
60:e:148:ARG:H	60:e:148:ARG:HG2	1.56	0.41
60:e:227:THR:OG1	60:e:231:ASP:OD1	2.39	0.41
60:e:276:LEU:HD12	60:e:276:LEU:HA	1.92	0.41
60:e:343:PHE:HD1	60:e:344:PRO:HD2	1.85	0.41
60:f:394:SER:OG	60:f:396:TRP:NE1	2.54	0.41
60:f:599:SER:HB2	60:f:604:TYR:H	1.86	0.41
63:l:23:GLN:HB2	63:l:29:TYR:CE2	2.56	0.41
46:o:468:ILE:HD12	46:o:468:ILE:HA	1.88	0.41
65:r:164:ASP:OD1	65:r:164:ASP:N	2.54	0.41
65:t:69:LYS:HD2	65:t:69:LYS:HA	1.78	0.41
66:w:329:PRO:HA	66:w:332:LYS:HE3	2.02	0.41
3:x:127:HIS:HB3	3:x:191:LYS:HE3	2.03	0.41
3:x:137:LYS:O	3:x:140:ASN:N	2.50	0.41
3:x:225:LYS:HE2	3:x:226:ARG:HH21	1.86	0.41
4:y:1475:LEU:HD12	4:y:1475:LEU:HA	1.94	0.41
4:z:1348:VAL:HG22	4:z:1355:ILE:HG23	2.02	0.41
2:0E:39:ASP:OD1	2:0E:39:ASP:N	2.53	0.41
2:0Y:66:ILE:HD12	2:0Y:66:ILE:HA	1.98	0.41
2:0c:50:VAL:HA	2:0c:53:TYR:CD2	2.56	0.41
2:0k:149:MET:N	2:0k:149:MET:SD	2.94	0.41
3:1:267:LEU:HD23	3:1:267:LEU:HA	1.86	0.41
3:2:26:VAL:HG13	3:2:41:LYS:HB2	2.03	0.41
3:2:214:ASP:OD1	3:2:214:ASP:N	2.54	0.41
6:A0:145:GLY:O	9:IF:306:ARG:NH2	2.54	0.41
7:A1:225:LYS:HD3	7:A1:225:LYS:HA	1.82	0.41
7:A2:35:THR:HG21	8:QA:214:ARG:HD2	2.03	0.41
7:A9:77:LEU:HG	7:A9:78:ARG:H	1.86	0.41
9:AB:228:LEU:HD13	9:AB:300:MET:HE2	2.03	0.41
8:AC:213:CYS:HA	8:AC:217:LEU:HB2	2.03	0.41
8:AE:396:ASP:OD2	8:AE:422:ARG:NH2	2.51	0.41
9:AF:45:GLU:HG3	14:Ba:214:ILE:HD11	2.02	0.41
9:AJ:257:MET:HE3	9:AJ:257:MET:HB2	1.84	0.41
9:AL:232:THR:HG21	9:AL:268:PRO:HB3	2.04	0.41
9:AL:361:LEU:HG	20:BT:217:VAL:HG11	2.03	0.41
10:AQ:9:GLN:HG3	10:AQ:10:TYR:CE1	2.56	0.41
10:AQ:36:GLU:CD	4:z:1400:LYS:HE3	2.46	0.41
11:AT:329:LYS:HA	11:AT:329:LYS:HD3	1.82	0.41
11:AU:451:LEU:HD12	11:AU:451:LEU:HA	1.85	0.41
12:AV:93:LYS:HE3	12:AV:164:LEU:HD12	2.02	0.41
12:AW:124:LYS:HG2	12:AW:222:PHE:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:575:LEU:HD12	13:Ab:575:LEU:HA	1.90	0.41
7:Av:155:LYS:HB2	7:Av:155:LYS:HE2	1.86	0.41
5:B:126:TYR:OH	9:VF:42:LEU:HD23	2.20	0.41
17:B1:31:ASP:OD1	17:B1:31:ASP:N	2.48	0.41
8:BA:163:LYS:HA	8:BA:163:LYS:HD3	1.85	0.41
8:BC:346:TRP:O	9:BD:388:MET:HG3	2.21	0.41
9:BL:106:TYR:HE2	9:BL:403:MET:HE2	1.86	0.41
8:BM:119:LEU:HD11	8:BM:156:ARG:HB3	2.02	0.41
8:BM:254:GLU:O	8:BM:257:THR:OG1	2.32	0.41
19:BO:208:SER:OG	19:BO:209:MET:N	2.52	0.41
19:BP:224:LEU:HD23	19:BP:224:LEU:HA	1.87	0.41
19:BQ:338:GLN:OE1	19:BQ:341:ARG:NH2	2.45	0.41
19:BR:310:THR:O	19:BR:314:MET:HG2	2.21	0.41
22:BX:15:PRO:HB3	9:JN:218:THR:HA	2.03	0.41
14:Ba:262:LEU:HD12	14:Ba:262:LEU:HA	1.87	0.41
14:Bb:200:GLY:O	14:Bb:204:ARG:NE	2.48	0.41
28:C2:209:ASP:OD2	28:C2:465:SER:OG	2.35	0.41
28:C4:370:GLN:HA	32:Cp:399:PRO:HG2	2.02	0.41
28:C7:395:VAL:HG22	28:C8:281:VAL:HG11	2.03	0.41
28:C8:361:ILE:HD13	28:C8:458:ASP:HB3	2.03	0.41
8:CC:292:THR:OG1	8:CC:319:TYR:OH	2.37	0.41
8:CE:195:LEU:HD12	8:CE:195:LEU:HA	1.93	0.41
8:CI:195:LEU:HD12	8:CI:195:LEU:HA	1.92	0.41
2:CT:15:LYS:HA	2:CT:15:LYS:HD3	1.86	0.41
33:Cq:53:THR:HG21	33:Cr:307:LYS:HE3	2.01	0.41
33:Cu:289:GLU:OE1	33:Cu:366:LEU:HD13	2.21	0.41
33:Cv:73:ARG:O	33:Cv:77:MET:HG2	2.20	0.41
33:Cv:115:GLU:HG2	33:Cv:393:THR:HG21	2.03	0.41
33:Cv:136:GLU:HB3	33:Cv:261:THR:HG22	2.03	0.41
33:Cw:106:LYS:HE2	33:Cw:147:THR:HG21	2.03	0.41
33:Cw:144:ILE:HD13	33:Cw:144:ILE:HA	1.95	0.41
33:Cy:345:LEU:HD23	33:Cy:345:LEU:HA	1.83	0.41
29:D2:349:ARG:HA	29:D2:349:ARG:HD2	1.72	0.41
29:D2:447:LEU:HD23	29:D2:447:LEU:HA	1.90	0.41
29:D2:465:LEU:O	29:D2:469:LYS:HB3	2.21	0.41
29:D8:92:ARG:HA	29:D8:92:ARG:HD3	1.90	0.41
8:DC:318:LEU:HD23	8:DC:318:LEU:HA	1.88	0.41
8:DE:259:LEU:HD23	8:DE:259:LEU:HA	1.91	0.41
9:DF:143:THR:O	9:DF:147:MET:HB3	2.21	0.41
9:DH:412:GLU:HA	9:DH:415:MET:HG3	2.03	0.41
8:DI:274:PRO:HG3	8:DI:374:ALA:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:103:TYR:CE2	8:DK:148:GLY:HA2	2.56	0.41
8:DK:137:ILE:HB	8:DK:168:GLU:HB2	2.03	0.41
8:DM:147:SER:HB3	8:DM:190:THR:HG21	2.03	0.41
9:DN:101:TRP:HZ3	9:DN:187:LEU:HB3	1.85	0.41
29:DQ:253:LEU:O	29:DQ:257:LEU:HD23	2.21	0.41
29:DQ:331:LEU:HD12	29:DQ:331:LEU:HA	1.90	0.41
29:DS:200:GLN:O	29:DS:203:LYS:NZ	2.53	0.41
29:DS:224:MET:HE3	29:DS:224:MET:HB2	1.95	0.41
29:DS:366:LYS:HA	29:DS:366:LYS:HD3	1.94	0.41
29:DV:169:GLU:OE2	29:DV:321:ARG:NH2	2.43	0.41
29:DV:219:ILE:HD13	29:DV:219:ILE:HA	1.93	0.41
29:DX:204:ARG:HE	29:DX:204:ARG:HB2	1.74	0.41
36:Dd:174:ASP:OD2	36:Dd:178:LYS:NZ	2.54	0.41
38:Df:53:PHE:HE2	47:Y:361:ILE:HD11	1.86	0.41
39:Dk:76:LEU:HD12	39:Dk:76:LEU:HA	1.96	0.41
39:Dl:97:VAL:HA	39:Dl:100:LYS:HD2	2.03	0.41
29:EA:270:CYS:HB3	29:EO:398:ARG:HD3	2.03	0.41
29:EA:413:ASP:OD1	29:EA:413:ASP:N	2.34	0.41
9:EB:74:ASP:O	9:EB:78:SER:OG	2.28	0.41
9:EB:392:LYS:HD2	9:EB:392:LYS:HA	1.90	0.41
9:EF:7:LEU:HD11	9:EF:151:LEU:HD13	2.02	0.41
9:EF:138:SER:HA	9:EF:169:VAL:H	1.86	0.41
8:EG:259:LEU:HD13	8:EG:316:CYS:HB2	2.03	0.41
9:EN:202:ILE:HD13	9:EN:202:ILE:HA	1.87	0.41
9:EN:289:LEU:HD12	9:EN:289:LEU:HA	1.95	0.41
29:EO:116:ALA:HB2	29:EQ:447:LEU:HD11	2.03	0.41
29:EO:361:GLN:HA	29:EO:458:LEU:HD11	2.03	0.41
29:EP:235:LEU:HD22	29:EP:327:LEU:HD22	2.03	0.41
29:EP:477:LYS:HZ3	44:EW:115:SER:HB2	1.85	0.41
29:EQ:212:ASP:CB	29:EQ:349:ARG:HH12	2.33	0.41
29:EQ:371:ILE:CD1	29:EQ:447:LEU:HB3	2.50	0.41
44:EY:254:PRO:HA	44:EY:257:TRP:HB3	2.02	0.41
42:F:386:ILE:HD12	42:F:386:ILE:HA	1.83	0.41
28:F2:412:CYS:SG	28:F3:149:ARG:NH2	2.93	0.41
28:F6:278:SER:HB3	28:F6:279:ASP:H	1.76	0.41
9:FB:130:LEU:HD11	9:FB:133:PHE:HE1	1.86	0.41
9:FD:323:MET:HB2	9:FD:323:MET:HE2	1.75	0.41
9:FD:325:GLU:O	9:FD:329:GLN:HG2	2.21	0.41
8:FE:255:PHE:CE1	8:FE:318:LEU:HD21	2.56	0.41
8:FE:318:LEU:HD13	8:FE:318:LEU:HA	1.94	0.41
9:FF:163:ILE:HD13	9:FF:163:ILE:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FF:164:MET:HE3	9:FF:164:MET:HB3	1.88	0.41
8:FI:139:HIS:HE1	8:FI:168:GLU:HG2	1.86	0.41
8:FK:372:GLN:H	8:FK:372:GLN:HG2	1.60	0.41
9:FN:297:LYS:HD3	9:FN:297:LYS:HA	1.90	0.41
45:G:278:ILE:HD13	45:G:278:ILE:HA	1.95	0.41
8:GI:88:HIS:CE1	8:GI:90:GLU:HB2	2.56	0.41
8:GK:138:PHE:CE1	8:GK:169:PHE:HD2	2.39	0.41
8:GK:397:LEU:HA	8:GK:397:LEU:HD23	1.84	0.41
9:GN:393:ALA:O	9:GN:395:LEU:N	2.54	0.41
8:HC:223:THR:OG1	8:HC:224:TYR:N	2.53	0.41
9:HD:43:GLN:H	9:HD:43:GLN:HG2	1.69	0.41
8:HE:305:CYS:SG	8:HE:387:ALA:HB2	2.61	0.41
9:HF:22:GLU:CD	9:HF:81:PHE:HD1	2.29	0.41
9:HF:311:LEU:HD23	9:HF:342:VAL:HG11	2.03	0.41
8:HG:265:ILE:HD12	8:HG:432:TYR:CE1	2.55	0.41
8:HI:10:GLY:HA2	8:HI:145:THR:HG23	2.03	0.41
8:HI:391:LEU:HD12	8:HI:391:LEU:HA	1.86	0.41
8:HK:144:GLY:N	67:HK:501:GTP:O2G	2.54	0.41
8:HK:352:LYS:HG2	9:HL:179:VAL:HG23	2.02	0.41
9:HL:246:LEU:HD12	9:HL:246:LEU:HA	1.89	0.41
9:IF:19:LYS:HD3	9:IF:19:LYS:HA	1.87	0.41
9:IF:311:LEU:HD23	9:IF:342:VAL:HG11	2.02	0.41
9:IH:267:MET:HE1	9:IH:305:PRO:HG3	2.02	0.41
8:II:288:VAL:HG13	8:II:319:TYR:HE2	1.85	0.41
9:IL:101:TRP:CE3	9:IL:187:LEU:HD23	2.56	0.41
8:IO:115:VAL:HB	8:IO:152:LEU:HD21	2.02	0.41
9:JB:406:MET:SD	9:N0:306:ARG:NE	2.90	0.41
9:JD:263:LEU:HD22	9:JD:422:TYR:CE1	2.55	0.41
9:JF:321:MET:HE2	9:JF:321:MET:HB3	1.82	0.41
9:JH:246:LEU:HD12	9:JH:246:LEU:HA	1.92	0.41
8:JI:47:ASP:OD1	8:JI:47:ASP:N	2.53	0.41
8:JK:33:ASP:OD2	8:JK:33:ASP:N	2.44	0.41
8:JK:105:ARG:HA	8:JK:109:THR:HG23	2.01	0.41
8:JK:108:TYR:HE2	8:JK:413:MET:HG3	1.86	0.41
9:JL:28:HIS:NE2	9:JL:241:ARG:HD2	2.36	0.41
9:JN:7:LEU:HD23	9:JN:64:VAL:HB	2.03	0.41
49:K1:59:LEU:HD12	49:K1:59:LEU:HA	1.95	0.41
49:K1:61:GLU:N	49:K1:61:GLU:OE1	2.53	0.41
9:KB:253:LEU:HD23	9:KB:253:LEU:HA	1.95	0.41
8:KC:166:LYS:HB2	8:KC:166:LYS:HE3	1.86	0.41
8:KC:172:TYR:HE2	8:KC:387:ALA:HB1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KD:184:ASN:O	9:KD:188:SER:OG	2.38	0.41
8:KI:5:ILE:HD12	8:KI:125:LEU:HB3	2.04	0.41
9:KJ:8:GLN:HE21	9:KJ:65:LEU:HG	1.85	0.41
9:LB:5:VAL:HG22	9:LB:62:ARG:HD3	2.02	0.41
9:LB:145:SER:O	9:LB:149:THR:HG23	2.21	0.41
8:LG:296:PHE:CZ	8:LG:377:MET:HE1	2.55	0.41
9:LL:324:LYS:HD3	8:LM:222:PRO:HD2	2.03	0.41
8:LM:21:TRP:HA	8:LM:24:TYR:HB2	2.03	0.41
8:MC:123:ARG:HD2	8:MC:123:ARG:HA	1.77	0.41
8:ME:221:ARG:HD2	8:ME:221:ARG:HA	1.92	0.41
8:MG:273:ALA:HB2	8:MG:295:CYS:SG	2.61	0.41
9:MH:11:GLN:HA	9:MH:72:THR:HG21	2.03	0.41
8:MK:93:ILE:H	8:MK:93:ILE:HG12	1.74	0.41
9:MN:311:LEU:HD12	9:MN:311:LEU:HA	1.85	0.41
9:MN:337:ASN:OD1	9:MN:337:ASN:N	2.46	0.41
9:NF:66:VAL:HG23	9:NF:91:VAL:HG12	2.02	0.41
9:NF:140:GLY:HA3	9:NF:181:GLU:HG2	2.03	0.41
9:NH:52:ASN:OD1	9:NH:52:ASN:N	2.52	0.41
9:NH:130:LEU:HD12	9:NH:130:LEU:HA	1.90	0.41
9:NH:184:ASN:OD1	9:NH:184:ASN:N	2.53	0.41
9:NH:356:ILE:HD13	9:NH:356:ILE:HA	1.91	0.41
8:NK:322:ASP:O	8:NK:373:ARG:NH1	2.54	0.41
9:NL:2:ARG:HD2	9:NL:131:GLN:HE21	1.86	0.41
9:OB:122:LYS:HD2	9:OB:122:LYS:HA	1.55	0.41
9:OD:105:HIS:CD2	9:OD:150:LEU:HB2	2.55	0.41
8:OE:166:LYS:N	8:OE:199:ASP:OD2	2.42	0.41
8:OG:370:LYS:HE3	8:OG:370:LYS:HB3	1.90	0.41
9:OL:84:ILE:HD12	9:OL:84:ILE:HA	1.94	0.41
8:PA:218:ASP:OD1	8:PA:218:ASP:N	2.51	0.41
8:PA:232:GLY:HA2	8:PA:235:VAL:HG22	2.03	0.41
9:PB:219:THR:O	9:PB:219:THR:OG1	2.29	0.41
9:PF:376:GLU:HA	9:PF:379:LYS:HG2	2.03	0.41
8:PM:3:GLU:HG3	8:PM:129:CYS:SG	2.61	0.41
53:Q:86:LYS:HE3	53:Q:86:LYS:HB3	1.86	0.41
8:QC:188:ILE:HD12	8:QC:425:LEU:HD22	2.02	0.41
8:QE:75:VAL:HG13	8:QE:92:LEU:HD12	2.03	0.41
9:QH:286:VAL:O	9:QH:290:THR:HG23	2.21	0.41
8:QI:141:PHE:HB2	8:QI:173:PRO:HD3	2.03	0.41
9:QJ:190:HIS:NE2	9:QJ:410:GLU:OE1	2.49	0.41
8:QM:153:LEU:HD23	8:QM:153:LEU:HA	1.90	0.41
8:RA:430:LYS:HD2	8:RA:430:LYS:HA	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RB:8:GLN:O	9:RB:66:VAL:HG22	2.20	0.41
9:RB:168:SER:O	9:RB:202:ILE:HG22	2.21	0.41
8:RC:60:LYS:HE2	8:RC:60:LYS:HB2	1.92	0.41
8:RE:286:LEU:HB3	8:RE:373:ARG:HD2	2.03	0.41
9:RH:58:LYS:HD2	9:RH:58:LYS:HA	1.78	0.41
9:RJ:103:LYS:HG2	9:RJ:108:GLU:HG3	2.03	0.41
8:RK:9:VAL:HG21	8:RK:150:ALA:HB2	2.02	0.41
9:RL:113:VAL:HG11	9:RL:154:LYS:NZ	2.18	0.41
8:RM:230:LEU:HD22	8:RM:368:LEU:HD21	2.02	0.41
9:SF:346:PRO:HB2	8:SG:394:LYS:NZ	2.36	0.41
8:SK:313:MET:SD	8:SK:313:MET:N	2.93	0.41
9:TB:285:THR:HG23	9:TB:287:PRO:HD2	2.03	0.41
8:TG:260:VAL:HG23	8:TG:265:ILE:O	2.21	0.41
9:TH:221:THR:OG1	9:TH:222:TYR:N	2.54	0.41
9:TH:271:ALA:O	9:TH:292:GLN:NE2	2.53	0.41
8:TI:209:ILE:HG13	8:TI:302:MET:HE1	2.02	0.41
8:TI:414:GLU:CD	8:TI:416:GLY:H	2.29	0.41
9:TJ:414:ASN:HA	9:TJ:417:ASP:HB2	2.03	0.41
9:TL:193:VAL:HG12	9:TL:265:PHE:CZ	2.54	0.41
8:TM:76:ASP:HA	8:TM:79:ARG:HB2	2.03	0.41
54:U:192:TRP:O	54:U:196:GLN:HB2	2.20	0.41
9:UD:1:MET:HE2	9:UD:1:MET:HA	2.02	0.41
8:UE:64:ARG:HD3	8:UE:128:LEU:HD11	2.03	0.41
9:UF:117:LEU:HA	9:UF:120:VAL:HG12	2.03	0.41
9:UH:60:VAL:HG11	9:VH:281:TYR:HB3	2.03	0.41
9:UH:423:GLN:NE2	9:UH:426:GLN:OE1	2.47	0.41
8:UK:239:THR:O	8:UK:243:ARG:NE	2.51	0.41
8:UM:209:ILE:HD12	8:UM:227:LEU:HD21	2.03	0.41
9:VB:41:ASP:N	9:VB:41:ASP:OD1	2.54	0.41
9:VD:44:LEU:HD12	9:VD:44:LEU:HA	1.96	0.41
8:VE:207:GLU:HA	8:VE:210:TYR:CD2	2.56	0.41
9:VF:191:GLN:NE2	9:VF:192:LEU:HG	2.36	0.41
8:VG:313:MET:HG2	8:VG:344:VAL:HG11	2.03	0.41
9:VL:101:TRP:N	9:VL:184:ASN:OD1	2.54	0.41
9:WD:194:GLU:OE1	9:WD:194:GLU:N	2.46	0.41
9:WD:284:LEU:HD23	9:WD:284:LEU:HA	1.89	0.41
9:WD:395:LEU:H	9:WD:395:LEU:HD12	1.86	0.41
8:WI:137:ILE:HG13	8:WI:154:MET:HE3	2.03	0.41
57:YH:203:LYS:HA	57:YH:203:LYS:HD3	1.83	0.41
57:YL:81:PHE:HA	57:YL:82:PRO:HD3	1.89	0.41
57:YL:85:LEU:HD12	57:YL:85:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:b:246:ARG:HA	59:b:246:ARG:HD3	1.85	0.41
59:b:261:GLU:O	59:b:265:LYS:HG2	2.20	0.41
60:e:54:ALA:H	60:e:59:GLU:HB3	1.86	0.41
60:g:434:ARG:NH2	60:g:457:GLU:OE1	2.54	0.41
60:g:444:VAL:HG13	60:g:460:LEU:HB2	2.03	0.41
63:k:38:ASP:OD1	63:k:38:ASP:N	2.51	0.41
63:m:29:TYR:HE2	63:m:100:ARG:HD2	1.86	0.41
66:u:392:LYS:O	66:u:396:LEU:HD22	2.21	0.41
3:x:117:ALA:HB2	3:x:267:LEU:HD22	2.03	0.41
2:0G:33:CYS:HA	2:0G:58:CYS:HB3	2.03	0.40
3:2:222:ARG:HA	3:2:222:ARG:HD3	1.79	0.40
6:A0:183:LEU:O	9:ID:306:ARG:NH2	2.37	0.40
7:A3:80:GLY:HA3	8:PK:96:LYS:HG2	2.01	0.40
7:A7:231:PRO:HB3	8:SA:214:ARG:HH21	1.85	0.40
9:AB:45:GLU:OE2	14:Bb:215:GLN:NE2	2.54	0.40
9:AB:436:PHE:CG	57:YL:203:LYS:HE3	2.56	0.40
9:AF:78:SER:HB3	13:Ac:115:ILE:HG23	2.04	0.40
9:AF:86:ARG:HG2	9:AF:88:ASP:H	1.85	0.40
8:AG:9:VAL:HG23	8:AG:139:HIS:HB3	2.03	0.40
9:AH:172:SER:HB3	9:AH:175:VAL:HB	2.04	0.40
8:AI:103:TYR:CD1	8:AI:148:GLY:HA2	2.55	0.40
8:AI:265:ILE:HG23	8:AI:432:TYR:CZ	2.56	0.40
9:AJ:67:ASP:OD1	9:AJ:72:THR:OG1	2.39	0.40
8:AK:317:MET:HE3	8:AK:317:MET:HB3	1.95	0.40
10:AP:96:ILE:HD13	10:AP:96:ILE:HA	1.97	0.40
12:AV:124:LYS:HE3	12:AV:273:GLN:OE1	2.21	0.40
13:Aa:98:THR:CG2	13:Aa:119:ARG:HG2	2.50	0.40
13:Ad:575:LEU:HD23	13:Ad:575:LEU:HA	1.81	0.40
13:Ad:586:ILE:HD13	13:Ad:586:ILE:HA	1.92	0.40
14:Al:25:PRO:HG3	9:DD:44:LEU:HD11	2.04	0.40
14:Am:54:SER:HA	9:DH:41:ASP:HB2	2.02	0.40
18:B6:52:MET:HE3	9:KL:337:ASN:HD22	1.85	0.40
8:BA:385:ALA:HA	8:BA:388:TRP:HE3	1.86	0.40
8:BC:209:ILE:HA	8:BC:212:ILE:HG12	2.02	0.40
8:BG:109:THR:HA	8:BG:112:LYS:NZ	2.36	0.40
8:BI:395:LEU:O	8:BI:399:TYR:HB2	2.21	0.40
8:BK:121:ARG:HH12	8:BK:124:LYS:HG2	1.86	0.40
8:BM:105:ARG:HG2	8:BM:411:GLU:HG2	2.03	0.40
8:BM:259:LEU:HD12	8:BM:259:LEU:HA	1.95	0.40
19:BR:94:THR:HG1	19:BR:96:TRP:HD1	1.66	0.40
20:BT:142:ALA:HA	32:Co:205:VAL:HG23	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Bg:24:THR:HG23	23:Bg:70:VAL:HG13	2.03	0.40
21:Bj:90:LEU:HD12	21:Bj:90:LEU:HA	1.94	0.40
28:C0:378:THR:HG23	28:C9:124:THR:HG21	2.03	0.40
28:C3:163:GLU:OE2	28:C3:315:ARG:NH1	2.54	0.40
28:C4:81:LEU:HA	28:C4:82:PRO:HD3	1.84	0.40
28:C4:240:ALA:HA	28:C4:321:LEU:HD21	2.03	0.40
28:C8:448:LEU:HD23	28:C8:448:LEU:HA	1.90	0.40
28:C9:474:MET:C	28:C9:478:ARG:HH21	2.29	0.40
9:CH:116:VAL:HG21	9:CH:151:LEU:HD11	2.03	0.40
14:CN:234:GLY:HA2	8:FC:222:PRO:HA	2.03	0.40
17:CR:40:ASN:HB3	17:CR:43:VAL:HG22	2.02	0.40
2:Ce:142:ILE:H	2:Ce:142:ILE:HG13	1.62	0.40
2:Cf:47:ILE:HG21	2:Cf:74:CYS:SG	2.61	0.40
2:Cg:17:LYS:HE2	2:Cg:17:LYS:HB2	1.93	0.40
2:Cg:124:ASN:HA	8:OC:85:GLN:HE21	1.86	0.40
2:Ci:98:LEU:HG	2:Ci:102:LYS:HZ2	1.87	0.40
32:Cm:7:GLN:HA	32:Cm:8:PRO:HD3	1.96	0.40
32:Cn:125:ILE:HD12	32:Cn:125:ILE:HA	1.94	0.40
33:Cs:43:ARG:HD3	33:Cs:46:ARG:HH12	1.85	0.40
33:Cu:287:LEU:HG	33:Cu:370:LEU:HD11	2.03	0.40
29:D1:273:LEU:HD23	29:D1:273:LEU:HA	1.95	0.40
29:D2:388:LYS:HA	29:D2:388:LYS:HD3	1.93	0.40
29:D3:113:ARG:NH1	29:D4:367:THR:HA	2.35	0.40
29:D5:325:GLN:HA	29:D5:328:PHE:CD2	2.56	0.40
29:D5:346:PHE:HE2	29:D5:472:CYS:HB3	1.86	0.40
29:D8:425:THR:HG21	29:D9:137:MET:HE3	2.03	0.40
8:DA:68:VAL:HA	8:DA:93:ILE:HG22	2.03	0.40
8:DC:136:LEU:HD23	8:DC:138:PHE:CZ	2.56	0.40
9:DF:14:ASN:HD21	9:DF:67:ASP:HB2	1.85	0.40
9:DH:4:ILE:CD1	9:DH:49:VAL:HG13	2.52	0.40
9:DH:190:HIS:CD2	9:DH:414:ASN:HB2	2.55	0.40
9:DH:286:VAL:HG22	9:DH:363:MET:HE1	2.03	0.40
9:DJ:165:ASN:ND2	9:DJ:250:LEU:HD12	2.36	0.40
8:DK:306:ASP:HA	8:DK:307:PRO:HD3	1.92	0.40
28:DO:274:LEU:HD12	28:DO:274:LEU:HA	1.87	0.40
29:DQ:316:ASN:HA	29:DQ:319:ARG:CZ	2.50	0.40
29:DS:349:ARG:HH12	29:DS:353:GLU:HG2	1.86	0.40
29:DU:203:LYS:HE2	29:DU:203:LYS:HB2	1.90	0.40
39:Dj:40:LYS:HE3	39:Dj:40:LYS:HB3	1.68	0.40
42:E:805:LYS:HB2	42:E:805:LYS:HE3	1.76	0.40
42:E:847:LYS:HZ1	42:E:861:VAL:HG13	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:E1:65:THR:HG22	28:F3:302:LYS:HE2	2.03	0.40
9:ED:174:LYS:HG2	9:ED:205:GLU:OE2	2.21	0.40
8:EE:417:GLU:CD	8:EE:417:GLU:H	2.29	0.40
8:EI:161:TYR:HB3	8:EI:164:LYS:HG3	2.03	0.40
8:EI:274:PRO:HG3	8:EI:374:ALA:HA	2.03	0.40
9:EJ:313:VAL:N	9:EJ:348:ASN:O	2.50	0.40
8:EK:345:ASP:OD1	8:EK:345:ASP:N	2.43	0.40
9:EL:190:HIS:CD2	9:EL:411:ALA:HA	2.56	0.40
29:EO:159:LEU:HD13	29:EO:253:LEU:HD12	2.03	0.40
29:EQ:213:ASN:HA	29:EQ:216:LYS:HZ2	1.84	0.40
29:EQ:469:LYS:HD2	29:EQ:469:LYS:HA	1.80	0.40
44:EV:106:ARG:HG3	44:EV:110:MET:HE2	2.02	0.40
44:EV:259:LYS:HB2	44:EV:259:LYS:HE2	1.86	0.40
44:EV:312:GLU:OE1	8:LI:37:PRO:HB2	2.21	0.40
44:EW:286:LEU:HD23	44:EW:286:LEU:HA	1.81	0.40
44:EW:439:THR:N	44:EW:442:GLN:OE1	2.38	0.40
44:EY:164:HIS:CD2	28:F3:470:GLN:HB3	2.56	0.40
42:F:366:THR:HG23	42:F:369:ILE:HD12	2.03	0.40
42:F:511:TRP:HH2	9:IL:282:ARG:HD3	1.86	0.40
8:FC:93:ILE:H	8:FC:93:ILE:HG13	1.58	0.40
8:FC:348:PRO:HD2	9:FD:388:MET:HE3	2.02	0.40
9:FD:152:ILE:HD13	9:FD:152:ILE:HA	1.89	0.40
9:FD:284:LEU:H	9:FD:288:GLU:CD	2.24	0.40
8:FE:277:SER:HG	8:FE:280:LYS:NZ	2.16	0.40
9:FF:68:LEU:HD12	9:FF:143:THR:HB	2.03	0.40
8:FG:68:VAL:HG11	8:FG:149:PHE:HE1	1.86	0.40
8:FI:276:ILE:CD1	8:FI:280:LYS:HE3	2.51	0.40
8:FK:28:HIS:HE2	8:FK:243:ARG:HD3	1.87	0.40
8:FK:180:ALA:HB3	8:FK:183:GLU:HG3	2.02	0.40
9:GB:103:LYS:HE2	9:GB:103:LYS:HB2	1.97	0.40
9:GD:117:LEU:HA	9:GD:120:VAL:HG12	2.02	0.40
8:GE:11:GLN:HE21	8:GE:15:GLN:NE2	2.19	0.40
8:GE:51:THR:HG21	8:GE:243:ARG:HD3	2.04	0.40
8:GE:246:GLY:HA3	8:GE:356:ASN:HA	2.02	0.40
8:GE:348:PRO:HD2	9:GF:388:MET:HE3	2.02	0.40
8:GE:413:MET:HE3	8:GE:413:MET:N	2.36	0.40
8:GE:422:ARG:HA	8:GE:422:ARG:HD2	1.78	0.40
8:GG:115:VAL:HG21	8:GG:152:LEU:HD23	2.02	0.40
9:GH:386:THR:O	9:GH:390:ARG:NH1	2.55	0.40
8:GK:139:HIS:ND1	8:GK:140:SER:O	2.55	0.40
9:GL:19:LYS:HD2	9:GL:19:LYS:HA	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GL:219:THR:O	9:GL:219:THR:OG1	2.35	0.40
8:GM:153:LEU:HD12	8:GM:153:LEU:HA	1.81	0.40
9:HD:132:GLY:HA2	9:HD:162:ARG:HG3	2.02	0.40
9:HD:219:THR:O	9:HD:219:THR:OG1	2.36	0.40
9:HF:265:PHE:HD1	9:HF:422:TYR:HE2	1.68	0.40
8:HG:287:SER:OG	8:HG:290:GLU:OE2	2.37	0.40
9:HH:404:ASP:HB3	9:HH:406:MET:SD	2.60	0.40
9:HJ:88:ASP:OD1	9:HJ:88:ASP:N	2.53	0.40
9:HL:203:ASP:HB2	9:HL:301:ALA:HA	2.02	0.40
8:HO:195:LEU:HD11	8:HO:428:LEU:HD22	2.04	0.40
47:I:430:PHE:HA	47:I:431:PRO:HD3	1.95	0.40
9:ID:113:VAL:HG11	9:ID:150:LEU:HD23	2.02	0.40
8:IG:26:LEU:HD11	8:IG:364:PRO:HD3	2.02	0.40
9:IH:19:LYS:HD2	9:IH:19:LYS:HA	1.93	0.40
9:IH:24:ILE:HD11	9:IH:234:SER:HB2	2.03	0.40
9:IH:330:MET:HB3	9:IH:349:VAL:HG21	2.04	0.40
8:II:345:ASP:OD1	8:II:345:ASP:N	2.44	0.40
8:II:427:ALA:HA	8:II:430:LYS:HG2	2.03	0.40
9:IL:284:LEU:HD23	9:IL:284:LEU:HA	1.86	0.40
9:IL:362:LYS:HD3	9:IL:362:LYS:HA	1.87	0.40
8:IM:77:GLU:H	8:IM:77:GLU:HG3	1.70	0.40
8:IO:17:GLY:HA2	8:IO:20:CYS:SG	2.61	0.40
9:JD:174:LYS:HD3	9:JD:174:LYS:HA	1.70	0.40
8:JE:26:LEU:HD12	8:JE:26:LEU:HA	1.83	0.40
8:JE:413:MET:HG2	8:JE:414:GLU:H	1.84	0.40
8:JI:88:HIS:HE2	8:MI:284:GLU:HG3	1.86	0.40
48:K:47:ARG:HD2	48:K:47:ARG:HA	1.92	0.40
9:KL:429:THR:O	9:KL:429:THR:OG1	2.38	0.40
9:KN:66:VAL:HB	9:KN:147:MET:HE1	2.03	0.40
8:KO:193:THR:O	8:KO:193:THR:OG1	2.38	0.40
50:L1:131:ASN:HD22	9:WD:221:THR:HG23	1.85	0.40
9:LB:114:ASP:OD1	9:LB:114:ASP:N	2.54	0.40
9:LB:156:ARG:HH11	9:LB:164:MET:HB2	1.86	0.40
8:LC:98:ASP:OD1	8:LC:99:ALA:N	2.53	0.40
9:LD:48:ASN:C	9:LD:48:ASN:HD22	2.29	0.40
8:LI:326:LYS:HA	8:LI:326:LYS:HD2	1.79	0.40
8:LM:17:GLY:HA2	8:LM:20:CYS:HB2	2.04	0.40
8:LM:308:ARG:HE	8:LM:308:ARG:HB2	1.62	0.40
9:MB:203:ASP:OD2	9:MB:205:GLU:HG2	2.21	0.40
9:MB:372:THR:HA	9:MB:422:TYR:HD2	1.86	0.40
8:MC:286:LEU:HD23	8:MC:286:LEU:HA	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MD:299:MET:HE2	9:MD:299:MET:HB2	1.91	0.40
8:MG:64:ARG:HG2	8:MG:125:LEU:HD22	2.04	0.40
9:N0:324:LYS:HB2	9:N0:328:GLU:HG2	2.02	0.40
9:ND:295:ASP:OD1	9:ND:297:LYS:N	2.45	0.40
8:NE:335:ILE:HD13	8:NE:338:LYS:NZ	2.35	0.40
8:NI:142:GLY:O	8:NI:186:ASN:ND2	2.45	0.40
8:OA:296:PHE:CE2	8:OA:377:MET:HE1	2.55	0.40
9:OD:64:VAL:HG21	9:OD:120:VAL:HG22	2.03	0.40
9:OD:152:ILE:HG13	9:OD:195:ASN:ND2	2.36	0.40
9:OD:177:ASP:OD1	9:OD:177:ASP:N	2.52	0.40
9:OF:34:GLY:HA3	9:OF:58:LYS:HE3	2.03	0.40
9:OJ:378:PHE:O	9:OJ:381:ILE:HG22	2.21	0.40
8:PE:257:THR:HA	9:PF:397:TRP:CZ3	2.56	0.40
9:PF:28:HIS:ND1	9:PF:47:ILE:HD12	2.35	0.40
9:PF:131:GLN:HG2	9:PF:250:LEU:HD13	2.03	0.40
9:PH:167:PHE:HD2	9:PH:202:ILE:HD11	1.86	0.40
8:PI:195:LEU:HD12	8:PI:195:LEU:HA	1.89	0.40
8:PK:11:GLN:HE21	67:PK:501:GTP:PA	2.44	0.40
9:QB:156:ARG:HA	9:QB:156:ARG:HD2	1.86	0.40
8:QC:344:VAL:H	8:QC:344:VAL:HG22	1.58	0.40
9:QD:318:ARG:HB2	9:QD:318:ARG:HH11	1.86	0.40
8:QE:417:GLU:HA	8:QE:420:GLU:HG2	2.03	0.40
9:QF:42:LEU:HD22	9:QF:356:ILE:HG12	2.02	0.40
8:QG:273:ALA:HB2	8:QG:295:CYS:SG	2.61	0.40
9:QL:167:PHE:HD2	9:QL:233:MET:HE2	1.86	0.40
8:RA:146:GLY:O	8:RA:150:ALA:HB2	2.21	0.40
8:RA:204:VAL:HA	8:RA:302:MET:SD	2.61	0.40
8:RA:422:ARG:HE	8:RA:422:ARG:HB3	1.69	0.40
8:RC:27:GLU:OE1	8:RC:243:ARG:NH2	2.55	0.40
9:RF:305:PRO:HG2	9:RF:310:TYR:CZ	2.57	0.40
9:RH:122:LYS:NZ	9:SH:291:GLN:O	2.53	0.40
9:RJ:215:LEU:HA	9:RJ:215:LEU:HD23	1.88	0.40
8:RK:164:LYS:HE2	8:RK:164:LYS:HB2	1.91	0.40
9:RL:379:LYS:HB3	9:RL:379:LYS:HE2	1.90	0.40
8:RM:105:ARG:HA	8:RM:109:THR:HG23	2.02	0.40
9:SD:226:ASN:HA	9:SD:229:VAL:HG12	2.03	0.40
8:SE:254:GLU:OE2	9:SF:99:ASN:ND2	2.30	0.40
8:SI:269:LEU:HD21	8:SI:301:GLN:HB3	2.02	0.40
9:SJ:228:LEU:HD12	9:SJ:228:LEU:HA	1.77	0.40
8:SK:317:MET:HE2	8:SK:319:TYR:OH	2.21	0.40
8:SM:76:ASP:OD1	8:SM:79:ARG:NH2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TC:229:ARG:NH1	8:TC:366:GLY:HA2	2.36	0.40
9:TD:2:ARG:H	9:TD:2:ARG:HG3	1.63	0.40
8:TE:124:LYS:HB2	8:TE:124:LYS:HE2	1.81	0.40
9:TF:45:GLU:H	9:TF:45:GLU:CD	2.28	0.40
8:TG:8:HIS:HD1	8:TG:17:GLY:HA3	1.86	0.40
9:TH:256:ASN:HD22	9:TH:350:LYS:NZ	2.19	0.40
8:TI:216:ASN:O	8:TI:280:LYS:NZ	2.31	0.40
9:TJ:143:THR:HG22	69:TJ:501:GDP:PB	2.61	0.40
9:UB:337:ASN:OD1	9:UB:337:ASN:N	2.53	0.40
8:UE:439:SER:HB2	9:UF:391:ARG:NH2	2.37	0.40
9:UH:330:MET:HA	9:UH:333:VAL:HG22	2.03	0.40
9:UJ:414:ASN:HA	9:UJ:417:ASP:HB2	2.03	0.40
9:UL:56:GLY:N	59:b:284:MET:SD	2.86	0.40
9:UL:378:PHE:HD2	9:UL:418:LEU:HD22	1.86	0.40
8:UM:115:VAL:HG11	8:UM:152:LEU:HD23	2.02	0.40
9:VD:232:THR:O	9:VD:236:VAL:HG23	2.21	0.40
8:VE:76:ASP:HA	8:VE:79:ARG:HB2	2.03	0.40
9:VF:49:VAL:O	9:VF:62:ARG:NH2	2.41	0.40
8:VI:199:ASP:HB3	8:VI:256:GLN:NE2	2.35	0.40
8:VI:261:PRO:HB2	8:VI:262:TYR:CE1	2.56	0.40
8:VK:121:ARG:NH2	8:WK:284:GLU:OE2	2.54	0.40
9:VN:135:LEU:HD21	9:VN:137:HIS:HB3	2.04	0.40
9:VN:158:GLU:HG3	9:VN:159:TYR:CD1	2.57	0.40
9:WB:355:ASP:N	9:WB:355:ASP:OD1	2.54	0.40
8:WC:205:ASP:OD2	8:WC:208:ALA:N	2.54	0.40
8:WE:21:TRP:CZ3	8:WE:63:PRO:HB3	2.56	0.40
8:WG:69:ASP:OD2	8:WG:70:LEU:N	2.55	0.40
8:WG:188:ILE:HG13	8:WG:189:LEU:N	2.36	0.40
9:WJ:256:ASN:HD21	8:WK:180:ALA:HB1	1.86	0.40
9:WL:250:LEU:HA	9:WL:253:LEU:HD12	2.02	0.40
9:WL:404:ASP:OD1	9:WL:404:ASP:N	2.54	0.40
47:Y:97:LEU:N	47:Y:124:TYR:O	2.52	0.40
47:Y:138:VAL:HG22	47:Y:145:GLN:HE22	1.86	0.40
57:YI:186:LEU:HD23	57:YI:186:LEU:HA	1.85	0.40
57:YJ:85:LEU:HB2	57:YJ:126:PHE:HZ	1.85	0.40
57:YK:44:VAL:O	57:YK:47:MET:HB2	2.22	0.40
60:e:96:ILE:HD11	60:e:113:HIS:CD2	2.47	0.40
60:e:119:ALA:HB2	60:e:166:THR:HA	2.03	0.40
60:e:341:ILE:HD11	60:e:351:PHE:CD1	2.56	0.40
60:f:36:HIS:CE1	60:f:101:TYR:HE2	2.38	0.40
60:f:249:LYS:HB3	60:f:249:LYS:HE2	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:f:442:GLY:O	60:f:463:HIS:HB2	2.21	0.40
60:g:419:HIS:ND1	60:g:423:VAL:HG12	2.35	0.40
60:g:468:SER:OG	60:g:509:GLN:O	2.39	0.40
63:n:122:LYS:HA	63:n:122:LYS:HD2	1.97	0.40
2:0e:77:LEU:HD13	2:0e:145:ILE:HG21	2.03	0.40
2:0k:117:LYS:HB2	2:0k:117:LYS:HE3	1.83	0.40
2:0k:145:ILE:HG23	2:0k:149:MET:HE3	2.02	0.40
7:A7:205:ARG:HA	9:SB:297:LYS:NZ	2.37	0.40
7:A8:113:LYS:HA	8:SM:96:LYS:HD2	2.04	0.40
7:A8:182:PRO:HD3	8:TI:338:LYS:HD3	2.03	0.40
9:AB:52:ASN:HD22	9:AB:86:ARG:NH2	2.19	0.40
9:AF:192:LEU:HD12	9:AF:192:LEU:HA	1.89	0.40
9:AJ:336:LYS:HD3	9:AJ:336:LYS:HA	1.88	0.40
9:AL:73:MET:HE3	9:AL:90:PHE:HD1	1.86	0.40
8:AM:189:LEU:HD22	8:AM:417:GLU:OE2	2.20	0.40
10:AP:48:HIS:NE2	8:KG:431:ASP:OD1	2.39	0.40
11:AT:55:LYS:HA	11:AT:55:LYS:HD3	1.86	0.40
11:AT:63:LYS:HB2	11:AT:63:LYS:HE2	1.81	0.40
11:AT:327:LYS:HE2	11:AT:327:LYS:HB2	1.94	0.40
12:AV:111:GLU:O	12:AV:115:LYS:HG2	2.21	0.40
13:Aa:525:LYS:HD3	13:Aa:525:LYS:HA	1.74	0.40
13:Ac:164:LEU:HD23	13:Ac:164:LEU:HA	1.93	0.40
15:Ap:31:PRO:HD2	15:Ap:48:TYR:CZ	2.57	0.40
15:Ar:157:LEU:HD23	15:Ar:157:LEU:HA	1.91	0.40
7:Av:138:GLY:N	8:NK:123:ARG:NH1	2.62	0.40
16:Ax:142:PRO:HA	8:EC:123:ARG:HH12	1.87	0.40
5:B:103:ILE:HG12	5:B:105:HIS:H	1.87	0.40
5:B:107:PHE:HE2	8:WG:220:GLU:HB3	1.86	0.40
18:B5:223:SER:OG	18:B5:224:ILE:N	2.54	0.40
9:BB:105:HIS:CD2	9:BB:150:LEU:HB2	2.56	0.40
9:BB:174:LYS:HA	9:BB:174:LYS:HD3	1.92	0.40
9:BD:191:GLN:OE1	9:BD:191:GLN:N	2.54	0.40
9:BD:215:LEU:HB3	9:BD:217:LEU:HD13	2.02	0.40
8:BE:304:LYS:HA	8:BE:304:LYS:HD2	1.76	0.40
9:BJ:54:ALA:HB3	9:BJ:58:LYS:HB3	2.02	0.40
8:BK:368:LEU:HD23	8:BK:368:LEU:HA	1.93	0.40
9:BL:178:THR:HG22	9:BL:180:VAL:H	1.85	0.40
9:BL:350:LYS:NZ	8:BM:179:THR:O	2.45	0.40
19:BO:95:LEU:HD11	8:MM:430:LYS:HG3	2.02	0.40
19:BP:391:GLU:HG3	19:BR:115:ARG:HH21	1.87	0.40
19:BR:147:ILE:HD13	19:BR:147:ILE:HA	1.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BR:373:ILE:HG21	19:BR:373:ILE:HD13	1.41	0.40
22:BW:36:ARG:O	22:BW:38:LYS:NZ	2.55	0.40
14:BY:282:LEU:HB2	14:BY:305:THR:HG21	2.03	0.40
23:Bg:45:ARG:N	8:GM:31:GLN:OE1	2.44	0.40
27:Bs:302:MET:HE2	27:Bs:302:MET:HB3	1.76	0.40
27:Bs:420:PHE:HB2	31:Cl:364:ARG:HD2	2.03	0.40
28:C2:186:MET:HE2	28:C2:186:MET:HB3	1.97	0.40
28:C2:350:ARG:NH1	28:C2:353:GLU:OE2	2.47	0.40
28:C7:341:ASN:ND2	29:Cz:351:ALA:HB1	2.36	0.40
28:C8:382:ILE:HG21	28:C8:438:LEU:HB2	2.03	0.40
28:C9:232:ARG:NH1	28:C9:332:THR:HG1	2.16	0.40
8:CA:205:ASP:HB3	8:CA:208:ALA:HB3	2.04	0.40
9:CB:3:GLU:HA	9:CB:49:VAL:HA	2.03	0.40
9:CB:209:ASP:O	9:CB:213:ARG:HB2	2.21	0.40
9:CB:388:MET:HE2	9:CB:388:MET:HB3	1.95	0.40
8:CG:357:TYR:HD1	8:CG:357:TYR:HA	1.81	0.40
8:CI:277:SER:HB3	8:CI:280:LYS:HB2	2.04	0.40
2:Ca:66:ILE:HA	2:Ca:66:ILE:HD12	1.89	0.40
2:Ca:73:ILE:HD13	2:Ca:73:ILE:HA	1.88	0.40
2:Cc:97:LEU:HD13	2:Cc:151:GLU:CD	2.47	0.40
2:Ce:128:CYS:HA	2:Ce:132:ARG:HH21	1.86	0.40
2:Cg:77:LEU:HD11	2:Cg:142:ILE:HG23	2.04	0.40
2:Cg:98:LEU:HD23	2:Cg:98:LEU:HA	1.93	0.40
2:Ci:30:LEU:HD12	2:Ci:30:LEU:HA	1.88	0.40
2:Ci:104:LEU:HB3	2:Ci:145:ILE:HD11	2.03	0.40
2:Cj:63:ASP:O	2:Cj:66:ILE:HG22	2.21	0.40
2:Ck:146:LEU:HA	2:Ck:149:MET:HE2	2.02	0.40
32:Co:187:ILE:HD13	32:Co:187:ILE:HA	1.79	0.40
33:Cr:296:ASP:OD1	33:Cr:296:ASP:N	2.54	0.40
33:Cs:199:ILE:HD13	33:Cs:199:ILE:HA	1.90	0.40
33:Cv:161:LYS:HD2	33:Cv:161:LYS:HA	1.81	0.40
33:Cv:345:LEU:HD23	33:Cv:345:LEU:HA	1.82	0.40
29:D1:444:LEU:O	29:D1:448:VAL:HG23	2.21	0.40
29:D8:388:LYS:HA	29:D8:388:LYS:HD2	1.85	0.40
8:DE:227:LEU:HD13	8:DE:227:LEU:HA	1.90	0.40
8:DE:302:MET:H	8:DE:302:MET:HG3	1.73	0.40
8:DG:326:LYS:HG3	9:DH:212:PHE:CZ	2.52	0.40
9:DH:253:LEU:O	9:DH:257:MET:HB2	2.21	0.40
9:DH:379:LYS:HD2	9:DH:379:LYS:HA	1.75	0.40
8:DI:408:TYR:CZ	8:DI:413:MET:HE1	2.57	0.40
9:DJ:238:THR:HG21	9:DJ:318:ARG:HD3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:105:ARG:NH2	8:DK:110:ILE:HD11	2.37	0.40
8:DM:81:GLY:HA2	8:DM:84:ARG:HD2	2.02	0.40
9:DN:70:PRO:HA	9:DN:73:MET:HB2	2.03	0.40
29:DP:130:LYS:HA	29:DP:130:LYS:HD3	1.74	0.40
29:DS:172:SER:O	29:DS:176:ILE:HG22	2.21	0.40
29:DV:319:ARG:HH21	29:DV:323:GLU:CD	2.29	0.40
29:DW:42:LEU:HD12	29:DW:42:LEU:HA	1.90	0.40
29:DX:177:LYS:NZ	29:DX:239:ILE:HG22	2.36	0.40
35:Da:92:LEU:HD12	35:Da:92:LEU:HA	1.84	0.40
38:Dh:134:CYS:HB2	38:Dh:153:LEU:HB2	2.04	0.40
39:Di:40:LYS:HG2	39:Di:85:SER:HB3	2.03	0.40
43:E2:50:LYS:HD2	43:E2:52:THR:HG22	2.03	0.40
9:EB:67:ASP:OD2	9:EB:69:GLU:N	2.49	0.40
9:EB:89:ASN:HA	9:EB:119:VAL:HG21	2.03	0.40
9:ED:210:ILE:O	9:ED:214:THR:OG1	2.26	0.40
8:EE:183:GLU:CD	8:EE:184:PRO:HD3	2.47	0.40
8:EG:74:VAL:HA	8:EG:77:GLU:OE1	2.22	0.40
8:EK:344:VAL:HG13	8:EK:346:TRP:HE3	1.86	0.40
8:EM:265:ILE:HG23	8:EM:432:TYR:CZ	2.56	0.40
44:EW:51:TYR:OH	44:EZ:165:PRO:O	2.37	0.40
44:EW:178:LYS:HB2	44:EW:178:LYS:HE2	1.85	0.40
44:EX:159:ARG:CZ	44:EX:172:VAL:HB	2.52	0.40
44:EX:318:LEU:HD21	44:EX:415:ASP:HB3	2.03	0.40
9:FB:68:LEU:HD12	9:FB:97:ALA:HB2	2.03	0.40
8:FC:98:ASP:O	8:FC:105:ARG:NH1	2.42	0.40
8:FC:320:ARG:HD3	8:FC:360:PRO:HD3	2.02	0.40
9:FD:222:TYR:HD2	69:FD:501:GDP:C6	2.39	0.40
8:FE:181:VAL:HG23	8:FE:404:PHE:HE2	1.86	0.40
9:FF:8:GLN:HE21	9:FF:8:GLN:HB2	1.67	0.40
8:FG:3:GLU:OE1	8:FG:129:CYS:HA	2.21	0.40
8:FI:181:VAL:HG22	8:FI:182:VAL:H	1.85	0.40
8:FM:64:ARG:NE	8:FM:129:CYS:SG	2.91	0.40
9:GF:83:GLN:H	9:GF:83:GLN:HG3	1.66	0.40
8:GG:33:ASP:OD1	8:GG:35:GLN:HG2	2.21	0.40
8:GG:392:ASP:OD1	8:GG:392:ASP:N	2.54	0.40
8:GI:107:HIS:ND1	8:GI:152:LEU:HB2	2.36	0.40
8:GI:217:LEU:O	8:GI:219:ILE:N	2.54	0.40
9:GJ:252:LYS:HD3	8:GK:100:ALA:HA	2.02	0.40
8:GK:286:LEU:HD22	8:GK:371:VAL:HG11	2.03	0.40
9:GL:117:LEU:HA	9:GL:120:VAL:HB	2.02	0.40
8:GM:414:GLU:HG2	8:GM:417:GLU:OE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GN:145:SER:HB3	9:GN:188:SER:HB2	2.03	0.40
8:HE:115:VAL:HG21	8:HE:152:LEU:HG	2.02	0.40
8:HE:320:ARG:CZ	8:HE:358:GLN:HE22	2.34	0.40
9:HH:130:LEU:HD12	9:HH:130:LEU:HA	1.95	0.40
8:HI:152:LEU:HD12	8:HI:152:LEU:HA	1.93	0.40
8:HI:254:GLU:HA	8:HI:257:THR:HG22	2.04	0.40
9:HJ:6:HIS:CD2	9:HJ:21:TRP:HE1	2.39	0.40
9:HL:156:ARG:NH2	9:HL:162:ARG:O	2.54	0.40
8:HM:408:TYR:HB3	8:HM:413:MET:HG3	2.03	0.40
9:HN:172:SER:OG	9:HN:205:GLU:OE1	2.37	0.40
8:HO:252:LEU:O	8:HO:255:PHE:HB2	2.21	0.40
47:I:182:ARG:NH2	47:I:205:GLU:OE2	2.44	0.40
9:IF:149:THR:HG21	9:IF:188:SER:HA	2.04	0.40
9:IF:270:PHE:HD2	9:IF:273:LEU:HD21	1.87	0.40
8:IG:144:GLY:N	67:IG:501:GTP:O2B	2.46	0.40
8:IK:26:LEU:HA	8:IK:26:LEU:HD23	1.88	0.40
8:IK:401:LYS:HE2	8:IK:401:LYS:HB3	1.93	0.40
8:IO:139:HIS:NE2	8:IO:168:GLU:OE1	2.54	0.40
48:J:114:ARG:HG2	48:J:136:ASP:HB3	2.03	0.40
9:JB:165:ASN:HD21	9:JB:200:TYR:HE2	1.69	0.40
8:JC:150:ALA:O	8:JC:154:MET:HG2	2.21	0.40
8:JC:225:THR:O	8:JC:229:ARG:HG2	2.21	0.40
9:JF:117:LEU:HD23	9:JF:117:LEU:HA	1.89	0.40
9:JF:147:MET:HE2	9:JF:147:MET:HB3	1.85	0.40
8:JK:311:LYS:H	8:JK:382:THR:HG22	1.86	0.40
9:JL:5:VAL:HG22	9:JL:62:ARG:HD3	2.03	0.40
9:JL:203:ASP:OD2	9:JL:302:ALA:N	2.50	0.40
48:K:140:LEU:HD23	48:K:140:LEU:HA	1.96	0.40
49:K1:24:TYR:CE2	9:UJ:216:LYS:HD3	2.56	0.40
8:KC:30:ILE:HD13	8:KC:30:ILE:HA	1.97	0.40
9:KD:284:LEU:HD23	9:KD:362:LYS:HD2	2.04	0.40
9:KF:156:ARG:HA	9:KF:156:ARG:HD2	1.80	0.40
8:KI:422:ARG:NH1	8:KI:426:ALA:HB2	2.36	0.40
8:KK:344:VAL:HG12	8:KK:347:CYS:HB3	2.03	0.40
9:KL:256:ASN:O	9:KL:312:THR:HG21	2.22	0.40
8:KO:397:LEU:HD12	8:KO:397:LEU:HA	1.92	0.40
50:L1:98:SER:O	50:L1:98:SER:OG	2.32	0.40
50:L1:133:ILE:HD13	9:WD:215:LEU:HD11	2.02	0.40
50:L2:41:HIS:ND1	59:b:232:VAL:HG13	2.36	0.40
9:LD:271:ALA:HB1	9:LD:289:LEU:HD22	2.04	0.40
9:LH:24:ILE:HD13	9:LH:24:ILE:HA	1.93	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LL:249:ASP:OD2	9:LL:251:ARG:N	2.54	0.40
8:LM:33:ASP:OD1	8:LM:33:ASP:N	2.54	0.40
9:LN:178:THR:HG22	9:LN:180:VAL:H	1.85	0.40
9:MD:31:ASP:OD1	9:MD:35:THR:N	2.54	0.40
9:MD:164:MET:HE2	9:MD:164:MET:HB2	1.75	0.40
8:ME:152:LEU:O	8:ME:156:ARG:HG3	2.21	0.40
9:MF:236:VAL:HG22	9:MF:368:ILE:HD11	2.02	0.40
9:MF:246:LEU:HD11	67:MG:501:GTP:H5"	2.03	0.40
8:MG:276:ILE:HD11	8:MG:284:GLU:HG3	2.02	0.40
8:MI:185:TYR:HE2	8:MI:405:VAL:HG22	1.86	0.40
8:MI:258:ASN:HB3	9:MJ:179:VAL:CG1	2.49	0.40
9:MJ:203:ASP:HB2	9:MJ:301:ALA:HA	2.03	0.40
9:MJ:323:MET:HA	9:MJ:326:VAL:HG12	2.03	0.40
9:ML:163:ILE:HD13	9:ML:163:ILE:HA	1.94	0.40
9:MN:109:GLY:O	9:MN:113:VAL:HG13	2.21	0.40
51:N:86:ILE:HD12	51:N:86:ILE:HA	1.89	0.40
9:N0:323:MET:HG3	8:NA:224:TYR:CD1	2.57	0.40
8:NA:255:PHE:O	8:NA:259:LEU:HB2	2.21	0.40
9:NB:178:THR:HB	9:NB:181:GLU:HG3	2.03	0.40
9:NB:330:MET:HA	9:NB:330:MET:HE3	2.03	0.40
8:NC:320:ARG:N	8:NC:374:ALA:O	2.50	0.40
9:NH:30:ILE:HD13	9:NH:30:ILE:HA	1.96	0.40
8:NI:186:ASN:OD1	8:NI:186:ASN:N	2.54	0.40
8:NI:251:ASP:OD1	8:NI:252:LEU:N	2.54	0.40
9:NL:203:ASP:OD1	9:NL:203:ASP:N	2.54	0.40
9:NL:250:LEU:HD12	9:NL:250:LEU:HA	1.93	0.40
9:O0:19:LYS:HZ3	9:O0:19:LYS:HG2	1.75	0.40
9:O0:47:ILE:HG21	9:O0:59:TYR:HE1	1.86	0.40
8:OA:32:PRO:HB3	8:OA:83:TYR:HE1	1.86	0.40
9:OH:65:LEU:C	9:OH:73:MET:HE1	2.45	0.40
9:OH:230:SER:HA	9:OH:233:MET:HB2	2.03	0.40
9:OJ:68:LEU:HD12	9:OJ:97:ALA:HB2	2.02	0.40
9:PB:68:LEU:HD13	9:PB:143:THR:HB	2.03	0.40
9:PB:230:SER:HA	9:PB:233:MET:HG2	2.03	0.40
9:PB:253:LEU:HD21	9:PB:368:ILE:HG21	2.04	0.40
9:PB:398:TYR:HD1	9:PB:398:TYR:HA	1.79	0.40
8:PC:18:ASN:HD21	8:PC:78:VAL:HG22	1.87	0.40
9:PD:189:VAL:HG21	9:PD:378:PHE:HZ	1.86	0.40
8:PE:29:GLY:HA3	8:PE:36:MET:HE1	2.03	0.40
9:PF:152:ILE:HA	9:PF:155:ILE:HG12	2.03	0.40
9:PF:153:SER:O	9:PF:153:SER:OG	2.27	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PG:3:GLU:H	8:PG:3:GLU:CD	2.29	0.40
9:PH:86:ARG:HD3	9:QH:282:ARG:NH2	2.31	0.40
8:PI:12:ALA:O	8:PI:16:ILE:HD13	2.21	0.40
8:PM:188:ILE:HG21	8:PM:395:LEU:HD22	2.02	0.40
8:QC:390:ARG:HE	8:QC:390:ARG:HB2	1.64	0.40
9:QD:304:ASP:HB3	9:QD:307:HIS:HE1	1.85	0.40
8:QE:191:THR:HA	8:QE:194:THR:HG22	2.02	0.40
9:QH:344:TRP:CD2	8:QI:401:LYS:HG3	2.56	0.40
8:QK:1:MET:HE2	8:QK:1:MET:HB2	1.83	0.40
9:RB:54:ALA:HB3	9:RB:58:LYS:HB2	2.02	0.40
8:RE:168:GLU:HB2	8:RE:201:ALA:HA	2.04	0.40
8:RE:370:LYS:HD2	8:RE:370:LYS:HA	1.87	0.40
9:RF:289:LEU:HD13	9:RF:365:ALA:HB2	2.03	0.40
9:RF:383:GLU:HA	9:RF:386:THR:HG22	2.02	0.40
9:RH:7:LEU:HD23	9:RH:64:VAL:HB	2.04	0.40
8:RI:304:LYS:HD2	8:RI:304:LYS:HA	1.93	0.40
8:RK:257:THR:HA	9:RL:397:TRP:CH2	2.56	0.40
9:RL:84:ILE:H	9:RL:84:ILE:HG13	1.68	0.40
9:RL:268:PRO:HG2	9:RL:300:MET:SD	2.60	0.40
9:RL:296:ALA:HA	9:RL:299:MET:SD	2.62	0.40
9:SB:27:GLU:OE2	9:SB:241:ARG:NH2	2.46	0.40
8:SC:204:VAL:HG13	8:SC:209:ILE:HD11	2.03	0.40
8:SC:288:VAL:HG11	8:SC:328:VAL:HG22	2.03	0.40
9:SD:107:THR:OG1	9:SD:108:GLU:N	2.53	0.40
8:SE:79:ARG:HG3	8:SE:92:LEU:HD23	2.03	0.40
8:SG:276:ILE:HD12	8:SG:280:LYS:HE3	2.03	0.40
8:SI:123:ARG:HD2	8:SI:123:ARG:C	2.46	0.40
8:SK:195:LEU:HD21	8:SK:428:LEU:HD11	2.03	0.40
8:SK:311:LYS:HE2	8:SK:311:LYS:HB2	1.83	0.40
9:TB:249:ASP:OD1	9:TB:252:LYS:HG2	2.21	0.40
9:TB:262:ARG:HA	9:TB:264:HIS:CE1	2.55	0.40
9:TF:100:ASN:HD21	9:TF:397:TRP:HB3	1.86	0.40
8:TG:242:LEU:HD12	8:TG:242:LEU:HA	1.84	0.40
8:TI:175:PRO:HB3	8:TI:390:ARG:NH1	2.36	0.40
8:TI:271:THR:OG1	8:TI:272:TYR:N	2.54	0.40
9:TJ:125:GLU:H	9:TJ:125:GLU:HG2	1.71	0.40
8:TK:67:PHE:HB2	8:TK:92:LEU:HD23	2.02	0.40
8:TK:231:ILE:O	8:TK:235:VAL:HG23	2.21	0.40
9:TL:77:ARG:HD3	9:TL:90:PHE:CE2	2.56	0.40
8:TM:70:LEU:HD12	8:TM:145:THR:HG22	2.03	0.40
8:TM:215:ARG:NH1	8:TM:299:ALA:HB1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TM:341:ILE:HG22	8:TM:343:PHE:HE1	1.86	0.40
8:UC:140:SER:HB3	8:UC:171:ILE:HB	2.03	0.40
8:UE:324:VAL:HA	8:UE:325:PRO:HD3	1.98	0.40
9:UF:8:GLN:NE2	9:UF:17:GLY:HA3	2.36	0.40
9:UF:280:GLN:CD	59:c:234:ARG:HE	2.29	0.40
9:UH:324:LYS:HB3	8:UI:210:TYR:CE1	2.57	0.40
9:UH:356:ILE:HD13	9:UH:356:ILE:HA	1.98	0.40
8:UK:88:HIS:CD2	8:UK:90:GLU:HB3	2.57	0.40
8:UK:429:GLU:HG2	8:UK:429:GLU:H	1.67	0.40
8:UM:211:ASP:OD2	8:UM:304:LYS:NZ	2.49	0.40
9:UN:5:VAL:HB	9:UN:133:PHE:CD2	2.57	0.40
9:VB:97:ALA:O	9:VB:103:LYS:NZ	2.55	0.40
8:VC:80:THR:HA	8:VC:84:ARG:HD2	2.02	0.40
8:VG:53:PHE:HB3	8:VG:61:HIS:HB3	2.04	0.40
8:VG:188:ILE:HD13	8:VG:188:ILE:HA	1.83	0.40
8:VG:212:ILE:HG23	8:VG:216:ASN:HD22	1.87	0.40
8:VG:408:TYR:O	8:VG:413:MET:HB2	2.22	0.40
9:VH:45:GLU:OE2	9:VH:45:GLU:N	2.50	0.40
8:VI:388:TRP:CD1	8:VI:425:LEU:HD11	2.56	0.40
9:VJ:135:LEU:HD22	9:VJ:152:ILE:HD11	2.02	0.40
8:VK:62:VAL:HA	8:VK:63:PRO:HD3	1.92	0.40
9:VL:53:GLU:N	9:VL:53:GLU:OE1	2.54	0.40
9:VL:87:PRO:HG2	9:WL:278:SER:HB2	2.03	0.40
8:VM:105:ARG:O	8:VM:110:ILE:HG12	2.21	0.40
9:VN:271:ALA:HB3	9:VN:365:ALA:HB3	2.03	0.40
9:WD:330:MET:HE3	9:WD:330:MET:HB2	1.92	0.40
8:WG:9:VAL:HA	8:WG:68:VAL:HG22	2.02	0.40
8:WG:128:LEU:HD13	57:YJ:122:PRO:HG2	2.01	0.40
8:WG:259:LEU:HD12	8:WG:259:LEU:HA	1.86	0.40
8:WG:306:ASP:HB3	8:WG:309:HIS:NE2	2.36	0.40
8:WG:311:LYS:HB3	8:WG:311:LYS:HE3	1.85	0.40
8:WG:349:THR:OG1	9:WH:179:VAL:HA	2.21	0.40
9:WH:176:SER:OG	9:WH:177:ASP:N	2.54	0.40
8:WI:259:LEU:HA	8:WI:314:ALA:HB1	2.04	0.40
8:WI:260:VAL:HG22	8:WI:266:HIS:HA	2.03	0.40
8:WM:268:PRO:HA	8:WM:380:ASN:HA	2.04	0.40
56:XM:24:ILE:H	56:XM:24:ILE:HG12	1.59	0.40
59:b:400:TRP:HE3	59:b:401:ARG:HD3	1.86	0.40
59:c:136:ILE:HA	59:c:139:THR:HG22	2.02	0.40
62:i:57:SER:OG	62:i:68:ASP:HB3	2.22	0.40
4:z:1450:LEU:HD22	4:z:1454:ASP:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0A:68:LEU:HD23	2:0A:68:LEU:HA	1.93	0.40
2:0c:85:GLU:HG3	2:0c:98:LEU:HD21	2.03	0.40
2:0i:134:HIS:O	2:0i:136:GLY:N	2.54	0.40
3:1:46:ARG:HH22	3:1:47:ARG:HG3	1.85	0.40
4:3:1411:GLY:H	4:3:1480:LYS:HZ3	1.69	0.40
8:AA:164:LYS:O	8:AA:166:LYS:NZ	2.54	0.40
9:AB:19:LYS:HA	9:AB:19:LYS:HD3	1.78	0.40
9:AB:46:ARG:HB2	9:AB:241:ARG:HA	2.03	0.40
8:AC:206:ASN:ND2	67:AC:501:GTP:O2'	2.54	0.40
8:AE:237:SER:HA	8:AE:320:ARG:HH11	1.86	0.40
8:AG:6:SER:HA	8:AG:136:LEU:HB2	2.02	0.40
8:AG:296:PHE:HE1	8:AG:317:MET:HE1	1.86	0.40
9:AH:87:PRO:HD3	9:BH:281:TYR:CD2	2.56	0.40
9:AH:273:LEU:O	9:AH:292:GLN:NE2	2.54	0.40
9:AH:417:ASP:OD1	57:YI:195:PRO:HG2	2.22	0.40
8:AI:103:TYR:CD2	8:AI:189:LEU:HD13	2.57	0.40
8:AI:259:LEU:HD23	8:AI:259:LEU:HA	1.90	0.40
11:AT:111:GLU:HA	11:AT:114:THR:HG22	2.03	0.40
12:AV:173:LYS:HA	12:AV:173:LYS:HD2	1.79	0.40
12:AV:249:ALA:HB1	12:AV:254:LEU:HB2	2.03	0.40
12:AW:106:ALA:O	12:AW:110:ILE:HG12	2.21	0.40
12:AW:360:LEU:HD23	12:AW:360:LEU:HA	1.83	0.40
13:Ad:73:ASP:OD1	13:Ad:74:GLU:N	2.51	0.40
13:Ad:304:PHE:HE1	9:CB:212:PHE:HE1	1.69	0.40
15:Ap:159:PRO:HA	38:Dg:72:LYS:NZ	2.36	0.40
15:Aq:174:ARG:HE	15:Aq:174:ARG:HB3	1.73	0.40
15:Ar:155:PRO:HA	15:Ar:156:PRO:HD3	1.96	0.40
16:At:241:SER:CB	9:FJ:336:LYS:HD3	2.51	0.40
5:B:122:PRO:HA	5:B:125:ARG:HD2	2.03	0.40
18:B6:136:LYS:H	18:B6:136:LYS:HG3	1.75	0.40
8:BA:2:ARG:HA	8:BA:133:GLN:HE22	1.85	0.40
9:BB:1:MET:HE3	9:BB:2:ARG:H	1.87	0.40
9:BB:73:MET:HE2	9:BB:73:MET:HB2	1.82	0.40
8:BC:291:ILE:HA	8:BC:294:ALA:HB3	2.02	0.40
9:BD:200:TYR:HE1	9:BD:368:ILE:HG23	1.86	0.40
8:BE:422:ARG:HG3	8:BE:423:GLU:H	1.86	0.40
9:BF:406:MET:HE2	9:BF:406:MET:HB3	1.83	0.40
8:BK:397:LEU:HD23	8:BK:397:LEU:HA	1.92	0.40
9:BL:102:ALA:HB1	9:BL:401:GLU:HB2	2.04	0.40
6:BN:237:PRO:HD2	8:IM:338:LYS:HD2	2.04	0.40
19:BO:109:LEU:HD23	19:BO:109:LEU:HA	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BV:273:TRP:HH2	21:BV:276:MET:HG2	1.86	0.40
14:Bc:298:ALA:HB1	8:CK:226:ASN:HD21	1.85	0.40
27:Br:62:ASP:OD1	62:i:39:LEU:HD23	2.21	0.40
27:Br:178:ASP:OD1	27:Br:179:LYS:N	2.53	0.40
26:Bu:184:LEU:HD12	26:Bu:184:LEU:HA	1.87	0.40
28:C5:207:GLY:HA2	29:DT:40:TYR:CD2	2.56	0.40
28:C5:226:ILE:HG12	28:C5:336:MET:HE3	2.03	0.40
8:CA:5:ILE:HD12	8:CA:132:LEU:HD13	2.03	0.40
8:CC:392:ASP:HB3	8:CC:422:ARG:NH2	2.33	0.40
9:CJ:150:LEU:HA	9:CJ:150:LEU:HD23	1.77	0.40
8:CK:185:TYR:O	8:CK:189:LEU:HG	2.22	0.40
9:CL:263:LEU:HD22	9:CL:422:TYR:CE1	2.57	0.40
14:CN:25:PRO:HD3	9:DB:44:LEU:HD11	2.03	0.40
2:CU:95:ASN:HA	2:CU:98:LEU:HD12	2.02	0.40
2:CV:64:ARG:HD3	2:CV:64:ARG:HA	1.78	0.40
30:CW:323:THR:HG21	9:JF:360:GLY:HA3	2.02	0.40
2:CX:101:CYS:O	2:CX:105:VAL:HG12	2.21	0.40
2:CZ:142:ILE:H	2:CZ:142:ILE:HG13	1.67	0.40
2:Ci:149:MET:O	2:Ci:153:VAL:HG23	2.21	0.40
2:Ck:140:SER:O	2:Ck:143:PRO:HD2	2.22	0.40
32:Cm:351:LEU:HD23	32:Cm:351:LEU:HA	1.95	0.40
32:Cn:336:ARG:HD2	32:Cn:336:ARG:HA	1.84	0.40
33:Cr:161:LYS:HD2	33:Cr:161:LYS:HA	1.78	0.40
29:D3:382:GLU:OE2	29:D3:441:ARG:NH2	2.55	0.40
29:D7:398:ARG:HD2	29:D7:419:LEU:HD21	2.04	0.40
8:DA:223:THR:O	8:DA:227:LEU:HG	2.21	0.40
9:DB:95:SER:OG	9:DB:108:GLU:OE2	2.32	0.40
9:DF:404:ASP:OD1	9:DF:404:ASP:N	2.51	0.40
9:DH:418:LEU:HD23	9:DH:418:LEU:HA	1.92	0.40
9:DJ:151:LEU:HD23	9:DJ:151:LEU:HA	1.94	0.40
8:DK:142:GLY:HA2	8:DK:183:GLU:HG3	2.04	0.40
29:DR:436:ARG:HA	29:DR:439:GLU:HG2	2.02	0.40
29:DS:439:GLU:HB2	44:EX:91:LEU:HD11	2.03	0.40
29:DU:130:LYS:HZ2	29:DU:130:LYS:HG2	1.67	0.40
29:DV:140:GLY:HA2	29:DV:143:ARG:NH1	2.36	0.40
35:Da:113:LEU:HD13	35:Da:179:GLN:HB3	2.02	0.40
42:E:846:LYS:HE2	42:E:846:LYS:HB2	1.93	0.40
29:EA:436:ARG:HH12	29:EP:122:ASP:CG	2.29	0.40
29:EO:349:ARG:HD2	29:EO:349:ARG:HA	1.80	0.40
44:ES:244:SER:OG	28:F3:98:ASP:OD2	2.39	0.40
44:ES:352:VAL:HG13	44:ET:231:TYR:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:EU:350:LEU:HD12	44:EU:350:LEU:HA	1.94	0.40
42:F:532:LYS:HA	42:F:532:LYS:HD3	1.82	0.40
42:F:614:PHE:HE2	42:F:623:GLY:HA2	1.86	0.40
9:FD:303:CYS:HB2	9:FD:373:ALA:HB1	2.03	0.40
8:FE:297:GLU:HA	8:FE:298:PRO:HD3	1.95	0.40
8:FG:21:TRP:HA	8:FG:24:TYR:HB2	2.03	0.40
8:FI:211:ASP:HB3	8:FI:215:ARG:NH2	2.36	0.40
8:FK:194:THR:HG22	8:FK:198:SER:HB2	2.03	0.40
8:FM:292:THR:HG23	8:FM:317:MET:HE1	2.04	0.40
45:G:574:PHE:CE1	8:GK:357:TYR:HB2	2.55	0.40
9:GB:36:TYR:OH	9:GB:40:SER:O	2.38	0.40
9:GF:344:TRP:CG	8:GG:401:LYS:HZ1	2.40	0.40
8:GG:48:SER:OG	8:GG:243:ARG:O	2.37	0.40
8:GK:234:ILE:O	8:GK:238:ILE:HG23	2.22	0.40
9:GL:330:MET:HB3	9:GL:349:VAL:HG11	2.02	0.40
9:GN:170:VAL:HG11	9:GN:377:LEU:HD21	2.04	0.40
8:HC:238:ILE:HD11	8:HC:378:LEU:HD11	2.01	0.40
8:HG:204:VAL:HG11	8:HG:231:ILE:HD11	2.02	0.40
8:HI:210:TYR:CE1	8:HI:227:LEU:HD13	2.56	0.40
8:HK:107:HIS:HB2	8:HK:152:LEU:HB2	2.03	0.40
8:HK:112:LYS:HE3	8:HK:112:LYS:HB3	1.89	0.40
8:HK:210:TYR:CE1	8:HK:227:LEU:HD11	2.56	0.40
9:HN:293:MET:HG3	9:HN:367:PHE:HB2	2.04	0.40
8:IC:169:PHE:CE2	8:IC:235:VAL:HG22	2.56	0.40
9:IF:117:LEU:HA	9:IF:120:VAL:HG12	2.03	0.40
8:II:254:GLU:HG2	9:IJ:98:GLY:HA2	2.03	0.40
8:II:260:VAL:HG23	8:II:265:ILE:O	2.21	0.40
9:IJ:68:LEU:HD13	9:IJ:108:GLU:HG2	2.04	0.40
9:IJ:267:MET:HA	9:IJ:268:PRO:HD3	1.85	0.40
9:IJ:344:TRP:CG	8:IK:401:LYS:HD2	2.57	0.40
8:IK:71:GLU:HB3	8:IK:73:THR:HG22	2.03	0.40
8:IK:398:MET:HE2	8:IK:398:MET:HB2	1.90	0.40
9:IL:118:ASP:OD2	51:O:127:GLY:N	2.54	0.40
9:IN:311:LEU:HD23	9:IN:342:VAL:HG11	2.03	0.40
8:IO:334:THR:O	8:IO:338:LYS:NZ	2.54	0.40
9:JB:151:LEU:HD23	9:JB:151:LEU:HA	1.87	0.40
49:K1:13:GLU:O	49:K1:17:ASN:ND2	2.45	0.40
9:KD:257:MET:HE1	9:KD:313:VAL:C	2.46	0.40
9:KF:395:LEU:HD12	9:KF:395:LEU:HA	1.93	0.40
8:KK:71:GLU:HB2	8:KK:98:ASP:HB3	2.04	0.40
8:KM:76:ASP:HA	8:KM:79:ARG:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KN:293:MET:HG2	9:KN:367:PHE:HB2	2.03	0.40
8:KO:166:LYS:HE3	8:KO:166:LYS:HB2	1.89	0.40
48:L:96:ILE:H	48:L:96:ILE:HG13	1.65	0.40
9:LB:41:ASP:OD1	9:LB:41:ASP:N	2.46	0.40
9:LF:191:GLN:H	9:LF:191:GLN:HG2	1.76	0.40
8:LG:116:ASP:OD1	8:LG:117:LEU:N	2.54	0.40
8:LG:431:ASP:OD1	54:R:249:LEU:HB2	2.21	0.40
8:LI:261:PRO:HB2	8:LI:262:TYR:CD2	2.56	0.40
8:LI:332:ILE:HD11	8:LI:353:VAL:HG11	2.03	0.40
9:LL:293:MET:HE1	9:LL:317:PHE:CZ	2.57	0.40
9:LN:173:PRO:HB3	9:LN:380:ARG:HD2	2.03	0.40
9:MB:21:TRP:CZ3	9:MB:61:PRO:HB3	2.56	0.40
9:MF:31:ASP:OD2	9:MF:35:THR:OG1	2.26	0.40
9:MF:31:ASP:OD2	9:MF:37:HIS:NE2	2.54	0.40
9:MH:323:MET:HE2	9:MH:323:MET:HB3	1.86	0.40
9:MH:405:GLU:H	9:MH:405:GLU:HG3	1.68	0.40
9:ML:204:ASN:ND2	69:ML:501:GDP:C2	2.87	0.40
9:ML:344:TRP:HZ3	8:MM:403:ALA:HB2	1.86	0.40
8:MM:69:ASP:OD2	8:MM:70:LEU:N	2.54	0.40
8:MM:234:ILE:HD11	8:MM:302:MET:HE1	2.04	0.40
9:NB:73:MET:O	9:NB:77:ARG:HB2	2.21	0.40
9:NF:105:HIS:HD2	9:NF:150:LEU:HB2	1.86	0.40
9:NF:346:PRO:HD3	8:NG:398:MET:HE1	2.04	0.40
9:NH:39:ASP:OD1	9:NH:40:SER:N	2.54	0.40
8:NI:251:ASP:OD2	8:NI:253:THR:OG1	2.32	0.40
9:O0:156:ARG:HE	9:O0:164:MET:HE2	1.86	0.40
9:O0:228:LEU:HD23	9:O0:228:LEU:HA	1.86	0.40
8:OA:46:ASP:HB3	8:OA:47:ASP:H	1.63	0.40
8:OA:154:MET:HA	8:OA:157:LEU:HB2	2.04	0.40
9:OB:139:LEU:HD21	9:OB:192:LEU:HD11	2.03	0.40
8:OC:377:MET:SD	8:OC:379:SER:HB2	2.61	0.40
9:OF:222:TYR:HD1	9:OF:222:TYR:HA	1.80	0.40
8:OG:422:ARG:HA	8:OG:422:ARG:HD2	1.82	0.40
9:OH:4:ILE:HD11	9:OH:134:GLN:HB2	2.03	0.40
8:OI:167:LEU:HD22	8:OI:200:CYS:SG	2.62	0.40
8:OI:203:MET:HE2	8:OI:203:MET:HA	2.02	0.40
8:OI:212:ILE:HD11	8:OI:300:ASN:HA	2.02	0.40
8:OI:348:PRO:HD2	9:OJ:388:MET:HE2	2.03	0.40
52:P:23:TRP:O	52:P:27:LEU:HD13	2.21	0.40
9:PB:404:ASP:HB2	9:PB:406:MET:SD	2.62	0.40
9:PD:186:THR:HB	9:PD:381:ILE:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PD:199:THR:HG1	9:PD:264:HIS:HE2	1.53	0.40
9:PD:318:ARG:HD3	9:PD:364:SER:HB2	2.04	0.40
8:PE:172:TYR:CD1	8:PE:173:PRO:HD2	2.56	0.40
8:PG:253:THR:O	8:PG:257:THR:OG1	2.31	0.40
8:PG:274:PRO:HG3	8:PG:374:ALA:HA	2.03	0.40
9:PH:101:TRP:HH2	9:PH:188:SER:HA	1.86	0.40
8:PI:240:ALA:HA	8:PI:243:ARG:HD3	2.04	0.40
9:PJ:117:LEU:O	9:PJ:121:ARG:NH1	2.53	0.40
9:PJ:183:TYR:CE2	9:PJ:388:MET:HE2	2.57	0.40
8:PM:381:THR:OG1	8:PM:382:THR:N	2.55	0.40
8:QA:263:PRO:HG3	9:QB:396:HIS:CD2	2.55	0.40
8:QE:188:ILE:HG13	8:QE:189:LEU:HD12	2.02	0.40
9:QH:156:ARG:NH1	9:QH:196:THR:HA	2.36	0.40
9:QJ:27:GLU:OE1	9:QJ:241:ARG:NH2	2.53	0.40
9:QJ:210:ILE:HD13	9:QJ:210:ILE:HA	1.85	0.40
8:RA:135:PHE:HB2	8:RA:166:LYS:HD3	2.03	0.40
9:RD:137:HIS:ND1	9:RD:167:PHE:O	2.53	0.40
9:RD:245:GLN:H	9:RD:245:GLN:HG2	1.61	0.40
8:RE:209:ILE:HD12	8:RE:227:LEU:HD23	2.02	0.40
8:RE:253:THR:HA	8:RE:256:GLN:NE2	2.36	0.40
9:RF:207:LEU:HA	9:RF:210:ILE:HG12	2.03	0.40
8:RG:259:LEU:HD23	8:RG:259:LEU:HA	1.93	0.40
8:RI:247:ALA:HB3	8:RI:355:ILE:HB	2.03	0.40
9:RJ:36:TYR:HB2	9:RJ:59:TYR:HE2	1.86	0.40
9:RJ:285:THR:HG22	9:RJ:287:PRO:HD3	2.04	0.40
8:RK:21:TRP:HA	8:RK:24:TYR:HB2	2.04	0.40
8:RK:116:ASP:OD1	8:RK:116:ASP:N	2.54	0.40
8:RM:172:TYR:HB2	8:RM:203:MET:HE3	2.03	0.40
8:RM:325:PRO:HA	8:RM:328:VAL:HG22	2.02	0.40
8:SA:135:PHE:HB2	8:SA:166:LYS:HG2	2.03	0.40
8:SA:346:TRP:HZ2	8:SA:435:VAL:HG13	1.87	0.40
8:SA:399:TYR:HD1	8:SA:402:ARG:HH21	1.69	0.40
9:SD:40:SER:OG	9:SD:41:ASP:N	2.55	0.40
9:SF:284:LEU:HD12	9:SF:284:LEU:HA	1.84	0.40
8:SI:353:VAL:N	9:SJ:177:ASP:OD1	2.53	0.40
9:SJ:293:MET:HE1	9:SJ:365:ALA:HB3	2.03	0.40
9:SL:204:ASN:HB3	9:SL:208:TYR:HE1	1.87	0.40
9:SL:381:ILE:HD13	9:SL:381:ILE:HA	1.93	0.40
8:SM:124:LYS:HB3	8:SM:124:LYS:HE2	1.84	0.40
9:TB:155:ILE:HG22	9:TB:156:ARG:HD2	2.04	0.40
9:TB:167:PHE:HD1	9:TB:233:MET:HE3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TC:223:THR:OG1	8:TC:224:TYR:N	2.54	0.40
9:TF:270:PHE:O	9:TF:298:ASN:ND2	2.52	0.40
9:TF:293:MET:HE1	9:TF:317:PHE:CZ	2.55	0.40
8:TI:79:ARG:HH12	8:TI:94:THR:HG21	1.86	0.40
9:TJ:95:SER:OG	9:TJ:108:GLU:OE1	2.34	0.40
8:UC:388:TRP:HD1	8:UC:388:TRP:HA	1.78	0.40
8:UI:26:LEU:HD12	8:UI:26:LEU:HA	1.90	0.40
9:UJ:249:ASP:OD2	9:UJ:251:ARG:N	2.53	0.40
1:V:180:ILE:HD13	1:V:180:ILE:HA	1.86	0.40
9:VB:255:VAL:HG21	8:VC:100:ALA:O	2.22	0.40
8:VC:154:MET:HA	8:VC:157:LEU:HD12	2.03	0.40
9:VD:170:VAL:HG11	9:VD:377:LEU:HD11	2.03	0.40
8:VG:189:LEU:HD11	8:VG:418:PHE:HE1	1.86	0.40
9:VL:22:GLU:HA	9:VL:81:PHE:CD2	2.57	0.40
9:VL:138:SER:OG	69:VL:501:GDP:O2B	2.38	0.40
9:WB:178:THR:HG22	9:WB:180:VAL:H	1.86	0.40
9:WB:217:LEU:HD23	9:WB:217:LEU:HA	1.85	0.40
8:WC:42:ILE:HD13	8:WC:42:ILE:HA	1.91	0.40
8:WC:223:THR:HG22	8:WC:224:TYR:H	1.86	0.40
8:WC:337:THR:CA	8:WC:339:ARG:HH22	2.32	0.40
9:WH:296:ALA:HA	9:WH:299:MET:HE2	2.03	0.40
9:WJ:189:VAL:HG21	9:WJ:378:PHE:HE1	1.86	0.40
9:WJ:366:THR:HG22	9:WJ:367:PHE:H	1.86	0.40
56:XG:99:VAL:HG21	56:XG:101:ARG:HH21	1.87	0.40
56:XH:118:ILE:HD12	56:XH:118:ILE:HA	1.91	0.40
56:XI:26:ASP:OD1	56:XI:27:LYS:N	2.50	0.40
56:XI:54:VAL:HG11	56:XI:86:TYR:HB3	2.04	0.40
56:XK:73:LEU:HA	56:XK:74:PRO:HD3	1.88	0.40
57:YH:73:ARG:O	57:YH:77:GLU:HG2	2.22	0.40
57:YH:154:LYS:HZ1	57:YH:192:GLN:HB3	1.86	0.40
57:YI:157:LEU:HB3	57:YI:196:ILE:HG21	2.03	0.40
59:b:249:ARG:NH1	59:b:253:ILE:HG13	2.36	0.40
59:c:127:GLN:HB3	59:c:131:LYS:NZ	2.37	0.40
63:l:55:MET:HB2	63:l:55:MET:HE3	1.85	0.40
3:x:132:VAL:HG11	3:x:190:PRO:HB2	2.01	0.40
4:z:1395:LEU:HD12	4:z:1395:LEU:HA	1.89	0.40
4:z:1476:GLU:OE1	4:z:1476:GLU:HA	2.21	0.40
2:0C:130:GLU:HA	2:0C:134:HIS:HB2	2.02	0.40
2:0c:99:GLU:O	2:0c:103:THR:HG22	2.22	0.40
2:0k:23:GLN:HE22	2:0k:122:VAL:HB	1.87	0.40
3:2:192:LYS:HD2	3:2:255:ARG:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A0:42:PRO:HD2	8:HK:160:ASP:CG	2.46	0.40
7:A3:54:ARG:C	9:QL:306:ARG:HH22	2.30	0.40
8:AA:113:GLU:C	8:AA:114:ILE:HD13	2.46	0.40
9:AB:142:GLY:N	69:AB:501:GDP:O3B	2.53	0.40
8:AE:119:LEU:HD23	8:AE:119:LEU:HA	1.93	0.40
9:AF:423:GLN:HG2	57:YJ:59:ALA:HB1	2.03	0.40
9:AH:320:ARG:H	9:AH:320:ARG:HG2	1.72	0.40
8:AI:102:ASN:HB2	8:AI:105:ARG:HB2	2.04	0.40
10:AQ:71:PRO:HG2	10:AQ:74:VAL:HG12	2.02	0.40
10:AS:71:PRO:HG2	10:AS:74:VAL:HB	2.03	0.40
12:AV:258:ILE:HA	12:AV:261:THR:HG22	2.04	0.40
12:AW:122:LYS:HD2	12:AW:222:PHE:CG	2.56	0.40
13:Ad:447:ASP:HB2	13:Ad:471:ARG:HD3	2.03	0.40
15:Ar:9:LEU:HD11	32:Cm:15:GLU:HB3	2.03	0.40
15:Ar:23:MET:HA	15:Ar:24:PRO:HD3	2.01	0.40
7:Au:228:MET:HA	8:FM:96:LYS:HD2	2.04	0.40
8:BC:79:ARG:HH12	8:BC:94:THR:HG21	1.85	0.40
8:BE:382:THR:HA	8:BE:432:TYR:HE1	1.86	0.40
9:BF:218:THR:HG1	9:BF:219:THR:H	1.67	0.40
9:BF:257:MET:HE1	9:BF:368:ILE:HG22	2.03	0.40
8:BG:248:LEU:HD11	9:BH:222:TYR:HE2	1.86	0.40
8:BK:202:PHE:CZ	8:BK:378:LEU:HD23	2.56	0.40
19:BP:415:LEU:O	19:BP:419:THR:HG23	2.21	0.40
19:BQ:242:LEU:HD23	19:BQ:242:LEU:HA	1.89	0.40
19:BR:153:LEU:HB3	19:BR:311:LEU:HD21	2.04	0.40
19:BR:205:GLU:O	19:BR:209:MET:HG2	2.22	0.40
20:BT:133:PHE:C	20:BT:135:THR:H	2.29	0.40
27:Br:47:ASN:OD1	27:Br:50:ARG:NH2	2.54	0.40
27:Bs:356:MET:HE3	27:Bs:356:MET:HB2	1.83	0.40
18:By:189:LYS:HD3	18:By:189:LYS:N	2.37	0.40
28:C0:410:GLU:HG3	28:C9:264:ALA:HB2	2.03	0.40
29:C1:417:PHE:HA	29:C1:420:VAL:HG12	2.04	0.40
28:C2:413:ARG:HD3	28:C4:293:THR:HG21	2.04	0.40
28:C4:179:LYS:HA	28:C4:182:GLU:HG2	2.04	0.40
28:C7:329:LEU:HD22	28:C7:487:VAL:HA	2.04	0.40
28:C9:379:ILE:O	28:C9:383:LYS:HG2	2.22	0.40
9:CB:321:MET:HE3	9:CB:326:VAL:HG21	2.04	0.40
8:CE:231:ILE:O	8:CE:235:VAL:HG13	2.22	0.40
8:CG:70:LEU:HA	8:CG:95:GLY:HA3	2.03	0.40
9:CJ:320:ARG:NH1	38:Df:18:GLN:O	2.54	0.40
9:CJ:336:LYS:HD3	9:CJ:336:LYS:HA	1.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CO:29:TYR:HE1	9:EF:285:THR:HG22	1.86	0.40
17:CQ:12:ILE:HD13	17:CQ:12:ILE:HA	1.89	0.40
2:CT:88:HIS:NE2	2:CT:90:GLY:O	2.45	0.40
2:CX:103:THR:O	2:CX:103:THR:OG1	2.36	0.40
2:CY:8:SER:HB3	2:CY:80:LEU:HD21	2.03	0.40
2:CY:44:ILE:HD13	2:CY:44:ILE:HA	1.84	0.40
33:Cs:67:ARG:O	33:Cs:71:VAL:HG23	2.22	0.40
33:Ct:215:LEU:HD23	33:Ct:215:LEU:HA	1.87	0.40
33:Cu:99:ALA:HA	33:Cu:247:ILE:HD11	2.03	0.40
33:Cv:315:HIS:CE1	33:Cx:205:PRO:HG3	2.56	0.40
29:D2:366:LYS:HB3	29:D8:113:ARG:NH2	2.36	0.40
29:D3:394:VAL:HA	29:D3:397:THR:HG22	2.03	0.40
29:D8:381:LEU:HB3	29:D8:437:LEU:HD13	2.04	0.40
29:D9:256:ASP:OD1	29:D9:260:LYS:NZ	2.30	0.40
8:DA:154:MET:SD	8:DA:194:THR:HG22	2.62	0.40
9:DB:208:TYR:CE2	9:DB:225:LEU:HD11	2.51	0.40
8:DC:286:LEU:O	8:DC:373:ARG:HD2	2.21	0.40
8:DE:48:SER:O	8:DE:48:SER:OG	2.38	0.40
9:DF:100:ASN:OD1	9:DF:101:TRP:N	2.55	0.40
9:DH:228:LEU:HA	9:DH:228:LEU:HD12	1.83	0.40
9:DH:383:GLU:HA	9:DH:386:THR:HG22	2.03	0.40
9:DJ:237:THR:O	9:DJ:237:THR:OG1	2.36	0.40
9:DL:359:ARG:HD3	9:DL:359:ARG:HA	1.86	0.40
8:DM:237:SER:HA	8:DM:240:ALA:HB2	2.04	0.40
29:DU:161:TYR:O	29:DU:165:ARG:HG2	2.21	0.40
29:DV:208:ASP:N	29:DV:208:ASP:OD2	2.54	0.40
43:E1:91:TYR:O	43:E1:95:HIS:HB2	2.22	0.40
43:E4:26:LEU:HD23	43:E4:26:LEU:HA	1.92	0.40
29:EA:180:LEU:HD12	29:EA:232:MET:HG2	2.04	0.40
29:EA:386:MET:HE2	29:EA:386:MET:HB2	2.00	0.40
9:EH:345:ILE:HG23	9:EH:348:ASN:OD1	2.22	0.40
9:EJ:423:GLN:NE2	9:EJ:426:GLN:HG3	2.36	0.40
8:EM:163:LYS:HA	8:EM:163:LYS:HD2	1.78	0.40
8:EM:271:THR:OG1	8:EM:272:TYR:N	2.54	0.40
8:EM:333:ALA:O	8:EM:337:THR:HG23	2.22	0.40
44:EU:117:LEU:HD12	44:EU:265:LEU:HD21	2.04	0.40
44:EX:136:GLN:OE1	44:EX:140:ARG:NH2	2.55	0.40
44:EX:321:HIS:O	44:EZ:71:ARG:NH2	2.55	0.40
44:EY:326:LEU:CD2	44:EY:409:ARG:HE	2.35	0.40
44:EZ:423:LEU:HA	44:EZ:423:LEU:HD12	1.81	0.40
35:Ee:199:PHE:CZ	8:LG:326:LYS:HG2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FG:153:LEU:HD12	8:FG:153:LEU:HA	1.89	0.40
8:FI:54:SER:HG	8:FI:64:ARG:HH12	1.65	0.40
8:FI:217:LEU:HD21	8:FI:368:LEU:HD12	2.03	0.40
8:FI:255:PHE:HZ	8:FI:318:LEU:HD11	1.86	0.40
8:FI:269:LEU:HD13	8:FI:303:VAL:HB	2.02	0.40
9:FJ:251:ARG:NH2	8:FK:105:ARG:HG3	2.35	0.40
8:FM:217:LEU:HD22	8:FM:367:ASP:HB2	2.04	0.40
8:GC:276:ILE:HD12	8:GC:276:ILE:HA	1.89	0.40
9:GF:406:MET:O	9:GF:410:GLU:HG3	2.21	0.40
8:GI:267:PHE:CD1	8:GI:388:TRP:HH2	2.39	0.40
8:GM:223:THR:OG1	8:GM:224:TYR:N	2.54	0.40
9:GN:132:GLY:HA2	9:GN:162:ARG:HB3	2.03	0.40
9:GN:356:ILE:HD13	9:GN:356:ILE:HA	1.94	0.40
9:HB:234:SER:OG	9:HB:241:ARG:NH2	2.52	0.40
8:HE:104:ALA:HB1	8:HE:411:GLU:HB3	2.03	0.40
9:HF:18:ALA:O	9:HF:22:GLU:HG2	2.22	0.40
9:HJ:73:MET:H	9:HJ:73:MET:HG3	1.67	0.40
9:HJ:73:MET:HE1	9:HJ:92:PHE:HB3	2.03	0.40
9:HJ:78:SER:O	9:HJ:78:SER:OG	2.33	0.40
9:HJ:325:GLU:OE2	9:HJ:325:GLU:N	2.40	0.40
8:HK:385:ALA:HB2	8:HK:432:TYR:CD1	2.57	0.40
9:HL:65:LEU:HB2	9:HL:90:PHE:HA	2.03	0.40
9:HN:134:GLN:HE22	9:HN:237:THR:HG21	1.86	0.40
9:HN:268:PRO:HG2	9:HN:300:MET:HB2	2.03	0.40
8:HO:138:PHE:HE1	8:HO:235:VAL:HG11	1.87	0.40
9:IB:228:LEU:HD11	9:IB:273:LEU:HD13	2.03	0.40
9:ID:157:GLU:H	9:ID:157:GLU:CD	2.30	0.40
8:IE:188:ILE:HD12	8:IE:425:LEU:HG	2.03	0.40
9:IH:155:ILE:HD13	9:IH:155:ILE:HA	1.86	0.40
9:IH:355:ASP:OD2	53:Q:99:THR:HG23	2.22	0.40
9:IN:66:VAL:HA	9:IN:91:VAL:HB	2.04	0.40
9:IN:336:LYS:HA	9:IN:336:LYS:HD2	1.93	0.40
8:IO:318:LEU:HD23	8:IO:318:LEU:HA	1.89	0.40
9:JF:152:ILE:HG22	9:JF:195:ASN:HB3	2.04	0.40
9:JF:270:PHE:CE2	9:JF:272:PRO:HD2	2.57	0.40
9:JF:286:VAL:HG22	9:JF:321:MET:HE2	2.04	0.40
9:JL:111:GLU:OE2	9:JL:111:GLU:N	2.43	0.40
8:JM:393:HIS:HB3	51:O:50:HIS:HB3	2.03	0.40
9:KD:218:THR:HB	47:X:34:ARG:HH12	1.87	0.40
9:KD:236:VAL:HG22	9:KD:368:ILE:HD11	2.03	0.40
9:KH:132:GLY:HA3	9:KH:163:ILE:HB	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KK:231:ILE:O	8:KK:235:VAL:HG23	2.21	0.40
8:KO:169:PHE:CE2	8:KO:235:VAL:HG22	2.56	0.40
50:L1:16:LYS:HA	50:L1:16:LYS:HD3	1.98	0.40
50:L1:61:LYS:HB3	50:L1:61:LYS:HE3	1.75	0.40
9:LF:356:ILE:HA	9:LF:356:ILE:HD13	1.86	0.40
8:LG:392:ASP:O	8:LG:396:ASP:HB2	2.22	0.40
8:LI:52:PHE:HZ	8:LI:239:THR:HG21	1.87	0.40
9:LJ:25:SER:HB3	9:LJ:30:ILE:HB	2.04	0.40
9:LL:286:VAL:O	9:LL:290:THR:HG23	2.21	0.40
8:MC:420:GLU:HA	8:MC:423:GLU:HG3	2.02	0.40
9:MD:8:GLN:HG2	9:MD:13:GLY:O	2.21	0.40
9:MD:68:LEU:HD23	9:MD:68:LEU:HA	1.91	0.40
8:ME:229:ARG:HD2	8:ME:363:VAL:HG11	2.02	0.40
8:MG:163:LYS:HA	8:MG:163:LYS:HD3	2.00	0.40
8:MG:296:PHE:HB3	8:MG:341:ILE:HD11	2.02	0.40
9:ML:103:LYS:HG3	9:ML:108:GLU:OE1	2.21	0.40
8:MM:273:ALA:HB2	8:MM:295:CYS:SG	2.61	0.40
9:MN:15:GLN:O	9:MN:226:ASN:ND2	2.54	0.40
9:MN:100:ASN:ND2	9:MN:397:TRP:O	2.55	0.40
9:MN:344:TRP:CD1	9:MN:344:TRP:H	2.38	0.40
8:NC:51:THR:HG21	8:NC:243:ARG:HG2	2.04	0.40
8:NC:209:ILE:HD12	8:NC:209:ILE:H	1.85	0.40
9:ND:20:PHE:HE1	9:ND:234:SER:HB2	1.86	0.40
8:NE:203:MET:HE2	8:NE:203:MET:HA	2.03	0.40
8:NG:155:GLU:HB3	8:NG:197:HIS:ND1	2.37	0.40
9:NH:248:ALA:HA	9:NH:252:LYS:HE3	2.03	0.40
9:NJ:113:VAL:HG11	9:NJ:150:LEU:HG	2.04	0.40
9:O0:323:MET:HE3	9:O0:323:MET:HB3	1.89	0.40
8:OA:14:VAL:HA	8:OA:67:PHE:HE1	1.86	0.40
8:OA:286:LEU:O	8:OA:373:ARG:NH1	2.54	0.40
9:OB:12:CYS:HB2	69:OB:501:GDP:C8	2.57	0.40
9:OB:257:MET:HA	9:OB:312:THR:HG21	2.03	0.40
8:OC:254:GLU:O	8:OC:258:ASN:HB2	2.21	0.40
9:OD:142:GLY:N	69:OD:501:GDP:O2B	2.45	0.40
8:OE:349:THR:OG1	9:OF:179:VAL:HA	2.22	0.40
9:OF:69:GLU:HG2	9:OF:96:GLY:HA3	2.04	0.40
9:OF:238:THR:HG21	9:OF:318:ARG:HD2	2.03	0.40
9:OH:270:PHE:O	9:OH:298:ASN:ND2	2.51	0.40
9:OH:378:PHE:HD1	9:OH:415:MET:HE1	1.87	0.40
8:OI:62:VAL:HA	8:OI:63:PRO:HD3	1.95	0.40
8:OI:123:ARG:HH12	8:PI:293:ASN:HD22	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OI:345:ASP:OD1	8:OI:346:TRP:N	2.55	0.40
8:OK:98:ASP:OD1	8:OK:99:ALA:N	2.54	0.40
9:OL:6:HIS:HD2	9:OL:21:TRP:HE1	1.68	0.40
9:OL:64:VAL:HA	9:OL:89:ASN:HD22	1.86	0.40
9:OL:155:ILE:HD13	9:OL:155:ILE:HA	1.98	0.40
52:P:85:VAL:HG21	59:c:210:LEU:HB3	2.04	0.40
9:PB:272:PRO:HB3	9:PB:289:LEU:HD21	2.04	0.40
8:PC:71:GLU:HB3	8:PC:98:ASP:OD2	2.21	0.40
8:PC:392:ASP:HB2	8:PC:422:ARG:CZ	2.50	0.40
8:PG:357:TYR:HD1	8:PG:357:TYR:HA	1.76	0.40
8:PI:332:ILE:H	8:PI:332:ILE:HG12	1.76	0.40
8:PK:335:ILE:HD12	8:PK:335:ILE:HA	1.89	0.40
9:PL:153:SER:HA	9:PL:195:ASN:ND2	2.36	0.40
9:QF:66:VAL:HG11	9:QF:147:MET:HG2	2.03	0.40
8:QG:209:ILE:HD12	8:QG:227:LEU:HD23	2.04	0.40
8:QG:335:ILE:HG22	8:QG:336:LYS:HD2	2.04	0.40
9:QH:323:MET:HE2	9:QH:323:MET:HB3	1.91	0.40
9:QJ:282:ARG:CZ	9:QJ:282:ARG:HA	2.50	0.40
8:QM:118:VAL:HG11	8:QM:153:LEU:HD11	2.04	0.40
8:QM:164:LYS:HE2	8:QM:164:LYS:HB2	1.95	0.40
54:R:267:GLU:OE1	54:R:267:GLU:N	2.55	0.40
8:RA:19:ALA:O	8:RA:23:LEU:HD22	2.22	0.40
9:RF:217:LEU:HD23	9:RF:220:PRO:HB3	2.03	0.40
9:RF:284:LEU:HG	9:RF:363:MET:HB3	2.03	0.40
8:RI:414:GLU:CD	8:RI:416:GLY:H	2.30	0.40
9:RJ:131:GLN:HA	9:RJ:162:ARG:HH11	1.85	0.40
9:RJ:252:LYS:HG3	8:RK:100:ALA:HB1	2.03	0.40
9:RJ:262:ARG:NH2	9:RJ:414:ASN:OD1	2.54	0.40
9:RJ:267:MET:N	9:RJ:268:PRO:HG2	2.35	0.40
9:RL:122:LYS:HD3	9:RL:122:LYS:HA	1.81	0.40
9:SB:19:LYS:O	9:SB:23:VAL:HG12	2.21	0.40
9:SB:52:ASN:OD1	9:SB:62:ARG:NH1	2.55	0.40
8:SE:325:PRO:HG3	8:SE:355:ILE:HD13	2.04	0.40
9:SF:257:MET:HE3	9:SF:257:MET:HB3	1.79	0.40
9:SF:398:TYR:HB3	9:SF:408:PHE:HZ	1.86	0.40
9:SH:145:SER:O	9:SH:149:THR:HG23	2.22	0.40
8:SM:57:GLY:H	8:TM:285:GLN:NE2	2.20	0.40
8:SM:216:ASN:OD1	8:SM:300:ASN:ND2	2.55	0.40
8:SM:217:LEU:HB3	8:SM:219:ILE:HG12	2.03	0.40
9:TB:2:ARG:HE	9:TB:2:ARG:HB2	1.73	0.40
9:TB:3:GLU:OE2	9:TB:62:ARG:NH2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TC:262:TYR:HA	9:TD:396:HIS:HE1	1.86	0.40
8:TE:208:ALA:O	8:TE:212:ILE:HG22	2.22	0.40
8:TG:392:ASP:OD1	8:TG:422:ARG:NE	2.55	0.40
8:TK:167:LEU:HD21	8:TK:255:PHE:HE1	1.86	0.40
9:TL:344:TRP:CD1	9:TL:344:TRP:H	2.39	0.40
8:TM:298:PRO:HG2	8:TM:308:ARG:NH1	2.37	0.40
9:UB:86:ARG:HA	9:VB:281:TYR:CD2	2.57	0.40
9:UB:109:GLY:O	9:UB:113:VAL:HG13	2.22	0.40
9:UB:173:PRO:HB3	9:UB:380:ARG:HE	1.86	0.40
9:UD:105:HIS:CE1	9:UD:150:LEU:HG	2.56	0.40
9:UD:163:ILE:H	9:UD:163:ILE:HG12	1.66	0.40
9:UD:173:PRO:HD3	9:UD:380:ARG:NH2	2.37	0.40
9:UD:252:LYS:HA	9:UD:252:LYS:HE3	2.04	0.40
8:UE:97:GLU:HB3	8:UE:105:ARG:HH22	1.87	0.40
9:UF:168:SER:N	9:UF:200:TYR:O	2.53	0.40
9:UJ:151:LEU:O	9:UJ:155:ILE:HG12	2.22	0.40
8:UK:305:CYS:SG	8:UK:306:ASP:N	2.94	0.40
9:UL:103:LYS:HA	9:UL:103:LYS:HE2	2.03	0.40
9:UL:132:GLY:HA3	9:UL:163:ILE:HG22	2.04	0.40
9:UL:255:VAL:HG12	8:UM:407:TRP:CD2	2.56	0.40
9:UL:288:GLU:OE2	9:UL:288:GLU:N	2.38	0.40
8:UM:145:THR:O	8:UM:149:PHE:HB3	2.21	0.40
1:V:139:LEU:HB3	1:V:140:PHE:CD2	2.56	0.40
1:V:140:PHE:HE1	1:V:142:ARG:HE	1.69	0.40
8:VC:5:ILE:HD13	8:VC:5:ILE:HA	1.84	0.40
8:VE:96:LYS:HD3	8:VE:96:LYS:HA	1.95	0.40
8:VE:244:PHE:HB2	8:VE:356:ASN:HD21	1.85	0.40
8:VE:282:TYR:HE2	59:b:477:ARG:HG3	1.86	0.40
8:VE:370:LYS:NZ	8:VE:370:LYS:HB2	2.37	0.40
9:VF:43:GLN:H	9:VF:43:GLN:HG2	1.65	0.40
8:VG:46:ASP:OD1	8:VG:46:ASP:N	2.54	0.40
8:VG:128:LEU:HD23	8:VG:128:LEU:HA	1.90	0.40
9:VH:20:PHE:CD1	9:VH:233:MET:HE2	2.56	0.40
8:VI:22:GLU:OE1	8:VI:83:TYR:OH	2.39	0.40
9:VJ:256:ASN:OD1	9:VJ:350:LYS:HB2	2.21	0.40
9:VN:356:ILE:HD13	9:VN:356:ILE:HA	1.86	0.40
9:WB:311:LEU:HD12	9:WB:311:LEU:HA	1.87	0.40
9:WB:314:ALA:HB3	9:WB:368:ILE:HB	2.02	0.40
9:WB:330:MET:HA	9:WB:333:VAL:HG12	2.02	0.40
9:WB:402:GLY:C	9:WB:403:MET:HE2	2.47	0.40
8:WC:425:LEU:HA	8:WC:425:LEU:HD12	1.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WE:324:VAL:HG23	8:WE:327:ASP:HB2	2.02	0.40
8:WG:349:THR:OG1	8:WG:350:GLY:N	2.55	0.40
8:WI:203:MET:HE2	8:WI:203:MET:HB2	1.84	0.40
9:WJ:386:THR:OG1	9:WJ:390:ARG:NH2	2.52	0.40
8:WK:322:ASP:OD1	8:WK:322:ASP:N	2.53	0.40
8:WM:185:TYR:CD2	8:WM:408:TYR:HE2	2.39	0.40
8:WM:288:VAL:HG22	8:WM:323:VAL:HG12	2.03	0.40
9:WN:45:GLU:OE2	9:WN:46:ARG:NH2	2.55	0.40
47:X:447:ASP:HB2	47:X:471:LYS:HE3	2.03	0.40
56:XK:28:LYS:HA	56:XK:28:LYS:HD2	1.85	0.40
56:XK:45:LEU:O	56:XK:163:ARG:NH2	2.55	0.40
57:YG:78:ARG:HA	57:YG:78:ARG:HD3	1.92	0.40
57:YK:116:LEU:HD13	57:YK:168:THR:HG22	2.03	0.40
59:a:101:ILE:H	59:a:101:ILE:HG13	1.74	0.40
59:b:435:VAL:HG13	59:b:438:GLN:HE21	1.86	0.40
59:c:132:GLU:O	59:c:136:ILE:HG23	2.21	0.40
59:d:503:GLU:C	59:d:507:LYS:HZ2	2.30	0.40
60:e:177:PHE:CE2	60:e:214:ILE:HD11	2.57	0.40
60:g:275:LEU:HD23	60:g:275:LEU:HA	1.87	0.40
60:g:295:GLY:O	60:g:313:GLU:N	2.54	0.40
60:g:553:GLY:HA3	60:g:596:ILE:HG22	2.04	0.40
63:l:26:LYS:HA	63:l:26:LYS:HD2	1.83	0.40
63:l:50:VAL:HG13	63:l:102:LEU:HG	2.04	0.40
63:l:51:ILE:HB	63:l:103:LEU:HD13	2.03	0.40
46:o:398:ILE:HD13	46:o:398:ILE:HA	1.92	0.40
66:w:375:PHE:O	66:w:379:THR:HG23	2.21	0.40
4:z:1370:LYS:HE2	4:z:1370:LYS:HB2	1.95	0.40
2:0A:145:ILE:HD12	2:0A:145:ILE:HA	1.80	0.40
2:0g:80:LEU:HD12	2:0g:80:LEU:HA	1.86	0.40
2:0i:77:LEU:HD13	2:0i:145:ILE:HG21	2.03	0.40
3:2:180:PRO:HD3	3:2:196:TRP:CE2	2.56	0.40
4:3:1406:LYS:NZ	4:3:1447:THR:O	2.54	0.40
7:A4:165:GLY:H	9:RL:306:ARG:HE	1.69	0.40
7:A7:179:THR:HA	7:A7:180:PRO:HD3	1.72	0.40
8:AC:102:ASN:HB3	8:AC:105:ARG:H	1.86	0.40
9:AD:321:MET:HA	15:Ar:37:PHE:CE1	2.56	0.40
8:AE:3:GLU:HG2	8:AE:132:LEU:HD12	2.02	0.40
8:AE:124:LYS:HB2	8:AE:124:LYS:HE3	1.75	0.40
9:AF:322:SER:OG	9:AF:325:GLU:HG3	2.21	0.40
8:AI:102:ASN:HB3	8:AI:105:ARG:H	1.87	0.40
8:AM:147:SER:HB2	8:AM:190:THR:HB	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AT:130:MET:HA	11:AT:133:LYS:HE3	2.03	0.40
11:AT:296:MET:HE2	11:AT:296:MET:HB2	2.00	0.40
12:AV:91:LYS:NZ	12:AV:166:ASP:OD1	2.36	0.40
13:Aa:627:MET:HE2	13:Aa:627:MET:HB2	1.86	0.40
13:Ab:166:LYS:HB3	13:Ab:166:LYS:HE2	1.88	0.40
13:Ab:642:LYS:HA	13:Ab:642:LYS:HD3	1.87	0.40
13:Ac:427:ILE:HD13	13:Ac:427:ILE:HA	1.87	0.40
16:At:214:GLU:OE2	9:EL:94:GLN:NE2	2.52	0.40
7:Av:125:SER:OG	9:OL:295:ASP:OD1	2.24	0.40
7:Av:172:PHE:HB2	8:OI:326:LYS:NZ	2.37	0.40
7:Aw:32:ILE:HB	8:OE:215:ARG:HH12	1.87	0.40
7:Ay:106:TYR:CZ	8:FG:119:LEU:HB3	2.56	0.40
17:B1:37:TRP:CD1	8:MK:299:ALA:HA	2.57	0.40
17:B4:214:ARG:NH1	43:E4:30:ASP:HB3	2.36	0.40
14:B7:238:ARG:HB2	8:FK:279:GLU:OE2	2.21	0.40
8:BA:231:ILE:HA	8:BA:234:ILE:HG22	2.04	0.40
9:BD:404:ASP:OD1	9:BD:405:GLU:N	2.54	0.40
9:BF:255:VAL:O	8:BG:404:PHE:HE1	2.04	0.40
8:BG:58:ALA:HB3	47:I:233:LYS:HE2	2.03	0.40
8:BG:191:THR:HB	8:BG:425:LEU:HD21	2.03	0.40
8:BI:399:TYR:OH	8:BI:415:GLU:OE1	2.26	0.40
9:BJ:284:LEU:HD12	9:BJ:284:LEU:HA	1.87	0.40
8:BM:219:ILE:HG21	8:BM:222:PRO:HB3	2.04	0.40
6:BN:217:PRO:HB3	9:HN:126:SER:HA	2.03	0.40
19:BR:152:ARG:HH11	54:S:229:PRO:HB3	1.87	0.40
19:BR:191:ILE:HD12	19:BR:191:ILE:HA	1.84	0.40
20:BT:185:LYS:HE3	20:BT:185:LYS:HB3	1.91	0.40
21:BU:11:GLU:N	21:BU:11:GLU:OE1	2.54	0.40
21:Bj:65:PHE:CD2	9:KH:362:LYS:HG3	2.56	0.40
25:Bo:172:UNK:O	9:PH:320:ARG:NH2	2.54	0.40
27:Bs:195:LEU:HB3	45:G:535:LEU:HD22	2.04	0.40
5:C:142:PRO:HA	5:C:143:PRO:HD3	1.96	0.40
29:C1:266:ILE:HA	29:C1:270:CYS:HB2	2.04	0.40
28:C2:375:THR:HA	28:C2:378:THR:HG22	2.03	0.40
28:C4:472:LYS:HA	28:C4:472:LYS:HD2	1.84	0.40
28:C8:400:LEU:HD23	28:C8:400:LEU:HA	1.91	0.40
8:CA:11:GLN:NE2	67:CA:501:GTP:H8	2.20	0.40
9:CB:151:LEU:HD22	9:CB:155:ILE:HD11	2.03	0.40
8:CE:240:ALA:HB1	8:CE:356:ASN:HD22	1.86	0.40
9:CH:287:PRO:HA	9:CH:290:THR:HG22	2.04	0.40
9:CL:68:LEU:HD12	9:CL:97:ALA:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CM:42:ILE:HD13	8:CM:42:ILE:HA	1.87	0.40
8:CM:195:LEU:HD21	8:CM:428:LEU:HD22	2.04	0.40
17:CQ:26:LYS:HA	17:CQ:26:LYS:HD2	1.90	0.40
2:CV:33:CYS:C	2:CV:34:ARG:HD3	2.47	0.40
2:Cb:34:ARG:HE	2:Cb:135:TYR:HE1	1.70	0.40
2:Cb:114:LEU:HD11	2:Cb:144:ILE:HD11	2.03	0.40
2:Cc:97:LEU:HD11	2:Cc:148:LEU:HG	2.03	0.40
2:Cg:34:ARG:NH2	2:Cg:44:ILE:HD13	2.36	0.40
2:Ck:13:GLU:HB3	2:Ck:146:LEU:CD1	2.51	0.40
32:Cm:192:ASN:OD1	32:Cm:192:ASN:N	2.54	0.40
32:Cp:395:LYS:HB3	32:Cp:395:LYS:HE2	1.71	0.40
33:Cr:332:ASP:N	33:Cr:332:ASP:OD1	2.45	0.40
33:Cu:115:GLU:HG3	44:EY:410:MET:HE3	2.04	0.40
33:Cv:5:SER:HB2	44:EX:326:LEU:HD11	2.02	0.40
33:Cv:161:LYS:HZ2	33:Cv:236:ALA:HB2	1.86	0.40
29:D1:187:LEU:HD21	29:D1:335:LEU:HD21	2.03	0.40
29:D5:280:ILE:HG23	29:D7:393:LYS:HE3	2.02	0.40
8:DA:6:SER:HB3	8:DA:8:HIS:NE2	2.37	0.40
9:DB:190:HIS:CE1	9:DB:191:GLN:HB2	2.57	0.40
8:DC:269:LEU:N	8:DC:379:SER:O	2.47	0.40
8:DE:103:TYR:O	8:DE:107:HIS:HB2	2.21	0.40
8:DE:326:LYS:HB2	9:DF:208:TYR:HE1	1.84	0.40
9:DF:193:VAL:HG11	9:DF:418:LEU:HD21	2.03	0.40
9:DH:167:PHE:CD1	9:DH:233:MET:HE1	2.56	0.40
9:DH:267:MET:HA	9:DH:268:PRO:HD3	1.88	0.40
8:DI:119:LEU:HA	8:DI:119:LEU:HD13	1.88	0.40
9:DL:323:MET:SD	9:DL:323:MET:N	2.92	0.40
29:DQ:390:CYS:SG	44:EW:61:TYR:OH	2.67	0.40
29:DR:162:GLU:HG2	29:DR:307:ILE:HG13	2.03	0.40
29:DW:469:LYS:HZ2	29:DW:470:GLU:HG2	1.87	0.40
29:DX:212:ASP:O	29:DX:214:VAL:N	2.54	0.40
38:Dh:23:ILE:HD12	38:Dh:26:ARG:HH21	1.87	0.40
39:Dk:98:LEU:HD13	39:Dk:98:LEU:HA	1.97	0.40
43:E4:145:ARG:HH11	28:F3:450:HIS:HB3	1.85	0.40
8:EC:361:THR:OG1	8:EC:362:VAL:N	2.55	0.40
9:ED:27:GLU:HA	9:ED:359:ARG:NH1	2.37	0.40
9:EF:318:ARG:HH21	9:EF:357:PRO:C	2.30	0.40
8:EG:175:PRO:HG3	8:EG:390:ARG:NH1	2.37	0.40
8:EG:227:LEU:HA	8:EG:227:LEU:HD12	1.90	0.40
9:EH:216:LYS:HG2	9:EH:275:SER:HB3	2.03	0.40
9:EH:265:PHE:C	9:EH:266:PHE:HD2	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EI:27:GLU:OE2	8:EI:243:ARG:NH2	2.52	0.40
8:EI:27:GLU:HG2	8:EI:361:THR:HG21	2.04	0.40
9:EJ:344:TRP:CZ3	8:EK:403:ALA:HB2	2.56	0.40
9:EJ:372:THR:HA	9:EJ:422:TYR:CE2	2.55	0.40
8:EM:259:LEU:HD12	8:EM:259:LEU:HA	1.94	0.40
9:EN:207:LEU:HA	9:EN:210:ILE:HG12	2.04	0.40
29:EP:266:ILE:HD13	29:EP:266:ILE:HA	1.94	0.40
42:F:297:LYS:HE2	8:IE:357:TYR:CE1	2.57	0.40
42:F:337:LYS:HE3	42:F:357:ASN:ND2	2.37	0.40
42:F:495:PRO:HD3	8:HK:57:GLY:HA2	2.03	0.40
28:F2:178:LYS:HB3	28:F2:178:LYS:HE3	1.89	0.40
28:F4:234:LYS:HE3	28:F4:234:LYS:HB2	1.93	0.40
28:F4:478:ARG:NH1	28:F4:478:ARG:HB2	2.37	0.40
28:F6:57:LYS:HE3	28:F6:57:LYS:HB2	1.72	0.40
9:FB:325:GLU:OE1	8:FC:221:ARG:HG3	2.22	0.40
8:FC:6:SER:O	8:FC:6:SER:OG	2.30	0.40
9:FD:270:PHE:CE2	9:FD:272:PRO:HD2	2.57	0.40
9:FF:404:ASP:OD1	9:FF:404:ASP:N	2.44	0.40
9:FH:334:GLN:HE22	9:FH:348:ASN:HB2	1.86	0.40
9:FL:20:PHE:CD1	9:FL:233:MET:HE3	2.57	0.40
9:FL:161:ASP:OD1	9:FL:161:ASP:N	2.43	0.40
9:FN:142:GLY:N	69:FN:501:GDP:O2B	2.54	0.40
9:FN:151:LEU:HD23	9:FN:151:LEU:HA	1.91	0.40
9:FN:215:LEU:HD23	9:FN:215:LEU:HA	1.88	0.40
9:GD:359:ARG:HA	9:GD:359:ARG:HD2	1.90	0.40
8:GG:238:ILE:HD13	8:GG:238:ILE:HA	1.92	0.40
8:GG:381:THR:O	8:GG:432:TYR:OH	2.26	0.40
9:GH:258:VAL:HG23	8:GI:407:TRP:HE1	1.86	0.40
8:GM:219:ILE:HD11	8:GM:222:PRO:HB3	2.03	0.40
46:H:605:TYR:O	46:o:278:SER:OG	2.35	0.40
8:HC:183:GLU:O	8:HC:187:SER:HB3	2.21	0.40
9:HF:344:TRP:HA	8:HG:397:LEU:HD12	2.04	0.40
8:HG:372:GLN:OE1	8:HG:373:ARG:NE	2.55	0.40
8:HI:9:VAL:HG12	8:HI:68:VAL:HG13	2.03	0.40
9:HJ:127:CYS:SG	9:HJ:128:ASP:N	2.94	0.40
8:HK:2:ARG:HH11	8:HK:2:ARG:HG3	1.86	0.40
8:HO:175:PRO:HG3	8:HO:304:LYS:HB2	2.03	0.40
8:IC:112:LYS:HA	8:IC:112:LYS:HD2	1.86	0.40
9:ID:135:LEU:HD22	9:ID:152:ILE:HD11	2.02	0.40
9:ID:388:MET:HE3	9:ID:388:MET:HB2	1.75	0.40
8:IG:110:ILE:HD12	8:IG:110:ILE:HA	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IH:139:LEU:HA	9:IH:145:SER:HB2	2.04	0.40
9:IJ:115:SER:O	9:IJ:119:VAL:HG13	2.21	0.40
8:IM:42:ILE:H	8:IM:42:ILE:HG12	1.68	0.40
8:IM:103:TYR:CE1	8:IM:148:GLY:HA2	2.57	0.40
9:IN:47:ILE:HG12	9:IN:51:TYR:HB2	2.03	0.40
8:IO:93:ILE:HD11	8:IO:121:ARG:HG3	2.04	0.40
8:IO:331:ALA:HA	8:IO:334:THR:HG22	2.03	0.40
8:JC:423:GLU:OE1	58:q:84:LYS:HG2	2.20	0.40
8:JI:3:GLU:OE2	8:JI:130:THR:N	2.52	0.40
8:JI:81:GLY:HA2	53:Q:143:MET:HE1	2.02	0.40
9:JJ:267:MET:HE2	9:JJ:301:ALA:HB3	2.04	0.40
8:JK:183:GLU:O	8:JK:187:SER:OG	2.28	0.40
9:JL:320:ARG:HD2	9:JL:355:ASP:HB2	2.02	0.40
8:JM:139:HIS:HE1	8:JM:168:GLU:OE2	2.03	0.40
49:K1:49:ALA:HB3	8:UK:223:THR:OG1	2.21	0.40
9:KB:337:ASN:HB3	9:KB:340:TYR:HB2	2.02	0.40
9:KF:117:LEU:HD23	9:KF:117:LEU:HA	1.94	0.40
8:KG:213:CYS:HB2	8:KG:222:PRO:HG3	2.03	0.40
8:KG:254:GLU:HG3	9:KH:98:GLY:HA2	2.03	0.40
8:KI:102:ASN:HB3	8:KI:105:ARG:HB2	2.03	0.40
9:KN:181:GLU:HG2	9:KN:182:PRO:HD3	2.03	0.40
8:KO:291:ILE:H	8:KO:291:ILE:HG12	1.72	0.40
9:LB:60:VAL:HA	9:LB:61:PRO:HD3	1.97	0.40
8:LC:42:ILE:H	47:X:51:ARG:HH12	1.69	0.40
8:LC:156:ARG:HA	8:LC:159:VAL:HG12	2.02	0.40
8:LE:378:LEU:HD23	8:LE:378:LEU:HA	1.89	0.40
9:LF:311:LEU:HD23	9:LF:311:LEU:HA	1.92	0.40
9:LJ:11:GLN:O	9:LJ:15:GLN:HG3	2.22	0.40
9:LJ:39:ASP:N	9:LJ:39:ASP:OD1	2.54	0.40
9:LJ:289:LEU:O	9:LJ:293:MET:HG3	2.21	0.40
9:LJ:350:LYS:HD3	8:LK:180:ALA:HA	2.03	0.40
9:LJ:381:ILE:HD11	9:LJ:415:MET:HE1	2.04	0.40
8:LK:110:ILE:HD12	8:LK:110:ILE:HG23	1.93	0.40
8:LK:212:ILE:HD11	8:LK:300:ASN:HA	2.04	0.40
9:LN:224:ASP:OD2	9:LN:224:ASP:N	2.53	0.40
9:LN:405:GLU:OE1	9:LN:405:GLU:N	2.39	0.40
8:MC:381:THR:HG22	8:MC:383:ALA:H	1.86	0.40
8:MC:413:MET:HG2	8:MC:414:GLU:H	1.86	0.40
9:MD:24:ILE:HD13	9:MD:24:ILE:HA	1.97	0.40
9:MD:331:LEU:HD11	8:ME:176:GLN:HB3	2.04	0.40
8:ME:17:GLY:HA2	8:ME:20:CYS:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:ME:71:GLU:HA	8:ME:72:PRO:HD3	1.90	0.40
9:MF:246:LEU:HD12	9:MF:246:LEU:HA	1.88	0.40
8:MG:228:ASN:HA	8:MG:231:ILE:HD12	2.03	0.40
9:MH:246:LEU:HD12	9:MH:246:LEU:HA	1.98	0.40
8:MI:88:HIS:HE1	8:MI:90:GLU:HB3	1.85	0.40
9:MJ:344:TRP:CD1	9:MJ:344:TRP:H	2.40	0.40
8:MK:24:TYR:OH	8:MK:235:VAL:HG12	2.22	0.40
8:MK:178:SER:OG	8:MK:180:ALA:O	2.40	0.40
9:N0:167:PHE:CZ	9:N0:233:MET:HG3	2.56	0.40
9:N0:285:THR:HB	9:N0:287:PRO:HD2	2.02	0.40
8:NA:286:LEU:HD23	8:NA:371:VAL:HG23	2.04	0.40
8:NA:306:ASP:HA	8:NA:307:PRO:HD3	1.90	0.40
8:NC:67:PHE:O	8:NC:93:ILE:N	2.54	0.40
9:NF:117:LEU:HA	9:NF:120:VAL:HB	2.04	0.40
9:NH:86:ARG:HB3	9:NH:89:ASN:OD1	2.22	0.40
9:NH:348:ASN:OD1	9:NH:348:ASN:N	2.53	0.40
9:NJ:391:ARG:HA	9:NJ:391:ARG:HD3	1.82	0.40
8:OA:134:GLY:HA3	8:OA:252:LEU:HD23	2.03	0.40
8:OE:69:ASP:OD1	8:OE:70:LEU:N	2.55	0.40
8:OG:399:TYR:CE2	8:OG:402:ARG:HB2	2.57	0.40
9:OH:112:LEU:HD23	9:OH:147:MET:HE1	2.04	0.40
8:OK:56:THR:OG1	8:OK:57:GLY:N	2.55	0.40
9:OL:270:PHE:CE1	9:OL:272:PRO:HD2	2.57	0.40
52:P:37:TRP:CZ3	52:P:42:GLY:HA2	2.57	0.40
8:PA:184:PRO:HG3	8:PA:394:LYS:HG3	2.04	0.40
9:PD:46:ARG:HD3	9:PD:46:ARG:HA	1.84	0.40
9:PF:73:MET:HB3	9:PF:77:ARG:HH21	1.87	0.40
9:PH:295:ASP:HB2	9:PH:298:ASN:HB2	2.02	0.40
9:PH:318:ARG:HG2	9:PH:354:CYS:HB3	2.04	0.40
8:PI:238:ILE:HD13	8:PI:238:ILE:HA	1.85	0.40
8:PI:338:LYS:HA	8:PI:338:LYS:HD3	1.82	0.40
9:PJ:265:PHE:HB3	9:PJ:374:ILE:CD1	2.45	0.40
9:QB:252:LYS:NZ	8:QC:101:ASN:OD1	2.38	0.40
8:QC:26:LEU:HD12	8:QC:26:LEU:HA	1.93	0.40
8:QC:53:PHE:HB3	8:QC:61:HIS:HB3	2.03	0.40
8:QC:98:ASP:OD1	8:QC:98:ASP:N	2.51	0.40
9:QD:97:ALA:O	9:QD:100:ASN:ND2	2.55	0.40
9:QD:152:ILE:HG21	9:QD:196:THR:HB	2.03	0.40
9:QD:182:PRO:O	9:QD:186:THR:HG23	2.22	0.40
8:QE:21:TRP:HH2	8:QE:52:PHE:HB3	1.85	0.40
9:QF:155:ILE:HD13	9:QF:155:ILE:HA	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QF:216:LYS:HA	9:QF:216:LYS:HE3	2.03	0.40
9:QJ:19:LYS:HB2	9:QJ:19:LYS:HE3	1.89	0.40
9:QJ:321:MET:HE3	9:QJ:321:MET:HB3	1.88	0.40
54:R:187:ARG:O	54:R:190:GLN:HG3	2.22	0.40
8:RA:416:GLY:O	8:RA:419:SER:OG	2.33	0.40
9:RB:263:LEU:HG	9:RB:422:TYR:CZ	2.57	0.40
8:RC:319:TYR:CD1	8:RC:323:VAL:HG21	2.56	0.40
8:RK:195:LEU:HD23	8:RK:195:LEU:HA	1.91	0.40
9:RL:216:LYS:HD3	9:RL:216:LYS:HA	1.78	0.40
8:SA:157:LEU:HA	8:SA:160:ASP:HB2	2.03	0.40
8:SA:205:ASP:O	8:SA:209:ILE:HG12	2.22	0.40
8:SA:324:VAL:HG12	8:SA:326:LYS:H	1.85	0.40
8:SA:390:ARG:O	8:SA:394:LYS:NZ	2.53	0.40
9:SB:58:LYS:HE3	9:SB:58:LYS:HB3	1.92	0.40
8:SC:308:ARG:H	8:SC:308:ARG:HG3	1.73	0.40
8:SC:319:TYR:HB2	8:SC:355:ILE:HD13	2.03	0.40
8:SE:70:LEU:HB3	8:SE:98:ASP:HA	2.04	0.40
8:SE:209:ILE:HA	8:SE:212:ILE:HG22	2.04	0.40
8:SK:47:ASP:OD1	8:SK:50:ASN:HB2	2.22	0.40
8:SM:161:TYR:HB3	8:SM:164:LYS:HG2	2.02	0.40
9:TB:229:VAL:O	9:TB:233:MET:HG3	2.21	0.40
8:TC:224:TYR:HE2	67:TC:501:GTP:C2	2.40	0.40
8:TG:286:LEU:HD12	8:TG:291:ILE:HG22	2.03	0.40
9:TH:337:ASN:N	9:TH:337:ASN:HD22	2.19	0.40
8:TK:200:CYS:SG	8:TK:201:ALA:N	2.95	0.40
8:TK:275:VAL:HG13	8:TK:368:LEU:HD21	2.04	0.40
9:UB:155:ILE:HD13	9:UB:155:ILE:HA	1.90	0.40
9:UB:347:ASN:HD22	9:UB:347:ASN:HA	1.70	0.40
9:UB:375:GLN:O	9:UB:379:LYS:HG3	2.21	0.40
8:UC:26:LEU:HD23	8:UC:363:VAL:HG12	2.03	0.40
8:UC:107:HIS:HA	8:UC:152:LEU:HD21	2.04	0.40
8:UE:224:TYR:CD2	8:UE:227:LEU:HD23	2.55	0.40
9:UF:54:ALA:HB3	9:UF:58:LYS:HB2	2.03	0.40
8:UI:262:TYR:OH	9:UJ:391:ARG:O	2.33	0.40
9:UJ:249:ASP:OD2	9:UJ:252:LYS:HG3	2.21	0.40
8:UK:153:LEU:HA	8:UK:153:LEU:HD12	1.87	0.40
9:UL:11:GLN:NE2	69:UL:501:GDP:O3B	2.47	0.40
9:VD:11:GLN:OE1	9:VD:11:GLN:N	2.47	0.40
9:VD:325:GLU:CD	8:VE:221:ARG:HE	2.29	0.40
9:VH:236:VAL:HG13	9:VH:237:THR:HG23	2.03	0.40
9:VH:248:ALA:HB2	9:VH:350:LYS:HZ2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VK:286:LEU:HD23	8:VK:286:LEU:HA	1.95	0.40
9:VL:267:MET:HA	9:VL:268:PRO:HD3	1.97	0.40
9:VN:284:LEU:H	9:VN:284:LEU:HD23	1.86	0.40
9:WB:375:GLN:NE2	9:WB:419:VAL:HG22	2.37	0.40
8:WC:7:ILE:O	8:WC:138:PHE:N	2.52	0.40
9:WD:125:GLU:HB2	56:XL:45:LEU:HD12	2.03	0.40
9:WD:379:LYS:HB3	9:WD:379:LYS:HE3	1.94	0.40
9:WF:257:MET:HA	9:WF:257:MET:HE2	2.02	0.40
8:WG:121:ARG:HD2	8:WG:121:ARG:HA	1.84	0.40
8:WG:253:THR:O	8:WG:257:THR:OG1	2.27	0.40
9:WH:15:GLN:HB3	9:WH:226:ASN:HD21	1.86	0.40
9:WJ:267:MET:HA	9:WJ:268:PRO:HD3	1.95	0.40
9:WJ:293:MET:HE2	9:WJ:367:PHE:CG	2.57	0.40
9:WJ:326:VAL:HG22	9:WJ:330:MET:SD	2.61	0.40
9:WL:367:PHE:O	9:WL:368:ILE:HD13	2.21	0.40
8:WM:103:TYR:CE2	8:WM:148:GLY:HA2	2.56	0.40
56:XJ:3:LYS:HE2	56:XJ:3:LYS:HB2	1.82	0.40
47:Y:269:MET:SD	47:Y:269:MET:N	2.86	0.40
57:YI:242:ILE:HD12	57:YI:242:ILE:HA	1.94	0.40
57:YK:196:ILE:HD12	57:YK:196:ILE:HA	1.93	0.40
60:g:24:GLY:HA2	60:g:333:CYS:SG	2.62	0.40
62:i:73:VAL:HA	62:i:91:SER:HA	2.02	0.40
62:i:140:VAL:HG21	62:i:210:PRO:HB3	2.03	0.40
63:m:24:ILE:HD12	63:m:25:THR:HB	2.02	0.40
58:q:79:LYS:HE3	58:q:79:LYS:HB3	1.85	0.40
66:v:338:TYR:O	66:v:342:ILE:HG22	2.21	0.40
3:x:236:LEU:HD23	3:x:236:LEU:HA	1.90	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains (i)

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

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

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 451 ligands modelled in this entry, 149 are monoatomic - leaving 302 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	$\#\|Z\| > 2$
69	GDP	ML	501	-	29,30,30	1.13	3 (10%)	45,47,47	2.41	16 (35%)
67	GTP	DF	502	68	33,34,34	0.93	1 (3%)	50,54,54	1.61	9 (18%)
69	GDP	LJ	501	-	29,30,30	1.08	4 (13%)	45,47,47	1.77	6 (13%)
69	GDP	GJ	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
67	GTP	QI	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.55	9 (18%)
69	GDP	GH	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	7 (15%)
67	GTP	WM	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
69	GDP	UB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.71	6 (13%)
67	GTP	FM	501	68	33,34,34	0.88	1 (3%)	50,54,54	1.59	9 (18%)
67	GTP	LG	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.60	8 (16%)
67	GTP	GC	501	68	33,34,34	0.89	1 (3%)	50,54,54	1.60	9 (18%)
69	GDP	QL	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.80	6 (13%)
67	GTP	IM	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.59	9 (18%)
67	GTP	DI	501	68	33,34,34	0.98	1 (3%)	50,54,54	1.64	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
67	GTP	O0	502	68	33,34,34	1.02	2 (6%)	50,54,54	1.62	9 (18%)
69	GDP	SB	501	-	29,30,30	1.13	4 (13%)	45,47,47	1.80	9 (20%)
67	GTP	WI	501	68	33,34,34	0.97	1 (3%)	50,54,54	1.58	9 (18%)
69	GDP	VF	501	-	29,30,30	1.12	2 (6%)	45,47,47	1.74	6 (13%)
67	GTP	MG	501	68	33,34,34	0.90	0	50,54,54	1.46	7 (14%)
67	GTP	KM	501	68	33,34,34	0.90	1 (3%)	50,54,54	1.56	9 (18%)
67	GTP	GI	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.66	9 (18%)
69	GDP	SF	501	-	29,30,30	1.14	4 (13%)	45,47,47	1.71	7 (15%)
69	GDP	UN	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	QH	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.72	6 (13%)
69	GDP	NF	501	-	29,30,30	1.12	2 (6%)	45,47,47	1.77	6 (13%)
69	GDP	DF	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.73	7 (15%)
67	GTP	CB	502	68	33,34,34	0.97	2 (6%)	50,54,54	1.64	11 (22%)
69	GDP	VH	501	-	29,30,30	1.20	3 (10%)	45,47,47	1.78	7 (15%)
69	GDP	OH	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.73	7 (15%)
67	GTP	RI	501	68	33,34,34	0.89	0	50,54,54	1.64	12 (24%)
69	GDP	VN	501	-	29,30,30	1.22	4 (13%)	45,47,47	1.97	8 (17%)
69	GDP	MF	501	-	29,30,30	1.07	2 (6%)	45,47,47	2.11	15 (33%)
69	GDP	CF	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.76	7 (15%)
67	GTP	RG	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.56	9 (18%)
69	GDP	OJ	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.72	7 (15%)
67	GTP	KE	501	68	33,34,34	0.95	1 (3%)	50,54,54	1.61	8 (16%)
67	GTP	BE	501	68	33,34,34	0.91	1 (3%)	50,54,54	1.59	8 (16%)
69	GDP	FD	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	SL	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	UH	501	-	29,30,30	1.13	2 (6%)	45,47,47	1.77	5 (11%)
67	GTP	EG	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.54	9 (18%)
69	GDP	FN	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
67	GTP	BA	501	68	33,34,34	0.96	1 (3%)	50,54,54	1.63	9 (18%)
67	GTP	MC	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.61	9 (18%)
67	GTP	SA	501	68	33,34,34	0.90	1 (3%)	50,54,54	1.62	9 (18%)
67	GTP	HE	501	68	33,34,34	0.91	1 (3%)	50,54,54	1.58	8 (16%)
67	GTP	VI	502	68	33,34,34	0.89	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	BJ	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.78	7 (15%)
69	GDP	DN	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	ED	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
67	GTP	EI	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.62	9 (18%)
67	GTP	JE	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.65	9 (18%)
69	GDP	CH	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.80	8 (17%)
67	GTP	WK	501	68	33,34,34	0.97	1 (3%)	50,54,54	1.63	9 (18%)
69	GDP	PF	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.86	8 (17%)
67	GTP	UM	501	68	33,34,34	0.88	0	50,54,54	1.55	8 (16%)
67	GTP	LE	501	68	33,34,34	0.87	1 (3%)	50,54,54	1.63	9 (18%)
67	GTP	RE	501	-	33,34,34	0.85	1 (3%)	50,54,54	1.63	8 (16%)
69	GDP	LD	501	-	29,30,30	1.09	4 (13%)	45,47,47	1.81	8 (17%)
69	GDP	WH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	6 (13%)
67	GTP	QK	501	68	33,34,34	0.97	1 (3%)	50,54,54	1.60	9 (18%)
69	GDP	HN	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
67	GTP	LC	501	68	33,34,34	0.88	1 (3%)	50,54,54	1.58	8 (16%)
69	GDP	UL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	7 (15%)
69	GDP	RF	501	-	29,30,30	1.12	3 (10%)	45,47,47	1.74	6 (13%)
67	GTP	BC	501	-	33,34,34	0.88	1 (3%)	50,54,54	1.63	9 (18%)
67	GTP	AA	501	68	33,34,34	0.87	1 (3%)	50,54,54	1.60	10 (20%)
67	GTP	QE	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.71	9 (18%)
67	GTP	TK	501	68	33,34,34	0.96	1 (3%)	50,54,54	1.56	8 (16%)
67	GTP	UC	501	68	33,34,34	0.96	2 (6%)	50,54,54	1.59	10 (20%)
69	GDP	SH	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
67	GTP	RA	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.55	8 (16%)
67	GTP	KK	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.58	9 (18%)
67	GTP	SC	501	68	33,34,34	0.87	1 (3%)	50,54,54	1.58	9 (18%)
67	GTP	UI	501	68	33,34,34	0.88	1 (3%)	50,54,54	1.58	9 (18%)
69	GDP	EL	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
67	GTP	GE	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
69	GDP	CJ	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	6 (13%)
69	GDP	DB	501	-	29,30,30	1.13	2 (6%)	45,47,47	1.77	7 (15%)
69	GDP	DH	501	-	29,30,30	1.12	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	EB	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	LB	501	-	29,30,30	1.10	2 (6%)	45,47,47	1.84	7 (15%)
69	GDP	MD	501	-	29,30,30	1.09	2 (6%)	45,47,47	2.10	11 (24%)
69	GDP	OD	501	-	29,30,30	1.14	2 (6%)	45,47,47	1.72	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	RD	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	6 (13%)
69	GDP	IN	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	WN	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.69	7 (15%)
67	GTP	BI	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.59	9 (18%)
67	GTP	CH	502	68	33,34,34	0.84	1 (3%)	50,54,54	1.66	11 (22%)
67	GTP	PD	502	68	33,34,34	1.12	4 (12%)	50,54,54	1.64	8 (16%)
67	GTP	RM	501	-	33,34,34	0.83	1 (3%)	50,54,54	1.56	9 (18%)
67	GTP	WC	501	68	33,34,34	0.94	1 (3%)	50,54,54	1.60	9 (18%)
67	GTP	JC	501	68	33,34,34	0.90	1 (3%)	50,54,54	1.58	10 (20%)
69	GDP	GD	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.72	6 (13%)
69	GDP	KN	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.79	8 (17%)
69	GDP	LL	501	-	29,30,30	1.11	4 (13%)	45,47,47	1.77	6 (13%)
69	GDP	HF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	6 (13%)
69	GDP	IB	501	-	29,30,30	1.23	3 (10%)	45,47,47	1.92	8 (17%)
69	GDP	IL	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.75	6 (13%)
67	GTP	TG	501	68	33,34,34	0.96	1 (3%)	50,54,54	1.71	8 (16%)
69	GDP	DJ	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.69	6 (13%)
67	GTP	CG	501	68	33,34,34	0.90	1 (3%)	50,54,54	1.65	9 (18%)
69	GDP	IH	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
67	GTP	AC	501	68	33,34,34	0.94	1 (3%)	50,54,54	1.61	12 (24%)
69	GDP	QJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.80	9 (20%)
69	GDP	UD	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
67	GTP	PG	501	68	33,34,34	0.98	1 (3%)	50,54,54	1.58	8 (16%)
69	GDP	KL	501	-	29,30,30	1.12	3 (10%)	45,47,47	1.75	6 (13%)
69	GDP	CD	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.73	6 (13%)
69	GDP	IJ	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	6 (13%)
67	GTP	AM	501	68	33,34,34	0.84	1 (3%)	50,54,54	1.57	10 (20%)
67	GTP	SK	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.60	10 (20%)
69	GDP	DD	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.70	6 (13%)
67	GTP	MK	501	68	33,34,34	0.94	1 (3%)	50,54,54	1.62	10 (20%)
69	GDP	WB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
67	GTP	AD	502	68	33,34,34	0.95	1 (3%)	50,54,54	1.64	13 (26%)
69	GDP	HL	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	7 (15%)
69	GDP	TB	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.78	7 (15%)
67	GTP	GG	501	68	33,34,34	0.91	1 (3%)	50,54,54	1.57	10 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	TF	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	6 (13%)
69	GDP	UF	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.77	7 (15%)
67	GTP	FE	501	68	33,34,34	0.89	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	AL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	6 (13%)
69	GDP	JL	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.72	6 (13%)
69	GDP	RJ	501	-	29,30,30	1.27	5 (17%)	45,47,47	1.74	7 (15%)
67	GTP	IE	501	68	33,34,34	0.98	1 (3%)	50,54,54	1.64	10 (20%)
69	GDP	GB	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.73	7 (15%)
69	GDP	QD	501	-	29,30,30	1.20	4 (13%)	45,47,47	1.80	9 (20%)
67	GTP	RB	502	-	33,34,34	0.89	1 (3%)	50,54,54	1.57	8 (16%)
67	GTP	EE	501	-	33,34,34	1.03	3 (9%)	50,54,54	1.70	8 (16%)
67	GTP	MI	501	68	33,34,34	0.92	0	50,54,54	1.85	13 (26%)
69	GDP	RH	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	7 (15%)
67	GTP	HK	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
67	GTP	WG	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.74	12 (24%)
67	GTP	DC	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
67	GTP	PI	501	68	33,34,34	0.86	1 (3%)	50,54,54	1.54	9 (18%)
69	GDP	VL	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.72	6 (13%)
67	GTP	BM	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
67	GTP	SF	502	68	33,34,34	1.05	3 (9%)	50,54,54	1.68	11 (22%)
69	GDP	BH	501	-	29,30,30	1.20	4 (13%)	45,47,47	1.75	7 (15%)
69	GDP	FF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.84	6 (13%)
69	GDP	GF	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	EH	501	-	29,30,30	1.12	3 (10%)	45,47,47	1.75	7 (15%)
67	GTP	QA	501	68	33,34,34	0.99	3 (9%)	50,54,54	1.56	9 (18%)
69	GDP	FB	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	7 (15%)
67	GTP	NF	502	68	33,34,34	1.04	4 (12%)	50,54,54	1.61	9 (18%)
67	GTP	EC	501	68	33,34,34	0.90	1 (3%)	50,54,54	1.67	9 (18%)
69	GDP	LF	501	-	29,30,30	1.09	4 (13%)	45,47,47	1.78	6 (13%)
69	GDP	TH	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.72	6 (13%)
67	GTP	NE	501	68	33,34,34	0.95	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	SJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
67	GTP	KC	501	68	33,34,34	0.88	1 (3%)	50,54,54	1.58	9 (18%)
67	GTP	DK	501	68	33,34,34	1.27	3 (9%)	50,54,54	1.76	12 (24%)
69	GDP	AF	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.73	6 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
67	GTP	HI	501	68	33,34,34	0.90	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	BF	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.71	7 (15%)
67	GTP	OE	501	68	33,34,34	0.84	1 (3%)	50,54,54	1.55	9 (18%)
67	GTP	AK	501	68	33,34,34	1.00	1 (3%)	50,54,54	1.66	11 (22%)
69	GDP	VJ	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.76	7 (15%)
67	GTP	BK	501	68	33,34,34	0.88	1 (3%)	50,54,54	1.58	9 (18%)
67	GTP	TC	501	68	33,34,34	0.96	1 (3%)	50,54,54	1.56	8 (16%)
67	GTP	NK	501	68	33,34,34	1.01	4 (12%)	50,54,54	1.59	9 (18%)
69	GDP	FH	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	PB	501	-	29,30,30	1.10	2 (6%)	45,47,47	2.01	12 (26%)
69	GDP	OF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.93	12 (26%)
67	GTP	UK	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	TJ	501	-	29,30,30	1.12	3 (10%)	45,47,47	1.82	8 (17%)
67	GTP	LK	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.62	11 (22%)
67	GTP	UG	501	68	33,34,34	0.91	1 (3%)	50,54,54	1.57	8 (16%)
69	GDP	NJ	501	-	29,30,30	1.14	2 (6%)	45,47,47	1.80	7 (15%)
67	GTP	DA	501	68	33,34,34	1.04	2 (6%)	50,54,54	1.76	11 (22%)
67	GTP	FC	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.34	6 (12%)
69	GDP	NB	501	-	29,30,30	1.11	2 (6%)	45,47,47	2.14	13 (28%)
69	GDP	BB	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.76	6 (13%)
69	GDP	MJ	501	-	29,30,30	1.11	2 (6%)	45,47,47	1.79	7 (15%)
67	GTP	JG	501	68	33,34,34	0.94	1 (3%)	50,54,54	1.58	8 (16%)
69	GDP	RB	501	-	29,30,30	1.10	3 (10%)	45,47,47	1.77	7 (15%)
67	GTP	SM	501	68	33,34,34	0.91	1 (3%)	50,54,54	1.62	10 (20%)
67	GTP	OK	501	68	33,34,34	0.98	1 (3%)	50,54,54	1.63	8 (16%)
67	GTP	OC	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.56	8 (16%)
67	GTP	HC	501	68	33,34,34	0.99	3 (9%)	50,54,54	1.70	11 (22%)
67	GTP	PK	501	68	33,34,34	0.94	1 (3%)	50,54,54	1.53	8 (16%)
69	GDP	HH	501	-	29,30,30	1.13	2 (6%)	45,47,47	1.74	6 (13%)
67	GTP	KO	501	68	33,34,34	0.89	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	OB	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.71	7 (15%)
67	GTP	LM	501	68	33,34,34	0.89	1 (3%)	50,54,54	1.58	9 (18%)
67	GTP	KI	501	68	33,34,34	0.90	1 (3%)	50,54,54	1.57	8 (16%)
69	GDP	PL	501	-	29,30,30	1.18	4 (13%)	45,47,47	1.77	6 (13%)
67	GTP	CJ	502	68	33,34,34	0.92	1 (3%)	50,54,54	1.61	10 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
67	GTP	EK	501	68	33,34,34	0.91	1 (3%)	50,54,54	1.66	9 (18%)
69	GDP	MB	501	-	29,30,30	1.09	3 (10%)	45,47,47	1.84	8 (17%)
69	GDP	SD	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	DL	501	-	29,30,30	1.19	4 (13%)	45,47,47	1.79	7 (15%)
67	GTP	AG	501	68	33,34,34	0.84	0	50,54,54	1.62	10 (20%)
67	GTP	CA	501	-	33,34,34	0.94	0	50,54,54	1.51	10 (20%)
67	GTP	IN	502	68	33,34,34	0.87	1 (3%)	50,54,54	1.76	13 (26%)
67	GTP	TI	501	68	33,34,34	1.00	2 (6%)	50,54,54	1.56	9 (18%)
67	GTP	VL	502	68	33,34,34	1.14	2 (6%)	50,54,54	1.71	11 (22%)
69	GDP	BD	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.79	8 (17%)
67	GTP	NB	502	68	33,34,34	0.97	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	EJ	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
67	GTP	QM	501	68	33,34,34	0.94	1 (3%)	50,54,54	1.65	9 (18%)
67	GTP	PM	501	68	33,34,34	0.89	1 (3%)	50,54,54	1.62	9 (18%)
67	GTP	SE	501	68	33,34,34	0.85	1 (3%)	50,54,54	1.66	8 (16%)
67	GTP	TM	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.59	8 (16%)
67	GTP	KG	501	68	33,34,34	0.96	1 (3%)	50,54,54	1.59	10 (20%)
67	GTP	WE	501	68	33,34,34	1.04	3 (9%)	50,54,54	1.63	10 (20%)
69	GDP	AB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	UJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	8 (17%)
69	GDP	WD	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.74	6 (13%)
69	GDP	FL	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	7 (15%)
67	GTP	DM	501	68	33,34,34	0.97	2 (6%)	50,54,54	1.65	8 (16%)
69	GDP	TL	501	-	29,30,30	1.11	3 (10%)	45,47,47	1.77	7 (15%)
67	GTP	NI	501	68	33,34,34	0.95	1 (3%)	50,54,54	1.63	9 (18%)
67	GTP	ME	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.57	8 (16%)
69	GDP	EN	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
67	GTP	VK	501	68	33,34,34	0.99	1 (3%)	50,54,54	1.55	9 (18%)
69	GDP	KB	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.78	8 (17%)
69	GDP	ID	501	-	29,30,30	1.13	2 (6%)	45,47,47	1.73	6 (13%)
67	GTP	HL	502	68	33,34,34	1.03	3 (9%)	50,54,54	1.58	10 (20%)
69	GDP	KJ	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
67	GTP	FI	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.62	9 (18%)
69	GDP	KF	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	8 (17%)
69	GDP	LH	501	-	29,30,30	1.08	3 (10%)	45,47,47	2.07	10 (22%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	O0	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	7 (15%)
69	GDP	JN	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	7 (15%)
67	GTP	TE	501	68	33,34,34	0.95	1 (3%)	50,54,54	1.62	8 (16%)
67	GTP	JK	501	-	33,34,34	0.89	1 (3%)	50,54,54	1.56	9 (18%)
69	GDP	WL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	6 (13%)
67	GTP	BG	501	68	33,34,34	0.90	1 (3%)	50,54,54	1.60	9 (18%)
69	GDP	FJ	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
69	GDP	TD	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	HJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	5 (11%)
67	GTP	CD	502	68	33,34,34	0.90	1 (3%)	50,54,54	1.65	11 (22%)
69	GDP	VB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	6 (13%)
69	GDP	VD	501	-	29,30,30	1.17	2 (6%)	45,47,47	1.78	7 (15%)
69	GDP	WF	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	WJ	501	-	29,30,30	1.21	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	PD	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.83	7 (15%)
69	GDP	JH	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.72	6 (13%)
67	GTP	CL	502	68	33,34,34	0.90	1 (3%)	50,54,54	1.55	9 (18%)
67	GTP	IC	501	68	33,34,34	0.92	1 (3%)	50,54,54	1.56	9 (18%)
67	GTP	LI	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.58	9 (18%)
67	GTP	DE	501	68	33,34,34	0.88	1 (3%)	50,54,54	1.55	9 (18%)
67	GTP	SI	501	-	33,34,34	1.00	1 (3%)	50,54,54	1.74	10 (20%)
69	GDP	IF	501	-	29,30,30	1.12	2 (6%)	45,47,47	1.71	7 (15%)
69	GDP	OL	501	-	29,30,30	1.13	2 (6%)	45,47,47	1.73	6 (13%)
67	GTP	JI	501	68	33,34,34	0.87	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	JB	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
69	GDP	NH	501	-	29,30,30	1.08	2 (6%)	45,47,47	2.06	12 (26%)
67	GTP	FG	501	68	33,34,34	1.00	3 (9%)	50,54,54	1.72	8 (16%)
69	GDP	NL	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	QF	501	-	29,30,30	1.20	4 (13%)	45,47,47	1.77	8 (17%)
67	GTP	GM	501	68	33,34,34	0.87	1 (3%)	50,54,54	1.60	10 (20%)
69	GDP	JJ	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.73	7 (15%)
67	GTP	PA	501	68	33,34,34	0.87	1 (3%)	50,54,54	1.60	8 (16%)
67	GTP	PC	501	-	33,34,34	0.94	2 (6%)	50,54,54	1.65	9 (18%)
69	GDP	LN	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.73	6 (13%)
67	GTP	EM	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.57	8 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	JD	501	-	29,30,30	1.13	2 (6%)	45,47,47	1.73	6 (13%)
67	GTP	VE	501	-	33,34,34	0.87	0	50,54,54	1.59	11 (22%)
67	GTP	II	501	68	33,34,34	0.95	1 (3%)	50,54,54	1.56	9 (18%)
67	GTP	IK	501	68	33,34,34	0.91	1 (3%)	50,54,54	1.62	9 (18%)
67	GTP	HN	502	68	33,34,34	0.92	1 (3%)	50,54,54	1.62	12 (24%)
69	GDP	CL	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
67	GTP	RK	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.50	9 (18%)
67	GTP	OH	502	68	33,34,34	0.90	1 (3%)	50,54,54	1.64	11 (22%)
69	GDP	AH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	CB	501	-	29,30,30	1.13	2 (6%)	45,47,47	1.79	7 (15%)
67	GTP	AH	502	68	33,34,34	0.88	0	50,54,54	1.68	11 (22%)
67	GTP	OF	502	68	33,34,34	0.97	2 (6%)	50,54,54	1.72	12 (24%)
69	GDP	QB	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.81	7 (15%)
67	GTP	HG	502	68	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	MH	501	-	29,30,30	1.10	2 (6%)	45,47,47	1.78	6 (13%)
69	GDP	GL	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	6 (13%)
69	GDP	RL	501	-	29,30,30	1.11	3 (10%)	45,47,47	1.81	8 (17%)
67	GTP	FK	501	68	33,34,34	0.91	1 (3%)	50,54,54	1.62	9 (18%)
69	GDP	GN	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	6 (13%)
67	GTP	VG	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.60	8 (16%)
69	GDP	EF	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
67	GTP	GJ	502	68	33,34,34	0.87	1 (3%)	50,54,54	1.63	9 (18%)
67	GTP	MM	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.60	9 (18%)
67	GTP	IG	501	68	33,34,34	0.89	1 (3%)	50,54,54	1.60	10 (20%)
67	GTP	QG	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.65	9 (18%)
69	GDP	HD	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	KH	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	6 (13%)
69	GDP	N0	501	-	29,30,30	1.14	4 (13%)	45,47,47	1.88	9 (20%)
67	GTP	JM	501	68	33,34,34	0.96	1 (3%)	50,54,54	1.55	8 (16%)
67	GTP	UE	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
67	GTP	QC	501	68	33,34,34	0.93	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	KD	501	-	29,30,30	1.12	3 (10%)	45,47,47	1.73	6 (13%)
67	GTP	NA	502	68	33,34,34	0.93	1 (3%)	50,54,54	1.62	10 (20%)
69	GDP	ND	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	6 (13%)
69	GDP	HB	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	AJ	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	PH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
67	GTP	VC	501	68	33,34,34	0.91	1 (3%)	50,54,54	1.60	9 (18%)
69	GDP	BL	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	MN	501	-	29,30,30	1.12	4 (13%)	45,47,47	1.75	6 (13%)
69	GDP	JF	501	-	29,30,30	1.14	2 (6%)	45,47,47	1.74	6 (13%)
69	GDP	PJ	501	-	29,30,30	1.19	4 (13%)	45,47,47	1.90	11 (24%)
69	GDP	AD	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.73	7 (15%)

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
69	GDP	ML	501	-	-	6/16/32/32	0/3/3/3
67	GTP	DF	502	68	-	6/22/38/38	0/3/3/3
69	GDP	LJ	501	-	-	3/16/32/32	0/3/3/3
69	GDP	GJ	501	-	-	4/16/32/32	0/3/3/3
67	GTP	QI	501	-	-	1/22/38/38	0/3/3/3
69	GDP	GH	501	-	-	3/16/32/32	0/3/3/3
67	GTP	WM	501	68	-	3/22/38/38	0/3/3/3
69	GDP	UB	501	-	-	2/16/32/32	0/3/3/3
67	GTP	FM	501	68	-	4/22/38/38	0/3/3/3
67	GTP	LG	501	68	-	9/22/38/38	0/3/3/3
67	GTP	GC	501	68	-	5/22/38/38	0/3/3/3
69	GDP	QL	501	-	-	0/16/32/32	0/3/3/3
67	GTP	IM	501	68	-	3/22/38/38	0/3/3/3
67	GTP	DI	501	68	-	4/22/38/38	0/3/3/3
67	GTP	O0	502	68	-	5/22/38/38	0/3/3/3
69	GDP	SB	501	-	-	5/16/32/32	0/3/3/3
67	GTP	WI	501	68	-	3/22/38/38	0/3/3/3
69	GDP	VF	501	-	-	5/16/32/32	0/3/3/3
67	GTP	MG	501	68	-	5/22/38/38	0/3/3/3
67	GTP	KM	501	68	-	5/22/38/38	0/3/3/3
67	GTP	GI	501	68	-	5/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	SF	501	-	-	3/16/32/32	0/3/3/3
69	GDP	UN	501	-	-	1/16/32/32	0/3/3/3
69	GDP	QH	501	-	-	1/16/32/32	0/3/3/3
69	GDP	NF	501	-	-	2/16/32/32	0/3/3/3
69	GDP	DF	501	-	-	3/16/32/32	0/3/3/3
67	GTP	CB	502	68	-	3/22/38/38	0/3/3/3
69	GDP	VH	501	-	-	2/16/32/32	0/3/3/3
69	GDP	OH	501	-	-	2/16/32/32	0/3/3/3
67	GTP	RI	501	68	-	6/22/38/38	0/3/3/3
69	GDP	VN	501	-	-	1/16/32/32	0/3/3/3
69	GDP	MF	501	-	-	4/16/32/32	0/3/3/3
69	GDP	CF	501	-	-	3/16/32/32	0/3/3/3
67	GTP	RG	501	68	-	2/22/38/38	0/3/3/3
69	GDP	OJ	501	-	-	3/16/32/32	0/3/3/3
67	GTP	KE	501	68	-	4/22/38/38	0/3/3/3
67	GTP	BE	501	68	-	4/22/38/38	0/3/3/3
69	GDP	FD	501	-	-	3/16/32/32	0/3/3/3
69	GDP	SL	501	-	-	2/16/32/32	0/3/3/3
69	GDP	UH	501	-	-	0/16/32/32	0/3/3/3
67	GTP	EG	501	68	-	11/22/38/38	0/3/3/3
69	GDP	FN	501	-	-	2/16/32/32	0/3/3/3
67	GTP	BA	501	68	-	3/22/38/38	0/3/3/3
67	GTP	MC	501	68	-	6/22/38/38	0/3/3/3
67	GTP	SA	501	68	-	5/22/38/38	0/3/3/3
67	GTP	HE	501	68	-	6/22/38/38	0/3/3/3
67	GTP	VI	502	68	-	6/22/38/38	0/3/3/3
69	GDP	BJ	501	-	-	6/16/32/32	0/3/3/3
69	GDP	DN	501	-	-	0/16/32/32	0/3/3/3
69	GDP	ED	501	-	-	4/16/32/32	0/3/3/3
67	GTP	EI	501	68	-	8/22/38/38	0/3/3/3
67	GTP	JE	501	68	-	2/22/38/38	0/3/3/3
69	GDP	CH	501	-	-	6/16/32/32	0/3/3/3
67	GTP	WK	501	68	-	6/22/38/38	0/3/3/3
69	GDP	PF	501	-	-	1/16/32/32	0/3/3/3
67	GTP	UM	501	68	-	3/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
67	GTP	LE	501	68	-	8/22/38/38	0/3/3/3
67	GTP	RE	501	-	-	4/22/38/38	0/3/3/3
69	GDP	LD	501	-	-	4/16/32/32	0/3/3/3
69	GDP	WH	501	-	-	5/16/32/32	0/3/3/3
67	GTP	QK	501	68	-	2/22/38/38	0/3/3/3
69	GDP	HN	501	-	-	3/16/32/32	0/3/3/3
67	GTP	LC	501	68	-	0/22/38/38	0/3/3/3
69	GDP	UL	501	-	-	3/16/32/32	0/3/3/3
69	GDP	RF	501	-	-	1/16/32/32	0/3/3/3
67	GTP	BC	501	-	-	7/22/38/38	0/3/3/3
67	GTP	AA	501	68	-	8/22/38/38	0/3/3/3
67	GTP	QE	501	68	-	3/22/38/38	0/3/3/3
67	GTP	TK	501	68	-	3/22/38/38	0/3/3/3
67	GTP	UC	501	68	-	6/22/38/38	0/3/3/3
69	GDP	SH	501	-	-	0/16/32/32	0/3/3/3
67	GTP	RA	501	68	-	8/22/38/38	0/3/3/3
67	GTP	KK	501	68	-	6/22/38/38	0/3/3/3
67	GTP	SC	501	68	-	6/22/38/38	0/3/3/3
67	GTP	UI	501	68	-	6/22/38/38	0/3/3/3
69	GDP	EL	501	-	-	4/16/32/32	0/3/3/3
67	GTP	GE	501	68	-	5/22/38/38	0/3/3/3
69	GDP	CJ	501	-	-	4/16/32/32	0/3/3/3
69	GDP	DB	501	-	-	4/16/32/32	0/3/3/3
69	GDP	DH	501	-	-	4/16/32/32	0/3/3/3
69	GDP	EB	501	-	-	3/16/32/32	0/3/3/3
69	GDP	LB	501	-	-	3/16/32/32	0/3/3/3
69	GDP	MD	501	-	-	6/16/32/32	0/3/3/3
69	GDP	OD	501	-	-	3/16/32/32	0/3/3/3
69	GDP	RD	501	-	-	3/16/32/32	0/3/3/3
69	GDP	IN	501	-	-	3/16/32/32	0/3/3/3
69	GDP	WN	501	-	-	2/16/32/32	0/3/3/3
67	GTP	BI	501	68	-	8/22/38/38	0/3/3/3
67	GTP	CH	502	68	-	3/22/38/38	0/3/3/3
67	GTP	PD	502	68	-	6/22/38/38	0/3/3/3
67	GTP	RM	501	-	-	5/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
67	GTP	WC	501	68	-	3/22/38/38	0/3/3/3
67	GTP	JC	501	68	-	2/22/38/38	0/3/3/3
69	GDP	GD	501	-	-	2/16/32/32	0/3/3/3
69	GDP	KN	501	-	-	7/16/32/32	0/3/3/3
69	GDP	LL	501	-	-	2/16/32/32	0/3/3/3
69	GDP	HF	501	-	-	4/16/32/32	0/3/3/3
69	GDP	IB	501	-	-	3/16/32/32	0/3/3/3
69	GDP	IL	501	-	-	2/16/32/32	0/3/3/3
67	GTP	TG	501	68	-	5/22/38/38	0/3/3/3
69	GDP	DJ	501	-	-	3/16/32/32	0/3/3/3
67	GTP	CG	501	68	-	5/22/38/38	0/3/3/3
69	GDP	IH	501	-	-	4/16/32/32	0/3/3/3
67	GTP	AC	501	68	-	4/22/38/38	0/3/3/3
69	GDP	QJ	501	-	-	0/16/32/32	0/3/3/3
69	GDP	UD	501	-	-	6/16/32/32	0/3/3/3
67	GTP	PG	501	68	-	2/22/38/38	0/3/3/3
69	GDP	KL	501	-	-	2/16/32/32	0/3/3/3
69	GDP	CD	501	-	-	5/16/32/32	0/3/3/3
69	GDP	IJ	501	-	-	2/16/32/32	0/3/3/3
67	GTP	AM	501	68	-	3/22/38/38	0/3/3/3
67	GTP	SK	501	68	-	4/22/38/38	0/3/3/3
69	GDP	DD	501	-	-	4/16/32/32	0/3/3/3
67	GTP	MK	501	68	-	6/22/38/38	0/3/3/3
69	GDP	WB	501	-	-	1/16/32/32	0/3/3/3
67	GTP	AD	502	68	-	4/22/38/38	0/3/3/3
69	GDP	HL	501	-	-	3/16/32/32	0/3/3/3
69	GDP	TB	501	-	-	4/16/32/32	0/3/3/3
67	GTP	GG	501	68	-	3/22/38/38	0/3/3/3
69	GDP	TF	501	-	-	5/16/32/32	0/3/3/3
69	GDP	UF	501	-	-	1/16/32/32	0/3/3/3
67	GTP	FE	501	68	-	6/22/38/38	0/3/3/3
69	GDP	AL	501	-	-	1/16/32/32	0/3/3/3
69	GDP	JL	501	-	-	4/16/32/32	0/3/3/3
69	GDP	RJ	501	-	-	2/16/32/32	0/3/3/3
67	GTP	IE	501	68	-	3/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	GB	501	-	-	3/16/32/32	0/3/3/3
69	GDP	QD	501	-	-	0/16/32/32	0/3/3/3
67	GTP	RB	502	-	-	3/22/38/38	0/3/3/3
67	GTP	EE	501	-	-	8/22/38/38	0/3/3/3
67	GTP	MI	501	68	-	5/22/38/38	0/3/3/3
69	GDP	RH	501	-	-	1/16/32/32	0/3/3/3
67	GTP	HK	501	68	-	6/22/38/38	0/3/3/3
67	GTP	WG	501	-	-	7/22/38/38	0/3/3/3
67	GTP	DC	501	-	-	8/22/38/38	0/3/3/3
67	GTP	PI	501	68	-	4/22/38/38	0/3/3/3
69	GDP	VL	501	-	-	4/16/32/32	0/3/3/3
67	GTP	BM	501	68	-	7/22/38/38	0/3/3/3
67	GTP	SF	502	68	-	6/22/38/38	0/3/3/3
69	GDP	BH	501	-	-	4/16/32/32	0/3/3/3
69	GDP	FF	501	-	-	4/16/32/32	0/3/3/3
69	GDP	GF	501	-	-	3/16/32/32	0/3/3/3
69	GDP	EH	501	-	-	3/16/32/32	0/3/3/3
67	GTP	QA	501	68	-	4/22/38/38	0/3/3/3
69	GDP	FB	501	-	-	2/16/32/32	0/3/3/3
67	GTP	NF	502	68	-	5/22/38/38	0/3/3/3
67	GTP	EC	501	68	-	8/22/38/38	0/3/3/3
69	GDP	LF	501	-	-	3/16/32/32	0/3/3/3
69	GDP	TH	501	-	-	2/16/32/32	0/3/3/3
67	GTP	NE	501	68	-	2/22/38/38	0/3/3/3
69	GDP	SJ	501	-	-	2/16/32/32	0/3/3/3
67	GTP	KC	501	68	-	5/22/38/38	0/3/3/3
67	GTP	DK	501	68	-	3/22/38/38	0/3/3/3
69	GDP	AF	501	-	-	1/16/32/32	0/3/3/3
67	GTP	HI	501	68	-	6/22/38/38	0/3/3/3
69	GDP	BF	501	-	-	4/16/32/32	0/3/3/3
67	GTP	OE	501	68	-	3/22/38/38	0/3/3/3
67	GTP	AK	501	68	-	4/22/38/38	0/3/3/3
69	GDP	VJ	501	-	-	2/16/32/32	0/3/3/3
67	GTP	BK	501	68	-	4/22/38/38	0/3/3/3
67	GTP	TC	501	68	-	5/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
67	GTP	NK	501	68	-	5/22/38/38	0/3/3/3
69	GDP	FH	501	-	-	3/16/32/32	0/3/3/3
69	GDP	PB	501	-	-	2/16/32/32	0/3/3/3
69	GDP	OF	501	-	-	3/16/32/32	0/3/3/3
67	GTP	UK	501	68	-	3/22/38/38	0/3/3/3
69	GDP	TJ	501	-	-	3/16/32/32	0/3/3/3
67	GTP	LK	501	68	-	6/22/38/38	0/3/3/3
67	GTP	UG	501	68	-	3/22/38/38	0/3/3/3
69	GDP	NJ	501	-	-	3/16/32/32	0/3/3/3
67	GTP	DA	501	68	-	1/22/38/38	0/3/3/3
67	GTP	FC	501	-	-	3/22/38/38	0/3/3/3
69	GDP	NB	501	-	-	2/16/32/32	0/3/3/3
69	GDP	BB	501	-	-	5/16/32/32	0/3/3/3
69	GDP	MJ	501	-	-	6/16/32/32	0/3/3/3
67	GTP	JG	501	68	-	2/22/38/38	0/3/3/3
69	GDP	RB	501	-	-	1/16/32/32	0/3/3/3
67	GTP	SM	501	68	-	7/22/38/38	0/3/3/3
67	GTP	OK	501	68	-	7/22/38/38	0/3/3/3
67	GTP	OC	501	68	-	8/22/38/38	0/3/3/3
67	GTP	HC	501	68	-	5/22/38/38	0/3/3/3
67	GTP	PK	501	68	-	3/22/38/38	0/3/3/3
69	GDP	HH	501	-	-	3/16/32/32	0/3/3/3
67	GTP	KO	501	68	-	6/22/38/38	0/3/3/3
69	GDP	OB	501	-	-	4/16/32/32	0/3/3/3
67	GTP	LM	501	68	-	6/22/38/38	0/3/3/3
67	GTP	KI	501	68	-	10/22/38/38	0/3/3/3
69	GDP	PL	501	-	-	3/16/32/32	0/3/3/3
67	GTP	CJ	502	68	-	6/22/38/38	0/3/3/3
67	GTP	EK	501	68	-	4/22/38/38	0/3/3/3
69	GDP	MB	501	-	-	6/16/32/32	0/3/3/3
69	GDP	SD	501	-	-	5/16/32/32	0/3/3/3
69	GDP	DL	501	-	-	2/16/32/32	0/3/3/3
67	GTP	AG	501	68	-	4/22/38/38	0/3/3/3
67	GTP	CA	501	-	-	2/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
67	GTP	IN	502	68	-	3/22/38/38	0/3/3/3
67	GTP	TI	501	68	-	5/22/38/38	0/3/3/3
67	GTP	VL	502	68	-	5/22/38/38	0/3/3/3
69	GDP	BD	501	-	-	0/16/32/32	0/3/3/3
67	GTP	NB	502	68	-	8/22/38/38	0/3/3/3
69	GDP	EJ	501	-	-	4/16/32/32	0/3/3/3
67	GTP	QM	501	68	-	3/22/38/38	0/3/3/3
67	GTP	PM	501	68	-	1/22/38/38	0/3/3/3
67	GTP	SE	501	68	-	3/22/38/38	0/3/3/3
67	GTP	TM	501	68	-	4/22/38/38	0/3/3/3
67	GTP	KG	501	68	-	5/22/38/38	0/3/3/3
67	GTP	WE	501	68	-	5/22/38/38	0/3/3/3
69	GDP	AB	501	-	-	1/16/32/32	0/3/3/3
69	GDP	UJ	501	-	-	1/16/32/32	0/3/3/3
69	GDP	WD	501	-	-	4/16/32/32	0/3/3/3
69	GDP	FL	501	-	-	3/16/32/32	0/3/3/3
67	GTP	DM	501	68	-	4/22/38/38	0/3/3/3
69	GDP	TL	501	-	-	2/16/32/32	0/3/3/3
67	GTP	NI	501	68	-	6/22/38/38	0/3/3/3
67	GTP	ME	501	68	-	3/22/38/38	0/3/3/3
69	GDP	EN	501	-	-	4/16/32/32	0/3/3/3
67	GTP	VK	501	68	-	8/22/38/38	0/3/3/3
69	GDP	KB	501	-	-	7/16/32/32	0/3/3/3
69	GDP	ID	501	-	-	3/16/32/32	0/3/3/3
67	GTP	HL	502	68	-	4/22/38/38	0/3/3/3
69	GDP	KJ	501	-	-	3/16/32/32	0/3/3/3
67	GTP	FI	501	68	-	4/22/38/38	0/3/3/3
69	GDP	KF	501	-	-	4/16/32/32	0/3/3/3
69	GDP	LH	501	-	-	3/16/32/32	0/3/3/3
69	GDP	O0	501	-	-	5/16/32/32	0/3/3/3
69	GDP	JN	501	-	-	3/16/32/32	0/3/3/3
67	GTP	TE	501	68	-	3/22/38/38	0/3/3/3
67	GTP	JK	501	-	-	3/22/38/38	0/3/3/3
69	GDP	WL	501	-	-	5/16/32/32	0/3/3/3
67	GTP	BG	501	68	-	6/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	FJ	501	-	-	2/16/32/32	0/3/3/3
69	GDP	TD	501	-	-	4/16/32/32	0/3/3/3
69	GDP	HJ	501	-	-	5/16/32/32	0/3/3/3
67	GTP	CD	502	68	-	3/22/38/38	0/3/3/3
69	GDP	VB	501	-	-	2/16/32/32	0/3/3/3
69	GDP	VD	501	-	-	0/16/32/32	0/3/3/3
69	GDP	WF	501	-	-	3/16/32/32	0/3/3/3
69	GDP	WJ	501	-	-	2/16/32/32	0/3/3/3
69	GDP	PD	501	-	-	3/16/32/32	0/3/3/3
69	GDP	JH	501	-	-	6/16/32/32	0/3/3/3
67	GTP	CL	502	68	-	1/22/38/38	0/3/3/3
67	GTP	IC	501	68	-	5/22/38/38	0/3/3/3
67	GTP	LI	501	68	-	8/22/38/38	0/3/3/3
67	GTP	DE	501	68	-	1/22/38/38	0/3/3/3
67	GTP	SI	501	-	-	4/22/38/38	0/3/3/3
69	GDP	IF	501	-	-	1/16/32/32	0/3/3/3
69	GDP	OL	501	-	-	3/16/32/32	0/3/3/3
67	GTP	JI	501	68	-	3/22/38/38	0/3/3/3
69	GDP	JB	501	-	-	5/16/32/32	0/3/3/3
69	GDP	NH	501	-	-	2/16/32/32	0/3/3/3
67	GTP	FG	501	68	-	3/22/38/38	0/3/3/3
69	GDP	NL	501	-	-	2/16/32/32	0/3/3/3
69	GDP	QF	501	-	-	1/16/32/32	0/3/3/3
67	GTP	GM	501	68	-	4/22/38/38	0/3/3/3
69	GDP	JJ	501	-	-	4/16/32/32	0/3/3/3
67	GTP	PA	501	68	-	3/22/38/38	0/3/3/3
67	GTP	PC	501	-	-	5/22/38/38	0/3/3/3
69	GDP	LN	501	-	-	3/16/32/32	0/3/3/3
67	GTP	EM	501	-	-	3/22/38/38	0/3/3/3
69	GDP	JD	501	-	-	4/16/32/32	0/3/3/3
67	GTP	VE	501	-	-	4/22/38/38	0/3/3/3
67	GTP	II	501	68	-	5/22/38/38	0/3/3/3
67	GTP	IK	501	68	-	8/22/38/38	0/3/3/3
67	GTP	HN	502	68	-	4/22/38/38	0/3/3/3
69	GDP	CL	501	-	-	2/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
67	GTP	RK	501	-	-	3/22/38/38	0/3/3/3
67	GTP	OH	502	68	-	5/22/38/38	0/3/3/3
69	GDP	AH	501	-	-	1/16/32/32	0/3/3/3
69	GDP	CB	501	-	-	2/16/32/32	0/3/3/3
67	GTP	AH	502	68	-	2/22/38/38	0/3/3/3
67	GTP	OF	502	68	-	10/22/38/38	0/3/3/3
69	GDP	QB	501	-	-	5/16/32/32	0/3/3/3
67	GTP	HG	502	68	-	2/22/38/38	0/3/3/3
69	GDP	MH	501	-	-	6/16/32/32	0/3/3/3
69	GDP	GL	501	-	-	2/16/32/32	0/3/3/3
69	GDP	RL	501	-	-	2/16/32/32	0/3/3/3
67	GTP	FK	501	68	-	1/22/38/38	0/3/3/3
69	GDP	GN	501	-	-	4/16/32/32	0/3/3/3
67	GTP	VG	501	68	-	6/22/38/38	0/3/3/3
69	GDP	EF	501	-	-	4/16/32/32	0/3/3/3
67	GTP	GJ	502	68	-	8/22/38/38	0/3/3/3
67	GTP	MM	501	68	-	7/22/38/38	0/3/3/3
67	GTP	IG	501	68	-	3/22/38/38	0/3/3/3
67	GTP	QG	501	-	-	2/22/38/38	0/3/3/3
69	GDP	HD	501	-	-	3/16/32/32	0/3/3/3
69	GDP	KH	501	-	-	4/16/32/32	0/3/3/3
69	GDP	N0	501	-	-	2/16/32/32	0/3/3/3
67	GTP	JM	501	68	-	4/22/38/38	0/3/3/3
67	GTP	UE	501	68	-	3/22/38/38	0/3/3/3
67	GTP	QC	501	68	-	5/22/38/38	0/3/3/3
69	GDP	KD	501	-	-	3/16/32/32	0/3/3/3
67	GTP	NA	502	68	-	6/22/38/38	0/3/3/3
69	GDP	ND	501	-	-	3/16/32/32	0/3/3/3
69	GDP	HB	501	-	-	3/16/32/32	0/3/3/3
69	GDP	AJ	501	-	-	2/16/32/32	0/3/3/3
69	GDP	PH	501	-	-	3/16/32/32	0/3/3/3
67	GTP	VC	501	68	-	4/22/38/38	0/3/3/3
69	GDP	BL	501	-	-	4/16/32/32	0/3/3/3
69	GDP	MN	501	-	-	3/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	JF	501	-	-	4/16/32/32	0/3/3/3
69	GDP	PJ	501	-	-	1/16/32/32	0/3/3/3
69	GDP	AD	501	-	-	1/16/32/32	0/3/3/3

All (628) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
67	DK	501	GTP	PA-O3A	4.26	1.64	1.59
67	VL	502	GTP	PB-O3B	4.12	1.64	1.59
67	DK	501	GTP	PB-O3A	3.40	1.63	1.59
69	RJ	501	GDP	C5-C4	3.35	1.48	1.38
69	IB	501	GDP	C5-C4	3.27	1.47	1.38
67	SI	501	GTP	C5-N7	-3.24	1.32	1.39
69	CL	501	GDP	C5-C4	3.17	1.47	1.38
69	TB	501	GDP	C5-C4	3.16	1.47	1.38
69	WJ	501	GDP	C5-C4	3.15	1.47	1.38
69	BB	501	GDP	C5-C4	3.14	1.47	1.38
69	QJ	501	GDP	C5-C4	3.13	1.47	1.38
69	CF	501	GDP	C5-C4	3.13	1.47	1.38
69	HF	501	GDP	C5-C4	3.13	1.47	1.38
69	EF	501	GDP	C5-C4	3.13	1.47	1.38
69	FJ	501	GDP	C5-C4	3.12	1.47	1.38
69	FN	501	GDP	C5-C4	3.12	1.47	1.38
69	HL	501	GDP	C5-C4	3.12	1.47	1.38
69	VB	501	GDP	C5-C4	3.12	1.47	1.38
69	BJ	501	GDP	C5-C4	3.12	1.47	1.38
69	NL	501	GDP	C5-C4	3.12	1.47	1.38
69	HD	501	GDP	C5-C4	3.12	1.47	1.38
69	WB	501	GDP	C5-C4	3.12	1.47	1.38
69	CJ	501	GDP	C5-C4	3.11	1.47	1.38
69	ED	501	GDP	C5-C4	3.11	1.47	1.38
69	UF	501	GDP	C5-C4	3.11	1.47	1.38
69	BL	501	GDP	C5-C4	3.11	1.47	1.38
69	EB	501	GDP	C5-C4	3.11	1.47	1.38
69	O0	501	GDP	C5-C4	3.11	1.47	1.38
69	SD	501	GDP	C5-C4	3.11	1.47	1.38
69	BH	501	GDP	C5-C4	3.10	1.47	1.38
69	PD	501	GDP	C5-C4	3.10	1.47	1.38
69	WF	501	GDP	C5-C4	3.10	1.47	1.38
69	CH	501	GDP	C5-C4	3.10	1.47	1.38
69	RH	501	GDP	C5-C4	3.10	1.47	1.38
69	ND	501	GDP	C5-C4	3.10	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	HN	501	GDP	C5-C4	3.09	1.47	1.38
69	TF	501	GDP	C5-C4	3.09	1.47	1.38
69	UB	501	GDP	C5-C4	3.09	1.47	1.38
69	FF	501	GDP	C5-C4	3.09	1.47	1.38
69	IL	501	GDP	C5-C4	3.09	1.47	1.38
69	QH	501	GDP	C5-C4	3.09	1.47	1.38
69	VJ	501	GDP	C5-C4	3.09	1.47	1.38
69	VD	501	GDP	C5-C4	3.08	1.47	1.38
69	VH	501	GDP	C5-C4	3.08	1.47	1.38
69	IJ	501	GDP	C5-C4	3.08	1.47	1.38
69	OJ	501	GDP	C5-C4	3.08	1.47	1.38
69	AJ	501	GDP	C5-C4	3.08	1.47	1.38
69	WH	501	GDP	C5-C4	3.08	1.47	1.38
69	EH	501	GDP	C5-C4	3.08	1.47	1.38
69	FD	501	GDP	C5-C4	3.08	1.47	1.38
69	RD	501	GDP	C5-C4	3.08	1.47	1.38
69	SL	501	GDP	C5-C4	3.08	1.47	1.38
69	HH	501	GDP	C5-C4	3.08	1.47	1.38
69	SH	501	GDP	C5-C4	3.07	1.47	1.38
69	SJ	501	GDP	C5-C4	3.07	1.47	1.38
69	KJ	501	GDP	C5-C4	3.07	1.47	1.38
69	TH	501	GDP	C5-C4	3.07	1.47	1.38
69	BD	501	GDP	C5-C4	3.07	1.47	1.38
69	JH	501	GDP	C5-C4	3.07	1.47	1.38
69	CD	501	GDP	C5-C4	3.07	1.47	1.38
69	EL	501	GDP	C5-C4	3.07	1.47	1.38
69	ML	501	GDP	C4-N9	-3.07	1.30	1.38
69	PL	501	GDP	C5-C4	3.07	1.47	1.38
69	AH	501	GDP	C5-C4	3.07	1.47	1.38
69	WN	501	GDP	C5-C4	3.07	1.47	1.38
69	VL	501	GDP	C5-C4	3.06	1.47	1.38
69	IN	501	GDP	C5-C4	3.06	1.47	1.38
69	GF	501	GDP	C5-C4	3.06	1.47	1.38
69	MN	501	GDP	C5-C4	3.06	1.47	1.38
69	NJ	501	GDP	C5-C4	3.06	1.47	1.38
69	EJ	501	GDP	C5-C4	3.06	1.47	1.38
69	OH	501	GDP	C5-C4	3.06	1.47	1.38
69	IH	501	GDP	C5-C4	3.06	1.47	1.38
69	QF	501	GDP	C5-C4	3.06	1.47	1.38
69	AB	501	GDP	C5-C4	3.06	1.47	1.38
69	OD	501	GDP	C5-C4	3.06	1.47	1.38
69	DL	501	GDP	C5-C4	3.06	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	WL	501	GDP	C5-C4	3.06	1.47	1.38
69	EN	501	GDP	C5-C4	3.06	1.47	1.38
69	JL	501	GDP	C5-C4	3.06	1.47	1.38
69	WD	501	GDP	C5-C4	3.06	1.47	1.38
69	JD	501	GDP	C5-C4	3.05	1.47	1.38
69	AF	501	GDP	C5-C4	3.05	1.47	1.38
69	KN	501	GDP	C5-C4	3.05	1.47	1.38
69	GJ	501	GDP	C5-C4	3.05	1.47	1.38
69	HB	501	GDP	C5-C4	3.05	1.47	1.38
69	RF	501	GDP	C5-C4	3.05	1.47	1.38
69	FB	501	GDP	C5-C4	3.05	1.47	1.38
69	FL	501	GDP	C5-C4	3.05	1.47	1.38
69	KD	501	GDP	C5-C4	3.05	1.47	1.38
69	JB	501	GDP	C5-C4	3.05	1.47	1.38
69	VN	501	GDP	C5-C4	3.05	1.47	1.38
69	LN	501	GDP	C5-C4	3.05	1.47	1.38
69	GN	501	GDP	C5-C4	3.04	1.47	1.38
69	DF	501	GDP	C5-C4	3.04	1.47	1.38
69	KB	501	GDP	C5-C4	3.04	1.47	1.38
69	UL	501	GDP	C5-C4	3.04	1.47	1.38
69	BF	501	GDP	C5-C4	3.04	1.47	1.38
69	GB	501	GDP	C5-C4	3.04	1.47	1.38
69	AL	501	GDP	C5-C4	3.04	1.47	1.38
69	UJ	501	GDP	C5-C4	3.04	1.47	1.38
69	HJ	501	GDP	C5-C4	3.04	1.47	1.38
69	ID	501	GDP	C5-C4	3.04	1.47	1.38
69	OB	501	GDP	C5-C4	3.04	1.47	1.38
69	AD	501	GDP	C5-C4	3.04	1.47	1.38
69	GD	501	GDP	C5-C4	3.04	1.47	1.38
69	TL	501	GDP	C5-C4	3.03	1.47	1.38
69	UD	501	GDP	C5-C4	3.03	1.47	1.38
69	UH	501	GDP	C5-C4	3.03	1.47	1.38
69	GL	501	GDP	C5-C4	3.03	1.47	1.38
69	NF	501	GDP	C5-C4	3.03	1.47	1.38
69	IF	501	GDP	C5-C4	3.03	1.47	1.38
69	TJ	501	GDP	C5-C4	3.03	1.47	1.38
69	DN	501	GDP	C5-C4	3.02	1.47	1.38
69	JJ	501	GDP	C5-C4	3.02	1.47	1.38
69	GH	501	GDP	C5-C4	3.02	1.47	1.38
69	KH	501	GDP	C5-C4	3.02	1.47	1.38
69	KF	501	GDP	C5-C4	3.01	1.47	1.38
69	TD	501	GDP	C5-C4	3.01	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	UN	501	GDP	C5-C4	3.01	1.47	1.38
69	VF	501	GDP	C5-C4	3.01	1.47	1.38
69	FH	501	GDP	C5-C4	3.01	1.47	1.38
69	JF	501	GDP	C5-C4	3.01	1.47	1.38
69	KL	501	GDP	C5-C4	3.00	1.47	1.38
69	PF	501	GDP	C5-C4	2.99	1.46	1.38
69	OL	501	GDP	C5-C4	2.99	1.46	1.38
69	PH	501	GDP	C5-C4	2.99	1.46	1.38
69	JN	501	GDP	C5-C4	2.99	1.46	1.38
69	DJ	501	GDP	C5-C4	2.98	1.46	1.38
69	RL	501	GDP	C5-C4	2.98	1.46	1.38
67	AK	501	GTP	PB-O3B	2.97	1.62	1.59
69	SF	501	GDP	C5-C4	2.96	1.46	1.38
69	RB	501	GDP	C5-C4	2.95	1.46	1.38
69	CB	501	GDP	C5-C4	2.95	1.46	1.38
69	LL	501	GDP	C5-C4	2.94	1.46	1.38
69	QL	501	GDP	C6-N1	-2.94	1.33	1.38
69	DD	501	GDP	C5-C4	2.93	1.46	1.38
67	WE	501	GTP	PB-O3A	2.92	1.62	1.59
67	PD	502	GTP	PA-O3A	2.91	1.62	1.59
69	DH	501	GDP	C5-C4	2.91	1.46	1.38
69	QD	501	GDP	C5-C4	2.91	1.46	1.38
69	MF	501	GDP	C4-N9	-2.90	1.30	1.38
69	DB	501	GDP	C5-C4	2.90	1.46	1.38
69	QL	501	GDP	C5-C4	2.89	1.46	1.38
69	MJ	501	GDP	C5-C4	2.89	1.46	1.38
69	N0	501	GDP	C5-C4	2.87	1.46	1.38
69	SB	501	GDP	C5-C4	2.87	1.46	1.38
69	LJ	501	GDP	C5-C4	2.86	1.46	1.38
69	LF	501	GDP	C5-C4	2.85	1.46	1.38
69	LB	501	GDP	C5-C4	2.85	1.46	1.38
69	MB	501	GDP	C5-C4	2.84	1.46	1.38
69	RJ	501	GDP	C5-N7	-2.83	1.33	1.39
69	QB	501	GDP	C5-C4	2.82	1.46	1.38
69	PJ	501	GDP	C5-C4	2.82	1.46	1.38
69	OF	501	GDP	C5-C4	2.80	1.46	1.38
69	NB	501	GDP	C4-N9	-2.79	1.30	1.38
69	QB	501	GDP	C6-N1	-2.79	1.33	1.38
69	MH	501	GDP	C5-C4	2.79	1.46	1.38
69	NH	501	GDP	C5-C4	2.77	1.46	1.38
69	MD	501	GDP	C4-N9	-2.77	1.31	1.38
69	QD	501	GDP	C6-N1	-2.77	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
67	OF	502	GTP	PB-O3B	2.77	1.62	1.59
69	LD	501	GDP	C5-C4	2.76	1.46	1.38
69	VH	501	GDP	C6-N1	-2.74	1.33	1.38
67	SF	502	GTP	PB-O3B	2.72	1.62	1.59
67	CB	502	GTP	PB-O3B	2.70	1.62	1.59
69	PB	501	GDP	C5-C4	2.69	1.46	1.38
69	PJ	501	GDP	C6-N1	-2.68	1.33	1.38
69	IB	501	GDP	C6-N1	-2.65	1.33	1.38
67	O0	502	GTP	PB-O3B	2.63	1.62	1.59
69	RJ	501	GDP	C6-N1	-2.63	1.33	1.38
69	QH	501	GDP	C6-N1	-2.63	1.33	1.38
69	MD	501	GDP	C5-C4	2.61	1.45	1.38
69	NB	501	GDP	C5-C4	2.61	1.45	1.38
69	CL	501	GDP	C6-N1	-2.59	1.34	1.38
69	LH	501	GDP	C5-C4	2.59	1.45	1.38
69	WJ	501	GDP	C6-N1	-2.58	1.34	1.38
69	OF	501	GDP	C5-N7	-2.58	1.33	1.39
69	DL	501	GDP	C6-N1	-2.57	1.34	1.38
69	CH	501	GDP	C6-N1	-2.56	1.34	1.38
69	CF	501	GDP	C6-N1	-2.56	1.34	1.38
69	WB	501	GDP	C6-N1	-2.56	1.34	1.38
69	QF	501	GDP	C6-N1	-2.55	1.34	1.38
69	LH	501	GDP	C4-N9	-2.55	1.31	1.38
69	QJ	501	GDP	C6-N1	-2.54	1.34	1.38
69	CJ	501	GDP	C6-N1	-2.54	1.34	1.38
69	KB	501	GDP	C6-N1	-2.54	1.34	1.38
69	PH	501	GDP	C6-N1	-2.54	1.34	1.38
67	SF	502	GTP	C2-N3	2.53	1.39	1.33
67	HC	501	GTP	PB-O3A	2.53	1.62	1.59
69	OF	501	GDP	C4-N9	-2.52	1.31	1.38
67	AC	501	GTP	PB-O3B	2.52	1.62	1.59
69	ED	501	GDP	C6-N1	-2.51	1.34	1.38
69	DB	501	GDP	C6-N1	-2.50	1.34	1.38
69	FN	501	GDP	C6-N1	-2.49	1.34	1.38
69	WD	501	GDP	C6-N1	-2.49	1.34	1.38
69	WL	501	GDP	C6-N1	-2.48	1.34	1.38
69	VL	501	GDP	C6-N1	-2.48	1.34	1.38
69	GJ	501	GDP	C6-N1	-2.48	1.34	1.38
69	WF	501	GDP	C6-N1	-2.48	1.34	1.38
67	HL	502	GTP	PB-O3B	2.48	1.62	1.59
69	PD	501	GDP	C6-N1	-2.48	1.34	1.38
69	CD	501	GDP	C6-N1	-2.47	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	DF	501	GDP	C6-N1	-2.47	1.34	1.38
69	EL	501	GDP	C6-N1	-2.47	1.34	1.38
69	KB	501	GDP	C5-N7	-2.47	1.34	1.39
69	DD	501	GDP	C6-N1	-2.46	1.34	1.38
69	MF	501	GDP	C5-C4	2.46	1.45	1.38
69	WN	501	GDP	C6-N1	-2.46	1.34	1.38
69	UF	501	GDP	C6-N1	-2.46	1.34	1.38
69	BL	501	GDP	C6-N1	-2.45	1.34	1.38
69	BJ	501	GDP	C6-N1	-2.45	1.34	1.38
69	OJ	501	GDP	C6-N1	-2.45	1.34	1.38
69	HL	501	GDP	C6-N1	-2.45	1.34	1.38
69	FB	501	GDP	C6-N1	-2.44	1.34	1.38
69	RH	501	GDP	C6-N1	-2.44	1.34	1.38
69	AF	501	GDP	C6-N1	-2.44	1.34	1.38
69	FL	501	GDP	C6-N1	-2.44	1.34	1.38
69	IJ	501	GDP	C6-N1	-2.44	1.34	1.38
69	BD	501	GDP	C6-N1	-2.44	1.34	1.38
69	FD	501	GDP	C6-N1	-2.44	1.34	1.38
69	O0	501	GDP	C6-N1	-2.44	1.34	1.38
69	UD	501	GDP	C6-N1	-2.43	1.34	1.38
67	WG	501	GTP	C5-N7	-2.43	1.34	1.39
69	FF	501	GDP	C6-N1	-2.43	1.34	1.38
69	EB	501	GDP	C6-N1	-2.43	1.34	1.38
69	BF	501	GDP	C6-N1	-2.43	1.34	1.38
69	HJ	501	GDP	C6-N1	-2.43	1.34	1.38
69	KJ	501	GDP	C6-N1	-2.42	1.34	1.38
69	HB	501	GDP	C6-N1	-2.42	1.34	1.38
69	AH	501	GDP	C6-N1	-2.42	1.34	1.38
69	HF	501	GDP	C6-N1	-2.42	1.34	1.38
69	AJ	501	GDP	C6-N1	-2.42	1.34	1.38
69	VB	501	GDP	C6-N1	-2.42	1.34	1.38
69	EJ	501	GDP	C6-N1	-2.42	1.34	1.38
69	PL	501	GDP	C6-N1	-2.42	1.34	1.38
69	UH	501	GDP	C6-N1	-2.42	1.34	1.38
69	FH	501	GDP	C6-N1	-2.42	1.34	1.38
69	FJ	501	GDP	C6-N1	-2.41	1.34	1.38
69	HD	501	GDP	C6-N1	-2.41	1.34	1.38
69	SH	501	GDP	C6-N1	-2.41	1.34	1.38
69	WH	501	GDP	C6-N1	-2.41	1.34	1.38
69	IN	501	GDP	C6-N1	-2.41	1.34	1.38
69	SL	501	GDP	C6-N1	-2.41	1.34	1.38
69	BB	501	GDP	C6-N1	-2.41	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	SD	501	GDP	C6-N1	-2.41	1.34	1.38
69	VJ	501	GDP	C6-N1	-2.41	1.34	1.38
69	GN	501	GDP	C6-N1	-2.40	1.34	1.38
69	OL	501	GDP	C6-N1	-2.40	1.34	1.38
69	TL	501	GDP	C6-N1	-2.40	1.34	1.38
69	UL	501	GDP	C6-N1	-2.40	1.34	1.38
69	GB	501	GDP	C6-N1	-2.40	1.34	1.38
69	ML	501	GDP	C2-N2	2.40	1.39	1.34
69	KF	501	GDP	C6-N1	-2.40	1.34	1.38
67	EE	501	GTP	C2-N3	2.40	1.39	1.33
69	JB	501	GDP	C6-N1	-2.40	1.34	1.38
69	UB	501	GDP	C6-N1	-2.40	1.34	1.38
69	GF	501	GDP	C6-N1	-2.40	1.34	1.38
69	GL	501	GDP	C6-N1	-2.40	1.34	1.38
69	VD	501	GDP	C6-N1	-2.40	1.34	1.38
69	UJ	501	GDP	C6-N1	-2.39	1.34	1.38
69	EN	501	GDP	C6-N1	-2.39	1.34	1.38
69	JH	501	GDP	C6-N1	-2.39	1.34	1.38
69	AL	501	GDP	C6-N1	-2.39	1.34	1.38
69	JL	501	GDP	C6-N1	-2.39	1.34	1.38
69	AB	501	GDP	C6-N1	-2.39	1.34	1.38
69	IL	501	GDP	C6-N1	-2.39	1.34	1.38
69	RB	501	GDP	C6-N1	-2.39	1.34	1.38
69	SB	501	GDP	C6-N1	-2.39	1.34	1.38
67	AD	502	GTP	PB-O3B	2.39	1.62	1.59
67	PD	502	GTP	PB-O3A	2.39	1.62	1.59
69	ID	501	GDP	C6-N1	-2.39	1.34	1.38
69	DN	501	GDP	C6-N1	-2.38	1.34	1.38
69	EH	501	GDP	C6-N1	-2.38	1.34	1.38
69	AD	501	GDP	C6-N1	-2.38	1.34	1.38
69	UN	501	GDP	C6-N1	-2.38	1.34	1.38
67	DI	501	GTP	C2-N3	2.38	1.38	1.33
69	JF	501	GDP	C6-N1	-2.38	1.34	1.38
69	KN	501	GDP	C6-N1	-2.38	1.34	1.38
69	SJ	501	GDP	C6-N1	-2.38	1.34	1.38
69	KL	501	GDP	C6-N1	-2.38	1.34	1.38
69	DJ	501	GDP	C6-N1	-2.37	1.34	1.38
69	IF	501	GDP	C6-N1	-2.37	1.34	1.38
69	BH	501	GDP	C6-N1	-2.37	1.34	1.38
69	LN	501	GDP	C6-N1	-2.37	1.34	1.38
69	GH	501	GDP	C6-N1	-2.37	1.34	1.38
69	IH	501	GDP	C6-N1	-2.37	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	KD	501	GDP	C6-N1	-2.37	1.34	1.38
69	DH	501	GDP	C6-N1	-2.37	1.34	1.38
69	HN	501	GDP	C6-N1	-2.37	1.34	1.38
69	GD	501	GDP	C6-N1	-2.36	1.34	1.38
69	VN	501	GDP	C6-N1	-2.36	1.34	1.38
69	OD	501	GDP	C6-N1	-2.36	1.34	1.38
69	NJ	501	GDP	C6-N1	-2.36	1.34	1.38
69	OB	501	GDP	C6-N1	-2.36	1.34	1.38
69	OH	501	GDP	C6-N1	-2.36	1.34	1.38
69	NL	501	GDP	C6-N1	-2.36	1.34	1.38
69	EF	501	GDP	C6-N1	-2.35	1.34	1.38
69	RD	501	GDP	C6-N1	-2.35	1.34	1.38
69	JD	501	GDP	C6-N1	-2.35	1.34	1.38
69	RL	501	GDP	C6-N1	-2.35	1.34	1.38
69	TJ	501	GDP	C6-N1	-2.35	1.34	1.38
67	TG	501	GTP	C2-N3	2.34	1.38	1.33
69	VN	501	GDP	PA-O3A	2.34	1.62	1.59
69	VF	501	GDP	C6-N1	-2.34	1.34	1.38
69	HH	501	GDP	C6-N1	-2.34	1.34	1.38
69	TH	501	GDP	C6-N1	-2.34	1.34	1.38
67	EG	501	GTP	C2-N3	2.34	1.38	1.33
69	JN	501	GDP	C6-N1	-2.33	1.34	1.38
69	SF	501	GDP	C6-N1	-2.33	1.34	1.38
69	ND	501	GDP	C6-N1	-2.33	1.34	1.38
67	NF	502	GTP	PB-O3B	2.33	1.62	1.59
69	RF	501	GDP	C6-N1	-2.33	1.34	1.38
67	PD	502	GTP	PB-O3B	2.32	1.62	1.59
69	JJ	501	GDP	C6-N1	-2.32	1.34	1.38
67	DA	501	GTP	C2-N3	2.31	1.38	1.33
69	KH	501	GDP	C6-N1	-2.31	1.34	1.38
67	SF	502	GTP	PA-O3A	2.30	1.62	1.59
69	TD	501	GDP	C6-N1	-2.29	1.34	1.38
67	EC	501	GTP	C2-N3	2.29	1.38	1.33
67	IE	501	GTP	C2-N3	2.28	1.38	1.33
69	PJ	501	GDP	C5-N7	-2.28	1.34	1.39
67	WM	501	GTP	C2-N3	2.27	1.38	1.33
67	EK	501	GTP	C2-N3	2.27	1.38	1.33
69	LB	501	GDP	C4-N9	-2.27	1.32	1.38
69	N0	501	GDP	C6-N1	-2.26	1.34	1.38
67	BA	501	GTP	C2-N3	2.26	1.38	1.33
69	RJ	501	GDP	C8-N9	-2.26	1.32	1.37
67	GE	501	GTP	C2-N3	2.26	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	TF	501	GDP	C6-N1	-2.26	1.34	1.38
67	NI	501	GTP	C2-N3	2.25	1.38	1.33
67	OF	502	GTP	C2-N3	2.25	1.38	1.33
69	TB	501	GDP	C6-N1	-2.25	1.34	1.38
67	NE	501	GTP	C2-N3	2.25	1.38	1.33
69	ML	501	GDP	C5-C4	2.25	1.44	1.38
67	BG	501	GTP	C2-N3	2.25	1.38	1.33
67	NA	502	GTP	C2-N3	2.25	1.38	1.33
69	PF	501	GDP	C6-N1	-2.25	1.34	1.38
67	CD	502	GTP	C2-N3	2.25	1.38	1.33
67	BM	501	GTP	C2-N3	2.25	1.38	1.33
67	LG	501	GTP	C2-N3	2.24	1.38	1.33
67	II	501	GTP	C2-N3	2.24	1.38	1.33
67	HG	502	GTP	C2-N3	2.24	1.38	1.33
67	WK	501	GTP	C2-N3	2.24	1.38	1.33
67	RA	501	GTP	C2-N3	2.23	1.38	1.33
67	NF	502	GTP	C2-N3	2.23	1.38	1.33
67	DK	501	GTP	C2-N3	2.23	1.38	1.33
67	DC	501	GTP	PB-O3A	2.23	1.61	1.59
67	NF	502	GTP	PA-O3A	2.23	1.61	1.59
67	CG	501	GTP	C2-N3	2.23	1.38	1.33
67	PD	502	GTP	C5-N7	-2.22	1.34	1.39
67	NK	501	GTP	C2-N3	2.22	1.38	1.33
69	QF	501	GDP	PA-O3A	2.22	1.61	1.59
67	TM	501	GTP	C2-N3	2.22	1.38	1.33
67	UE	501	GTP	C2-N3	2.22	1.38	1.33
69	PB	501	GDP	C4-N9	-2.22	1.32	1.38
67	BC	501	GTP	C2-N3	2.22	1.38	1.33
67	NK	501	GTP	PA-O3A	2.21	1.61	1.59
69	MH	501	GDP	C4-N9	-2.21	1.32	1.38
67	HL	502	GTP	C2-N3	2.21	1.38	1.33
67	LI	501	GTP	C2-N3	2.21	1.38	1.33
67	PI	501	GTP	C2-N3	2.20	1.38	1.33
67	SM	501	GTP	C2-N3	2.20	1.38	1.33
67	GC	501	GTP	C2-N3	2.20	1.38	1.33
67	HC	501	GTP	C2-N3	2.20	1.38	1.33
67	VK	501	GTP	C2-N3	2.20	1.38	1.33
67	MM	501	GTP	C2-N3	2.20	1.38	1.33
67	NB	502	GTP	C2-N3	2.20	1.38	1.33
67	SE	501	GTP	C2-N3	2.19	1.38	1.33
67	KK	501	GTP	C2-N3	2.19	1.38	1.33
67	SC	501	GTP	C2-N3	2.19	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
67	PC	501	GTP	C2-N3	2.19	1.38	1.33
67	IG	501	GTP	C2-N3	2.19	1.38	1.33
67	RG	501	GTP	C2-N3	2.19	1.38	1.33
67	UC	501	GTP	C2-N3	2.19	1.38	1.33
67	FK	501	GTP	C2-N3	2.19	1.38	1.33
69	CB	501	GDP	C6-N1	-2.19	1.34	1.38
67	O0	502	GTP	C2-N3	2.19	1.38	1.33
69	MJ	501	GDP	C6-N1	-2.18	1.34	1.38
67	ME	501	GTP	C2-N3	2.18	1.38	1.33
67	FG	501	GTP	PB-O3B	2.18	1.61	1.59
67	LE	501	GTP	C2-N3	2.18	1.38	1.33
67	UK	501	GTP	C2-N3	2.18	1.38	1.33
69	WJ	501	GDP	C5-N7	-2.18	1.34	1.39
67	EE	501	GTP	PB-O3A	2.18	1.61	1.59
67	HC	501	GTP	PA-O3A	2.18	1.61	1.59
67	QK	501	GTP	C2-N3	2.18	1.38	1.33
67	GJ	502	GTP	C2-N3	2.18	1.38	1.33
67	CL	502	GTP	C2-N3	2.18	1.38	1.33
67	IC	501	GTP	C2-N3	2.18	1.38	1.33
67	BI	501	GTP	C2-N3	2.17	1.38	1.33
67	EM	501	GTP	C2-N3	2.17	1.38	1.33
69	DJ	501	GDP	C5-N7	-2.17	1.34	1.39
67	CB	502	GTP	C2-N3	2.17	1.38	1.33
67	WE	501	GTP	C2-N3	2.17	1.38	1.33
67	DM	501	GTP	C2-N3	2.17	1.38	1.33
67	GM	501	GTP	C2-N3	2.17	1.38	1.33
67	OK	501	GTP	C2-N3	2.17	1.38	1.33
67	NF	502	GTP	PB-O3A	2.17	1.61	1.59
67	VI	502	GTP	C2-N3	2.17	1.38	1.33
67	QA	501	GTP	C2-N3	2.17	1.38	1.33
69	LL	501	GDP	C6-N1	-2.17	1.34	1.38
67	HN	502	GTP	C2-N3	2.17	1.38	1.33
67	GI	501	GTP	C2-N3	2.16	1.38	1.33
67	RE	501	GTP	C2-N3	2.16	1.38	1.33
67	NK	501	GTP	PB-O3A	2.16	1.61	1.59
67	JE	501	GTP	C2-N3	2.16	1.38	1.33
67	QG	501	GTP	C2-N3	2.16	1.38	1.33
67	FI	501	GTP	C2-N3	2.16	1.38	1.33
67	OC	501	GTP	C2-N3	2.16	1.38	1.33
69	LD	501	GDP	C6-N1	-2.16	1.34	1.38
67	DF	502	GTP	C2-N3	2.16	1.38	1.33
69	SF	501	GDP	C5-N7	-2.16	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
67	IM	501	GTP	C2-N3	2.16	1.38	1.33
67	SK	501	GTP	C2-N3	2.16	1.38	1.33
67	KC	501	GTP	C2-N3	2.15	1.38	1.33
67	GG	501	GTP	C2-N3	2.15	1.38	1.33
67	PK	501	GTP	C2-N3	2.15	1.38	1.33
67	UG	501	GTP	C2-N3	2.15	1.38	1.33
67	WG	501	GTP	C2-N3	2.15	1.38	1.33
67	DC	501	GTP	C2-N3	2.15	1.38	1.33
67	OH	502	GTP	C2-N3	2.15	1.38	1.33
67	EI	501	GTP	C2-N3	2.15	1.38	1.33
67	BE	501	GTP	C2-N3	2.15	1.38	1.33
67	LM	501	GTP	C2-N3	2.15	1.38	1.33
67	VG	501	GTP	C2-N3	2.15	1.38	1.33
67	KE	501	GTP	C2-N3	2.14	1.38	1.33
69	IB	501	GDP	C5-N7	-2.14	1.34	1.39
67	LK	501	GTP	C2-N3	2.14	1.38	1.33
67	LC	501	GTP	C2-N3	2.14	1.38	1.33
67	UI	501	GTP	C2-N3	2.14	1.38	1.33
67	KI	501	GTP	C2-N3	2.14	1.38	1.33
67	WE	501	GTP	PA-O3A	2.14	1.61	1.59
69	FN	501	GDP	C5-N7	-2.14	1.34	1.39
69	RB	501	GDP	C5-N7	-2.14	1.34	1.39
67	JM	501	GTP	C2-N3	2.14	1.38	1.33
67	RK	501	GTP	PB-O3B	2.14	1.61	1.59
69	CL	501	GDP	C5-N7	-2.14	1.34	1.39
69	CF	501	GDP	C5-N7	-2.13	1.34	1.39
67	PG	501	GTP	C2-N3	2.13	1.38	1.33
67	QA	501	GTP	PB-O3B	2.13	1.61	1.59
69	RD	501	GDP	C5-N7	-2.13	1.34	1.39
67	SA	501	GTP	C2-N3	2.13	1.38	1.33
69	BB	501	GDP	PA-O3A	2.13	1.61	1.59
67	OE	501	GTP	C2-N3	2.13	1.38	1.33
67	IN	502	GTP	C2-N3	2.13	1.38	1.33
67	FM	501	GTP	C2-N3	2.13	1.38	1.33
69	EF	501	GDP	C5-N7	-2.13	1.34	1.39
67	QC	501	GTP	C2-N3	2.13	1.38	1.33
67	WC	501	GTP	C2-N3	2.13	1.38	1.33
67	TI	501	GTP	C2-N3	2.13	1.38	1.33
69	QL	501	GDP	C5-N7	-2.12	1.34	1.39
69	TF	501	GDP	C5-N7	-2.12	1.34	1.39
69	SF	501	GDP	C4-N9	-2.12	1.32	1.38
67	HE	501	GTP	C2-N3	2.12	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	MN	501	GDP	C6-N1	-2.12	1.34	1.38
67	FE	501	GTP	C2-N3	2.12	1.38	1.33
67	HK	501	GTP	C2-N3	2.12	1.38	1.33
69	DL	501	GDP	PA-O3A	2.12	1.61	1.59
69	SJ	501	GDP	C5-N7	-2.12	1.34	1.39
69	UF	501	GDP	C5-N7	-2.12	1.34	1.39
67	MK	501	GTP	C2-N3	2.12	1.38	1.33
67	QM	501	GTP	C2-N3	2.12	1.38	1.33
67	CJ	502	GTP	C2-N3	2.12	1.38	1.33
69	LH	501	GDP	C5-N7	-2.12	1.34	1.39
67	JG	501	GTP	C2-N3	2.12	1.38	1.33
67	TE	501	GTP	C2-N3	2.12	1.38	1.33
67	JK	501	GTP	C2-N3	2.11	1.38	1.33
69	PD	501	GDP	C5-N7	-2.11	1.34	1.39
67	QI	501	GTP	C2-N3	2.11	1.38	1.33
69	DL	501	GDP	C5-N7	-2.11	1.34	1.39
69	FF	501	GDP	C5-N7	-2.11	1.34	1.39
69	NF	501	GDP	C6-N1	-2.11	1.34	1.38
69	LJ	501	GDP	C4-N9	-2.11	1.32	1.38
67	WI	501	GTP	C2-N3	2.11	1.38	1.33
69	DH	501	GDP	C5-N7	-2.11	1.34	1.39
67	UC	501	GTP	PB-O3A	2.11	1.61	1.59
67	KO	501	GTP	C2-N3	2.11	1.38	1.33
69	PF	501	GDP	C5-N7	-2.10	1.34	1.39
67	CH	502	GTP	C2-N3	2.10	1.38	1.33
67	HI	501	GTP	C2-N3	2.10	1.38	1.33
69	EJ	501	GDP	C5-N7	-2.10	1.34	1.39
67	JI	501	GTP	C2-N3	2.10	1.38	1.33
69	RH	501	GDP	C5-N7	-2.10	1.34	1.39
67	QE	501	GTP	C2-N3	2.10	1.38	1.33
69	BL	501	GDP	C5-N7	-2.10	1.34	1.39
69	NL	501	GDP	C5-N7	-2.10	1.34	1.39
69	LF	501	GDP	C4-N9	-2.10	1.32	1.38
69	SB	501	GDP	C4-N9	-2.09	1.32	1.38
69	WF	501	GDP	C5-N7	-2.09	1.34	1.39
69	DF	501	GDP	C5-N7	-2.09	1.34	1.39
69	TB	501	GDP	C5-N7	-2.09	1.34	1.39
67	BK	501	GTP	C2-N3	2.09	1.38	1.33
67	AA	501	GTP	C2-N3	2.09	1.38	1.33
69	LD	501	GDP	C5-N7	-2.09	1.34	1.39
69	LD	501	GDP	C4-N9	-2.09	1.32	1.38
67	RB	502	GTP	C2-N3	2.09	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	QH	501	GDP	C5-N7	-2.09	1.34	1.39
67	IK	501	GTP	C2-N3	2.09	1.38	1.33
69	BH	501	GDP	PA-O3A	2.09	1.61	1.59
69	AJ	501	GDP	C5-N7	-2.09	1.34	1.39
69	VH	501	GDP	C5-N7	-2.08	1.34	1.39
67	TK	501	GTP	C2-N3	2.08	1.38	1.33
69	RL	501	GDP	C5-N7	-2.08	1.34	1.39
69	PH	501	GDP	C5-N7	-2.08	1.34	1.39
69	MB	501	GDP	C4-N9	-2.08	1.32	1.38
69	LJ	501	GDP	C6-N1	-2.08	1.35	1.38
69	FD	501	GDP	C5-N7	-2.08	1.34	1.39
69	MB	501	GDP	C6-N1	-2.08	1.35	1.38
69	DD	501	GDP	C5-N7	-2.08	1.34	1.39
69	O0	501	GDP	C5-N7	-2.08	1.34	1.39
69	SB	501	GDP	C5-N7	-2.08	1.34	1.39
69	SD	501	GDP	C5-N7	-2.08	1.34	1.39
69	LF	501	GDP	C6-N1	-2.08	1.35	1.38
67	PA	501	GTP	C2-N3	2.08	1.38	1.33
67	TI	501	GTP	C5-N7	-2.08	1.34	1.39
69	TJ	501	GDP	C5-N7	-2.08	1.34	1.39
69	HF	501	GDP	C5-N7	-2.08	1.34	1.39
69	QD	501	GDP	PA-O3A	2.07	1.61	1.59
69	EB	501	GDP	C5-N7	-2.07	1.34	1.39
69	JJ	501	GDP	C5-N7	-2.07	1.34	1.39
69	N0	501	GDP	C4-N9	-2.07	1.32	1.38
67	TC	501	GTP	C2-N3	2.07	1.38	1.33
67	KM	501	GTP	C2-N3	2.07	1.38	1.33
69	RJ	501	GDP	C4-N9	-2.07	1.32	1.38
69	FL	501	GDP	C5-N7	-2.07	1.34	1.39
69	HJ	501	GDP	C5-N7	-2.07	1.34	1.39
69	JH	501	GDP	C5-N7	-2.07	1.34	1.39
69	QJ	501	GDP	C5-N7	-2.07	1.34	1.39
69	FB	501	GDP	C5-N7	-2.07	1.34	1.39
69	WH	501	GDP	C5-N7	-2.07	1.34	1.39
69	VB	501	GDP	C5-N7	-2.07	1.34	1.39
69	N0	501	GDP	C5-N7	-2.06	1.34	1.39
67	DE	501	GTP	C2-N3	2.06	1.38	1.33
69	WN	501	GDP	C5-N7	-2.06	1.34	1.39
69	JL	501	GDP	C5-N7	-2.06	1.34	1.39
67	RM	501	GTP	C2-N3	2.06	1.38	1.33
69	AH	501	GDP	C5-N7	-2.06	1.34	1.39
69	QF	501	GDP	C5-N7	-2.06	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
67	HL	502	GTP	PB-O3A	2.06	1.61	1.59
69	BJ	501	GDP	C5-N7	-2.06	1.34	1.39
67	MC	501	GTP	C2-N3	2.06	1.38	1.33
69	DN	501	GDP	C5-N7	-2.06	1.34	1.39
69	SL	501	GDP	C5-N7	-2.06	1.34	1.39
69	GD	501	GDP	C5-N7	-2.06	1.34	1.39
69	ED	501	GDP	C5-N7	-2.05	1.35	1.39
69	TH	501	GDP	C5-N7	-2.05	1.35	1.39
69	HL	501	GDP	C5-N7	-2.05	1.35	1.39
69	WB	501	GDP	C5-N7	-2.05	1.35	1.39
69	UJ	501	GDP	C5-N7	-2.05	1.35	1.39
67	DM	501	GTP	C5-N7	-2.05	1.35	1.39
69	BH	501	GDP	C5-N7	-2.05	1.35	1.39
69	FH	501	GDP	C5-N7	-2.05	1.35	1.39
69	GJ	501	GDP	C5-N7	-2.05	1.35	1.39
67	FC	501	GTP	C2-N3	2.05	1.38	1.33
69	UD	501	GDP	C5-N7	-2.05	1.35	1.39
69	HN	501	GDP	C5-N7	-2.05	1.35	1.39
69	KD	501	GDP	C5-N7	-2.05	1.35	1.39
69	NH	501	GDP	C4-N9	-2.05	1.32	1.38
69	MN	501	GDP	C5-N7	-2.05	1.35	1.39
69	AB	501	GDP	C5-N7	-2.04	1.35	1.39
69	LL	501	GDP	C5-N7	-2.04	1.35	1.39
69	EL	501	GDP	C5-N7	-2.04	1.35	1.39
69	KJ	501	GDP	C5-N7	-2.04	1.35	1.39
69	CJ	501	GDP	C5-N7	-2.04	1.35	1.39
69	OJ	501	GDP	C5-N7	-2.04	1.35	1.39
69	GF	501	GDP	C5-N7	-2.04	1.35	1.39
69	HD	501	GDP	C5-N7	-2.04	1.35	1.39
67	KG	501	GTP	C2-N3	2.04	1.38	1.33
69	PL	501	GDP	C5-N7	-2.04	1.35	1.39
69	LF	501	GDP	C5-N7	-2.04	1.35	1.39
69	OH	501	GDP	C5-N7	-2.04	1.35	1.39
69	SH	501	GDP	C5-N7	-2.04	1.35	1.39
69	TL	501	GDP	C5-N7	-2.04	1.35	1.39
67	VL	502	GTP	C2-N3	2.04	1.38	1.33
69	LJ	501	GDP	C5-N7	-2.03	1.35	1.39
67	VC	501	GTP	C2-N3	2.03	1.38	1.33
69	BD	501	GDP	C5-N7	-2.03	1.35	1.39
69	VL	501	GDP	C5-N7	-2.03	1.35	1.39
69	AD	501	GDP	C5-N7	-2.03	1.35	1.39
69	GB	501	GDP	C5-N7	-2.03	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	RF	501	GDP	C5-N7	-2.03	1.35	1.39
67	PM	501	GTP	C2-N3	2.03	1.38	1.33
69	GN	501	GDP	C5-N7	-2.03	1.35	1.39
67	QA	501	GTP	PA-O3A	2.03	1.61	1.59
69	JB	501	GDP	C5-N7	-2.03	1.35	1.39
69	QB	501	GDP	C5-N7	-2.02	1.35	1.39
69	VJ	501	GDP	C5-N7	-2.02	1.35	1.39
67	JC	501	GTP	C2-N3	2.02	1.38	1.33
69	GL	501	GDP	C5-N7	-2.02	1.35	1.39
69	KN	501	GDP	C5-N7	-2.02	1.35	1.39
69	QD	501	GDP	C5-N7	-2.02	1.35	1.39
69	TD	501	GDP	C5-N7	-2.02	1.35	1.39
67	DA	501	GTP	C5-N7	-2.02	1.35	1.39
67	AM	501	GTP	C2-N3	2.02	1.38	1.33
69	KH	501	GDP	C5-N7	-2.02	1.35	1.39
69	KL	501	GDP	C5-N7	-2.02	1.35	1.39
69	IJ	501	GDP	C5-N7	-2.02	1.35	1.39
69	HB	501	GDP	C5-N7	-2.02	1.35	1.39
69	UN	501	GDP	C5-N7	-2.02	1.35	1.39
69	KF	501	GDP	C5-N7	-2.02	1.35	1.39
69	LN	501	GDP	C5-N7	-2.02	1.35	1.39
69	AF	501	GDP	C5-N7	-2.02	1.35	1.39
69	BF	501	GDP	C5-N7	-2.02	1.35	1.39
69	UB	501	GDP	C5-N7	-2.01	1.35	1.39
69	PJ	501	GDP	C4-N9	-2.01	1.32	1.38
69	CD	501	GDP	C5-N7	-2.01	1.35	1.39
69	EN	501	GDP	C5-N7	-2.01	1.35	1.39
67	NK	501	GTP	PB-O3B	2.01	1.61	1.59
67	EE	501	GTP	C5-N7	-2.01	1.35	1.39
69	WL	501	GDP	C5-N7	-2.01	1.35	1.39
69	ND	501	GDP	C5-N7	-2.01	1.35	1.39
69	PL	501	GDP	PA-O3A	2.01	1.61	1.59
69	EH	501	GDP	C5-N7	-2.01	1.35	1.39
69	CH	501	GDP	C5-N7	-2.01	1.35	1.39
69	IH	501	GDP	C5-N7	-2.01	1.35	1.39
69	IN	501	GDP	C5-N7	-2.01	1.35	1.39
69	AL	501	GDP	C5-N7	-2.01	1.35	1.39
69	VN	501	GDP	C5-N7	-2.01	1.35	1.39
69	FJ	501	GDP	C5-N7	-2.00	1.35	1.39
67	FG	501	GTP	C5-N7	-2.00	1.35	1.39
69	UL	501	GDP	C5-N7	-2.00	1.35	1.39
67	FG	501	GTP	C2-N3	2.00	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	JN	501	GDP	C5-N7	-2.00	1.35	1.39
69	GH	501	GDP	C5-N7	-2.00	1.35	1.39
69	MN	501	GDP	C4-N9	-2.00	1.33	1.38
67	PC	501	GTP	C5-N7	-2.00	1.35	1.39
69	LL	501	GDP	C4-N9	-2.00	1.33	1.38

All (2466) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	IB	501	GDP	C5-C4-N3	-6.64	117.82	128.39
69	FF	501	GDP	C5-C4-N3	-6.53	117.99	128.39
69	ML	501	GDP	N2-C2-N1	6.52	130.53	116.76
69	PJ	501	GDP	C5-C4-N3	-6.39	118.22	128.39
69	BJ	501	GDP	C5-C4-N3	-6.28	118.40	128.39
69	PF	501	GDP	C5-C4-N3	-6.26	118.44	128.39
69	BL	501	GDP	C5-C4-N3	-6.25	118.44	128.39
69	WJ	501	GDP	C5-C4-N3	-6.25	118.45	128.39
69	BB	501	GDP	C5-C4-N3	-6.23	118.48	128.39
69	KB	501	GDP	C5-C4-N3	-6.22	118.50	128.39
69	N0	501	GDP	C5-C4-N3	-6.21	118.50	128.39
69	VH	501	GDP	C5-C4-N3	-6.21	118.50	128.39
69	CJ	501	GDP	C5-C4-N3	-6.21	118.51	128.39
69	PD	501	GDP	C5-C4-N3	-6.20	118.52	128.39
69	HL	501	GDP	C5-C4-N3	-6.20	118.52	128.39
69	RJ	501	GDP	C5-C4-N3	-6.16	118.59	128.39
69	HF	501	GDP	C5-C4-N3	-6.15	118.59	128.39
69	ML	501	GDP	C2-N3-C4	6.14	122.88	112.30
69	CH	501	GDP	C5-C4-N3	-6.14	118.62	128.39
69	CF	501	GDP	C5-C4-N3	-6.13	118.63	128.39
69	VB	501	GDP	C5-C4-N3	-6.13	118.63	128.39
69	EJ	501	GDP	C5-C4-N3	-6.13	118.64	128.39
69	FN	501	GDP	C5-C4-N3	-6.12	118.66	128.39
69	QJ	501	GDP	C5-C4-N3	-6.11	118.66	128.39
69	O0	501	GDP	C5-C4-N3	-6.10	118.67	128.39
69	ED	501	GDP	C5-C4-N3	-6.09	118.69	128.39
69	PH	501	GDP	C5-C4-N3	-6.09	118.69	128.39
69	DL	501	GDP	C5-C4-N3	-6.09	118.70	128.39
69	CL	501	GDP	C5-C4-N3	-6.08	118.71	128.39
69	RH	501	GDP	C5-C4-N3	-6.08	118.71	128.39
69	QF	501	GDP	C5-C4-N3	-6.07	118.73	128.39
69	EF	501	GDP	C5-C4-N3	-6.06	118.74	128.39
69	UF	501	GDP	C5-C4-N3	-6.06	118.75	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	NL	501	GDP	C5-C4-N3	-6.05	118.77	128.39
69	WB	501	GDP	C5-C4-N3	-6.04	118.78	128.39
69	HD	501	GDP	C5-C4-N3	-6.04	118.78	128.39
69	QB	501	GDP	C5-C4-N3	-6.03	118.79	128.39
69	EL	501	GDP	C5-C4-N3	-6.03	118.80	128.39
69	AH	501	GDP	C5-C4-N3	-6.02	118.81	128.39
67	FG	501	GTP	C5-C4-N3	-6.02	118.81	128.39
69	NJ	501	GDP	C5-C4-N3	-6.02	118.81	128.39
69	AJ	501	GDP	C5-C4-N3	-6.01	118.82	128.39
69	IJ	501	GDP	C5-C4-N3	-6.01	118.83	128.39
69	BH	501	GDP	C5-C4-N3	-6.01	118.83	128.39
69	FD	501	GDP	C5-C4-N3	-6.00	118.84	128.39
69	GF	501	GDP	C5-C4-N3	-6.00	118.85	128.39
69	QL	501	GDP	C5-C4-N3	-5.99	118.85	128.39
69	FH	501	GDP	C5-C4-N3	-5.99	118.86	128.39
69	SH	501	GDP	C5-C4-N3	-5.99	118.86	128.39
69	WF	501	GDP	C5-C4-N3	-5.99	118.86	128.39
69	NH	501	GDP	C2-N3-C4	5.99	122.62	112.30
69	FJ	501	GDP	C5-C4-N3	-5.99	118.86	128.39
69	FL	501	GDP	C5-C4-N3	-5.99	118.86	128.39
69	TL	501	GDP	C5-C4-N3	-5.98	118.87	128.39
69	WL	501	GDP	C5-C4-N3	-5.98	118.88	128.39
69	WH	501	GDP	C5-C4-N3	-5.97	118.89	128.39
69	RD	501	GDP	C5-C4-N3	-5.97	118.89	128.39
69	UJ	501	GDP	C5-C4-N3	-5.96	118.90	128.39
69	SL	501	GDP	C5-C4-N3	-5.96	118.90	128.39
69	OJ	501	GDP	C5-C4-N3	-5.96	118.90	128.39
69	EN	501	GDP	C5-C4-N3	-5.96	118.91	128.39
69	IL	501	GDP	C5-C4-N3	-5.96	118.91	128.39
69	KD	501	GDP	C5-C4-N3	-5.95	118.92	128.39
69	KJ	501	GDP	C5-C4-N3	-5.95	118.92	128.39
69	RF	501	GDP	C5-C4-N3	-5.95	118.92	128.39
69	VJ	501	GDP	C5-C4-N3	-5.95	118.92	128.39
69	ND	501	GDP	C5-C4-N3	-5.94	118.94	128.39
69	KN	501	GDP	C5-C4-N3	-5.94	118.94	128.39
69	DF	501	GDP	C5-C4-N3	-5.94	118.94	128.39
69	FB	501	GDP	C5-C4-N3	-5.94	118.94	128.39
69	UD	501	GDP	C5-C4-N3	-5.94	118.94	128.39
69	VD	501	GDP	C5-C4-N3	-5.93	118.94	128.39
69	VN	501	GDP	C5-C4-N3	-5.93	118.95	128.39
69	AF	501	GDP	C5-C4-N3	-5.93	118.96	128.39
69	AL	501	GDP	C5-C4-N3	-5.92	118.96	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	LN	501	GDP	C5-C4-N3	-5.92	118.97	128.39
69	AB	501	GDP	C5-C4-N3	-5.92	118.97	128.39
69	CB	501	GDP	C5-C4-N3	-5.92	118.97	128.39
69	SJ	501	GDP	C5-C4-N3	-5.92	118.97	128.39
69	PL	501	GDP	C5-C4-N3	-5.91	118.98	128.39
69	HN	501	GDP	C5-C4-N3	-5.90	118.99	128.39
69	EB	501	GDP	C5-C4-N3	-5.90	118.99	128.39
69	GN	501	GDP	C5-C4-N3	-5.90	119.00	128.39
69	KL	501	GDP	C5-C4-N3	-5.89	119.01	128.39
69	IN	501	GDP	C5-C4-N3	-5.89	119.01	128.39
69	OD	501	GDP	C5-C4-N3	-5.89	119.01	128.39
69	TD	501	GDP	C5-C4-N3	-5.88	119.02	128.39
69	QH	501	GDP	C5-C4-N3	-5.88	119.03	128.39
69	QD	501	GDP	C5-C4-N3	-5.88	119.03	128.39
69	HB	501	GDP	C5-C4-N3	-5.88	119.03	128.39
69	RB	501	GDP	C5-C4-N3	-5.87	119.04	128.39
69	HH	501	GDP	C5-C4-N3	-5.87	119.05	128.39
69	GJ	501	GDP	C5-C4-N3	-5.87	119.05	128.39
69	VL	501	GDP	C5-C4-N3	-5.86	119.06	128.39
69	SD	501	GDP	C5-C4-N3	-5.86	119.06	128.39
69	GL	501	GDP	C5-C4-N3	-5.85	119.08	128.39
69	UL	501	GDP	C5-C4-N3	-5.85	119.08	128.39
69	WN	501	GDP	C5-C4-N3	-5.85	119.08	128.39
69	TB	501	GDP	C5-C4-N3	-5.85	119.08	128.39
67	DA	501	GTP	C5-C4-N3	-5.85	119.08	128.39
69	EH	501	GDP	C5-C4-N3	-5.85	119.08	128.39
69	VF	501	GDP	C5-C4-N3	-5.85	119.09	128.39
69	RL	501	GDP	C5-C4-N3	-5.85	119.09	128.39
69	WD	501	GDP	C5-C4-N3	-5.85	119.09	128.39
69	GH	501	GDP	C5-C4-N3	-5.84	119.09	128.39
69	OF	501	GDP	C5-C4-N3	-5.84	119.10	128.39
69	BF	501	GDP	C5-C4-N3	-5.84	119.10	128.39
69	JJ	501	GDP	C5-C4-N3	-5.83	119.11	128.39
69	AD	501	GDP	C5-C4-N3	-5.83	119.11	128.39
69	JB	501	GDP	C5-C4-N3	-5.83	119.12	128.39
69	UN	501	GDP	C5-C4-N3	-5.82	119.12	128.39
69	TJ	501	GDP	C5-C4-N3	-5.82	119.13	128.39
69	UB	501	GDP	C5-C4-N3	-5.82	119.13	128.39
69	OH	501	GDP	C5-C4-N3	-5.82	119.14	128.39
69	ID	501	GDP	C5-C4-N3	-5.81	119.14	128.39
69	GD	501	GDP	C5-C4-N3	-5.81	119.14	128.39
69	IH	501	GDP	C5-C4-N3	-5.81	119.14	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	HJ	501	GDP	C5-C4-N3	-5.80	119.16	128.39
69	DN	501	GDP	C5-C4-N3	-5.80	119.16	128.39
69	UH	501	GDP	C5-C4-N3	-5.80	119.17	128.39
69	DB	501	GDP	C5-C4-N3	-5.79	119.17	128.39
69	OB	501	GDP	C5-C4-N3	-5.79	119.18	128.39
69	JL	501	GDP	C5-C4-N3	-5.78	119.19	128.39
67	EE	501	GTP	C5-C4-N3	-5.78	119.19	128.39
69	GB	501	GDP	C5-C4-N3	-5.78	119.20	128.39
69	KF	501	GDP	C5-C4-N3	-5.77	119.20	128.39
69	KH	501	GDP	C5-C4-N3	-5.77	119.21	128.39
69	JD	501	GDP	C5-C4-N3	-5.75	119.24	128.39
69	NF	501	GDP	C5-C4-N3	-5.74	119.25	128.39
69	BD	501	GDP	C5-C4-N3	-5.73	119.27	128.39
69	TH	501	GDP	C5-C4-N3	-5.72	119.29	128.39
69	TF	501	GDP	C5-C4-N3	-5.72	119.29	128.39
69	CD	501	GDP	C5-C4-N3	-5.71	119.31	128.39
69	OL	501	GDP	C5-C4-N3	-5.69	119.33	128.39
69	IF	501	GDP	C5-C4-N3	-5.69	119.34	128.39
69	JF	501	GDP	C5-C4-N3	-5.67	119.36	128.39
67	WG	501	GTP	C5-C4-N3	-5.66	119.38	128.39
69	DJ	501	GDP	C5-C4-N3	-5.66	119.38	128.39
69	DD	501	GDP	C5-C4-N3	-5.66	119.39	128.39
69	LL	501	GDP	C5-C4-N3	-5.64	119.42	128.39
69	NH	501	GDP	C5-C4-N3	-5.63	119.42	128.39
67	DK	501	GTP	C5-C4-N3	-5.62	119.44	128.39
69	LH	501	GDP	C2-N3-C4	5.62	121.98	112.30
69	MB	501	GDP	C5-C4-N3	-5.62	119.45	128.39
69	IB	501	GDP	N9-C4-N3	5.61	137.16	125.95
69	JN	501	GDP	C5-C4-N3	-5.61	119.47	128.39
69	DH	501	GDP	C5-C4-N3	-5.60	119.47	128.39
69	JH	501	GDP	C5-C4-N3	-5.60	119.48	128.39
69	MN	501	GDP	C5-C4-N3	-5.57	119.53	128.39
69	NB	501	GDP	C2-N3-C4	5.55	121.86	112.30
69	SB	501	GDP	C5-C4-N3	-5.55	119.56	128.39
69	LF	501	GDP	C5-C4-N3	-5.54	119.57	128.39
69	MJ	501	GDP	C5-C4-N3	-5.53	119.59	128.39
69	LJ	501	GDP	C5-C4-N3	-5.52	119.61	128.39
69	N0	501	GDP	C2-N3-C4	5.49	121.75	112.30
69	SF	501	GDP	C5-C4-N3	-5.47	119.68	128.39
69	ML	501	GDP	C6-C5-N7	5.47	140.24	130.29
67	GI	501	GTP	C5-C4-N3	-5.45	119.72	128.39
69	PB	501	GDP	C5-C4-N3	-5.44	119.73	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	MD	501	GDP	C2-N3-C4	5.42	121.64	112.30
69	PB	501	GDP	C2-N3-C4	5.42	121.64	112.30
69	MB	501	GDP	C2-N3-C4	5.42	121.64	112.30
69	LD	501	GDP	C5-C4-N3	-5.42	119.77	128.39
67	DI	501	GTP	C5-C4-N3	-5.41	119.78	128.39
67	TG	501	GTP	C5-C4-N3	-5.41	119.79	128.39
67	IE	501	GTP	C5-C4-N3	-5.40	119.79	128.39
69	MF	501	GDP	C2-N3-C4	5.39	121.59	112.30
67	EC	501	GTP	C5-C4-N3	-5.39	119.81	128.39
69	PF	501	GDP	C2-N3-C4	5.37	121.55	112.30
69	MH	501	GDP	C5-C4-N3	-5.33	119.91	128.39
69	NJ	501	GDP	C2-N3-C4	5.32	121.47	112.30
69	LB	501	GDP	C2-N3-C4	5.31	121.45	112.30
67	SE	501	GTP	C5-C4-N3	-5.30	119.95	128.39
69	PJ	501	GDP	C2-N3-C4	5.30	121.43	112.30
67	EK	501	GTP	C5-C4-N3	-5.29	119.97	128.39
67	OF	502	GTP	C5-C4-N3	-5.28	119.99	128.39
69	LB	501	GDP	C5-C4-N3	-5.27	120.00	128.39
67	BA	501	GTP	C5-C4-N3	-5.25	120.03	128.39
67	NI	501	GTP	C5-C4-N3	-5.25	120.04	128.39
67	PD	502	GTP	C5-C4-N3	-5.25	120.04	128.39
67	BM	501	GTP	C5-C4-N3	-5.25	120.04	128.39
69	CB	501	GDP	C2-N3-C4	5.24	121.32	112.30
69	NF	501	GDP	C2-N3-C4	5.24	121.32	112.30
67	FG	501	GTP	C2-N3-C4	5.23	121.32	112.30
67	PI	501	GTP	C5-C4-N3	-5.23	120.07	128.39
67	BG	501	GTP	C5-C4-N3	-5.22	120.08	128.39
67	CD	502	GTP	C5-C4-N3	-5.22	120.08	128.39
67	RE	501	GTP	C5-C4-N3	-5.22	120.08	128.39
69	FF	501	GDP	C2-N3-C4	5.21	121.28	112.30
67	CH	502	GTP	C5-C4-N3	-5.21	120.10	128.39
67	KE	501	GTP	C5-C4-N3	-5.21	120.10	128.39
67	DM	501	GTP	C5-C4-N3	-5.20	120.11	128.39
67	CG	501	GTP	C5-C4-N3	-5.19	120.14	128.39
67	LG	501	GTP	C5-C4-N3	-5.18	120.14	128.39
69	LJ	501	GDP	C2-N3-C4	5.18	121.23	112.30
69	LF	501	GDP	C2-N3-C4	5.18	121.22	112.30
67	II	501	GTP	C5-C4-N3	-5.18	120.15	128.39
67	OK	501	GTP	C5-C4-N3	-5.18	120.15	128.39
67	PC	501	GTP	C5-C4-N3	-5.18	120.15	128.39
67	MI	501	GTP	C2-N3-C4	5.18	121.22	112.30
69	LL	501	GDP	C2-N3-C4	5.17	121.21	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	MN	501	GDP	C2-N3-C4	5.17	121.21	112.30
67	JE	501	GTP	C5-C4-N3	-5.17	120.16	128.39
67	HL	502	GTP	C5-C4-N3	-5.16	120.17	128.39
67	CB	502	GTP	C5-C4-N3	-5.16	120.18	128.39
69	PD	501	GDP	C2-N3-C4	5.16	121.18	112.30
67	WC	501	GTP	C5-C4-N3	-5.15	120.19	128.39
67	NK	501	GTP	C5-C4-N3	-5.15	120.20	128.39
69	MJ	501	GDP	C2-N3-C4	5.15	121.16	112.30
67	NA	502	GTP	C5-C4-N3	-5.14	120.20	128.39
67	SI	501	GTP	C5-C4-N3	-5.14	120.20	128.39
67	HG	502	GTP	C5-C4-N3	-5.14	120.21	128.39
67	IM	501	GTP	C5-C4-N3	-5.13	120.22	128.39
67	NE	501	GTP	C5-C4-N3	-5.13	120.23	128.39
67	CL	502	GTP	C5-C4-N3	-5.12	120.25	128.39
67	GE	501	GTP	C5-C4-N3	-5.12	120.25	128.39
67	WK	501	GTP	C5-C4-N3	-5.11	120.25	128.39
67	PK	501	GTP	C5-C4-N3	-5.11	120.26	128.39
67	NF	502	GTP	C5-C4-N3	-5.11	120.26	128.39
69	BL	501	GDP	C2-N3-C4	5.10	121.09	112.30
67	RA	501	GTP	C5-C4-N3	-5.10	120.27	128.39
67	NB	502	GTP	C5-C4-N3	-5.10	120.27	128.39
67	WM	501	GTP	C5-C4-N3	-5.10	120.27	128.39
69	ND	501	GDP	C2-N3-C4	5.10	121.08	112.30
69	BB	501	GDP	C2-N3-C4	5.10	121.08	112.30
67	HC	501	GTP	C5-C4-N3	-5.10	120.28	128.39
67	KC	501	GTP	C5-C4-N3	-5.09	120.29	128.39
67	LE	501	GTP	C5-C4-N3	-5.08	120.30	128.39
69	LH	501	GDP	C5-C4-N3	-5.08	120.30	128.39
69	BJ	501	GDP	C2-N3-C4	5.08	121.05	112.30
69	DB	501	GDP	C2-N3-C4	5.08	121.05	112.30
69	MH	501	GDP	C2-N3-C4	5.08	121.05	112.30
67	FI	501	GTP	C5-C4-N3	-5.08	120.31	128.39
69	VB	501	GDP	C2-N3-C4	5.08	121.04	112.30
67	UE	501	GTP	C5-C4-N3	-5.08	120.31	128.39
67	SF	502	GTP	C2-N3-C4	5.07	121.03	112.30
67	DF	502	GTP	C5-C4-N3	-5.07	120.33	128.39
69	VD	501	GDP	C2-N3-C4	5.07	121.03	112.30
67	GJ	502	GTP	C5-C4-N3	-5.06	120.33	128.39
69	UL	501	GDP	C2-N3-C4	5.06	121.01	112.30
67	WI	501	GTP	C5-C4-N3	-5.06	120.34	128.39
69	LD	501	GDP	C2-N3-C4	5.06	121.01	112.30
67	CJ	502	GTP	C5-C4-N3	-5.05	120.34	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	HF	501	GDP	C2-N3-C4	5.05	121.00	112.30
69	O0	501	GDP	C2-N3-C4	5.05	121.00	112.30
69	PL	501	GDP	C2-N3-C4	5.05	121.00	112.30
67	IG	501	GTP	C5-C4-N3	-5.05	120.35	128.39
69	TB	501	GDP	C2-N3-C4	5.05	121.00	112.30
67	TM	501	GTP	C5-C4-N3	-5.05	120.36	128.39
69	HL	501	GDP	C2-N3-C4	5.05	120.99	112.30
67	BI	501	GTP	C5-C4-N3	-5.05	120.36	128.39
69	BH	501	GDP	C2-N3-C4	5.05	120.99	112.30
69	FD	501	GDP	C2-N3-C4	5.04	120.99	112.30
69	FN	501	GDP	C2-N3-C4	5.04	120.99	112.30
69	GF	501	GDP	C2-N3-C4	5.04	120.98	112.30
69	AH	501	GDP	C2-N3-C4	5.04	120.98	112.30
69	TD	501	GDP	C2-N3-C4	5.04	120.98	112.30
69	NL	501	GDP	C2-N3-C4	5.04	120.98	112.30
69	SJ	501	GDP	C2-N3-C4	5.04	120.98	112.30
69	UH	501	GDP	C2-N3-C4	5.04	120.97	112.30
69	KN	501	GDP	C2-N3-C4	5.03	120.97	112.30
69	VN	501	GDP	C2-N3-C4	5.03	120.97	112.30
69	IB	501	GDP	C2-N3-C4	5.03	120.97	112.30
69	IJ	501	GDP	C2-N3-C4	5.03	120.97	112.30
69	AJ	501	GDP	C2-N3-C4	5.03	120.97	112.30
69	EJ	501	GDP	C2-N3-C4	5.03	120.96	112.30
67	BC	501	GTP	C5-C4-N3	-5.03	120.39	128.39
67	EG	501	GTP	C5-C4-N3	-5.03	120.39	128.39
69	VJ	501	GDP	C2-N3-C4	5.03	120.96	112.30
67	BE	501	GTP	C5-C4-N3	-5.02	120.39	128.39
69	AB	501	GDP	C2-N3-C4	5.02	120.95	112.30
67	O0	502	GTP	C5-C4-N3	-5.02	120.40	128.39
69	KD	501	GDP	C2-N3-C4	5.01	120.93	112.30
69	HD	501	GDP	C2-N3-C4	5.01	120.93	112.30
69	IL	501	GDP	C2-N3-C4	5.01	120.93	112.30
69	KL	501	GDP	C2-N3-C4	5.01	120.93	112.30
69	HH	501	GDP	C2-N3-C4	5.01	120.92	112.30
69	HN	501	GDP	C2-N3-C4	5.01	120.92	112.30
69	SH	501	GDP	C2-N3-C4	5.00	120.92	112.30
67	LI	501	GTP	C5-C4-N3	-5.00	120.43	128.39
67	VI	502	GTP	C5-C4-N3	-5.00	120.43	128.39
69	RB	501	GDP	C2-N3-C4	5.00	120.92	112.30
69	WL	501	GDP	C2-N3-C4	5.00	120.92	112.30
69	AL	501	GDP	C2-N3-C4	5.00	120.92	112.30
67	LM	501	GTP	C5-C4-N3	-5.00	120.43	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	SM	501	GTP	C5-C4-N3	-5.00	120.43	128.39
69	EL	501	GDP	C2-N3-C4	5.00	120.91	112.30
69	EF	501	GDP	C2-N3-C4	5.00	120.91	112.30
69	EN	501	GDP	C2-N3-C4	5.00	120.91	112.30
67	GC	501	GTP	C5-C4-N3	-5.00	120.44	128.39
69	FB	501	GDP	C2-N3-C4	5.00	120.91	112.30
69	GL	501	GDP	C2-N3-C4	5.00	120.91	112.30
69	TL	501	GDP	C2-N3-C4	5.00	120.91	112.30
67	DC	501	GTP	C5-C4-N3	-5.00	120.44	128.39
69	KJ	501	GDP	C2-N3-C4	5.00	120.91	112.30
69	VH	501	GDP	C2-N3-C4	5.00	120.90	112.30
69	GN	501	GDP	C2-N3-C4	4.99	120.90	112.30
67	QE	501	GTP	C5-C4-N3	-4.99	120.44	128.39
69	PH	501	GDP	C2-N3-C4	4.99	120.90	112.30
69	VF	501	GDP	C2-N3-C4	4.99	120.90	112.30
69	LN	501	GDP	C2-N3-C4	4.99	120.90	112.30
67	PG	501	GTP	C5-C4-N3	-4.99	120.45	128.39
67	SF	502	GTP	C5-C4-N3	-4.99	120.45	128.39
67	KK	501	GTP	C5-C4-N3	-4.99	120.45	128.39
69	SL	501	GDP	C2-N3-C4	4.99	120.89	112.30
69	GD	501	GDP	C2-N3-C4	4.98	120.88	112.30
69	WH	501	GDP	C2-N3-C4	4.98	120.88	112.30
69	QL	501	GDP	N9-C4-N3	4.98	135.91	125.95
69	IH	501	GDP	C2-N3-C4	4.97	120.86	112.30
69	UJ	501	GDP	C2-N3-C4	4.97	120.86	112.30
69	FJ	501	GDP	C2-N3-C4	4.97	120.86	112.30
69	FL	501	GDP	C2-N3-C4	4.97	120.86	112.30
69	TF	501	GDP	C2-N3-C4	4.97	120.86	112.30
67	GM	501	GTP	C5-C4-N3	-4.97	120.48	128.39
69	CF	501	GDP	C2-N3-C4	4.97	120.86	112.30
67	FK	501	GTP	C5-C4-N3	-4.97	120.48	128.39
69	OJ	501	GDP	C2-N3-C4	4.97	120.86	112.30
69	UF	501	GDP	C2-N3-C4	4.97	120.86	112.30
69	EB	501	GDP	C2-N3-C4	4.97	120.85	112.30
67	WE	501	GTP	C5-C4-N3	-4.97	120.49	128.39
69	ML	501	GDP	N2-C2-N3	-4.97	109.98	119.67
67	VK	501	GTP	C5-C4-N3	-4.97	120.49	128.39
69	OD	501	GDP	C2-N3-C4	4.96	120.85	112.30
67	EM	501	GTP	C5-C4-N3	-4.96	120.49	128.39
69	MD	501	GDP	C5-C4-N3	-4.96	120.49	128.39
69	GH	501	GDP	C2-N3-C4	4.96	120.85	112.30
67	JI	501	GTP	C5-C4-N3	-4.96	120.49	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	UD	501	GDP	C2-N3-C4	4.96	120.85	112.30
69	UN	501	GDP	C2-N3-C4	4.96	120.85	112.30
69	QL	501	GDP	C2-N3-C4	4.96	120.84	112.30
67	UC	501	GTP	C5-C4-N3	-4.96	120.50	128.39
69	AF	501	GDP	C2-N3-C4	4.96	120.84	112.30
69	KH	501	GDP	C2-N3-C4	4.96	120.84	112.30
69	RH	501	GDP	C2-N3-C4	4.96	120.84	112.30
67	IN	502	GTP	C5-C4-N3	-4.96	120.50	128.39
67	OC	501	GTP	C5-C4-N3	-4.96	120.50	128.39
69	CJ	501	GDP	C2-N3-C4	4.96	120.84	112.30
69	JD	501	GDP	C2-N3-C4	4.96	120.84	112.30
67	IC	501	GTP	C5-C4-N3	-4.96	120.50	128.39
67	QM	501	GTP	C5-C4-N3	-4.96	120.50	128.39
69	FH	501	GDP	C2-N3-C4	4.96	120.84	112.30
69	WJ	501	GDP	C2-N3-C4	4.96	120.83	112.30
69	AD	501	GDP	C2-N3-C4	4.95	120.83	112.30
69	MF	501	GDP	C6-C5-N7	4.95	139.30	130.29
67	VG	501	GTP	C5-C4-N3	-4.95	120.51	128.39
67	MM	501	GTP	C5-C4-N3	-4.95	120.51	128.39
69	ED	501	GDP	C2-N3-C4	4.95	120.83	112.30
67	HN	502	GTP	C5-C4-N3	-4.95	120.52	128.39
69	ID	501	GDP	C2-N3-C4	4.95	120.82	112.30
69	OH	501	GDP	C2-N3-C4	4.95	120.82	112.30
69	JJ	501	GDP	C2-N3-C4	4.95	120.82	112.30
67	MI	501	GTP	N2-C2-N1	4.94	127.20	116.76
69	UB	501	GDP	C2-N3-C4	4.94	120.82	112.30
69	OB	501	GDP	C2-N3-C4	4.94	120.81	112.30
69	NB	501	GDP	N2-C2-N1	4.94	127.19	116.76
69	WB	501	GDP	C2-N3-C4	4.94	120.81	112.30
69	IN	501	GDP	C2-N3-C4	4.94	120.81	112.30
69	KF	501	GDP	C2-N3-C4	4.94	120.81	112.30
67	SC	501	GTP	C5-C4-N3	-4.94	120.53	128.39
67	VC	501	GTP	C5-C4-N3	-4.94	120.53	128.39
69	GB	501	GDP	C2-N3-C4	4.94	120.80	112.30
67	JG	501	GTP	C5-C4-N3	-4.93	120.54	128.39
69	QB	501	GDP	C2-N3-C4	4.93	120.80	112.30
67	ME	501	GTP	C5-C4-N3	-4.93	120.54	128.39
67	SA	501	GTP	C5-C4-N3	-4.93	120.54	128.39
67	IK	501	GTP	C5-C4-N3	-4.93	120.54	128.39
69	HJ	501	GDP	C2-N3-C4	4.93	120.79	112.30
67	TG	501	GTP	C2-N3-C4	4.93	120.79	112.30
67	DE	501	GTP	C5-C4-N3	-4.93	120.55	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	JB	501	GDP	C2-N3-C4	4.93	120.79	112.30
67	OE	501	GTP	C5-C4-N3	-4.93	120.55	128.39
67	QA	501	GTP	C5-C4-N3	-4.92	120.55	128.39
69	EH	501	GDP	C2-N3-C4	4.92	120.78	112.30
67	JK	501	GTP	C5-C4-N3	-4.92	120.55	128.39
67	VL	502	GTP	C5-C4-N3	-4.92	120.56	128.39
67	QI	501	GTP	C5-C4-N3	-4.92	120.56	128.39
69	HB	501	GDP	C2-N3-C4	4.92	120.77	112.30
67	UK	501	GTP	C5-C4-N3	-4.92	120.56	128.39
69	SD	501	GDP	C2-N3-C4	4.92	120.77	112.30
69	TJ	501	GDP	C2-N3-C4	4.92	120.77	112.30
69	DN	501	GDP	C2-N3-C4	4.91	120.77	112.30
69	RF	501	GDP	C2-N3-C4	4.91	120.77	112.30
69	VL	501	GDP	C2-N3-C4	4.91	120.77	112.30
69	WF	501	GDP	C2-N3-C4	4.91	120.76	112.30
69	JN	501	GDP	C2-N3-C4	4.91	120.76	112.30
67	KI	501	GTP	C5-C4-N3	-4.91	120.57	128.39
69	IF	501	GDP	C2-N3-C4	4.91	120.76	112.30
69	CH	501	GDP	C2-N3-C4	4.91	120.76	112.30
69	OL	501	GDP	C2-N3-C4	4.91	120.76	112.30
67	HI	501	GTP	C5-C4-N3	-4.91	120.57	128.39
67	AD	502	GTP	C2-N3-C4	4.91	120.75	112.30
69	RD	501	GDP	C2-N3-C4	4.91	120.75	112.30
69	QD	501	GDP	C2-N3-C4	4.90	120.75	112.30
69	GJ	501	GDP	C2-N3-C4	4.90	120.74	112.30
67	AG	501	GTP	C2-N3-C4	4.90	120.74	112.30
67	LC	501	GTP	C5-C4-N3	-4.90	120.59	128.39
67	HE	501	GTP	C5-C4-N3	-4.90	120.60	128.39
67	JM	501	GTP	C5-C4-N3	-4.90	120.60	128.39
67	LK	501	GTP	C5-C4-N3	-4.89	120.60	128.39
69	WD	501	GDP	C2-N3-C4	4.89	120.73	112.30
69	RL	501	GDP	C2-N3-C4	4.89	120.73	112.30
69	DL	501	GDP	C2-N3-C4	4.89	120.72	112.30
69	QF	501	GDP	C2-N3-C4	4.89	120.72	112.30
69	BF	501	GDP	C2-N3-C4	4.89	120.72	112.30
67	SK	501	GTP	C5-C4-N3	-4.88	120.62	128.39
67	BK	501	GTP	C5-C4-N3	-4.88	120.62	128.39
67	GG	501	GTP	C5-C4-N3	-4.88	120.62	128.39
69	SF	501	GDP	C2-N3-C4	4.88	120.71	112.30
67	UG	501	GTP	C5-C4-N3	-4.88	120.62	128.39
69	CL	501	GDP	C2-N3-C4	4.88	120.70	112.30
69	JF	501	GDP	C2-N3-C4	4.88	120.70	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	RG	501	GTP	C5-C4-N3	-4.88	120.63	128.39
69	JL	501	GDP	C2-N3-C4	4.87	120.69	112.30
69	KB	501	GDP	C2-N3-C4	4.87	120.69	112.30
69	BD	501	GDP	C2-N3-C4	4.87	120.69	112.30
69	QJ	501	GDP	C2-N3-C4	4.87	120.69	112.30
67	OH	502	GTP	C5-C4-N3	-4.87	120.64	128.39
67	EI	501	GTP	C5-C4-N3	-4.86	120.65	128.39
67	CH	502	GTP	C2-N3-C4	4.86	120.67	112.30
67	JC	501	GTP	C2-N3-C4	4.86	120.67	112.30
67	CA	501	GTP	C5-C4-N3	-4.86	120.66	128.39
67	UI	501	GTP	C5-C4-N3	-4.86	120.66	128.39
69	DF	501	GDP	C2-N3-C4	4.86	120.67	112.30
67	QC	501	GTP	C5-C4-N3	-4.86	120.66	128.39
69	TH	501	GDP	C2-N3-C4	4.85	120.66	112.30
69	OF	501	GDP	C2-N3-C4	4.85	120.66	112.30
67	QG	501	GTP	C5-C4-N3	-4.85	120.67	128.39
69	JH	501	GDP	C2-N3-C4	4.85	120.66	112.30
67	JC	501	GTP	C5-C4-N3	-4.85	120.67	128.39
67	WC	501	GTP	C2-N3-C4	4.85	120.65	112.30
67	PM	501	GTP	C5-C4-N3	-4.85	120.67	128.39
69	NB	501	GDP	C5-C4-N3	-4.85	120.67	128.39
69	SB	501	GDP	C2-N3-C4	4.84	120.64	112.30
69	WN	501	GDP	C2-N3-C4	4.84	120.64	112.30
69	MD	501	GDP	N2-C2-N1	4.84	126.98	116.76
67	TE	501	GTP	C5-C4-N3	-4.84	120.69	128.39
67	FM	501	GTP	C5-C4-N3	-4.84	120.69	128.39
67	GI	501	GTP	C2-N3-C4	4.84	120.63	112.30
67	MK	501	GTP	C5-C4-N3	-4.84	120.69	128.39
69	QB	501	GDP	N9-C4-N3	4.83	135.62	125.95
67	AH	502	GTP	C2-N3-C4	4.83	120.62	112.30
67	RE	501	GTP	C2-N3-C4	4.83	120.61	112.30
69	DH	501	GDP	C2-N3-C4	4.83	120.61	112.30
67	DA	501	GTP	C2-N3-C4	4.82	120.61	112.30
69	FF	501	GDP	N9-C4-N3	4.82	135.60	125.95
69	NB	501	GDP	C6-C5-N7	4.82	139.06	130.29
67	QK	501	GTP	C5-C4-N3	-4.82	120.72	128.39
69	DD	501	GDP	C2-N3-C4	4.81	120.59	112.30
67	HK	501	GTP	C5-C4-N3	-4.81	120.73	128.39
67	MC	501	GTP	C5-C4-N3	-4.81	120.73	128.39
67	AK	501	GTP	C2-N3-C4	4.81	120.59	112.30
67	OK	501	GTP	C2-N3-C4	4.81	120.59	112.30
69	DJ	501	GDP	C2-N3-C4	4.81	120.58	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	PA	501	GTP	C5-C4-N3	-4.81	120.74	128.39
69	CD	501	GDP	C2-N3-C4	4.80	120.57	112.30
67	FE	501	GTP	C5-C4-N3	-4.80	120.76	128.39
67	WI	501	GTP	C2-N3-C4	4.79	120.55	112.30
67	KE	501	GTP	C2-N3-C4	4.79	120.54	112.30
67	TI	501	GTP	C5-C4-N3	-4.78	120.78	128.39
67	BE	501	GTP	C2-N3-C4	4.77	120.51	112.30
69	DL	501	GDP	N9-C4-N3	4.77	135.49	125.95
69	CL	501	GDP	N9-C4-N3	4.76	135.48	125.95
67	JE	501	GTP	C2-N3-C4	4.76	120.50	112.30
67	KM	501	GTP	C5-C4-N3	-4.76	120.81	128.39
69	WJ	501	GDP	N9-C4-N3	4.76	135.47	125.95
67	TE	501	GTP	C2-N3-C4	4.75	120.48	112.30
67	WK	501	GTP	C2-N3-C4	4.75	120.48	112.30
67	NK	501	GTP	C2-N3-C4	4.74	120.47	112.30
67	TC	501	GTP	C5-C4-N3	-4.74	120.84	128.39
67	EE	501	GTP	C2-N3-C4	4.74	120.47	112.30
67	KO	501	GTP	C5-C4-N3	-4.74	120.85	128.39
67	FI	501	GTP	C2-N3-C4	4.74	120.46	112.30
67	BG	501	GTP	C2-N3-C4	4.73	120.45	112.30
67	GJ	502	GTP	C2-N3-C4	4.73	120.45	112.30
69	LH	501	GDP	N2-C2-N1	4.73	126.74	116.76
67	EK	501	GTP	C2-N3-C4	4.73	120.44	112.30
67	RM	501	GTP	C5-C4-N3	-4.72	120.88	128.39
67	AM	501	GTP	C2-N3-C4	4.72	120.43	112.30
69	RD	501	GDP	N9-C4-N3	4.72	135.39	125.95
67	KG	501	GTP	C2-N3-C4	4.72	120.43	112.30
69	QJ	501	GDP	N9-C4-N3	4.72	135.38	125.95
67	GE	501	GTP	C2-N3-C4	4.72	120.42	112.30
67	HC	501	GTP	C2-N3-C4	4.72	120.42	112.30
69	MD	501	GDP	C6-C5-N7	4.72	138.87	130.29
67	DK	501	GTP	C2-N3-C4	4.71	120.42	112.30
67	BC	501	GTP	C2-N3-C4	4.71	120.41	112.30
67	IG	501	GTP	C2-N3-C4	4.71	120.41	112.30
69	QH	501	GDP	C2-N3-C4	4.71	120.41	112.30
67	TK	501	GTP	C5-C4-N3	-4.70	120.91	128.39
67	BM	501	GTP	C2-N3-C4	4.70	120.39	112.30
67	AA	501	GTP	C2-N3-C4	4.70	120.39	112.30
67	LG	501	GTP	C2-N3-C4	4.70	120.39	112.30
67	GC	501	GTP	C2-N3-C4	4.69	120.39	112.30
67	BI	501	GTP	C2-N3-C4	4.69	120.38	112.30
67	WG	501	GTP	C2-N3-C4	4.69	120.38	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	OC	501	GTP	C2-N3-C4	4.69	120.37	112.30
67	AA	501	GTP	C5-C4-N3	-4.69	120.93	128.39
67	RB	502	GTP	C5-C4-N3	-4.69	120.93	128.39
67	JG	501	GTP	C2-N3-C4	4.69	120.37	112.30
67	HL	502	GTP	C2-N3-C4	4.68	120.36	112.30
67	NB	502	GTP	C2-N3-C4	4.68	120.36	112.30
69	RB	501	GDP	N9-C4-N3	4.68	135.31	125.95
67	JI	501	GTP	C2-N3-C4	4.68	120.36	112.30
67	UM	501	GTP	C5-C4-N3	-4.68	120.95	128.39
67	IK	501	GTP	C2-N3-C4	4.68	120.35	112.30
67	CG	501	GTP	C2-N3-C4	4.67	120.35	112.30
69	EJ	501	GDP	N9-C4-N3	4.67	135.30	125.95
67	UC	501	GTP	C2-N3-C4	4.67	120.35	112.30
67	QM	501	GTP	C2-N3-C4	4.67	120.35	112.30
67	IN	502	GTP	C2-N3-C4	4.67	120.35	112.30
67	NI	501	GTP	C2-N3-C4	4.67	120.35	112.30
67	KC	501	GTP	C2-N3-C4	4.67	120.34	112.30
67	NF	502	GTP	C2-N3-C4	4.67	120.34	112.30
67	TM	501	GTP	C2-N3-C4	4.67	120.34	112.30
67	BA	501	GTP	C2-N3-C4	4.66	120.33	112.30
67	OF	502	GTP	C2-N3-C4	4.66	120.33	112.30
67	HN	502	GTP	C2-N3-C4	4.66	120.33	112.30
67	PI	501	GTP	C2-N3-C4	4.66	120.33	112.30
67	IC	501	GTP	C2-N3-C4	4.66	120.33	112.30
67	UI	501	GTP	C2-N3-C4	4.66	120.33	112.30
67	LM	501	GTP	C2-N3-C4	4.66	120.32	112.30
67	FK	501	GTP	C2-N3-C4	4.65	120.32	112.30
69	QH	501	GDP	N9-C4-N3	4.65	135.26	125.95
69	RH	501	GDP	N9-C4-N3	4.65	135.25	125.95
69	BJ	501	GDP	N9-C4-N3	4.65	135.25	125.95
67	OE	501	GTP	C2-N3-C4	4.65	120.31	112.30
67	PG	501	GTP	C2-N3-C4	4.65	120.31	112.30
67	IM	501	GTP	C2-N3-C4	4.65	120.30	112.30
67	GM	501	GTP	C2-N3-C4	4.64	120.30	112.30
67	HE	501	GTP	C2-N3-C4	4.64	120.29	112.30
67	BK	501	GTP	C2-N3-C4	4.64	120.29	112.30
67	LE	501	GTP	C2-N3-C4	4.64	120.29	112.30
67	CJ	502	GTP	C2-N3-C4	4.64	120.28	112.30
67	KK	501	GTP	C2-N3-C4	4.63	120.28	112.30
67	VG	501	GTP	C2-N3-C4	4.63	120.28	112.30
67	AC	501	GTP	C2-N3-C4	4.63	120.27	112.30
69	CF	501	GDP	N9-C4-N3	4.63	135.21	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	BL	501	GDP	N9-C4-N3	4.63	135.21	125.95
67	NE	501	GTP	C2-N3-C4	4.63	120.27	112.30
67	TC	501	GTP	C2-N3-C4	4.63	120.27	112.30
67	HI	501	GTP	C2-N3-C4	4.63	120.27	112.30
69	ED	501	GDP	N9-C4-N3	4.63	135.20	125.95
67	EC	501	GTP	C2-N3-C4	4.62	120.26	112.30
67	DE	501	GTP	C2-N3-C4	4.62	120.26	112.30
69	UF	501	GDP	N9-C4-N3	4.62	135.18	125.95
67	UK	501	GTP	C2-N3-C4	4.61	120.25	112.30
67	LC	501	GTP	C2-N3-C4	4.61	120.25	112.30
67	IE	501	GTP	C2-N3-C4	4.61	120.25	112.30
67	VE	501	GTP	C2-N3-C4	4.61	120.25	112.30
67	GG	501	GTP	C2-N3-C4	4.61	120.24	112.30
67	UG	501	GTP	C2-N3-C4	4.61	120.24	112.30
69	HL	501	GDP	N9-C4-N3	4.61	135.17	125.95
67	VI	502	GTP	C2-N3-C4	4.61	120.24	112.30
67	SE	501	GTP	C2-N3-C4	4.61	120.24	112.30
67	UE	501	GTP	C2-N3-C4	4.61	120.23	112.30
67	PA	501	GTP	C2-N3-C4	4.61	120.23	112.30
69	QF	501	GDP	N9-C4-N3	4.61	135.16	125.95
67	FM	501	GTP	C2-N3-C4	4.61	120.23	112.30
69	FN	501	GDP	N9-C4-N3	4.60	135.16	125.95
67	CB	502	GTP	C2-N3-C4	4.60	120.23	112.30
67	LI	501	GTP	C2-N3-C4	4.60	120.23	112.30
69	KB	501	GDP	N9-C4-N3	4.60	135.15	125.95
67	PM	501	GTP	C2-N3-C4	4.59	120.21	112.30
67	II	501	GTP	C2-N3-C4	4.59	120.21	112.30
67	RG	501	GTP	C2-N3-C4	4.59	120.21	112.30
67	DM	501	GTP	C2-N3-C4	4.59	120.20	112.30
67	KI	501	GTP	C2-N3-C4	4.59	120.20	112.30
67	NA	502	GTP	C2-N3-C4	4.59	120.20	112.30
67	KM	501	GTP	C2-N3-C4	4.59	120.20	112.30
67	PC	501	GTP	C2-N3-C4	4.59	120.20	112.30
67	EM	501	GTP	C2-N3-C4	4.59	120.20	112.30
67	SK	501	GTP	C2-N3-C4	4.59	120.20	112.30
69	NB	501	GDP	N2-C2-N3	-4.58	110.72	119.67
69	CJ	501	GDP	N9-C4-N3	4.58	135.12	125.95
67	SM	501	GTP	C2-N3-C4	4.58	120.19	112.30
69	RL	501	GDP	N9-C4-N3	4.58	135.11	125.95
67	JK	501	GTP	C2-N3-C4	4.58	120.19	112.30
69	EF	501	GDP	N9-C4-N3	4.58	135.11	125.95
67	LK	501	GTP	C2-N3-C4	4.58	120.18	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	HK	501	GTP	C2-N3-C4	4.57	120.18	112.30
67	VK	501	GTP	C2-N3-C4	4.57	120.17	112.30
67	JM	501	GTP	C2-N3-C4	4.57	120.17	112.30
67	WE	501	GTP	C2-N3-C4	4.57	120.17	112.30
67	MK	501	GTP	C2-N3-C4	4.57	120.17	112.30
67	O0	502	GTP	C2-N3-C4	4.57	120.17	112.30
67	CA	501	GTP	C2-N3-C4	4.57	120.16	112.30
67	EI	501	GTP	C2-N3-C4	4.56	120.16	112.30
67	TK	501	GTP	C2-N3-C4	4.56	120.16	112.30
67	AM	501	GTP	C5-C4-N3	-4.56	121.13	128.39
67	DC	501	GTP	C2-N3-C4	4.56	120.15	112.30
67	QA	501	GTP	C2-N3-C4	4.56	120.15	112.30
69	DF	501	GDP	N9-C4-N3	4.56	135.07	125.95
69	HD	501	GDP	N9-C4-N3	4.56	135.06	125.95
67	OH	502	GTP	C2-N3-C4	4.55	120.14	112.30
67	VL	502	GTP	C2-N3-C4	4.55	120.14	112.30
69	HF	501	GDP	N9-C4-N3	4.55	135.06	125.95
69	O0	501	GDP	N9-C4-N3	4.55	135.05	125.95
67	CD	502	GTP	C2-N3-C4	4.55	120.14	112.30
67	SC	501	GTP	C2-N3-C4	4.55	120.14	112.30
67	IN	502	GTP	O3G-PG-O3B	4.55	119.88	104.64
69	PH	501	GDP	N9-C4-N3	4.54	135.04	125.95
67	QI	501	GTP	C2-N3-C4	4.54	120.12	112.30
67	KO	501	GTP	C2-N3-C4	4.54	120.12	112.30
69	VH	501	GDP	N9-C4-N3	4.54	135.03	125.95
69	SH	501	GDP	N9-C4-N3	4.54	135.03	125.95
67	WM	501	GTP	C2-N3-C4	4.54	120.11	112.30
69	CH	501	GDP	N9-C4-N3	4.54	135.02	125.95
67	ME	501	GTP	C2-N3-C4	4.53	120.11	112.30
69	WL	501	GDP	N9-C4-N3	4.53	135.02	125.95
67	KG	501	GTP	C5-C4-N3	-4.53	121.18	128.39
69	RF	501	GDP	N9-C4-N3	4.53	135.01	125.95
67	VE	501	GTP	C5-C4-N3	-4.53	121.18	128.39
67	MM	501	GTP	C2-N3-C4	4.53	120.09	112.30
69	WB	501	GDP	N9-C4-N3	4.53	135.00	125.95
67	UM	501	GTP	C2-N3-C4	4.52	120.09	112.30
69	EL	501	GDP	N9-C4-N3	4.52	135.00	125.95
69	FD	501	GDP	N9-C4-N3	4.52	134.99	125.95
69	MD	501	GDP	N2-C2-N3	-4.51	110.86	119.67
67	DF	502	GTP	C2-N3-C4	4.51	120.07	112.30
69	SL	501	GDP	N9-C4-N3	4.51	134.97	125.95
69	VB	501	GDP	N9-C4-N3	4.51	134.97	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	MC	501	GTP	C2-N3-C4	4.51	120.06	112.30
67	FE	501	GTP	C2-N3-C4	4.51	120.06	112.30
67	QE	501	GTP	C2-N3-C4	4.50	120.05	112.30
67	RB	502	GTP	C2-N3-C4	4.50	120.05	112.30
69	LD	501	GDP	N9-C4-N3	4.50	134.94	125.95
69	BB	501	GDP	N9-C4-N3	4.50	134.94	125.95
69	KD	501	GDP	N9-C4-N3	4.49	134.94	125.95
67	HG	502	GTP	C2-N3-C4	4.49	120.04	112.30
69	FB	501	GDP	N9-C4-N3	4.49	134.94	125.95
69	FL	501	GDP	N9-C4-N3	4.49	134.93	125.95
67	DI	501	GTP	C2-N3-C4	4.49	120.03	112.30
67	VC	501	GTP	C2-N3-C4	4.48	120.02	112.30
69	PJ	501	GDP	N9-C4-N3	4.48	134.91	125.95
69	SJ	501	GDP	N9-C4-N3	4.48	134.91	125.95
69	AJ	501	GDP	N9-C4-N3	4.48	134.91	125.95
69	JJ	501	GDP	N9-C4-N3	4.47	134.90	125.95
69	UD	501	GDP	N9-C4-N3	4.47	134.90	125.95
67	QK	501	GTP	C2-N3-C4	4.47	119.99	112.30
69	MF	501	GDP	C5-C4-N3	-4.47	121.28	128.39
69	FH	501	GDP	N9-C4-N3	4.47	134.88	125.95
69	SB	501	GDP	N9-C4-N3	4.46	134.87	125.95
67	QC	501	GTP	C2-N3-C4	4.46	119.98	112.30
69	TL	501	GDP	N9-C4-N3	4.46	134.86	125.95
69	PF	501	GDP	N9-C4-N3	4.45	134.86	125.95
69	LH	501	GDP	C6-C5-N7	4.45	138.39	130.29
69	UJ	501	GDP	N9-C4-N3	4.45	134.85	125.95
67	RA	501	GTP	C2-N3-C4	4.44	119.95	112.30
67	RM	501	GTP	C2-N3-C4	4.44	119.95	112.30
69	IL	501	GDP	N9-C4-N3	4.44	134.83	125.95
69	PD	501	GDP	N9-C4-N3	4.44	134.83	125.95
69	WF	501	GDP	N9-C4-N3	4.43	134.82	125.95
69	DJ	501	GDP	N9-C4-N3	4.43	134.81	125.95
69	QD	501	GDP	N9-C4-N3	4.43	134.81	125.95
69	TB	501	GDP	N9-C4-N3	4.42	134.80	125.95
69	GJ	501	GDP	N9-C4-N3	4.42	134.79	125.95
69	DN	501	GDP	N9-C4-N3	4.42	134.79	125.95
67	CL	502	GTP	C2-N3-C4	4.42	119.91	112.30
69	DH	501	GDP	N9-C4-N3	4.41	134.78	125.95
67	PK	501	GTP	C2-N3-C4	4.41	119.90	112.30
69	FJ	501	GDP	N9-C4-N3	4.41	134.77	125.95
69	EN	501	GDP	N9-C4-N3	4.41	134.77	125.95
69	NL	501	GDP	N9-C4-N3	4.41	134.77	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	QG	501	GTP	C2-N3-C4	4.41	119.89	112.30
69	IJ	501	GDP	N9-C4-N3	4.40	134.76	125.95
69	KJ	501	GDP	N9-C4-N3	4.40	134.75	125.95
69	GF	501	GDP	N9-C4-N3	4.39	134.74	125.95
67	AH	502	GTP	C5-C4-N3	-4.39	121.41	128.39
69	AH	501	GDP	N9-C4-N3	4.38	134.71	125.95
67	MG	501	GTP	C2-N3-C4	4.38	119.84	112.30
69	SD	501	GDP	N9-C4-N3	4.38	134.70	125.95
69	WN	501	GDP	N9-C4-N3	4.37	134.70	125.95
69	JL	501	GDP	N9-C4-N3	4.37	134.70	125.95
69	KN	501	GDP	N9-C4-N3	4.37	134.69	125.95
69	WH	501	GDP	N9-C4-N3	4.36	134.68	125.95
69	AB	501	GDP	N9-C4-N3	4.36	134.68	125.95
69	OJ	501	GDP	N9-C4-N3	4.36	134.67	125.95
69	BH	501	GDP	N9-C4-N3	4.36	134.67	125.95
69	VN	501	GDP	N9-C4-N3	4.35	134.66	125.95
69	CB	501	GDP	N9-C4-N3	4.35	134.66	125.95
69	DD	501	GDP	N9-C4-N3	4.35	134.66	125.95
69	VL	501	GDP	N9-C4-N3	4.35	134.65	125.95
69	IN	501	GDP	N9-C4-N3	4.35	134.65	125.95
69	JB	501	GDP	N9-C4-N3	4.35	134.65	125.95
69	TJ	501	GDP	N9-C4-N3	4.35	134.64	125.95
69	TF	501	GDP	N9-C4-N3	4.35	134.64	125.95
69	GN	501	GDP	N9-C4-N3	4.34	134.63	125.95
69	TD	501	GDP	N9-C4-N3	4.34	134.62	125.95
69	AL	501	GDP	N9-C4-N3	4.33	134.60	125.95
69	OD	501	GDP	N9-C4-N3	4.33	134.60	125.95
69	HN	501	GDP	N9-C4-N3	4.32	134.60	125.95
69	LN	501	GDP	N9-C4-N3	4.32	134.59	125.95
69	BF	501	GDP	N9-C4-N3	4.32	134.58	125.95
69	HB	501	GDP	N9-C4-N3	4.31	134.58	125.95
69	EB	501	GDP	N9-C4-N3	4.31	134.57	125.95
69	KL	501	GDP	N9-C4-N3	4.31	134.57	125.95
67	SA	501	GTP	C2-N3-C4	4.31	119.72	112.30
69	VJ	501	GDP	N9-C4-N3	4.30	134.55	125.95
69	BD	501	GDP	N9-C4-N3	4.30	134.55	125.95
69	EH	501	GDP	N9-C4-N3	4.30	134.55	125.95
69	AD	501	GDP	N9-C4-N3	4.30	134.54	125.95
69	AF	501	GDP	N9-C4-N3	4.29	134.54	125.95
67	SI	501	GTP	C2-N3-C4	4.29	119.69	112.30
69	UB	501	GDP	N9-C4-N3	4.29	134.54	125.95
69	ID	501	GDP	N9-C4-N3	4.29	134.53	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	GD	501	GDP	N9-C4-N3	4.29	134.53	125.95
67	AG	501	GTP	C5-C4-N3	-4.29	121.57	128.39
69	WD	501	GDP	N9-C4-N3	4.29	134.52	125.95
69	PL	501	GDP	N9-C4-N3	4.28	134.52	125.95
69	RJ	501	GDP	C2-N3-C4	4.28	119.67	112.30
69	KH	501	GDP	N9-C4-N3	4.27	134.49	125.95
69	UN	501	GDP	N9-C4-N3	4.27	134.49	125.95
67	RK	501	GTP	C2-N3-C4	4.27	119.65	112.30
69	HH	501	GDP	N9-C4-N3	4.26	134.47	125.95
69	GH	501	GDP	N9-C4-N3	4.26	134.47	125.95
69	JF	501	GDP	N9-C4-N3	4.26	134.46	125.95
67	AK	501	GTP	C5-C4-N3	-4.25	121.62	128.39
67	PD	502	GTP	C2-N3-C4	4.25	119.62	112.30
69	GL	501	GDP	N9-C4-N3	4.25	134.44	125.95
67	VL	502	GTP	O3G-PG-O3B	4.25	118.88	104.64
69	OH	501	GDP	N9-C4-N3	4.24	134.42	125.95
69	ND	501	GDP	N9-C4-N3	4.23	134.42	125.95
67	EG	501	GTP	C2-N3-C4	4.23	119.59	112.30
69	NH	501	GDP	C6-C5-N7	4.23	137.99	130.29
69	IH	501	GDP	N9-C4-N3	4.23	134.41	125.95
69	KF	501	GDP	N9-C4-N3	4.23	134.40	125.95
67	AD	502	GTP	C5-C4-N3	-4.22	121.67	128.39
69	OB	501	GDP	N9-C4-N3	4.22	134.38	125.95
69	VF	501	GDP	N9-C4-N3	4.22	134.38	125.95
69	VD	501	GDP	N9-C4-N3	4.22	134.38	125.95
69	GB	501	GDP	N9-C4-N3	4.21	134.38	125.95
67	AC	501	GTP	C5-C4-N3	-4.21	121.69	128.39
69	VN	501	GDP	O2B-PB-O3A	4.21	118.74	104.64
69	PB	501	GDP	C6-C5-N7	4.20	137.93	130.29
67	RK	501	GTP	C5-C4-N3	-4.19	121.72	128.39
67	FG	501	GTP	N9-C4-N3	4.19	134.33	125.95
69	TH	501	GDP	N9-C4-N3	4.19	134.33	125.95
69	CD	501	GDP	N9-C4-N3	4.19	134.33	125.95
69	JD	501	GDP	N9-C4-N3	4.18	134.31	125.95
69	UL	501	GDP	N9-C4-N3	4.18	134.31	125.95
69	IF	501	GDP	N9-C4-N3	4.17	134.30	125.95
69	UH	501	GDP	N9-C4-N3	4.17	134.28	125.95
69	JN	501	GDP	N9-C4-N3	4.16	134.28	125.95
69	MF	501	GDP	N2-C2-N1	4.16	125.55	116.76
69	DB	501	GDP	N9-C4-N3	4.16	134.27	125.95
69	NJ	501	GDP	N9-C4-N3	4.15	134.26	125.95
69	OL	501	GDP	N9-C4-N3	4.15	134.25	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	LH	501	GDP	N2-C2-N3	-4.15	111.58	119.67
69	HJ	501	GDP	N9-C4-N3	4.15	134.24	125.95
69	JH	501	GDP	N9-C4-N3	4.14	134.24	125.95
69	OF	501	GDP	C4-C5-N7	-4.14	104.11	110.67
69	ML	501	GDP	C5-C4-N3	-4.14	121.80	128.39
69	N0	501	GDP	C6-C5-N7	4.12	137.79	130.29
69	LB	501	GDP	C6-C5-N7	4.11	137.77	130.29
67	EE	501	GTP	N9-C4-N3	4.09	134.13	125.95
69	SF	501	GDP	N9-C4-N3	4.09	134.13	125.95
67	RI	501	GTP	C2-N3-C4	4.05	119.28	112.30
69	LL	501	GDP	N9-C4-N3	4.04	134.04	125.95
69	NF	501	GDP	N9-C4-N3	4.04	134.03	125.95
67	TG	501	GTP	N9-C4-N3	4.03	134.01	125.95
69	OF	501	GDP	C6-C5-N7	4.02	137.61	130.29
69	LJ	501	GDP	N9-C4-N3	3.99	133.94	125.95
69	MJ	501	GDP	N9-C4-N3	3.98	133.91	125.95
69	MN	501	GDP	N9-C4-N3	3.98	133.90	125.95
67	MG	501	GTP	C5-C4-N3	-3.97	122.07	128.39
69	RJ	501	GDP	N9-C4-N3	3.95	133.86	125.95
67	FC	501	GTP	C5-C4-N3	-3.95	122.11	128.39
67	TI	501	GTP	C2-N3-C4	3.93	119.07	112.30
69	MB	501	GDP	C6-C5-N7	3.92	137.43	130.29
69	LF	501	GDP	N9-C4-N3	3.91	133.77	125.95
67	SI	501	GTP	N9-C8-N7	-3.90	106.17	113.40
69	MD	501	GDP	C4-C5-N7	-3.87	104.54	110.67
69	MB	501	GDP	N9-C4-N3	3.85	133.64	125.95
69	MH	501	GDP	N9-C4-N3	3.84	133.64	125.95
67	SI	501	GTP	N9-C4-N3	3.83	133.60	125.95
67	MI	501	GTP	C5-C4-N3	-3.81	122.32	128.39
67	FC	501	GTP	C2-N3-C4	3.78	118.81	112.30
67	SA	501	GTP	N9-C4-N3	3.78	133.51	125.95
69	NH	501	GDP	O4'-C1'-N9	3.77	116.89	108.36
67	DI	501	GTP	N9-C4-N3	3.75	133.45	125.95
69	MN	501	GDP	C6-C5-N7	3.74	137.09	130.29
69	MJ	501	GDP	C6-C5-N7	3.74	137.09	130.29
69	NB	501	GDP	C4-C5-N7	-3.73	104.76	110.67
69	N0	501	GDP	N9-C4-N3	3.71	133.37	125.95
69	NJ	501	GDP	C6-C5-N7	3.71	137.03	130.29
67	PD	502	GTP	O2A-PA-O3A	3.71	117.29	107.27
67	AH	502	GTP	O3G-PG-O3B	3.70	117.05	104.64
67	IE	501	GTP	N9-C4-N3	3.69	133.34	125.95
67	SI	501	GTP	C8-N7-C5	3.69	110.83	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	QE	501	GTP	C8-N7-C5	3.68	110.81	104.26
69	MH	501	GDP	C6-C5-N7	3.68	136.98	130.29
69	LF	501	GDP	C6-C5-N7	3.67	136.98	130.29
69	NF	501	GDP	C6-C5-N7	3.67	136.98	130.29
69	ML	501	GDP	C4-C5-N7	-3.66	104.87	110.67
67	PC	501	GTP	N9-C4-N3	3.66	133.26	125.95
69	OF	501	GDP	N2-C2-N3	-3.63	112.59	119.67
69	DB	501	GDP	C6-C5-N7	3.62	136.89	130.29
69	LJ	501	GDP	C6-C5-N7	3.62	136.87	130.29
69	LL	501	GDP	C6-C5-N7	3.61	136.86	130.29
69	NH	501	GDP	N9-C4-N3	3.61	133.17	125.95
67	EK	501	GTP	N9-C4-N3	3.59	133.13	125.95
69	CB	501	GDP	C6-C5-N7	3.59	136.82	130.29
69	UH	501	GDP	C6-C5-N7	3.59	136.82	130.29
67	QE	501	GTP	N9-C8-N7	-3.58	106.76	113.40
67	GI	501	GTP	N9-C4-N3	3.57	133.10	125.95
69	ND	501	GDP	C6-C5-N7	3.56	136.78	130.29
67	NA	502	GTP	N9-C4-N3	3.56	133.07	125.95
67	WG	501	GTP	N9-C4-N3	3.54	133.04	125.95
69	MF	501	GDP	C4-C5-N7	-3.54	105.06	110.67
69	LB	501	GDP	N9-C4-N3	3.54	133.03	125.95
69	OL	501	GDP	C6-C5-N7	3.54	136.73	130.29
69	BD	501	GDP	C2'-C3'-C4'	3.53	109.43	102.61
69	JD	501	GDP	C6-C5-N7	3.53	136.71	130.29
67	DM	501	GTP	N9-C4-N3	3.53	133.01	125.95
69	HJ	501	GDP	C6-C5-N7	3.53	136.71	130.29
69	UL	501	GDP	C6-C5-N7	3.53	136.71	130.29
69	JN	501	GDP	C6-C5-N7	3.52	136.70	130.29
69	VD	501	GDP	C6-C5-N7	3.52	136.70	130.29
67	TG	501	GTP	C2-N1-C6	-3.52	118.73	125.11
67	RI	501	GTP	C5-C4-N3	-3.52	122.79	128.39
67	DK	501	GTP	N9-C4-N3	3.51	132.98	125.95
67	BA	501	GTP	N9-C4-N3	3.51	132.98	125.95
69	JH	501	GDP	C6-C5-N7	3.48	136.63	130.29
69	IF	501	GDP	C6-C5-N7	3.48	136.63	130.29
67	CH	502	GTP	O3G-PG-O3B	3.48	116.31	104.64
67	DA	501	GTP	N9-C4-N3	3.48	132.91	125.95
69	HH	501	GDP	C6-C5-N7	3.48	136.62	130.29
69	KH	501	GDP	C6-C5-N7	3.47	136.61	130.29
67	NI	501	GTP	N9-C4-N3	3.47	132.89	125.95
67	LG	501	GTP	N9-C4-N3	3.47	132.89	125.95
67	EG	501	GTP	N9-C4-N3	3.47	132.88	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	IH	501	GDP	C6-C5-N7	3.46	136.59	130.29
69	VF	501	GDP	C6-C5-N7	3.46	136.59	130.29
69	PL	501	GDP	C6-C5-N7	3.46	136.59	130.29
67	WK	501	GTP	N9-C4-N3	3.46	132.87	125.95
67	EC	501	GTP	N9-C4-N3	3.46	132.87	125.95
67	CD	502	GTP	N9-C4-N3	3.46	132.87	125.95
69	GD	501	GDP	C6-C5-N7	3.46	136.58	130.29
69	GB	501	GDP	C6-C5-N7	3.46	136.58	130.29
69	JF	501	GDP	C6-C5-N7	3.45	136.58	130.29
69	OB	501	GDP	C6-C5-N7	3.45	136.57	130.29
69	TH	501	GDP	C6-C5-N7	3.45	136.57	130.29
69	KF	501	GDP	C6-C5-N7	3.45	136.57	130.29
69	GL	501	GDP	C6-C5-N7	3.45	136.56	130.29
69	QD	501	GDP	C6-C5-N7	3.45	136.56	130.29
67	SE	501	GTP	N9-C4-N3	3.44	132.83	125.95
69	OH	501	GDP	C6-C5-N7	3.44	136.55	130.29
69	CD	501	GDP	C6-C5-N7	3.43	136.54	130.29
69	VJ	501	GDP	C6-C5-N7	3.43	136.53	130.29
67	QK	501	GTP	N9-C4-N3	3.43	132.81	125.95
69	PB	501	GDP	N9-C4-N3	3.43	132.81	125.95
67	BM	501	GTP	N9-C4-N3	3.43	132.81	125.95
69	VN	501	GDP	O2B-PB-O1B	-3.43	97.47	110.83
69	WD	501	GDP	C6-C5-N7	3.42	136.52	130.29
69	GH	501	GDP	C6-C5-N7	3.42	136.51	130.29
69	HN	501	GDP	C6-C5-N7	3.42	136.51	130.29
69	EB	501	GDP	C6-C5-N7	3.41	136.50	130.29
69	GN	501	GDP	C6-C5-N7	3.41	136.50	130.29
69	ID	501	GDP	C6-C5-N7	3.41	136.50	130.29
67	TI	501	GTP	C2-N1-C6	-3.41	118.92	125.11
69	MF	501	GDP	N2-C2-N3	-3.41	113.01	119.67
67	CB	502	GTP	N9-C4-N3	3.41	132.77	125.95
69	BD	501	GDP	C6-C5-N7	3.41	136.49	130.29
69	UN	501	GDP	C6-C5-N7	3.41	136.49	130.29
67	WM	501	GTP	N9-C4-N3	3.41	132.77	125.95
67	TM	501	GTP	N9-C4-N3	3.41	132.76	125.95
69	HB	501	GDP	C6-C5-N7	3.41	136.49	130.29
69	TF	501	GDP	C6-C5-N7	3.40	136.48	130.29
69	TD	501	GDP	C6-C5-N7	3.40	136.48	130.29
69	EH	501	GDP	C6-C5-N7	3.40	136.47	130.29
69	AD	501	GDP	C6-C5-N7	3.40	136.47	130.29
69	VN	501	GDP	C6-C5-N7	3.40	136.47	130.29
67	NF	502	GTP	N9-C4-N3	3.40	132.75	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	CG	501	GTP	N9-C4-N3	3.39	132.74	125.95
69	KL	501	GDP	C6-C5-N7	3.39	136.46	130.29
69	BH	501	GDP	C6-C5-N7	3.39	136.46	130.29
69	PJ	501	GDP	C6-C5-N7	3.39	136.45	130.29
69	KN	501	GDP	C6-C5-N7	3.39	136.45	130.29
69	SF	501	GDP	C6-C5-N7	3.39	136.45	130.29
67	II	501	GTP	N9-C4-N3	3.39	132.72	125.95
69	VL	501	GDP	C6-C5-N7	3.38	136.45	130.29
67	HG	502	GTP	N9-C4-N3	3.38	132.72	125.95
69	LN	501	GDP	C6-C5-N7	3.38	136.44	130.29
67	NE	501	GTP	N9-C4-N3	3.38	132.70	125.95
67	OH	502	GTP	O3G-PG-O3B	3.37	115.93	104.64
69	AB	501	GDP	C6-C5-N7	3.37	136.42	130.29
69	IN	501	GDP	C6-C5-N7	3.37	136.42	130.29
67	OF	502	GTP	N9-C4-N3	3.36	132.68	125.95
67	CL	502	GTP	N9-C4-N3	3.36	132.68	125.95
69	AL	501	GDP	C6-C5-N7	3.36	136.41	130.29
69	IJ	501	GDP	C6-C5-N7	3.36	136.41	130.29
69	JB	501	GDP	C6-C5-N7	3.36	136.41	130.29
69	OJ	501	GDP	C6-C5-N7	3.36	136.40	130.29
67	QG	501	GTP	N9-C4-N3	3.36	132.67	125.95
69	BF	501	GDP	C6-C5-N7	3.36	136.40	130.29
67	RE	501	GTP	N9-C4-N3	3.35	132.66	125.95
67	UE	501	GTP	N9-C4-N3	3.35	132.66	125.95
67	PI	501	GTP	N9-C4-N3	3.35	132.65	125.95
69	AF	501	GDP	C6-C5-N7	3.35	136.38	130.29
69	IL	501	GDP	C6-C5-N7	3.35	136.38	130.29
69	GF	501	GDP	C6-C5-N7	3.35	136.38	130.29
69	OD	501	GDP	C6-C5-N7	3.34	136.37	130.29
67	RA	501	GTP	N9-C4-N3	3.34	132.63	125.95
67	TG	501	GTP	O6-C6-C5	-3.34	117.71	126.53
69	TB	501	GDP	C6-C5-N7	3.34	136.36	130.29
69	UB	501	GDP	C6-C5-N7	3.33	136.36	130.29
69	VH	501	GDP	C6-C5-N7	3.33	136.36	130.29
67	DA	501	GTP	C3'-C2'-C1'	3.33	107.77	101.46
67	CA	501	GTP	N9-C4-N3	3.33	132.61	125.95
69	AH	501	GDP	C6-C5-N7	3.33	136.35	130.29
67	LE	501	GTP	N9-C4-N3	3.33	132.61	125.95
69	KJ	501	GDP	C6-C5-N7	3.33	136.34	130.29
67	VK	501	GTP	N9-C4-N3	3.32	132.60	125.95
69	GJ	501	GDP	C6-C5-N7	3.32	136.34	130.29
69	WH	501	GDP	C6-C5-N7	3.32	136.33	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	PG	501	GTP	N9-C4-N3	3.32	132.59	125.95
69	N0	501	GDP	C4-C5-N7	-3.32	105.41	110.67
69	PF	501	GDP	C6-C5-N7	3.32	136.33	130.29
67	BG	501	GTP	N9-C4-N3	3.32	132.59	125.95
67	CB	502	GTP	O3G-PG-O3B	3.31	115.74	104.64
67	KE	501	GTP	N9-C4-N3	3.31	132.58	125.95
69	FJ	501	GDP	C6-C5-N7	3.31	136.31	130.29
69	VB	501	GDP	C6-C5-N7	3.31	136.31	130.29
69	PD	501	GDP	C6-C5-N7	3.31	136.31	130.29
69	TJ	501	GDP	C6-C5-N7	3.31	136.31	130.29
67	WG	501	GTP	C2-N1-C6	-3.31	119.11	125.11
67	JE	501	GTP	N9-C4-N3	3.31	132.57	125.95
69	WL	501	GDP	C6-C5-N7	3.31	136.31	130.29
67	HL	502	GTP	N9-C4-N3	3.31	132.56	125.95
67	QE	501	GTP	N9-C4-N3	3.31	132.56	125.95
69	IB	501	GDP	C3'-C2'-C1'	3.30	107.71	101.46
67	SM	501	GTP	N9-C4-N3	3.30	132.56	125.95
67	PK	501	GTP	N9-C4-N3	3.30	132.55	125.95
67	EE	501	GTP	C2-N1-C6	-3.30	119.12	125.11
69	UJ	501	GDP	C6-C5-N7	3.30	136.29	130.29
67	DF	502	GTP	N9-C4-N3	3.30	132.54	125.95
69	JL	501	GDP	C6-C5-N7	3.29	136.28	130.29
67	HC	501	GTP	O2B-PB-O3B	3.29	116.18	107.27
69	DD	501	GDP	C6-C5-N7	3.29	136.28	130.29
67	KC	501	GTP	N9-C4-N3	3.29	132.53	125.95
69	LH	501	GDP	C4-C5-N7	-3.29	105.46	110.67
69	FD	501	GDP	C6-C5-N7	3.29	136.27	130.29
67	EC	501	GTP	C2-N1-C6	-3.28	119.16	125.11
67	DC	501	GTP	N9-C4-N3	3.28	132.51	125.95
69	TL	501	GDP	C6-C5-N7	3.28	136.25	130.29
67	IM	501	GTP	N9-C4-N3	3.27	132.50	125.95
67	LI	501	GTP	N9-C4-N3	3.27	132.50	125.95
69	SD	501	GDP	C6-C5-N7	3.27	136.25	130.29
69	FB	501	GDP	C6-C5-N7	3.27	136.25	130.29
69	SJ	501	GDP	C6-C5-N7	3.27	136.24	130.29
69	NL	501	GDP	C6-C5-N7	3.27	136.24	130.29
67	HC	501	GTP	N9-C4-N3	3.27	132.49	125.95
67	FI	501	GTP	N9-C4-N3	3.27	132.49	125.95
67	GE	501	GTP	N9-C4-N3	3.27	132.49	125.95
67	IG	501	GTP	N9-C4-N3	3.27	132.48	125.95
69	BB	501	GDP	C6-C5-N7	3.26	136.23	130.29
69	EN	501	GDP	C6-C5-N7	3.26	136.23	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	SE	501	GTP	C2-N1-C6	-3.25	119.21	125.11
69	DN	501	GDP	C6-C5-N7	3.25	136.21	130.29
67	PD	502	GTP	C2-N1-C6	-3.25	119.21	125.11
67	BC	501	GTP	N9-C4-N3	3.25	132.46	125.95
67	SI	501	GTP	C2-N1-C6	-3.25	119.22	125.11
67	NB	502	GTP	N9-C4-N3	3.25	132.45	125.95
67	SC	501	GTP	N9-C4-N3	3.25	132.45	125.95
69	CH	501	GDP	C6-C5-N7	3.25	136.20	130.29
67	FK	501	GTP	N9-C4-N3	3.25	132.45	125.95
67	LM	501	GTP	N9-C4-N3	3.25	132.45	125.95
67	EM	501	GTP	N9-C4-N3	3.25	132.45	125.95
69	AJ	501	GDP	C6-C5-N7	3.24	136.19	130.29
69	UD	501	GDP	C6-C5-N7	3.24	136.19	130.29
69	WF	501	GDP	C6-C5-N7	3.24	136.19	130.29
69	ML	501	GDP	O6-C6-C5	-3.24	117.97	126.53
67	NK	501	GTP	N9-C4-N3	3.24	132.44	125.95
67	GJ	502	GTP	N9-C4-N3	3.24	132.43	125.95
67	KK	501	GTP	N9-C4-N3	3.24	132.42	125.95
69	NH	501	GDP	N2-C2-N1	3.24	123.59	116.76
69	WN	501	GDP	C6-C5-N7	3.23	136.18	130.29
69	HF	501	GDP	C6-C5-N7	3.23	136.18	130.29
69	SL	501	GDP	C6-C5-N7	3.23	136.17	130.29
69	WB	501	GDP	C6-C5-N7	3.23	136.17	130.29
67	MM	501	GTP	N9-C4-N3	3.23	132.41	125.95
67	ME	501	GTP	N9-C4-N3	3.23	132.41	125.95
69	KD	501	GDP	C6-C5-N7	3.23	136.16	130.29
69	HD	501	GDP	C6-C5-N7	3.22	136.16	130.29
69	O0	501	GDP	C6-C5-N7	3.22	136.15	130.29
67	OK	501	GTP	N9-C4-N3	3.21	132.38	125.95
67	MI	501	GTP	C2-N1-C6	-3.21	119.28	125.11
69	SH	501	GDP	C6-C5-N7	3.21	136.13	130.29
67	TI	501	GTP	N9-C4-N3	3.21	132.37	125.95
67	WC	501	GTP	N9-C4-N3	3.21	132.36	125.95
67	HE	501	GTP	N9-C4-N3	3.20	132.35	125.95
69	FH	501	GDP	C6-C5-N7	3.20	136.11	130.29
69	CJ	501	GDP	C6-C5-N7	3.20	136.11	130.29
69	EL	501	GDP	C6-C5-N7	3.19	136.10	130.29
67	GC	501	GTP	N9-C4-N3	3.19	132.34	125.95
67	MI	501	GTP	O6-C6-C5	-3.19	118.11	126.53
69	LD	501	GDP	C6-C5-N7	3.19	136.10	130.29
67	SF	502	GTP	N9-C4-N3	3.19	132.33	125.95
69	SB	501	GDP	C6-C5-N7	3.19	136.09	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	WI	501	GTP	N9-C4-N3	3.19	132.33	125.95
67	BI	501	GTP	N9-C4-N3	3.19	132.32	125.95
69	FN	501	GDP	C6-C5-N7	3.18	136.09	130.29
69	PB	501	GDP	N2-C2-N1	3.18	123.48	116.76
69	JJ	501	GDP	C6-C5-N7	3.18	136.08	130.29
67	O0	502	GTP	N9-C4-N3	3.18	132.31	125.95
69	BL	501	GDP	C6-C5-N7	3.18	136.07	130.29
67	CJ	502	GTP	N9-C4-N3	3.18	132.31	125.95
67	JK	501	GTP	N9-C4-N3	3.17	132.30	125.95
67	LK	501	GTP	N9-C4-N3	3.17	132.30	125.95
67	IC	501	GTP	N9-C4-N3	3.17	132.29	125.95
67	SK	501	GTP	N9-C4-N3	3.17	132.29	125.95
69	FL	501	GDP	C6-C5-N7	3.17	136.05	130.29
67	QA	501	GTP	N9-C4-N3	3.16	132.28	125.95
69	HL	501	GDP	C6-C5-N7	3.16	136.05	130.29
67	QM	501	GTP	N9-C4-N3	3.16	132.28	125.95
67	HN	502	GTP	N9-C4-N3	3.16	132.28	125.95
67	UC	501	GTP	N9-C4-N3	3.16	132.28	125.95
69	DH	501	GDP	C6-C5-N7	3.15	136.02	130.29
67	GM	501	GTP	N9-C4-N3	3.14	132.24	125.95
69	QL	501	GDP	C6-C5-N7	3.14	136.01	130.29
67	JI	501	GTP	N9-C4-N3	3.14	132.23	125.95
67	WE	501	GTP	N9-C4-N3	3.14	132.23	125.95
67	MK	501	GTP	N9-C4-N3	3.14	132.22	125.95
67	HK	501	GTP	N9-C4-N3	3.14	132.22	125.95
69	EF	501	GDP	C6-C5-N7	3.13	135.99	130.29
67	KI	501	GTP	N9-C4-N3	3.13	132.21	125.95
67	LC	501	GTP	N9-C4-N3	3.13	132.21	125.95
67	VI	502	GTP	N9-C4-N3	3.13	132.21	125.95
69	ML	501	GDP	C1'-N9-C4	-3.13	117.24	126.49
67	RI	501	GTP	N2-C2-N1	3.13	123.36	116.76
67	OK	501	GTP	C2-N1-C6	-3.12	119.45	125.11
69	BJ	501	GDP	C6-C5-N7	3.12	135.96	130.29
69	ED	501	GDP	C6-C5-N7	3.11	135.96	130.29
67	TG	501	GTP	C5-C6-N1	3.11	121.18	113.25
67	AK	501	GTP	O3G-PG-O3B	3.11	115.08	104.64
67	QG	501	GTP	N9-C8-N7	-3.11	107.63	113.40
67	PD	502	GTP	N9-C4-N3	3.11	132.17	125.95
69	CF	501	GDP	C6-C5-N7	3.11	135.95	130.29
67	QC	501	GTP	N9-C4-N3	3.11	132.17	125.95
67	OC	501	GTP	N9-C4-N3	3.11	132.17	125.95
67	TE	501	GTP	N9-C4-N3	3.11	132.17	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	EI	501	GTP	N9-C4-N3	3.11	132.16	125.95
67	IN	502	GTP	N9-C4-N3	3.10	132.16	125.95
67	JM	501	GTP	N9-C4-N3	3.10	132.16	125.95
69	QF	501	GDP	C6-C5-N7	3.10	135.94	130.29
67	RK	501	GTP	N9-C8-N7	-3.10	107.65	113.40
67	UK	501	GTP	N9-C4-N3	3.10	132.16	125.95
67	GG	501	GTP	N9-C4-N3	3.10	132.15	125.95
67	BE	501	GTP	N9-C4-N3	3.10	132.15	125.95
67	FE	501	GTP	N9-C4-N3	3.10	132.15	125.95
67	VG	501	GTP	N9-C4-N3	3.10	132.15	125.95
67	DM	501	GTP	C2-N1-C6	-3.10	119.50	125.11
67	DE	501	GTP	N9-C4-N3	3.09	132.13	125.95
69	UF	501	GDP	C6-C5-N7	3.09	135.91	130.29
69	RJ	501	GDP	C4-C5-N7	-3.08	105.78	110.67
69	WJ	501	GDP	C2'-C3'-C4'	3.08	108.56	102.61
67	DK	501	GTP	C2-N1-C6	-3.08	119.53	125.11
69	LH	501	GDP	O6-C6-C5	-3.07	118.42	126.53
67	PC	501	GTP	C2-N1-C6	-3.07	119.53	125.11
67	VC	501	GTP	C2-N1-C6	-3.07	119.54	125.11
69	QH	501	GDP	C6-C5-N7	3.07	135.87	130.29
67	QI	501	GTP	N9-C4-N3	3.06	132.08	125.95
69	PH	501	GDP	C6-C5-N7	3.06	135.86	130.29
67	KO	501	GTP	N9-C4-N3	3.06	132.08	125.95
69	RB	501	GDP	C6-C5-N7	3.06	135.86	130.29
69	RF	501	GDP	C6-C5-N7	3.06	135.86	130.29
69	RH	501	GDP	C6-C5-N7	3.06	135.86	130.29
67	GI	501	GTP	C2-N1-C6	-3.06	119.56	125.11
67	QG	501	GTP	C2-N1-C6	-3.06	119.56	125.11
67	HC	501	GTP	O3G-PG-O3B	3.06	114.89	104.64
67	UG	501	GTP	N9-C4-N3	3.06	132.07	125.95
67	HI	501	GTP	N9-C4-N3	3.05	132.06	125.95
67	RB	502	GTP	N9-C4-N3	3.05	132.06	125.95
67	SA	501	GTP	O6-C6-C5	-3.05	118.47	126.53
67	PA	501	GTP	N9-C4-N3	3.05	132.06	125.95
69	DJ	501	GDP	C6-C5-N7	3.05	135.84	130.29
67	JG	501	GTP	N9-C4-N3	3.05	132.05	125.95
67	KE	501	GTP	C2-N1-C6	-3.05	119.58	125.11
67	RI	501	GTP	C2-N1-C6	-3.04	119.59	125.11
69	RL	501	GDP	C6-C5-N7	3.04	135.83	130.29
69	DF	501	GDP	C6-C5-N7	3.04	135.82	130.29
67	RG	501	GTP	N9-C4-N3	3.04	132.03	125.95
69	LD	501	GDP	O6-C6-C5	-3.04	118.51	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	EJ	501	GDP	C6-C5-N7	3.04	135.82	130.29
69	NH	501	GDP	C4-C5-N7	-3.04	105.86	110.67
67	BK	501	GTP	N9-C4-N3	3.04	132.03	125.95
67	OH	502	GTP	N9-C4-N3	3.04	132.03	125.95
69	PB	501	GDP	C4-C5-N7	-3.04	105.86	110.67
67	FM	501	GTP	N9-C4-N3	3.04	132.03	125.95
69	QB	501	GDP	C6-C5-N7	3.03	135.81	130.29
69	FF	501	GDP	C6-C5-N7	3.03	135.81	130.29
67	TC	501	GTP	N9-C4-N3	3.03	132.02	125.95
67	TE	501	GTP	C2-N1-C6	-3.03	119.61	125.11
67	CH	502	GTP	N9-C4-N3	3.03	132.01	125.95
67	WK	501	GTP	C2-N1-C6	-3.03	119.62	125.11
67	AK	501	GTP	N9-C8-N7	-3.03	107.78	113.40
67	MI	501	GTP	N9-C8-N7	-3.03	107.79	113.40
67	EK	501	GTP	C2-N1-C6	-3.03	119.62	125.11
67	QK	501	GTP	C2-N1-C6	-3.03	119.62	125.11
67	QG	501	GTP	O6-C6-C5	-3.02	118.56	126.53
69	DL	501	GDP	C6-C5-N7	3.02	135.78	130.29
67	IK	501	GTP	N9-C4-N3	3.02	131.99	125.95
67	MC	501	GTP	N9-C4-N3	3.02	131.99	125.95
67	EC	501	GTP	N9-C8-N7	-3.01	107.81	113.40
69	RJ	501	GDP	C6-C5-N7	3.01	135.77	130.29
67	CD	502	GTP	O3G-PG-O3B	3.01	114.73	104.64
67	OE	501	GTP	N9-C4-N3	3.01	131.97	125.95
67	FG	501	GTP	C2-N1-C6	-3.01	119.65	125.11
67	BA	501	GTP	C2-N1-C6	-3.01	119.66	125.11
67	RI	501	GTP	C4-C5-N7	-3.01	105.91	110.67
67	CB	502	GTP	C2-N1-C6	-3.00	119.67	125.11
67	SE	501	GTP	N9-C8-N7	-3.00	107.84	113.40
67	DA	501	GTP	C2-N1-C6	-3.00	119.67	125.11
67	DC	501	GTP	C2-N1-C6	-3.00	119.67	125.11
69	MF	501	GDP	C1'-N9-C4	-3.00	117.63	126.49
69	ML	501	GDP	O4'-C1'-N9	2.99	115.14	108.36
67	RE	501	GTP	C2-N1-C6	-2.99	119.68	125.11
69	WJ	501	GDP	C6-C5-N7	2.99	135.73	130.29
69	QJ	501	GDP	C6-C5-N7	2.99	135.73	130.29
67	BC	501	GTP	C2-N1-C6	-2.99	119.69	125.11
67	QK	501	GTP	O6-C6-C5	-2.99	118.64	126.53
67	PC	501	GTP	O6-C6-C5	-2.99	118.65	126.53
67	QE	501	GTP	C2-N1-C6	-2.99	119.69	125.11
67	FI	501	GTP	C2-N1-C6	-2.99	119.70	125.11
67	NB	502	GTP	C2-N1-C6	-2.99	119.70	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	UI	501	GTP	N9-C4-N3	2.98	131.91	125.95
67	BI	501	GTP	C2-N1-C6	-2.98	119.71	125.11
69	CL	501	GDP	C6-C5-N7	2.98	135.71	130.29
67	DM	501	GTP	O6-C6-C5	-2.97	118.68	126.53
67	VL	502	GTP	C2-N1-C6	-2.97	119.72	125.11
69	KB	501	GDP	C6-C5-N7	2.97	135.70	130.29
67	OF	502	GTP	C2-N1-C6	-2.97	119.72	125.11
67	BM	501	GTP	C2-N1-C6	-2.97	119.72	125.11
67	NK	501	GTP	C2-N1-C6	-2.97	119.73	125.11
67	BG	501	GTP	C2-N1-C6	-2.96	119.73	125.11
67	QM	501	GTP	C2-N1-C6	-2.96	119.74	125.11
67	IE	501	GTP	C2-N1-C6	-2.96	119.74	125.11
67	VI	502	GTP	C2-N1-C6	-2.96	119.74	125.11
67	FK	501	GTP	C2-N1-C6	-2.96	119.75	125.11
67	GE	501	GTP	C2-N1-C6	-2.96	119.75	125.11
67	EM	501	GTP	C2-N1-C6	-2.96	119.75	125.11
67	TE	501	GTP	O6-C6-C5	-2.96	118.73	126.53
67	VL	502	GTP	N9-C4-N3	2.96	131.86	125.95
67	CD	502	GTP	C2-N1-C6	-2.95	119.75	125.11
67	OK	501	GTP	N9-C8-N7	-2.95	107.92	113.40
67	WC	501	GTP	C2-N1-C6	-2.95	119.75	125.11
67	AC	501	GTP	N9-C8-N7	-2.95	107.93	113.40
67	UM	501	GTP	C2-N1-C6	-2.95	119.76	125.11
67	TK	501	GTP	N9-C4-N3	2.95	131.85	125.95
67	TC	501	GTP	C2-N1-C6	-2.95	119.76	125.11
67	VC	501	GTP	N9-C4-N3	2.94	131.84	125.95
67	WI	501	GTP	C2-N1-C6	-2.94	119.77	125.11
67	AD	502	GTP	N9-C8-N7	-2.94	107.95	113.40
67	MI	501	GTP	N2-C2-N3	-2.94	113.94	119.67
67	UG	501	GTP	C2-N1-C6	-2.94	119.78	125.11
67	PK	501	GTP	C2-N1-C6	-2.94	119.78	125.11
67	DI	501	GTP	C2-N1-C6	-2.94	119.79	125.11
67	DF	502	GTP	C2-N1-C6	-2.94	119.79	125.11
67	JE	501	GTP	C2-N1-C6	-2.93	119.79	125.11
67	UE	501	GTP	C2-N1-C6	-2.93	119.79	125.11
67	GM	501	GTP	C2-N1-C6	-2.93	119.80	125.11
69	NB	501	GDP	O6-C6-C5	-2.93	118.80	126.53
67	SF	502	GTP	O6-C6-C5	-2.93	118.80	126.53
67	AK	501	GTP	O6-C6-C5	-2.93	118.80	126.53
67	PI	501	GTP	C2-N1-C6	-2.93	119.80	125.11
67	EC	501	GTP	C8-N7-C5	2.92	109.47	104.26
67	AH	502	GTP	N9-C8-N7	-2.92	107.98	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	KG	501	GTP	N9-C8-N7	-2.92	107.98	113.40
67	SF	502	GTP	C2-N1-C6	-2.92	119.81	125.11
67	DA	501	GTP	C8-N7-C5	2.92	109.46	104.26
67	II	501	GTP	C2-N1-C6	-2.92	119.82	125.11
67	NF	502	GTP	C2-N1-C6	-2.92	119.82	125.11
67	HC	501	GTP	C2-N1-C6	-2.92	119.82	125.11
67	PM	501	GTP	C2-N1-C6	-2.92	119.82	125.11
67	FE	501	GTP	N9-C8-N7	-2.92	107.99	113.40
67	GJ	502	GTP	C2-N1-C6	-2.92	119.82	125.11
67	MC	501	GTP	C2-N1-C6	-2.92	119.82	125.11
67	HG	502	GTP	C2-N1-C6	-2.92	119.82	125.11
69	MF	501	GDP	O4'-C1'-N9	2.91	114.96	108.36
67	VK	501	GTP	C2-N1-C6	-2.91	119.83	125.11
67	PA	501	GTP	C2-N1-C6	-2.91	119.83	125.11
67	PM	501	GTP	N9-C4-N3	2.91	131.78	125.95
67	RA	501	GTP	C2-N1-C6	-2.91	119.83	125.11
67	HK	501	GTP	C2-N1-C6	-2.91	119.83	125.11
67	HL	502	GTP	C2-N1-C6	-2.91	119.83	125.11
67	NI	501	GTP	C2-N1-C6	-2.91	119.83	125.11
67	SM	501	GTP	C2-N1-C6	-2.91	119.83	125.11
67	QK	501	GTP	N9-C8-N7	-2.91	108.01	113.40
67	AA	501	GTP	N9-C4-N3	2.91	131.76	125.95
67	BE	501	GTP	C2-N1-C6	-2.90	119.84	125.11
67	PG	501	GTP	C2-N1-C6	-2.90	119.84	125.11
67	AG	501	GTP	N9-C8-N7	-2.90	108.02	113.40
67	EE	501	GTP	N9-C8-N7	-2.90	108.02	113.40
67	CJ	502	GTP	C2-N1-C6	-2.90	119.85	125.11
67	OH	502	GTP	C2-N1-C6	-2.90	119.85	125.11
67	PA	501	GTP	N9-C8-N7	-2.90	108.03	113.40
67	CG	501	GTP	C2-N1-C6	-2.90	119.86	125.11
67	IG	501	GTP	C2-N1-C6	-2.90	119.86	125.11
67	SF	502	GTP	C5-C6-N1	2.90	120.62	113.25
67	HN	502	GTP	C2-N1-C6	-2.89	119.86	125.11
67	KM	501	GTP	N9-C4-N3	2.89	131.74	125.95
67	FE	501	GTP	C2-N1-C6	-2.89	119.87	125.11
67	IC	501	GTP	C2-N1-C6	-2.89	119.87	125.11
67	WE	501	GTP	C2-N1-C6	-2.89	119.87	125.11
67	BK	501	GTP	C2-N1-C6	-2.89	119.87	125.11
67	CH	502	GTP	C2-N1-C6	-2.89	119.87	125.11
69	RD	501	GDP	C6-C5-N7	2.89	135.55	130.29
67	HE	501	GTP	C2-N1-C6	-2.89	119.88	125.11
67	IM	501	GTP	C2-N1-C6	-2.89	119.88	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	EK	501	GTP	N9-C8-N7	-2.88	108.05	113.40
67	KC	501	GTP	C2-N1-C6	-2.88	119.88	125.11
67	LE	501	GTP	C2-N1-C6	-2.88	119.89	125.11
67	GC	501	GTP	C2-N1-C6	-2.88	119.89	125.11
67	FC	501	GTP	N9-C4-N3	2.88	131.71	125.95
67	RB	502	GTP	N9-C8-N7	-2.88	108.06	113.40
67	PM	501	GTP	N9-C8-N7	-2.88	108.06	113.40
67	AA	501	GTP	C2-N1-C6	-2.87	119.90	125.11
67	WM	501	GTP	C2-N1-C6	-2.87	119.90	125.11
67	QI	501	GTP	C2-N1-C6	-2.87	119.90	125.11
67	RM	501	GTP	C2-N1-C6	-2.87	119.90	125.11
67	CL	502	GTP	C2-N1-C6	-2.87	119.90	125.11
67	VG	501	GTP	C2-N1-C6	-2.87	119.90	125.11
67	O0	502	GTP	C2-N1-C6	-2.87	119.91	125.11
67	TM	501	GTP	C2-N1-C6	-2.87	119.91	125.11
67	VE	501	GTP	N9-C8-N7	-2.87	108.08	113.40
67	NA	502	GTP	C2-N1-C6	-2.87	119.91	125.11
67	OC	501	GTP	C2-N1-C6	-2.87	119.91	125.11
67	SA	501	GTP	C2-N1-C6	-2.87	119.91	125.11
67	LG	501	GTP	C2-N1-C6	-2.87	119.91	125.11
67	GG	501	GTP	C2-N1-C6	-2.86	119.92	125.11
67	QA	501	GTP	C2-N1-C6	-2.86	119.92	125.11
67	LI	501	GTP	C2-N1-C6	-2.86	119.93	125.11
69	OF	501	GDP	N2-C2-N1	2.86	122.79	116.76
67	QC	501	GTP	C2-N1-C6	-2.85	119.94	125.11
67	OE	501	GTP	C2-N1-C6	-2.85	119.94	125.11
67	EI	501	GTP	C2-N1-C6	-2.85	119.94	125.11
67	SC	501	GTP	C2-N1-C6	-2.85	119.94	125.11
67	IN	502	GTP	C2-N1-C6	-2.85	119.94	125.11
67	UC	501	GTP	C2-N1-C6	-2.85	119.95	125.11
67	RM	501	GTP	N9-C4-N3	2.85	131.65	125.95
67	AC	501	GTP	O3G-PG-O3B	2.85	114.18	104.64
67	KI	501	GTP	C2-N1-C6	-2.85	119.95	125.11
67	ME	501	GTP	C2-N1-C6	-2.85	119.95	125.11
67	SK	501	GTP	C2-N1-C6	-2.84	119.95	125.11
67	DE	501	GTP	C2-N1-C6	-2.84	119.95	125.11
67	LC	501	GTP	C2-N1-C6	-2.84	119.95	125.11
67	HI	501	GTP	C2-N1-C6	-2.84	119.96	125.11
69	SB	501	GDP	C2'-C3'-C4'	2.84	108.10	102.61
67	TK	501	GTP	N9-C8-N7	-2.84	108.13	113.40
67	LM	501	GTP	C2-N1-C6	-2.84	119.96	125.11
67	AA	501	GTP	O6-C6-C5	-2.84	119.04	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	AH	502	GTP	O6-C6-C5	-2.83	119.05	126.53
67	NE	501	GTP	C2-N1-C6	-2.83	119.97	125.11
67	O0	502	GTP	O2G-PG-O3B	2.83	114.13	104.64
67	RG	501	GTP	C2-N1-C6	-2.83	119.97	125.11
67	JG	501	GTP	C2-N1-C6	-2.83	119.98	125.11
67	RI	501	GTP	N9-C8-N7	-2.83	108.15	113.40
67	FM	501	GTP	C2-N1-C6	-2.83	119.98	125.11
67	MK	501	GTP	C2-N1-C6	-2.83	119.98	125.11
67	MM	501	GTP	C2-N1-C6	-2.83	119.98	125.11
67	JK	501	GTP	C2-N1-C6	-2.83	119.98	125.11
67	OH	502	GTP	N9-C8-N7	-2.83	108.16	113.40
67	UM	501	GTP	N9-C8-N7	-2.83	108.16	113.40
69	LH	501	GDP	N9-C4-N3	2.83	131.61	125.95
67	RB	502	GTP	C2-N1-C6	-2.82	119.99	125.11
67	RE	501	GTP	N9-C8-N7	-2.82	108.16	113.40
67	TI	501	GTP	O6-C6-C5	-2.82	119.08	126.53
67	RG	501	GTP	N9-C8-N7	-2.82	108.17	113.40
67	IK	501	GTP	C2-N1-C6	-2.82	120.00	125.11
67	OK	501	GTP	C5-C6-N1	2.82	120.43	113.25
67	FI	501	GTP	N9-C8-N7	-2.82	108.18	113.40
67	JM	501	GTP	C2-N1-C6	-2.82	120.00	125.11
67	LK	501	GTP	C2-N1-C6	-2.81	120.01	125.11
67	UG	501	GTP	N9-C8-N7	-2.81	108.18	113.40
67	EM	501	GTP	N9-C8-N7	-2.81	108.19	113.40
67	KG	501	GTP	C2-N1-C6	-2.81	120.01	125.11
67	RM	501	GTP	N9-C8-N7	-2.81	108.19	113.40
67	VC	501	GTP	N9-C8-N7	-2.81	108.19	113.40
67	JC	501	GTP	C2-N1-C6	-2.81	120.01	125.11
67	UK	501	GTP	C2-N1-C6	-2.81	120.01	125.11
67	FK	501	GTP	N9-C8-N7	-2.81	108.19	113.40
69	LB	501	GDP	C4-C5-N7	-2.81	106.22	110.67
67	TK	501	GTP	C2-N1-C6	-2.81	120.02	125.11
67	VG	501	GTP	N9-C8-N7	-2.81	108.19	113.40
67	PG	501	GTP	O6-C6-C5	-2.81	119.12	126.53
67	JI	501	GTP	C2-N1-C6	-2.80	120.03	125.11
67	KK	501	GTP	C2-N1-C6	-2.80	120.03	125.11
67	TE	501	GTP	N9-C8-N7	-2.80	108.21	113.40
67	AM	501	GTP	C2-N1-C6	-2.80	120.03	125.11
67	KM	501	GTP	C2-N1-C6	-2.80	120.04	125.11
67	MK	501	GTP	N9-C8-N7	-2.80	108.22	113.40
67	WK	501	GTP	C5-C6-N1	2.79	120.37	113.25
67	JM	501	GTP	N9-C8-N7	-2.79	108.22	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	FM	501	GTP	N9-C8-N7	-2.79	108.23	113.40
67	LK	501	GTP	N9-C8-N7	-2.79	108.23	113.40
67	KG	501	GTP	O6-C6-C5	-2.79	119.17	126.53
67	TC	501	GTP	N9-C8-N7	-2.79	108.23	113.40
69	NJ	501	GDP	C4-C5-N7	-2.79	106.26	110.67
67	EK	501	GTP	C8-N7-C5	2.79	109.22	104.26
67	KO	501	GTP	C2-N1-C6	-2.78	120.06	125.11
67	EE	501	GTP	C8-N7-C5	2.78	109.21	104.26
67	QM	501	GTP	O6-C6-C5	-2.78	119.20	126.53
67	AM	501	GTP	N9-C8-N7	-2.78	108.25	113.40
67	HK	501	GTP	N9-C8-N7	-2.78	108.25	113.40
67	UI	501	GTP	C2-N1-C6	-2.78	120.08	125.11
69	FF	501	GDP	C4-C5-N7	-2.77	106.28	110.67
67	KE	501	GTP	N9-C8-N7	-2.77	108.26	113.40
67	DM	501	GTP	N9-C8-N7	-2.77	108.26	113.40
67	JG	501	GTP	N9-C8-N7	-2.77	108.27	113.40
67	LC	501	GTP	N9-C8-N7	-2.77	108.27	113.40
67	IN	502	GTP	N9-C8-N7	-2.77	108.27	113.40
69	MB	501	GDP	C4-C5-N7	-2.77	106.29	110.67
67	GM	501	GTP	N9-C8-N7	-2.77	108.27	113.40
67	KM	501	GTP	N9-C8-N7	-2.76	108.27	113.40
67	ME	501	GTP	N9-C8-N7	-2.76	108.28	113.40
67	VE	501	GTP	C2-N1-C6	-2.76	120.10	125.11
67	EI	501	GTP	N9-C8-N7	-2.76	108.29	113.40
67	AH	502	GTP	C2-N1-C6	-2.76	120.11	125.11
67	MG	501	GTP	N9-C8-N7	-2.76	108.29	113.40
67	KG	501	GTP	N9-C4-N3	2.76	131.46	125.95
67	RK	501	GTP	C8-N7-C5	2.76	109.17	104.26
67	AK	501	GTP	C2-N1-C6	-2.75	120.12	125.11
67	UI	501	GTP	N9-C8-N7	-2.75	108.30	113.40
67	AD	502	GTP	C2-N1-C6	-2.75	120.12	125.11
67	VL	502	GTP	N9-C8-N7	-2.75	108.30	113.40
69	DH	501	GDP	O6-C6-C5	-2.75	119.27	126.53
67	TC	501	GTP	O6-C6-C5	-2.75	119.28	126.53
67	EG	501	GTP	C2-N1-C6	-2.74	120.13	125.11
67	KK	501	GTP	N9-C8-N7	-2.74	108.31	113.40
67	MC	501	GTP	N9-C8-N7	-2.74	108.31	113.40
67	GG	501	GTP	N9-C8-N7	-2.74	108.32	113.40
67	KO	501	GTP	N9-C8-N7	-2.74	108.32	113.40
69	LJ	501	GDP	O6-C6-C5	-2.74	119.31	126.53
67	QK	501	GTP	C5-C6-N1	2.73	120.21	113.25
67	NF	502	GTP	N9-C8-N7	-2.73	108.33	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	SK	501	GTP	N9-C8-N7	-2.73	108.33	113.40
69	MF	501	GDP	O6-C6-C5	-2.73	119.32	126.53
67	WG	501	GTP	C8-N7-C5	2.73	109.13	104.26
67	JC	501	GTP	N9-C8-N7	-2.73	108.34	113.40
67	LM	501	GTP	N9-C8-N7	-2.73	108.34	113.40
67	TG	501	GTP	N9-C8-N7	-2.73	108.34	113.40
67	IG	501	GTP	N9-C8-N7	-2.73	108.34	113.40
67	FG	501	GTP	C3'-C2'-C1'	2.73	106.62	101.46
69	ND	501	GDP	C4-C5-N7	-2.72	106.35	110.67
69	VD	501	GDP	C4-C5-N7	-2.72	106.36	110.67
67	AG	501	GTP	N2-C2-N1	2.72	122.51	116.76
67	AA	501	GTP	N9-C8-N7	-2.72	108.35	113.40
67	KI	501	GTP	N9-C8-N7	-2.72	108.35	113.40
67	BE	501	GTP	N9-C8-N7	-2.72	108.36	113.40
67	GE	501	GTP	N9-C8-N7	-2.72	108.36	113.40
67	AG	501	GTP	C2-N1-C6	-2.71	120.19	125.11
67	JC	501	GTP	N9-C4-N3	2.71	131.38	125.95
69	BB	501	GDP	C4-C5-N7	-2.71	106.37	110.67
69	MH	501	GDP	O6-C6-C5	-2.71	119.38	126.53
67	TM	501	GTP	N9-C8-N7	-2.71	108.38	113.40
67	WE	501	GTP	N9-C8-N7	-2.71	108.38	113.40
67	HE	501	GTP	N9-C8-N7	-2.71	108.38	113.40
67	DK	501	GTP	O4'-C1'-N9	2.71	114.49	108.36
67	QG	501	GTP	C8-N7-C5	2.71	109.08	104.26
67	AK	501	GTP	N2-C2-N1	2.70	122.46	116.76
67	HI	501	GTP	N9-C8-N7	-2.70	108.39	113.40
67	UC	501	GTP	N9-C8-N7	-2.70	108.39	113.40
69	RB	501	GDP	O6-C6-C5	-2.70	119.41	126.53
67	JK	501	GTP	N9-C8-N7	-2.70	108.40	113.40
67	WK	501	GTP	N9-C8-N7	-2.70	108.40	113.40
67	MI	501	GTP	C5-C6-N1	2.70	120.12	113.25
67	DC	501	GTP	N9-C8-N7	-2.70	108.40	113.40
67	HN	502	GTP	N9-C8-N7	-2.70	108.40	113.40
67	UE	501	GTP	N9-C8-N7	-2.69	108.41	113.40
67	IC	501	GTP	N9-C8-N7	-2.69	108.41	113.40
67	OC	501	GTP	N9-C8-N7	-2.69	108.41	113.40
67	GC	501	GTP	N9-C8-N7	-2.69	108.41	113.40
67	JI	501	GTP	N9-C8-N7	-2.69	108.41	113.40
67	VI	502	GTP	N9-C8-N7	-2.69	108.42	113.40
67	UM	501	GTP	N9-C4-N3	2.69	131.33	125.95
67	WI	501	GTP	N9-C8-N7	-2.68	108.42	113.40
69	PF	501	GDP	C4-C5-N7	-2.68	106.42	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	AD	502	GTP	N2-C2-N1	2.68	122.42	116.76
67	SC	501	GTP	N9-C8-N7	-2.68	108.43	113.40
67	MM	501	GTP	N9-C8-N7	-2.68	108.43	113.40
67	NB	502	GTP	N9-C8-N7	-2.68	108.43	113.40
67	SM	501	GTP	N9-C8-N7	-2.68	108.43	113.40
67	IM	501	GTP	N9-C8-N7	-2.68	108.43	113.40
67	VC	501	GTP	C8-N7-C5	2.68	109.03	104.26
67	QA	501	GTP	N9-C8-N7	-2.68	108.44	113.40
69	NF	501	GDP	C4-C5-N7	-2.68	106.43	110.67
67	VK	501	GTP	N9-C8-N7	-2.68	108.44	113.40
69	UL	501	GDP	C4-C5-N7	-2.67	106.43	110.67
67	BK	501	GTP	N9-C8-N7	-2.67	108.44	113.40
67	OE	501	GTP	N9-C8-N7	-2.67	108.44	113.40
67	BC	501	GTP	C5-C6-N1	2.67	120.06	113.25
69	KB	501	GDP	C4-C5-N7	-2.67	106.44	110.67
67	QC	501	GTP	N9-C8-N7	-2.67	108.45	113.40
67	AM	501	GTP	N9-C4-N3	2.67	131.29	125.95
67	AC	501	GTP	C2-N1-C6	-2.67	120.27	125.11
67	BI	501	GTP	C5-C6-N1	2.67	120.05	113.25
69	HJ	501	GDP	C4-C5-N7	-2.67	106.44	110.67
67	HG	502	GTP	N9-C8-N7	-2.67	108.46	113.40
67	RA	501	GTP	N9-C8-N7	-2.67	108.46	113.40
69	UH	501	GDP	C4-C5-N7	-2.66	106.45	110.67
67	GJ	502	GTP	N9-C8-N7	-2.66	108.46	113.40
67	UK	501	GTP	N9-C8-N7	-2.66	108.46	113.40
69	PD	501	GDP	C4-C5-N7	-2.66	106.45	110.67
69	OF	501	GDP	N9-C4-N3	2.66	131.28	125.95
69	PB	501	GDP	N2-C2-N3	-2.66	114.48	119.67
69	BH	501	GDP	C4-C5-N7	-2.66	106.46	110.67
67	TE	501	GTP	C5-C6-N1	2.66	120.02	113.25
69	MN	501	GDP	C4-C5-N7	-2.66	106.46	110.67
69	VF	501	GDP	C4-C5-N7	-2.65	106.47	110.67
67	BI	501	GTP	N9-C8-N7	-2.65	108.48	113.40
67	SE	501	GTP	C8-N7-C5	2.65	108.98	104.26
67	OF	502	GTP	O3G-PG-O3B	2.65	113.52	104.64
67	OK	501	GTP	C8-N7-C5	2.65	108.98	104.26
67	KC	501	GTP	N9-C8-N7	-2.65	108.49	113.40
69	VJ	501	GDP	C4-C5-N7	-2.65	106.47	110.67
67	LI	501	GTP	N9-C8-N7	-2.65	108.49	113.40
69	SB	501	GDP	O6-C6-C5	-2.65	119.54	126.53
69	RD	501	GDP	O6-C6-C5	-2.65	119.55	126.53
67	BG	501	GTP	N9-C8-N7	-2.65	108.49	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	HH	501	GDP	C4-C5-N7	-2.65	106.48	110.67
67	NK	501	GTP	N9-C8-N7	-2.64	108.50	113.40
67	VK	501	GTP	C5-C6-N1	2.64	119.98	113.25
67	BC	501	GTP	N9-C8-N7	-2.64	108.50	113.40
67	DF	502	GTP	O6-C6-C5	-2.64	119.55	126.53
67	HC	501	GTP	N9-C8-N7	-2.64	108.50	113.40
67	WK	501	GTP	C3'-C2'-C1'	2.64	106.46	101.46
67	QM	501	GTP	C3'-C2'-C1'	2.64	106.46	101.46
67	VG	501	GTP	C8-N7-C5	2.64	108.97	104.26
67	RI	501	GTP	C8-N7-C5	2.64	108.96	104.26
67	RK	501	GTP	N9-C4-N3	2.64	131.23	125.95
69	MJ	501	GDP	C4-C5-N7	-2.64	106.49	110.67
69	LF	501	GDP	O6-C6-C5	-2.64	119.57	126.53
67	AC	501	GTP	O6-C6-C5	-2.64	119.57	126.53
69	GL	501	GDP	C4-C5-N7	-2.63	106.50	110.67
67	IK	501	GTP	N9-C8-N7	-2.63	108.52	113.40
67	O0	502	GTP	N9-C8-N7	-2.63	108.52	113.40
69	BF	501	GDP	C2'-C3'-C4'	2.63	107.69	102.61
67	RE	501	GTP	C8-N7-C5	2.63	108.95	104.26
67	AG	501	GTP	O6-C6-C5	-2.63	119.59	126.53
67	LG	501	GTP	N9-C8-N7	-2.63	108.53	113.40
67	CJ	502	GTP	O3G-PG-O3B	2.63	113.44	104.64
69	GH	501	GDP	C4-C5-N7	-2.63	106.51	110.67
69	TH	501	GDP	C4-C5-N7	-2.63	106.51	110.67
67	WC	501	GTP	N9-C8-N7	-2.63	108.53	113.40
69	PL	501	GDP	C4-C5-N7	-2.63	106.51	110.67
69	ML	501	GDP	C6-C5-C4	-2.62	114.88	118.83
69	AH	501	GDP	C4-C5-N7	-2.62	106.51	110.67
67	FK	501	GTP	O6-C6-C5	-2.62	119.61	126.53
69	IJ	501	GDP	C4-C5-N7	-2.62	106.52	110.67
69	AF	501	GDP	C4-C5-N7	-2.62	106.52	110.67
67	II	501	GTP	N9-C8-N7	-2.62	108.54	113.40
69	PJ	501	GDP	O6-C6-C5	-2.62	119.62	126.53
69	GN	501	GDP	C4-C5-N7	-2.62	106.52	110.67
69	JD	501	GDP	C4-C5-N7	-2.62	106.52	110.67
69	TJ	501	GDP	O3B-PB-O3A	2.62	113.41	104.64
69	PB	501	GDP	O6-C6-C5	-2.61	119.63	126.53
69	OB	501	GDP	C4-C5-N7	-2.61	106.53	110.67
69	OJ	501	GDP	C4-C5-N7	-2.61	106.53	110.67
69	AL	501	GDP	C4-C5-N7	-2.61	106.53	110.67
69	RL	501	GDP	O6-C6-C5	-2.61	119.64	126.53
69	FJ	501	GDP	C4-C5-N7	-2.61	106.53	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	LL	501	GDP	C4-C5-N7	-2.61	106.53	110.67
69	HF	501	GDP	C4-C5-N7	-2.61	106.53	110.67
69	LN	501	GDP	C4-C5-N7	-2.61	106.53	110.67
67	QI	501	GTP	N9-C8-N7	-2.61	108.56	113.40
69	GF	501	GDP	C4-C5-N7	-2.61	106.53	110.67
69	PJ	501	GDP	O2A-PA-O3A	2.61	114.33	107.27
69	OH	501	GDP	C4-C5-N7	-2.61	106.53	110.67
67	LE	501	GTP	N9-C8-N7	-2.61	108.56	113.40
67	JE	501	GTP	N9-C8-N7	-2.61	108.56	113.40
67	UG	501	GTP	C5-C6-N1	2.61	119.89	113.25
69	KL	501	GDP	C4-C5-N7	-2.61	106.54	110.67
69	EB	501	GDP	C4-C5-N7	-2.61	106.54	110.67
67	DK	501	GTP	O2A-PA-O3A	2.61	114.32	107.27
67	IN	502	GTP	C8-N7-C5	2.61	108.90	104.26
67	MI	501	GTP	C8-N7-C5	2.61	108.90	104.26
69	GB	501	GDP	C4-C5-N7	-2.61	106.54	110.67
69	VB	501	GDP	C4-C5-N7	-2.61	106.54	110.67
69	TD	501	GDP	C4-C5-N7	-2.60	106.54	110.67
69	IH	501	GDP	C4-C5-N7	-2.60	106.55	110.67
69	HN	501	GDP	C4-C5-N7	-2.60	106.55	110.67
69	HB	501	GDP	C4-C5-N7	-2.60	106.55	110.67
67	RG	501	GTP	C8-N7-C5	2.60	108.89	104.26
69	LF	501	GDP	C4-C5-N7	-2.60	106.55	110.67
67	CB	502	GTP	C5-C6-N1	2.60	119.87	113.25
67	PA	501	GTP	C5-C6-N1	2.60	119.87	113.25
67	CD	502	GTP	N9-C8-N7	-2.60	108.58	113.40
67	BE	501	GTP	C8-N7-C5	2.60	108.89	104.26
67	EM	501	GTP	O6-C6-C5	-2.60	119.67	126.53
69	KN	501	GDP	C4-C5-N7	-2.60	106.55	110.67
67	HL	502	GTP	N9-C8-N7	-2.60	108.58	113.40
67	JC	501	GTP	C8-N7-C5	2.60	108.89	104.26
67	FG	501	GTP	C5-C6-N1	2.60	119.86	113.25
67	GE	501	GTP	C5-C6-N1	2.60	119.86	113.25
69	EH	501	GDP	C4-C5-N7	-2.59	106.56	110.67
67	VI	502	GTP	C5-C6-N1	2.59	119.85	113.25
67	JG	501	GTP	C8-N7-C5	2.59	108.88	104.26
69	OL	501	GDP	C4-C5-N7	-2.59	106.56	110.67
67	VE	501	GTP	C8-N7-C5	2.59	108.88	104.26
67	OH	502	GTP	C5-C6-N1	2.59	119.85	113.25
69	AD	501	GDP	C4-C5-N7	-2.59	106.57	110.67
69	WD	501	GDP	C4-C5-N7	-2.59	106.57	110.67
67	WI	501	GTP	C5-C6-N1	2.59	119.84	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	HE	501	GTP	O6-C6-C5	-2.59	119.70	126.53
67	AM	501	GTP	O6-C6-C5	-2.59	119.70	126.53
69	BL	501	GDP	C4-C5-N7	-2.59	106.57	110.67
69	WH	501	GDP	C4-C5-N7	-2.59	106.57	110.67
67	NF	502	GTP	C8-N7-C5	2.59	108.87	104.26
69	BJ	501	GDP	C4-C5-N7	-2.59	106.57	110.67
69	CB	501	GDP	C4-C5-N7	-2.59	106.57	110.67
69	AB	501	GDP	C4-C5-N7	-2.59	106.57	110.67
67	WC	501	GTP	C5-C6-N1	2.59	119.83	113.25
67	DC	501	GTP	C5-C6-N1	2.58	119.83	113.25
67	UI	501	GTP	C8-N7-C5	2.58	108.86	104.26
67	PC	501	GTP	C5-C6-N1	2.58	119.83	113.25
67	MI	501	GTP	N1-C2-N3	-2.58	118.59	123.32
69	VN	501	GDP	C4-C5-N7	-2.58	106.58	110.67
67	DI	501	GTP	C5-C6-N1	2.58	119.83	113.25
67	RB	502	GTP	O6-C6-C5	-2.58	119.72	126.53
69	CJ	501	GDP	C4-C5-N7	-2.58	106.58	110.67
67	KE	501	GTP	C8-N7-C5	2.58	108.86	104.26
69	TL	501	GDP	C4-C5-N7	-2.58	106.58	110.67
67	VL	502	GTP	C8-N7-C5	2.58	108.86	104.26
69	KF	501	GDP	C4-C5-N7	-2.58	106.58	110.67
67	EC	501	GTP	C5-C6-N1	2.58	119.82	113.25
67	NE	501	GTP	N9-C8-N7	-2.58	108.62	113.40
69	KH	501	GDP	C4-C5-N7	-2.58	106.58	110.67
67	NB	502	GTP	C5-C6-N1	2.58	119.81	113.25
67	NK	501	GTP	C8-N7-C5	2.58	108.85	104.26
69	BF	501	GDP	C4-C5-N7	-2.58	106.59	110.67
69	CH	501	GDP	C4-C5-N7	-2.58	106.59	110.67
69	IN	501	GDP	C4-C5-N7	-2.58	106.59	110.67
69	GD	501	GDP	C4-C5-N7	-2.57	106.59	110.67
69	NL	501	GDP	C4-C5-N7	-2.57	106.59	110.67
67	BG	501	GTP	C8-N7-C5	2.57	108.84	104.26
69	PJ	501	GDP	C4-C5-N7	-2.57	106.59	110.67
69	VH	501	GDP	C4-C5-N7	-2.57	106.59	110.67
67	JM	501	GTP	C8-N7-C5	2.57	108.84	104.26
67	AD	502	GTP	O6-C6-C5	-2.57	119.75	126.53
69	HL	501	GDP	C4-C5-N7	-2.57	106.60	110.67
69	OD	501	GDP	C4-C5-N7	-2.57	106.60	110.67
67	PA	501	GTP	C8-N7-C5	2.57	108.84	104.26
67	BE	501	GTP	C5-C6-N1	2.57	119.79	113.25
67	KG	501	GTP	C5-C6-N1	2.57	119.79	113.25
69	DB	501	GDP	C4-C5-N7	-2.57	106.60	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	UN	501	GDP	C4-C5-N7	-2.57	106.60	110.67
67	IM	501	GTP	C8-N7-C5	2.57	108.83	104.26
67	BA	501	GTP	N9-C8-N7	-2.57	108.64	113.40
67	RI	501	GTP	C5-C4-N9	2.57	110.25	105.66
67	UM	501	GTP	C8-N7-C5	2.57	108.83	104.26
69	IL	501	GDP	C4-C5-N7	-2.57	106.60	110.67
67	FI	501	GTP	C8-N7-C5	2.57	108.83	104.26
67	OH	502	GTP	C8-N7-C5	2.57	108.83	104.26
67	HK	501	GTP	C5-C6-N1	2.56	119.78	113.25
69	IF	501	GDP	C4-C5-N7	-2.56	106.61	110.67
67	PC	501	GTP	C3'-C2'-C1'	2.56	106.31	101.46
67	HC	501	GTP	C5-C6-N1	2.56	119.78	113.25
67	SE	501	GTP	C5-C6-N1	2.56	119.78	113.25
67	BM	501	GTP	N9-C8-N7	-2.56	108.65	113.40
69	ID	501	GDP	C4-C5-N7	-2.56	106.61	110.67
67	GM	501	GTP	C5-C6-N1	2.56	119.77	113.25
69	KJ	501	GDP	C4-C5-N7	-2.56	106.61	110.67
67	SM	501	GTP	O6-C6-C5	-2.56	119.78	126.53
67	BK	501	GTP	C5-C6-N1	2.56	119.77	113.25
67	GI	501	GTP	C5-C6-N1	2.56	119.77	113.25
67	WE	501	GTP	C5-C6-N1	2.56	119.76	113.25
67	IC	501	GTP	C5-C6-N1	2.56	119.76	113.25
67	HK	501	GTP	O6-C6-C5	-2.56	119.79	126.53
67	DK	501	GTP	C8-N7-C5	2.56	108.81	104.26
67	GE	501	GTP	C8-N7-C5	2.56	108.81	104.26
67	FE	501	GTP	C8-N7-C5	2.55	108.81	104.26
67	PI	501	GTP	C5-C6-N1	2.55	119.75	113.25
69	TJ	501	GDP	C4-C5-N7	-2.55	106.63	110.67
67	KK	501	GTP	C8-N7-C5	2.55	108.81	104.26
67	SA	501	GTP	N9-C8-N7	-2.55	108.67	113.40
67	AH	502	GTP	N2-C2-N1	2.55	122.15	116.76
67	PM	501	GTP	C8-N7-C5	2.55	108.81	104.26
67	VI	502	GTP	C8-N7-C5	2.55	108.81	104.26
67	AD	502	GTP	C8-N7-C5	2.55	108.80	104.26
67	NB	502	GTP	C8-N7-C5	2.55	108.80	104.26
67	IG	501	GTP	C8-N7-C5	2.55	108.80	104.26
67	FM	501	GTP	C8-N7-C5	2.55	108.80	104.26
67	FC	501	GTP	N9-C8-N7	-2.55	108.67	113.40
67	GC	501	GTP	C5-C6-N1	2.55	119.74	113.25
67	QM	501	GTP	C5-C6-N1	2.55	119.74	113.25
67	OE	501	GTP	C8-N7-C5	2.55	108.80	104.26
67	CD	502	GTP	C8-N7-C5	2.55	108.80	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	UC	501	GTP	C8-N7-C5	2.55	108.80	104.26
67	MG	501	GTP	C8-N7-C5	2.55	108.80	104.26
69	NH	501	GDP	O6-C6-C5	-2.55	119.81	126.53
69	CD	501	GDP	C4-C5-N7	-2.54	106.64	110.67
67	VL	502	GTP	C5-C6-N1	2.54	119.73	113.25
67	EE	501	GTP	C5-C6-N1	2.54	119.73	113.25
67	EM	501	GTP	C5-C6-N1	2.54	119.73	113.25
67	GC	501	GTP	C8-N7-C5	2.54	108.79	104.26
67	RB	502	GTP	C8-N7-C5	2.54	108.79	104.26
67	DC	501	GTP	O6-C6-C5	-2.54	119.82	126.53
67	DM	501	GTP	C8-N7-C5	2.54	108.79	104.26
67	NK	501	GTP	C5-C6-N1	2.54	119.72	113.25
69	BD	501	GDP	C4-C5-N7	-2.54	106.64	110.67
67	SM	501	GTP	C3'-C2'-C1'	2.54	106.27	101.46
67	NF	502	GTP	C5-C6-N1	2.54	119.72	113.25
67	AA	501	GTP	C5-C6-N1	2.54	119.72	113.25
67	CD	502	GTP	C5-C6-N1	2.54	119.72	113.25
67	EI	501	GTP	C8-N7-C5	2.54	108.79	104.26
67	LK	501	GTP	C8-N7-C5	2.54	108.78	104.26
67	QE	501	GTP	C4-C5-N7	-2.54	106.64	110.67
67	FI	501	GTP	C5-C6-N1	2.54	119.72	113.25
67	KI	501	GTP	C8-N7-C5	2.54	108.78	104.26
67	EG	501	GTP	N9-C8-N7	-2.54	108.69	113.40
67	CG	501	GTP	C5-C6-N1	2.54	119.71	113.25
67	BM	501	GTP	C8-N7-C5	2.54	108.78	104.26
67	SI	501	GTP	O6-C6-C5	-2.54	119.83	126.53
67	HI	501	GTP	C8-N7-C5	2.54	108.78	104.26
69	O0	501	GDP	C4-C5-N7	-2.54	106.65	110.67
69	UJ	501	GDP	C4-C5-N7	-2.54	106.65	110.67
69	VL	501	GDP	C4-C5-N7	-2.54	106.65	110.67
67	GJ	502	GTP	C8-N7-C5	2.54	108.78	104.26
67	DI	501	GTP	N9-C8-N7	-2.54	108.70	113.40
67	NI	501	GTP	N9-C8-N7	-2.54	108.70	113.40
67	IG	501	GTP	C5-C6-N1	2.54	119.71	113.25
67	HL	502	GTP	C8-N7-C5	2.53	108.78	104.26
69	EN	501	GDP	C4-C5-N7	-2.53	106.65	110.67
67	CJ	502	GTP	N9-C8-N7	-2.53	108.70	113.40
67	AH	502	GTP	C5-C6-N1	2.53	119.70	113.25
67	AC	501	GTP	C8-N7-C5	2.53	108.77	104.26
69	MH	501	GDP	C4-C5-N7	-2.53	106.66	110.67
67	GM	501	GTP	C8-N7-C5	2.53	108.77	104.26
67	HG	502	GTP	C8-N7-C5	2.53	108.77	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	AK	501	GTP	C5-C6-N1	2.53	119.70	113.25
69	JB	501	GDP	C4-C5-N7	-2.53	106.66	110.67
67	II	501	GTP	C8-N7-C5	2.53	108.77	104.26
67	RA	501	GTP	C5-C6-N1	2.53	119.70	113.25
69	JH	501	GDP	C4-C5-N7	-2.53	106.66	110.67
69	LJ	501	GDP	C4-C5-N7	-2.53	106.66	110.67
67	WM	501	GTP	N9-C8-N7	-2.53	108.71	113.40
67	GG	501	GTP	C8-N7-C5	2.53	108.77	104.26
67	GJ	502	GTP	C5-C6-N1	2.53	119.69	113.25
67	BM	501	GTP	C5-C6-N1	2.53	119.69	113.25
67	EM	501	GTP	C8-N7-C5	2.53	108.77	104.26
67	HE	501	GTP	C5-C6-N1	2.53	119.69	113.25
67	KE	501	GTP	C5-C6-N1	2.53	119.69	113.25
69	HD	501	GDP	C4-C5-N7	-2.53	106.67	110.67
67	OC	501	GTP	C5-C6-N1	2.53	119.69	113.25
67	SK	501	GTP	C5-C6-N1	2.53	119.68	113.25
67	LC	501	GTP	C5-C6-N1	2.52	119.68	113.25
69	GJ	501	GDP	C4-C5-N7	-2.52	106.67	110.67
69	JN	501	GDP	C4-C5-N7	-2.52	106.67	110.67
67	KI	501	GTP	C5-C6-N1	2.52	119.68	113.25
67	BA	501	GTP	C5-C6-N1	2.52	119.67	113.25
67	AK	501	GTP	C8-N7-C5	2.52	108.75	104.26
67	IN	502	GTP	C5-C6-N1	2.52	119.67	113.25
67	TI	501	GTP	N9-C8-N7	-2.52	108.72	113.40
69	QB	501	GDP	O6-C6-C5	-2.52	119.88	126.53
67	JE	501	GTP	C5-C6-N1	2.52	119.67	113.25
69	AJ	501	GDP	C4-C5-N7	-2.52	106.67	110.67
67	AD	502	GTP	C5-C6-N1	2.52	119.67	113.25
67	UG	501	GTP	C8-N7-C5	2.52	108.75	104.26
67	EC	501	GTP	O6-C6-C5	-2.52	119.88	126.53
67	UE	501	GTP	C5-C6-N1	2.52	119.67	113.25
67	AH	502	GTP	N9-C4-N3	2.52	130.99	125.95
67	MI	501	GTP	C6-C5-N7	2.52	134.88	130.29
67	HN	502	GTP	C5-C6-N1	2.52	119.66	113.25
67	BG	501	GTP	C5-C6-N1	2.52	119.66	113.25
67	KM	501	GTP	C8-N7-C5	2.52	108.75	104.26
67	OC	501	GTP	C8-N7-C5	2.52	108.75	104.26
67	QA	501	GTP	C8-N7-C5	2.52	108.74	104.26
67	LG	501	GTP	C8-N7-C5	2.52	108.74	104.26
67	TK	501	GTP	C8-N7-C5	2.52	108.74	104.26
67	ME	501	GTP	C8-N7-C5	2.52	108.74	104.26
67	TM	501	GTP	C8-N7-C5	2.52	108.74	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	CJ	502	GTP	C5-C6-N1	2.52	119.66	113.25
67	GI	501	GTP	C8-N7-C5	2.51	108.74	104.26
67	HC	501	GTP	C8-N7-C5	2.51	108.74	104.26
67	IE	501	GTP	N9-C8-N7	-2.51	108.74	113.40
67	KG	501	GTP	C8-N7-C5	2.51	108.74	104.26
67	O0	502	GTP	C8-N7-C5	2.51	108.74	104.26
67	WE	501	GTP	C8-N7-C5	2.51	108.74	104.26
67	DM	501	GTP	C5-C6-N1	2.51	119.65	113.25
67	PG	501	GTP	C5-C6-N1	2.51	119.65	113.25
67	SM	501	GTP	C5-C6-N1	2.51	119.65	113.25
67	LM	501	GTP	C8-N7-C5	2.51	108.73	104.26
67	WG	501	GTP	N9-C8-N7	-2.51	108.74	113.40
69	TB	501	GDP	C4-C5-N7	-2.51	106.69	110.67
67	WC	501	GTP	C8-N7-C5	2.51	108.73	104.26
67	FK	501	GTP	C5-C6-N1	2.51	119.64	113.25
67	GM	501	GTP	O6-C6-C5	-2.51	119.91	126.53
67	VC	501	GTP	C5-C6-N1	2.51	119.64	113.25
69	FH	501	GDP	C4-C5-N7	-2.51	106.69	110.67
67	OF	502	GTP	C5-C6-N1	2.51	119.64	113.25
67	AH	502	GTP	C8-N7-C5	2.51	108.73	104.26
67	UK	501	GTP	C8-N7-C5	2.51	108.73	104.26
69	WF	501	GDP	C4-C5-N7	-2.51	106.70	110.67
67	JE	501	GTP	C8-N7-C5	2.51	108.73	104.26
67	RM	501	GTP	C8-N7-C5	2.51	108.73	104.26
67	AM	501	GTP	C8-N7-C5	2.51	108.73	104.26
67	MI	501	GTP	C4-C5-N7	-2.51	106.70	110.67
69	JF	501	GDP	C4-C5-N7	-2.51	106.70	110.67
67	LC	501	GTP	C8-N7-C5	2.51	108.72	104.26
67	QA	501	GTP	C5-C6-N1	2.51	119.63	113.25
67	HN	502	GTP	C8-N7-C5	2.51	108.72	104.26
67	SC	501	GTP	C8-N7-C5	2.50	108.72	104.26
67	TC	501	GTP	C5-C6-N1	2.50	119.62	113.25
67	GG	501	GTP	C5-C6-N1	2.50	119.62	113.25
67	RB	502	GTP	C5-C6-N1	2.50	119.62	113.25
67	RE	501	GTP	C5-C6-N1	2.50	119.62	113.25
67	UC	501	GTP	C5-C6-N1	2.50	119.62	113.25
67	VG	501	GTP	C5-C6-N1	2.50	119.62	113.25
67	LK	501	GTP	C5-C6-N1	2.50	119.62	113.25
67	BI	501	GTP	C8-N7-C5	2.50	108.72	104.26
67	KC	501	GTP	C8-N7-C5	2.50	108.71	104.26
67	MK	501	GTP	C8-N7-C5	2.50	108.71	104.26
67	FE	501	GTP	O6-C6-C5	-2.50	119.94	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	VE	501	GTP	N9-C4-N3	2.50	130.95	125.95
67	HI	501	GTP	C5-C6-N1	2.50	119.61	113.25
67	HL	502	GTP	C5-C6-N1	2.50	119.61	113.25
67	II	501	GTP	C5-C6-N1	2.50	119.61	113.25
67	MC	501	GTP	C5-C6-N1	2.50	119.61	113.25
69	QL	501	GDP	C5-C6-N1	2.50	119.61	113.25
67	FI	501	GTP	O6-C6-C5	-2.50	119.94	126.53
67	FK	501	GTP	C8-N7-C5	2.50	108.71	104.26
69	WL	501	GDP	C4-C5-N7	-2.50	106.71	110.67
67	JM	501	GTP	C5-C6-N1	2.50	119.61	113.25
69	FN	501	GDP	C4-C5-N7	-2.50	106.71	110.67
69	UB	501	GDP	C4-C5-N7	-2.50	106.72	110.67
67	IE	501	GTP	C8-N7-C5	2.50	108.70	104.26
67	O0	502	GTP	C5-C6-N1	2.49	119.60	113.25
67	UK	501	GTP	C5-C6-N1	2.49	119.60	113.25
67	FG	501	GTP	O6-C6-C5	-2.49	119.95	126.53
67	IM	501	GTP	C5-C6-N1	2.49	119.60	113.25
67	AG	501	GTP	C8-N7-C5	2.49	108.70	104.26
67	DC	501	GTP	C8-N7-C5	2.49	108.70	104.26
67	RI	501	GTP	C6-C5-N7	2.49	134.82	130.29
67	QG	501	GTP	C5-C6-N1	2.49	119.59	113.25
67	JI	501	GTP	C5-C6-N1	2.49	119.59	113.25
67	CG	501	GTP	N9-C8-N7	-2.49	108.78	113.40
67	BK	501	GTP	C8-N7-C5	2.49	108.70	104.26
67	JG	501	GTP	C5-C6-N1	2.49	119.59	113.25
67	MC	501	GTP	C8-N7-C5	2.49	108.69	104.26
67	KC	501	GTP	C5-C6-N1	2.49	119.59	113.25
67	HN	502	GTP	O3G-PG-O3B	2.49	112.98	104.64
67	QC	501	GTP	O6-C6-C5	-2.49	119.96	126.53
67	GI	501	GTP	N9-C8-N7	-2.49	108.79	113.40
67	JI	501	GTP	C8-N7-C5	2.49	108.69	104.26
67	SK	501	GTP	C8-N7-C5	2.49	108.69	104.26
67	WM	501	GTP	C5-C6-N1	2.49	119.59	113.25
67	MM	501	GTP	C8-N7-C5	2.49	108.69	104.26
67	NF	502	GTP	O6-C6-C5	-2.49	119.97	126.53
67	UE	501	GTP	O6-C6-C5	-2.49	119.97	126.53
69	LB	501	GDP	N2-C2-N1	2.49	122.01	116.76
67	NE	501	GTP	C8-N7-C5	2.49	108.69	104.26
69	OF	501	GDP	C2-N1-C6	-2.49	120.60	125.11
67	JC	501	GTP	C5-C6-N1	2.49	119.58	113.25
67	IK	501	GTP	C8-N7-C5	2.49	108.69	104.26
67	LG	501	GTP	C5-C6-N1	2.49	119.58	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	FD	501	GDP	C4-C5-N7	-2.49	106.73	110.67
67	AC	501	GTP	C5-C6-N1	2.49	119.58	113.25
67	AG	501	GTP	C5-C6-N1	2.49	119.58	113.25
67	OE	501	GTP	C5-C6-N1	2.49	119.58	113.25
67	SC	501	GTP	C5-C6-N1	2.49	119.58	113.25
67	NI	501	GTP	C8-N7-C5	2.48	108.69	104.26
67	RG	501	GTP	C5-C6-N1	2.48	119.58	113.25
67	UI	501	GTP	C5-C6-N1	2.48	119.58	113.25
67	LE	501	GTP	C5-C6-N1	2.48	119.58	113.25
67	WI	501	GTP	C8-N7-C5	2.48	108.69	104.26
67	EK	501	GTP	C5-C6-N1	2.48	119.58	113.25
67	BA	501	GTP	C8-N7-C5	2.48	108.68	104.26
67	UE	501	GTP	C8-N7-C5	2.48	108.68	104.26
67	AM	501	GTP	C5-C6-N1	2.48	119.57	113.25
67	DE	501	GTP	C5-C6-N1	2.48	119.57	113.25
67	LI	501	GTP	C8-N7-C5	2.48	108.68	104.26
67	TI	501	GTP	O4'-C1'-N9	-2.48	102.73	108.36
67	BA	501	GTP	O6-C6-C5	-2.48	119.98	126.53
67	EE	501	GTP	O6-C6-C5	-2.48	119.98	126.53
69	IB	501	GDP	C6-C5-N7	2.48	134.81	130.29
67	IC	501	GTP	C8-N7-C5	2.48	108.68	104.26
69	QD	501	GDP	C2'-C1'-N9	-2.48	106.34	113.25
67	QI	501	GTP	C5-C6-N1	2.48	119.57	113.25
69	SL	501	GDP	C4-C5-N7	-2.48	106.74	110.67
67	KO	501	GTP	C5-C6-N1	2.48	119.56	113.25
69	EL	501	GDP	C4-C5-N7	-2.48	106.74	110.67
67	JK	501	GTP	C5-C6-N1	2.48	119.56	113.25
67	QC	501	GTP	C5-C6-N1	2.48	119.56	113.25
69	SH	501	GDP	C4-C5-N7	-2.48	106.74	110.67
67	CH	502	GTP	C5-C6-N1	2.48	119.56	113.25
67	CB	502	GTP	N9-C8-N7	-2.48	108.81	113.40
67	SC	501	GTP	O6-C6-C5	-2.48	119.99	126.53
67	HG	502	GTP	C5-C6-N1	2.48	119.56	113.25
67	UM	501	GTP	C5-C6-N1	2.48	119.56	113.25
67	LI	501	GTP	C5-C6-N1	2.48	119.56	113.25
67	ME	501	GTP	C5-C6-N1	2.48	119.56	113.25
67	TM	501	GTP	O6-C6-C5	-2.48	120.00	126.53
69	EF	501	GDP	C4-C5-N7	-2.47	106.75	110.67
67	JK	501	GTP	C8-N7-C5	2.47	108.67	104.26
67	NA	502	GTP	O6-C6-C5	-2.47	120.00	126.53
67	NE	501	GTP	C5-C6-N1	2.47	119.55	113.25
69	ED	501	GDP	C4-C5-N7	-2.47	106.75	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	KK	501	GTP	C5-C6-N1	2.47	119.55	113.25
67	SK	501	GTP	O6-C6-C5	-2.47	120.00	126.53
67	PK	501	GTP	C5-C6-N1	2.47	119.55	113.25
69	KD	501	GDP	C4-C5-N7	-2.47	106.75	110.67
67	FM	501	GTP	C5-C6-N1	2.47	119.54	113.25
69	FL	501	GDP	C4-C5-N7	-2.47	106.75	110.67
67	SM	501	GTP	C8-N7-C5	2.47	108.66	104.26
69	SD	501	GDP	C4-C5-N7	-2.47	106.76	110.67
67	IE	501	GTP	C5-C6-N1	2.47	119.53	113.25
67	LM	501	GTP	C5-C6-N1	2.47	119.53	113.25
69	ML	501	GDP	C1'-N9-C8	2.47	133.74	126.73
67	DK	501	GTP	C5-C6-N1	2.47	119.53	113.25
69	WN	501	GDP	C4-C5-N7	-2.47	106.76	110.67
67	TK	501	GTP	C5-C6-N1	2.47	119.53	113.25
67	FE	501	GTP	C5-C6-N1	2.47	119.53	113.25
67	MM	501	GTP	C5-C6-N1	2.46	119.53	113.25
67	KC	501	GTP	O6-C6-C5	-2.46	120.03	126.53
67	MK	501	GTP	C5-C6-N1	2.46	119.52	113.25
67	LM	501	GTP	O6-C6-C5	-2.46	120.03	126.53
69	WB	501	GDP	C4-C5-N7	-2.46	106.77	110.67
69	DJ	501	GDP	O6-C6-C5	-2.46	120.03	126.53
67	LE	501	GTP	C8-N7-C5	2.46	108.65	104.26
67	IK	501	GTP	C5-C6-N1	2.46	119.52	113.25
67	TM	501	GTP	C5-C6-N1	2.46	119.52	113.25
67	LG	501	GTP	O6-C6-C5	-2.46	120.03	126.53
67	KO	501	GTP	C8-N7-C5	2.46	108.64	104.26
67	TC	501	GTP	C8-N7-C5	2.46	108.64	104.26
69	PH	501	GDP	C4-C5-N7	-2.46	106.77	110.67
67	MK	501	GTP	O6-C6-C5	-2.46	120.04	126.53
67	KM	501	GTP	C5-C6-N1	2.46	119.51	113.25
67	NA	502	GTP	C5-C6-N1	2.46	119.51	113.25
67	NI	501	GTP	C5-C6-N1	2.46	119.51	113.25
67	GE	501	GTP	O6-C6-C5	-2.46	120.05	126.53
67	UG	501	GTP	O6-C6-C5	-2.46	120.05	126.53
67	WI	501	GTP	O6-C6-C5	-2.46	120.05	126.53
69	UD	501	GDP	C4-C5-N7	-2.46	106.78	110.67
67	CJ	502	GTP	C8-N7-C5	2.46	108.64	104.26
69	QL	501	GDP	O6-C6-C5	-2.46	120.05	126.53
67	GJ	502	GTP	O6-C6-C5	-2.45	120.05	126.53
67	DF	502	GTP	C5-C6-N1	2.45	119.50	113.25
69	VJ	501	GDP	O3B-PB-O3A	2.45	112.86	104.64
67	HK	501	GTP	C8-N7-C5	2.45	108.63	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	FB	501	GDP	C4-C5-N7	-2.45	106.79	110.67
67	NE	501	GTP	O6-C6-C5	-2.45	120.06	126.53
67	RA	501	GTP	C8-N7-C5	2.45	108.63	104.26
67	KE	501	GTP	O6-C6-C5	-2.45	120.06	126.53
69	QJ	501	GDP	C3'-C2'-C1'	2.45	106.10	101.46
69	TF	501	GDP	C4-C5-N7	-2.45	106.79	110.67
67	RM	501	GTP	O6-C6-C5	-2.45	120.07	126.53
67	LK	501	GTP	O2A-PA-O3A	2.45	113.89	107.27
69	JL	501	GDP	C4-C5-N7	-2.45	106.79	110.67
67	LK	501	GTP	O6-C6-C5	-2.45	120.08	126.53
67	JE	501	GTP	O6-C6-C5	-2.45	120.08	126.53
67	EI	501	GTP	C5-C6-N1	2.45	119.48	113.25
67	DI	501	GTP	C8-N7-C5	2.45	108.62	104.26
67	SF	502	GTP	N9-C8-N7	-2.45	108.87	113.40
67	PD	502	GTP	O6-C6-C5	-2.44	120.08	126.53
69	SJ	501	GDP	C4-C5-N7	-2.44	106.80	110.67
67	KK	501	GTP	O6-C6-C5	-2.44	120.08	126.53
67	VK	501	GTP	O6-C6-C5	-2.44	120.08	126.53
67	RM	501	GTP	C5-C6-N1	2.44	119.47	113.25
67	JC	501	GTP	O6-C6-C5	-2.44	120.09	126.53
67	LC	501	GTP	O6-C6-C5	-2.44	120.09	126.53
69	MB	501	GDP	O6-C6-C5	-2.44	120.09	126.53
67	QI	501	GTP	C8-N7-C5	2.44	108.60	104.26
67	HE	501	GTP	C8-N7-C5	2.44	108.60	104.26
67	BM	501	GTP	O6-C6-C5	-2.44	120.10	126.53
67	TK	501	GTP	O6-C6-C5	-2.44	120.10	126.53
67	DA	501	GTP	C5-C6-N1	2.44	119.46	113.25
67	MC	501	GTP	O6-C6-C5	-2.44	120.10	126.53
67	PM	501	GTP	C5-C6-N1	2.44	119.45	113.25
67	RK	501	GTP	O6-C6-C5	-2.44	120.10	126.53
67	WG	501	GTP	O6-C6-C5	-2.44	120.10	126.53
67	EK	501	GTP	O6-C6-C5	-2.44	120.10	126.53
67	PC	501	GTP	N9-C8-N7	-2.44	108.89	113.40
69	LL	501	GDP	O6-C6-C5	-2.43	120.11	126.53
67	NB	502	GTP	O6-C6-C5	-2.43	120.11	126.53
67	QC	501	GTP	C8-N7-C5	2.43	108.59	104.26
67	LE	501	GTP	O6-C6-C5	-2.43	120.11	126.53
69	WJ	501	GDP	C4-C5-N7	-2.43	106.81	110.67
67	BC	501	GTP	C8-N7-C5	2.43	108.59	104.26
67	WM	501	GTP	O6-C6-C5	-2.43	120.12	126.53
67	GG	501	GTP	O6-C6-C5	-2.43	120.12	126.53
67	NI	501	GTP	O6-C6-C5	-2.43	120.12	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	RG	501	GTP	O6-C6-C5	-2.43	120.12	126.53
67	DA	501	GTP	N9-C8-N7	-2.43	108.89	113.40
67	MM	501	GTP	O6-C6-C5	-2.43	120.12	126.53
69	ED	501	GDP	C3'-C2'-C1'	2.43	106.06	101.46
69	QF	501	GDP	C4-C5-N7	-2.43	106.82	110.67
67	RE	501	GTP	O6-C6-C5	-2.43	120.12	126.53
67	ME	501	GTP	O6-C6-C5	-2.43	120.13	126.53
67	WM	501	GTP	C8-N7-C5	2.43	108.58	104.26
67	WK	501	GTP	O6-C6-C5	-2.43	120.13	126.53
67	NA	502	GTP	N9-C8-N7	-2.42	108.91	113.40
67	HN	502	GTP	O6-C6-C5	-2.42	120.14	126.53
67	PG	501	GTP	N9-C8-N7	-2.42	108.91	113.40
67	PA	501	GTP	O6-C6-C5	-2.42	120.14	126.53
67	AK	501	GTP	N9-C4-N3	2.42	130.80	125.95
67	JK	501	GTP	O6-C6-C5	-2.42	120.14	126.53
67	SA	501	GTP	C5-C6-N1	2.42	119.41	113.25
67	EG	501	GTP	C5-C6-N1	2.42	119.41	113.25
67	DE	501	GTP	N9-C8-N7	-2.42	108.92	113.40
67	WK	501	GTP	C8-N7-C5	2.42	108.56	104.26
67	QC	501	GTP	C3'-C2'-C1'	2.42	106.03	101.46
69	DN	501	GDP	C4-C5-N7	-2.41	106.84	110.67
67	DE	501	GTP	O6-C6-C5	-2.41	120.16	126.53
67	JM	501	GTP	O6-C6-C5	-2.41	120.16	126.53
67	GI	501	GTP	O6-C6-C5	-2.41	120.16	126.53
67	QA	501	GTP	O6-C6-C5	-2.41	120.16	126.53
67	LI	501	GTP	O6-C6-C5	-2.41	120.16	126.53
67	KO	501	GTP	O6-C6-C5	-2.41	120.17	126.53
67	BI	501	GTP	O6-C6-C5	-2.41	120.17	126.53
67	NK	501	GTP	O6-C6-C5	-2.41	120.17	126.53
67	AC	501	GTP	N2-C2-N1	2.41	121.85	116.76
69	FL	501	GDP	C3'-C2'-C1'	2.41	106.02	101.46
67	VE	501	GTP	C5-C6-N1	2.41	119.39	113.25
67	IE	501	GTP	O6-C6-C5	-2.41	120.17	126.53
69	EJ	501	GDP	C4-C5-N7	-2.41	106.85	110.67
67	VK	501	GTP	C8-N7-C5	2.41	108.55	104.26
69	RH	501	GDP	C4-C5-N7	-2.41	106.86	110.67
69	CF	501	GDP	C4-C5-N7	-2.41	106.86	110.67
69	UF	501	GDP	C4-C5-N7	-2.40	106.86	110.67
67	SF	502	GTP	C8-N7-C5	2.40	108.54	104.26
69	TB	501	GDP	C3'-C2'-C1'	2.40	106.01	101.46
67	FM	501	GTP	O6-C6-C5	-2.40	120.19	126.53
69	MF	501	GDP	C1'-N9-C8	2.40	133.56	126.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	SE	501	GTP	O6-C6-C5	-2.40	120.19	126.53
69	RF	501	GDP	O6-C6-C5	-2.40	120.19	126.53
67	QI	501	GTP	O6-C6-C5	-2.40	120.19	126.53
69	RF	501	GDP	C4-C5-N7	-2.40	106.87	110.67
69	MD	501	GDP	O6-C6-C5	-2.40	120.20	126.53
67	CG	501	GTP	C8-N7-C5	2.40	108.53	104.26
67	JI	501	GTP	O6-C6-C5	-2.40	120.20	126.53
67	CL	502	GTP	C5-C6-N1	2.40	119.36	113.25
67	QM	501	GTP	N9-C8-N7	-2.40	108.96	113.40
69	LD	501	GDP	C2'-C3'-C4'	2.39	107.24	102.61
69	EH	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
67	SC	501	GTP	C3'-C2'-C1'	2.39	105.99	101.46
67	CJ	502	GTP	C3'-C2'-C1'	2.39	105.99	101.46
67	EI	501	GTP	O6-C6-C5	-2.39	120.22	126.53
67	IK	501	GTP	O6-C6-C5	-2.39	120.22	126.53
67	CL	502	GTP	O6-C6-C5	-2.39	120.23	126.53
67	EG	501	GTP	C8-N7-C5	2.39	108.51	104.26
67	HC	501	GTP	O6-C6-C5	-2.39	120.23	126.53
69	MJ	501	GDP	O6-C6-C5	-2.39	120.23	126.53
67	VI	502	GTP	C3'-C2'-C1'	2.39	105.98	101.46
69	DF	501	GDP	O6-C6-C5	-2.38	120.24	126.53
67	KM	501	GTP	O6-C6-C5	-2.38	120.24	126.53
67	OF	502	GTP	C8-N7-C5	2.38	108.51	104.26
67	TE	501	GTP	C8-N7-C5	2.38	108.51	104.26
67	IG	501	GTP	O6-C6-C5	-2.38	120.24	126.53
67	PI	501	GTP	N9-C8-N7	-2.38	108.98	113.40
67	BC	501	GTP	O6-C6-C5	-2.38	120.24	126.53
67	JG	501	GTP	O6-C6-C5	-2.38	120.25	126.53
69	MD	501	GDP	C1'-N9-C4	-2.38	119.45	126.49
69	QD	501	GDP	C4-C5-N7	-2.38	106.90	110.67
69	OF	501	GDP	C8-N7-C5	2.38	108.50	104.26
67	VG	501	GTP	O6-C6-C5	-2.38	120.25	126.53
69	ML	501	GDP	C4'-O4'-C1'	-2.38	104.22	109.47
67	CB	502	GTP	C8-N7-C5	2.38	108.49	104.26
69	SF	501	GDP	C4-C5-N7	-2.38	106.90	110.67
69	EL	501	GDP	C3'-C2'-C1'	2.38	105.96	101.46
67	BG	501	GTP	O6-C6-C5	-2.38	120.26	126.53
69	QJ	501	GDP	C4-C5-N7	-2.38	106.91	110.67
67	IC	501	GTP	O6-C6-C5	-2.37	120.27	126.53
67	AA	501	GTP	C8-N7-C5	2.37	108.49	104.26
67	RK	501	GTP	C2-N1-C6	-2.37	120.81	125.11
69	PJ	501	GDP	C5-C6-N1	2.37	119.29	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	QK	501	GTP	C8-N7-C5	2.37	108.49	104.26
69	LB	501	GDP	O6-C6-C5	-2.37	120.27	126.53
69	PJ	501	GDP	C2-N1-C6	-2.37	120.81	125.11
69	BH	501	GDP	C2'-C3'-C4'	2.37	107.19	102.61
67	IM	501	GTP	O6-C6-C5	-2.37	120.29	126.53
67	SK	501	GTP	C3'-C2'-C1'	2.37	105.94	101.46
69	O0	501	GDP	C3'-C2'-C1'	2.37	105.94	101.46
69	BD	501	GDP	C5'-C4'-C3'	-2.36	106.71	115.21
67	PI	501	GTP	C8-N7-C5	2.36	108.47	104.26
69	PF	501	GDP	O6-C6-C5	-2.36	120.30	126.53
67	O0	502	GTP	O6-C6-C5	-2.36	120.30	126.53
67	QE	501	GTP	C5-C6-N1	2.36	119.26	113.25
67	HG	502	GTP	O6-C6-C5	-2.36	120.30	126.53
67	OF	502	GTP	N9-C8-N7	-2.36	109.03	113.40
67	OF	502	GTP	O2G-PG-O3B	2.36	112.55	104.64
67	BI	501	GTP	C3'-C2'-C1'	2.36	105.92	101.46
67	LE	501	GTP	C3'-C2'-C1'	2.36	105.92	101.46
67	HL	502	GTP	O6-C6-C5	-2.36	120.31	126.53
67	NF	502	GTP	O3G-PG-O3B	2.35	112.53	104.64
67	RI	501	GTP	O6-C6-C5	-2.35	120.32	126.53
67	GC	501	GTP	O6-C6-C5	-2.35	120.32	126.53
67	DK	501	GTP	O6-C6-C5	-2.35	120.33	126.53
67	UC	501	GTP	O6-C6-C5	-2.35	120.33	126.53
67	UI	501	GTP	O6-C6-C5	-2.35	120.33	126.53
67	II	501	GTP	O6-C6-C5	-2.35	120.33	126.53
67	DF	502	GTP	C3'-C2'-C1'	2.35	105.91	101.46
67	AC	501	GTP	N9-C4-N3	2.35	130.65	125.95
69	JJ	501	GDP	C4-C5-N7	-2.35	106.95	110.67
67	CH	502	GTP	C8-N7-C5	2.35	108.44	104.26
67	CJ	502	GTP	O6-C6-C5	-2.35	120.34	126.53
69	SD	501	GDP	C3'-C2'-C1'	2.35	105.90	101.46
69	ML	501	GDP	C5-C6-N1	2.34	119.22	113.25
67	WM	501	GTP	C3'-C2'-C1'	2.34	105.89	101.46
67	KI	501	GTP	O6-C6-C5	-2.34	120.35	126.53
67	IK	501	GTP	C3'-C2'-C1'	2.34	105.89	101.46
67	VE	501	GTP	O6-C6-C5	-2.34	120.35	126.53
67	OF	502	GTP	O6-C6-C5	-2.34	120.36	126.53
67	OE	501	GTP	O6-C6-C5	-2.34	120.36	126.53
69	RH	501	GDP	C3'-C2'-C1'	2.34	105.88	101.46
67	PK	501	GTP	N9-C8-N7	-2.34	109.07	113.40
67	CA	501	GTP	N9-C8-N7	-2.33	109.07	113.40
67	TI	501	GTP	C5-C6-N1	2.33	119.19	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	WE	501	GTP	O6-C6-C5	-2.33	120.38	126.53
69	DD	501	GDP	O6-C6-C5	-2.33	120.38	126.53
67	WC	501	GTP	O6-C6-C5	-2.33	120.39	126.53
67	NA	502	GTP	C3'-C2'-C1'	2.33	105.86	101.46
67	IN	502	GTP	O6-C6-C5	-2.33	120.39	126.53
69	DF	501	GDP	C4-C5-N7	-2.33	106.98	110.67
67	UM	501	GTP	O6-C6-C5	-2.33	120.39	126.53
67	GJ	502	GTP	C3'-C2'-C1'	2.32	105.86	101.46
67	JE	501	GTP	C3'-C2'-C1'	2.32	105.86	101.46
67	OC	501	GTP	O6-C6-C5	-2.32	120.40	126.53
67	AC	501	GTP	O2A-PA-O3A	2.32	113.55	107.27
67	CG	501	GTP	C3'-C2'-C1'	2.32	105.85	101.46
69	MN	501	GDP	O6-C6-C5	-2.32	120.41	126.53
67	PI	501	GTP	O6-C6-C5	-2.32	120.41	126.53
67	CG	501	GTP	O6-C6-C5	-2.32	120.42	126.53
67	IN	502	GTP	O2B-PB-O3B	2.32	113.53	107.27
67	WG	501	GTP	C5-C6-N1	2.32	119.15	113.25
67	PK	501	GTP	O6-C6-C5	-2.31	120.42	126.53
67	HI	501	GTP	O6-C6-C5	-2.31	120.42	126.53
67	VL	502	GTP	O6-C6-C5	-2.31	120.42	126.53
67	BC	501	GTP	C3'-C2'-C1'	2.31	105.84	101.46
67	MC	501	GTP	C3'-C2'-C1'	2.31	105.84	101.46
67	NI	501	GTP	C3'-C2'-C1'	2.31	105.84	101.46
69	DL	501	GDP	C4-C5-N7	-2.31	107.00	110.67
67	CA	501	GTP	O6-C6-C5	-2.31	120.43	126.53
67	BK	501	GTP	O6-C6-C5	-2.31	120.43	126.53
67	SM	501	GTP	O2B-PB-O3A	2.31	113.52	107.27
69	PJ	501	GDP	O3B-PB-O3A	2.31	112.38	104.64
67	PK	501	GTP	C8-N7-C5	2.31	108.38	104.26
67	AD	502	GTP	O2A-PA-O3A	2.31	113.51	107.27
67	CH	502	GTP	C3'-C2'-C1'	2.30	105.82	101.46
67	UK	501	GTP	O6-C6-C5	-2.30	120.45	126.53
67	CD	502	GTP	O6-C6-C5	-2.30	120.45	126.53
69	RL	501	GDP	O2A-PA-O3A	2.30	113.50	107.27
67	SF	502	GTP	O2G-PG-O3B	2.30	112.35	104.64
69	NB	501	GDP	C1'-N9-C4	-2.30	119.69	126.49
69	NF	501	GDP	O6-C6-C5	-2.30	120.47	126.53
67	BA	501	GTP	C3'-C2'-C1'	2.30	105.81	101.46
67	DE	501	GTP	C8-N7-C5	2.30	108.35	104.26
69	OF	501	GDP	O6-C6-C5	-2.30	120.47	126.53
69	NH	501	GDP	C4'-O4'-C1'	-2.30	104.40	109.47
67	DF	502	GTP	N9-C8-N7	-2.29	109.15	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	CB	502	GTP	O6-C6-C5	-2.29	120.48	126.53
67	CA	501	GTP	C5-C6-N1	2.29	119.09	113.25
67	WG	501	GTP	C2'-C1'-N9	2.29	119.62	113.25
69	EJ	501	GDP	O6-C6-C5	-2.29	120.49	126.53
67	JI	501	GTP	C3'-C2'-C1'	2.29	105.79	101.46
67	CH	502	GTP	O6-C6-C5	-2.29	120.49	126.53
67	DI	501	GTP	C3'-C2'-C1'	2.29	105.79	101.46
69	KB	501	GDP	C3'-C2'-C1'	2.29	105.79	101.46
67	MG	501	GTP	N1-C2-N3	-2.28	119.14	123.32
69	CH	501	GDP	C3'-C2'-C1'	2.28	105.78	101.46
69	PB	501	GDP	O2A-PA-O3A	2.28	113.44	107.27
69	QF	501	GDP	C3'-C2'-C1'	2.28	105.78	101.46
69	CL	501	GDP	C4-C5-N7	-2.28	107.05	110.67
69	RH	501	GDP	O6-C6-C5	-2.28	120.51	126.53
67	HI	501	GTP	C3'-C2'-C1'	2.28	105.78	101.46
67	NA	502	GTP	C8-N7-C5	2.28	108.32	104.26
67	SF	502	GTP	N1-C2-N3	-2.28	119.15	123.32
69	DD	501	GDP	C4-C5-N7	-2.28	107.06	110.67
67	EC	501	GTP	C3'-C2'-C1'	2.28	105.77	101.46
67	PD	502	GTP	C5-C6-N1	2.27	119.04	113.25
69	NB	501	GDP	O4'-C1'-N9	2.27	113.51	108.36
67	MM	501	GTP	C3'-C2'-C1'	2.27	105.76	101.46
69	DB	501	GDP	O6-C6-C5	-2.27	120.54	126.53
69	PB	501	GDP	O3B-PB-O3A	2.27	112.25	104.64
67	AG	501	GTP	N9-C4-N3	2.27	130.49	125.95
69	MF	501	GDP	C4'-O4'-C1'	-2.27	104.46	109.47
67	OF	502	GTP	C3'-C2'-C1'	2.27	105.75	101.46
69	RL	501	GDP	C4-C5-N7	-2.27	107.08	110.67
67	CA	501	GTP	C3'-C2'-C1'	2.26	105.75	101.46
67	AK	501	GTP	N1-C2-N3	-2.26	119.18	123.32
69	JJ	501	GDP	O6-C6-C5	-2.26	120.56	126.53
69	HL	501	GDP	C3'-C2'-C1'	2.26	105.74	101.46
69	SJ	501	GDP	C3'-C2'-C1'	2.26	105.74	101.46
69	SL	501	GDP	C3'-C2'-C1'	2.26	105.74	101.46
69	QB	501	GDP	C5-C6-N1	2.26	119.00	113.25
69	FB	501	GDP	C3'-C2'-C1'	2.26	105.73	101.46
69	SB	501	GDP	C2'-C1'-N9	-2.26	106.97	113.25
67	AM	501	GTP	N2-C2-N1	2.26	121.53	116.76
67	OH	502	GTP	O6-C6-C5	-2.26	120.58	126.53
67	EG	501	GTP	O2B-PB-O3A	2.25	113.36	107.27
69	RL	501	GDP	O5'-PA-O1A	-2.25	100.02	108.94
67	AG	501	GTP	N1-C2-N3	-2.25	119.21	123.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	KN	501	GDP	O2A-PA-O3A	2.25	113.35	107.27
67	BE	501	GTP	O6-C6-C5	-2.25	120.60	126.53
69	EN	501	GDP	C3'-C2'-C1'	2.25	105.71	101.46
67	PG	501	GTP	C8-N7-C5	2.25	108.26	104.26
69	FH	501	GDP	C3'-C2'-C1'	2.25	105.71	101.46
69	SF	501	GDP	O6-C6-C5	-2.24	120.61	126.53
69	RJ	501	GDP	C3'-C2'-C1'	2.24	105.71	101.46
69	IN	501	GDP	C3'-C2'-C1'	2.24	105.71	101.46
69	UF	501	GDP	C2'-C3'-C4'	2.24	106.94	102.61
69	PH	501	GDP	O6-C6-C5	-2.24	120.62	126.53
67	FC	501	GTP	N1-C2-N3	-2.24	119.22	123.32
67	BK	501	GTP	C3'-C2'-C1'	2.24	105.70	101.46
67	AD	502	GTP	N1-C2-N3	-2.24	119.23	123.32
67	VC	501	GTP	O6-C6-C5	-2.24	120.63	126.53
67	VI	502	GTP	O6-C6-C5	-2.24	120.63	126.53
67	CA	501	GTP	N1-C2-N3	-2.23	119.23	123.32
69	QH	501	GDP	C4-C5-N7	-2.23	107.13	110.67
67	DA	501	GTP	O6-C6-C5	-2.23	120.64	126.53
69	IF	501	GDP	C2'-C3'-C4'	2.23	106.92	102.61
67	DF	502	GTP	C8-N7-C5	2.23	108.24	104.26
69	FD	501	GDP	O6-C6-C5	-2.23	120.64	126.53
67	CL	502	GTP	C8-N7-C5	2.23	108.23	104.26
67	VE	501	GTP	N2-C2-N1	2.23	121.46	116.76
69	SJ	501	GDP	O6-C6-C5	-2.23	120.65	126.53
67	SI	501	GTP	C5-C6-N1	2.23	118.92	113.25
69	DL	501	GDP	O6-C6-C5	-2.23	120.66	126.53
67	RK	501	GTP	C5-C6-N1	2.23	118.92	113.25
67	DK	501	GTP	N9-C8-N7	-2.22	109.28	113.40
67	AH	502	GTP	N1-C2-N3	-2.22	119.25	123.32
67	TG	501	GTP	C8-N7-C5	2.22	108.22	104.26
67	RM	501	GTP	C3'-C2'-C1'	2.22	105.67	101.46
69	QH	501	GDP	O6-C6-C5	-2.22	120.67	126.53
69	UN	501	GDP	C3'-C2'-C1'	2.22	105.66	101.46
67	LK	501	GTP	O2B-PB-O3A	2.22	113.27	107.27
67	DK	501	GTP	O3G-PG-O3B	2.22	112.07	104.64
69	WN	501	GDP	C2'-C3'-C4'	2.21	106.89	102.61
67	LK	501	GTP	C3'-C2'-C1'	2.21	105.65	101.46
69	OF	501	GDP	C5-C4-N9	2.21	109.62	105.66
67	FM	501	GTP	O2B-PB-O3B	2.21	113.25	107.27
67	HC	501	GTP	C3'-C2'-C1'	2.21	105.64	101.46
67	OH	502	GTP	C3'-C2'-C1'	2.21	105.64	101.46
67	QE	501	GTP	O6-C6-C5	-2.21	120.70	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	RI	501	GTP	N2-C2-N3	-2.21	115.36	119.67
67	IC	501	GTP	C3'-C2'-C1'	2.21	105.64	101.46
69	N0	501	GDP	C2-N1-C6	-2.21	121.11	125.11
67	EI	501	GTP	C3'-C2'-C1'	2.21	105.64	101.46
69	OJ	501	GDP	C2'-C3'-C4'	2.21	106.87	102.61
69	WH	501	GDP	O6-C6-C5	-2.21	120.71	126.53
67	PC	501	GTP	C8-N7-C5	2.21	108.19	104.26
69	UF	501	GDP	O6-C6-C5	-2.20	120.72	126.53
69	UD	501	GDP	O6-C6-C5	-2.20	120.73	126.53
67	RA	501	GTP	O6-C6-C5	-2.20	120.73	126.53
69	N0	501	GDP	O6-C6-C5	-2.20	120.73	126.53
69	ML	501	GDP	N9-C8-N7	-2.20	109.33	113.40
67	DE	501	GTP	C3'-C2'-C1'	2.20	105.62	101.46
67	OF	502	GTP	O2B-PB-O3B	2.20	113.21	107.27
69	UD	501	GDP	C2'-C3'-C4'	2.19	106.85	102.61
69	CH	501	GDP	O3B-PB-O3A	2.19	111.99	104.64
69	RD	501	GDP	C4-C5-N7	-2.19	107.19	110.67
69	CH	501	GDP	O2A-PA-O3A	2.19	113.19	107.27
67	JK	501	GTP	C3'-C2'-C1'	2.19	105.61	101.46
69	HB	501	GDP	O6-C6-C5	-2.19	120.75	126.53
67	BM	501	GTP	C3'-C2'-C1'	2.19	105.60	101.46
69	PH	501	GDP	O2A-PA-O3A	2.19	113.19	107.27
69	DN	501	GDP	O6-C6-C5	-2.19	120.76	126.53
67	FG	501	GTP	C8-N7-C5	2.19	108.16	104.26
69	AH	501	GDP	C3'-C2'-C1'	2.19	105.60	101.46
69	UJ	501	GDP	O6-C6-C5	-2.19	120.76	126.53
67	IN	502	GTP	C3'-C2'-C1'	2.18	105.59	101.46
67	GG	501	GTP	O2B-PB-O3A	2.18	113.17	107.27
69	DH	501	GDP	C2'-C1'-N9	-2.18	107.17	113.25
67	CL	502	GTP	N9-C8-N7	-2.18	109.36	113.40
69	VF	501	GDP	O6-C6-C5	-2.18	120.77	126.53
69	ML	501	GDP	N1-C2-N3	-2.18	119.33	123.32
67	QM	501	GTP	C8-N7-C5	2.18	108.14	104.26
69	FB	501	GDP	O6-C6-C5	-2.18	120.78	126.53
69	SH	501	GDP	C3'-C2'-C1'	2.18	105.59	101.46
67	MK	501	GTP	O2A-PA-O3A	2.18	113.16	107.27
67	CH	502	GTP	N9-C8-N7	-2.18	109.36	113.40
69	QD	501	GDP	C5-C6-N1	2.18	118.80	113.25
69	NL	501	GDP	C3'-C2'-C1'	2.18	105.58	101.46
69	RJ	501	GDP	O2A-PA-O3A	2.18	113.15	107.27
69	UL	501	GDP	C2'-C3'-C4'	2.17	106.81	102.61
67	CB	502	GTP	C3'-C2'-C1'	2.17	105.58	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	KH	501	GDP	O6-C6-C5	-2.17	120.80	126.53
69	EF	501	GDP	O6-C6-C5	-2.17	120.80	126.53
69	NH	501	GDP	N2-C2-N3	-2.17	115.43	119.67
69	MD	501	GDP	C8-N7-C5	2.17	108.13	104.26
69	QF	501	GDP	O6-C6-C5	-2.17	120.81	126.53
69	SH	501	GDP	O6-C6-C5	-2.17	120.81	126.53
69	IF	501	GDP	O6-C6-C5	-2.17	120.81	126.53
69	JF	501	GDP	O6-C6-C5	-2.17	120.81	126.53
69	MD	501	GDP	N9-C4-N3	2.17	130.28	125.95
67	KG	501	GTP	N2-C2-N1	2.17	121.33	116.76
67	SI	501	GTP	C4-C5-N7	-2.17	107.24	110.67
67	IN	502	GTP	O2A-PA-O3A	2.17	113.13	107.27
69	BL	501	GDP	C2'-C3'-C4'	2.17	106.79	102.61
67	II	501	GTP	C3'-C2'-C1'	2.17	105.56	101.46
69	SD	501	GDP	O6-C6-C5	-2.17	120.82	126.53
69	MB	501	GDP	N2-C2-N1	2.16	121.33	116.76
69	TL	501	GDP	O6-C6-C5	-2.16	120.82	126.53
69	GJ	501	GDP	O6-C6-C5	-2.16	120.82	126.53
69	JN	501	GDP	O6-C6-C5	-2.16	120.83	126.53
69	LD	501	GDP	C5-C6-N1	2.16	118.75	113.25
67	FK	501	GTP	C3'-C2'-C1'	2.16	105.55	101.46
67	AA	501	GTP	N2-C2-N1	2.16	121.32	116.76
67	FE	501	GTP	C3'-C2'-C1'	2.16	105.55	101.46
67	WC	501	GTP	C3'-C2'-C1'	2.16	105.54	101.46
69	KN	501	GDP	O3B-PB-O3A	2.16	111.87	104.64
69	EL	501	GDP	O6-C6-C5	-2.15	120.85	126.53
69	IB	501	GDP	O6-C6-C5	-2.15	120.85	126.53
69	KJ	501	GDP	C3'-C2'-C1'	2.15	105.53	101.46
69	QF	501	GDP	C2'-C3'-C4'	2.15	106.77	102.61
69	KF	501	GDP	O6-C6-C5	-2.15	120.86	126.53
69	BJ	501	GDP	O6-C6-C5	-2.15	120.86	126.53
69	SL	501	GDP	O6-C6-C5	-2.15	120.86	126.53
67	IN	502	GTP	O2B-PB-O3A	2.15	113.08	107.27
69	IN	501	GDP	O6-C6-C5	-2.15	120.86	126.53
69	N0	501	GDP	C5-C6-N1	2.15	118.72	113.25
69	PB	501	GDP	C5-C6-N1	2.15	118.72	113.25
67	PM	501	GTP	O6-C6-C5	-2.15	120.86	126.53
69	DH	501	GDP	C4-C5-N7	-2.15	107.27	110.67
69	OH	501	GDP	C2'-C3'-C4'	2.15	106.76	102.61
67	VL	502	GTP	O2A-PA-O3A	2.15	113.08	107.27
69	MF	501	GDP	N9-C4-N3	2.15	130.25	125.95
69	ID	501	GDP	O6-C6-C5	-2.15	120.87	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	DA	501	GTP	C4-C5-N7	-2.15	107.27	110.67
67	DI	501	GTP	O6-C6-C5	-2.14	120.87	126.53
69	FJ	501	GDP	O6-C6-C5	-2.14	120.87	126.53
67	IM	501	GTP	C3'-C2'-C1'	2.14	105.52	101.46
69	ND	501	GDP	O6-C6-C5	-2.14	120.87	126.53
69	WL	501	GDP	O6-C6-C5	-2.14	120.87	126.53
67	NE	501	GTP	C3'-C2'-C1'	2.14	105.52	101.46
67	OE	501	GTP	C3'-C2'-C1'	2.14	105.52	101.46
67	WG	501	GTP	C2'-C3'-C4'	2.14	106.75	102.61
67	QA	501	GTP	O3G-PG-O3B	2.14	111.82	104.64
67	KO	501	GTP	C3'-C2'-C1'	2.14	105.51	101.46
69	FL	501	GDP	O6-C6-C5	-2.14	120.88	126.53
69	JD	501	GDP	O6-C6-C5	-2.14	120.89	126.53
69	GN	501	GDP	O6-C6-C5	-2.14	120.89	126.53
69	VN	501	GDP	O6-C6-C5	-2.14	120.89	126.53
67	RK	501	GTP	O3G-PG-O3B	2.14	111.80	104.64
67	PI	501	GTP	C3'-C2'-C1'	2.13	105.50	101.46
67	UK	501	GTP	C3'-C2'-C1'	2.13	105.50	101.46
69	O0	501	GDP	O6-C6-C5	-2.13	120.90	126.53
69	CB	501	GDP	O6-C6-C5	-2.13	120.90	126.53
69	WB	501	GDP	C3'-C2'-C1'	2.13	105.49	101.46
69	FH	501	GDP	O6-C6-C5	-2.13	120.91	126.53
69	MF	501	GDP	C8-N7-C5	2.13	108.06	104.26
69	OH	501	GDP	O6-C6-C5	-2.13	120.91	126.53
69	OL	501	GDP	O6-C6-C5	-2.13	120.91	126.53
69	KL	501	GDP	O6-C6-C5	-2.13	120.91	126.53
67	HL	502	GTP	O3G-PG-O3B	2.13	111.78	104.64
67	PM	501	GTP	C3'-C2'-C1'	2.13	105.49	101.46
69	TF	501	GDP	O6-C6-C5	-2.13	120.91	126.53
67	KC	501	GTP	C3'-C2'-C1'	2.13	105.49	101.46
69	TD	501	GDP	O6-C6-C5	-2.13	120.92	126.53
69	NB	501	GDP	N9-C4-N3	2.13	130.21	125.95
69	BF	501	GDP	O6-C6-C5	-2.13	120.92	126.53
69	JB	501	GDP	O6-C6-C5	-2.12	120.92	126.53
67	HK	501	GTP	C3'-C2'-C1'	2.12	105.48	101.46
69	UJ	501	GDP	C3'-C2'-C1'	2.12	105.48	101.46
67	GM	501	GTP	C3'-C2'-C1'	2.12	105.48	101.46
67	QI	501	GTP	C3'-C2'-C1'	2.12	105.48	101.46
69	ED	501	GDP	O6-C6-C5	-2.12	120.93	126.53
69	UN	501	GDP	O6-C6-C5	-2.12	120.93	126.53
69	HD	501	GDP	O6-C6-C5	-2.12	120.93	126.53
69	TL	501	GDP	C3'-C2'-C1'	2.12	105.48	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	AD	501	GDP	O6-C6-C5	-2.12	120.93	126.53
69	PJ	501	GDP	C2'-C3'-C4'	2.12	106.71	102.61
69	KD	501	GDP	O6-C6-C5	-2.12	120.94	126.53
69	KJ	501	GDP	O6-C6-C5	-2.12	120.94	126.53
69	MF	501	GDP	C6-C5-C4	-2.12	115.64	118.83
69	AJ	501	GDP	O6-C6-C5	-2.12	120.94	126.53
69	GL	501	GDP	O6-C6-C5	-2.12	120.94	126.53
69	AB	501	GDP	C3'-C2'-C1'	2.12	105.47	101.46
67	VK	501	GTP	O3G-PG-O3B	2.12	111.74	104.64
67	KK	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
67	UE	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
69	EH	501	GDP	O6-C6-C5	-2.12	120.94	126.53
69	DJ	501	GDP	C4-C5-N7	-2.12	107.32	110.67
69	DL	501	GDP	O3B-PB-O3A	2.11	111.73	104.64
69	WN	501	GDP	O6-C6-C5	-2.11	120.95	126.53
69	GF	501	GDP	O6-C6-C5	-2.11	120.95	126.53
69	HF	501	GDP	O6-C6-C5	-2.11	120.95	126.53
69	ML	501	GDP	C8-N7-C5	2.11	108.03	104.26
69	QJ	501	GDP	O6-C6-C5	-2.11	120.96	126.53
67	NB	502	GTP	C3'-C2'-C1'	2.11	105.46	101.46
67	UC	501	GTP	O2A-PA-O3A	2.11	112.98	107.27
69	AL	501	GDP	O6-C6-C5	-2.11	120.96	126.53
69	OB	501	GDP	C2'-C3'-C4'	2.11	106.69	102.61
67	CA	501	GTP	C2-N1-C6	-2.11	121.28	125.11
69	TJ	501	GDP	O6-C6-C5	-2.11	120.96	126.53
67	SI	501	GTP	C2'-C3'-C4'	2.11	106.69	102.61
67	VE	501	GTP	O3G-PG-O3B	2.11	111.71	104.64
67	AC	501	GTP	N1-C2-N3	-2.11	119.46	123.32
69	AB	501	GDP	O6-C6-C5	-2.11	120.96	126.53
67	AD	502	GTP	C4-C5-N7	-2.11	107.33	110.67
67	CL	502	GTP	C3'-C2'-C1'	2.11	105.45	101.46
69	BD	501	GDP	O6-C6-C5	-2.11	120.97	126.53
69	GD	501	GDP	O6-C6-C5	-2.11	120.97	126.53
69	BH	501	GDP	O6-C6-C5	-2.11	120.97	126.53
69	FN	501	GDP	O6-C6-C5	-2.11	120.97	126.53
69	PL	501	GDP	O6-C6-C5	-2.11	120.97	126.53
69	IH	501	GDP	O6-C6-C5	-2.11	120.97	126.53
67	CA	501	GTP	C8-N7-C5	2.11	108.02	104.26
67	CD	502	GTP	C3'-C2'-C1'	2.11	105.45	101.46
67	MK	501	GTP	O2B-PB-O3A	2.11	112.97	107.27
69	IL	501	GDP	O6-C6-C5	-2.11	120.97	126.53
69	QD	501	GDP	C2'-C3'-C4'	2.11	106.68	102.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	EB	501	GDP	C3'-C2'-C1'	2.11	105.45	101.46
67	EG	501	GTP	O6-C6-C5	-2.11	120.97	126.53
69	HN	501	GDP	C3'-C2'-C1'	2.11	105.44	101.46
69	IB	501	GDP	C4-C5-N7	-2.10	107.33	110.67
69	IB	501	GDP	O2'-C2'-C3'	-2.10	105.07	111.82
69	RB	501	GDP	C4-C5-N7	-2.10	107.33	110.67
69	OD	501	GDP	O6-C6-C5	-2.10	120.98	126.53
69	TB	501	GDP	O6-C6-C5	-2.10	120.98	126.53
67	HG	502	GTP	C3'-C2'-C1'	2.10	105.44	101.46
67	AD	502	GTP	C6-C5-N7	2.10	134.11	130.29
69	GJ	501	GDP	C2'-C3'-C4'	2.10	106.67	102.61
69	TD	501	GDP	C2'-C3'-C4'	2.10	106.67	102.61
69	WJ	501	GDP	O6-C6-C5	-2.10	120.99	126.53
67	EK	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
69	AD	501	GDP	C3'-C2'-C1'	2.09	105.42	101.46
69	FD	501	GDP	C2'-C3'-C4'	2.09	106.66	102.61
67	SA	501	GTP	C8-N7-C5	2.09	107.99	104.26
69	DN	501	GDP	C3'-C2'-C1'	2.09	105.42	101.46
69	SB	501	GDP	C4-C5-N7	-2.09	107.35	110.67
69	OB	501	GDP	O6-C6-C5	-2.09	121.01	126.53
69	BL	501	GDP	O6-C6-C5	-2.09	121.01	126.53
67	NK	501	GTP	O3G-PG-O3B	2.09	111.65	104.64
69	DB	501	GDP	C5-C6-N1	2.09	118.58	113.25
67	QG	501	GTP	O3G-PG-O3B	2.09	111.65	104.64
69	VB	501	GDP	O6-C6-C5	-2.09	121.01	126.53
67	WI	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
69	HN	501	GDP	O6-C6-C5	-2.09	121.01	126.53
67	OH	502	GTP	O2A-PA-O3A	2.09	112.92	107.27
67	KG	501	GTP	N1-C2-N3	-2.09	119.50	123.32
69	AF	501	GDP	O6-C6-C5	-2.09	121.02	126.53
69	LN	501	GDP	O6-C6-C5	-2.09	121.02	126.53
69	CL	501	GDP	C3'-C2'-C1'	2.09	105.41	101.46
67	GM	501	GTP	O2G-PG-O3B	2.09	111.64	104.64
69	RB	501	GDP	C5-C6-N1	2.09	118.56	113.25
67	FC	501	GTP	O6-C6-C5	-2.09	121.03	126.53
67	LI	501	GTP	C3'-C2'-C1'	2.09	105.41	101.46
69	IJ	501	GDP	O6-C6-C5	-2.09	121.03	126.53
67	AA	501	GTP	C3'-C2'-C1'	2.08	105.41	101.46
69	UL	501	GDP	O6-C6-C5	-2.08	121.03	126.53
67	AD	502	GTP	N9-C4-N3	2.08	130.12	125.95
69	EN	501	GDP	O6-C6-C5	-2.08	121.03	126.53
67	RI	501	GTP	C1'-N9-C8	2.08	132.65	126.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	HL	501	GDP	O6-C6-C5	-2.08	121.03	126.53
69	CB	501	GDP	C5-C6-N1	2.08	118.55	113.25
69	QD	501	GDP	O6-C6-C5	-2.08	121.04	126.53
67	FI	501	GTP	O2B-PB-O3A	2.08	112.90	107.27
67	HN	502	GTP	C3'-C2'-C1'	2.08	105.40	101.46
67	CB	502	GTP	O2B-PB-O3B	2.08	112.89	107.27
69	NB	501	GDP	C2-N1-C6	-2.08	121.34	125.11
69	UJ	501	GDP	O2B-PB-O3A	2.08	111.61	104.64
69	GH	501	GDP	O6-C6-C5	-2.08	121.05	126.53
69	VD	501	GDP	O2B-PB-O3A	2.08	111.60	104.64
69	AH	501	GDP	O6-C6-C5	-2.08	121.05	126.53
69	JL	501	GDP	O6-C6-C5	-2.08	121.05	126.53
69	EJ	501	GDP	C3'-C2'-C1'	2.08	105.39	101.46
69	UB	501	GDP	O6-C6-C5	-2.07	121.06	126.53
67	JC	501	GTP	N2-C2-N1	2.07	121.14	116.76
69	HH	501	GDP	O6-C6-C5	-2.07	121.06	126.53
69	IH	501	GDP	C3'-C2'-C1'	2.07	105.39	101.46
69	GB	501	GDP	C3'-C2'-C1'	2.07	105.39	101.46
67	SA	501	GTP	C2'-C3'-C4'	2.07	106.61	102.61
69	NL	501	GDP	O6-C6-C5	-2.07	121.06	126.53
67	RG	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
69	JH	501	GDP	O6-C6-C5	-2.07	121.07	126.53
69	SF	501	GDP	C2'-C3'-C4'	2.07	106.61	102.61
67	CD	502	GTP	O2B-PB-O3B	2.07	112.86	107.27
69	HD	501	GDP	C3'-C2'-C1'	2.07	105.38	101.46
69	KB	501	GDP	O6-C6-C5	-2.07	121.07	126.53
69	KF	501	GDP	O3B-PB-O3A	2.07	111.57	104.64
69	CL	501	GDP	O6-C6-C5	-2.07	121.08	126.53
69	DF	501	GDP	C3'-C2'-C1'	2.07	105.37	101.46
69	PD	501	GDP	O6-C6-C5	-2.07	121.08	126.53
69	NH	501	GDP	C5-C6-N1	2.06	118.51	113.25
69	TH	501	GDP	O6-C6-C5	-2.06	121.08	126.53
67	DK	501	GTP	O4'-C4'-C5'	2.06	115.94	109.33
69	FF	501	GDP	C8-N7-C5	2.06	107.94	104.26
69	GB	501	GDP	O6-C6-C5	-2.06	121.09	126.53
67	VC	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
69	EF	501	GDP	C3'-C2'-C1'	2.06	105.36	101.46
69	PD	501	GDP	O3A-PA-O1A	-2.06	104.51	110.70
69	BB	501	GDP	O6-C6-C5	-2.06	121.09	126.53
69	LH	501	GDP	C5-C6-N1	2.06	118.49	113.25
67	HL	502	GTP	C3'-C2'-C1'	2.06	105.35	101.46
69	AJ	501	GDP	C3'-C2'-C1'	2.06	105.35	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	QB	501	GDP	C4-C5-N7	-2.05	107.42	110.67
67	WG	501	GTP	O4'-C1'-N9	-2.05	103.71	108.36
67	HN	502	GTP	O2A-PA-O3A	2.05	112.82	107.27
69	KN	501	GDP	O6-C6-C5	-2.05	121.12	126.53
69	MJ	501	GDP	O2A-PA-O3A	2.05	112.82	107.27
69	MB	501	GDP	C5-C6-N1	2.05	118.47	113.25
67	OK	501	GTP	O6-C6-C5	-2.05	121.12	126.53
69	QJ	501	GDP	O2B-PB-O3A	2.05	111.51	104.64
67	UC	501	GTP	C3'-C2'-C1'	2.05	105.33	101.46
69	MF	501	GDP	N9-C8-N7	-2.05	109.61	113.40
69	SB	501	GDP	C5-C6-N1	2.05	118.46	113.25
67	MG	501	GTP	C4-C5-N7	-2.04	107.43	110.67
69	CF	501	GDP	C3'-C2'-C1'	2.04	105.33	101.46
69	BJ	501	GDP	C3'-C2'-C1'	2.04	105.33	101.46
69	VJ	501	GDP	O6-C6-C5	-2.04	121.14	126.53
67	BG	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
67	WE	501	GTP	O3A-PB-O1B	2.04	116.85	110.70
67	JC	501	GTP	C4-C5-N7	-2.04	107.43	110.67
67	UI	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
67	IE	501	GTP	O2B-PB-O3A	2.04	112.79	107.27
69	NB	501	GDP	C8-N7-C5	2.04	107.90	104.26
69	PF	501	GDP	O3B-PB-O3A	2.04	111.48	104.64
69	MD	501	GDP	C1'-N9-C8	2.04	132.53	126.73
69	NJ	501	GDP	O6-C6-C5	-2.04	121.15	126.53
69	CD	501	GDP	C3'-C2'-C1'	2.04	105.32	101.46
67	VE	501	GTP	C4-C5-N7	-2.04	107.44	110.67
69	VL	501	GDP	O6-C6-C5	-2.04	121.15	126.53
67	TI	501	GTP	C8-N7-C5	2.04	107.89	104.26
67	QK	501	GTP	O3G-PG-O3B	2.04	111.47	104.64
69	JN	501	GDP	C2'-C3'-C4'	2.03	106.54	102.61
67	GI	501	GTP	O2A-PA-O3A	2.03	112.77	107.27
69	WD	501	GDP	O6-C6-C5	-2.03	121.17	126.53
67	CH	502	GTP	O2B-PB-O3B	2.03	112.77	107.27
67	WE	501	GTP	O2B-PB-O3B	2.03	112.76	107.27
69	OJ	501	GDP	O6-C6-C5	-2.03	121.18	126.53
69	PB	501	GDP	C8-N7-C5	2.03	107.87	104.26
67	NA	502	GTP	O2G-PG-O3B	2.03	111.43	104.64
67	GE	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
69	N0	501	GDP	C8-N7-C5	2.03	107.87	104.26
69	TJ	501	GDP	C3'-C2'-C1'	2.03	105.30	101.46
69	LD	501	GDP	C8-N9-C4	2.02	109.82	106.03
67	SF	502	GTP	C3'-C2'-C1'	2.02	105.29	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	EB	501	GDP	O6-C6-C5	-2.02	121.19	126.53
67	VL	502	GTP	C3'-C2'-C1'	2.02	105.29	101.46
67	DA	501	GTP	O4'-C4'-C3'	2.02	109.17	105.15
69	OF	501	GDP	C2'-C3'-C4'	2.02	106.52	102.61
67	WG	501	GTP	C4-C5-N7	-2.02	107.47	110.67
69	CJ	501	GDP	O6-C6-C5	-2.02	121.20	126.53
69	FN	501	GDP	C3'-C2'-C1'	2.02	105.28	101.46
69	WB	501	GDP	O6-C6-C5	-2.02	121.20	126.53
69	PF	501	GDP	O2A-PA-O3A	2.02	112.73	107.27
67	PD	502	GTP	C3'-C2'-C1'	2.02	105.28	101.46
69	VH	501	GDP	C3'-C2'-C1'	2.02	105.28	101.46
69	KB	501	GDP	O2A-PA-O3A	2.02	112.72	107.27
67	GG	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
67	IG	501	GTP	O2B-PB-O3A	2.02	112.72	107.27
69	LH	501	GDP	C2-N1-C6	-2.02	121.45	125.11
67	HN	502	GTP	O2B-PB-O3A	2.02	112.72	107.27
67	LM	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
69	KF	501	GDP	C2'-C3'-C4'	2.01	106.50	102.61
69	GH	501	GDP	C3'-C2'-C1'	2.01	105.27	101.46
67	MG	501	GTP	N9-C4-N3	2.01	129.98	125.95
67	MI	501	GTP	C5-C4-N9	2.01	109.26	105.66
69	WF	501	GDP	O6-C6-C5	-2.01	121.22	126.53
69	OD	501	GDP	C2'-C3'-C4'	2.01	106.50	102.61
69	CF	501	GDP	O6-C6-C5	-2.01	121.22	126.53
69	VD	501	GDP	O6-C6-C5	-2.01	121.23	126.53
69	GF	501	GDP	C3'-C2'-C1'	2.01	105.26	101.46
69	WF	501	GDP	O2A-PA-O3A	2.01	112.70	107.27
69	NH	501	GDP	C8-N7-C5	2.01	107.84	104.26
69	VH	501	GDP	C5-C6-N1	2.01	118.36	113.25
67	IE	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
69	JJ	501	GDP	C2'-C3'-C4'	2.01	106.49	102.61
69	QJ	501	GDP	C2'-C3'-C4'	2.01	106.48	102.61
67	SK	501	GTP	O3G-PG-O3B	2.01	111.36	104.64
67	KM	501	GTP	O3G-PG-O3B	2.01	111.36	104.64
67	GC	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
67	AM	501	GTP	N1-C2-N3	-2.00	119.65	123.32
69	NB	501	GDP	C1'-N9-C8	2.00	132.42	126.73
69	NJ	501	GDP	C5-C6-N1	2.00	118.35	113.25
67	IG	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46

There are no chirality outliers.

All (1145) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
67	AA	501	GTP	C5'-O5'-PA-O3A
67	AA	501	GTP	C5'-O5'-PA-O1A
67	AA	501	GTP	C5'-O5'-PA-O2A
67	AC	501	GTP	C5'-O5'-PA-O3A
67	AC	501	GTP	C5'-O5'-PA-O1A
67	AC	501	GTP	C5'-O5'-PA-O2A
67	AG	501	GTP	C5'-O5'-PA-O3A
67	AG	501	GTP	C5'-O5'-PA-O1A
67	AG	501	GTP	C5'-O5'-PA-O2A
67	AK	501	GTP	C5'-O5'-PA-O3A
67	AK	501	GTP	C5'-O5'-PA-O1A
67	BA	501	GTP	C5'-O5'-PA-O3A
67	BA	501	GTP	C5'-O5'-PA-O2A
67	BC	501	GTP	C5'-O5'-PA-O3A
67	BC	501	GTP	C5'-O5'-PA-O1A
67	BE	501	GTP	C5'-O5'-PA-O3A
67	BE	501	GTP	C5'-O5'-PA-O2A
67	BG	501	GTP	C5'-O5'-PA-O3A
67	BG	501	GTP	C5'-O5'-PA-O1A
67	BG	501	GTP	C5'-O5'-PA-O2A
67	BG	501	GTP	O4'-C4'-C5'-O5'
67	BG	501	GTP	C3'-C4'-C5'-O5'
67	BI	501	GTP	PB-O3B-PG-O2G
67	BI	501	GTP	PB-O3B-PG-O3G
67	BI	501	GTP	C5'-O5'-PA-O3A
67	BI	501	GTP	C5'-O5'-PA-O1A
67	BK	501	GTP	C5'-O5'-PA-O3A
67	BK	501	GTP	C5'-O5'-PA-O1A
67	BK	501	GTP	C5'-O5'-PA-O2A
67	BM	501	GTP	C5'-O5'-PA-O3A
67	BM	501	GTP	C5'-O5'-PA-O1A
67	BM	501	GTP	C5'-O5'-PA-O2A
67	CB	502	GTP	C5'-O5'-PA-O3A
67	CB	502	GTP	C5'-O5'-PA-O2A
67	CD	502	GTP	C5'-O5'-PA-O3A
67	CD	502	GTP	C5'-O5'-PA-O2A
67	CG	501	GTP	C5'-O5'-PA-O3A
67	CG	501	GTP	C5'-O5'-PA-O2A
67	CH	502	GTP	C5'-O5'-PA-O3A
67	CH	502	GTP	C5'-O5'-PA-O2A
67	CJ	502	GTP	C5'-O5'-PA-O3A
67	CJ	502	GTP	C5'-O5'-PA-O1A
67	CJ	502	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
67	DC	501	GTP	C5'-O5'-PA-O3A
67	DC	501	GTP	C5'-O5'-PA-O1A
67	DC	501	GTP	C5'-O5'-PA-O2A
67	DF	502	GTP	C5'-O5'-PA-O3A
67	DF	502	GTP	C5'-O5'-PA-O2A
67	DF	502	GTP	O4'-C4'-C5'-O5'
67	DI	501	GTP	C5'-O5'-PA-O3A
67	DI	501	GTP	C5'-O5'-PA-O1A
67	DI	501	GTP	C5'-O5'-PA-O2A
67	DM	501	GTP	C5'-O5'-PA-O1A
67	EC	501	GTP	C5'-O5'-PA-O3A
67	EC	501	GTP	C5'-O5'-PA-O1A
67	EC	501	GTP	C5'-O5'-PA-O2A
67	EG	501	GTP	C5'-O5'-PA-O3A
67	EG	501	GTP	C5'-O5'-PA-O1A
67	EG	501	GTP	O4'-C4'-C5'-O5'
67	EG	501	GTP	C3'-C4'-C5'-O5'
67	EI	501	GTP	PB-O3B-PG-O3G
67	EI	501	GTP	C5'-O5'-PA-O3A
67	EI	501	GTP	C5'-O5'-PA-O2A
67	EK	501	GTP	PB-O3B-PG-O3G
67	EK	501	GTP	O4'-C4'-C5'-O5'
67	EM	501	GTP	C5'-O5'-PA-O3A
67	EM	501	GTP	C5'-O5'-PA-O1A
67	EM	501	GTP	C5'-O5'-PA-O2A
67	FE	501	GTP	C5'-O5'-PA-O2A
67	FG	501	GTP	C4'-C5'-O5'-PA
67	FI	501	GTP	C5'-O5'-PA-O1A
67	FM	501	GTP	O4'-C4'-C5'-O5'
67	GE	501	GTP	C5'-O5'-PA-O3A
67	GE	501	GTP	C5'-O5'-PA-O1A
67	GG	501	GTP	O4'-C4'-C5'-O5'
67	GG	501	GTP	C3'-C4'-C5'-O5'
67	GI	501	GTP	C5'-O5'-PA-O3A
67	GI	501	GTP	C5'-O5'-PA-O2A
67	GJ	502	GTP	C5'-O5'-PA-O3A
67	GJ	502	GTP	C5'-O5'-PA-O1A
67	HC	501	GTP	C5'-O5'-PA-O3A
67	HC	501	GTP	C5'-O5'-PA-O1A
67	HC	501	GTP	C5'-O5'-PA-O2A
67	HE	501	GTP	C5'-O5'-PA-O3A
67	HE	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
67	HE	501	GTP	C5'-O5'-PA-O2A
67	HI	501	GTP	C5'-O5'-PA-O3A
67	HI	501	GTP	C5'-O5'-PA-O1A
67	HI	501	GTP	C5'-O5'-PA-O2A
67	HK	501	GTP	C5'-O5'-PA-O3A
67	HK	501	GTP	C5'-O5'-PA-O2A
67	HL	502	GTP	PB-O3B-PG-O2G
67	HN	502	GTP	C5'-O5'-PA-O3A
67	HN	502	GTP	C5'-O5'-PA-O1A
67	HN	502	GTP	C5'-O5'-PA-O2A
67	IC	501	GTP	C5'-O5'-PA-O3A
67	IC	501	GTP	C5'-O5'-PA-O1A
67	IC	501	GTP	C5'-O5'-PA-O2A
67	IC	501	GTP	O4'-C4'-C5'-O5'
67	IE	501	GTP	O4'-C4'-C5'-O5'
67	IG	501	GTP	O4'-C4'-C5'-O5'
67	II	501	GTP	PB-O3B-PG-O2G
67	II	501	GTP	C5'-O5'-PA-O3A
67	II	501	GTP	C5'-O5'-PA-O1A
67	II	501	GTP	C5'-O5'-PA-O2A
67	IK	501	GTP	C5'-O5'-PA-O3A
67	IK	501	GTP	C5'-O5'-PA-O1A
67	IK	501	GTP	C5'-O5'-PA-O2A
67	IM	501	GTP	C5'-O5'-PA-O3A
67	IM	501	GTP	C5'-O5'-PA-O2A
67	JG	501	GTP	O4'-C4'-C5'-O5'
67	JI	501	GTP	C5'-O5'-PA-O3A
67	JI	501	GTP	C5'-O5'-PA-O2A
67	JK	501	GTP	C5'-O5'-PA-O3A
67	JK	501	GTP	C5'-O5'-PA-O2A
67	KC	501	GTP	O4'-C4'-C5'-O5'
67	KI	501	GTP	PB-O3B-PG-O3G
67	KI	501	GTP	C5'-O5'-PA-O3A
67	KI	501	GTP	C5'-O5'-PA-O1A
67	KI	501	GTP	C5'-O5'-PA-O2A
67	KK	501	GTP	C5'-O5'-PA-O3A
67	KK	501	GTP	C5'-O5'-PA-O1A
67	KK	501	GTP	C5'-O5'-PA-O2A
67	KM	501	GTP	PB-O3A-PA-O5'
67	KM	501	GTP	O4'-C4'-C5'-O5'
67	KM	501	GTP	C3'-C4'-C5'-O5'
67	KO	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
67	KO	501	GTP	C5'-O5'-PA-O1A
67	KO	501	GTP	C5'-O5'-PA-O2A
67	LE	501	GTP	C5'-O5'-PA-O3A
67	LE	501	GTP	C5'-O5'-PA-O1A
67	LE	501	GTP	C5'-O5'-PA-O2A
67	LG	501	GTP	C5'-O5'-PA-O3A
67	LG	501	GTP	C5'-O5'-PA-O1A
67	LG	501	GTP	C5'-O5'-PA-O2A
67	LI	501	GTP	C5'-O5'-PA-O3A
67	LI	501	GTP	C5'-O5'-PA-O1A
67	LK	501	GTP	C5'-O5'-PA-O3A
67	LK	501	GTP	C5'-O5'-PA-O1A
67	LK	501	GTP	C5'-O5'-PA-O2A
67	LM	501	GTP	C5'-O5'-PA-O3A
67	LM	501	GTP	C5'-O5'-PA-O1A
67	LM	501	GTP	C5'-O5'-PA-O2A
67	MC	501	GTP	C5'-O5'-PA-O3A
67	MC	501	GTP	C5'-O5'-PA-O2A
67	ME	501	GTP	C5'-O5'-PA-O3A
67	MG	501	GTP	C5'-O5'-PA-O3A
67	MG	501	GTP	C5'-O5'-PA-O1A
67	MG	501	GTP	C5'-O5'-PA-O2A
67	MI	501	GTP	O4'-C4'-C5'-O5'
67	MI	501	GTP	C3'-C4'-C5'-O5'
67	MK	501	GTP	C5'-O5'-PA-O3A
67	MK	501	GTP	C5'-O5'-PA-O1A
67	MK	501	GTP	C5'-O5'-PA-O2A
67	MM	501	GTP	PB-O3B-PG-O3G
67	MM	501	GTP	C5'-O5'-PA-O3A
67	MM	501	GTP	C5'-O5'-PA-O1A
67	MM	501	GTP	C5'-O5'-PA-O2A
67	NA	502	GTP	C5'-O5'-PA-O3A
67	NA	502	GTP	C5'-O5'-PA-O1A
67	NA	502	GTP	C5'-O5'-PA-O2A
67	NB	502	GTP	C5'-O5'-PA-O3A
67	NB	502	GTP	C5'-O5'-PA-O1A
67	NB	502	GTP	C5'-O5'-PA-O2A
67	NB	502	GTP	O4'-C4'-C5'-O5'
67	NF	502	GTP	PB-O3B-PG-O3G
67	NF	502	GTP	C5'-O5'-PA-O1A
67	NF	502	GTP	O4'-C4'-C5'-O5'
67	NI	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
67	NK	501	GTP	C5'-O5'-PA-O1A
67	OC	501	GTP	C5'-O5'-PA-O3A
67	OC	501	GTP	C5'-O5'-PA-O1A
67	OC	501	GTP	C5'-O5'-PA-O2A
67	OC	501	GTP	O4'-C4'-C5'-O5'
67	OC	501	GTP	C3'-C4'-C5'-O5'
67	OF	502	GTP	PB-O3B-PG-O3G
67	OF	502	GTP	C5'-O5'-PA-O1A
67	OH	502	GTP	PB-O3B-PG-O3G
67	OK	501	GTP	C5'-O5'-PA-O1A
67	PA	501	GTP	C5'-O5'-PA-O3A
67	PA	501	GTP	C5'-O5'-PA-O2A
67	PC	501	GTP	C5'-O5'-PA-O3A
67	PC	501	GTP	C5'-O5'-PA-O1A
67	PC	501	GTP	C5'-O5'-PA-O2A
67	PC	501	GTP	O4'-C4'-C5'-O5'
67	PC	501	GTP	C3'-C4'-C5'-O5'
67	PD	502	GTP	C5'-O5'-PA-O3A
67	PD	502	GTP	C5'-O5'-PA-O1A
67	PD	502	GTP	C5'-O5'-PA-O2A
67	PD	502	GTP	O4'-C4'-C5'-O5'
67	PG	501	GTP	C5'-O5'-PA-O3A
67	PG	501	GTP	C5'-O5'-PA-O1A
67	PK	501	GTP	C5'-O5'-PA-O3A
67	PK	501	GTP	C5'-O5'-PA-O2A
67	QA	501	GTP	C5'-O5'-PA-O3A
67	QC	501	GTP	C5'-O5'-PA-O3A
67	QC	501	GTP	C5'-O5'-PA-O1A
67	QC	501	GTP	C5'-O5'-PA-O2A
67	QG	501	GTP	C5'-O5'-PA-O3A
67	QK	501	GTP	C5'-O5'-PA-O3A
67	RA	501	GTP	C5'-O5'-PA-O3A
67	RA	501	GTP	C5'-O5'-PA-O1A
67	RA	501	GTP	C5'-O5'-PA-O2A
67	RB	502	GTP	O4'-C4'-C5'-O5'
67	RE	501	GTP	C5'-O5'-PA-O3A
67	RE	501	GTP	C5'-O5'-PA-O2A
67	RG	501	GTP	C5'-O5'-PA-O3A
67	RI	501	GTP	C5'-O5'-PA-O1A
67	RK	501	GTP	O4'-C4'-C5'-O5'
67	RM	501	GTP	C5'-O5'-PA-O3A
67	RM	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
67	RM	501	GTP	C5'-O5'-PA-O2A
67	SA	501	GTP	C5'-O5'-PA-O1A
67	SA	501	GTP	C5'-O5'-PA-O2A
67	SE	501	GTP	C5'-O5'-PA-O3A
67	SE	501	GTP	C5'-O5'-PA-O2A
67	SF	502	GTP	PB-O3B-PG-O2G
67	SF	502	GTP	PB-O3B-PG-O3G
67	SF	502	GTP	O4'-C4'-C5'-O5'
67	SI	501	GTP	C5'-O5'-PA-O3A
67	SI	501	GTP	C5'-O5'-PA-O1A
67	SI	501	GTP	C5'-O5'-PA-O2A
67	SK	501	GTP	C5'-O5'-PA-O1A
67	SM	501	GTP	O4'-C4'-C5'-O5'
67	SM	501	GTP	C3'-C4'-C5'-O5'
67	TC	501	GTP	C5'-O5'-PA-O3A
67	TC	501	GTP	C5'-O5'-PA-O1A
67	TC	501	GTP	O4'-C4'-C5'-O5'
67	TE	501	GTP	O4'-C4'-C5'-O5'
67	TG	501	GTP	C5'-O5'-PA-O3A
67	TG	501	GTP	C5'-O5'-PA-O1A
67	TG	501	GTP	O4'-C4'-C5'-O5'
67	TI	501	GTP	C5'-O5'-PA-O3A
67	TI	501	GTP	C5'-O5'-PA-O1A
67	TI	501	GTP	O4'-C4'-C5'-O5'
67	TK	501	GTP	O4'-C4'-C5'-O5'
67	TM	501	GTP	C5'-O5'-PA-O1A
67	UC	501	GTP	C5'-O5'-PA-O3A
67	UC	501	GTP	C5'-O5'-PA-O2A
67	UC	501	GTP	O4'-C4'-C5'-O5'
67	UE	501	GTP	O4'-C4'-C5'-O5'
67	UG	501	GTP	O4'-C4'-C5'-O5'
67	UI	501	GTP	O4'-C4'-C5'-O5'
67	UK	501	GTP	O4'-C4'-C5'-O5'
67	UM	501	GTP	O4'-C4'-C5'-O5'
67	UM	501	GTP	C3'-C4'-C5'-O5'
67	VC	501	GTP	C5'-O5'-PA-O3A
67	VC	501	GTP	C5'-O5'-PA-O2A
67	VG	501	GTP	C5'-O5'-PA-O3A
67	VG	501	GTP	C5'-O5'-PA-O1A
67	VG	501	GTP	C5'-O5'-PA-O2A
67	VI	502	GTP	C5'-O5'-PA-O3A
67	VI	502	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
67	VK	501	GTP	PB-O3B-PG-O3G
67	VK	501	GTP	PB-O3A-PA-O5'
67	VK	501	GTP	C5'-O5'-PA-O3A
67	VK	501	GTP	C5'-O5'-PA-O1A
67	VL	502	GTP	C5'-O5'-PA-O3A
67	VL	502	GTP	C5'-O5'-PA-O1A
67	VL	502	GTP	C5'-O5'-PA-O2A
67	WE	501	GTP	C5'-O5'-PA-O3A
67	WE	501	GTP	C5'-O5'-PA-O1A
67	WE	501	GTP	C5'-O5'-PA-O2A
67	WG	501	GTP	C5'-O5'-PA-O3A
67	WI	501	GTP	C5'-O5'-PA-O3A
67	WI	501	GTP	C5'-O5'-PA-O2A
67	WK	501	GTP	C5'-O5'-PA-O3A
67	WK	501	GTP	C5'-O5'-PA-O1A
67	WK	501	GTP	C5'-O5'-PA-O2A
67	WM	501	GTP	C5'-O5'-PA-O3A
67	WM	501	GTP	C5'-O5'-PA-O1A
67	WM	501	GTP	C5'-O5'-PA-O2A
69	AB	501	GDP	C5'-O5'-PA-O1A
69	AD	501	GDP	C5'-O5'-PA-O1A
69	AF	501	GDP	C5'-O5'-PA-O1A
69	AH	501	GDP	C5'-O5'-PA-O1A
69	AJ	501	GDP	C5'-O5'-PA-O1A
69	AL	501	GDP	C5'-O5'-PA-O1A
69	BB	501	GDP	C5'-O5'-PA-O3A
69	BB	501	GDP	C5'-O5'-PA-O1A
69	BF	501	GDP	C5'-O5'-PA-O1A
69	BH	501	GDP	C5'-O5'-PA-O1A
69	BJ	501	GDP	PA-O3A-PB-O3B
69	BJ	501	GDP	C5'-O5'-PA-O3A
69	BJ	501	GDP	C5'-O5'-PA-O1A
69	BL	501	GDP	C5'-O5'-PA-O1A
69	CB	501	GDP	C5'-O5'-PA-O1A
69	CD	501	GDP	PA-O3A-PB-O2B
69	CD	501	GDP	PA-O3A-PB-O3B
69	CF	501	GDP	PA-O3A-PB-O3B
69	CH	501	GDP	C5'-O5'-PA-O1A
69	CJ	501	GDP	PA-O3A-PB-O3B
69	CL	501	GDP	PA-O3A-PB-O3B
69	DB	501	GDP	C5'-O5'-PA-O3A
69	DB	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
69	DB	501	GDP	O4'-C4'-C5'-O5'
69	DD	501	GDP	PA-O3A-PB-O3B
69	DD	501	GDP	C5'-O5'-PA-O3A
69	DD	501	GDP	C5'-O5'-PA-O1A
69	DH	501	GDP	C5'-O5'-PA-O3A
69	DH	501	GDP	O4'-C4'-C5'-O5'
69	DL	501	GDP	PA-O3A-PB-O2B
69	EB	501	GDP	C5'-O5'-PA-O3A
69	ED	501	GDP	PA-O3A-PB-O3B
69	ED	501	GDP	C5'-O5'-PA-O3A
69	ED	501	GDP	C5'-O5'-PA-O1A
69	EF	501	GDP	PA-O3A-PB-O3B
69	EF	501	GDP	C5'-O5'-PA-O3A
69	EF	501	GDP	C5'-O5'-PA-O1A
69	EH	501	GDP	C5'-O5'-PA-O3A
69	EH	501	GDP	C5'-O5'-PA-O1A
69	EJ	501	GDP	PA-O3A-PB-O3B
69	EJ	501	GDP	C5'-O5'-PA-O3A
69	EJ	501	GDP	C5'-O5'-PA-O1A
69	EL	501	GDP	PA-O3A-PB-O3B
69	EL	501	GDP	C5'-O5'-PA-O3A
69	EL	501	GDP	C5'-O5'-PA-O1A
69	EN	501	GDP	PA-O3A-PB-O3B
69	EN	501	GDP	C5'-O5'-PA-O3A
69	FB	501	GDP	PA-O3A-PB-O2B
69	FD	501	GDP	C5'-O5'-PA-O3A
69	FD	501	GDP	C5'-O5'-PA-O1A
69	FD	501	GDP	C5'-O5'-PA-O2A
69	FF	501	GDP	PA-O3A-PB-O3B
69	FF	501	GDP	C5'-O5'-PA-O3A
69	FH	501	GDP	C5'-O5'-PA-O3A
69	FH	501	GDP	C5'-O5'-PA-O1A
69	FH	501	GDP	C5'-O5'-PA-O2A
69	FJ	501	GDP	C5'-O5'-PA-O3A
69	FL	501	GDP	C5'-O5'-PA-O3A
69	FL	501	GDP	C5'-O5'-PA-O2A
69	FN	501	GDP	C5'-O5'-PA-O3A
69	FN	501	GDP	C5'-O5'-PA-O1A
69	GB	501	GDP	O4'-C4'-C5'-O5'
69	GD	501	GDP	O4'-C4'-C5'-O5'
69	GD	501	GDP	C3'-C4'-C5'-O5'
69	GF	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
69	GH	501	GDP	C5'-O5'-PA-O1A
69	GJ	501	GDP	C5'-O5'-PA-O3A
69	GJ	501	GDP	C5'-O5'-PA-O2A
69	GJ	501	GDP	O4'-C4'-C5'-O5'
69	GN	501	GDP	C5'-O5'-PA-O3A
69	GN	501	GDP	C5'-O5'-PA-O1A
69	GN	501	GDP	O4'-C4'-C5'-O5'
69	HB	501	GDP	C5'-O5'-PA-O3A
69	HB	501	GDP	C5'-O5'-PA-O1A
69	HB	501	GDP	C5'-O5'-PA-O2A
69	HD	501	GDP	C5'-O5'-PA-O3A
69	HD	501	GDP	C5'-O5'-PA-O1A
69	HD	501	GDP	C5'-O5'-PA-O2A
69	HF	501	GDP	C5'-O5'-PA-O3A
69	HF	501	GDP	C5'-O5'-PA-O1A
69	HF	501	GDP	C5'-O5'-PA-O2A
69	HH	501	GDP	C5'-O5'-PA-O3A
69	HH	501	GDP	C5'-O5'-PA-O1A
69	HH	501	GDP	C5'-O5'-PA-O2A
69	HJ	501	GDP	C5'-O5'-PA-O3A
69	HJ	501	GDP	C5'-O5'-PA-O1A
69	HJ	501	GDP	C5'-O5'-PA-O2A
69	HL	501	GDP	C5'-O5'-PA-O3A
69	HL	501	GDP	C5'-O5'-PA-O2A
69	HN	501	GDP	C5'-O5'-PA-O3A
69	HN	501	GDP	C5'-O5'-PA-O1A
69	HN	501	GDP	C5'-O5'-PA-O2A
69	IB	501	GDP	C5'-O5'-PA-O3A
69	IB	501	GDP	C5'-O5'-PA-O1A
69	ID	501	GDP	C5'-O5'-PA-O3A
69	ID	501	GDP	C5'-O5'-PA-O2A
69	IH	501	GDP	C5'-O5'-PA-O3A
69	IH	501	GDP	C5'-O5'-PA-O1A
69	IH	501	GDP	C5'-O5'-PA-O2A
69	IJ	501	GDP	C5'-O5'-PA-O3A
69	IJ	501	GDP	C5'-O5'-PA-O1A
69	IN	501	GDP	C5'-O5'-PA-O3A
69	IN	501	GDP	C5'-O5'-PA-O1A
69	IN	501	GDP	C5'-O5'-PA-O2A
69	JB	501	GDP	PA-O3A-PB-O3B
69	JD	501	GDP	C5'-O5'-PA-O3A
69	JD	501	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
69	JD	501	GDP	O4'-C4'-C5'-O5'
69	JF	501	GDP	PA-O3A-PB-O2B
69	JF	501	GDP	PA-O3A-PB-O3B
69	JH	501	GDP	PA-O3A-PB-O2B
69	JH	501	GDP	PA-O3A-PB-O3B
69	JH	501	GDP	C5'-O5'-PA-O1A
69	JJ	501	GDP	PA-O3A-PB-O2B
69	JJ	501	GDP	PA-O3A-PB-O3B
69	KB	501	GDP	PA-O3A-PB-O3B
69	KB	501	GDP	C5'-O5'-PA-O3A
69	KB	501	GDP	C5'-O5'-PA-O2A
69	KB	501	GDP	O4'-C4'-C5'-O5'
69	KD	501	GDP	C5'-O5'-PA-O3A
69	KD	501	GDP	C5'-O5'-PA-O2A
69	KH	501	GDP	C5'-O5'-PA-O3A
69	KH	501	GDP	C5'-O5'-PA-O1A
69	KH	501	GDP	O4'-C4'-C5'-O5'
69	KH	501	GDP	C3'-C4'-C5'-O5'
69	KJ	501	GDP	C5'-O5'-PA-O3A
69	KJ	501	GDP	C5'-O5'-PA-O1A
69	KJ	501	GDP	C5'-O5'-PA-O2A
69	KL	501	GDP	PA-O3A-PB-O3B
69	KN	501	GDP	C5'-O5'-PA-O3A
69	KN	501	GDP	C5'-O5'-PA-O2A
69	LB	501	GDP	C5'-O5'-PA-O3A
69	LB	501	GDP	C5'-O5'-PA-O1A
69	LB	501	GDP	C5'-O5'-PA-O2A
69	LD	501	GDP	C5'-O5'-PA-O3A
69	LF	501	GDP	C5'-O5'-PA-O3A
69	LF	501	GDP	C5'-O5'-PA-O1A
69	LF	501	GDP	C5'-O5'-PA-O2A
69	LH	501	GDP	C5'-O5'-PA-O3A
69	LH	501	GDP	C5'-O5'-PA-O1A
69	LH	501	GDP	C5'-O5'-PA-O2A
69	LJ	501	GDP	C5'-O5'-PA-O3A
69	LJ	501	GDP	C5'-O5'-PA-O2A
69	LL	501	GDP	C5'-O5'-PA-O3A
69	LN	501	GDP	C5'-O5'-PA-O3A
69	MB	501	GDP	C5'-O5'-PA-O3A
69	MB	501	GDP	C5'-O5'-PA-O1A
69	MB	501	GDP	O4'-C4'-C5'-O5'
69	MB	501	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
69	MD	501	GDP	PA-O3A-PB-O3B
69	MD	501	GDP	C5'-O5'-PA-O3A
69	MD	501	GDP	C5'-O5'-PA-O1A
69	MF	501	GDP	C5'-O5'-PA-O1A
69	MH	501	GDP	PA-O3A-PB-O3B
69	MH	501	GDP	C5'-O5'-PA-O3A
69	MH	501	GDP	C5'-O5'-PA-O1A
69	MJ	501	GDP	PA-O3A-PB-O3B
69	MJ	501	GDP	C5'-O5'-PA-O3A
69	MJ	501	GDP	C5'-O5'-PA-O1A
69	ML	501	GDP	PA-O3A-PB-O3B
69	ML	501	GDP	C5'-O5'-PA-O3A
69	ML	501	GDP	C5'-O5'-PA-O1A
69	MN	501	GDP	C5'-O5'-PA-O1A
69	N0	501	GDP	C5'-O5'-PA-O3A
69	NB	501	GDP	C5'-O5'-PA-O3A
69	ND	501	GDP	C5'-O5'-PA-O3A
69	NF	501	GDP	C5'-O5'-PA-O3A
69	NH	501	GDP	C5'-O5'-PA-O3A
69	NH	501	GDP	C5'-O5'-PA-O1A
69	NJ	501	GDP	C5'-O5'-PA-O3A
69	NJ	501	GDP	C5'-O5'-PA-O1A
69	NJ	501	GDP	C5'-O5'-PA-O2A
69	NL	501	GDP	C5'-O5'-PA-O3A
69	O0	501	GDP	PA-O3A-PB-O3B
69	OB	501	GDP	C5'-O5'-PA-O3A
69	OB	501	GDP	C5'-O5'-PA-O2A
69	OF	501	GDP	C5'-O5'-PA-O3A
69	OF	501	GDP	C5'-O5'-PA-O2A
69	OH	501	GDP	PA-O3A-PB-O3B
69	OL	501	GDP	C5'-O5'-PA-O1A
69	PB	501	GDP	PA-O3A-PB-O3B
69	PD	501	GDP	C5'-O5'-PA-O1A
69	PF	501	GDP	C5'-O5'-PA-O1A
69	PH	501	GDP	PA-O3A-PB-O3B
69	PL	501	GDP	PA-O3A-PB-O3B
69	QB	501	GDP	PA-O3A-PB-O3B
69	QF	501	GDP	C5'-O5'-PA-O1A
69	RB	501	GDP	C5'-O5'-PA-O1A
69	RD	501	GDP	PA-O3A-PB-O2B
69	RD	501	GDP	PA-O3A-PB-O3B
69	RD	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
69	RF	501	GDP	C5'-O5'-PA-O1A
69	RJ	501	GDP	C5'-O5'-PA-O1A
69	RL	501	GDP	C5'-O5'-PA-O1A
69	SB	501	GDP	C5'-O5'-PA-O3A
69	SB	501	GDP	C5'-O5'-PA-O2A
69	SD	501	GDP	C5'-O5'-PA-O3A
69	SD	501	GDP	C5'-O5'-PA-O2A
69	SF	501	GDP	C5'-O5'-PA-O3A
69	SF	501	GDP	C5'-O5'-PA-O1A
69	SJ	501	GDP	C5'-O5'-PA-O3A
69	SL	501	GDP	C5'-O5'-PA-O3A
69	SL	501	GDP	C5'-O5'-PA-O1A
69	TB	501	GDP	C5'-O5'-PA-O3A
69	TD	501	GDP	C5'-O5'-PA-O3A
69	TD	501	GDP	C5'-O5'-PA-O2A
69	TF	501	GDP	C5'-O5'-PA-O3A
69	TF	501	GDP	C5'-O5'-PA-O2A
69	TH	501	GDP	C5'-O5'-PA-O3A
69	TH	501	GDP	C5'-O5'-PA-O1A
69	TJ	501	GDP	C5'-O5'-PA-O3A
69	TL	501	GDP	C5'-O5'-PA-O1A
69	UB	501	GDP	PA-O3A-PB-O3B
69	UD	501	GDP	C5'-O5'-PA-O3A
69	UD	501	GDP	C5'-O5'-PA-O1A
69	UF	501	GDP	C5'-O5'-PA-O1A
69	UL	501	GDP	C5'-O5'-PA-O1A
69	UN	501	GDP	C5'-O5'-PA-O1A
69	VB	501	GDP	O4'-C4'-C5'-O5'
69	VB	501	GDP	C3'-C4'-C5'-O5'
69	VF	501	GDP	PA-O3A-PB-O3B
69	VH	501	GDP	O4'-C4'-C5'-O5'
69	VJ	501	GDP	PA-O3A-PB-O3B
69	VN	501	GDP	C5'-O5'-PA-O3A
69	WD	501	GDP	PA-O3A-PB-O3B
69	WF	501	GDP	PA-O3A-PB-O3B
69	WH	501	GDP	PA-O3A-PB-O3B
69	WL	501	GDP	PA-O3A-PB-O3B
69	WL	501	GDP	O4'-C4'-C5'-O5'
67	CG	501	GTP	C3'-C4'-C5'-O5'
67	DC	501	GTP	C3'-C4'-C5'-O5'
67	DF	502	GTP	C3'-C4'-C5'-O5'
67	EC	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
67	FM	501	GTP	C3'-C4'-C5'-O5'
67	GC	501	GTP	C3'-C4'-C5'-O5'
67	HC	501	GTP	O4'-C4'-C5'-O5'
67	HC	501	GTP	C3'-C4'-C5'-O5'
67	HI	501	GTP	C3'-C4'-C5'-O5'
67	IC	501	GTP	C3'-C4'-C5'-O5'
67	IE	501	GTP	C3'-C4'-C5'-O5'
67	JG	501	GTP	C3'-C4'-C5'-O5'
67	KC	501	GTP	C3'-C4'-C5'-O5'
67	LI	501	GTP	O4'-C4'-C5'-O5'
67	MC	501	GTP	O4'-C4'-C5'-O5'
67	MC	501	GTP	C3'-C4'-C5'-O5'
67	NB	502	GTP	C3'-C4'-C5'-O5'
67	NF	502	GTP	C3'-C4'-C5'-O5'
67	PD	502	GTP	C3'-C4'-C5'-O5'
67	QC	501	GTP	O4'-C4'-C5'-O5'
67	QC	501	GTP	C3'-C4'-C5'-O5'
67	RB	502	GTP	C3'-C4'-C5'-O5'
67	RI	501	GTP	C3'-C4'-C5'-O5'
67	RK	501	GTP	C3'-C4'-C5'-O5'
67	SF	502	GTP	C3'-C4'-C5'-O5'
67	TC	501	GTP	C3'-C4'-C5'-O5'
67	TE	501	GTP	C3'-C4'-C5'-O5'
67	TG	501	GTP	C3'-C4'-C5'-O5'
67	TI	501	GTP	C3'-C4'-C5'-O5'
67	TK	501	GTP	C3'-C4'-C5'-O5'
67	TM	501	GTP	O4'-C4'-C5'-O5'
67	TM	501	GTP	C3'-C4'-C5'-O5'
67	UC	501	GTP	C3'-C4'-C5'-O5'
67	UE	501	GTP	C3'-C4'-C5'-O5'
67	UK	501	GTP	C3'-C4'-C5'-O5'
67	VE	501	GTP	C3'-C4'-C5'-O5'
67	WG	501	GTP	C3'-C4'-C5'-O5'
67	WK	501	GTP	O4'-C4'-C5'-O5'
67	WK	501	GTP	C3'-C4'-C5'-O5'
69	BH	501	GDP	C3'-C4'-C5'-O5'
69	CH	501	GDP	O4'-C4'-C5'-O5'
69	DB	501	GDP	C3'-C4'-C5'-O5'
69	DH	501	GDP	C3'-C4'-C5'-O5'
69	GB	501	GDP	C3'-C4'-C5'-O5'
69	GH	501	GDP	O4'-C4'-C5'-O5'
69	GH	501	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
69	GL	501	GDP	O4'-C4'-C5'-O5'
69	GL	501	GDP	C3'-C4'-C5'-O5'
69	GN	501	GDP	C3'-C4'-C5'-O5'
69	HJ	501	GDP	C3'-C4'-C5'-O5'
69	JH	501	GDP	C3'-C4'-C5'-O5'
69	KN	501	GDP	O4'-C4'-C5'-O5'
69	KN	501	GDP	C3'-C4'-C5'-O5'
69	MD	501	GDP	O4'-C4'-C5'-O5'
69	MD	501	GDP	C3'-C4'-C5'-O5'
69	ML	501	GDP	O4'-C4'-C5'-O5'
69	ML	501	GDP	C3'-C4'-C5'-O5'
69	O0	501	GDP	O4'-C4'-C5'-O5'
69	O0	501	GDP	C3'-C4'-C5'-O5'
69	OJ	501	GDP	O4'-C4'-C5'-O5'
69	OJ	501	GDP	C3'-C4'-C5'-O5'
69	SB	501	GDP	O4'-C4'-C5'-O5'
69	SB	501	GDP	C3'-C4'-C5'-O5'
69	VF	501	GDP	O4'-C4'-C5'-O5'
69	VF	501	GDP	C3'-C4'-C5'-O5'
69	VH	501	GDP	C3'-C4'-C5'-O5'
69	WJ	501	GDP	O4'-C4'-C5'-O5'
69	WJ	501	GDP	C3'-C4'-C5'-O5'
69	WL	501	GDP	C3'-C4'-C5'-O5'
67	EI	501	GTP	C4'-C5'-O5'-PA
67	CG	501	GTP	O4'-C4'-C5'-O5'
67	DC	501	GTP	O4'-C4'-C5'-O5'
67	DM	501	GTP	O4'-C4'-C5'-O5'
67	DM	501	GTP	C3'-C4'-C5'-O5'
67	EK	501	GTP	C3'-C4'-C5'-O5'
67	GJ	502	GTP	C3'-C4'-C5'-O5'
67	HE	501	GTP	C3'-C4'-C5'-O5'
67	LE	501	GTP	C3'-C4'-C5'-O5'
67	LI	501	GTP	C3'-C4'-C5'-O5'
67	NK	501	GTP	O4'-C4'-C5'-O5'
67	NK	501	GTP	C3'-C4'-C5'-O5'
67	QE	501	GTP	C3'-C4'-C5'-O5'
67	VE	501	GTP	O4'-C4'-C5'-O5'
69	CH	501	GDP	C3'-C4'-C5'-O5'
69	JB	501	GDP	O4'-C4'-C5'-O5'
69	JB	501	GDP	C3'-C4'-C5'-O5'
69	JF	501	GDP	O4'-C4'-C5'-O5'
69	JF	501	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
69	JH	501	GDP	O4'-C4'-C5'-O5'
69	JN	501	GDP	C3'-C4'-C5'-O5'
69	MH	501	GDP	C3'-C4'-C5'-O5'
69	OL	501	GDP	O4'-C4'-C5'-O5'
69	OL	501	GDP	C3'-C4'-C5'-O5'
69	VL	501	GDP	O4'-C4'-C5'-O5'
69	VL	501	GDP	C3'-C4'-C5'-O5'
67	IG	501	GTP	C3'-C4'-C5'-O5'
67	JM	501	GTP	O4'-C4'-C5'-O5'
67	JM	501	GTP	C3'-C4'-C5'-O5'
67	UG	501	GTP	C3'-C4'-C5'-O5'
67	UI	501	GTP	C3'-C4'-C5'-O5'
69	BH	501	GDP	O4'-C4'-C5'-O5'
69	GJ	501	GDP	C3'-C4'-C5'-O5'
69	JN	501	GDP	O4'-C4'-C5'-O5'
69	KB	501	GDP	C3'-C4'-C5'-O5'
67	BK	501	GTP	C4'-C5'-O5'-PA
67	GC	501	GTP	O4'-C4'-C5'-O5'
67	GI	501	GTP	C3'-C4'-C5'-O5'
67	HK	501	GTP	C3'-C4'-C5'-O5'
67	IK	501	GTP	C3'-C4'-C5'-O5'
67	KE	501	GTP	O4'-C4'-C5'-O5'
67	KE	501	GTP	C3'-C4'-C5'-O5'
67	SK	501	GTP	C3'-C4'-C5'-O5'
67	WG	501	GTP	O4'-C4'-C5'-O5'
69	BL	501	GDP	C3'-C4'-C5'-O5'
69	CJ	501	GDP	C3'-C4'-C5'-O5'
69	IL	501	GDP	C3'-C4'-C5'-O5'
69	JD	501	GDP	C3'-C4'-C5'-O5'
69	QB	501	GDP	C3'-C4'-C5'-O5'
67	BI	501	GTP	C3'-C4'-C5'-O5'
67	GJ	502	GTP	O4'-C4'-C5'-O5'
67	HE	501	GTP	O4'-C4'-C5'-O5'
67	HG	502	GTP	O4'-C4'-C5'-O5'
67	HI	501	GTP	O4'-C4'-C5'-O5'
67	HK	501	GTP	O4'-C4'-C5'-O5'
67	LE	501	GTP	O4'-C4'-C5'-O5'
67	NA	502	GTP	C3'-C4'-C5'-O5'
67	QM	501	GTP	O4'-C4'-C5'-O5'
67	QM	501	GTP	C3'-C4'-C5'-O5'
67	RI	501	GTP	O4'-C4'-C5'-O5'
67	SK	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
69	BF	501	GDP	C3'-C4'-C5'-O5'
69	HJ	501	GDP	O4'-C4'-C5'-O5'
69	IL	501	GDP	O4'-C4'-C5'-O5'
69	MH	501	GDP	O4'-C4'-C5'-O5'
69	OD	501	GDP	C3'-C4'-C5'-O5'
67	AA	501	GTP	C4'-C5'-O5'-PA
67	BA	501	GTP	C4'-C5'-O5'-PA
67	BE	501	GTP	C4'-C5'-O5'-PA
67	DC	501	GTP	C4'-C5'-O5'-PA
67	IK	501	GTP	C4'-C5'-O5'-PA
67	ME	501	GTP	C4'-C5'-O5'-PA
67	PD	502	GTP	C4'-C5'-O5'-PA
67	AA	501	GTP	C3'-C4'-C5'-O5'
67	EC	501	GTP	O4'-C4'-C5'-O5'
67	GI	501	GTP	O4'-C4'-C5'-O5'
67	HG	502	GTP	C3'-C4'-C5'-O5'
67	VG	501	GTP	C3'-C4'-C5'-O5'
69	CJ	501	GDP	O4'-C4'-C5'-O5'
67	HE	501	GTP	C4'-C5'-O5'-PA
69	EB	501	GDP	PA-O3A-PB-O1B
69	ED	501	GDP	PA-O3A-PB-O1B
69	EF	501	GDP	PA-O3A-PB-O1B
69	FF	501	GDP	PA-O3A-PB-O1B
69	IF	501	GDP	PA-O3A-PB-O1B
69	MB	501	GDP	PA-O3A-PB-O1B
67	JE	501	GTP	O4'-C4'-C5'-O5'
67	LG	501	GTP	C3'-C4'-C5'-O5'
67	RE	501	GTP	C3'-C4'-C5'-O5'
67	SC	501	GTP	O4'-C4'-C5'-O5'
69	BL	501	GDP	O4'-C4'-C5'-O5'
69	MN	501	GDP	C3'-C4'-C5'-O5'
69	TB	501	GDP	C3'-C4'-C5'-O5'
69	WH	501	GDP	C3'-C4'-C5'-O5'
67	FC	501	GTP	PA-O3A-PB-O1B
67	FM	501	GTP	PB-O3A-PA-O1A
67	GC	501	GTP	PA-O3A-PB-O1B
67	OH	502	GTP	PA-O3A-PB-O1B
69	KF	501	GDP	PB-O3A-PA-O1A
67	AC	501	GTP	C4'-C5'-O5'-PA
67	CA	501	GTP	C4'-C5'-O5'-PA
67	CG	501	GTP	C4'-C5'-O5'-PA
67	HI	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
67	HN	502	GTP	C4'-C5'-O5'-PA
67	JI	501	GTP	C4'-C5'-O5'-PA
67	JK	501	GTP	C4'-C5'-O5'-PA
67	LE	501	GTP	C4'-C5'-O5'-PA
67	MK	501	GTP	C4'-C5'-O5'-PA
67	NA	502	GTP	C4'-C5'-O5'-PA
67	QI	501	GTP	C4'-C5'-O5'-PA
67	UE	501	GTP	C4'-C5'-O5'-PA
67	JE	501	GTP	C3'-C4'-C5'-O5'
67	QE	501	GTP	O4'-C4'-C5'-O5'
67	AG	501	GTP	C4'-C5'-O5'-PA
67	BC	501	GTP	C4'-C5'-O5'-PA
67	EG	501	GTP	C4'-C5'-O5'-PA
67	GJ	502	GTP	C4'-C5'-O5'-PA
67	IM	501	GTP	C4'-C5'-O5'-PA
67	OC	501	GTP	C4'-C5'-O5'-PA
67	QE	501	GTP	C4'-C5'-O5'-PA
67	UM	501	GTP	C4'-C5'-O5'-PA
67	VG	501	GTP	O4'-C4'-C5'-O5'
67	KE	501	GTP	PB-O3A-PA-O5'
67	KG	501	GTP	PB-O3A-PA-O5'
67	QA	501	GTP	PB-O3A-PA-O5'
67	RA	501	GTP	PB-O3A-PA-O5'
67	CA	501	GTP	C3'-C4'-C5'-O5'
67	EE	501	GTP	C3'-C4'-C5'-O5'
67	MM	501	GTP	C3'-C4'-C5'-O5'
69	BB	501	GDP	C3'-C4'-C5'-O5'
69	CD	501	GDP	C3'-C4'-C5'-O5'
69	LD	501	GDP	C3'-C4'-C5'-O5'
69	DF	501	GDP	PA-O3A-PB-O1B
69	DJ	501	GDP	PA-O3A-PB-O1B
69	EH	501	GDP	PA-O3A-PB-O1B
69	EN	501	GDP	PA-O3A-PB-O1B
69	VF	501	GDP	PA-O3A-PB-O1B
67	KI	501	GTP	PB-O3B-PG-O2G
67	VK	501	GTP	PB-O3B-PG-O2G
69	BB	501	GDP	PA-O3A-PB-O2B
69	BH	501	GDP	PA-O3A-PB-O2B
69	CH	501	GDP	PA-O3A-PB-O3B
69	JL	501	GDP	PA-O3A-PB-O2B
69	JL	501	GDP	PA-O3A-PB-O3B
69	MB	501	GDP	PA-O3A-PB-O3B

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Mol	Chain	Res	Type	Atoms
69	UB	501	GDP	PA-O3A-PB-O2B
69	UD	501	GDP	PA-O3A-PB-O3B
69	WH	501	GDP	PA-O3A-PB-O2B
69	WL	501	GDP	PA-O3A-PB-O2B
67	BI	501	GTP	O4'-C4'-C5'-O5'
67	BM	501	GTP	C3'-C4'-C5'-O5'
67	JC	501	GTP	O4'-C4'-C5'-O5'
67	JC	501	GTP	C3'-C4'-C5'-O5'
67	OK	501	GTP	C3'-C4'-C5'-O5'
67	VK	501	GTP	C3'-C4'-C5'-O5'
69	KF	501	GDP	C3'-C4'-C5'-O5'
69	MF	501	GDP	C3'-C4'-C5'-O5'
69	MJ	501	GDP	C3'-C4'-C5'-O5'
69	SD	501	GDP	C3'-C4'-C5'-O5'
67	QM	501	GTP	C4'-C5'-O5'-PA
67	RM	501	GTP	C4'-C5'-O5'-PA
67	AD	502	GTP	PB-O3A-PA-O2A
67	EE	501	GTP	PG-O3B-PB-O1B
67	GM	501	GTP	PG-O3B-PB-O1B
67	GM	501	GTP	PA-O3A-PB-O2B
67	HK	501	GTP	PB-O3A-PA-O1A
67	IN	502	GTP	PA-O3A-PB-O1B
67	KG	501	GTP	PA-O3A-PB-O1B
67	LG	501	GTP	PA-O3A-PB-O2B
67	NE	501	GTP	PA-O3A-PB-O2B
67	RA	501	GTP	PA-O3A-PB-O2B
67	SM	501	GTP	PA-O3A-PB-O2B
67	WG	501	GTP	PA-O3A-PB-O1B
69	KN	501	GDP	PB-O3A-PA-O2A
69	VL	501	GDP	PB-O3A-PA-O1A
67	O0	502	GTP	PA-O3A-PB-O3B
69	PD	501	GDP	C3'-C4'-C5'-O5'
69	TF	501	GDP	C3'-C4'-C5'-O5'
67	BG	501	GTP	C4'-C5'-O5'-PA
67	BM	501	GTP	C4'-C5'-O5'-PA
67	CB	502	GTP	C4'-C5'-O5'-PA
67	DE	501	GTP	C4'-C5'-O5'-PA
67	EC	501	GTP	C4'-C5'-O5'-PA
67	LG	501	GTP	C4'-C5'-O5'-PA
67	LI	501	GTP	C4'-C5'-O5'-PA
67	MM	501	GTP	C4'-C5'-O5'-PA
67	NI	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
67	PA	501	GTP	C4'-C5'-O5'-PA
67	RA	501	GTP	C4'-C5'-O5'-PA
67	RE	501	GTP	C4'-C5'-O5'-PA
67	SF	502	GTP	C4'-C5'-O5'-PA
67	VG	501	GTP	C4'-C5'-O5'-PA
67	WE	501	GTP	C4'-C5'-O5'-PA
67	WK	501	GTP	C4'-C5'-O5'-PA
67	LG	501	GTP	O4'-C4'-C5'-O5'
69	BF	501	GDP	O4'-C4'-C5'-O5'
69	OD	501	GDP	O4'-C4'-C5'-O5'
67	AD	502	GTP	C5'-O5'-PA-O2A
67	AK	501	GTP	C5'-O5'-PA-O2A
67	BC	501	GTP	C5'-O5'-PA-O2A
67	BE	501	GTP	C5'-O5'-PA-O1A
67	DM	501	GTP	C5'-O5'-PA-O3A
67	EE	501	GTP	C5'-O5'-PA-O1A
67	EG	501	GTP	C5'-O5'-PA-O2A
67	FE	501	GTP	C5'-O5'-PA-O3A
67	FE	501	GTP	C5'-O5'-PA-O1A
67	GE	501	GTP	C5'-O5'-PA-O2A
67	GJ	502	GTP	C5'-O5'-PA-O2A
67	HK	501	GTP	C5'-O5'-PA-O1A
67	HL	502	GTP	C5'-O5'-PA-O1A
67	IG	501	GTP	C5'-O5'-PA-O3A
67	JM	501	GTP	C5'-O5'-PA-O1A
67	KG	501	GTP	C5'-O5'-PA-O1A
67	KM	501	GTP	C5'-O5'-PA-O1A
67	LI	501	GTP	C5'-O5'-PA-O2A
67	MC	501	GTP	C5'-O5'-PA-O1A
67	ME	501	GTP	C5'-O5'-PA-O2A
67	NI	501	GTP	C5'-O5'-PA-O3A
67	NI	501	GTP	C5'-O5'-PA-O2A
67	OF	502	GTP	C5'-O5'-PA-O3A
67	OF	502	GTP	C5'-O5'-PA-O2A
67	PI	501	GTP	C5'-O5'-PA-O3A
67	PI	501	GTP	C5'-O5'-PA-O1A
67	PI	501	GTP	C5'-O5'-PA-O2A
67	PK	501	GTP	C5'-O5'-PA-O1A
67	PM	501	GTP	C5'-O5'-PA-O1A
67	QA	501	GTP	C5'-O5'-PA-O1A
67	QG	501	GTP	C5'-O5'-PA-O1A
67	QK	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
67	RG	501	GTP	C5'-O5'-PA-O1A
67	RI	501	GTP	C5'-O5'-PA-O3A
67	RI	501	GTP	C5'-O5'-PA-O2A
67	SA	501	GTP	C5'-O5'-PA-O3A
67	SC	501	GTP	C5'-O5'-PA-O3A
67	SC	501	GTP	C5'-O5'-PA-O1A
67	SF	502	GTP	C5'-O5'-PA-O1A
67	SK	501	GTP	C5'-O5'-PA-O2A
67	SM	501	GTP	C5'-O5'-PA-O3A
67	SM	501	GTP	C5'-O5'-PA-O1A
67	UC	501	GTP	C5'-O5'-PA-O1A
67	UI	501	GTP	C5'-O5'-PA-O3A
67	UI	501	GTP	C5'-O5'-PA-O1A
67	VC	501	GTP	C5'-O5'-PA-O1A
67	VI	502	GTP	C5'-O5'-PA-O2A
67	WG	501	GTP	C5'-O5'-PA-O1A
69	AJ	501	GDP	C5'-O5'-PA-O3A
69	DH	501	GDP	C5'-O5'-PA-O1A
69	EB	501	GDP	C5'-O5'-PA-O1A
69	EN	501	GDP	C5'-O5'-PA-O1A
69	FF	501	GDP	C5'-O5'-PA-O1A
69	FJ	501	GDP	C5'-O5'-PA-O1A
69	FL	501	GDP	C5'-O5'-PA-O1A
69	GB	501	GDP	C5'-O5'-PA-O1A
69	GF	501	GDP	C5'-O5'-PA-O3A
69	HL	501	GDP	C5'-O5'-PA-O1A
69	ID	501	GDP	C5'-O5'-PA-O1A
69	JB	501	GDP	C5'-O5'-PA-O1A
69	JJ	501	GDP	C5'-O5'-PA-O1A
69	JL	501	GDP	C5'-O5'-PA-O1A
69	KB	501	GDP	C5'-O5'-PA-O1A
69	KD	501	GDP	C5'-O5'-PA-O1A
69	KN	501	GDP	C5'-O5'-PA-O1A
69	LD	501	GDP	C5'-O5'-PA-O1A
69	LJ	501	GDP	C5'-O5'-PA-O1A
69	LL	501	GDP	C5'-O5'-PA-O1A
69	LN	501	GDP	C5'-O5'-PA-O1A
69	MF	501	GDP	C5'-O5'-PA-O3A
69	N0	501	GDP	C5'-O5'-PA-O1A
69	NB	501	GDP	C5'-O5'-PA-O1A
69	ND	501	GDP	C5'-O5'-PA-O1A
69	ND	501	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
69	NF	501	GDP	C5'-O5'-PA-O1A
69	NL	501	GDP	C5'-O5'-PA-O1A
69	O0	501	GDP	C5'-O5'-PA-O1A
69	OB	501	GDP	C5'-O5'-PA-O1A
69	OD	501	GDP	C5'-O5'-PA-O1A
69	OF	501	GDP	C5'-O5'-PA-O1A
69	OJ	501	GDP	C5'-O5'-PA-O1A
69	PH	501	GDP	C5'-O5'-PA-O1A
69	PJ	501	GDP	C5'-O5'-PA-O1A
69	QB	501	GDP	C5'-O5'-PA-O1A
69	QH	501	GDP	C5'-O5'-PA-O1A
69	RH	501	GDP	C5'-O5'-PA-O1A
69	RJ	501	GDP	C5'-O5'-PA-O3A
69	SB	501	GDP	C5'-O5'-PA-O1A
69	SD	501	GDP	C5'-O5'-PA-O1A
69	SJ	501	GDP	C5'-O5'-PA-O1A
69	TB	501	GDP	C5'-O5'-PA-O1A
69	TD	501	GDP	C5'-O5'-PA-O1A
69	TF	501	GDP	C5'-O5'-PA-O1A
69	TJ	501	GDP	C5'-O5'-PA-O1A
69	UJ	501	GDP	C5'-O5'-PA-O1A
69	UL	501	GDP	C5'-O5'-PA-O3A
69	VF	501	GDP	C5'-O5'-PA-O1A
69	WB	501	GDP	C5'-O5'-PA-O1A
69	WD	501	GDP	C5'-O5'-PA-O1A
69	WF	501	GDP	C5'-O5'-PA-O1A
67	AD	502	GTP	C4'-C5'-O5'-PA
67	AK	501	GTP	C4'-C5'-O5'-PA
67	BI	501	GTP	C4'-C5'-O5'-PA
67	CL	502	GTP	C4'-C5'-O5'-PA
67	DA	501	GTP	C4'-C5'-O5'-PA
67	DF	502	GTP	C4'-C5'-O5'-PA
67	FI	501	GTP	C4'-C5'-O5'-PA
67	GC	501	GTP	C4'-C5'-O5'-PA
67	GE	501	GTP	C4'-C5'-O5'-PA
67	GG	501	GTP	C4'-C5'-O5'-PA
67	II	501	GTP	C4'-C5'-O5'-PA
67	KC	501	GTP	C4'-C5'-O5'-PA
67	KI	501	GTP	C4'-C5'-O5'-PA
67	KK	501	GTP	C4'-C5'-O5'-PA
67	KM	501	GTP	C4'-C5'-O5'-PA
67	LM	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
67	MI	501	GTP	C4'-C5'-O5'-PA
67	NB	502	GTP	C4'-C5'-O5'-PA
67	NE	501	GTP	C4'-C5'-O5'-PA
67	O0	502	GTP	C4'-C5'-O5'-PA
67	OF	502	GTP	C4'-C5'-O5'-PA
67	RB	502	GTP	C4'-C5'-O5'-PA
67	RI	501	GTP	C4'-C5'-O5'-PA
67	SE	501	GTP	C4'-C5'-O5'-PA
67	SM	501	GTP	C4'-C5'-O5'-PA
67	TC	501	GTP	C4'-C5'-O5'-PA
67	TE	501	GTP	C4'-C5'-O5'-PA
67	UC	501	GTP	C4'-C5'-O5'-PA
67	UI	501	GTP	C4'-C5'-O5'-PA
67	UK	501	GTP	C4'-C5'-O5'-PA
67	VE	501	GTP	C4'-C5'-O5'-PA
67	VI	502	GTP	C4'-C5'-O5'-PA
67	VL	502	GTP	C4'-C5'-O5'-PA
69	LD	501	GDP	C4'-C5'-O5'-PA
67	EG	501	GTP	PB-O3B-PG-O1G
69	CJ	501	GDP	PA-O3A-PB-O1B
69	CL	501	GDP	PA-O3A-PB-O1B
69	DD	501	GDP	PA-O3A-PB-O1B
69	JN	501	GDP	PA-O3A-PB-O1B
69	MD	501	GDP	PA-O3A-PB-O1B
69	VJ	501	GDP	PA-O3A-PB-O1B
69	WN	501	GDP	PA-O3A-PB-O1B
67	KI	501	GTP	C3'-C4'-C5'-O5'
69	LN	501	GDP	C3'-C4'-C5'-O5'
69	TB	501	GDP	O4'-C4'-C5'-O5'
69	UD	501	GDP	C3'-C4'-C5'-O5'
69	WH	501	GDP	O4'-C4'-C5'-O5'
67	AM	501	GTP	C4'-C5'-O5'-PA
67	GM	501	GTP	C4'-C5'-O5'-PA
67	LK	501	GTP	C4'-C5'-O5'-PA
67	SI	501	GTP	C4'-C5'-O5'-PA
67	WG	501	GTP	C4'-C5'-O5'-PA
67	EE	501	GTP	PA-O3A-PB-O3B
67	AM	501	GTP	PA-O3A-PB-O2B
67	BM	501	GTP	PB-O3A-PA-O1A
67	DC	501	GTP	PA-O3A-PB-O2B
67	DF	502	GTP	PA-O3A-PB-O2B
67	EC	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
67	EG	501	GTP	PA-O3A-PB-O2B
67	EI	501	GTP	PA-O3A-PB-O2B
67	GJ	502	GTP	PA-O3A-PB-O2B
67	IK	501	GTP	PA-O3A-PB-O2B
67	KI	501	GTP	PA-O3A-PB-O2B
67	LE	501	GTP	PA-O3A-PB-O2B
67	MK	501	GTP	PA-O3A-PB-O2B
67	NI	501	GTP	PA-O3A-PB-O2B
67	OE	501	GTP	PA-O3A-PB-O2B
67	OF	502	GTP	PA-O3A-PB-O2B
67	OH	502	GTP	PA-O3A-PB-O2B
67	PI	501	GTP	PG-O3B-PB-O1B
67	SC	501	GTP	PA-O3A-PB-O1B
67	SC	501	GTP	PA-O3A-PB-O2B
67	VI	502	GTP	PA-O3A-PB-O2B
67	BC	501	GTP	C3'-C4'-C5'-O5'
67	DK	501	GTP	O4'-C4'-C5'-O5'
67	FE	501	GTP	C3'-C4'-C5'-O5'
67	LM	501	GTP	C3'-C4'-C5'-O5'
67	RA	501	GTP	C3'-C4'-C5'-O5'
67	WC	501	GTP	C3'-C4'-C5'-O5'
69	DJ	501	GDP	C3'-C4'-C5'-O5'
69	SF	501	GDP	C3'-C4'-C5'-O5'
67	WC	501	GTP	O4'-C4'-C5'-O5'
67	CH	502	GTP	C4'-C5'-O5'-PA
67	CJ	502	GTP	C4'-C5'-O5'-PA
67	FC	501	GTP	C4'-C5'-O5'-PA
67	KG	501	GTP	C4'-C5'-O5'-PA
67	KO	501	GTP	C4'-C5'-O5'-PA
67	OK	501	GTP	C4'-C5'-O5'-PA
67	RK	501	GTP	C4'-C5'-O5'-PA
69	TL	501	GDP	C4'-C5'-O5'-PA
69	EJ	501	GDP	PA-O3A-PB-O1B
69	JB	501	GDP	PA-O3A-PB-O1B
69	KF	501	GDP	PA-O3A-PB-O1B
69	KL	501	GDP	PA-O3A-PB-O1B
69	OH	501	GDP	PA-O3A-PB-O1B
67	IK	501	GTP	O4'-C4'-C5'-O5'
69	IB	501	GDP	C3'-C4'-C5'-O5'
69	MN	501	GDP	O4'-C4'-C5'-O5'
67	DI	501	GTP	C4'-C5'-O5'-PA
67	IE	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
67	KE	501	GTP	C4'-C5'-O5'-PA
67	NK	501	GTP	C4'-C5'-O5'-PA
67	TG	501	GTP	C4'-C5'-O5'-PA
67	TI	501	GTP	C4'-C5'-O5'-PA
69	IH	501	GDP	C4'-C5'-O5'-PA
67	BM	501	GTP	O4'-C4'-C5'-O5'
67	EE	501	GTP	O4'-C4'-C5'-O5'
67	OK	501	GTP	O4'-C4'-C5'-O5'
69	BB	501	GDP	O4'-C4'-C5'-O5'
69	CD	501	GDP	O4'-C4'-C5'-O5'
69	SD	501	GDP	O4'-C4'-C5'-O5'
69	WD	501	GDP	C3'-C4'-C5'-O5'
67	BC	501	GTP	PA-O3A-PB-O2B
67	LI	501	GTP	PA-O3A-PB-O2B
67	NI	501	GTP	PA-O3A-PB-O1B
67	O0	502	GTP	PG-O3B-PB-O1B
67	OF	502	GTP	PG-O3B-PB-O1B
67	VE	501	GTP	PB-O3A-PA-O1A
67	VL	502	GTP	PG-O3B-PB-O1B
67	FG	501	GTP	C2'-C1'-N9-C8
67	LG	501	GTP	PB-O3A-PA-O5'
67	AH	502	GTP	C4'-C5'-O5'-PA
67	JM	501	GTP	C4'-C5'-O5'-PA
67	OE	501	GTP	C4'-C5'-O5'-PA
67	OH	502	GTP	C4'-C5'-O5'-PA
67	TM	501	GTP	C4'-C5'-O5'-PA
67	UG	501	GTP	C4'-C5'-O5'-PA
69	UL	501	GDP	C4'-C5'-O5'-PA
67	VK	501	GTP	O4'-C4'-C5'-O5'
69	DJ	501	GDP	O4'-C4'-C5'-O5'
69	MF	501	GDP	O4'-C4'-C5'-O5'
69	TD	501	GDP	C3'-C4'-C5'-O5'
69	WN	501	GDP	C3'-C4'-C5'-O5'
67	CD	502	GTP	C4'-C5'-O5'-PA
67	MC	501	GTP	C4'-C5'-O5'-PA
67	VK	501	GTP	C4'-C5'-O5'-PA
69	RL	501	GDP	C3'-C4'-C5'-O5'
67	BI	501	GTP	PB-O3B-PG-O1G
69	CD	501	GDP	PA-O3A-PB-O1B
69	CF	501	GDP	PA-O3A-PB-O1B
69	DL	501	GDP	PA-O3A-PB-O1B
69	EL	501	GDP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
69	FB	501	GDP	PA-O3A-PB-O1B
69	JH	501	GDP	PA-O3A-PB-O1B
69	MJ	501	GDP	PA-O3A-PB-O1B
69	ML	501	GDP	PA-O3A-PB-O1B
69	O0	501	GDP	PA-O3A-PB-O1B
69	PL	501	GDP	PA-O3A-PB-O1B
69	QB	501	GDP	PA-O3A-PB-O1B
69	WF	501	GDP	PA-O3A-PB-O1B
69	WH	501	GDP	PA-O3A-PB-O1B
69	WL	501	GDP	PA-O3A-PB-O1B
67	AD	502	GTP	PB-O3B-PG-O2G
67	EG	501	GTP	PB-O3B-PG-O2G
67	EG	501	GTP	PB-O3B-PG-O3G
67	EI	501	GTP	PB-O3B-PG-O2G
67	EK	501	GTP	PB-O3B-PG-O2G
67	MM	501	GTP	PB-O3B-PG-O2G
67	NF	502	GTP	PB-O3B-PG-O2G
67	OF	502	GTP	PB-O3B-PG-O2G
67	OH	502	GTP	PB-O3B-PG-O2G
69	BF	501	GDP	PA-O3A-PB-O2B
69	BJ	501	GDP	PA-O3A-PB-O2B
69	BL	501	GDP	PA-O3A-PB-O2B
69	CF	501	GDP	PA-O3A-PB-O2B
69	CH	501	GDP	PA-O3A-PB-O2B
69	DF	501	GDP	PA-O3A-PB-O2B
69	DF	501	GDP	PA-O3A-PB-O3B
69	MH	501	GDP	PA-O3A-PB-O2B
69	PB	501	GDP	PA-O3A-PB-O2B
69	PL	501	GDP	PA-O3A-PB-O2B
69	UD	501	GDP	PA-O3A-PB-O2B
69	WD	501	GDP	PA-O3A-PB-O2B
67	GI	501	GTP	C4'-C5'-O5'-PA
67	FE	501	GTP	O4'-C4'-C5'-O5'
67	KI	501	GTP	O4'-C4'-C5'-O5'
67	EI	501	GTP	C3'-C4'-C5'-O5'
67	FK	501	GTP	C3'-C4'-C5'-O5'
67	LM	501	GTP	O4'-C4'-C5'-O5'
67	MG	501	GTP	C3'-C4'-C5'-O5'
67	RA	501	GTP	O4'-C4'-C5'-O5'
69	BJ	501	GDP	C3'-C4'-C5'-O5'
69	GF	501	GDP	C3'-C4'-C5'-O5'
69	JL	501	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
69	TF	501	GDP	O4'-C4'-C5'-O5'
67	AA	501	GTP	PA-O3A-PB-O1B
67	AA	501	GTP	PA-O3A-PB-O2B
67	BC	501	GTP	PA-O3A-PB-O1B
67	CJ	502	GTP	PB-O3A-PA-O2A
67	DK	501	GTP	PA-O3A-PB-O1B
67	EC	501	GTP	PA-O3A-PB-O1B
67	EE	501	GTP	PA-O3A-PB-O1B
67	EG	501	GTP	PA-O3A-PB-O1B
67	EI	501	GTP	PA-O3A-PB-O1B
67	FC	501	GTP	PA-O3A-PB-O2B
67	FI	501	GTP	PG-O3B-PB-O1B
67	FI	501	GTP	PG-O3B-PB-O2B
67	FM	501	GTP	PB-O3A-PA-O2A
67	GC	501	GTP	PA-O3A-PB-O2B
67	GJ	502	GTP	PA-O3A-PB-O1B
67	IN	502	GTP	PA-O3A-PB-O2B
67	KC	501	GTP	PA-O3A-PB-O1B
67	KC	501	GTP	PA-O3A-PB-O2B
67	KG	501	GTP	PG-O3B-PB-O2B
67	KK	501	GTP	PA-O3A-PB-O1B
67	KK	501	GTP	PA-O3A-PB-O2B
67	KO	501	GTP	PB-O3A-PA-O1A
67	KO	501	GTP	PB-O3A-PA-O2A
67	LG	501	GTP	PA-O3A-PB-O1B
67	LI	501	GTP	PA-O3A-PB-O1B
67	LK	501	GTP	PB-O3A-PA-O1A
67	LK	501	GTP	PB-O3A-PA-O2A
67	MI	501	GTP	PA-O3A-PB-O1B
67	MI	501	GTP	PA-O3A-PB-O2B
67	NB	502	GTP	PA-O3A-PB-O2B
67	NK	501	GTP	PG-O3B-PB-O2B
67	O0	502	GTP	PG-O3B-PB-O2B
67	OC	501	GTP	PA-O3A-PB-O2B
67	OE	501	GTP	PA-O3A-PB-O1B
67	OF	502	GTP	PA-O3A-PB-O1B
67	SA	501	GTP	PB-O3A-PA-O1A
67	SA	501	GTP	PB-O3A-PA-O2A
67	SM	501	GTP	PA-O3A-PB-O1B
67	WC	501	GTP	PB-O3A-PA-O2A
69	CH	501	GDP	PB-O3A-PA-O2A
69	KN	501	GDP	PB-O3A-PA-O1A

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Mol	Chain	Res	Type	Atoms
67	NA	502	GTP	O4'-C4'-C5'-O5'
69	KF	501	GDP	O4'-C4'-C5'-O5'
67	TK	501	GTP	C4'-C5'-O5'-PA
69	TJ	501	GDP	C4'-C5'-O5'-PA
69	BJ	501	GDP	PA-O3A-PB-O1B
69	KB	501	GDP	PA-O3A-PB-O1B
69	PH	501	GDP	PA-O3A-PB-O1B
67	AA	501	GTP	O4'-C4'-C5'-O5'
67	DK	501	GTP	C3'-C4'-C5'-O5'
67	SC	501	GTP	C3'-C4'-C5'-O5'
69	JJ	501	GDP	C3'-C4'-C5'-O5'
69	MJ	501	GDP	O4'-C4'-C5'-O5'
69	QB	501	GDP	O4'-C4'-C5'-O5'
69	UD	501	GDP	O4'-C4'-C5'-O5'
67	EE	501	GTP	C4'-C5'-O5'-PA
67	QA	501	GTP	C4'-C5'-O5'-PA
67	WI	501	GTP	C4'-C5'-O5'-PA
69	HF	501	GDP	C4'-C5'-O5'-PA
69	OB	501	GDP	C4'-C5'-O5'-PA
67	FG	501	GTP	C2'-C1'-N9-C4
67	AH	502	GTP	PG-O3B-PB-O2B
67	AM	501	GTP	PA-O3A-PB-O1B
67	CJ	502	GTP	PB-O3A-PA-O1A
67	DC	501	GTP	PA-O3A-PB-O1B
67	EE	501	GTP	PA-O3A-PB-O2B
67	FE	501	GTP	PG-O3B-PB-O2B
67	GE	501	GTP	PG-O3B-PB-O2B
67	GM	501	GTP	PG-O3B-PB-O2B
67	HL	502	GTP	PG-O3B-PB-O2B
67	IK	501	GTP	PA-O3A-PB-O1B
67	IN	502	GTP	PG-O3B-PB-O2B
67	KI	501	GTP	PA-O3A-PB-O1B
67	LE	501	GTP	PA-O3A-PB-O1B
67	MG	501	GTP	PG-O3B-PB-O2B
67	MK	501	GTP	PA-O3A-PB-O1B
67	NB	502	GTP	PA-O3A-PB-O1B
67	O0	502	GTP	PA-O3A-PB-O2B
67	OC	501	GTP	PA-O3A-PB-O1B
67	OF	502	GTP	PG-O3B-PB-O2B
67	OK	501	GTP	PG-O3B-PB-O2B
67	OK	501	GTP	PA-O3A-PB-O1B
67	RM	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
67	UI	501	GTP	PG-O3B-PB-O2B
67	VC	501	GTP	PG-O3B-PB-O2B
67	VI	502	GTP	PA-O3A-PB-O1B
67	WE	501	GTP	PA-O3A-PB-O2B
67	WG	501	GTP	PA-O3A-PB-O2B
69	PD	501	GDP	PB-O3A-PA-O2A
69	VL	501	GDP	PB-O3A-PA-O2A
67	HL	502	GTP	C3'-C4'-C5'-O5'
69	CB	501	GDP	C3'-C4'-C5'-O5'
67	OK	501	GTP	PA-O3A-PB-O3B

There are no ring outliers.

212 monomers are involved in 369 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
69	ML	501	GDP	1	0
67	DF	502	GTP	1	0
67	QI	501	GTP	2	0
67	WM	501	GTP	1	0
69	UB	501	GDP	1	0
67	GC	501	GTP	1	0
69	QL	501	GDP	2	0
67	IM	501	GTP	2	0
67	DI	501	GTP	1	0
67	O0	502	GTP	2	0
69	SB	501	GDP	1	0
67	WI	501	GTP	1	0
67	MG	501	GTP	3	0
67	GI	501	GTP	1	0
69	SF	501	GDP	1	0
69	QH	501	GDP	2	0
69	NF	501	GDP	2	0
69	DF	501	GDP	2	0
67	CB	502	GTP	1	0
69	VH	501	GDP	2	0
69	OH	501	GDP	2	0
67	RI	501	GTP	4	0
69	VN	501	GDP	4	0
69	CF	501	GDP	4	0
67	RG	501	GTP	1	0
69	OJ	501	GDP	1	0
69	FD	501	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
69	UH	501	GDP	4	0
67	EG	501	GTP	1	0
69	FN	501	GDP	3	0
67	BA	501	GTP	1	0
67	MC	501	GTP	3	0
67	HE	501	GTP	2	0
67	VI	502	GTP	3	0
69	BJ	501	GDP	1	0
69	DN	501	GDP	1	0
69	ED	501	GDP	2	0
67	EI	501	GTP	1	0
69	CH	501	GDP	2	0
69	PF	501	GDP	2	0
67	UM	501	GTP	1	0
67	LE	501	GTP	2	0
69	WH	501	GDP	1	0
67	QK	501	GTP	3	0
69	UL	501	GDP	2	0
67	BC	501	GTP	3	0
67	AA	501	GTP	1	0
67	QE	501	GTP	2	0
67	TK	501	GTP	2	0
67	UC	501	GTP	3	0
67	SC	501	GTP	1	0
69	CJ	501	GDP	1	0
69	DB	501	GDP	3	0
69	DH	501	GDP	3	0
69	OD	501	GDP	2	0
69	RD	501	GDP	1	0
69	IN	501	GDP	1	0
69	WN	501	GDP	1	0
67	BI	501	GTP	1	0
67	CH	502	GTP	1	0
67	PD	502	GTP	4	0
67	RM	501	GTP	2	0
67	WC	501	GTP	1	0
69	LL	501	GDP	1	0
69	HF	501	GDP	1	0
69	IB	501	GDP	1	0
69	IL	501	GDP	2	0
67	TG	501	GTP	3	0
69	DJ	501	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
67	CG	501	GTP	1	0
67	AC	501	GTP	1	0
69	QJ	501	GDP	1	0
69	CD	501	GDP	3	0
69	IJ	501	GDP	1	0
67	SK	501	GTP	2	0
67	MK	501	GTP	1	0
69	TF	501	GDP	2	0
69	AL	501	GDP	1	0
69	JL	501	GDP	1	0
69	RJ	501	GDP	2	0
67	IE	501	GTP	1	0
69	GB	501	GDP	1	0
69	QD	501	GDP	3	0
67	MI	501	GTP	1	0
67	HK	501	GTP	2	0
67	WG	501	GTP	2	0
67	DC	501	GTP	2	0
67	PI	501	GTP	3	0
69	VL	501	GDP	3	0
67	SF	502	GTP	2	0
69	BH	501	GDP	1	0
69	FF	501	GDP	1	0
69	GF	501	GDP	1	0
69	EH	501	GDP	1	0
67	NF	502	GTP	1	0
67	EC	501	GTP	2	0
69	TH	501	GDP	1	0
67	NE	501	GTP	1	0
67	KC	501	GTP	2	0
67	DK	501	GTP	3	0
67	HI	501	GTP	4	0
69	BF	501	GDP	2	0
67	OE	501	GTP	5	0
67	AK	501	GTP	1	0
69	VJ	501	GDP	2	0
67	BK	501	GTP	2	0
67	TC	501	GTP	2	0
67	NK	501	GTP	1	0
69	FH	501	GDP	1	0
69	PB	501	GDP	3	0
69	OF	501	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
67	UK	501	GTP	1	0
69	TJ	501	GDP	3	0
67	LK	501	GTP	1	0
67	UG	501	GTP	2	0
69	NJ	501	GDP	2	0
67	DA	501	GTP	1	0
67	FC	501	GTP	2	0
69	NB	501	GDP	1	0
69	BB	501	GDP	1	0
69	MJ	501	GDP	1	0
67	JG	501	GTP	1	0
67	SM	501	GTP	1	0
67	OK	501	GTP	1	0
67	OC	501	GTP	1	0
67	HC	501	GTP	2	0
67	PK	501	GTP	5	0
67	KO	501	GTP	1	0
69	OB	501	GDP	1	0
69	PL	501	GDP	1	0
67	CJ	502	GTP	1	0
67	EK	501	GTP	2	0
69	MB	501	GDP	1	0
69	DL	501	GDP	1	0
67	AG	501	GTP	2	0
67	CA	501	GTP	2	0
67	IN	502	GTP	1	0
67	TI	501	GTP	4	0
67	VL	502	GTP	6	0
69	BD	501	GDP	2	0
67	NB	502	GTP	1	0
67	QM	501	GTP	2	0
67	PM	501	GTP	1	0
67	SE	501	GTP	3	0
67	TM	501	GTP	1	0
67	WE	501	GTP	3	0
69	AB	501	GDP	1	0
69	UJ	501	GDP	1	0
69	WD	501	GDP	1	0
67	DM	501	GTP	2	0
67	NI	501	GTP	1	0
67	ME	501	GTP	1	0
69	EN	501	GDP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
67	VK	501	GTP	1	0
69	KB	501	GDP	1	0
69	ID	501	GDP	1	0
69	O0	501	GDP	1	0
69	JN	501	GDP	1	0
67	TE	501	GTP	1	0
67	JK	501	GTP	2	0
67	BG	501	GTP	1	0
69	HJ	501	GDP	5	0
67	CD	502	GTP	1	0
69	VD	501	GDP	4	0
69	WF	501	GDP	1	0
69	PD	501	GDP	4	0
69	JH	501	GDP	2	0
67	CL	502	GTP	1	0
67	IC	501	GTP	3	0
67	DE	501	GTP	1	0
67	SI	501	GTP	2	0
69	IF	501	GDP	1	0
69	OL	501	GDP	1	0
67	JI	501	GTP	3	0
67	FG	501	GTP	2	0
69	NL	501	GDP	1	0
69	QF	501	GDP	3	0
67	GM	501	GTP	1	0
69	JJ	501	GDP	1	0
67	PA	501	GTP	1	0
67	PC	501	GTP	1	0
67	EM	501	GTP	2	0
67	VE	501	GTP	3	0
67	II	501	GTP	1	0
67	IK	501	GTP	1	0
69	CL	501	GDP	3	0
67	RK	501	GTP	1	0
67	OH	502	GTP	2	0
69	CB	501	GDP	1	0
67	OF	502	GTP	1	0
69	QB	501	GDP	1	0
67	HG	502	GTP	1	0
69	GL	501	GDP	2	0
69	RL	501	GDP	1	0
67	VG	501	GTP	1	0

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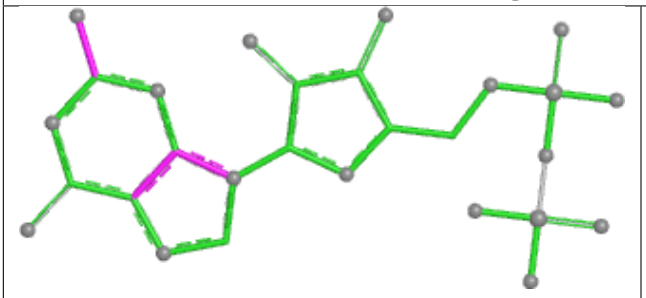
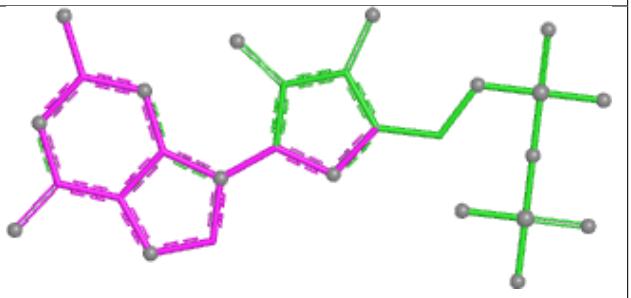
Mol	Chain	Res	Type	Clashes	Symm-Clashes
67	GJ	502	GTP	1	0
67	MM	501	GTP	1	0
67	IG	501	GTP	2	0
67	QG	501	GTP	1	0
69	N0	501	GDP	1	0
67	JM	501	GTP	1	0
67	UE	501	GTP	4	0
67	QC	501	GTP	1	0
69	KD	501	GDP	1	0
67	NA	502	GTP	2	0
69	HB	501	GDP	2	0
69	PH	501	GDP	5	0
67	VC	501	GTP	3	0
69	BL	501	GDP	1	0
69	MN	501	GDP	1	0
69	JF	501	GDP	3	0
69	PJ	501	GDP	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.

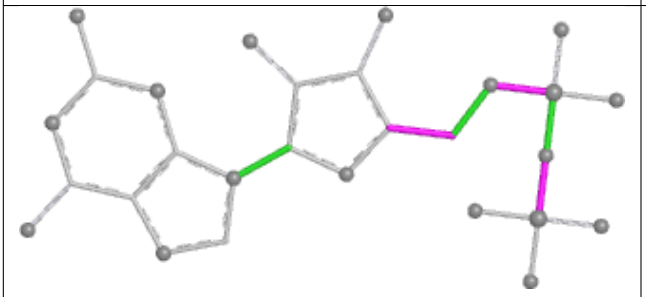
Ligand GDP ML 501



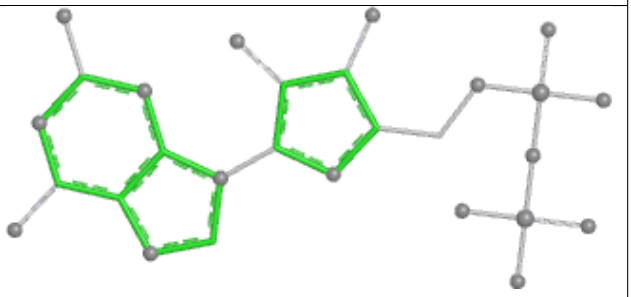
Bond lengths



Bond angles

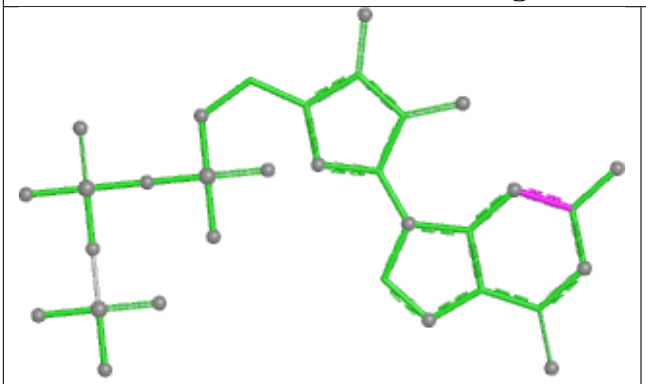


Torsions

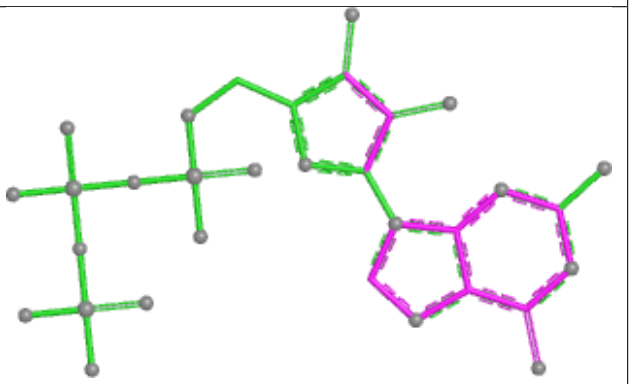


Rings

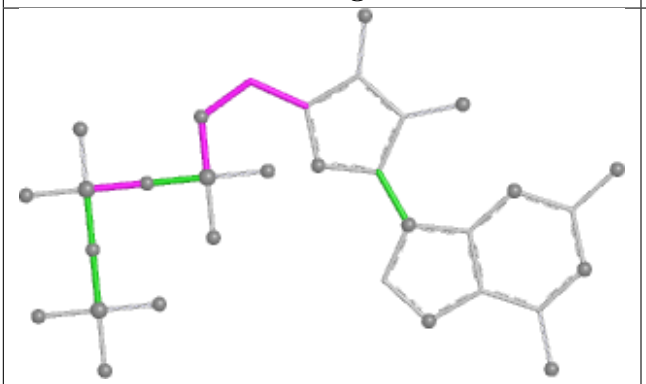
Ligand GTP DF 502



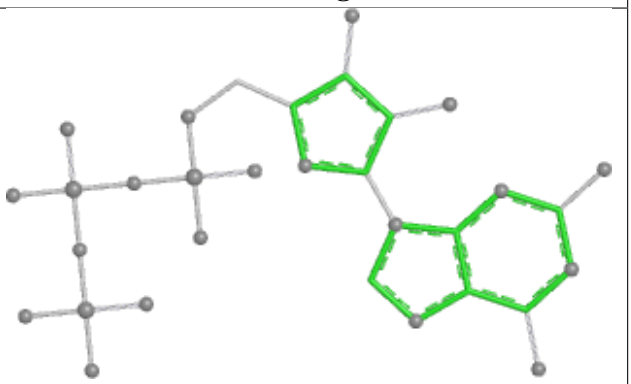
Bond lengths



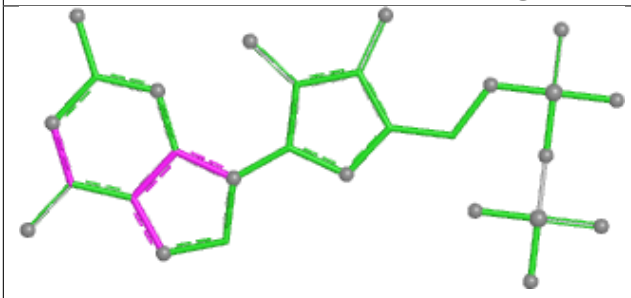
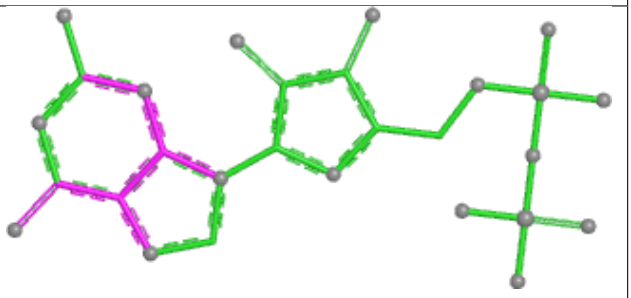
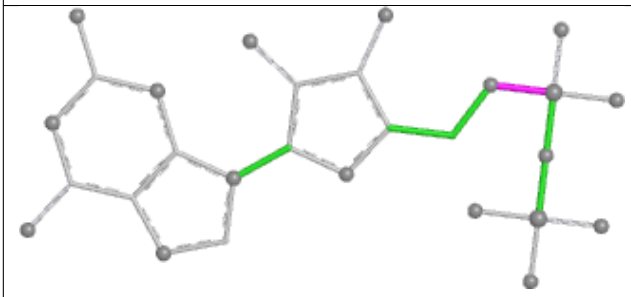
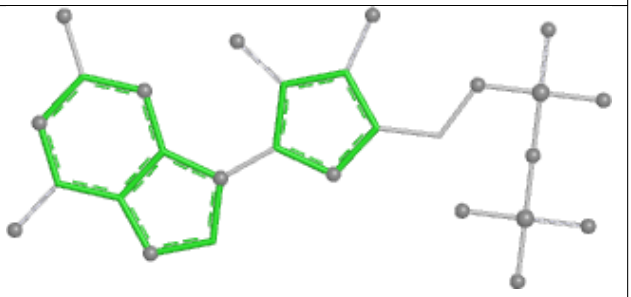
Bond angles

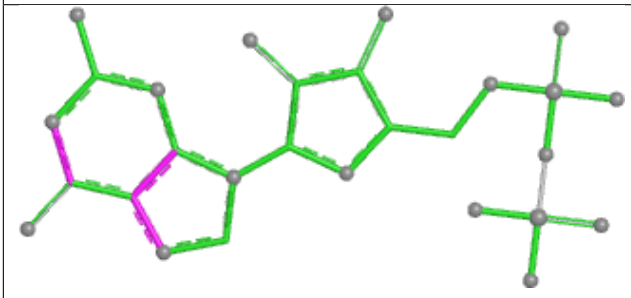
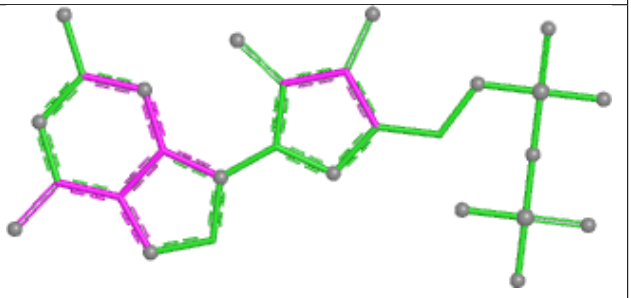
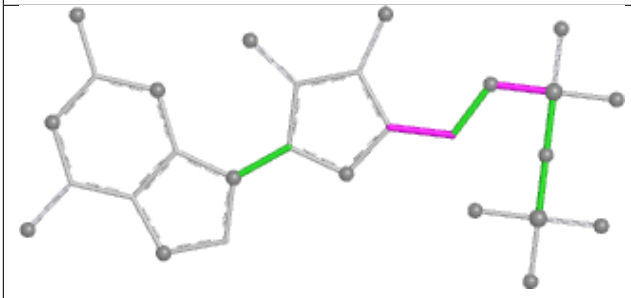
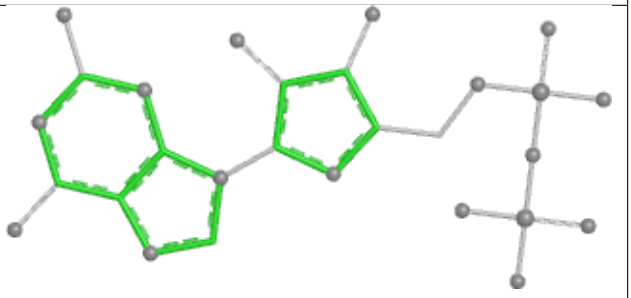


Torsions

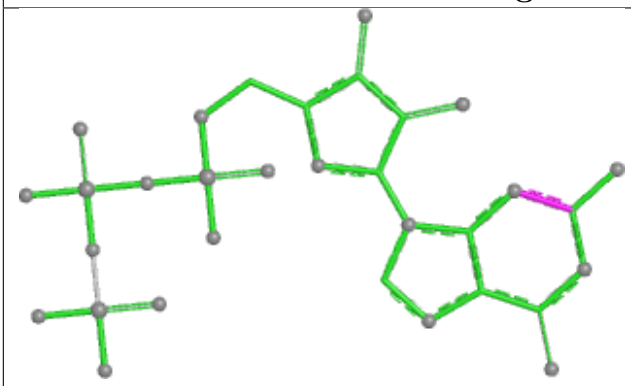


Rings

Ligand GDP LJ 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP GJ 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP QI 501



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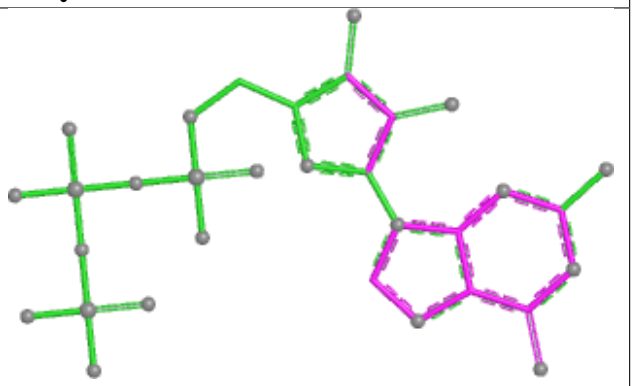

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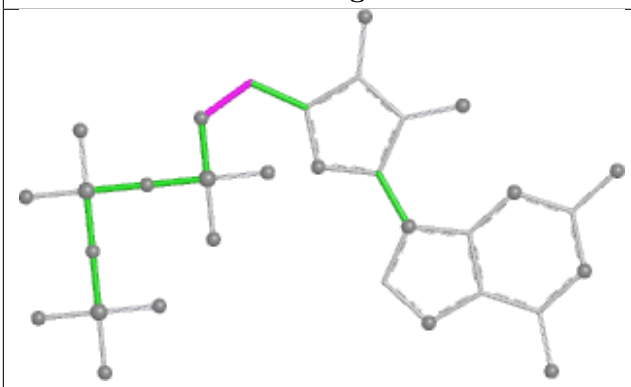

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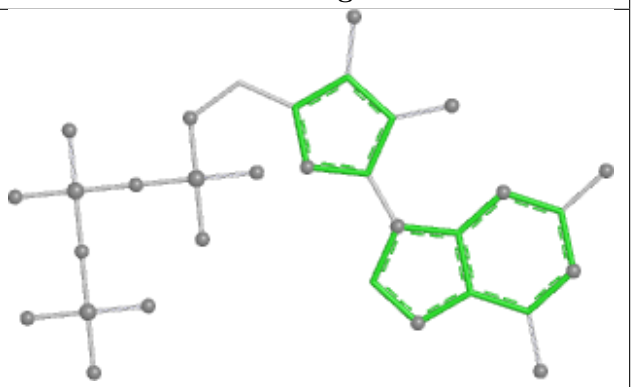

Rings

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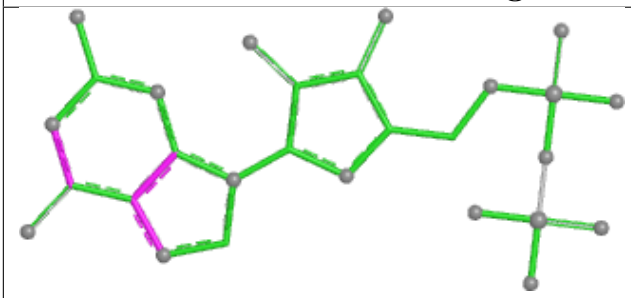

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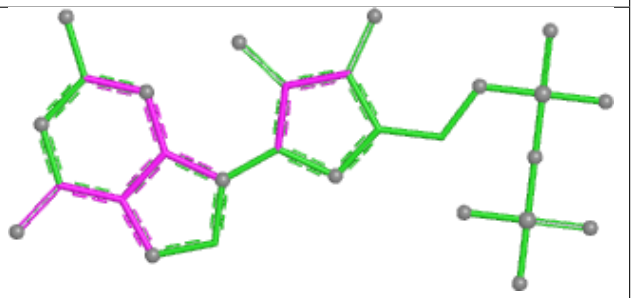

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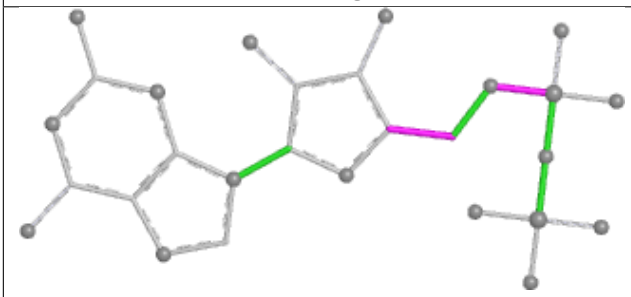

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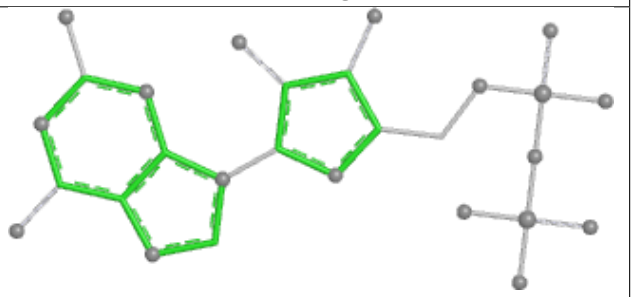

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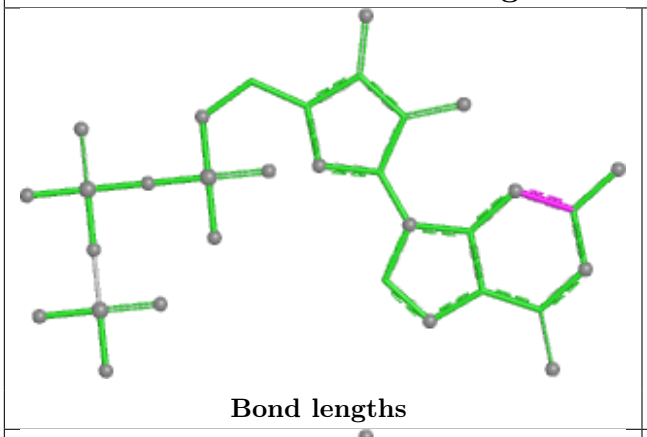

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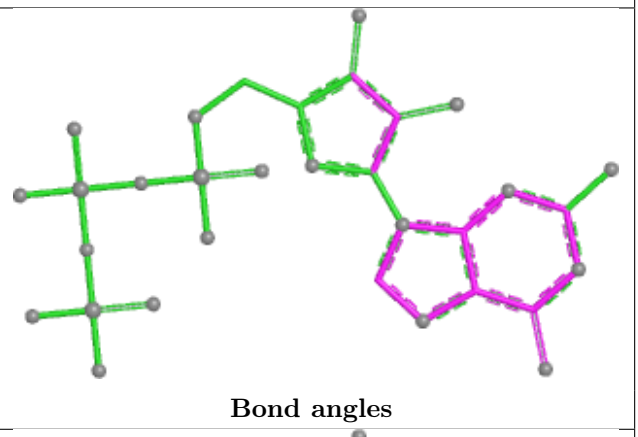

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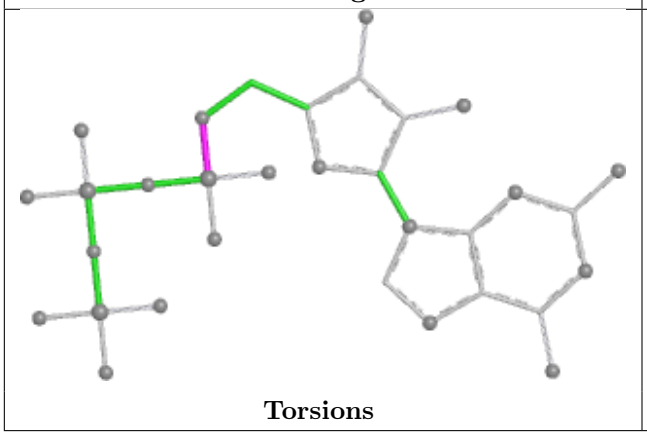

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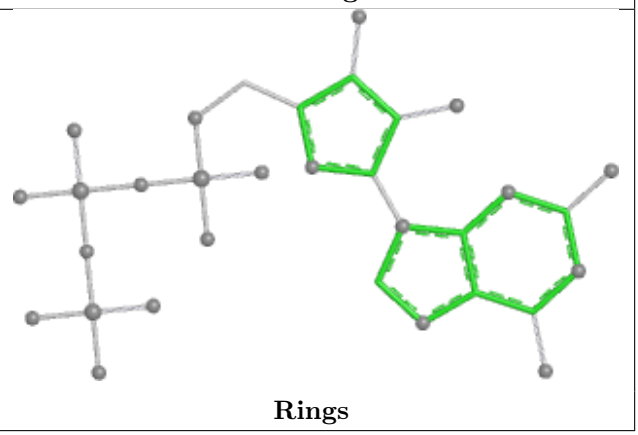

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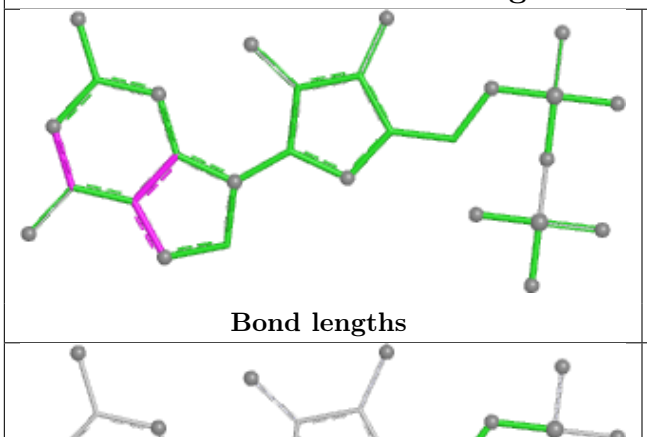

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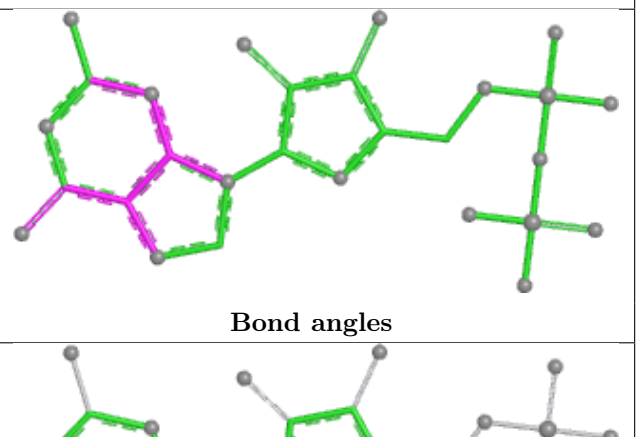

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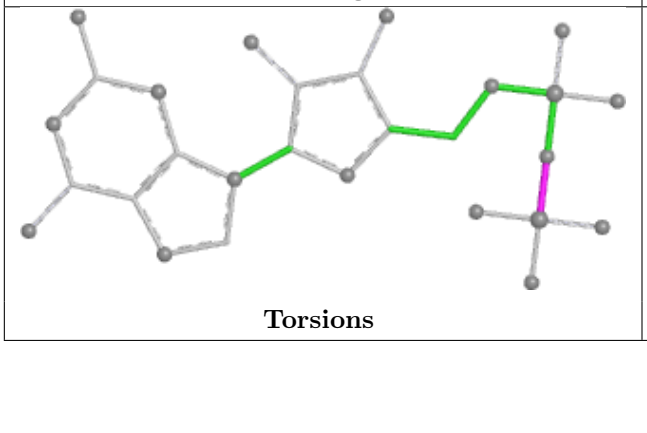

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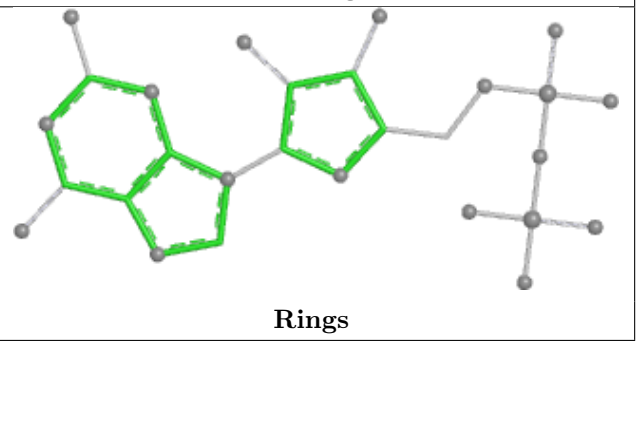

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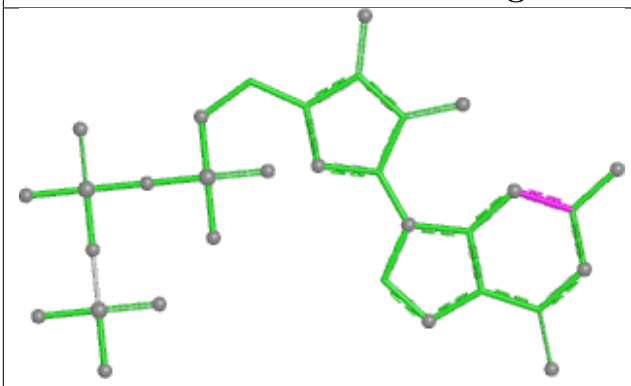

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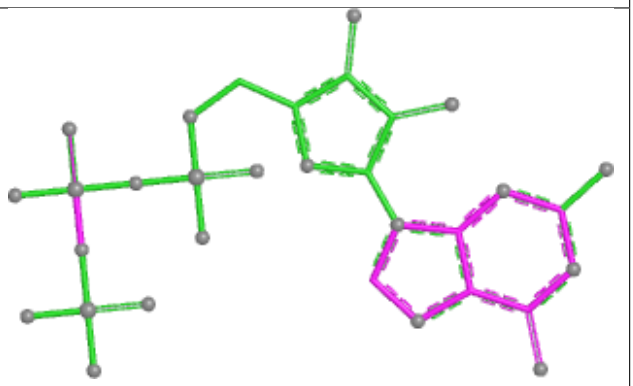

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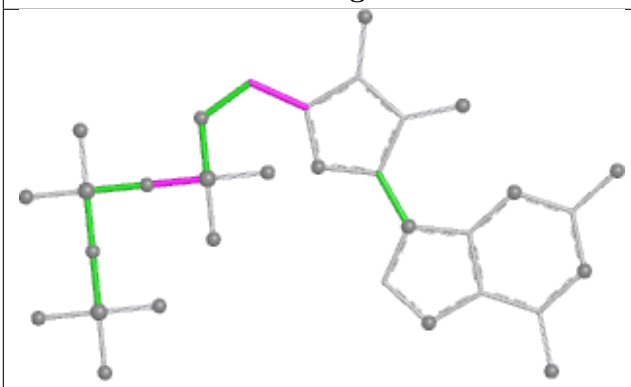

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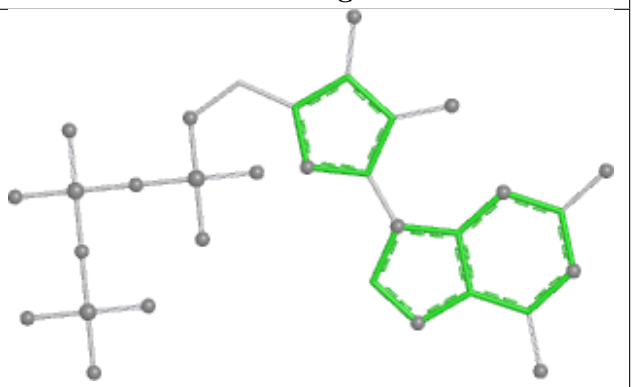

Rings

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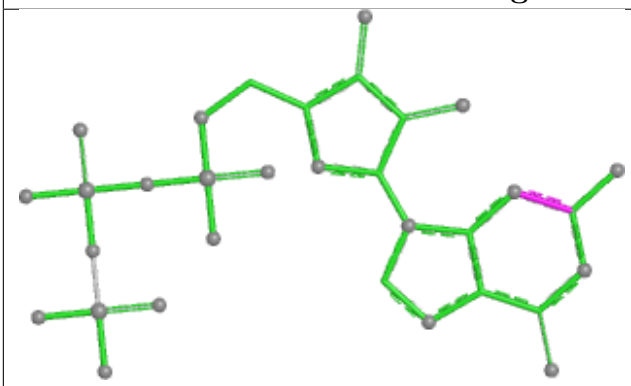

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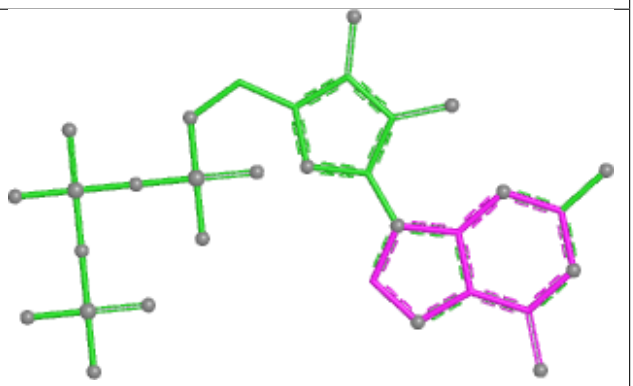

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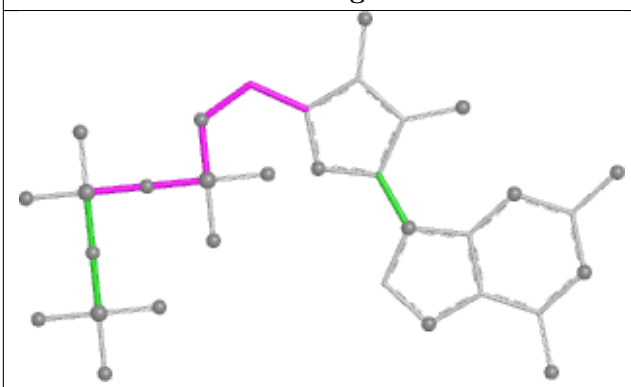

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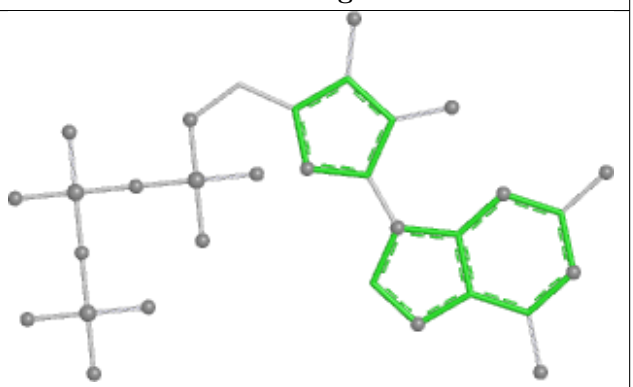

Rings

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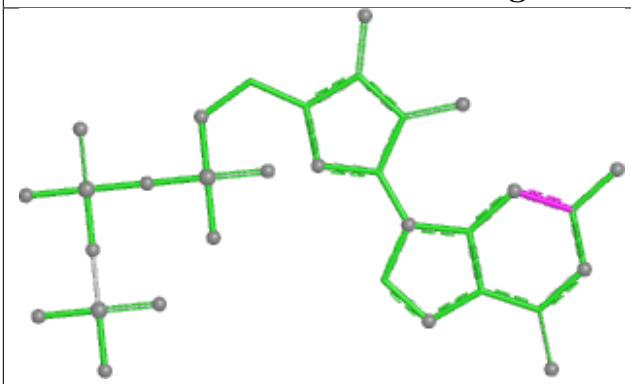

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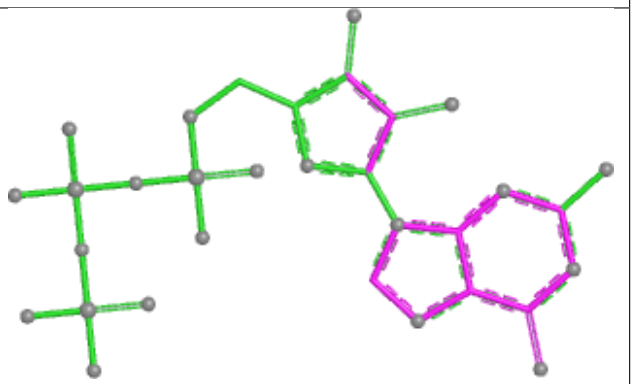

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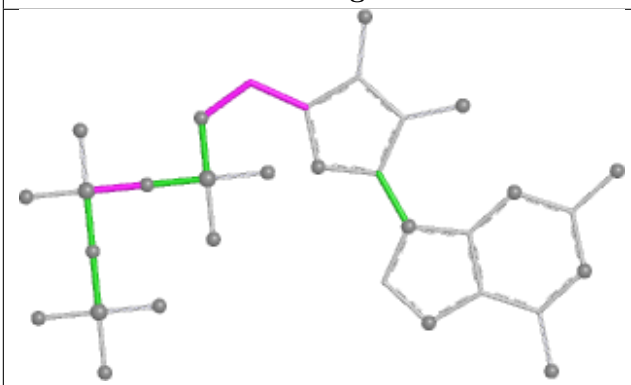

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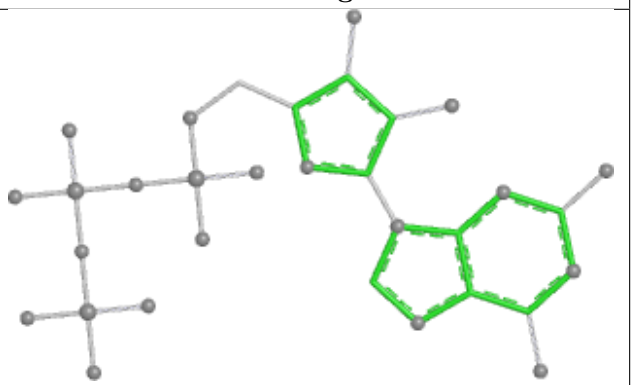

Rings

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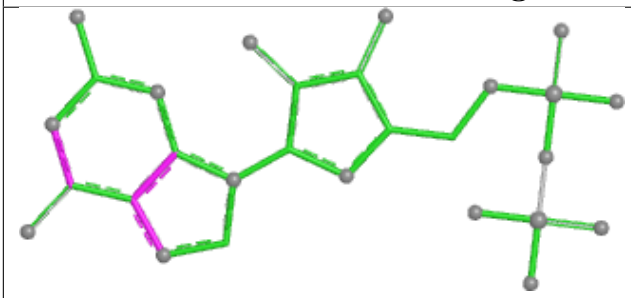

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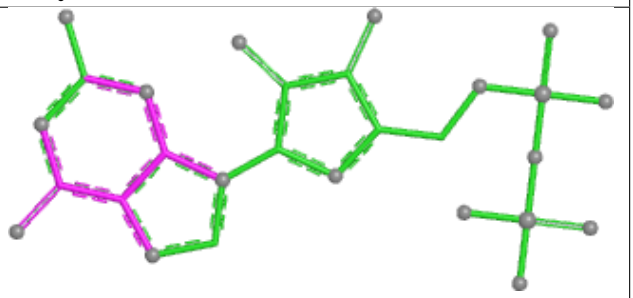

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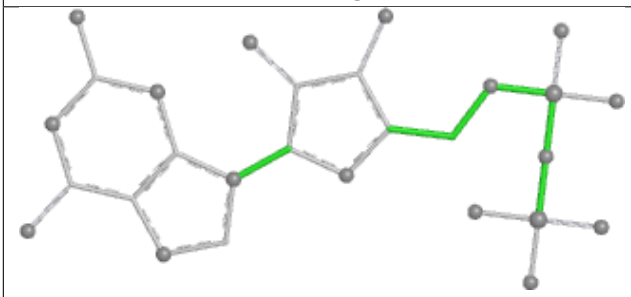

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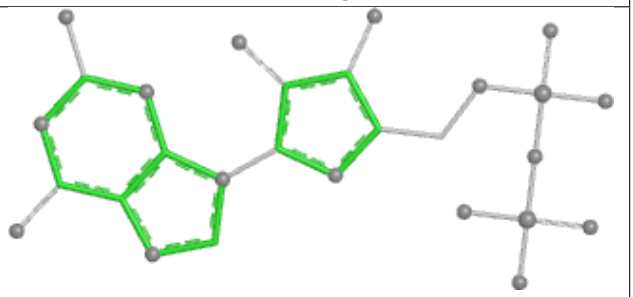

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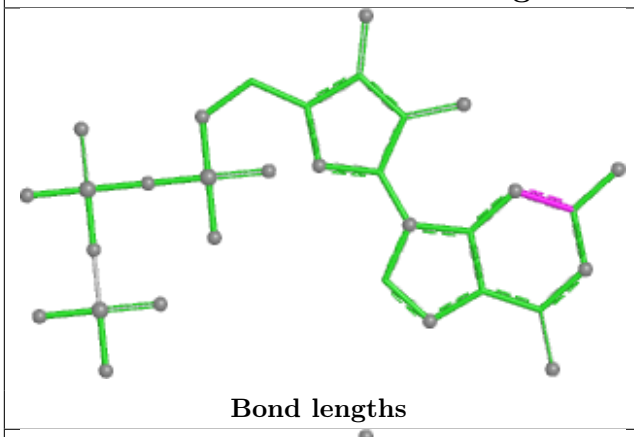

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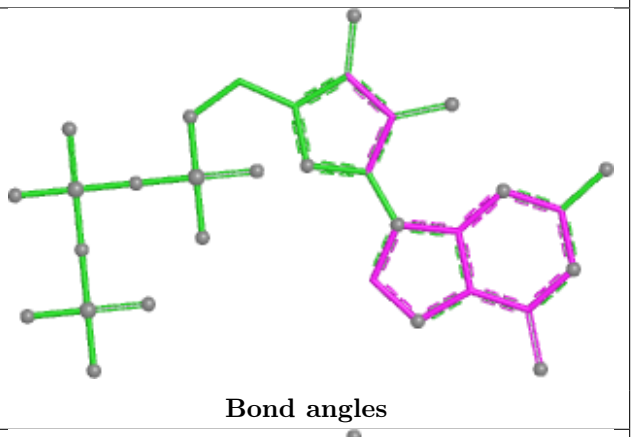

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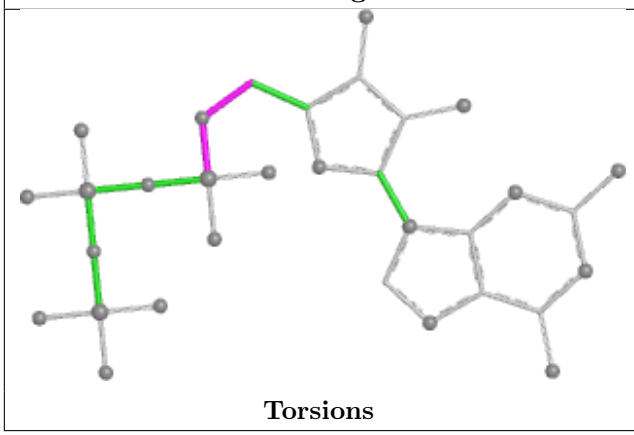

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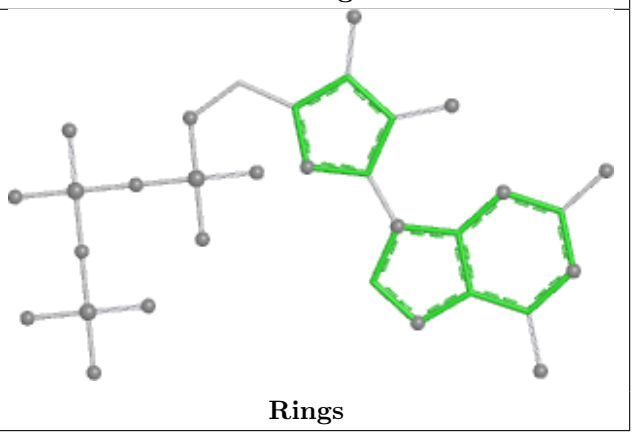

Rings

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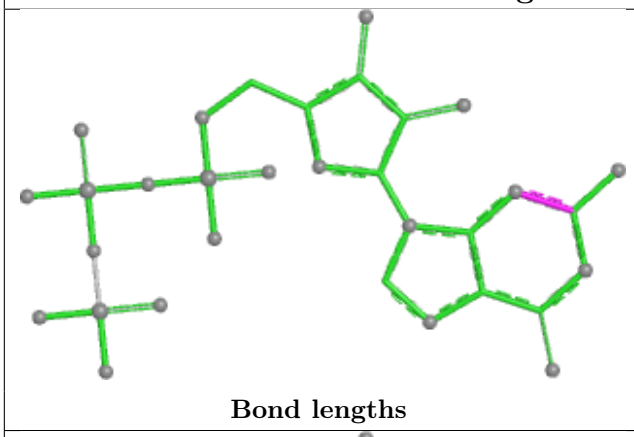

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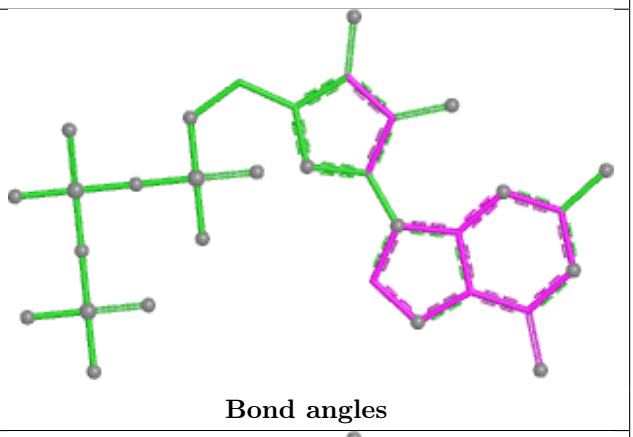

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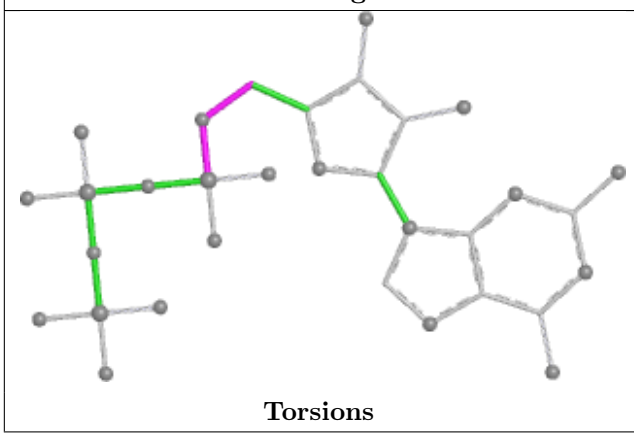

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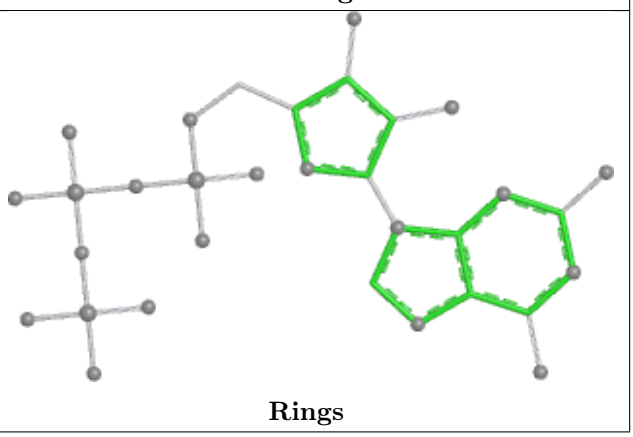

Rings

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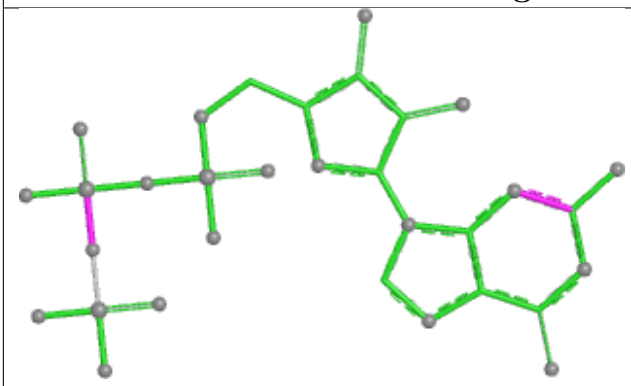

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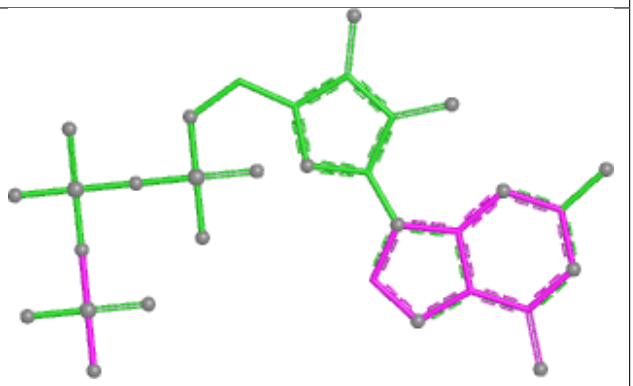

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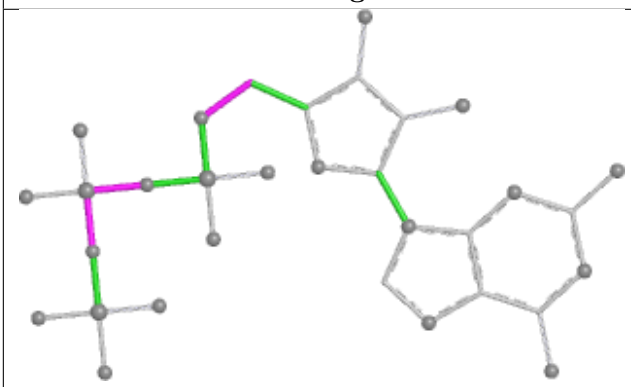

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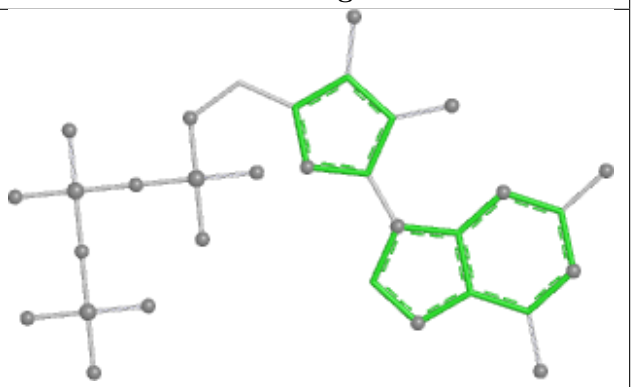

Rings

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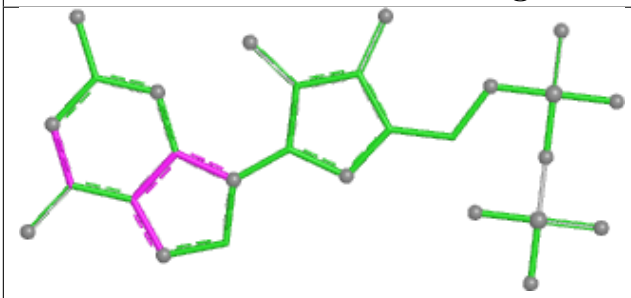

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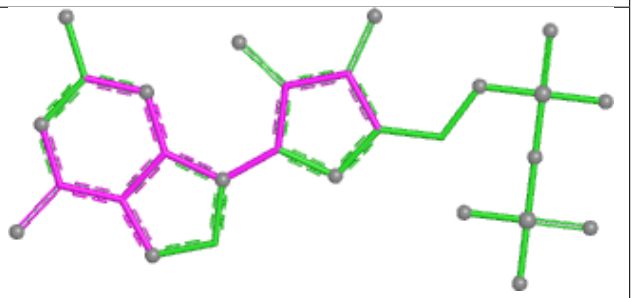

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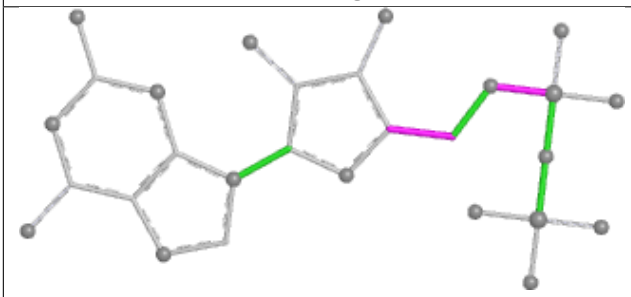

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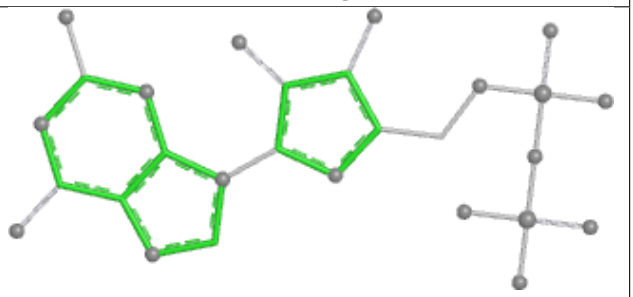

Rings

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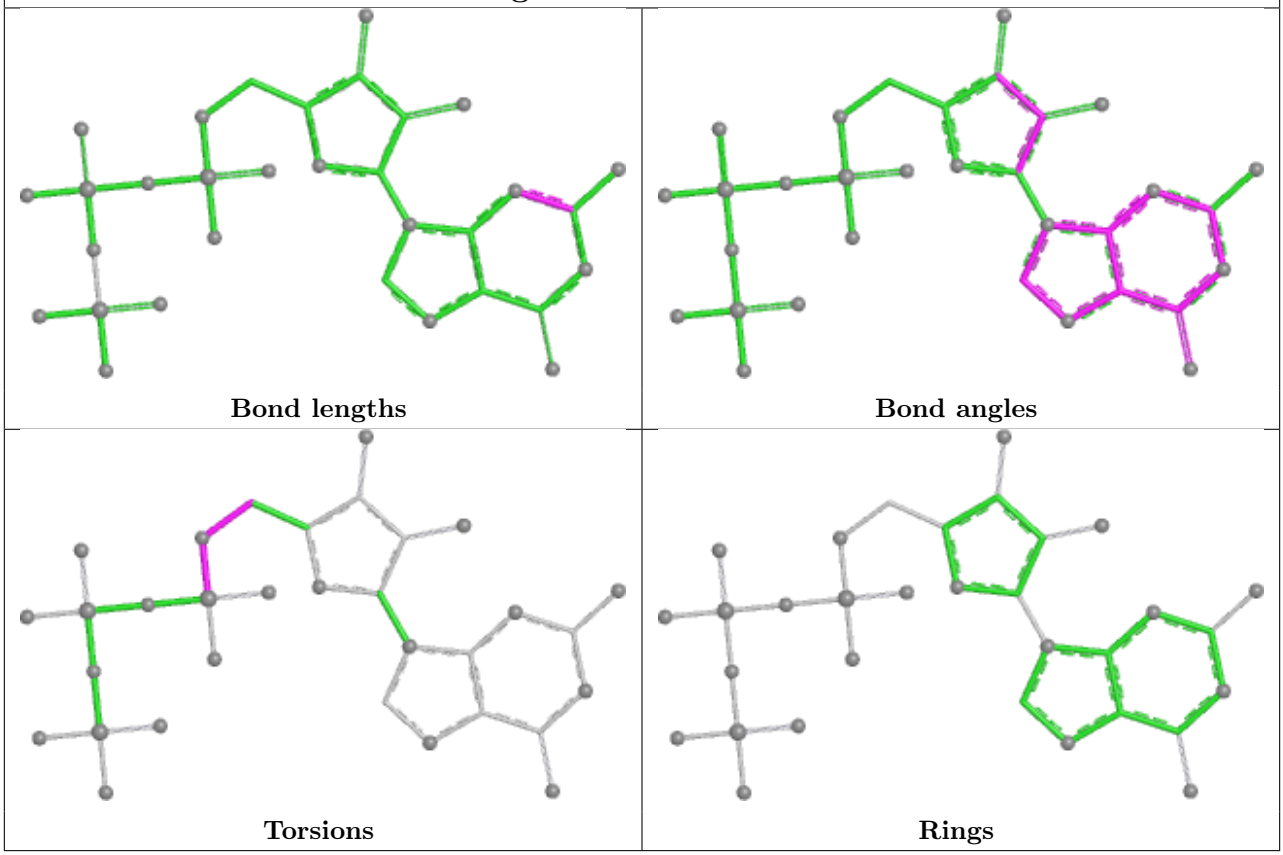

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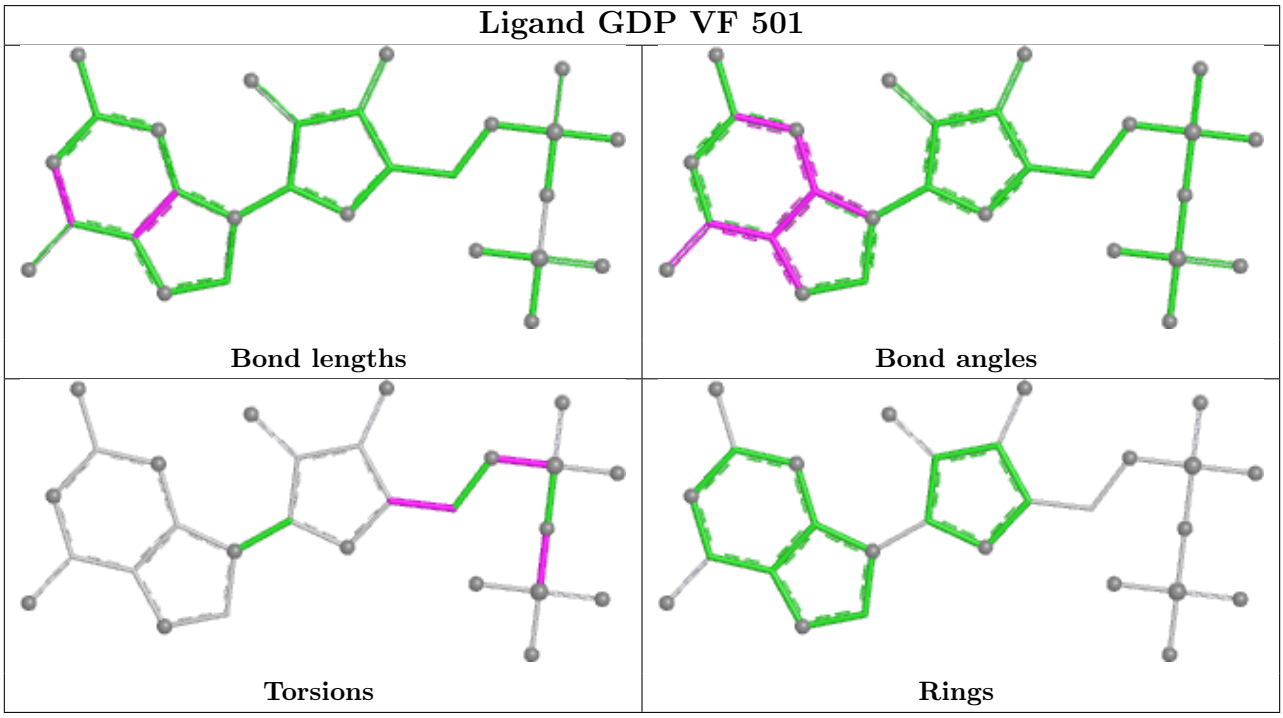

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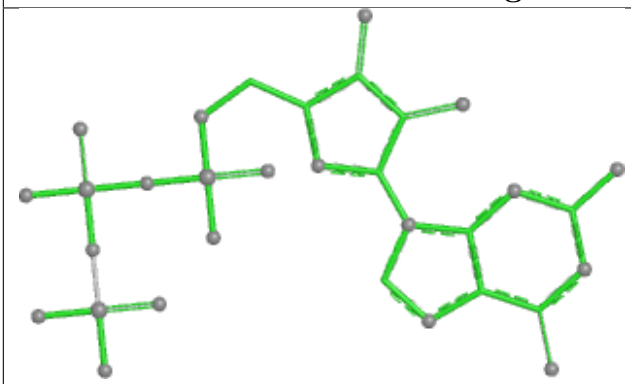

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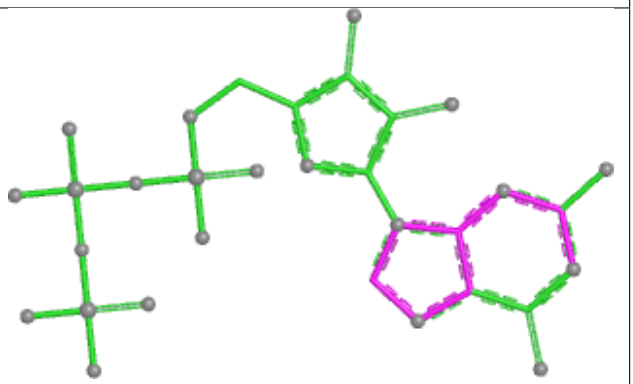

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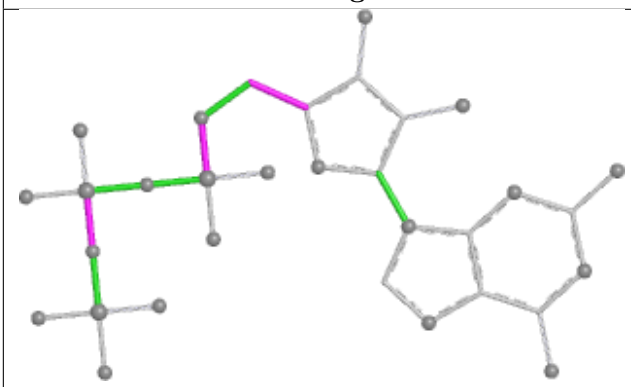

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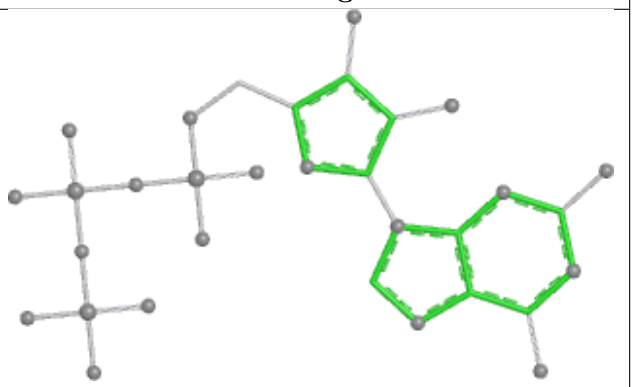
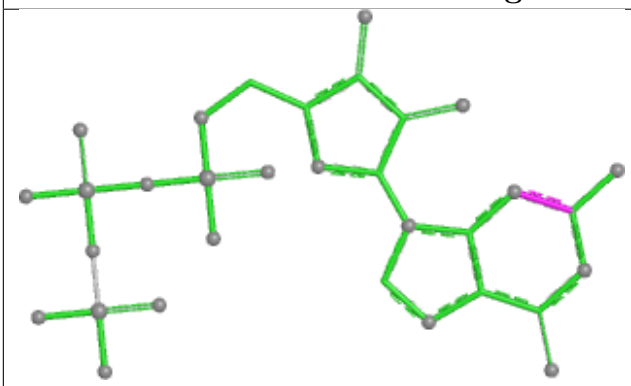


Rings

Ligand GTP KM 501



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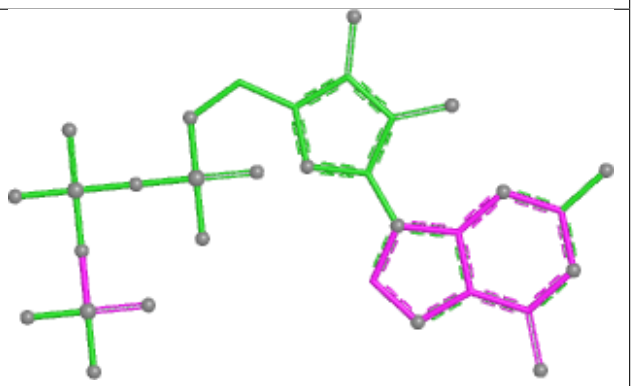

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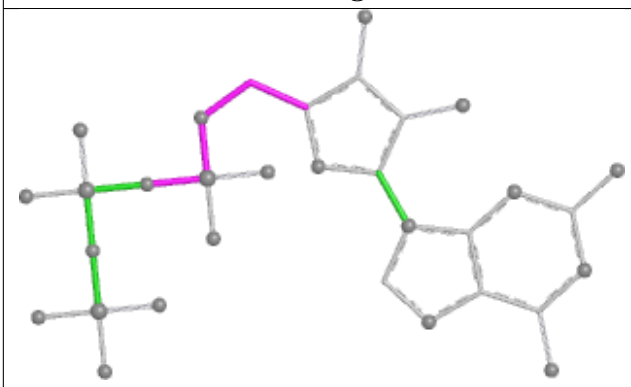

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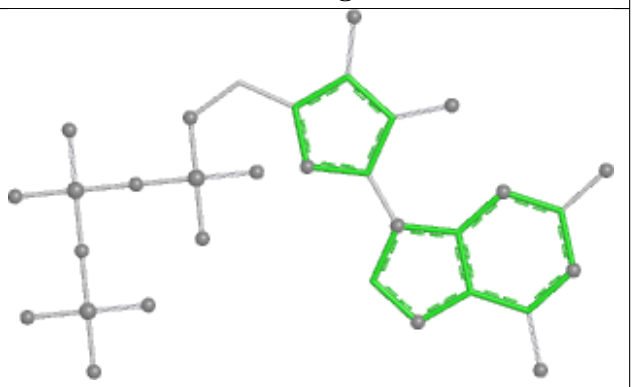
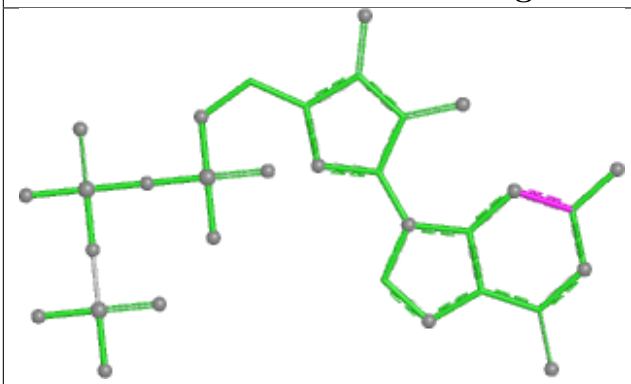


Rings

Ligand GTP GI 501



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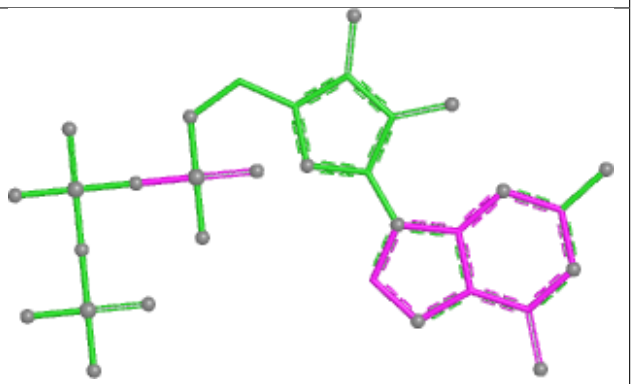

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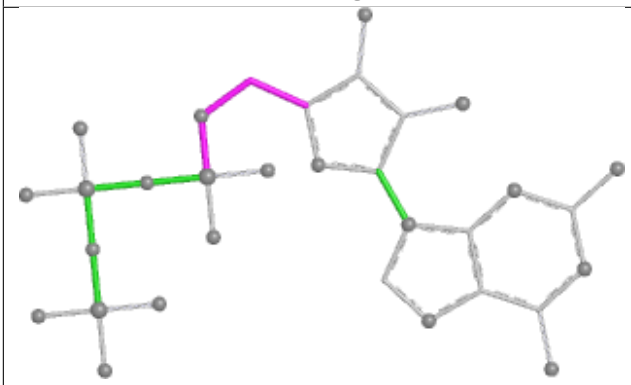

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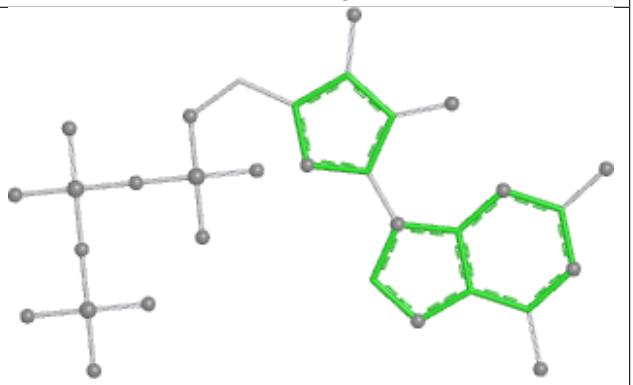
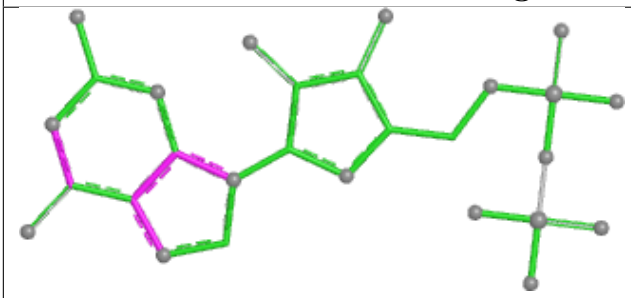


Rings

Ligand GDP SF 501



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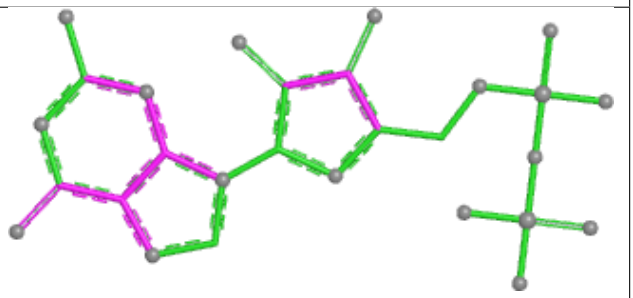

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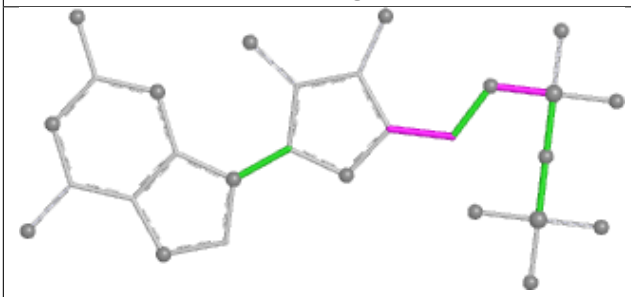

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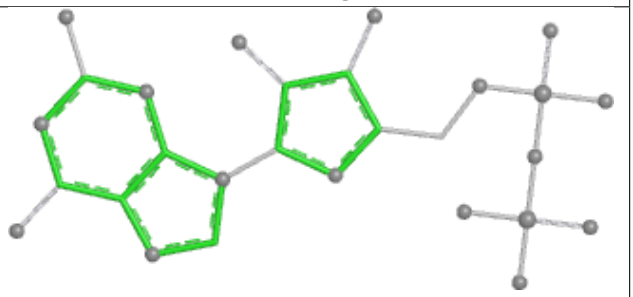
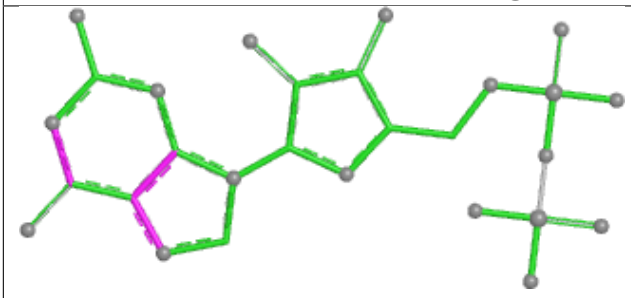
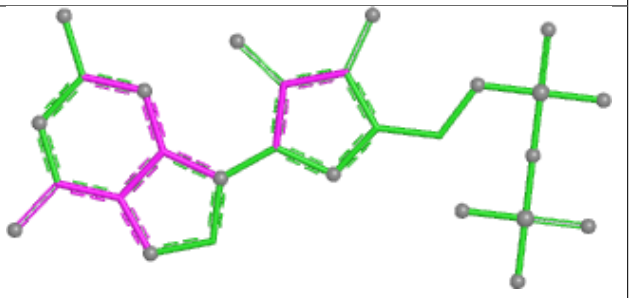
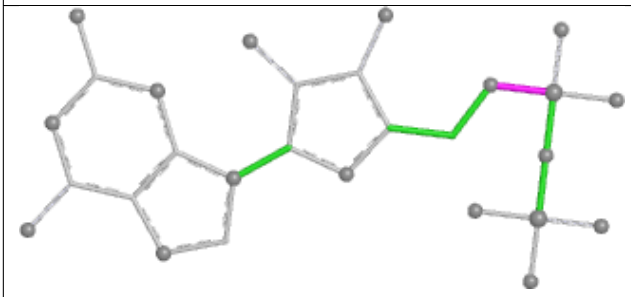
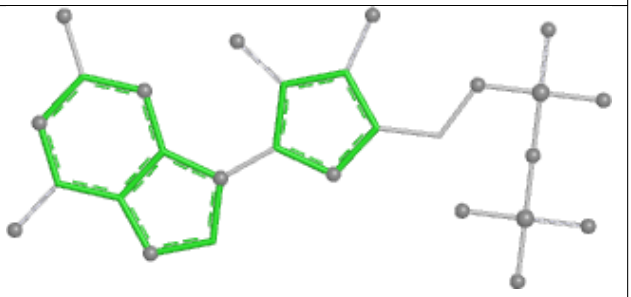
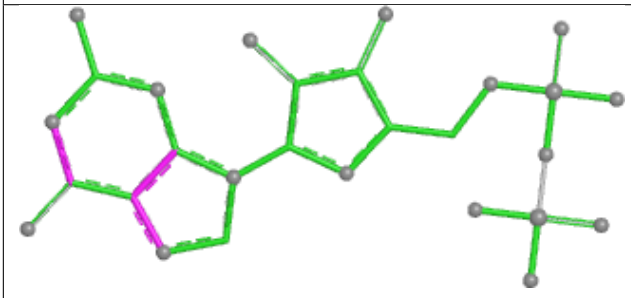
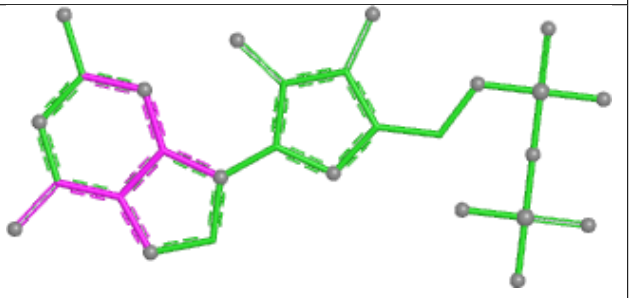
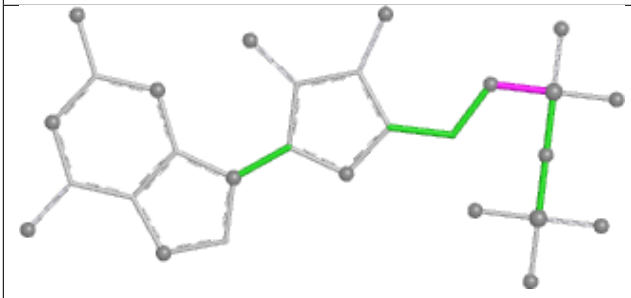
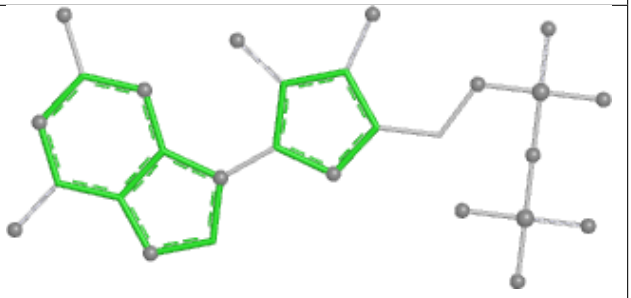


Rings

Ligand GDP UN 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP QH 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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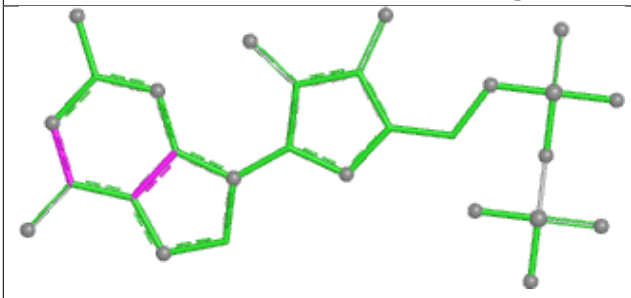

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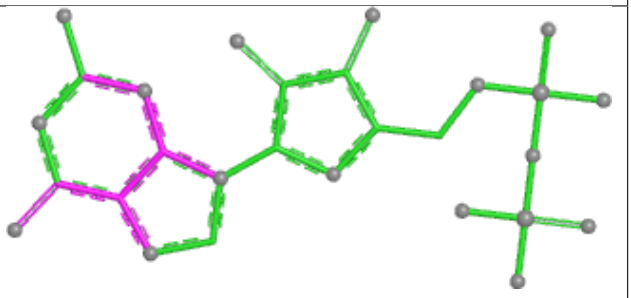

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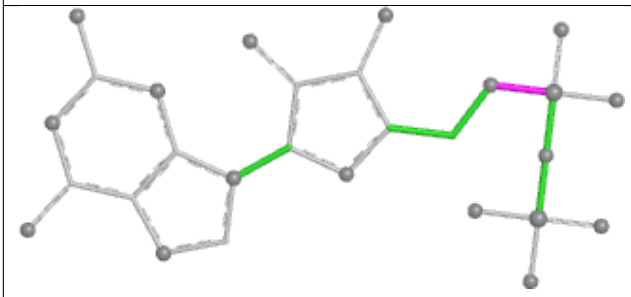

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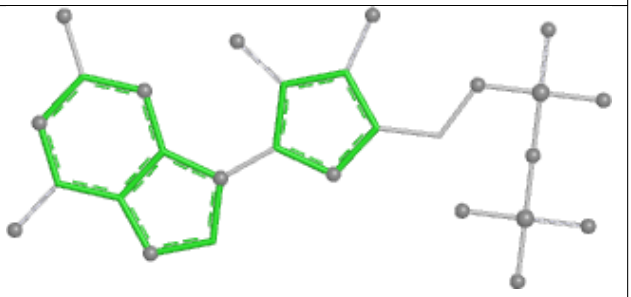
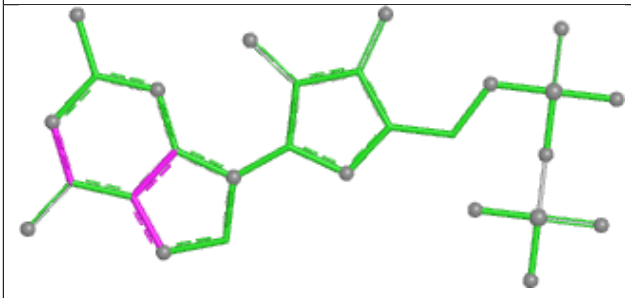


Rings

Ligand GDP DF 501



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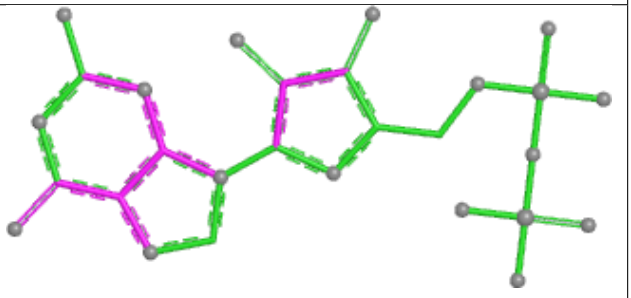

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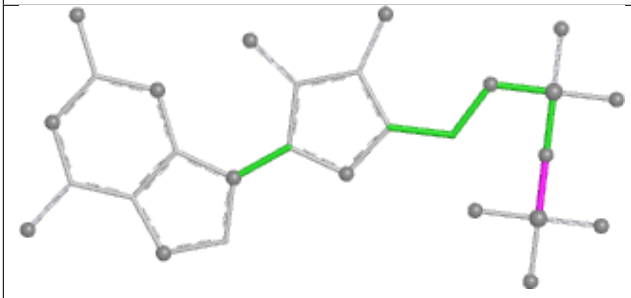

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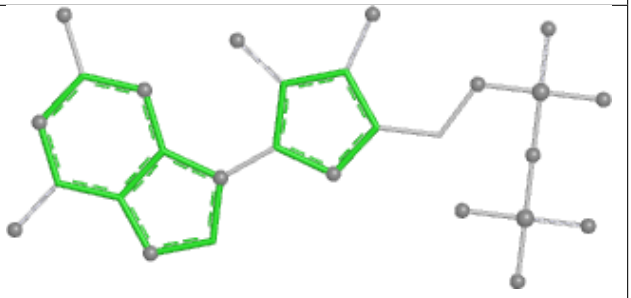
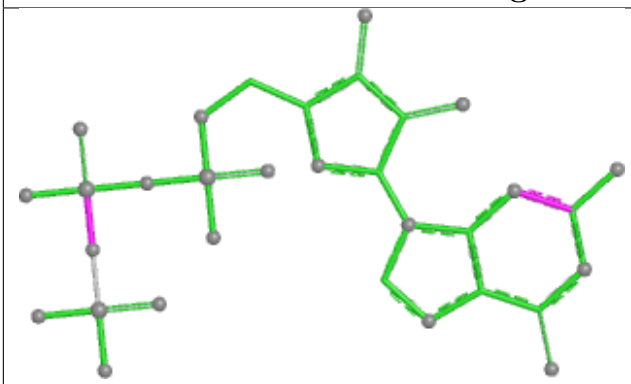


Rings

Ligand GTP CB 502



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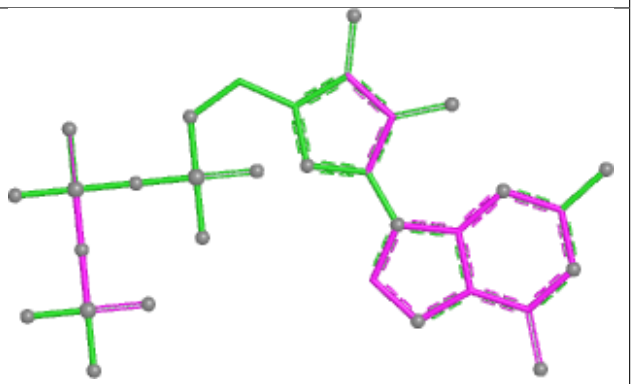

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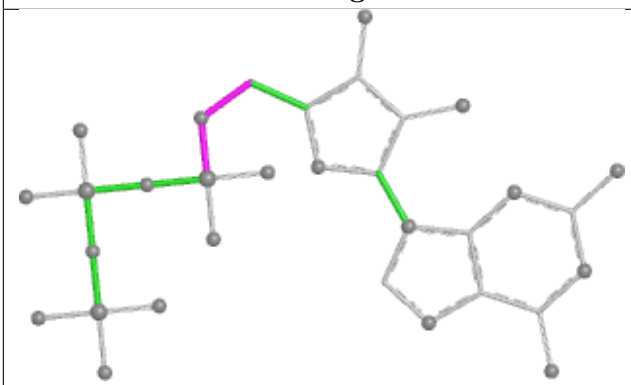

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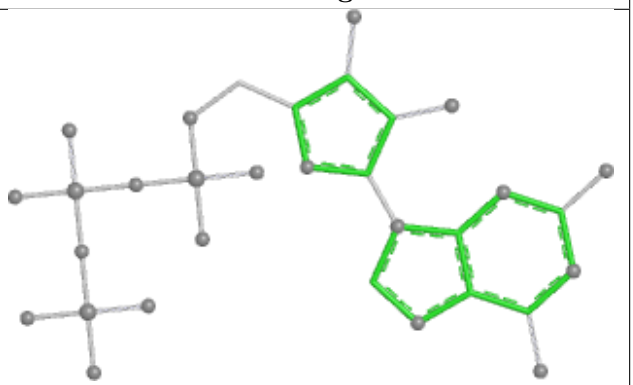
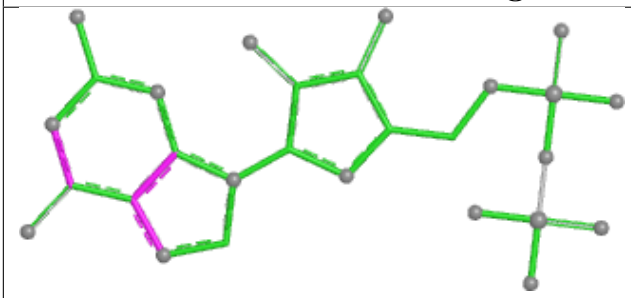


Rings

Ligand GDP VH 501



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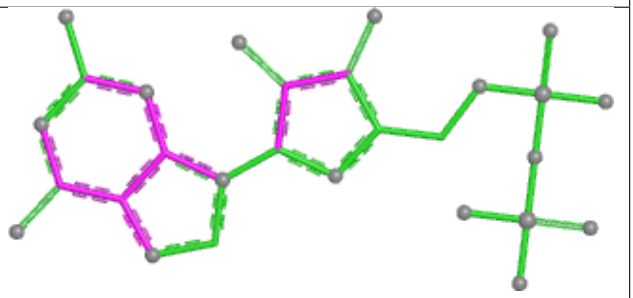

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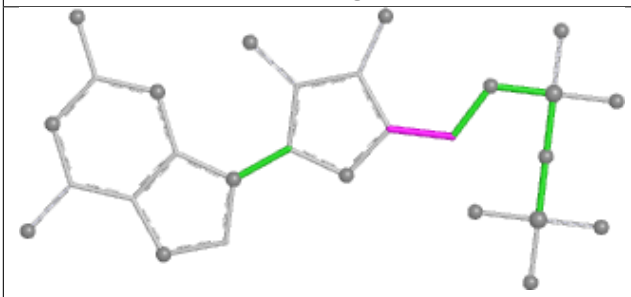

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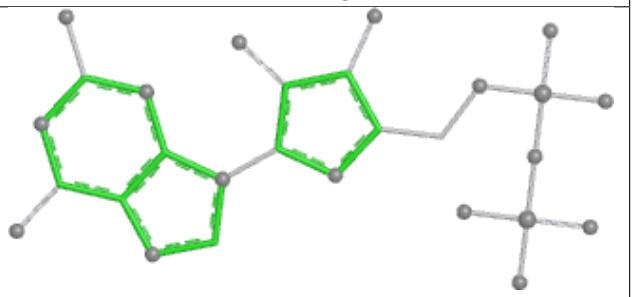
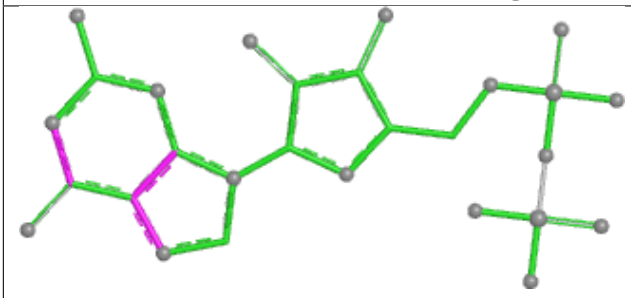
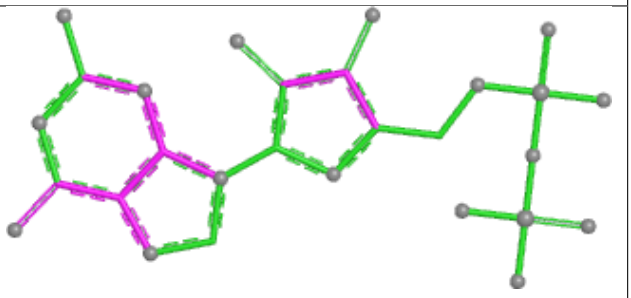
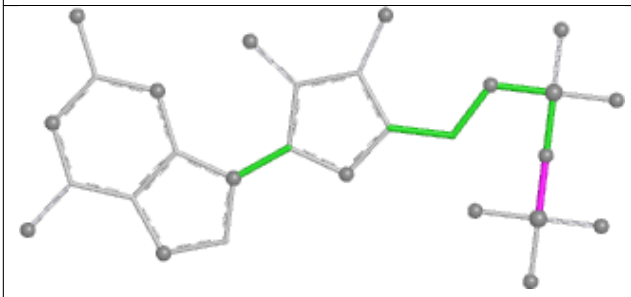
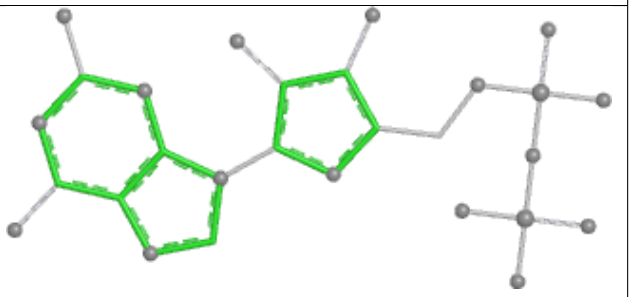
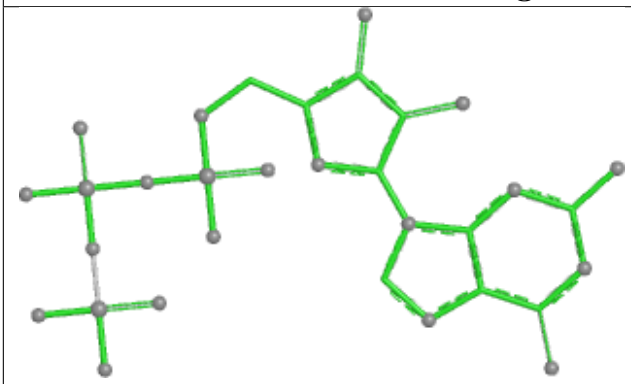
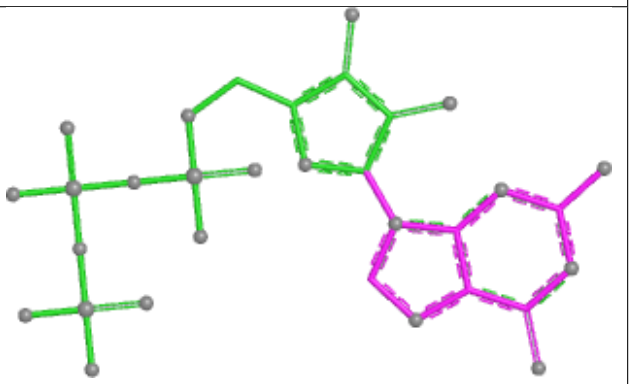
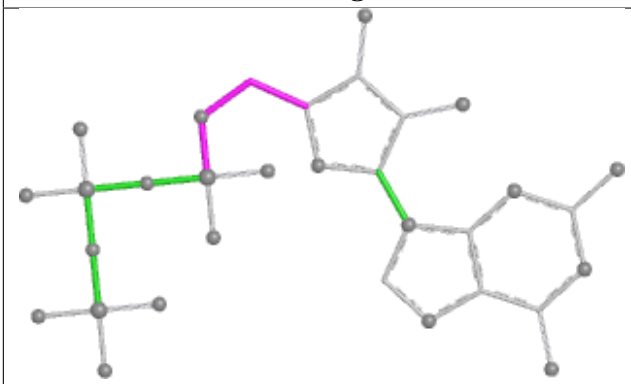
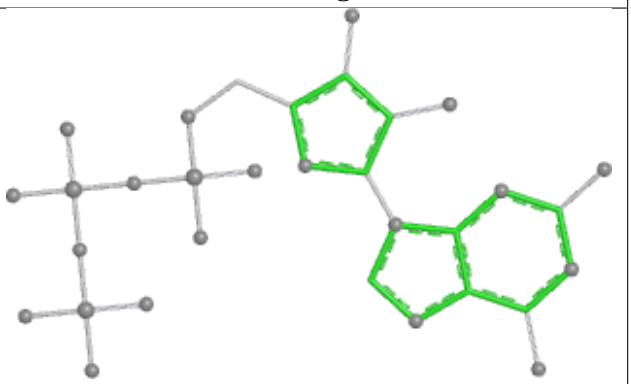
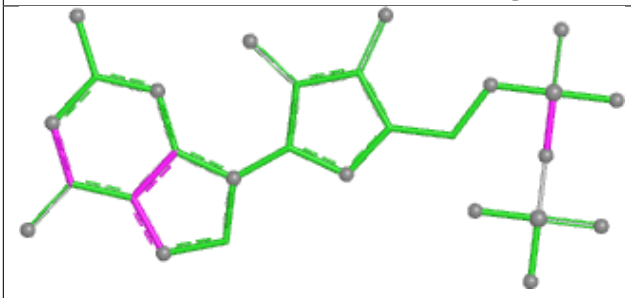


Rings

Ligand GDP OH 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP RI 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP VN 501



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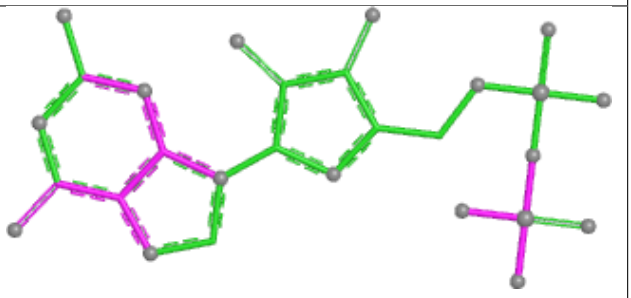

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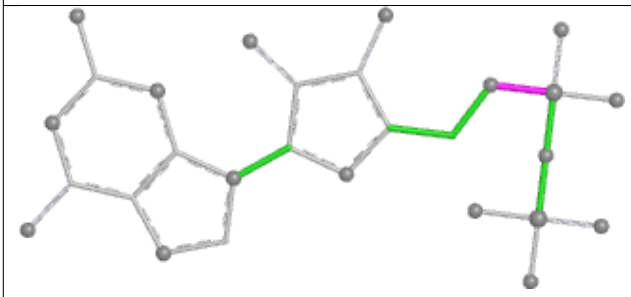

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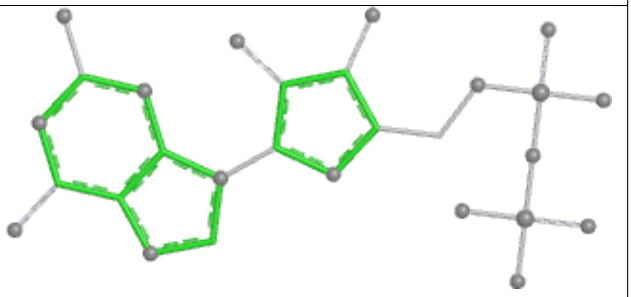
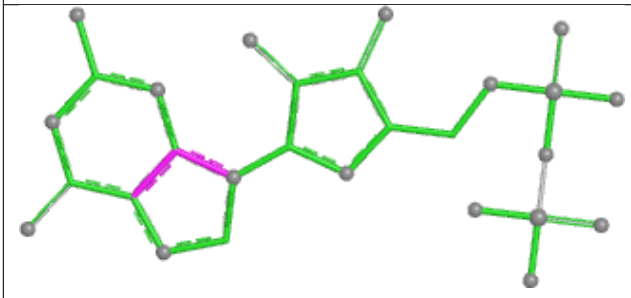


Rings

Ligand GDP MF 501



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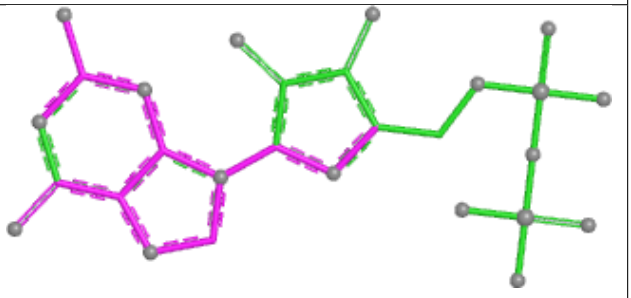

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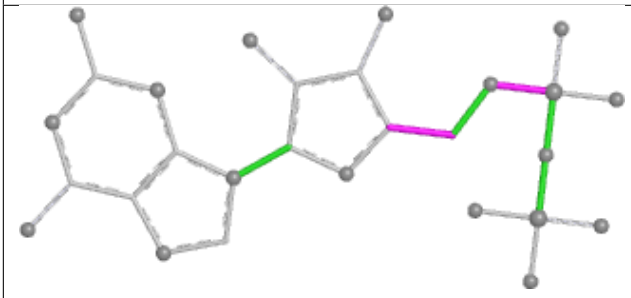

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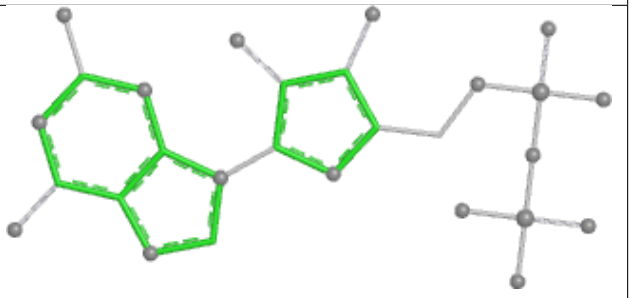
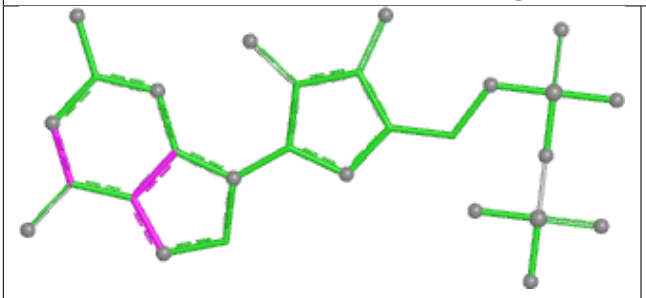


Rings

Ligand GDP CF 501



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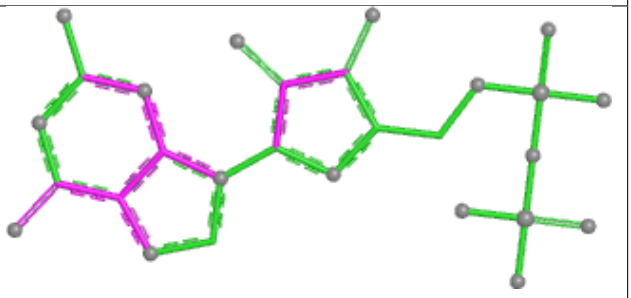

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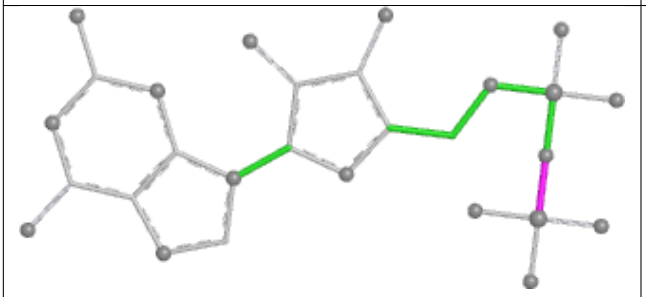

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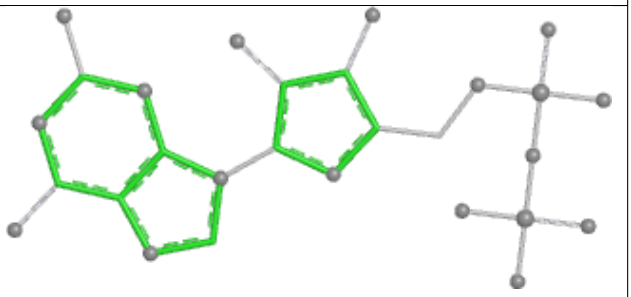
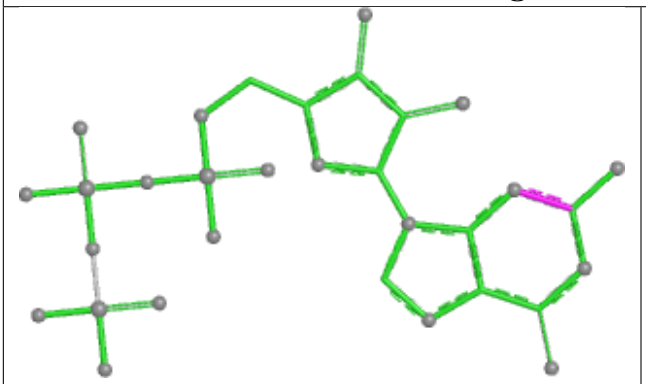


Rings

Ligand GTP RG 501



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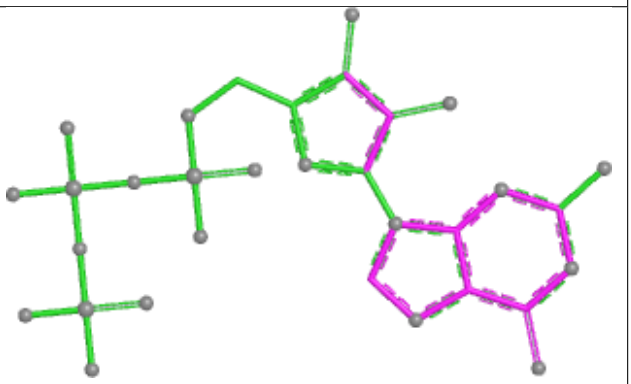

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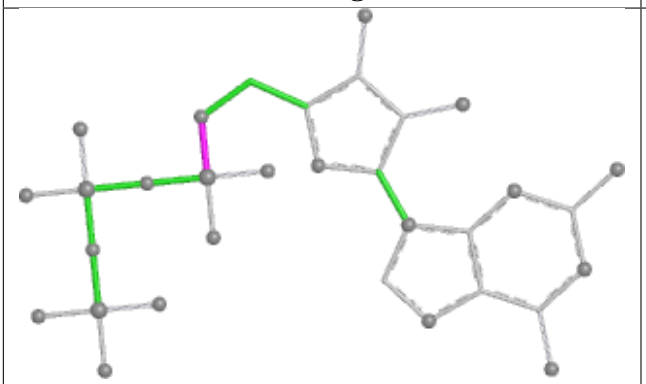
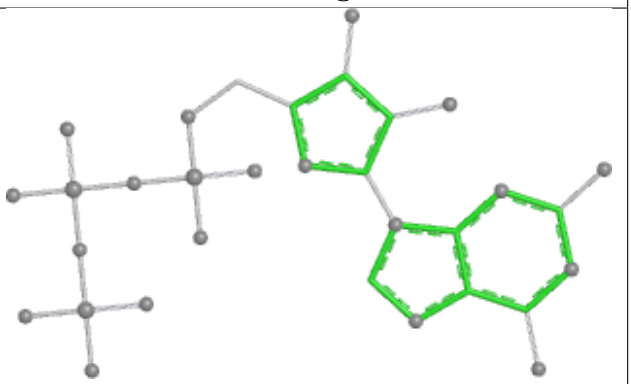
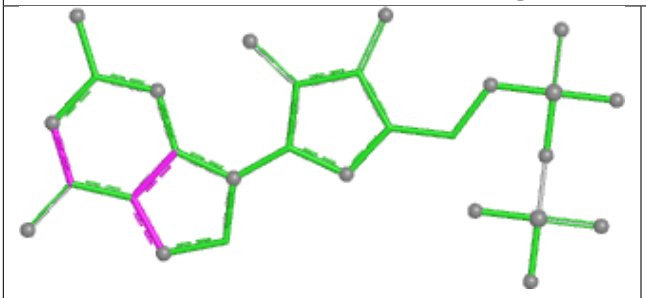


Torsions



Rings

Ligand GDP OJ 501



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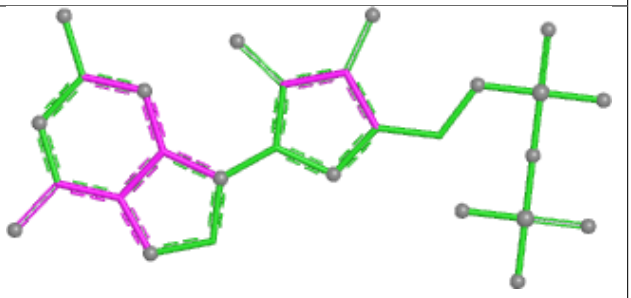

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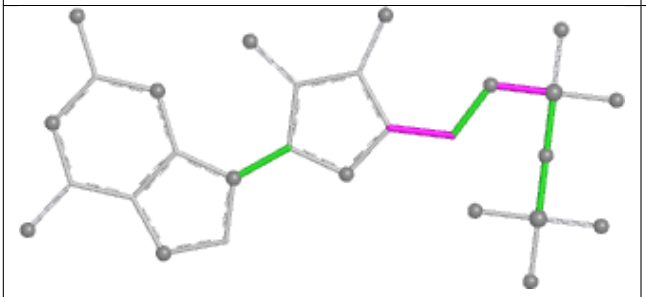

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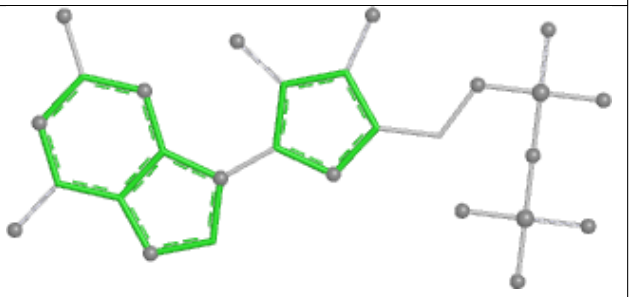
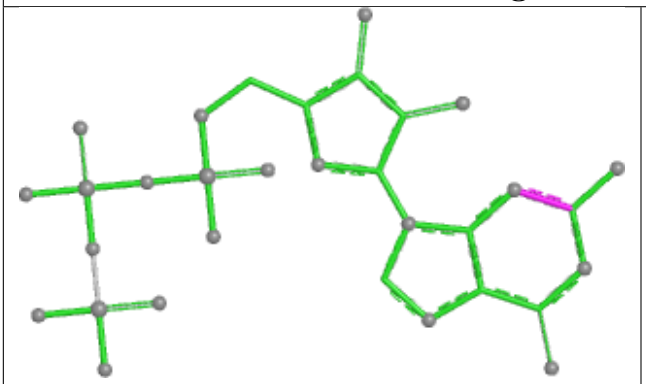


Rings

Ligand GTP KE 501



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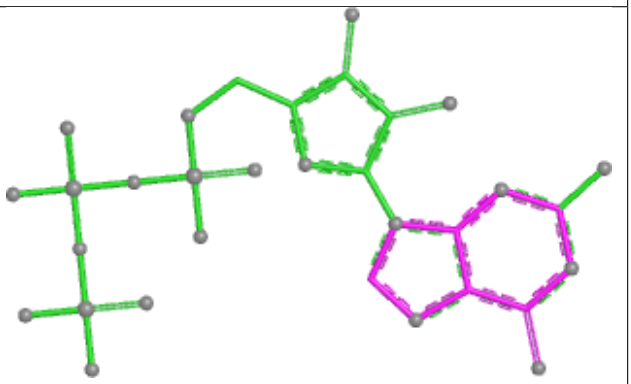

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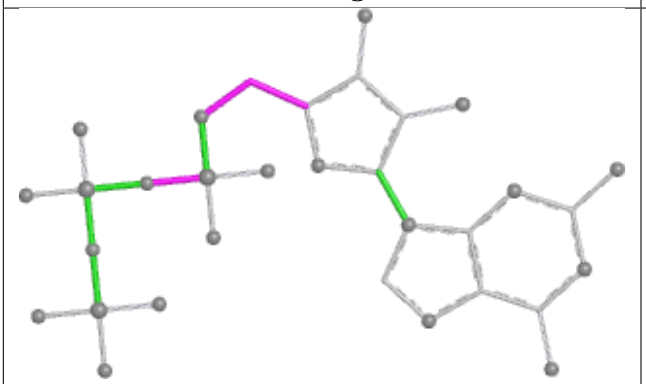

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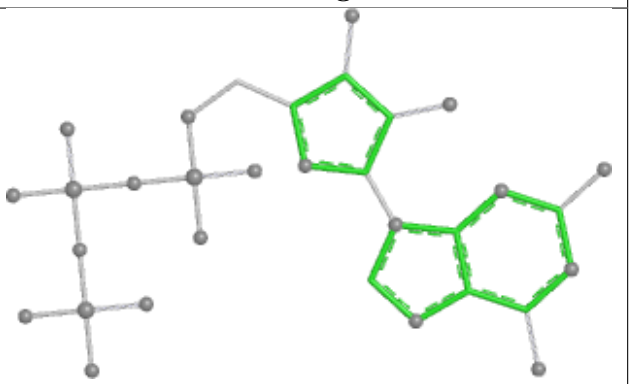

Rings

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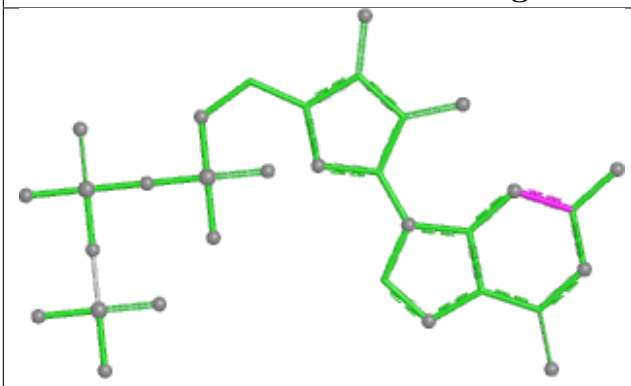

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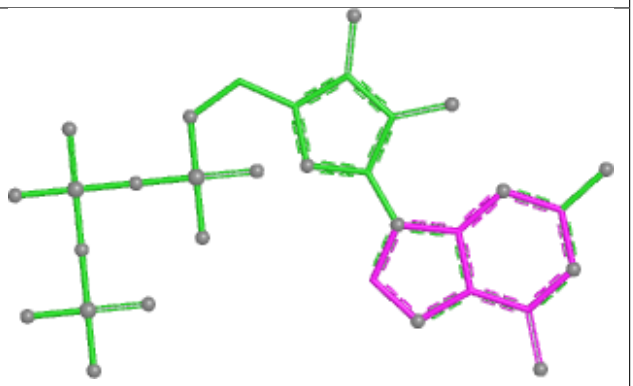

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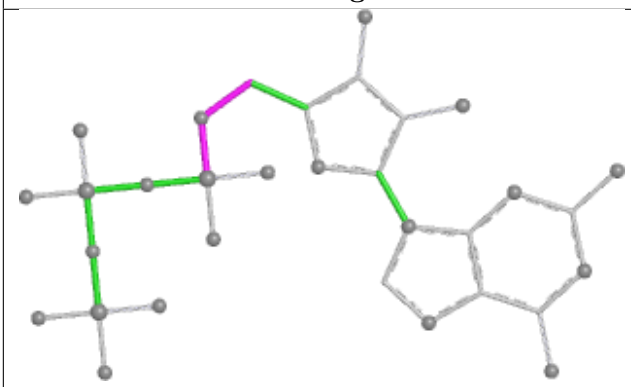

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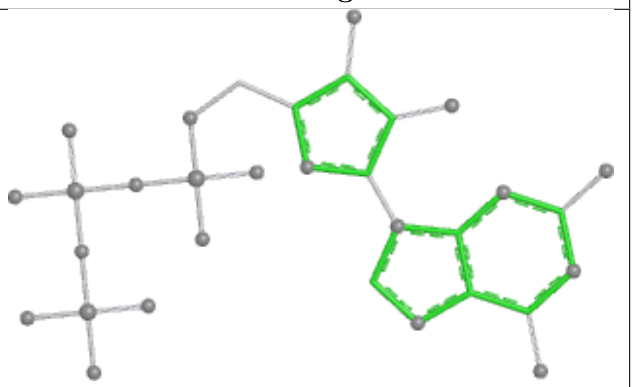
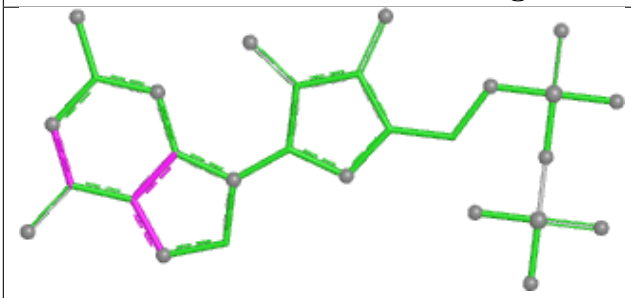


Rings

Ligand GDP FD 501



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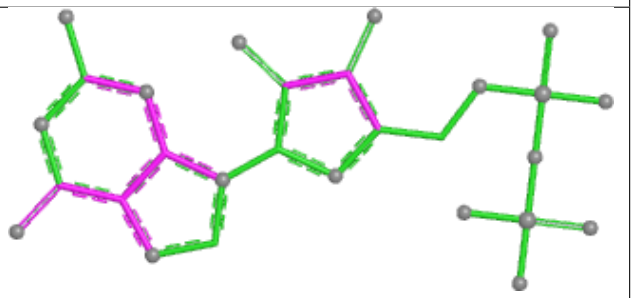

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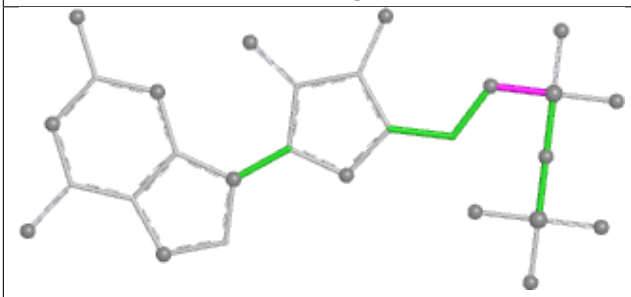

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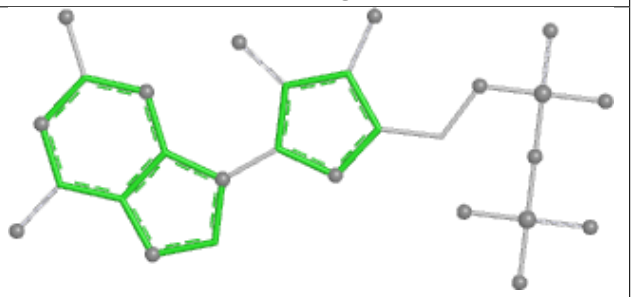

Rings

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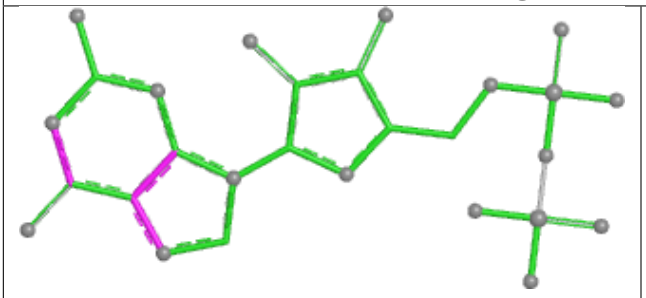

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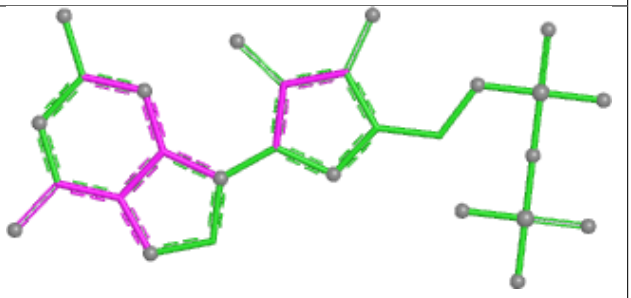

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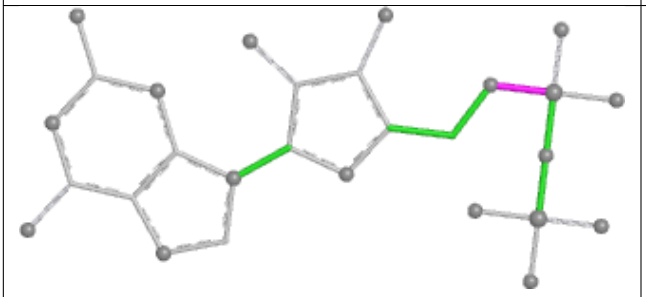

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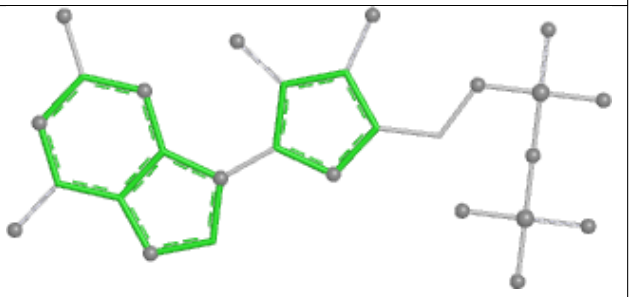

Rings

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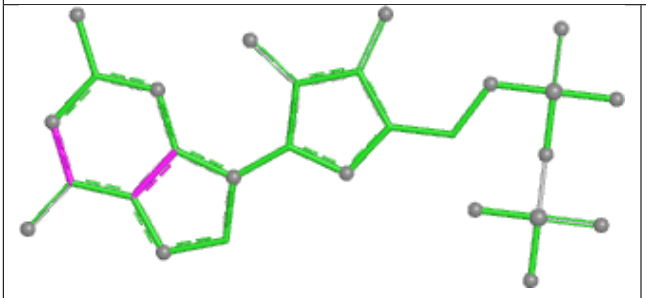

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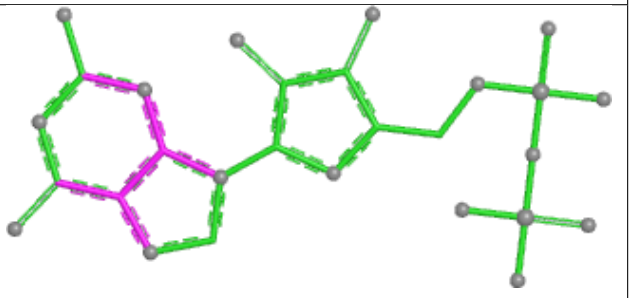

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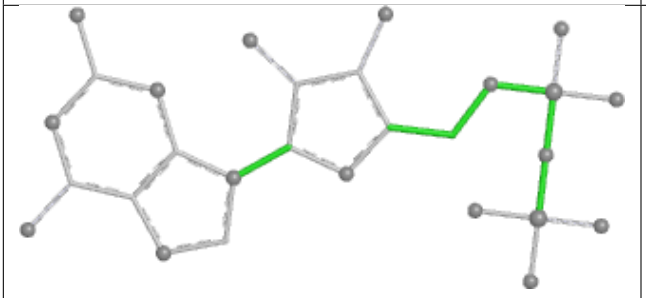

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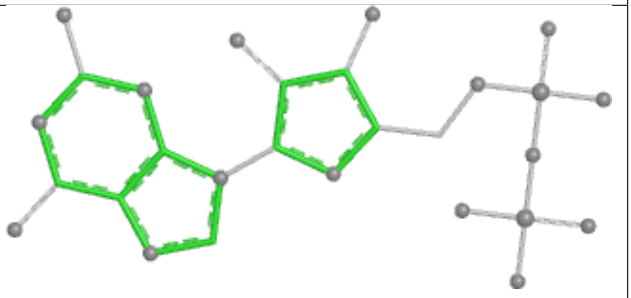

Rings

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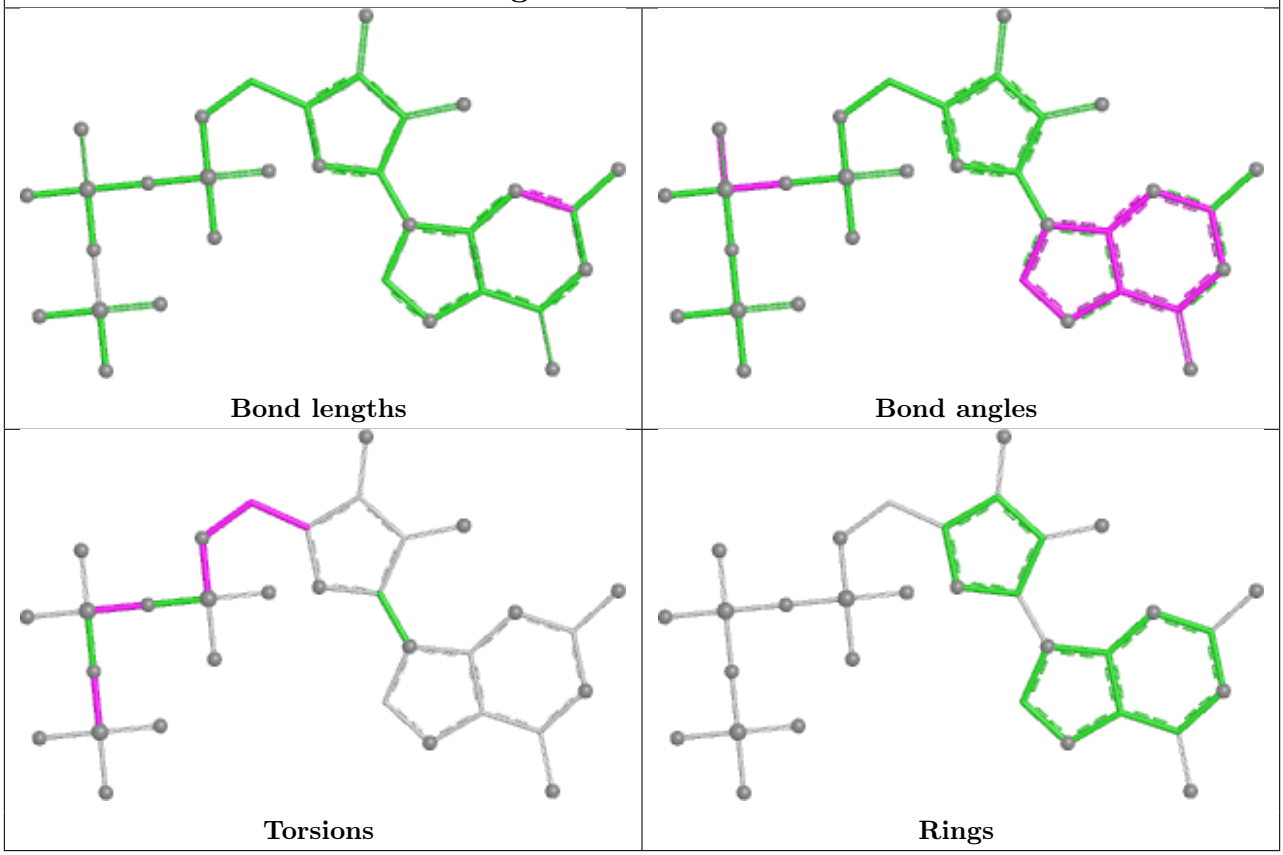

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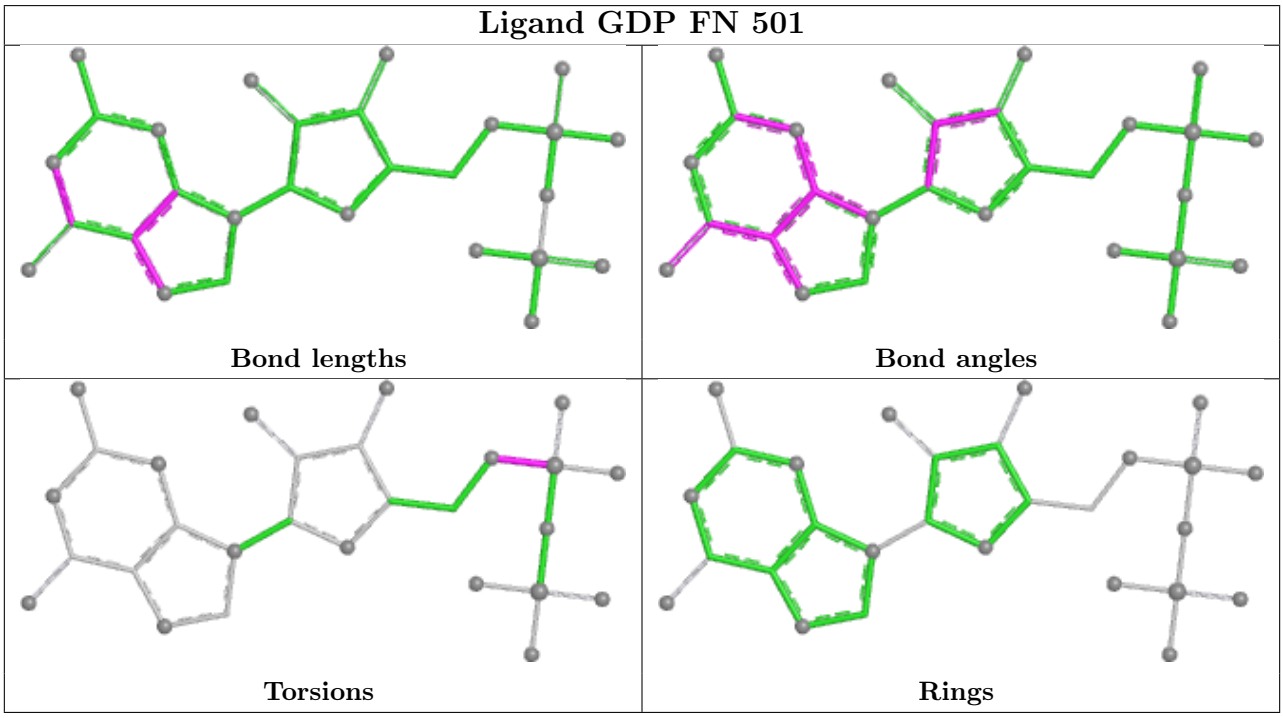

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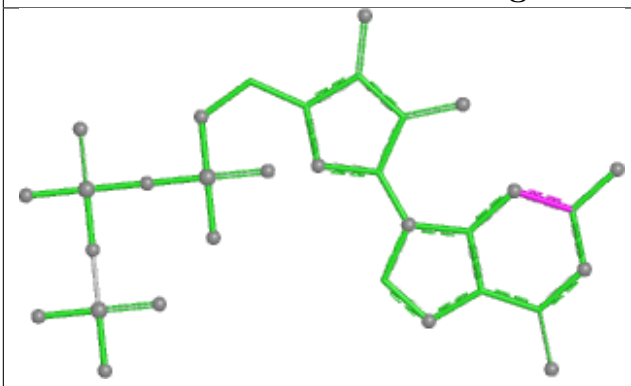

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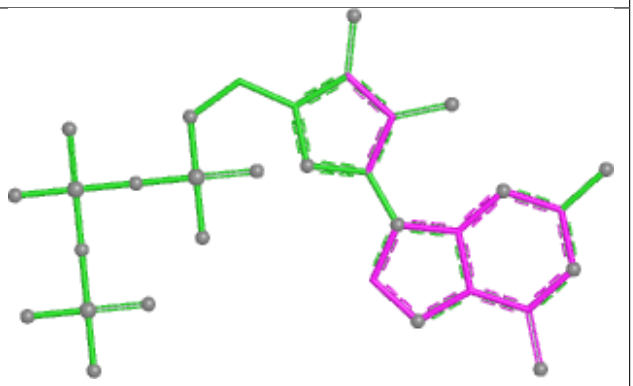
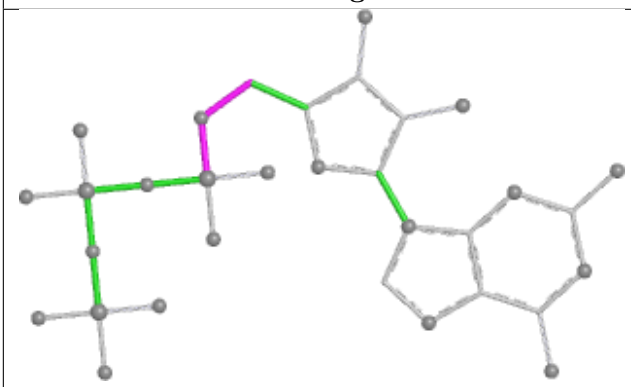


Bond angles



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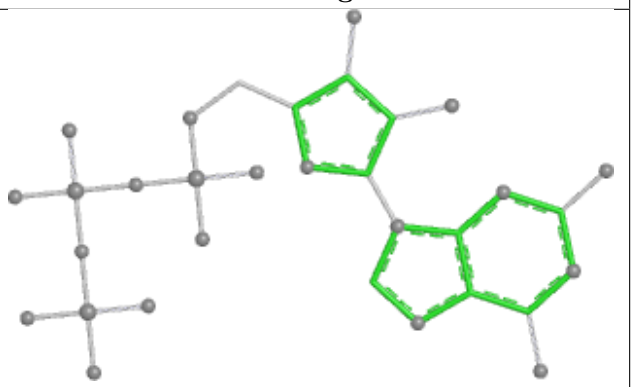

Rings

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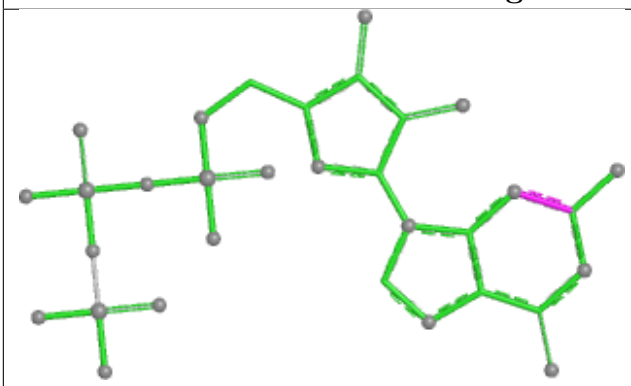

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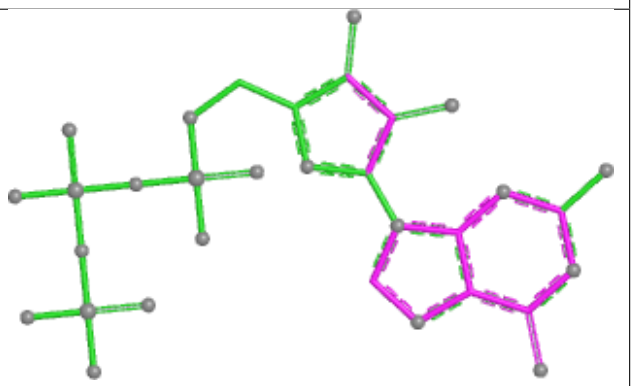

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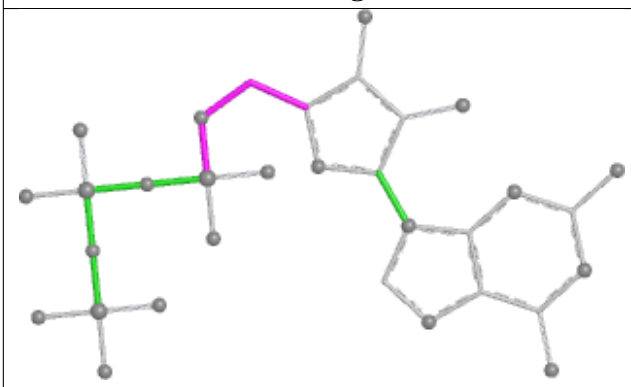

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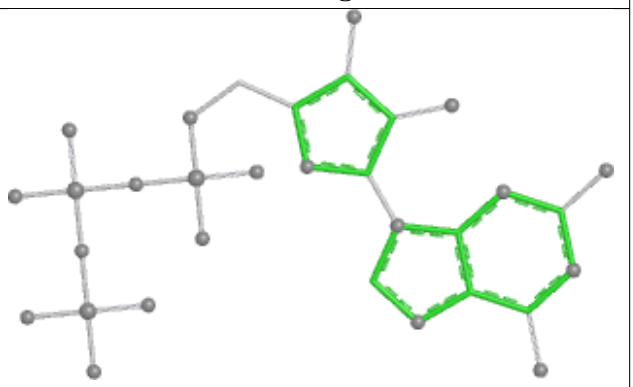

Rings

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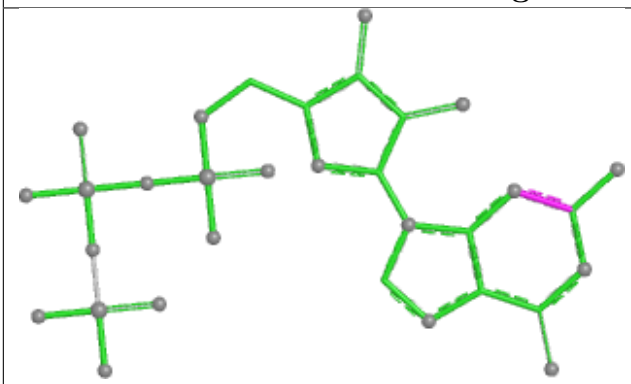

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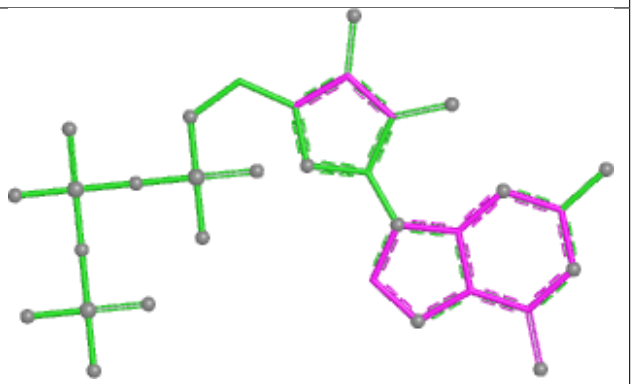

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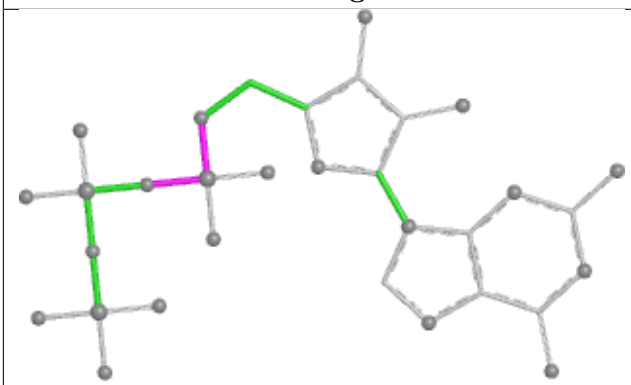

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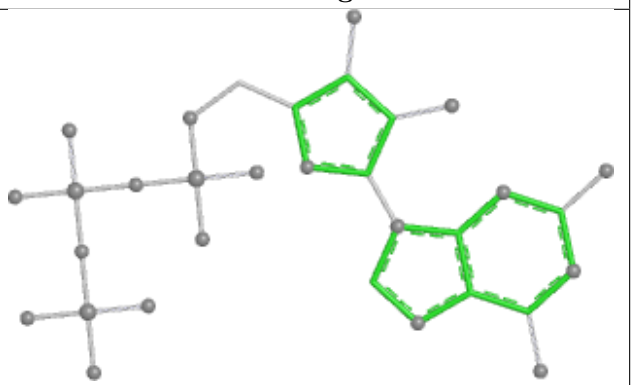

Rings

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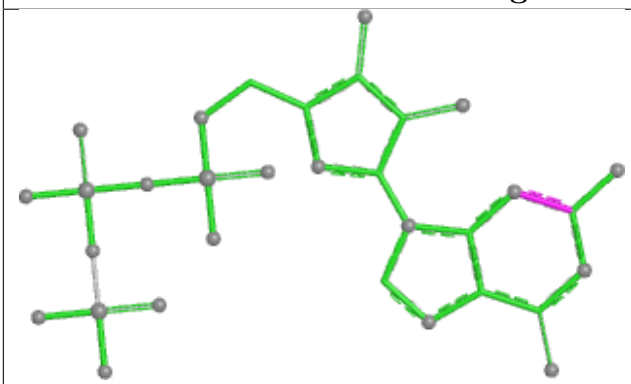

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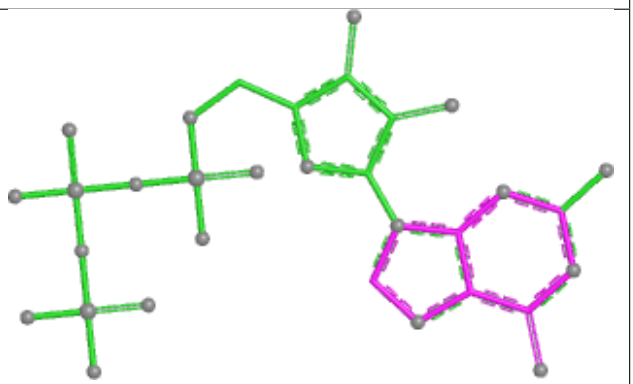

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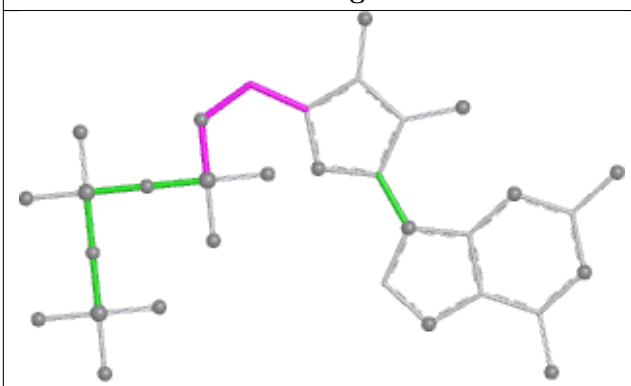

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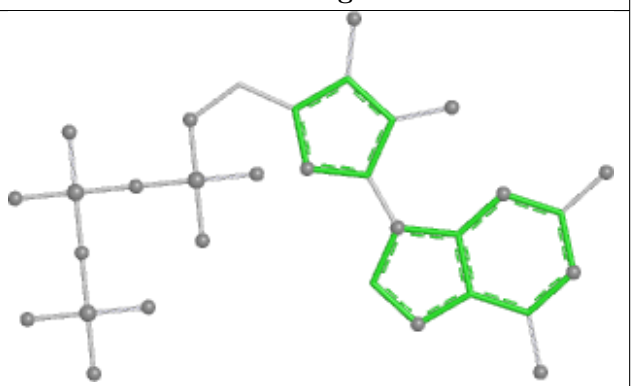
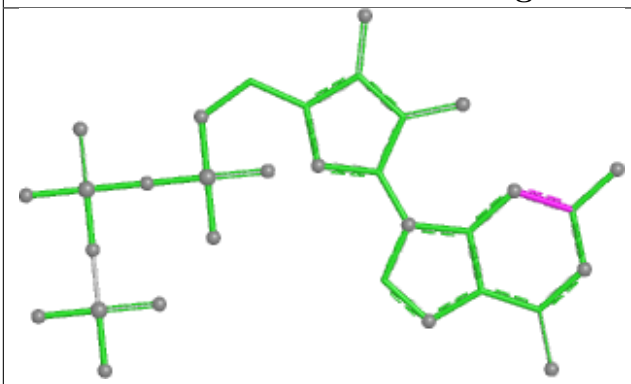


Rings

Ligand GTP VI 502



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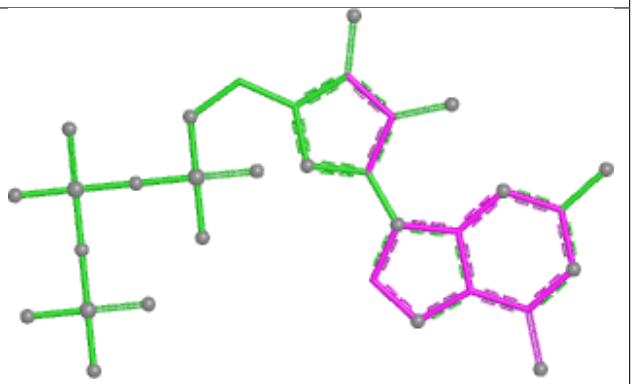
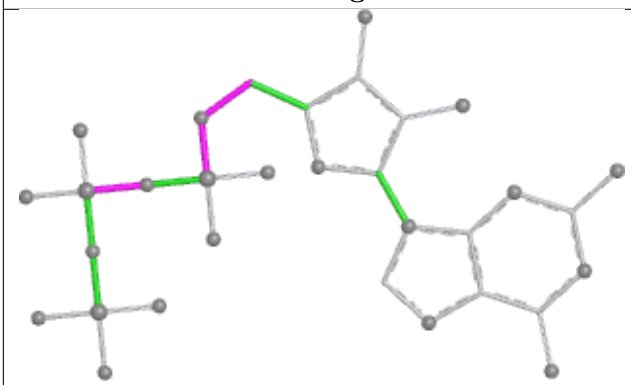


Bond angles



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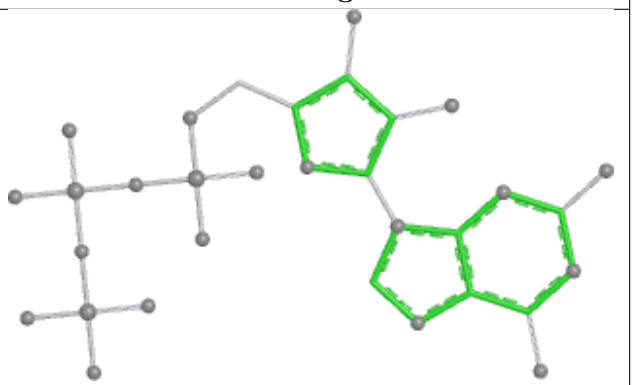
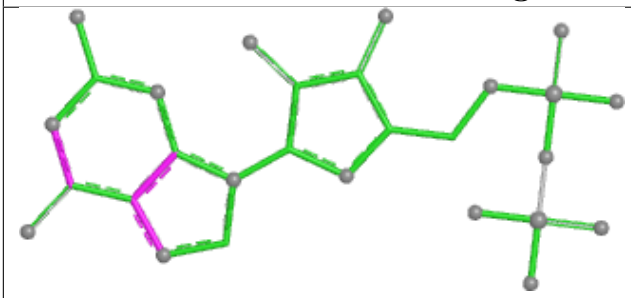


Rings

Ligand GDP BJ 501



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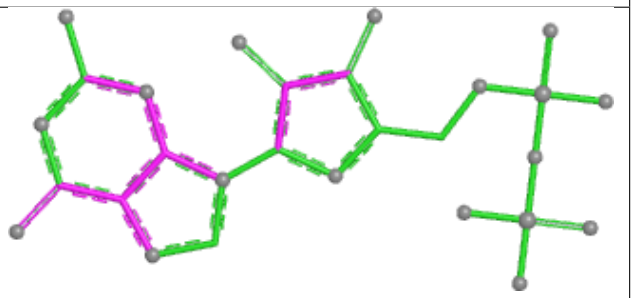

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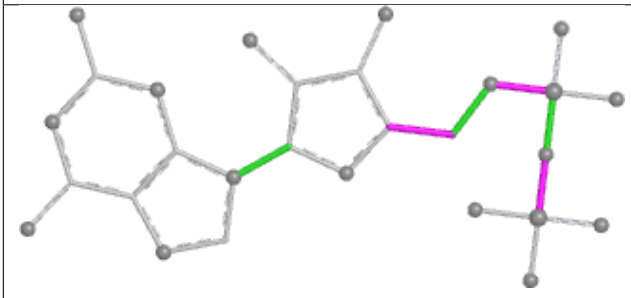

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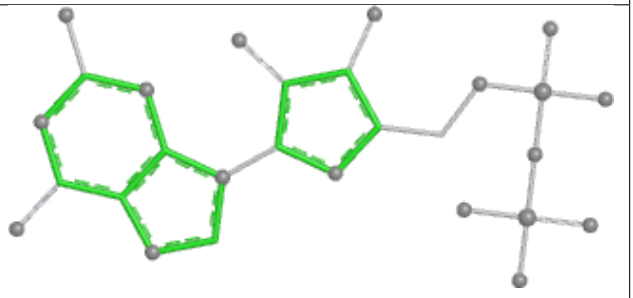

Rings

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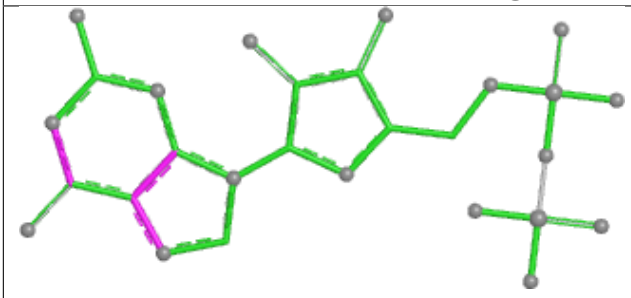

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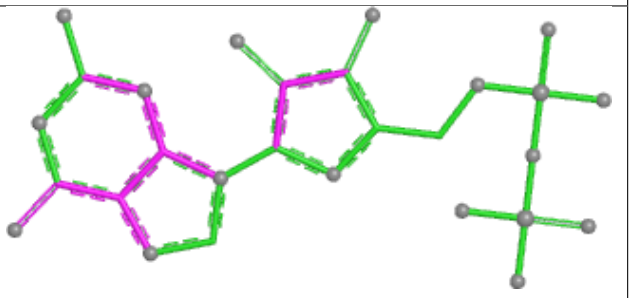
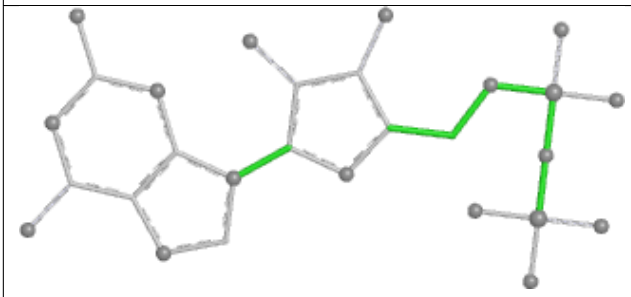
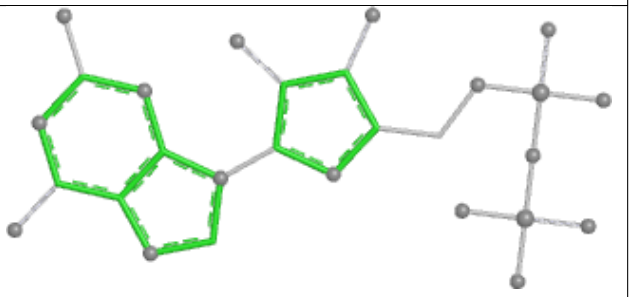


Bond angles

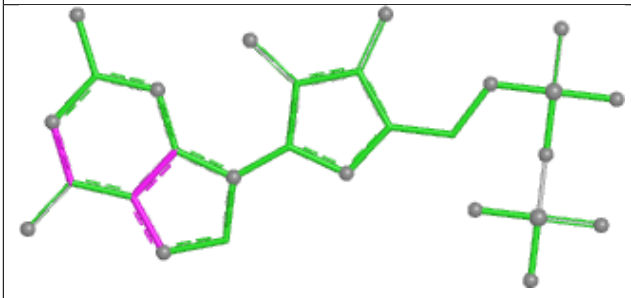


Torsions



Rings

Ligand GDP ED 501



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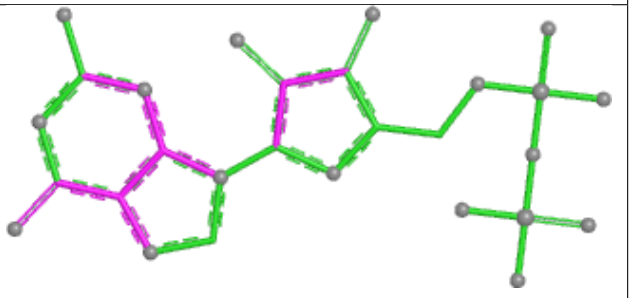

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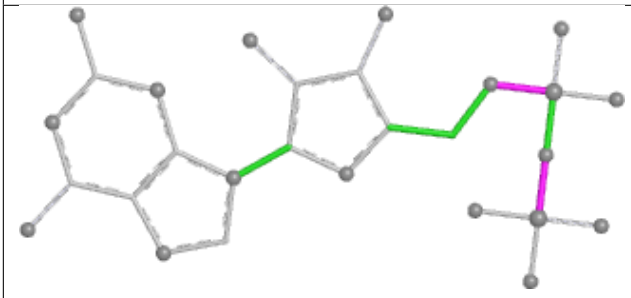

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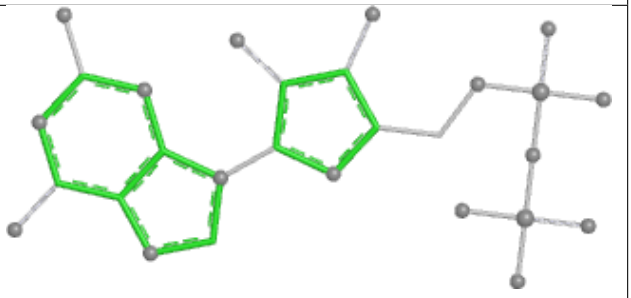
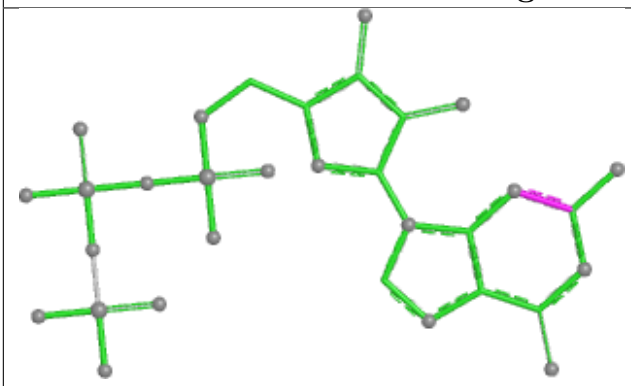


Rings

Ligand GTP EI 501



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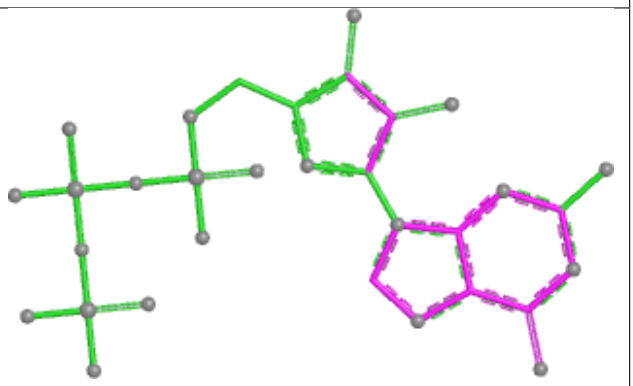

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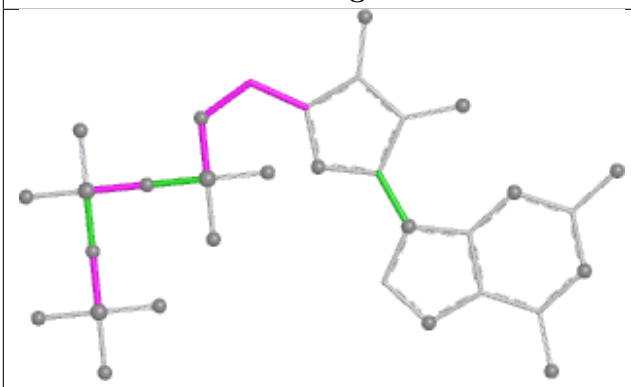

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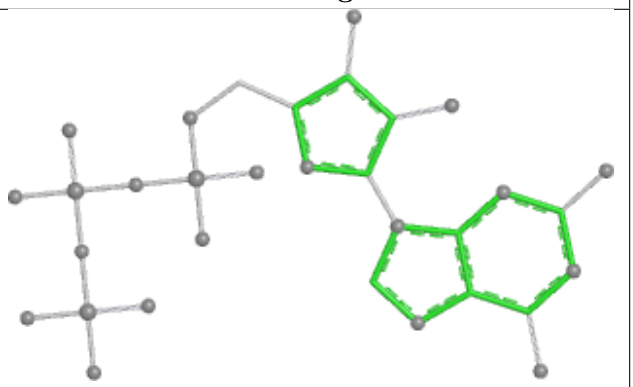

Rings

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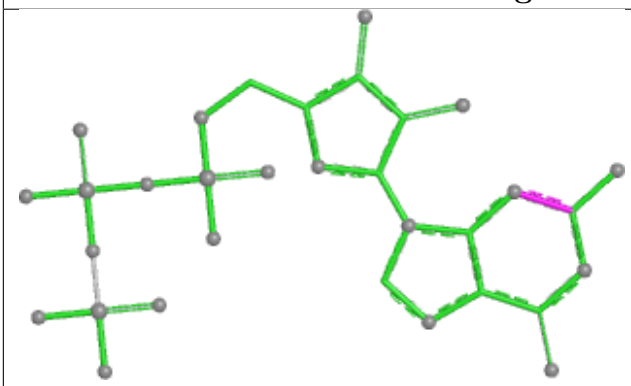

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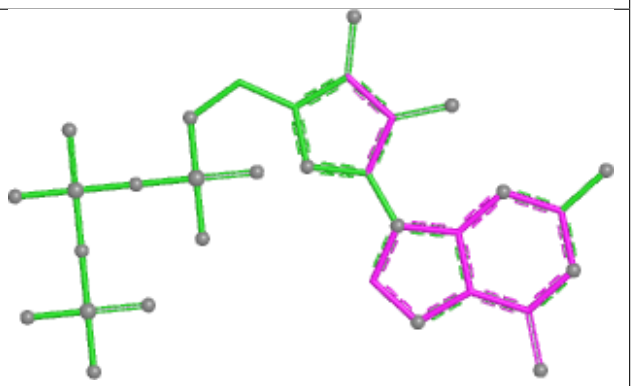

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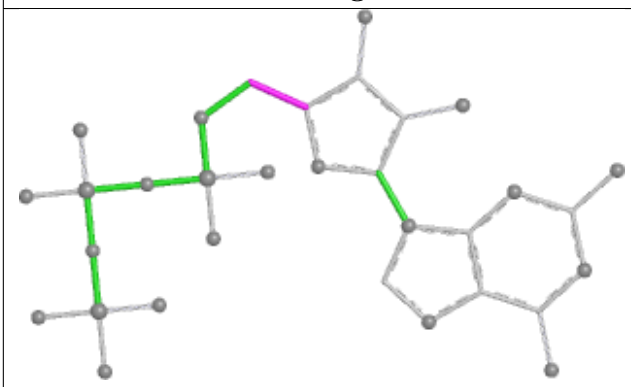

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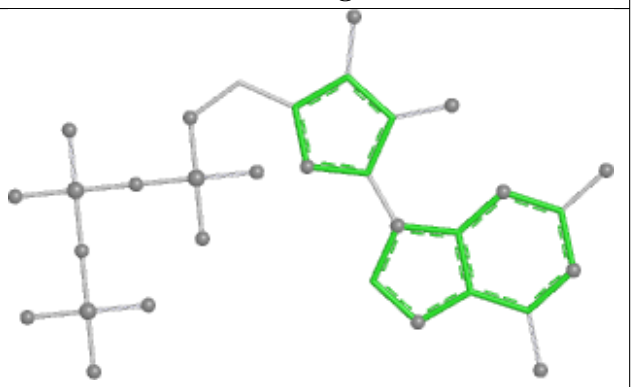
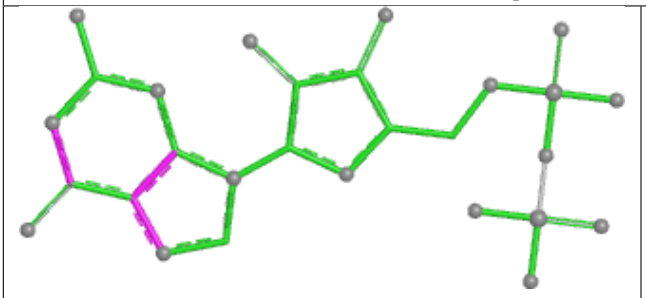


Rings

Ligand GDP CH 501



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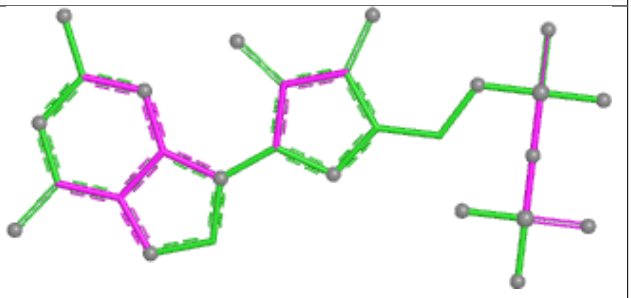

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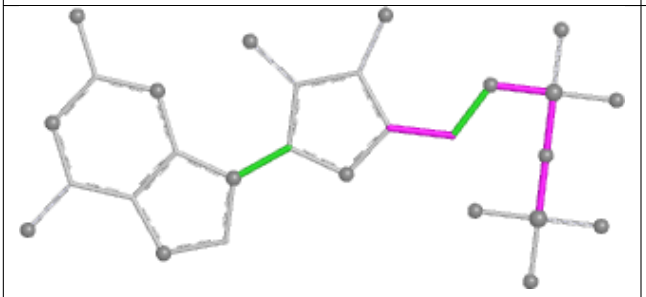

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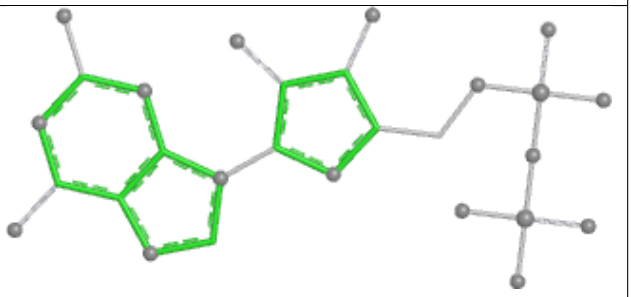

Rings

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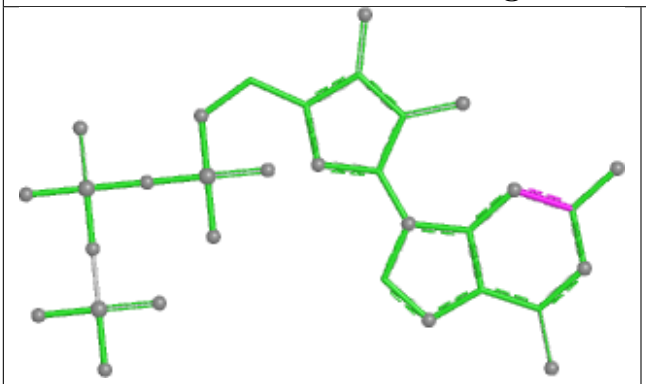

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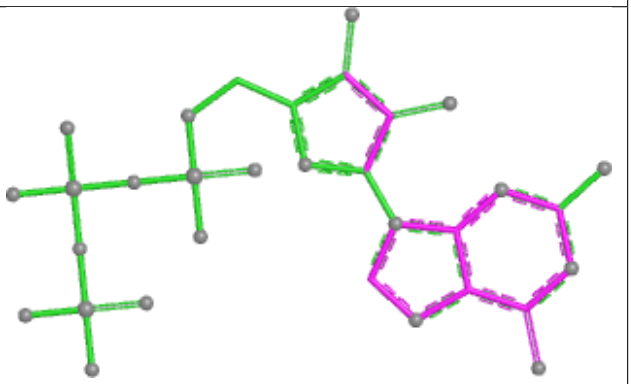

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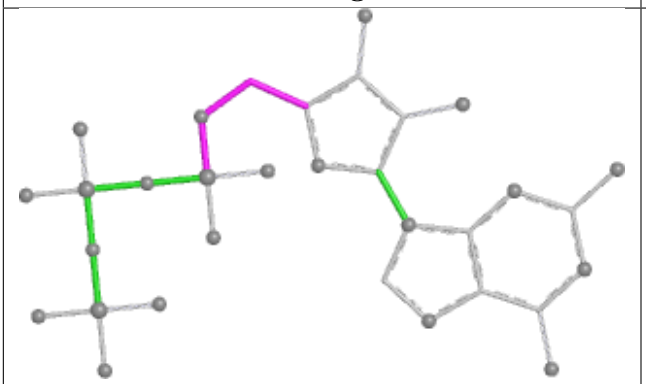

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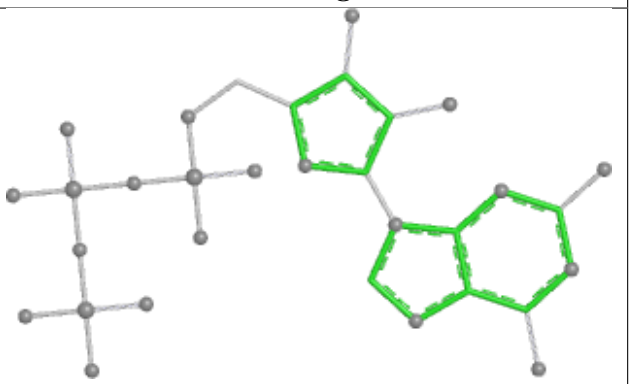
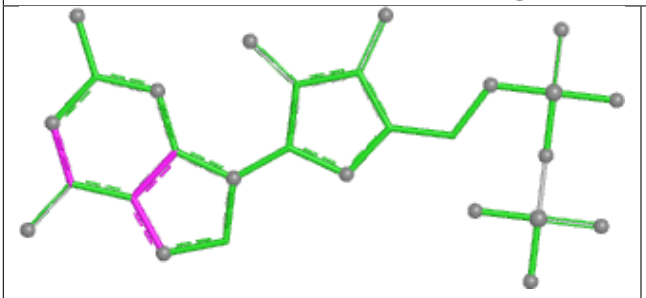


Rings

Ligand GDP PF 501



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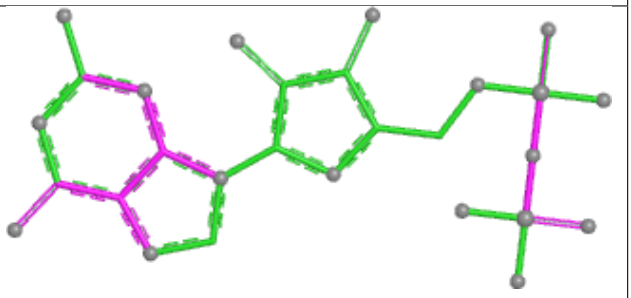

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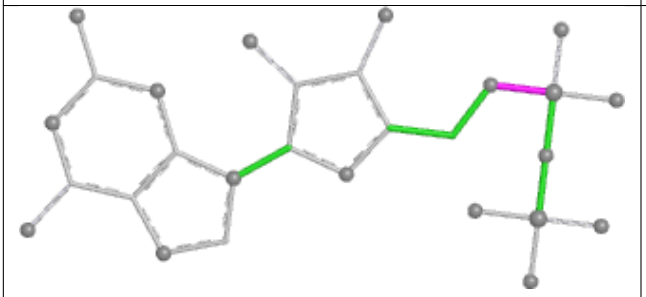

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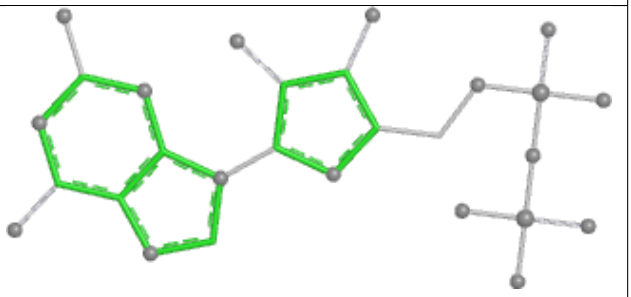
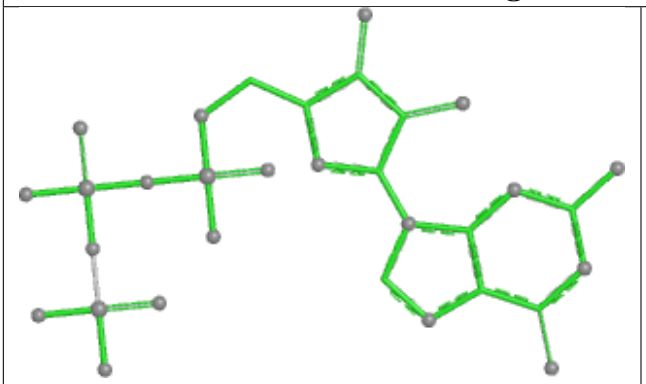


Rings

Ligand GTP UM 501



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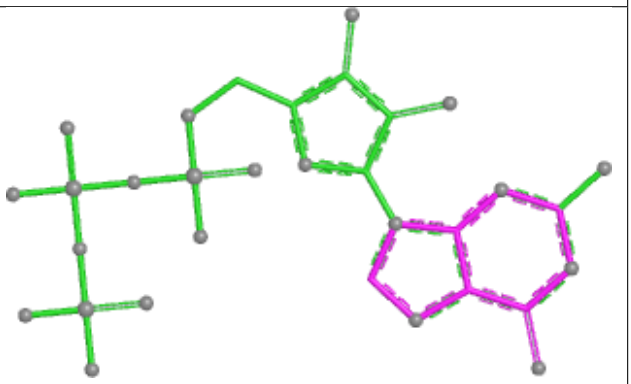

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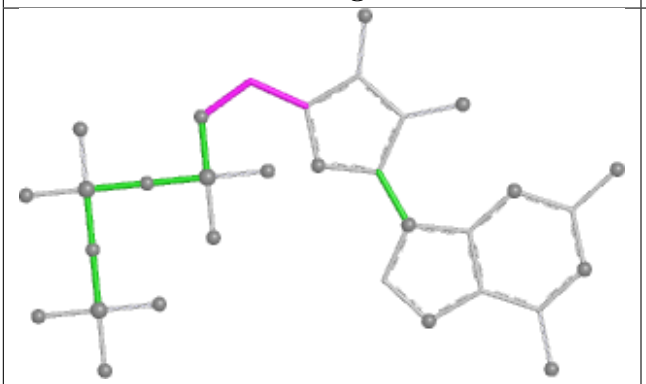

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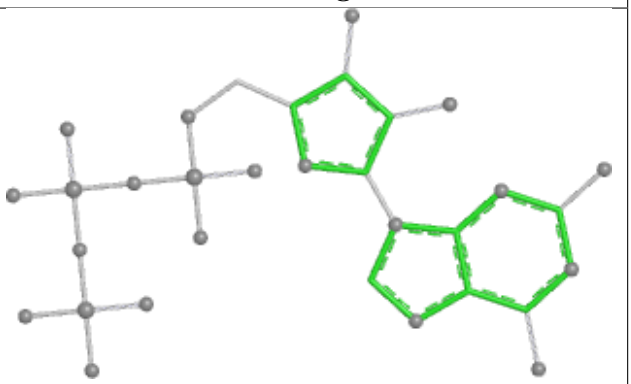
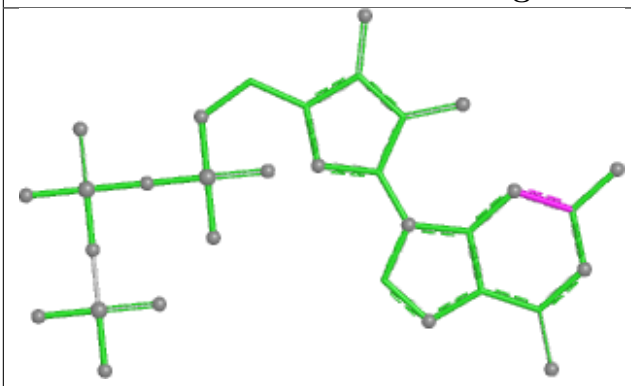


Rings

Ligand GTP LE 501



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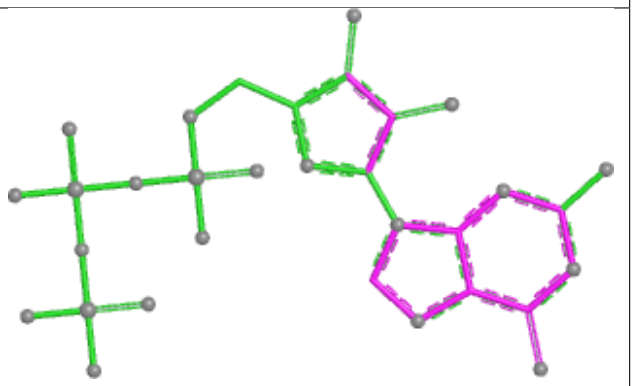

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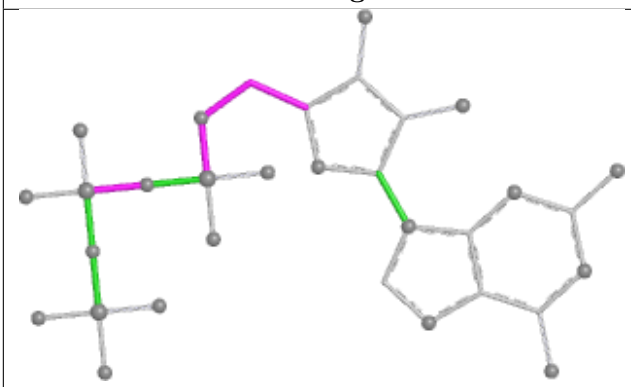

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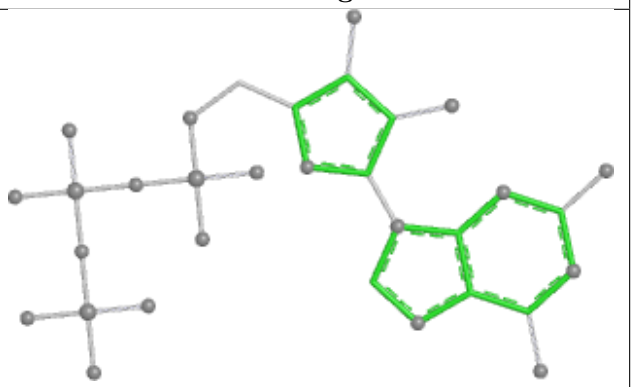
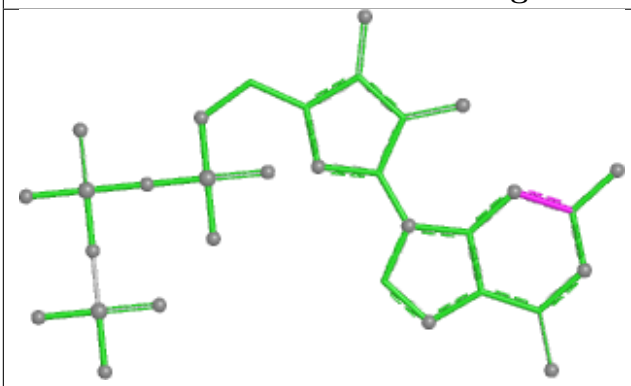


Rings

Ligand GTP RE 501



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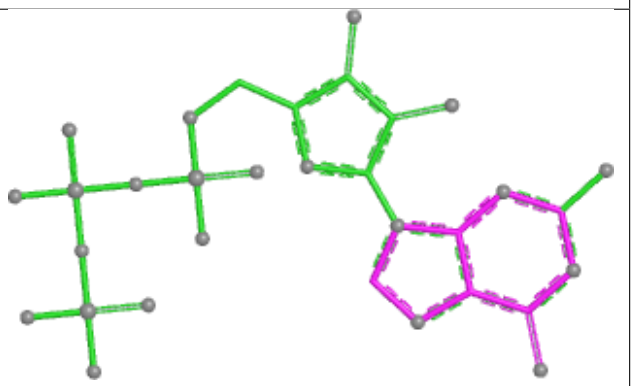

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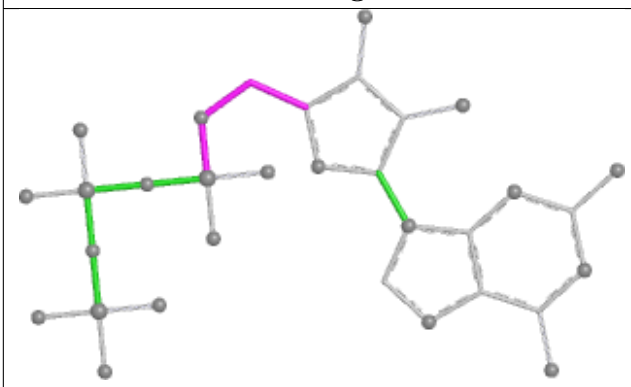

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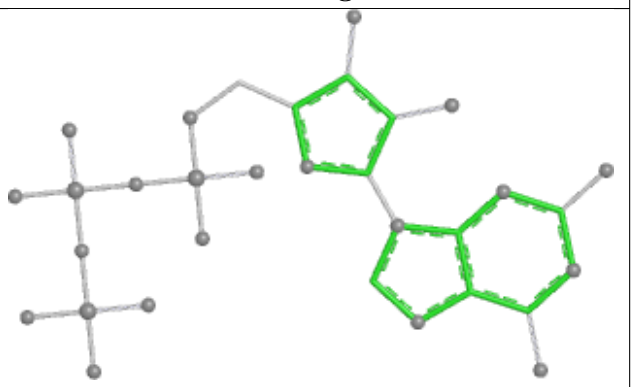
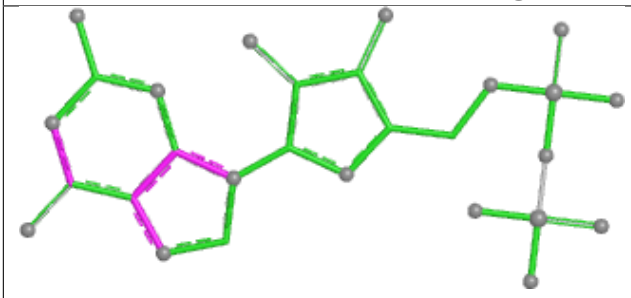


Rings

Ligand GDP LD 501



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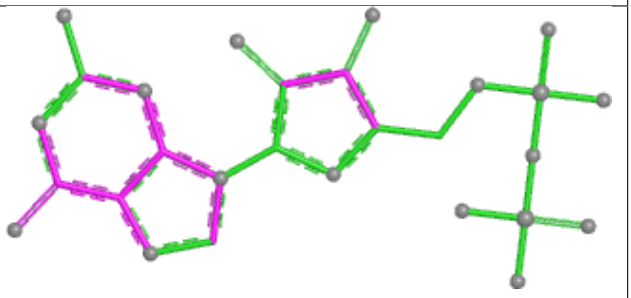

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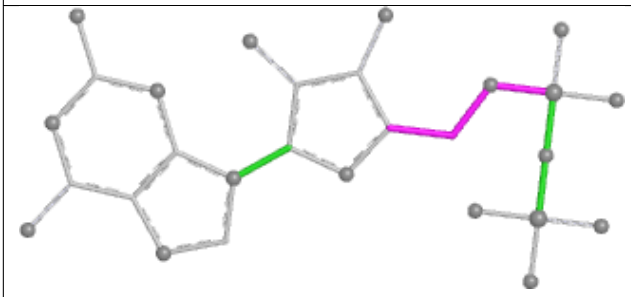

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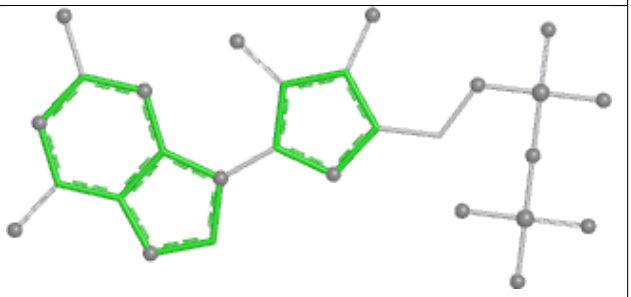
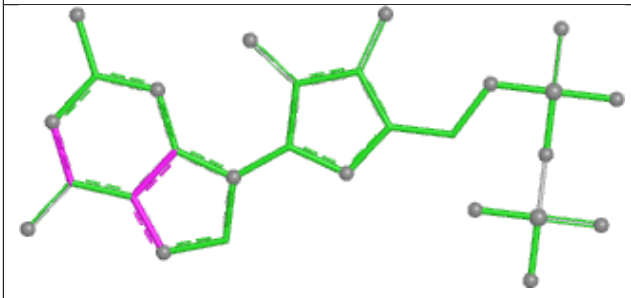


Rings

Ligand GDP WH 501



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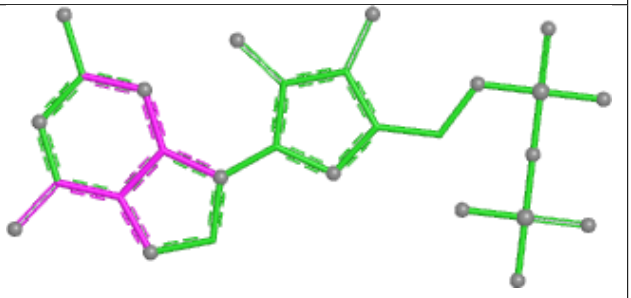

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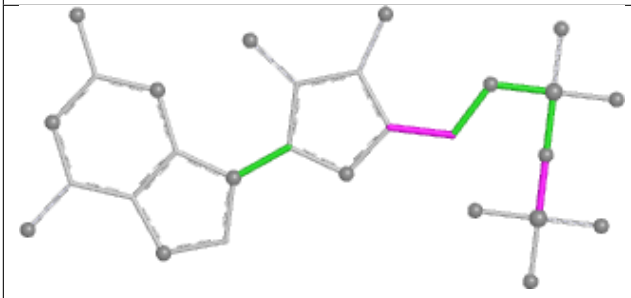

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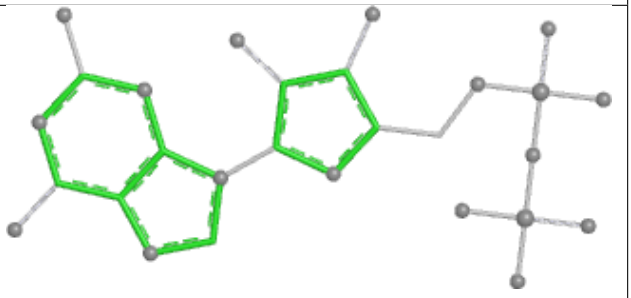
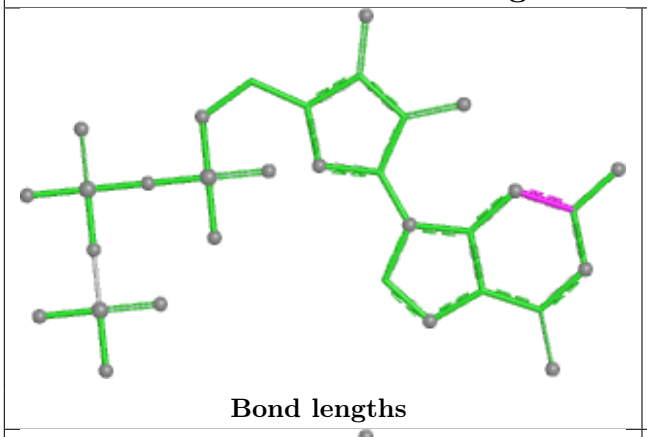


Rings

Ligand GTP QK 501



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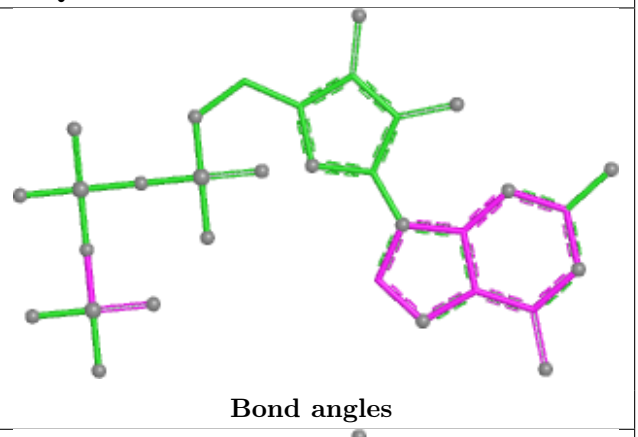

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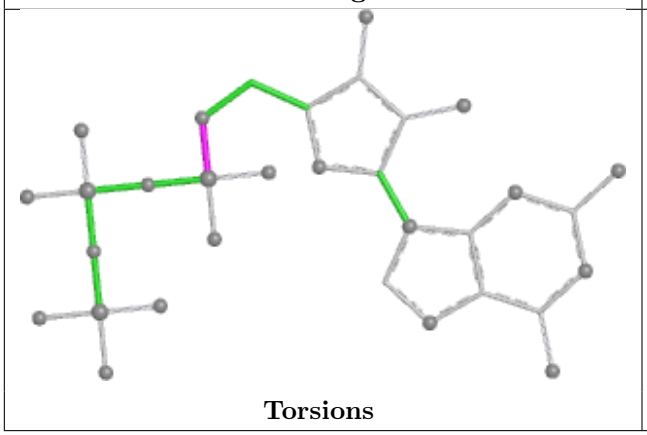

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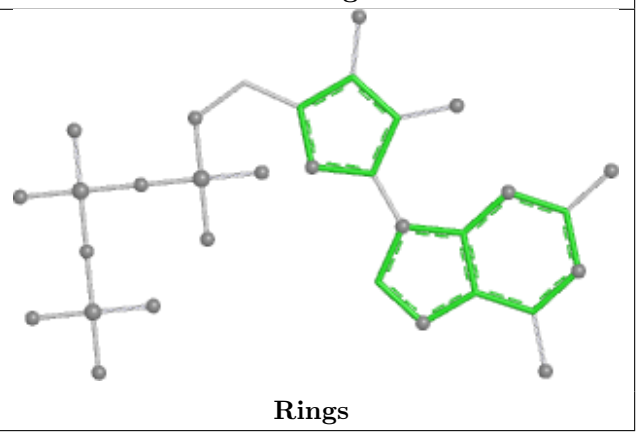
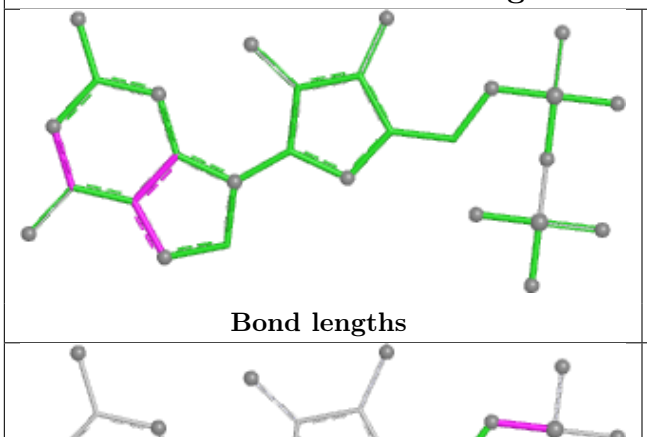


Rings

Ligand GDP HN 501



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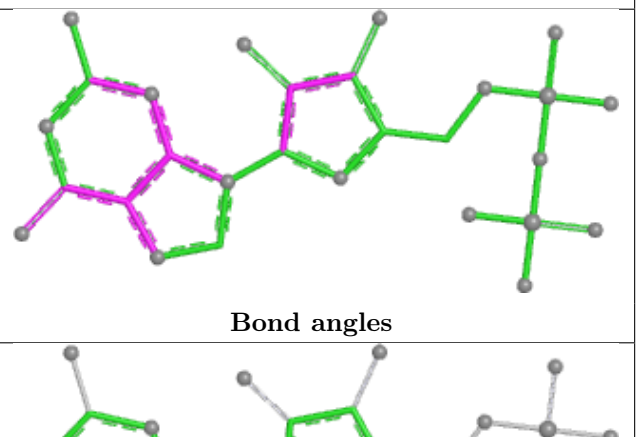

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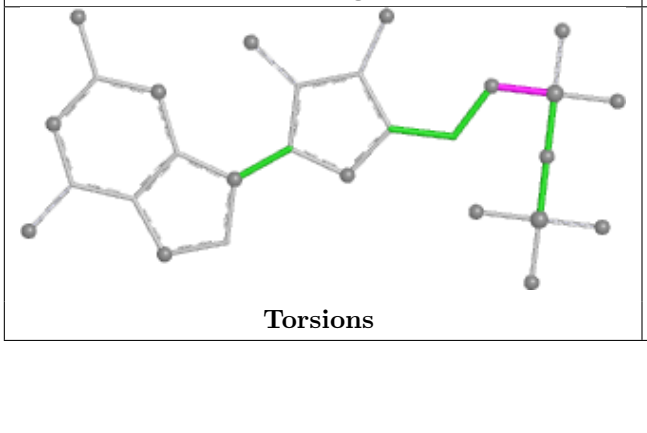
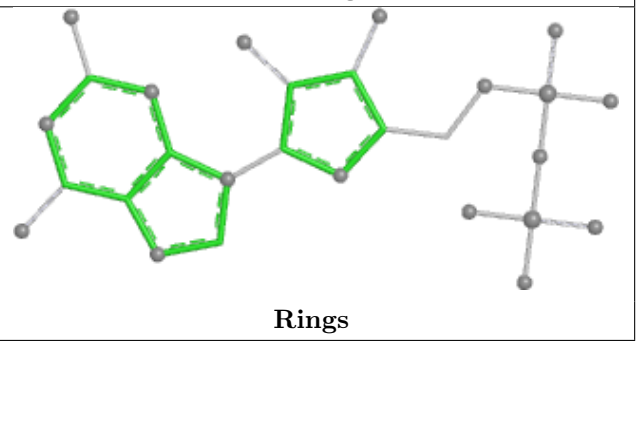


Torsions



Rings

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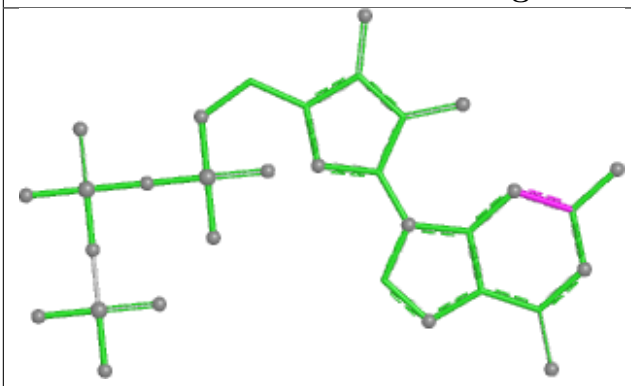
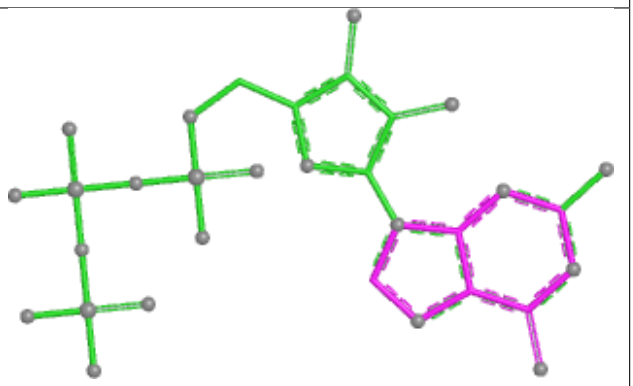


Bond lengths



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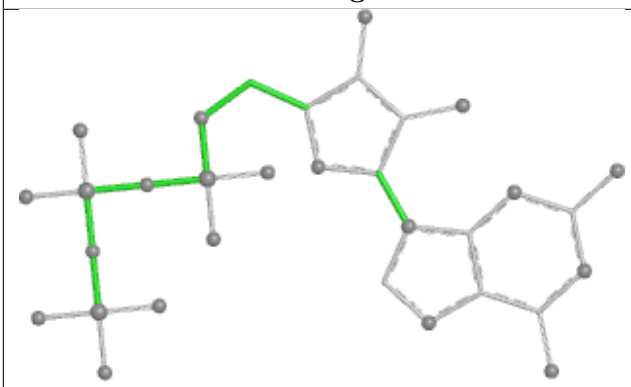

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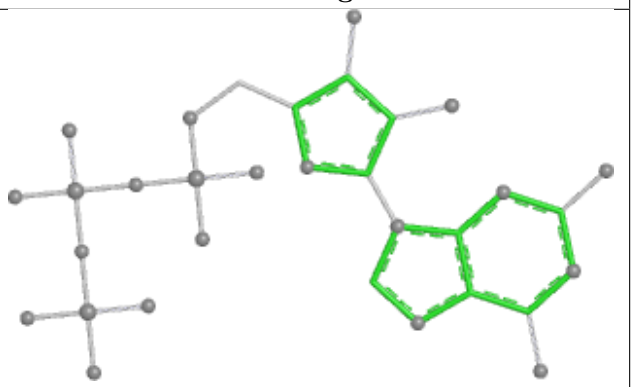
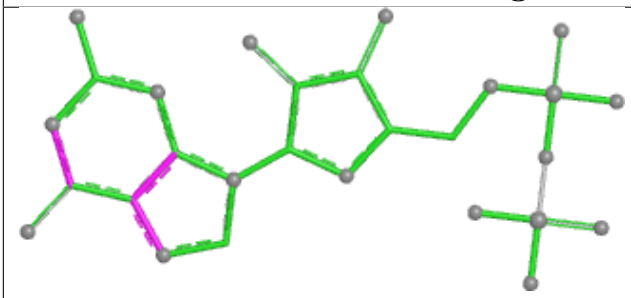


Rings

Ligand GDP UL 501



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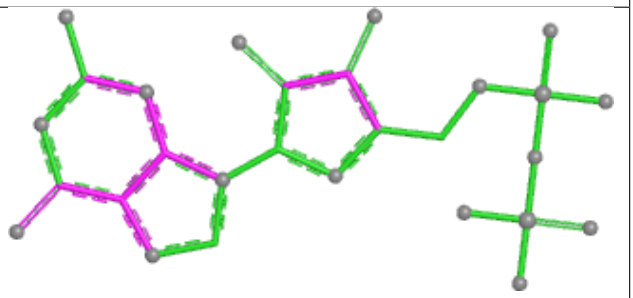

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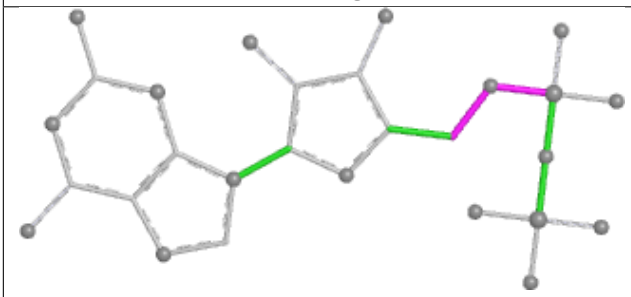

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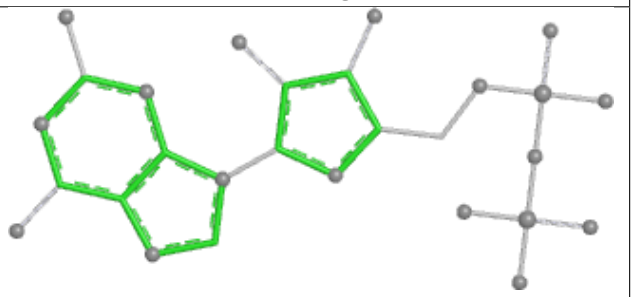
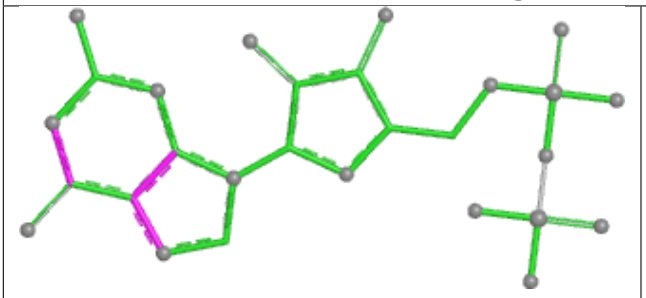


Rings

Ligand GDP RF 501



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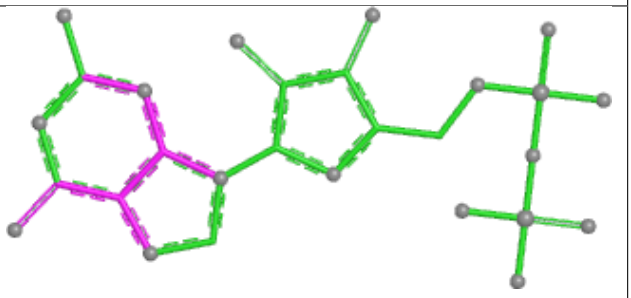

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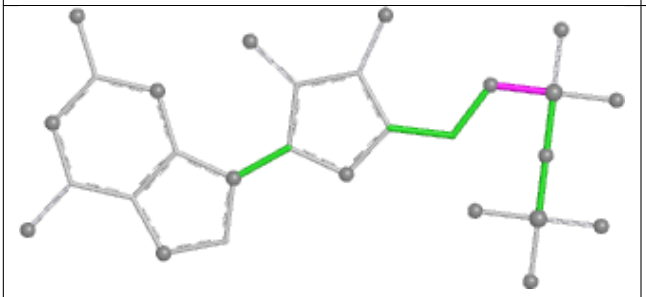

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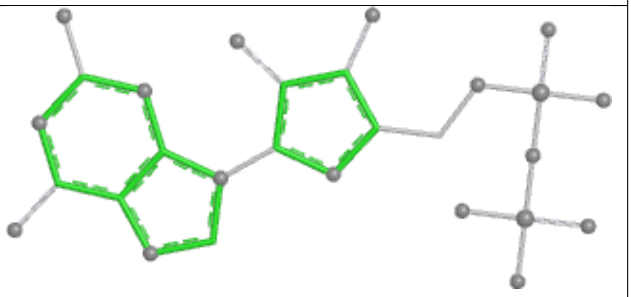
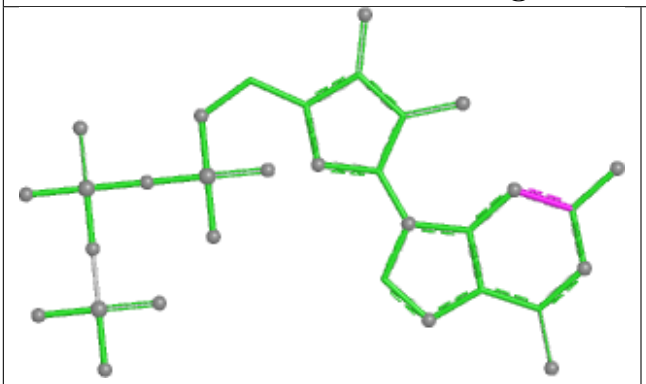


Rings

Ligand GTP BC 501



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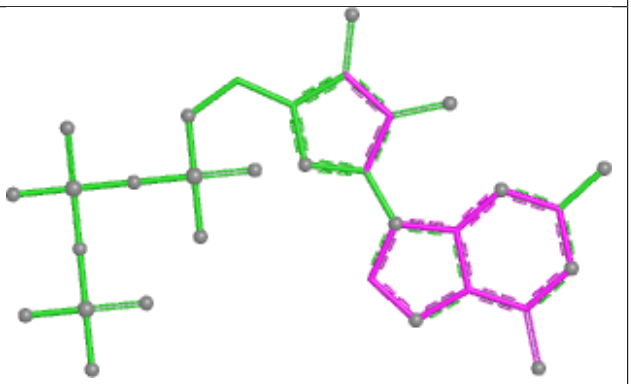

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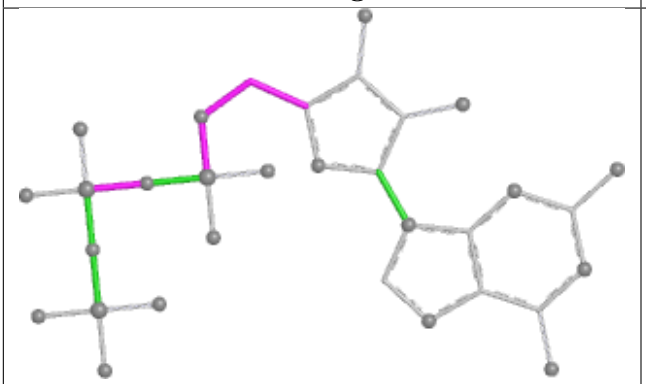

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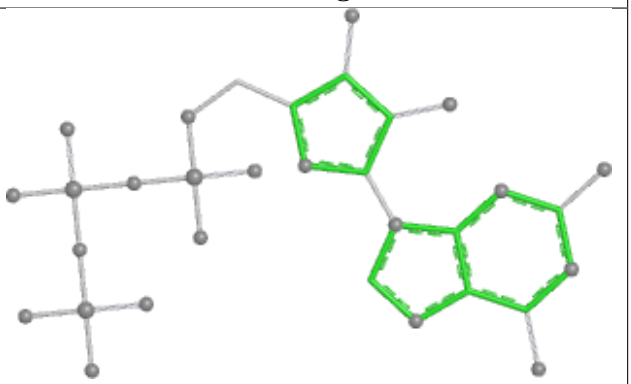
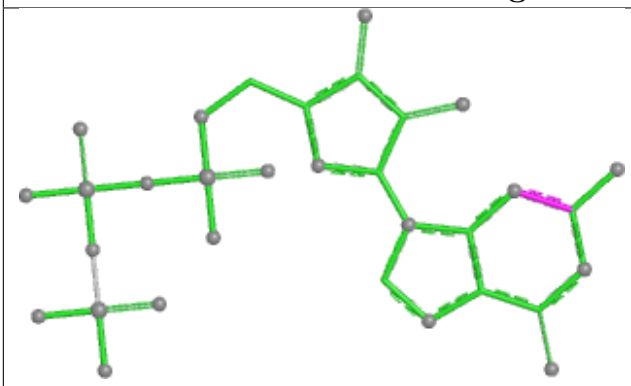


Rings

Ligand GTP AA 501



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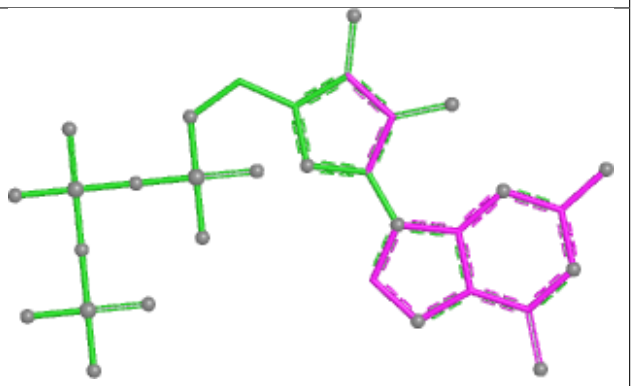

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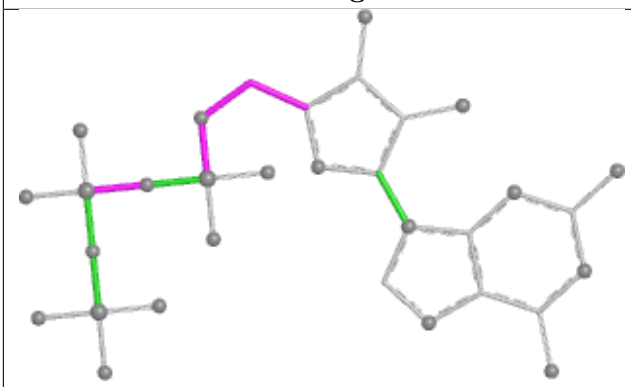

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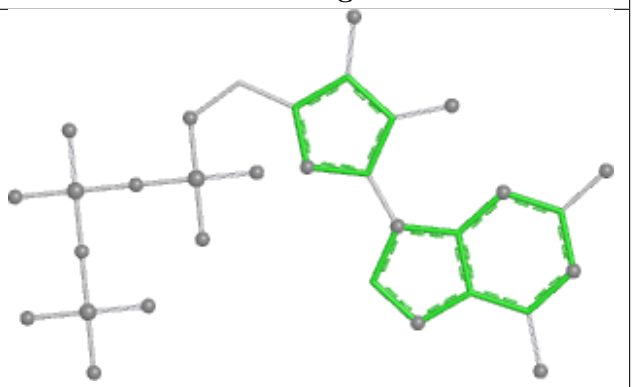
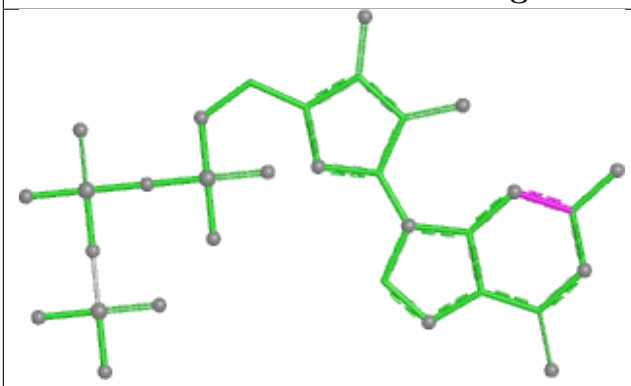


Rings

Ligand GTP QE 501



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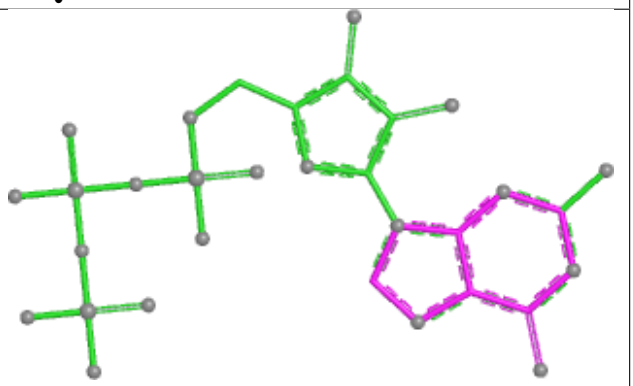

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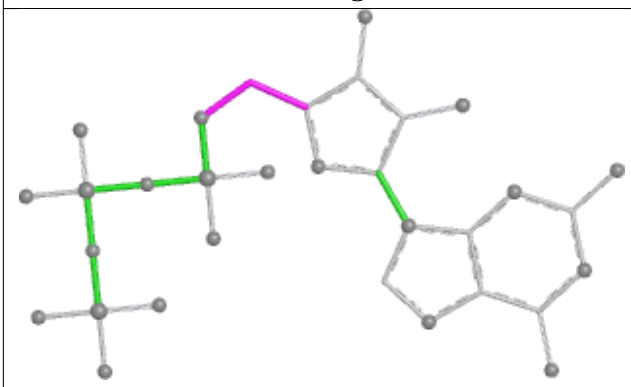

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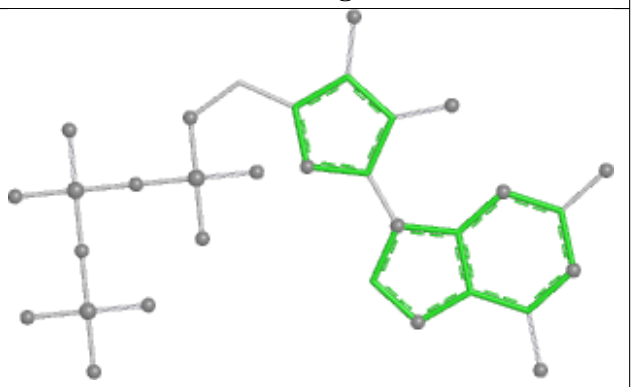
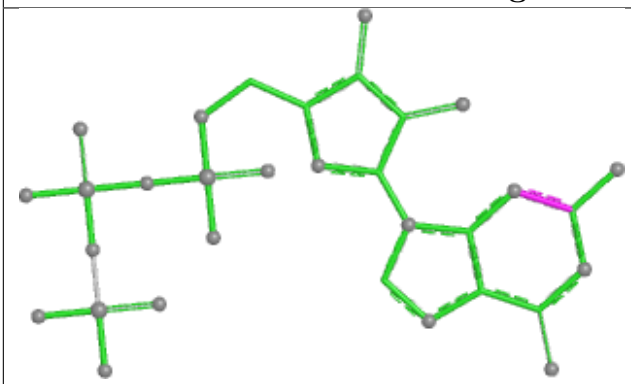


Rings

Ligand GTP TK 501



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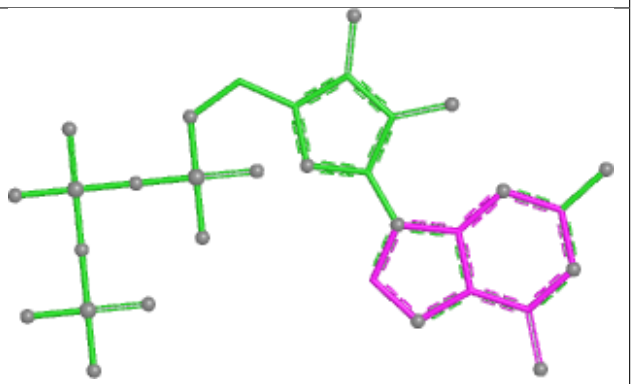

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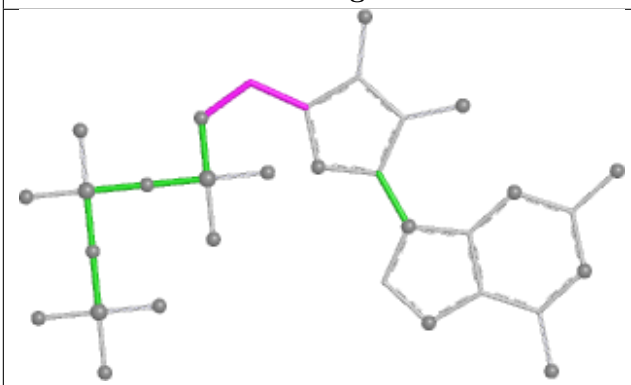

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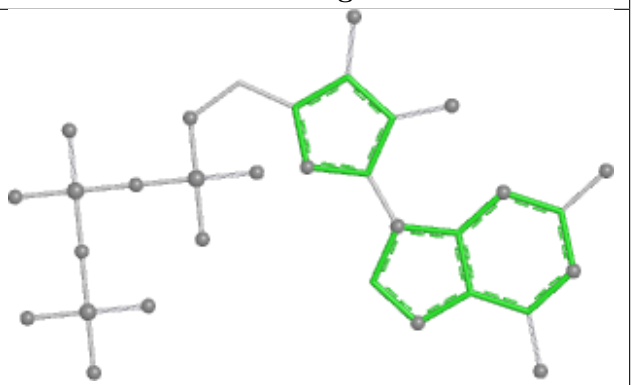

Rings

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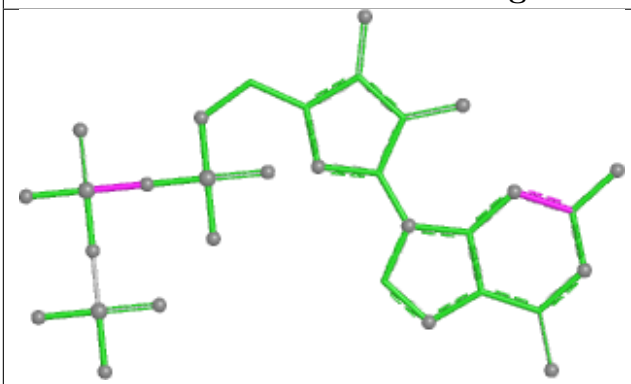

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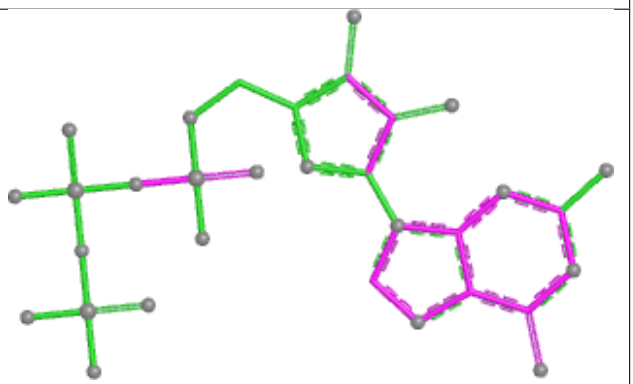

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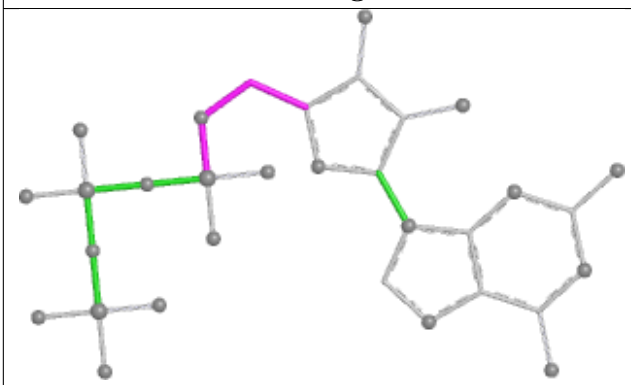

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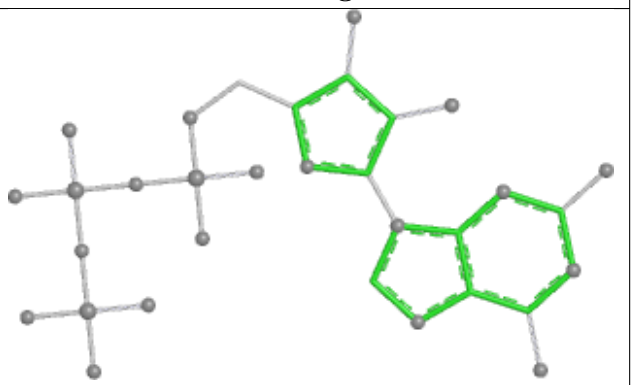
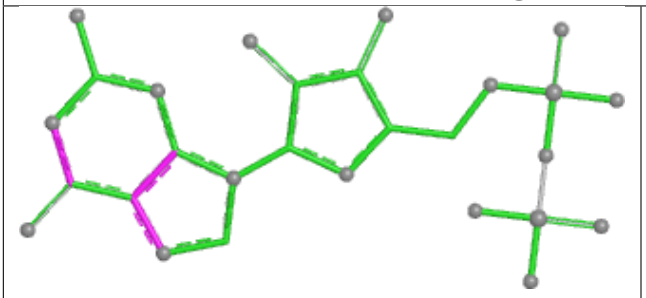


Rings

Ligand GDP SH 501



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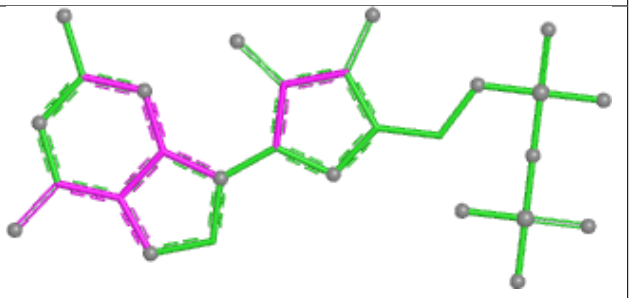

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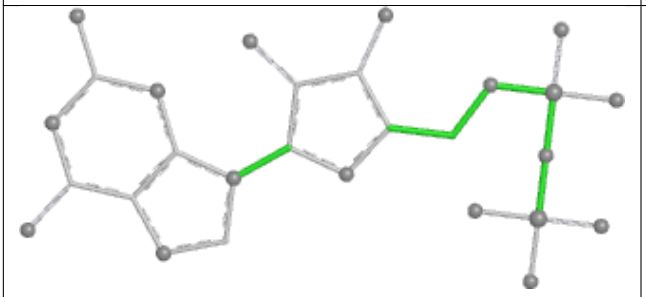

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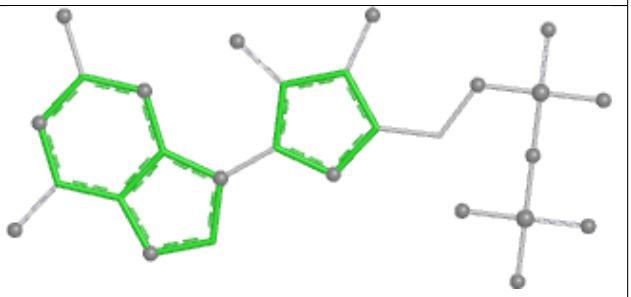
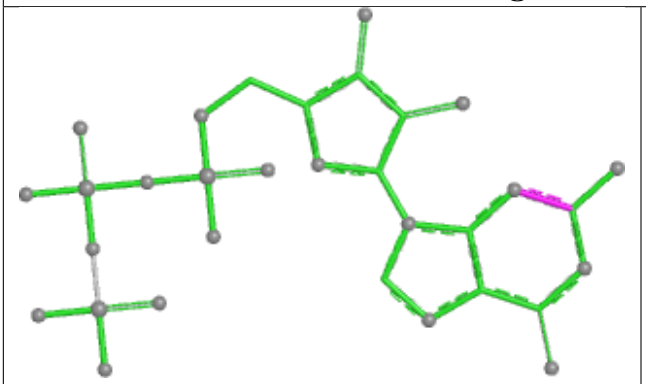


Rings

Ligand GTP RA 501



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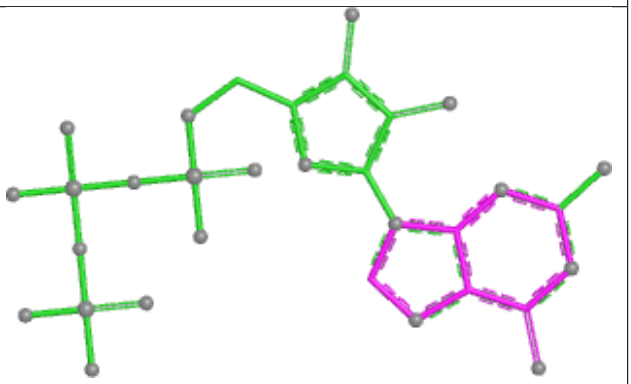

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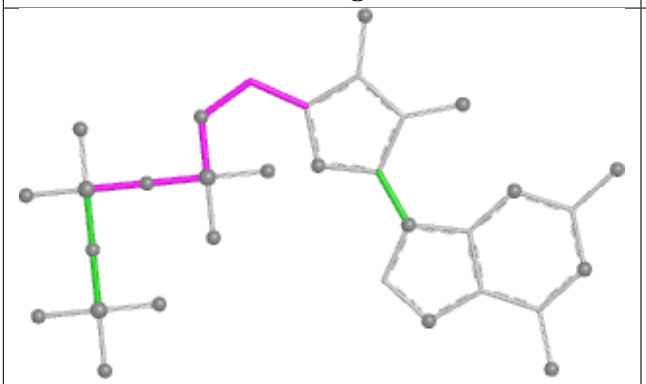

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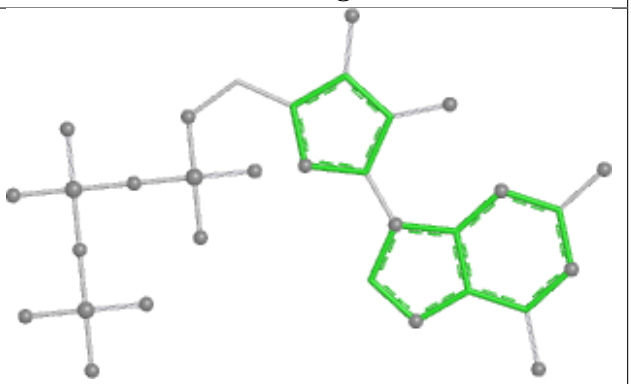
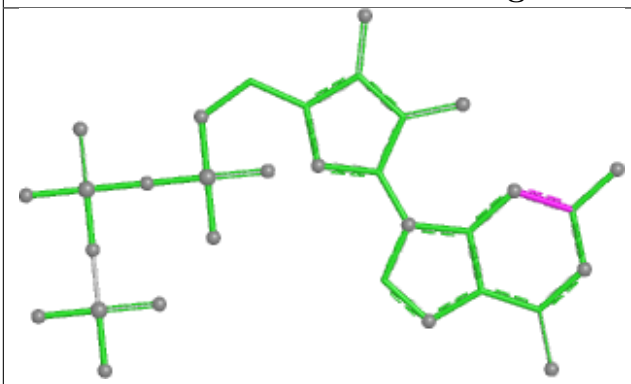


Rings

Ligand GTP KK 501



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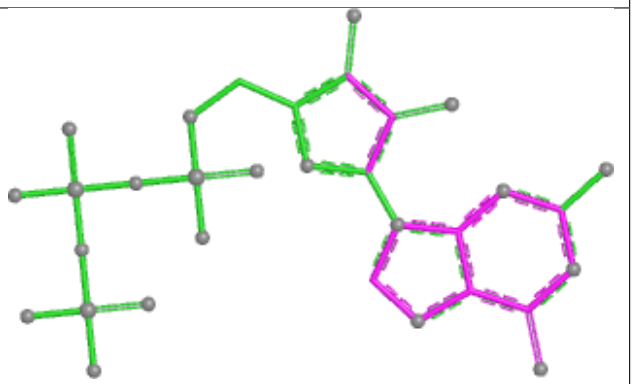

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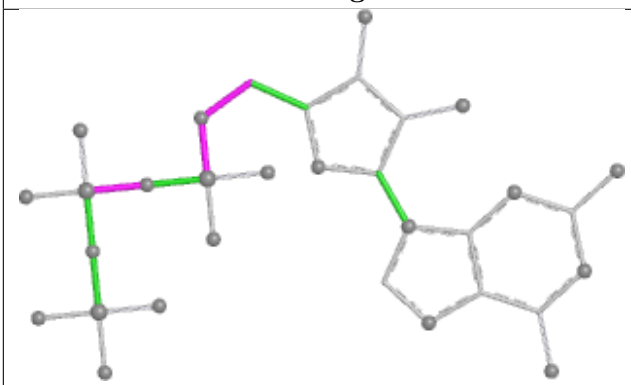

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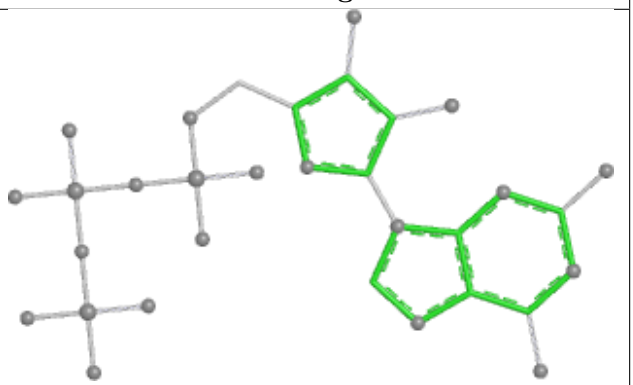
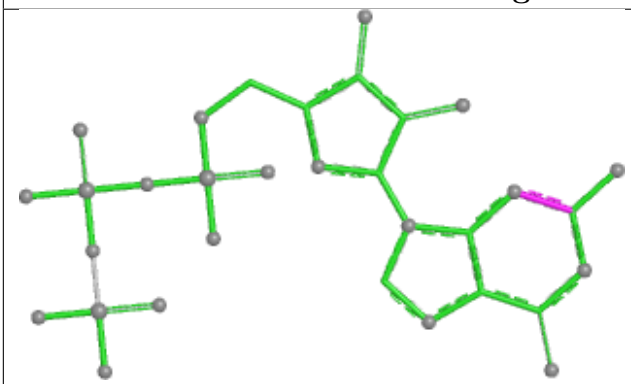


Rings

Ligand GTP SC 501



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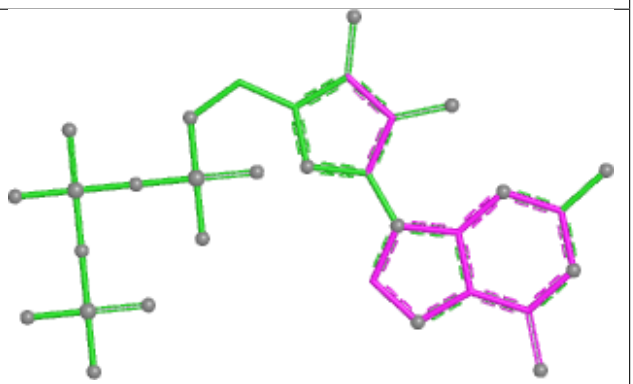

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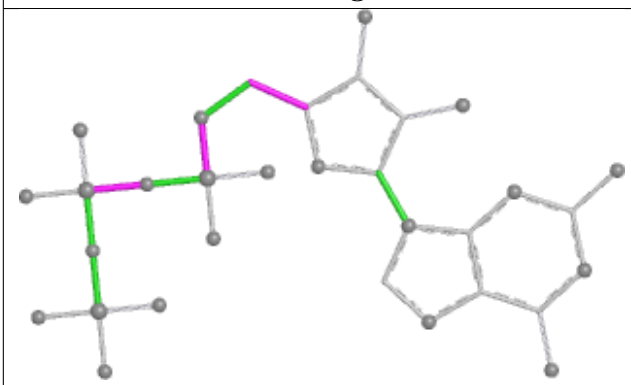

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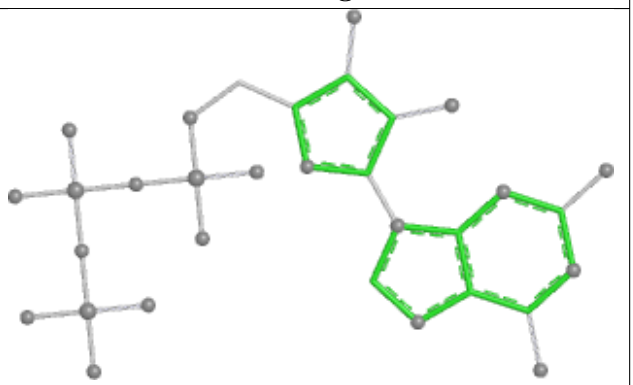
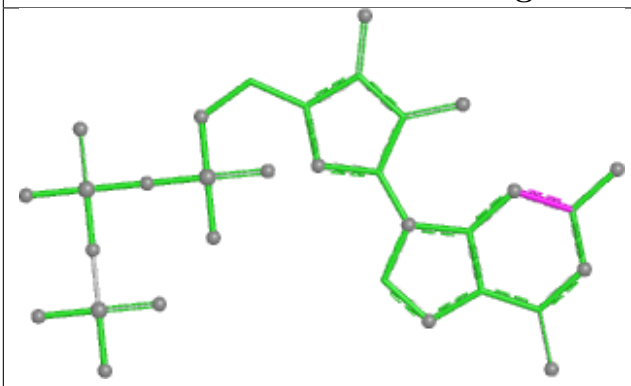


Rings

Ligand GTP UI 501



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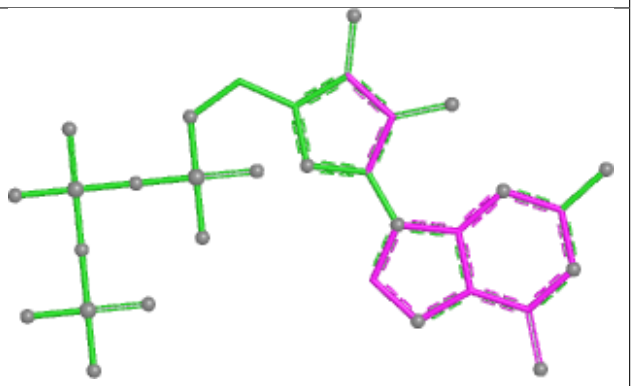

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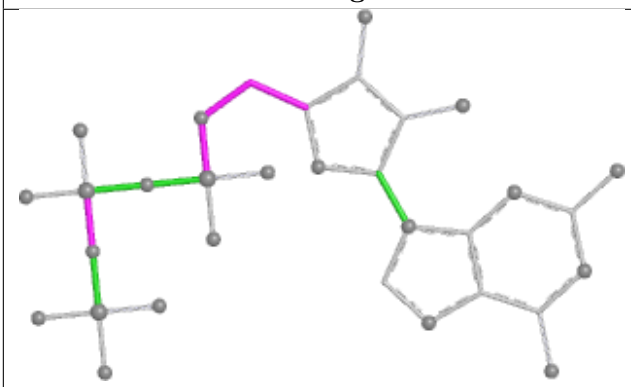

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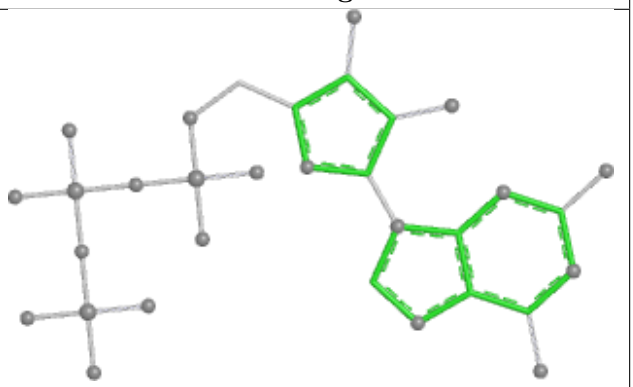
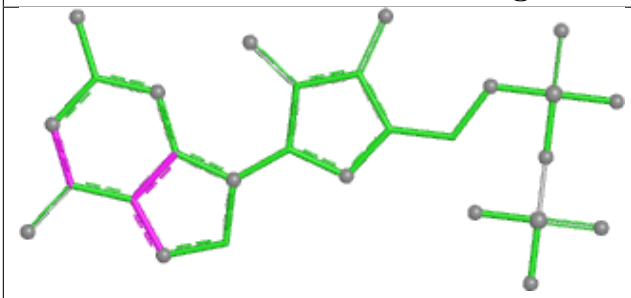


Rings

Ligand GDP EL 501



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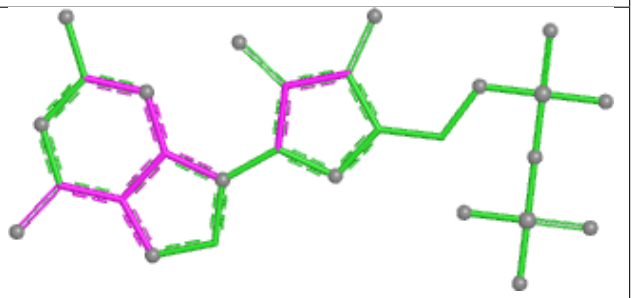
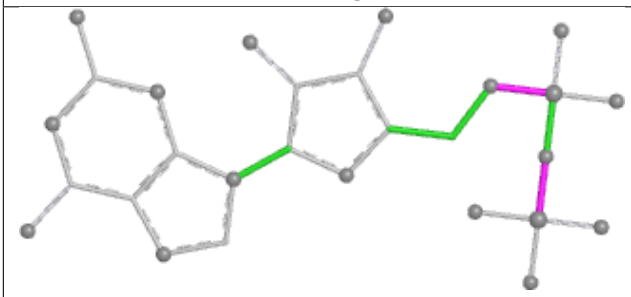


Bond angles



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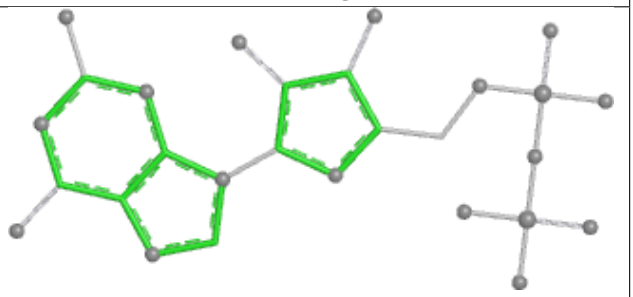
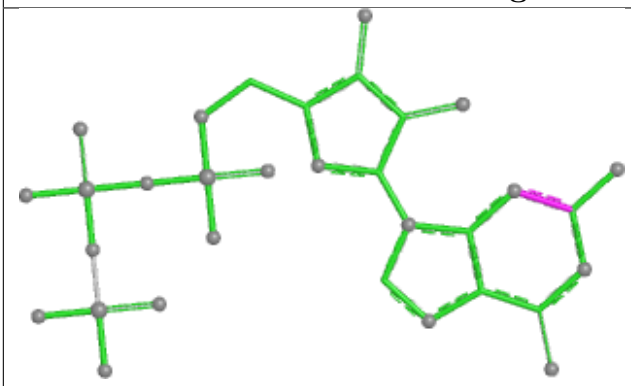


Rings

Ligand GTP GE 501



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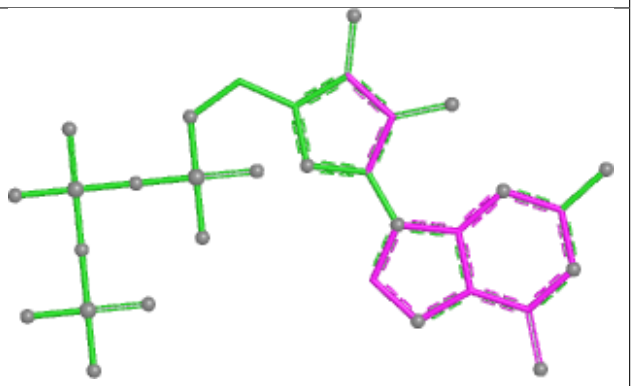

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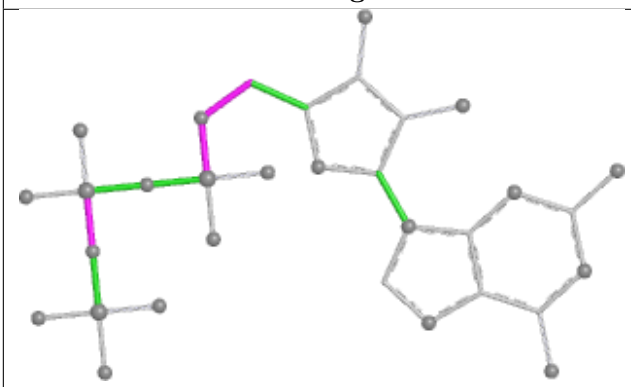
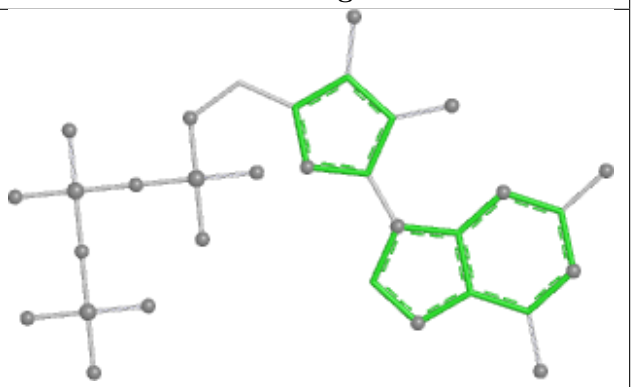
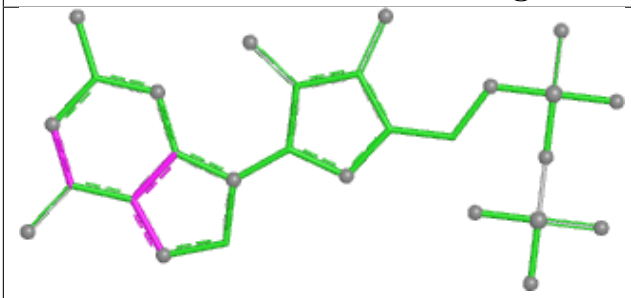


Torsions



Rings

Ligand GDP CJ 501



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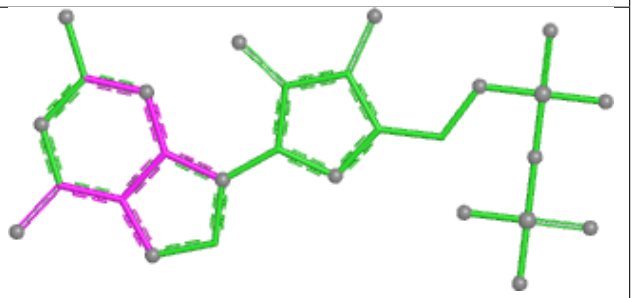

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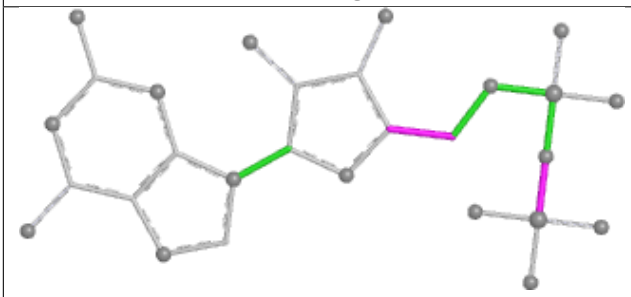

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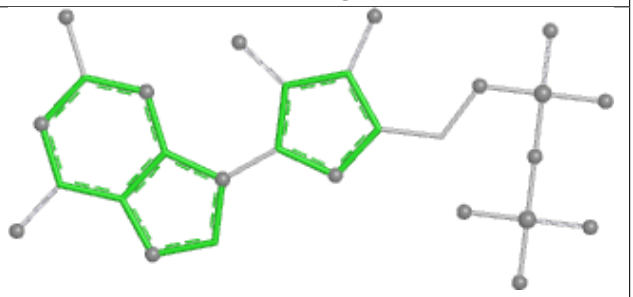
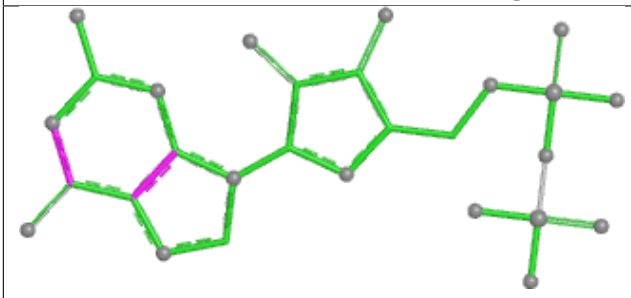
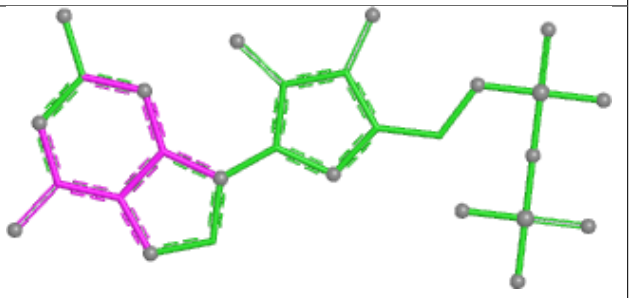
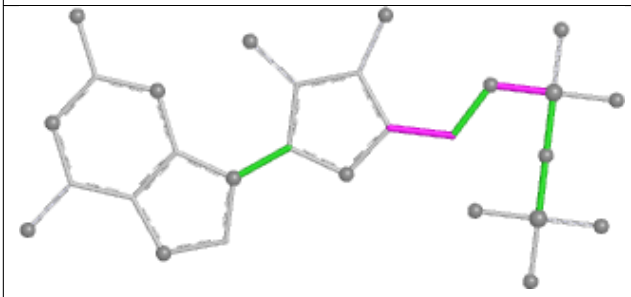
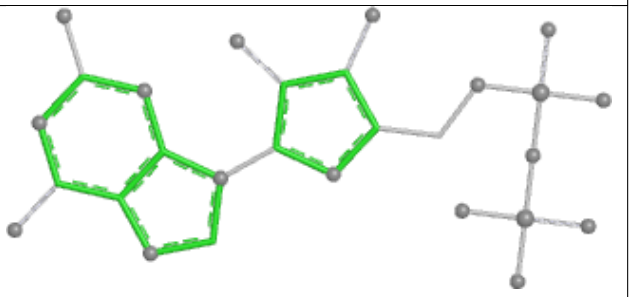
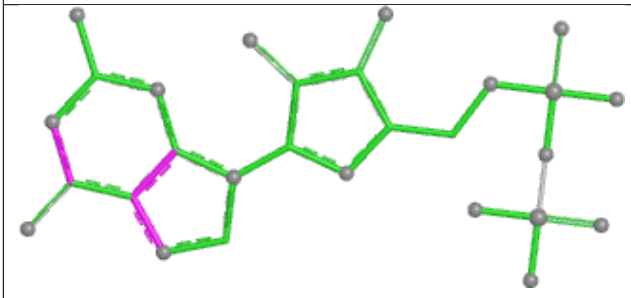
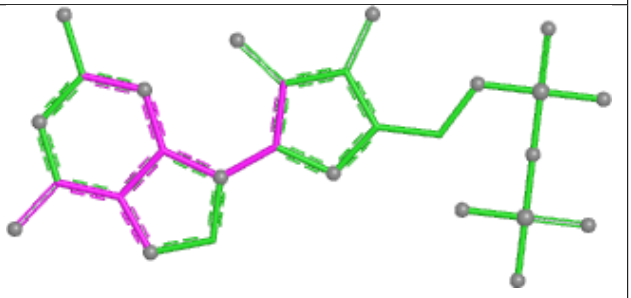
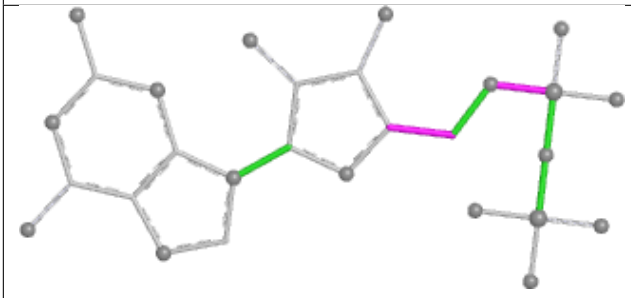
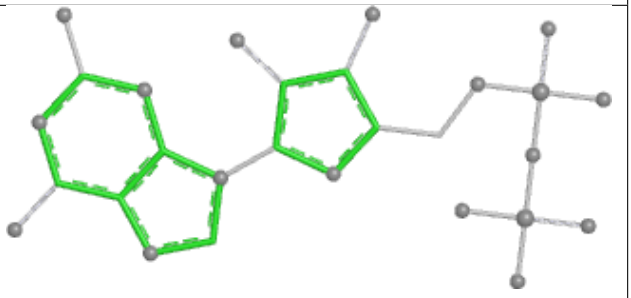
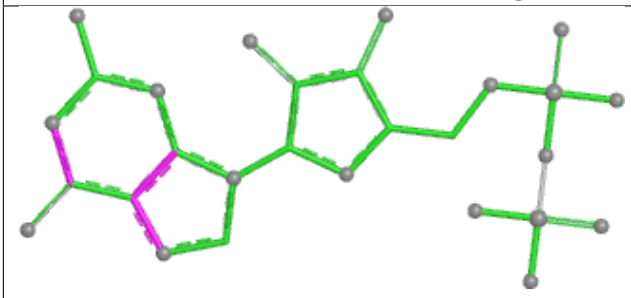


Rings

Ligand GDP DB 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP DH 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP EB 501



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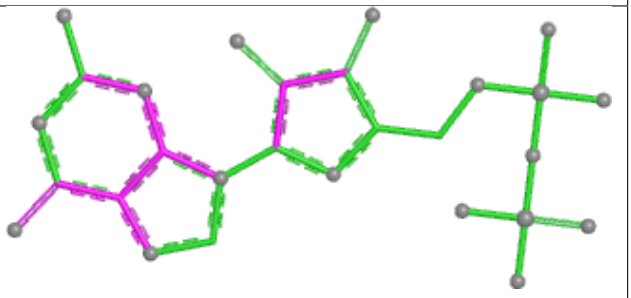

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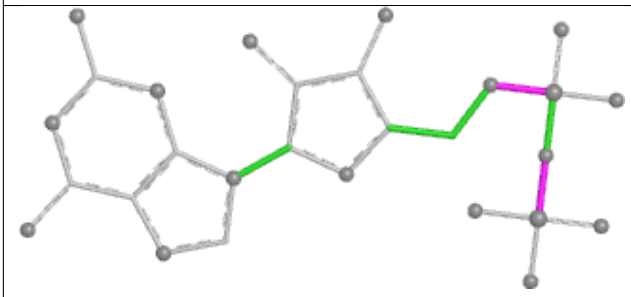

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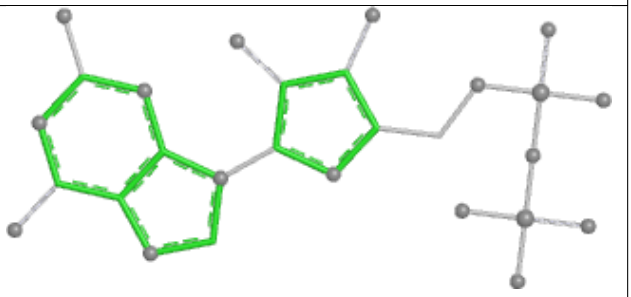
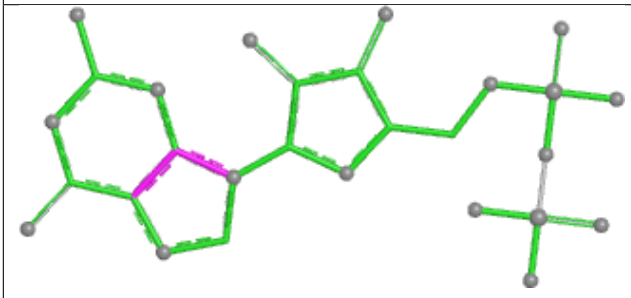


Rings

Ligand GDP LB 501



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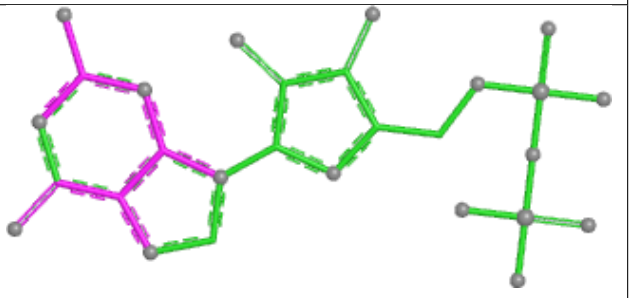

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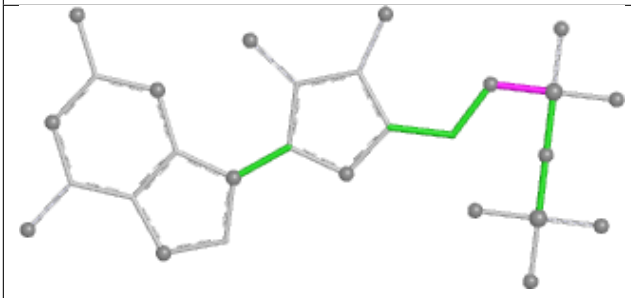

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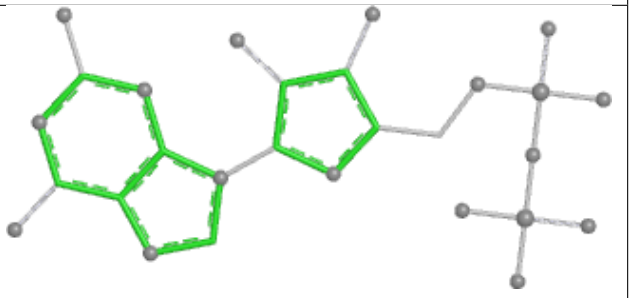
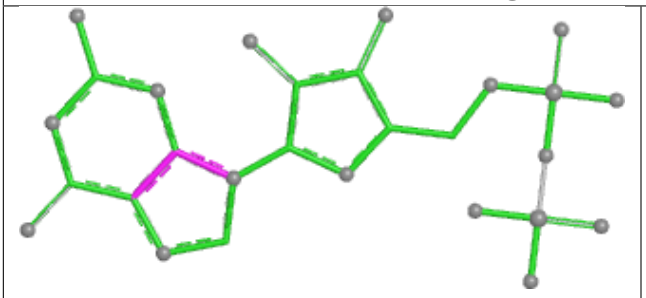


Rings

Ligand GDP MD 501



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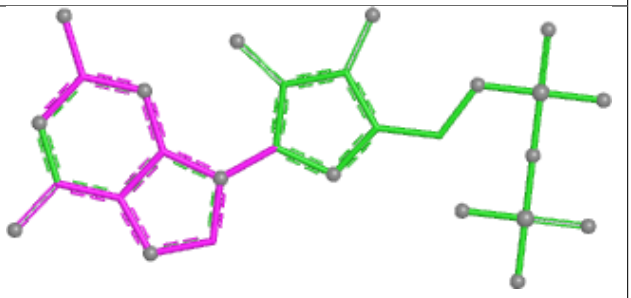

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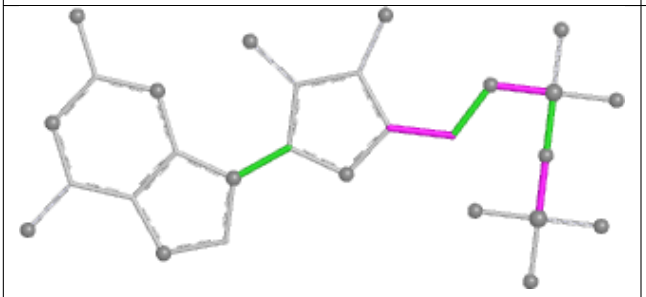

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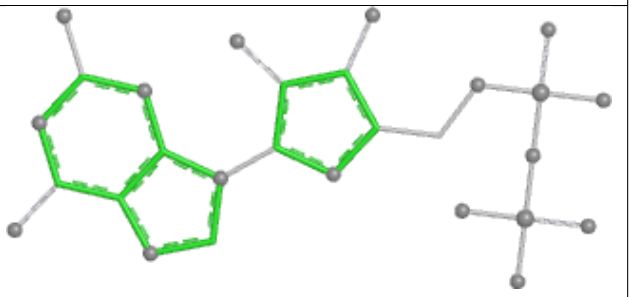
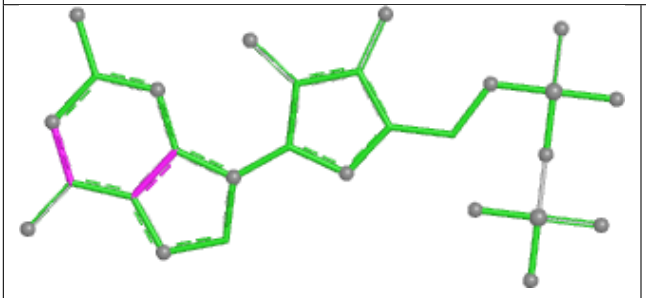


Rings

Ligand GDP OD 501



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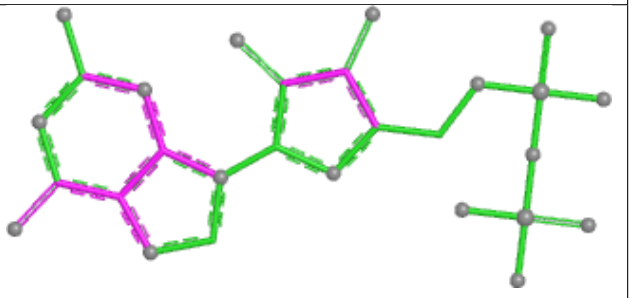

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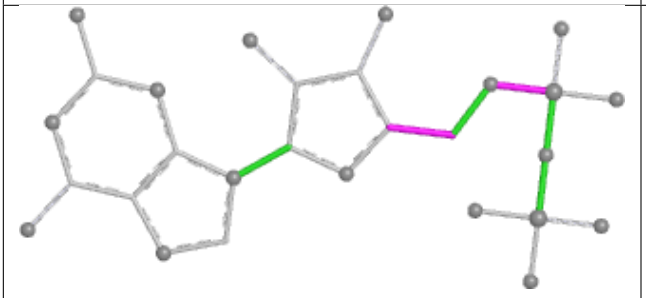

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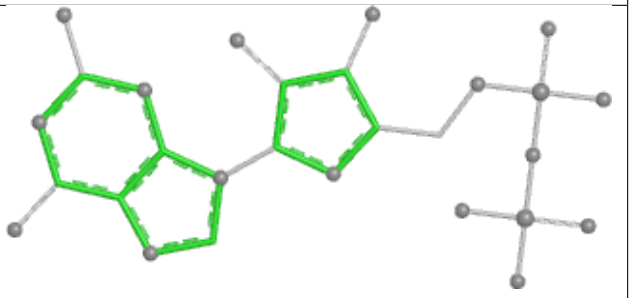
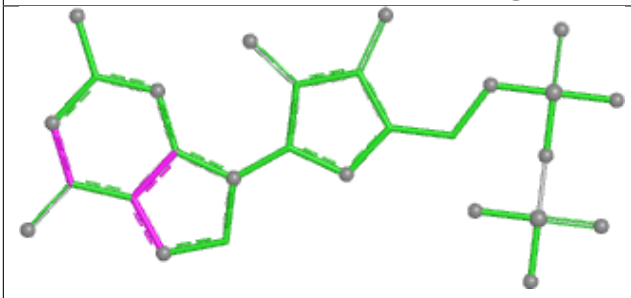
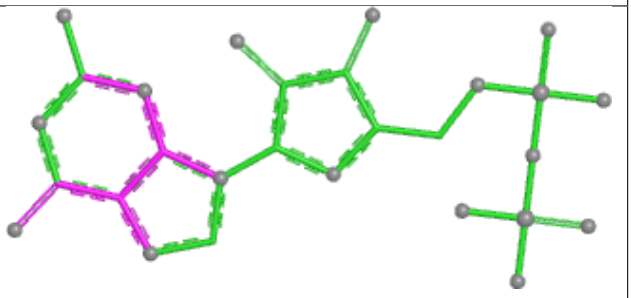
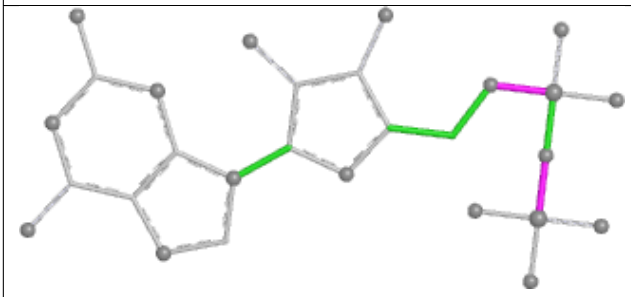
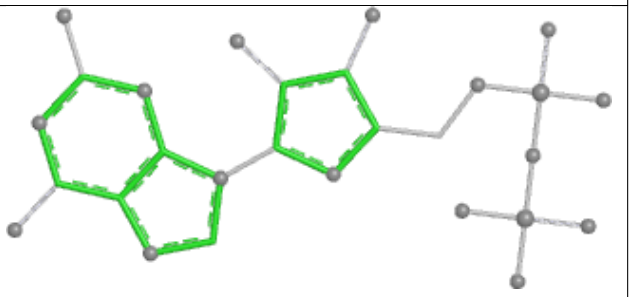
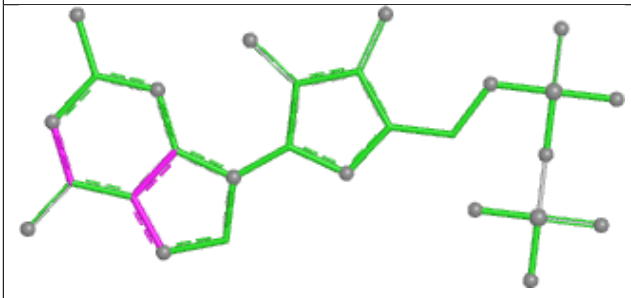
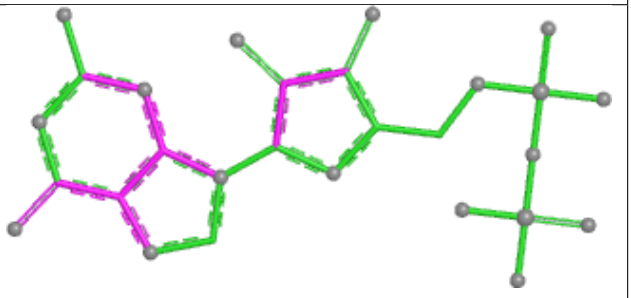
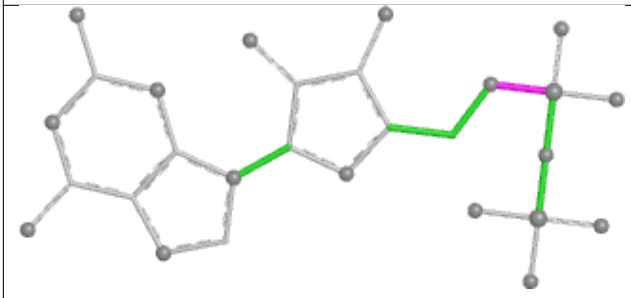
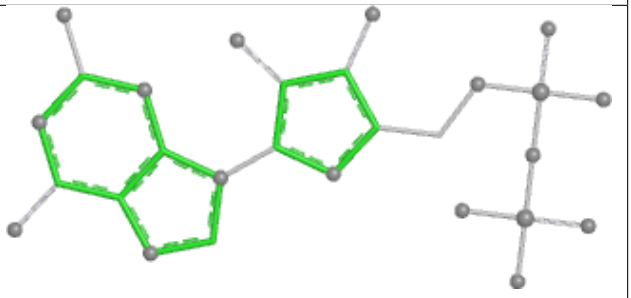
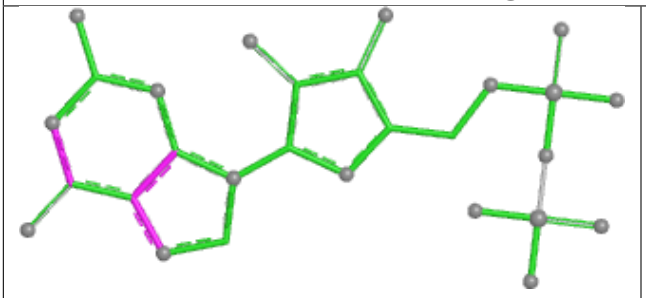


Rings

Ligand GDP RD 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP IN 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP WN 501



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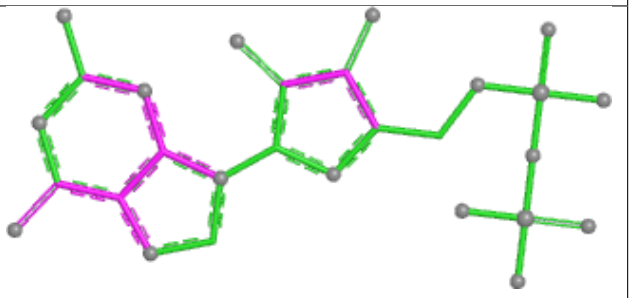

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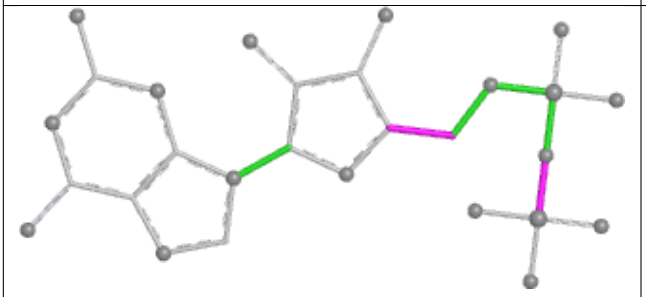

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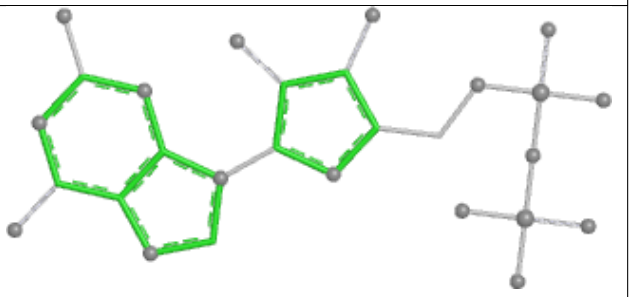
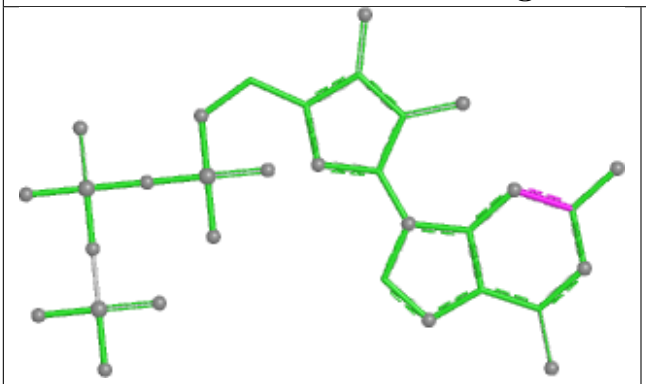


Rings

Ligand GTP BI 501



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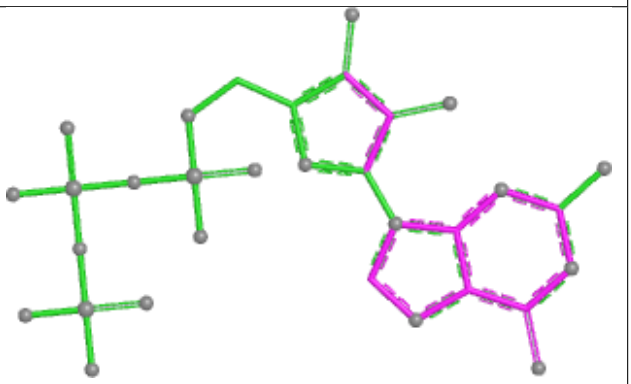

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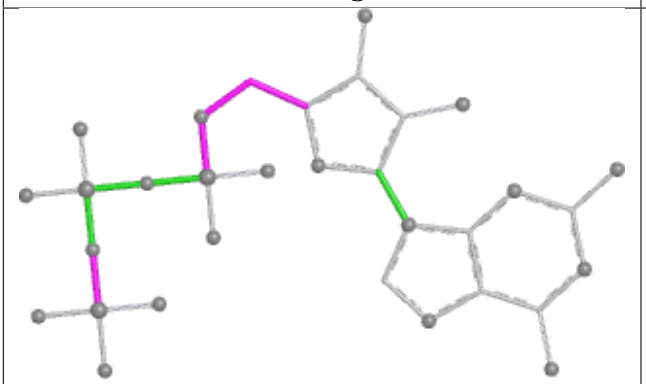

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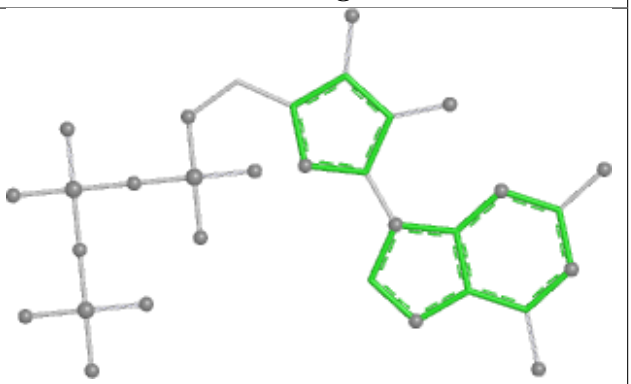
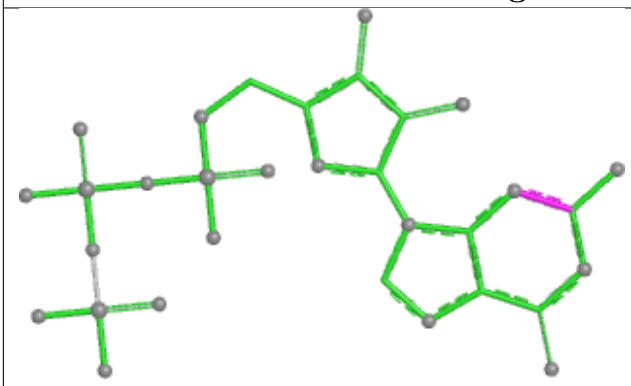


Rings

Ligand GTP CH 502



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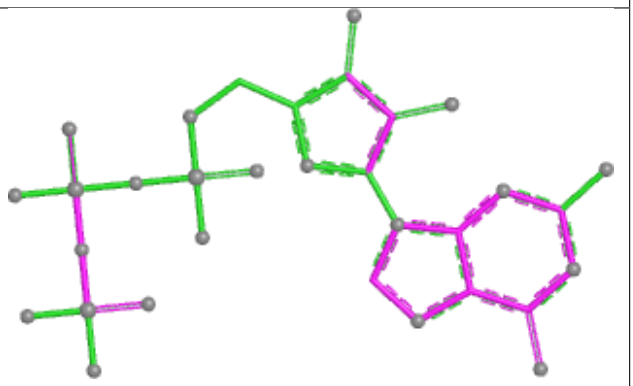

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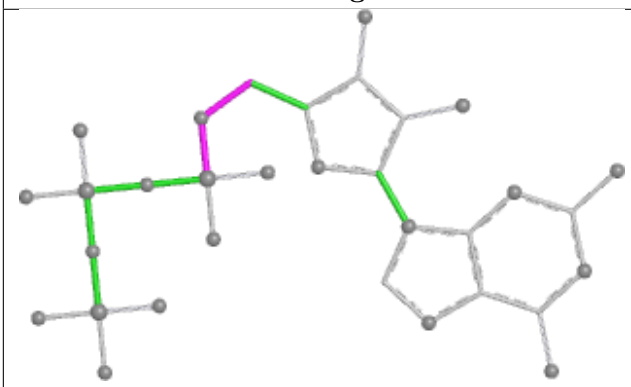

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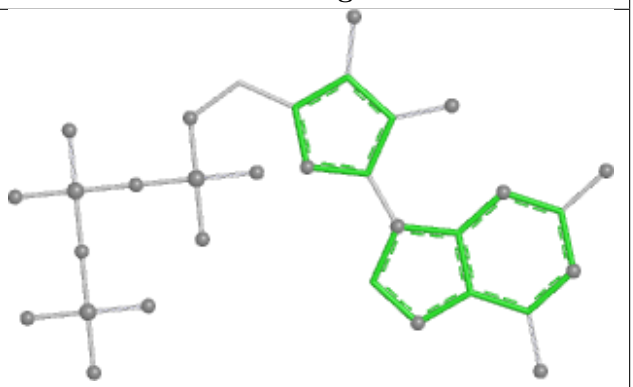
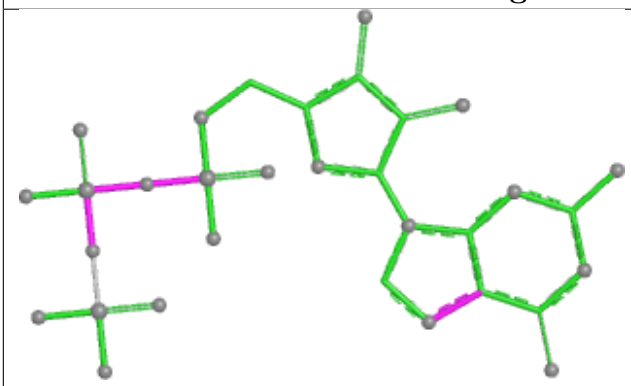


Rings

Ligand GTP PD 502



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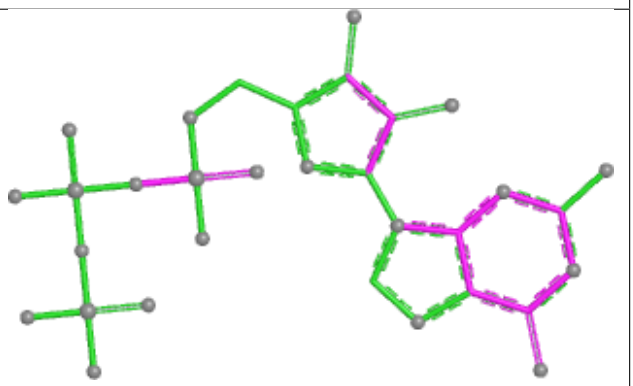

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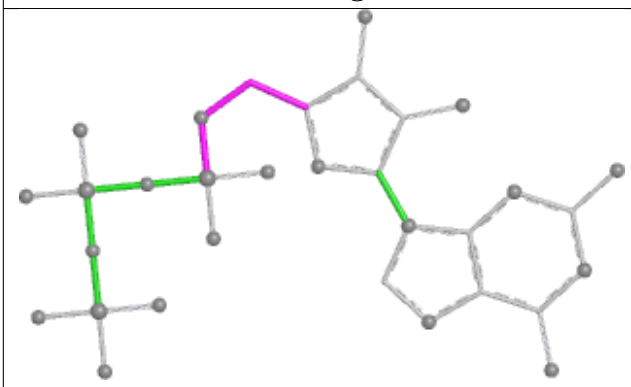

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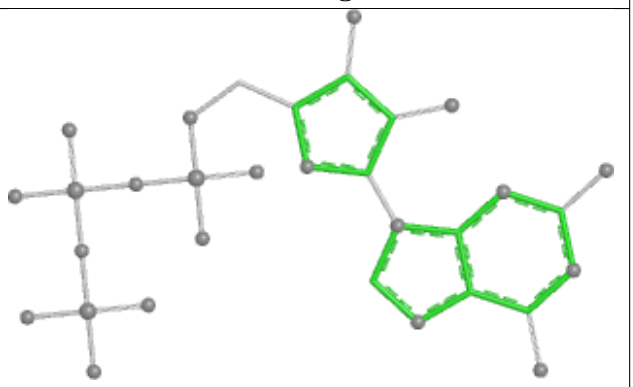
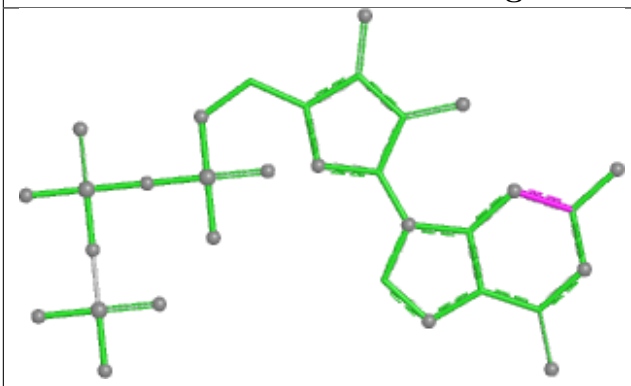
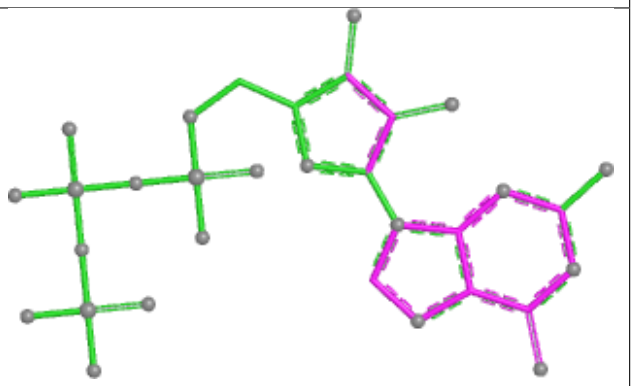


Rings

Ligand GTP RM 501



Bond lengths



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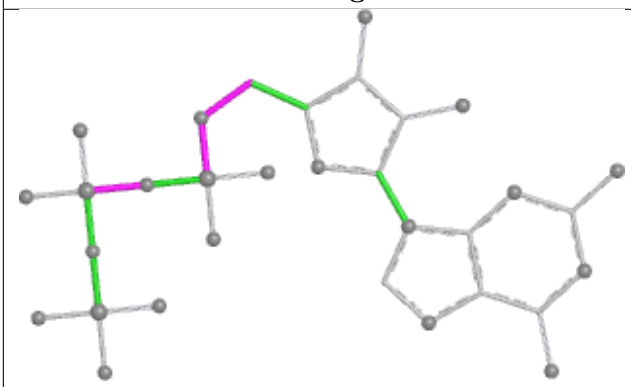
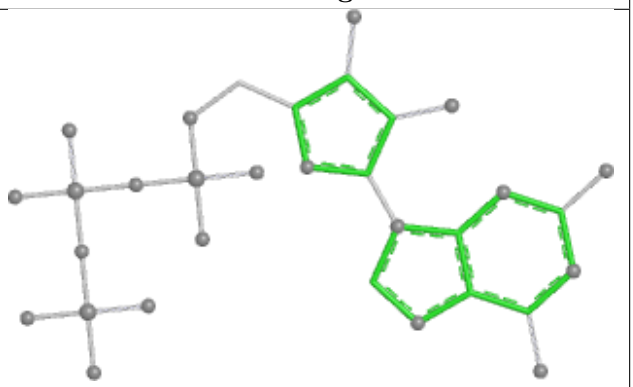
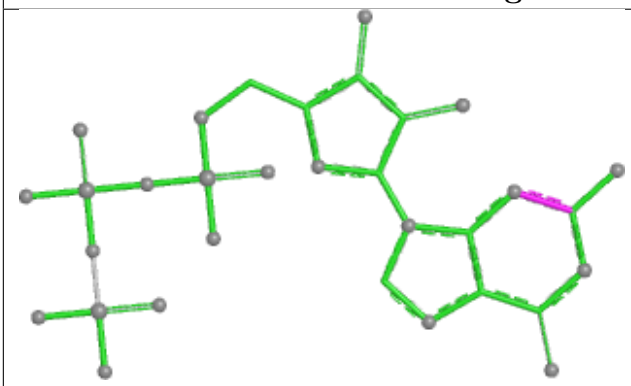


Torsions



Rings

Ligand GTP WC 501



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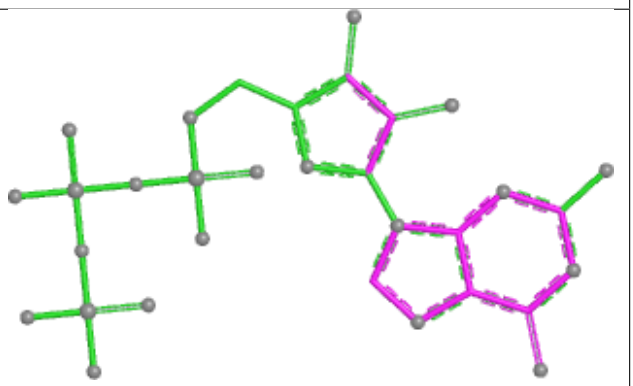

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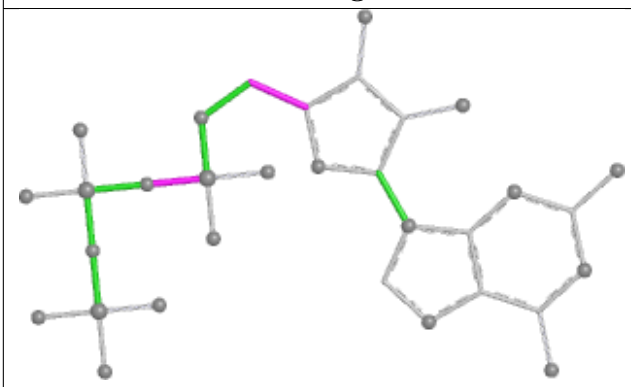

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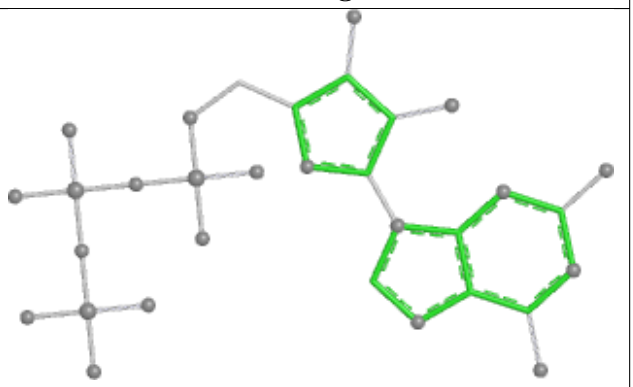
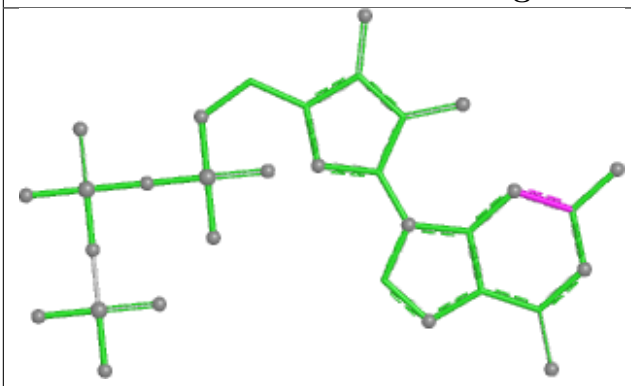


Rings

Ligand GTP JC 501



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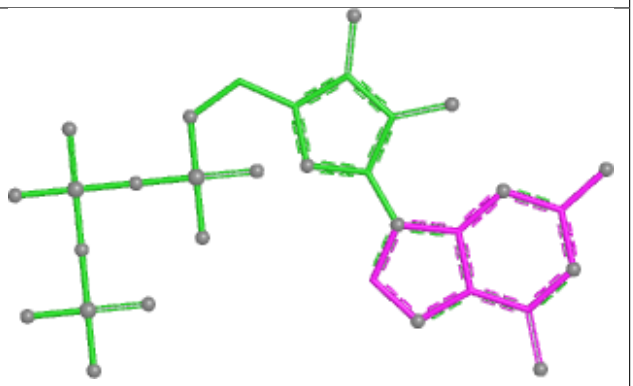

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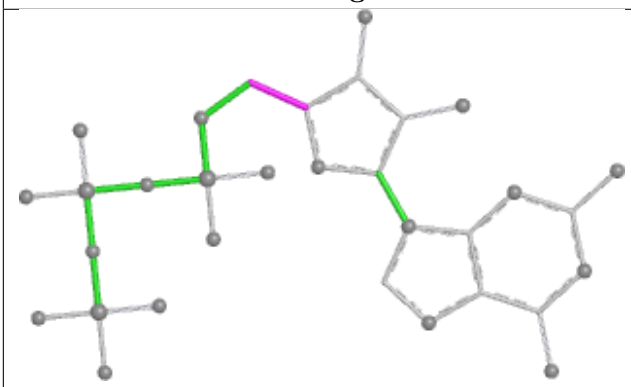

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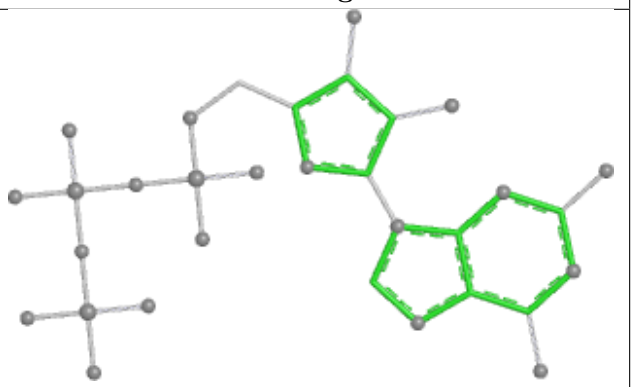
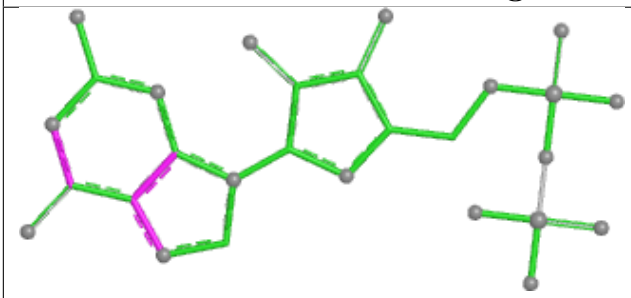


Rings

Ligand GDP GD 501



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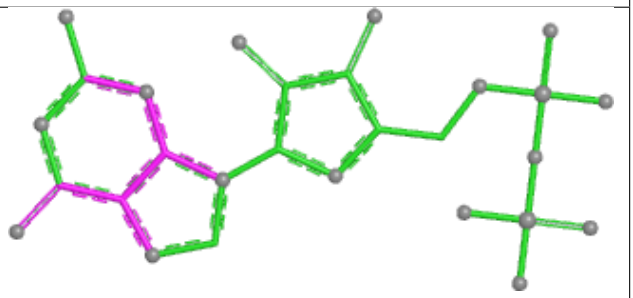

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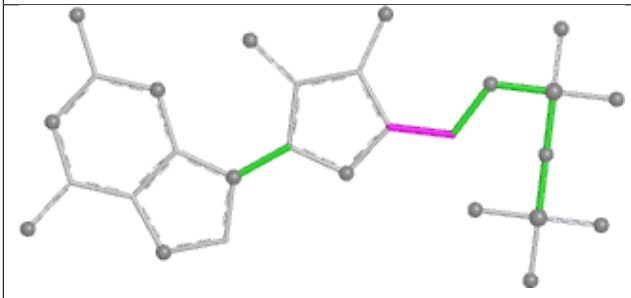

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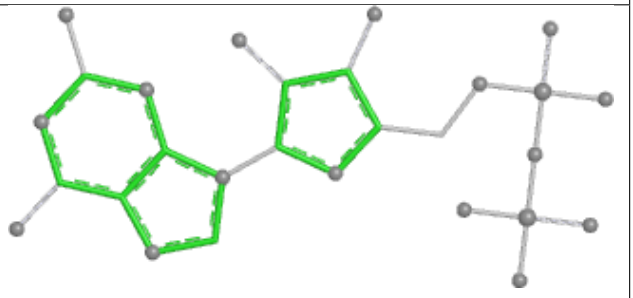
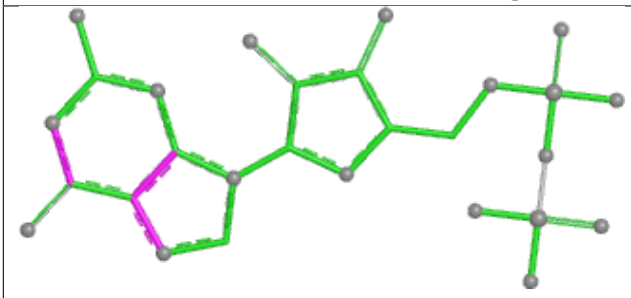
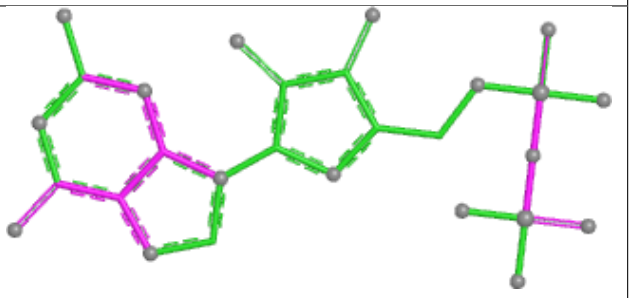
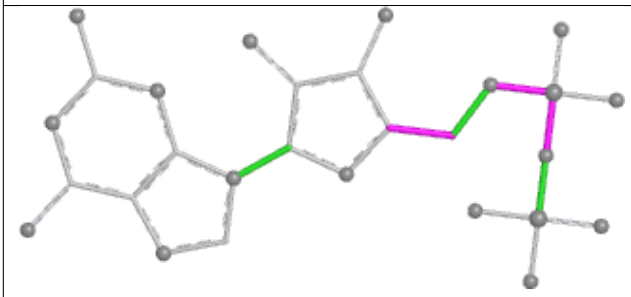
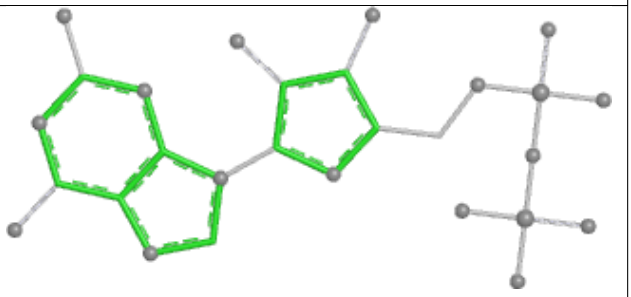


Rings

Ligand GDP KN 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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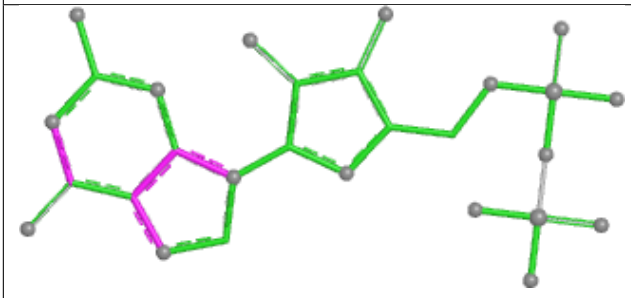
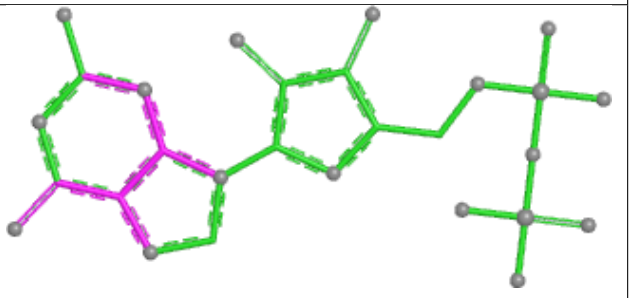
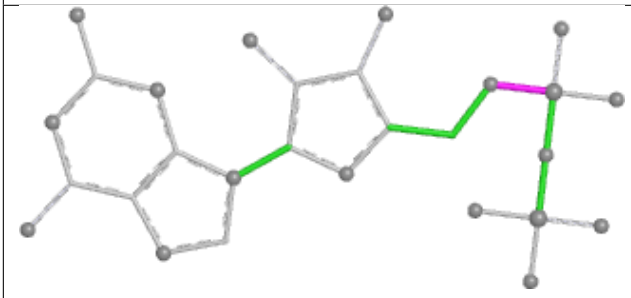
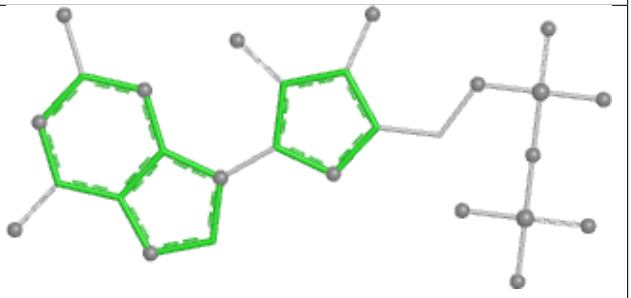
 Bond lengths	 Bond angles
 Torsions	 Rings

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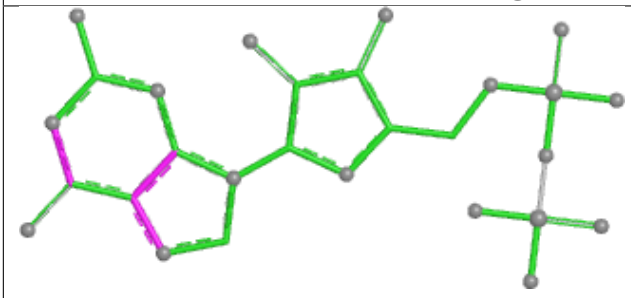
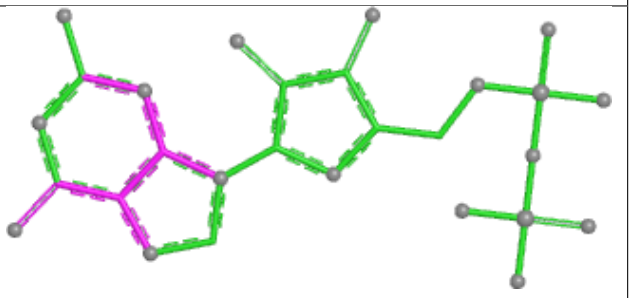
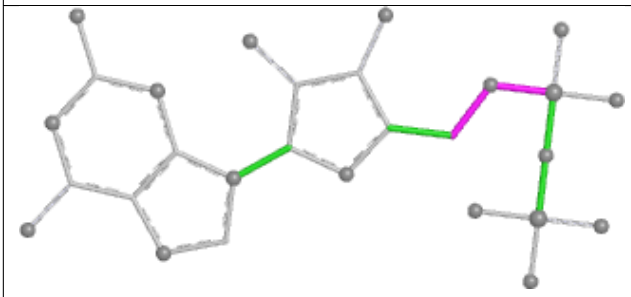
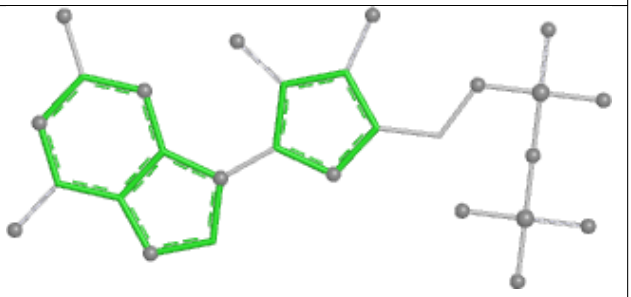
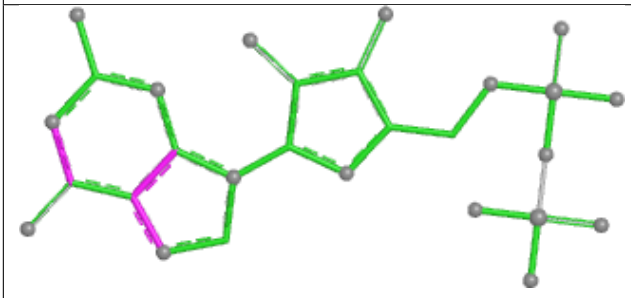
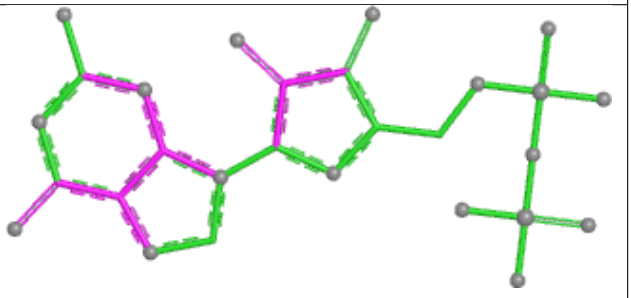
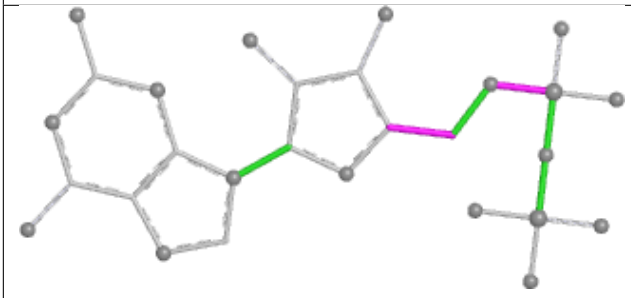
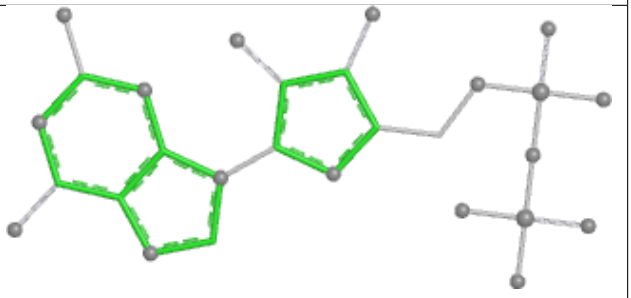
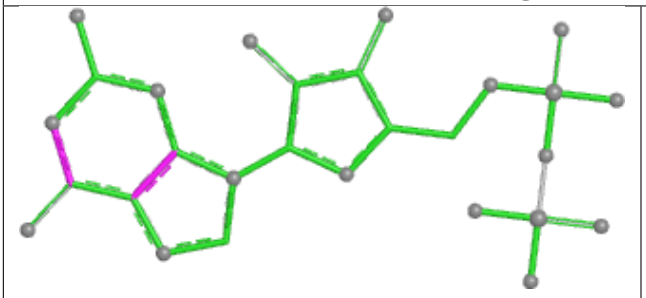
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP IB 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP IL 501



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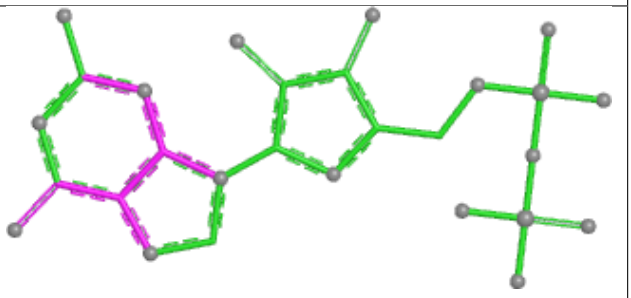

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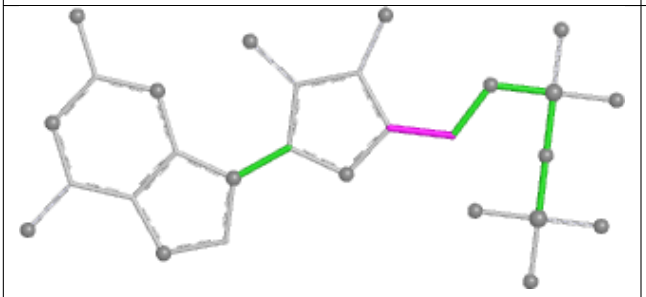

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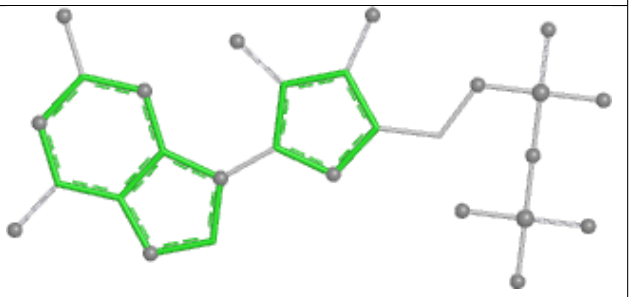
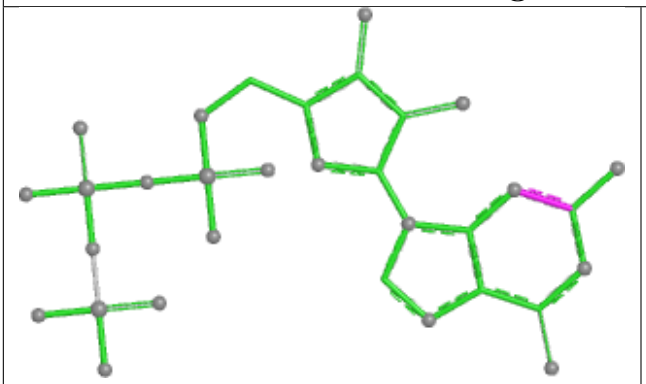


Rings

Ligand GTP TG 501



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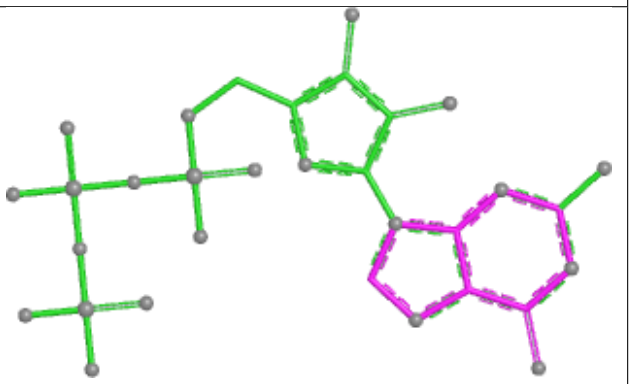

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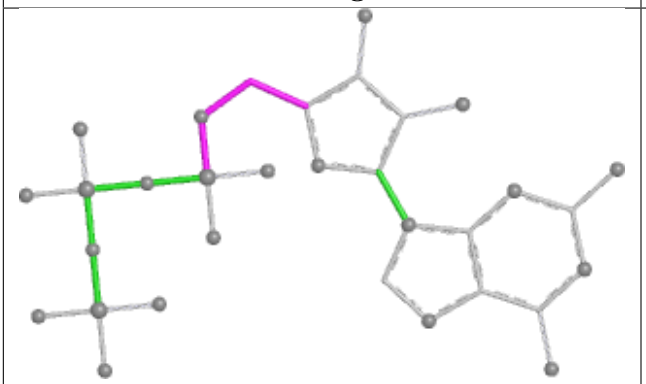

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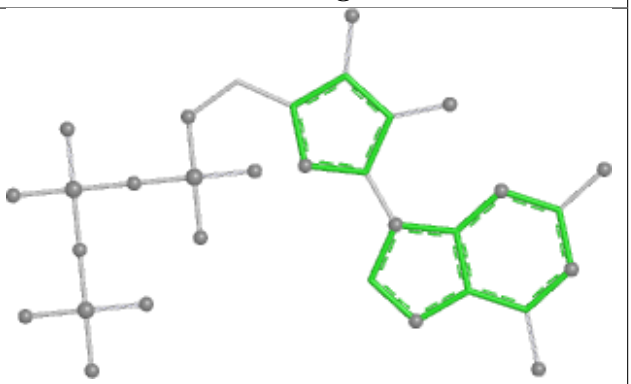
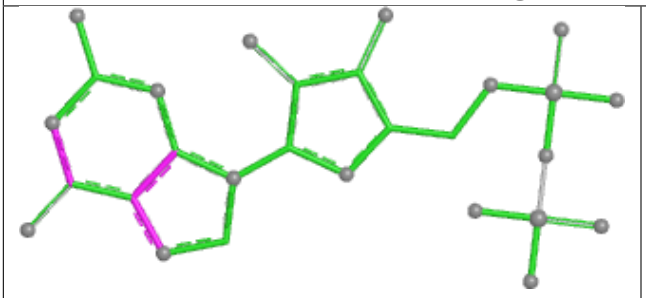


Rings

Ligand GDP DJ 501



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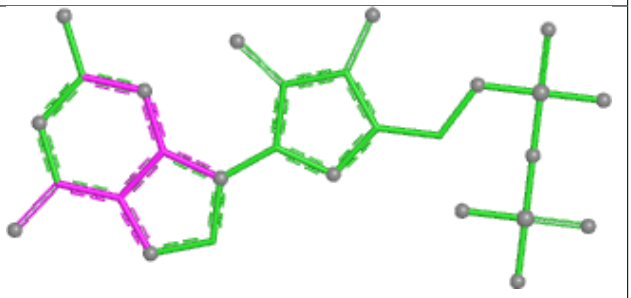

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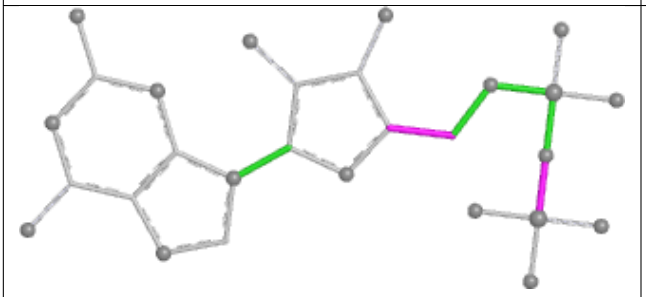

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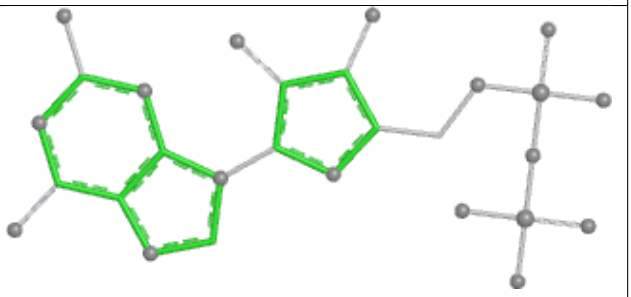
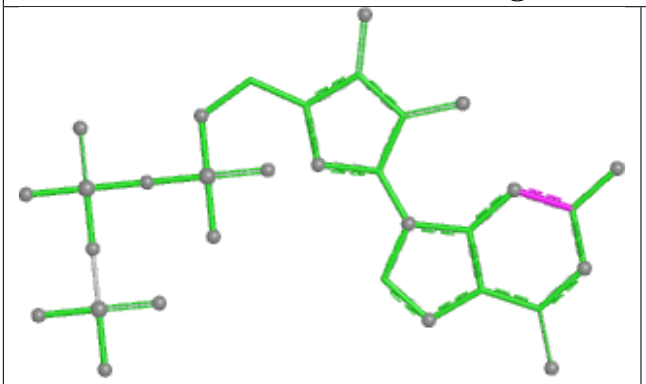


Rings

Ligand GTP CG 501



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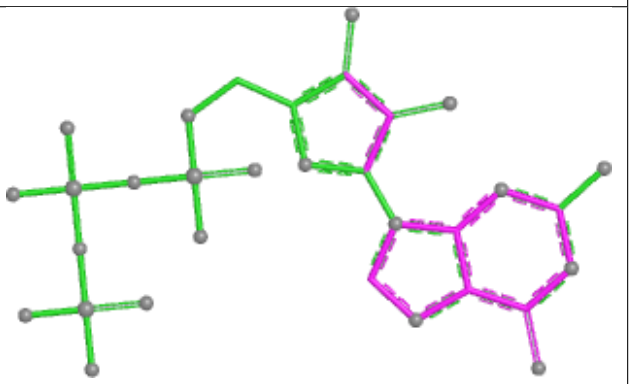

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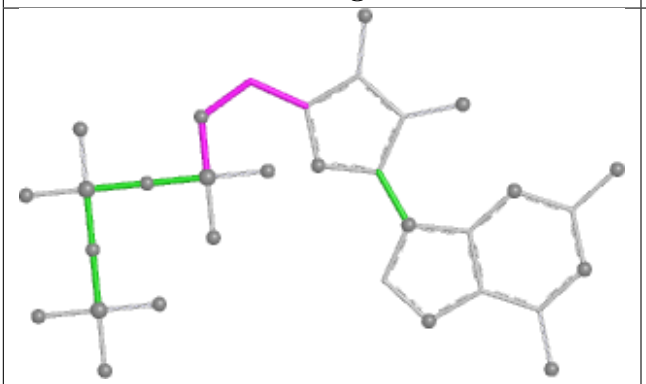

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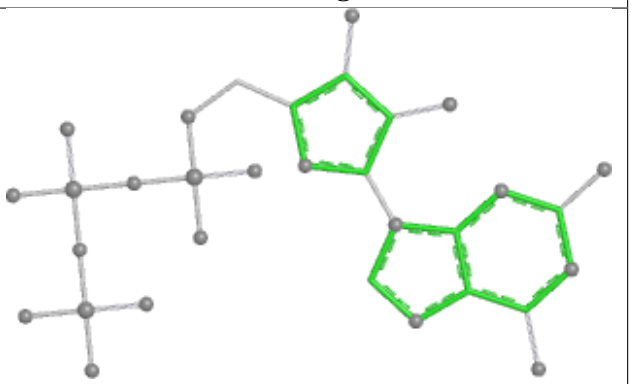
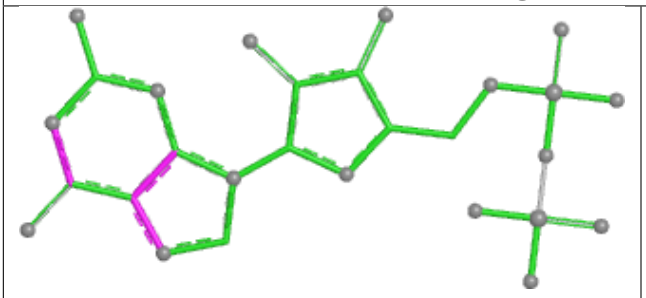


Rings

Ligand GDP IH 501



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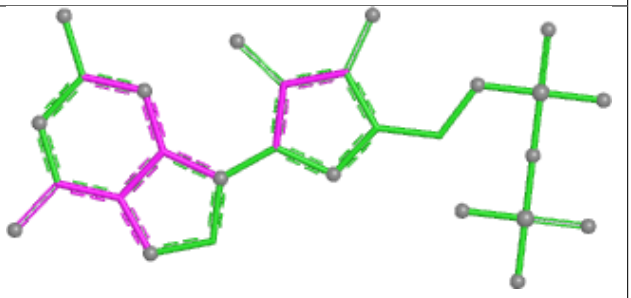

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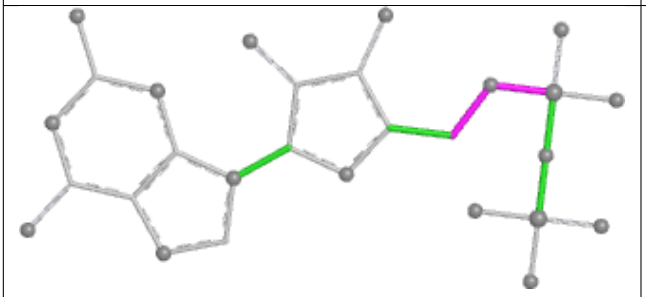
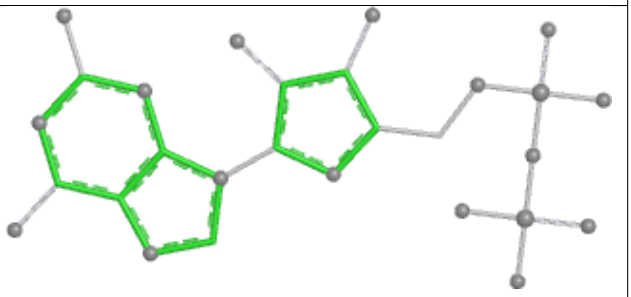
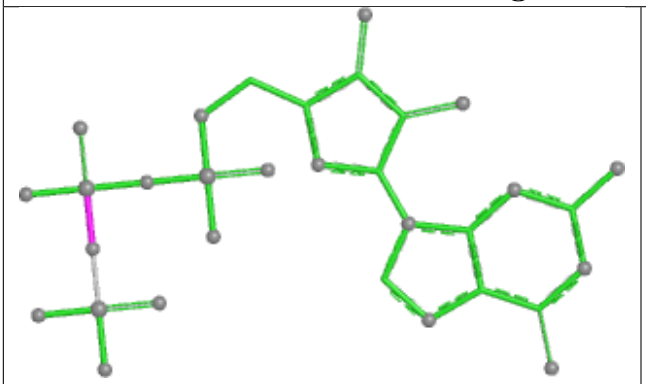


Torsions



Rings

Ligand GTP AC 501



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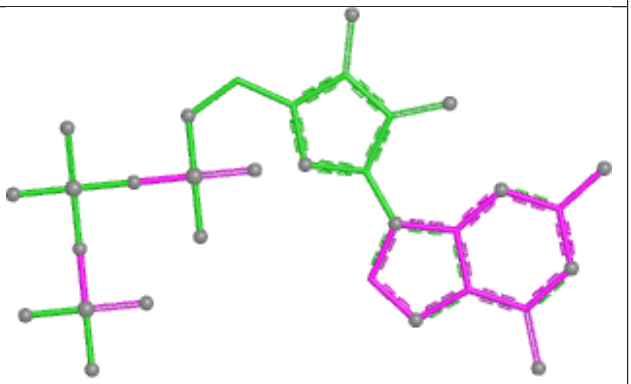

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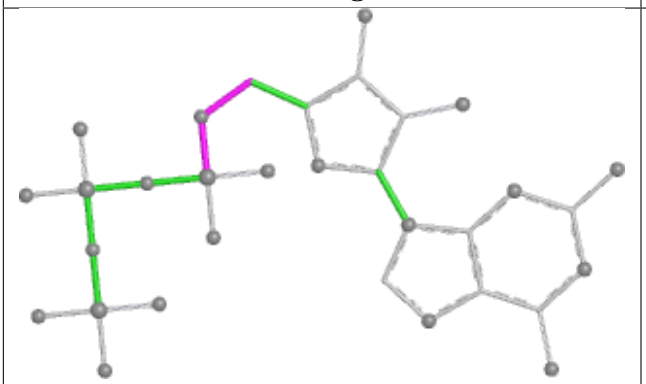
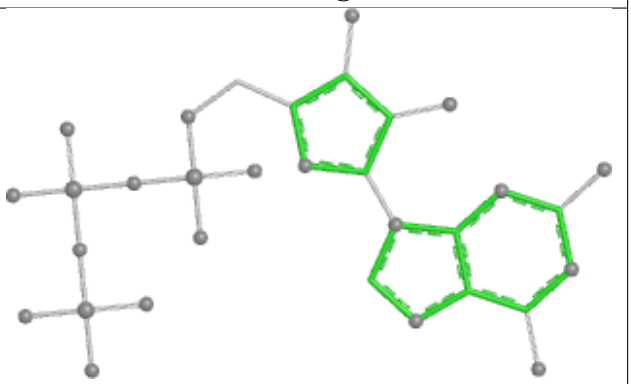
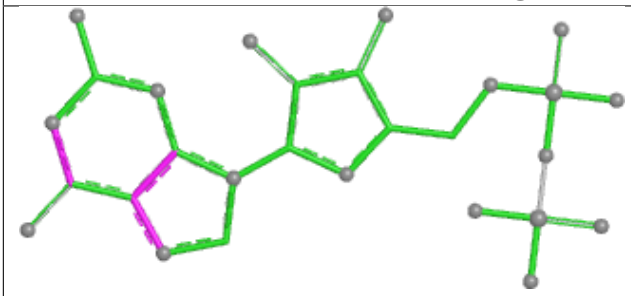


Torsions



Rings

Ligand GDP QJ 501



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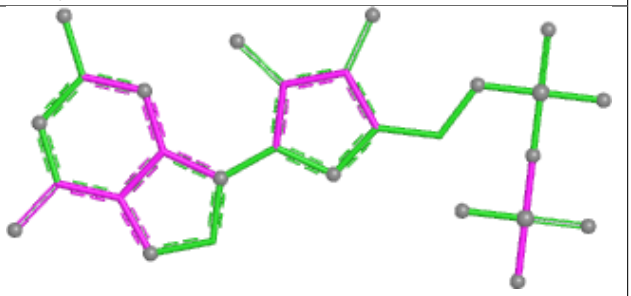

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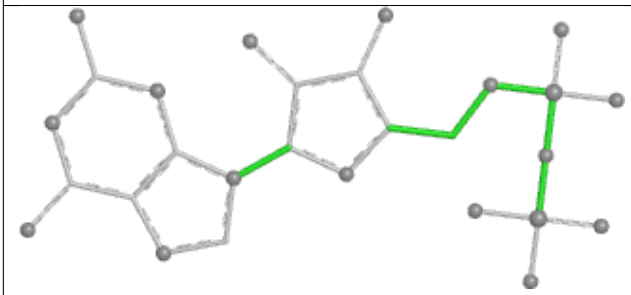

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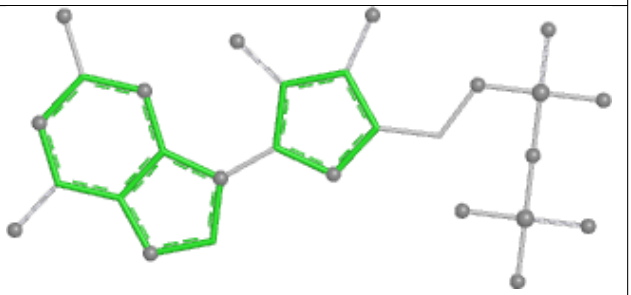
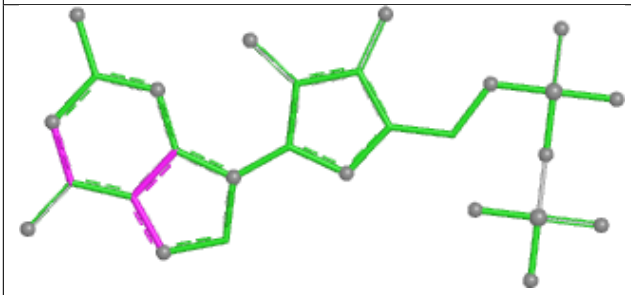


Rings

Ligand GDP UD 501



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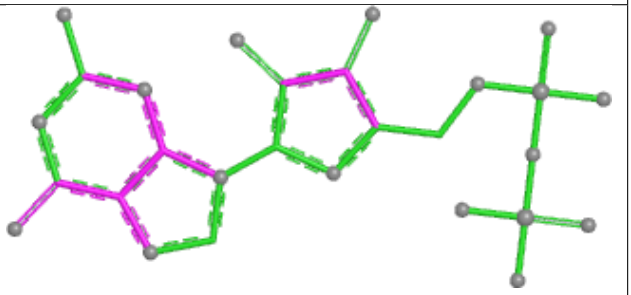

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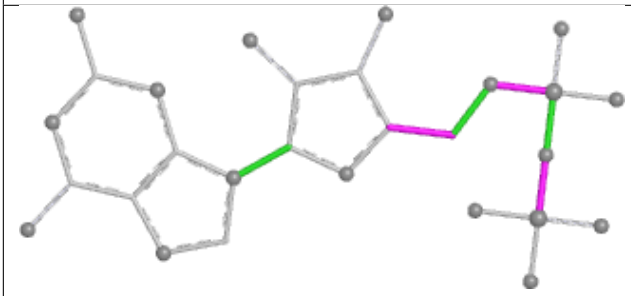

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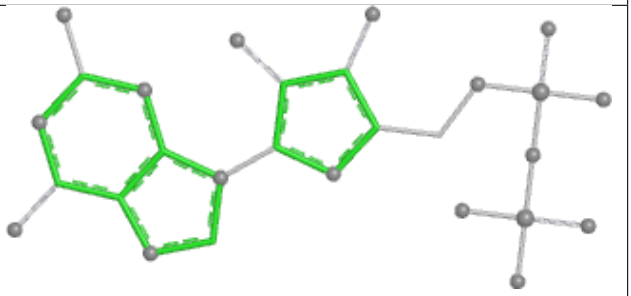
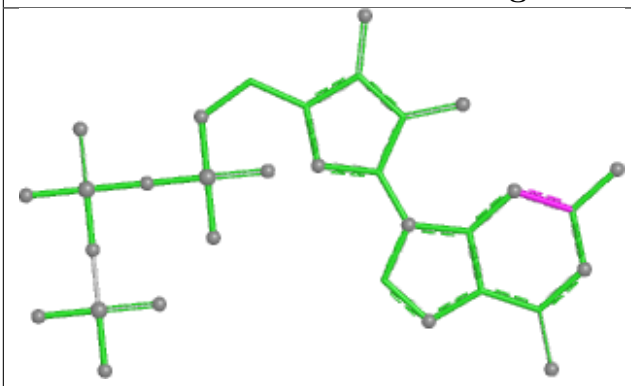


Rings

Ligand GTP PG 501



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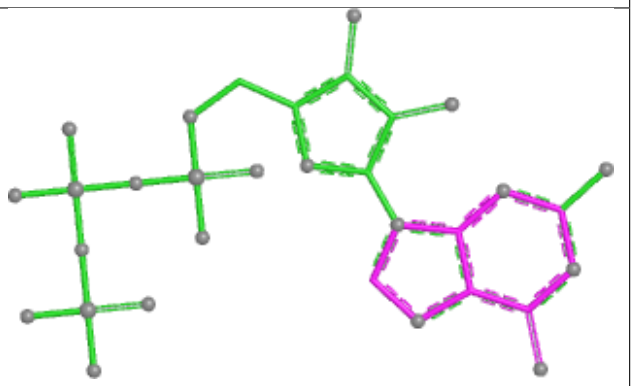

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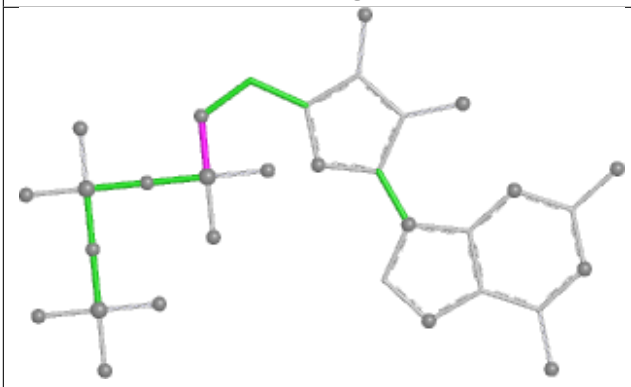

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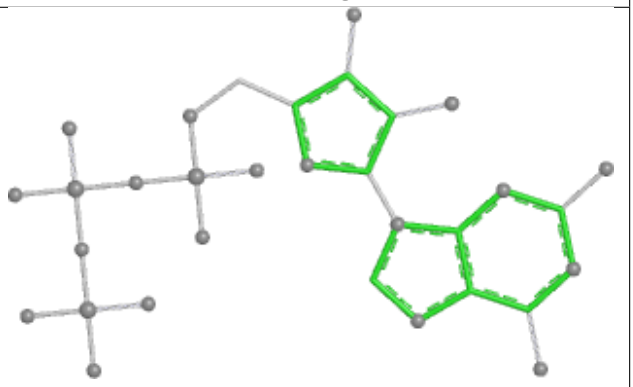
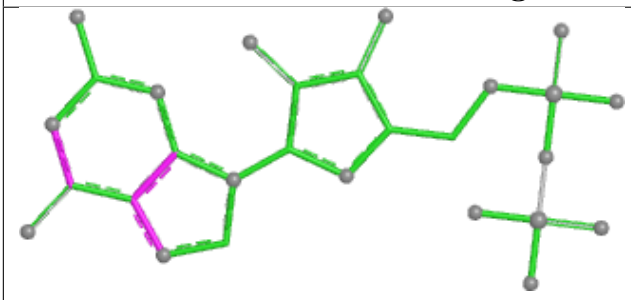


Rings

Ligand GDP KL 501



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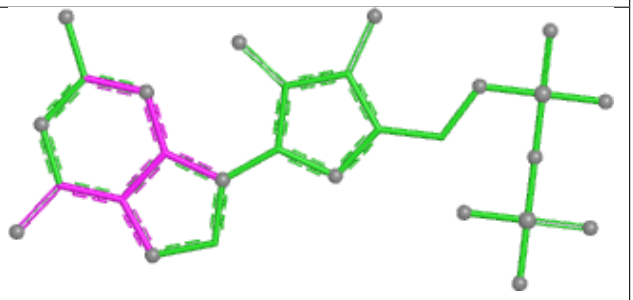

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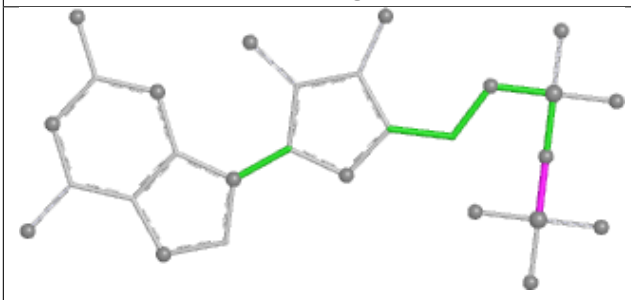

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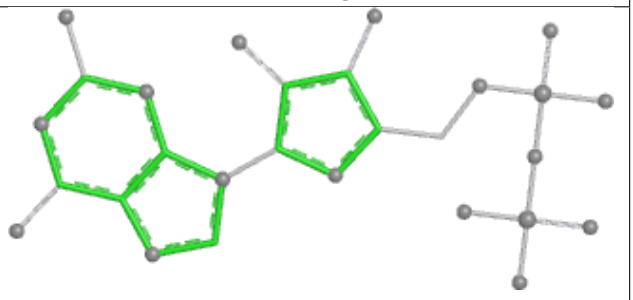

Rings

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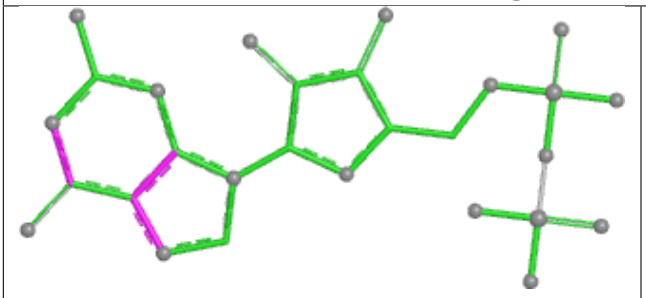

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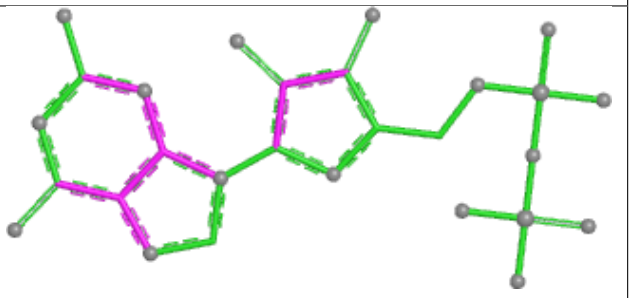

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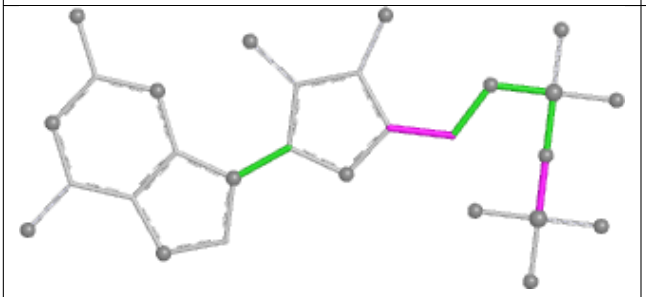

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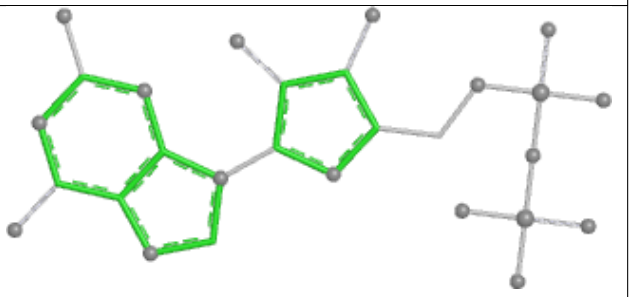

Rings

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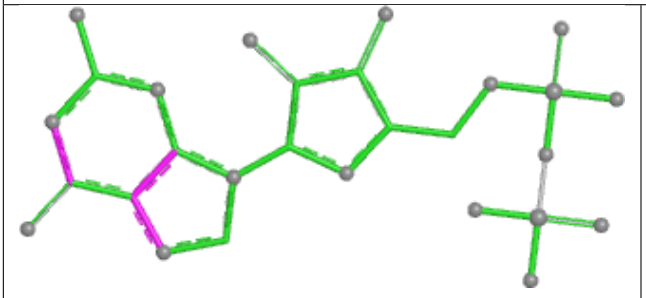

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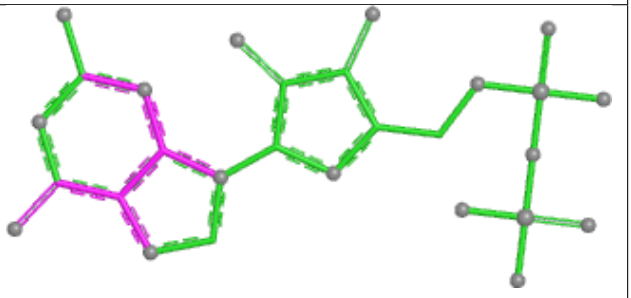

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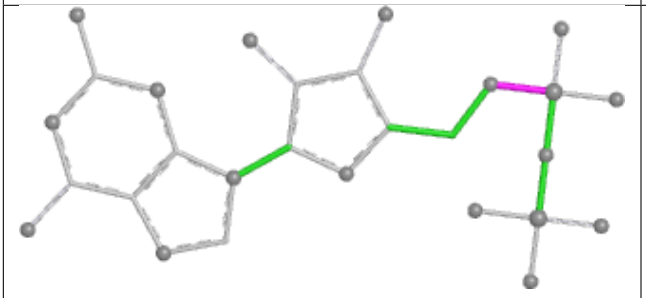

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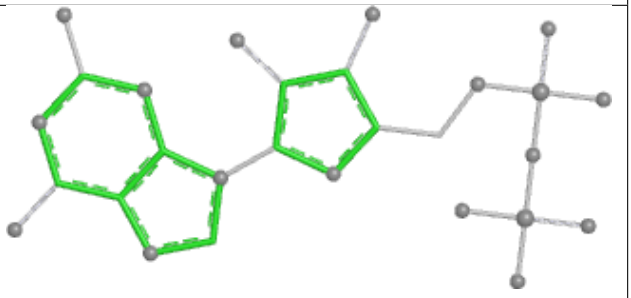
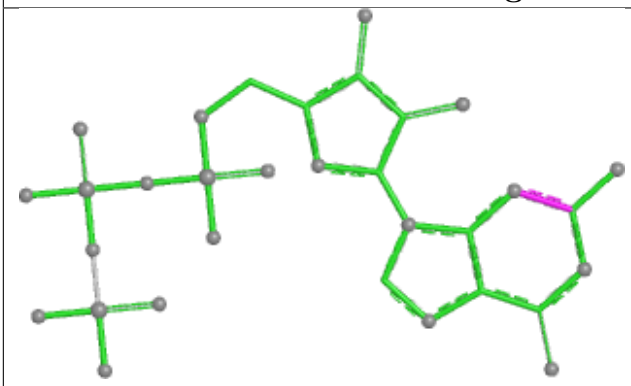


Rings

Ligand GTP AM 501



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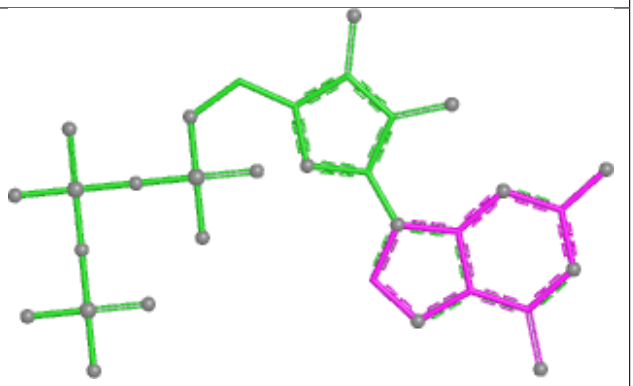

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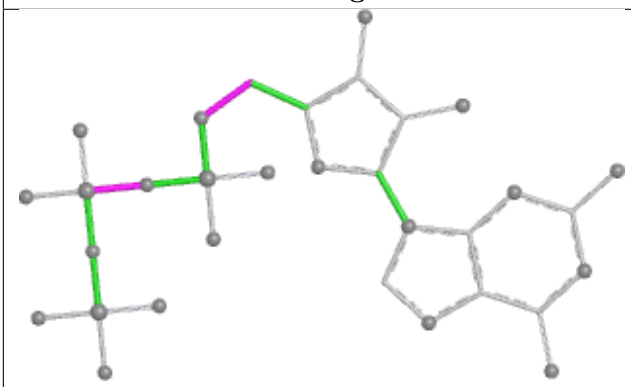

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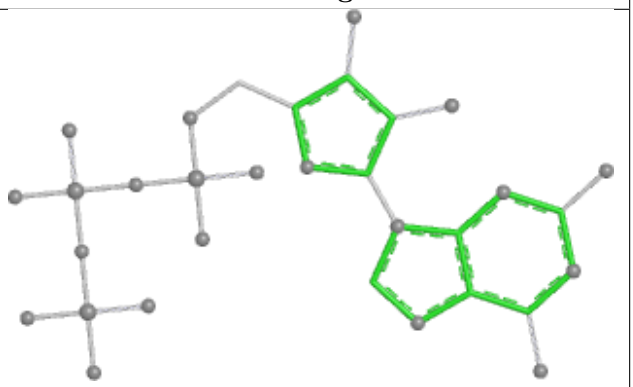
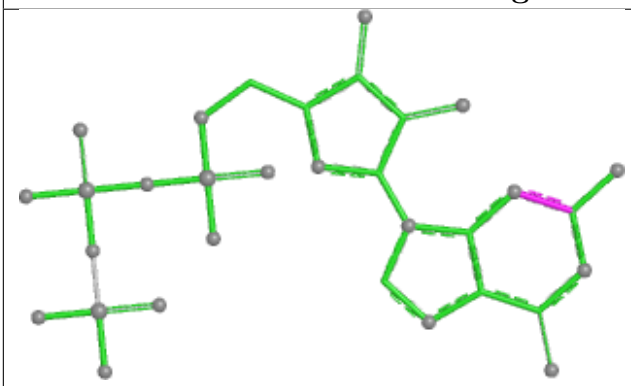


Rings

Ligand GTP SK 501



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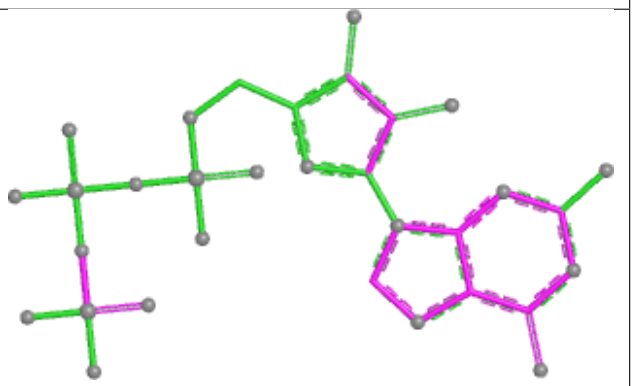

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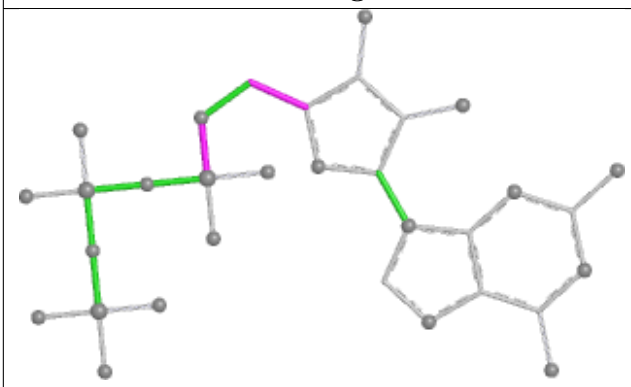

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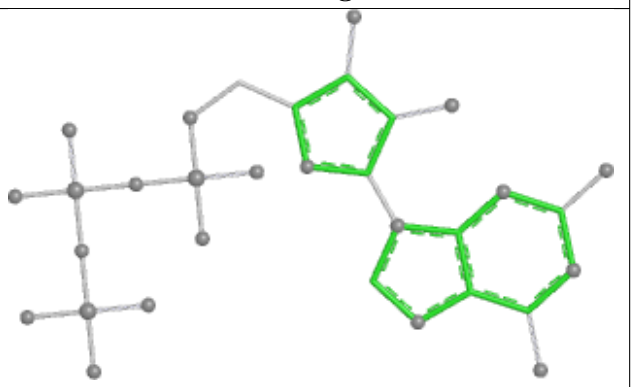

Rings

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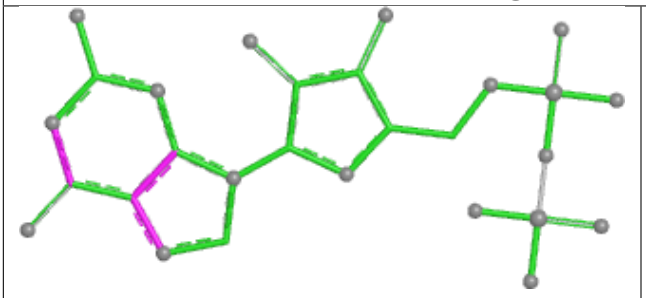

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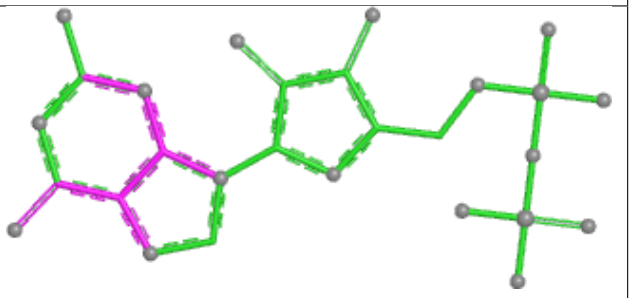

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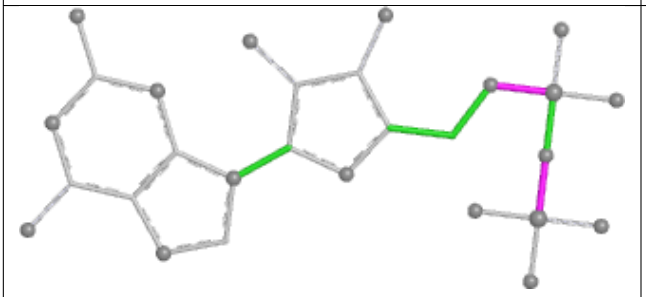

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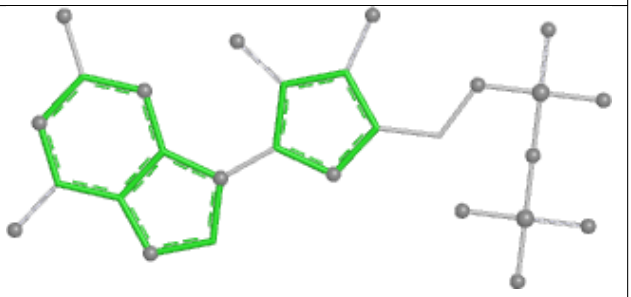

Rings

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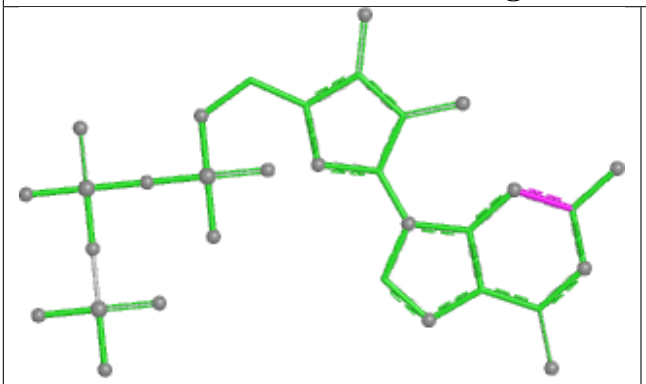

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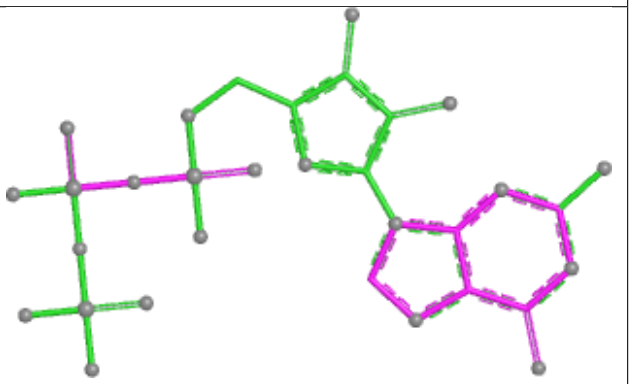

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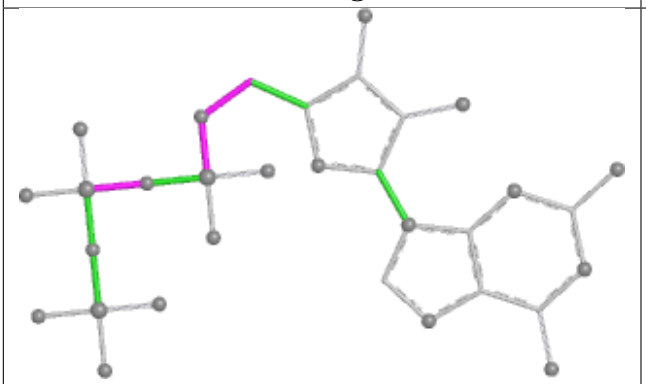

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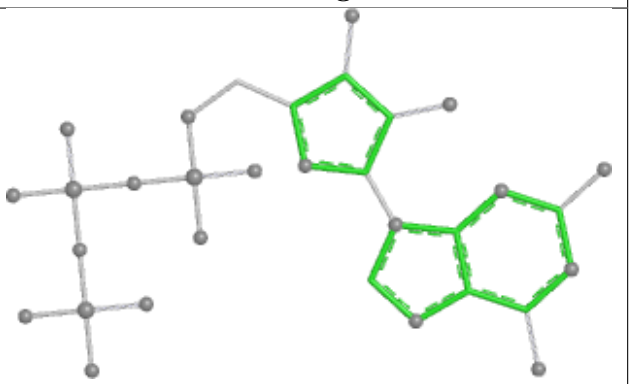

Rings

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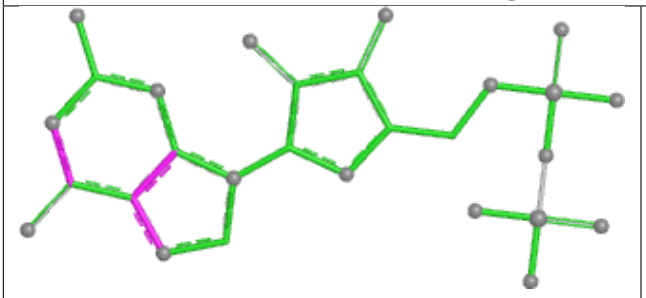

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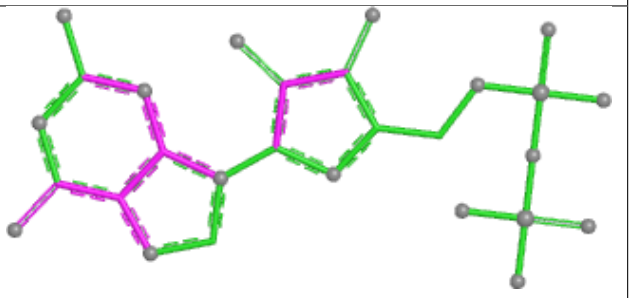

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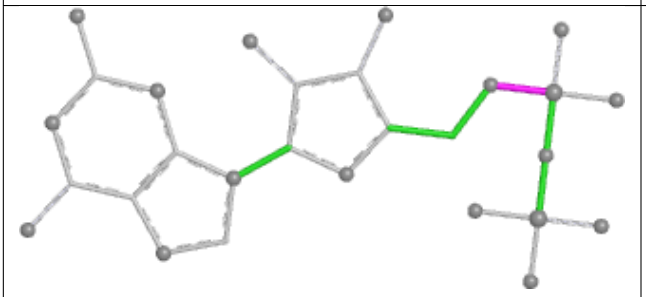

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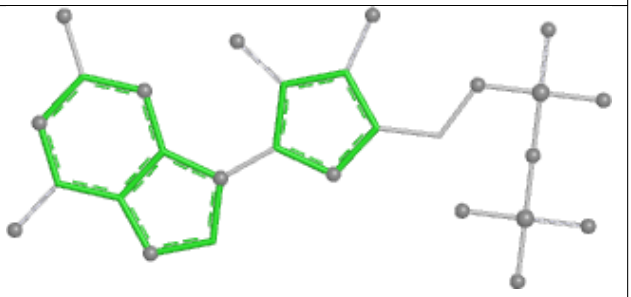
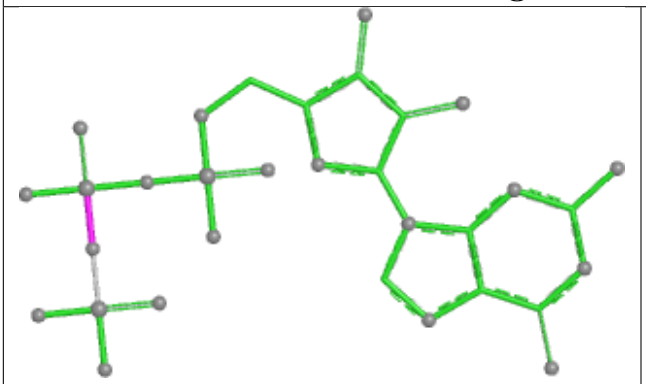


Rings

Ligand GTP AD 502



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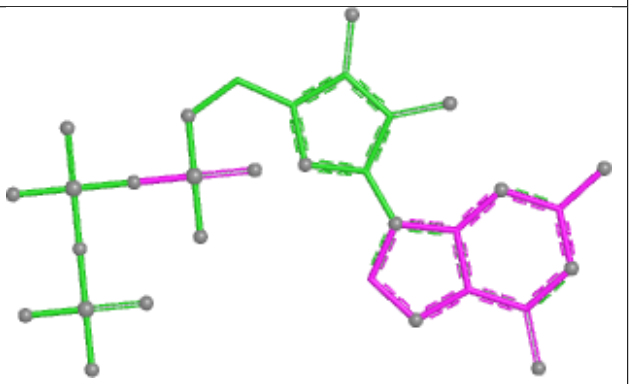

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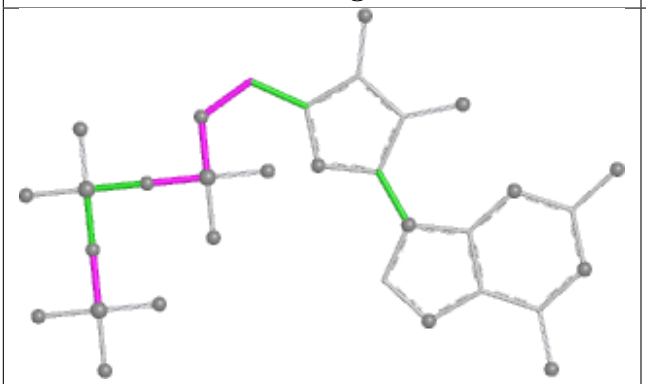

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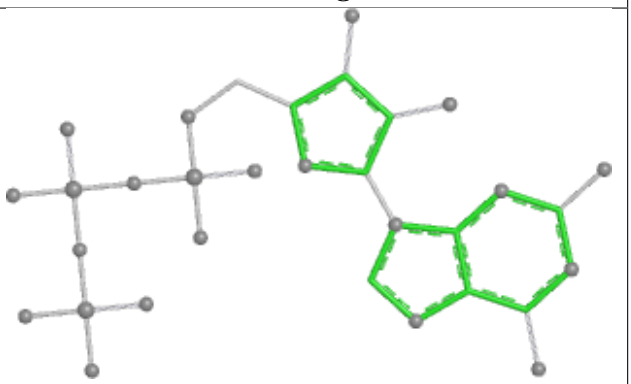
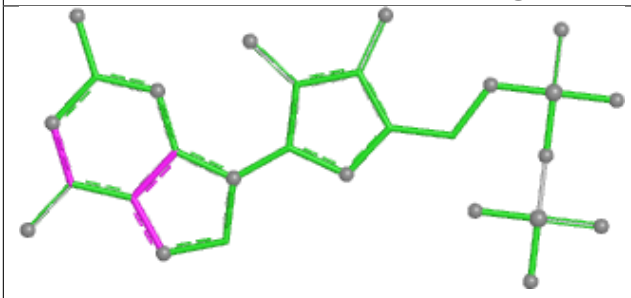


Rings

Ligand GDP HL 501



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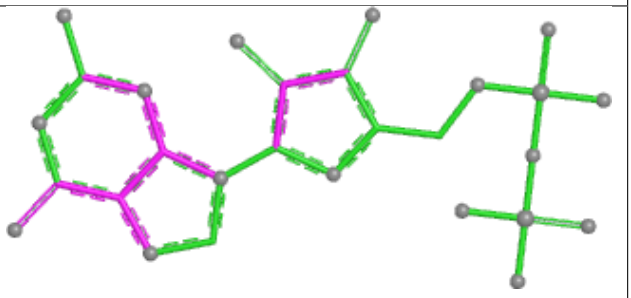

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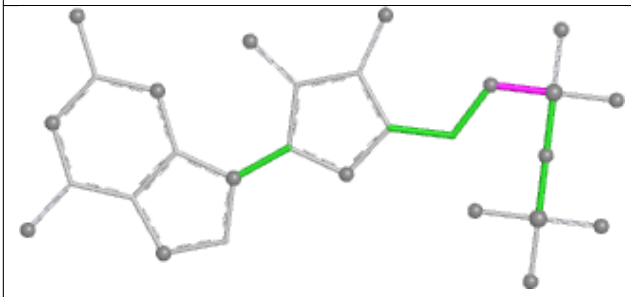

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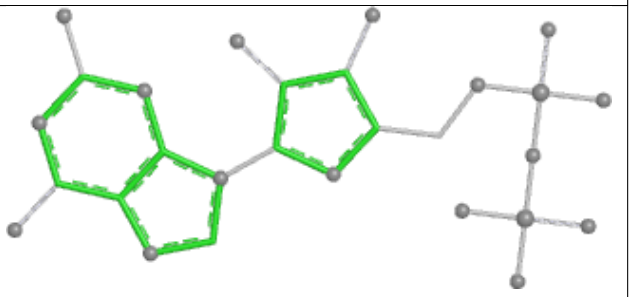
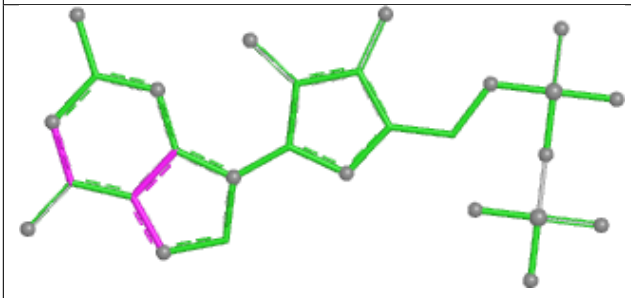


Rings

Ligand GDP TB 501



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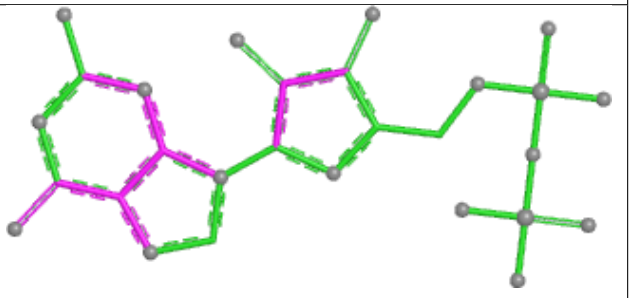

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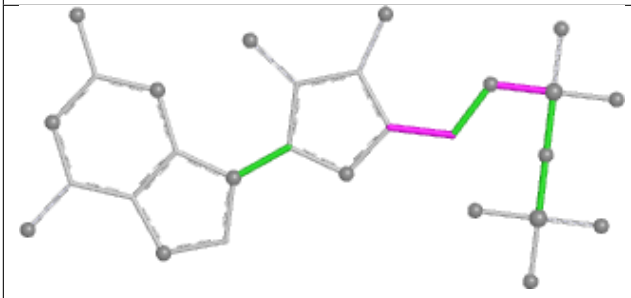

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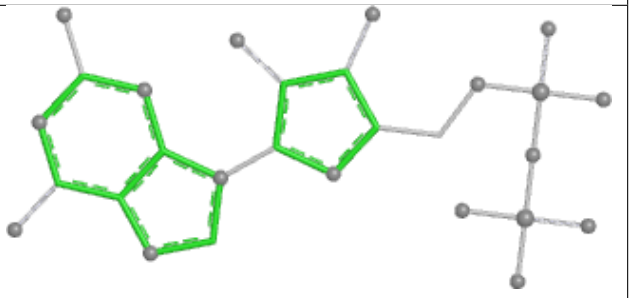
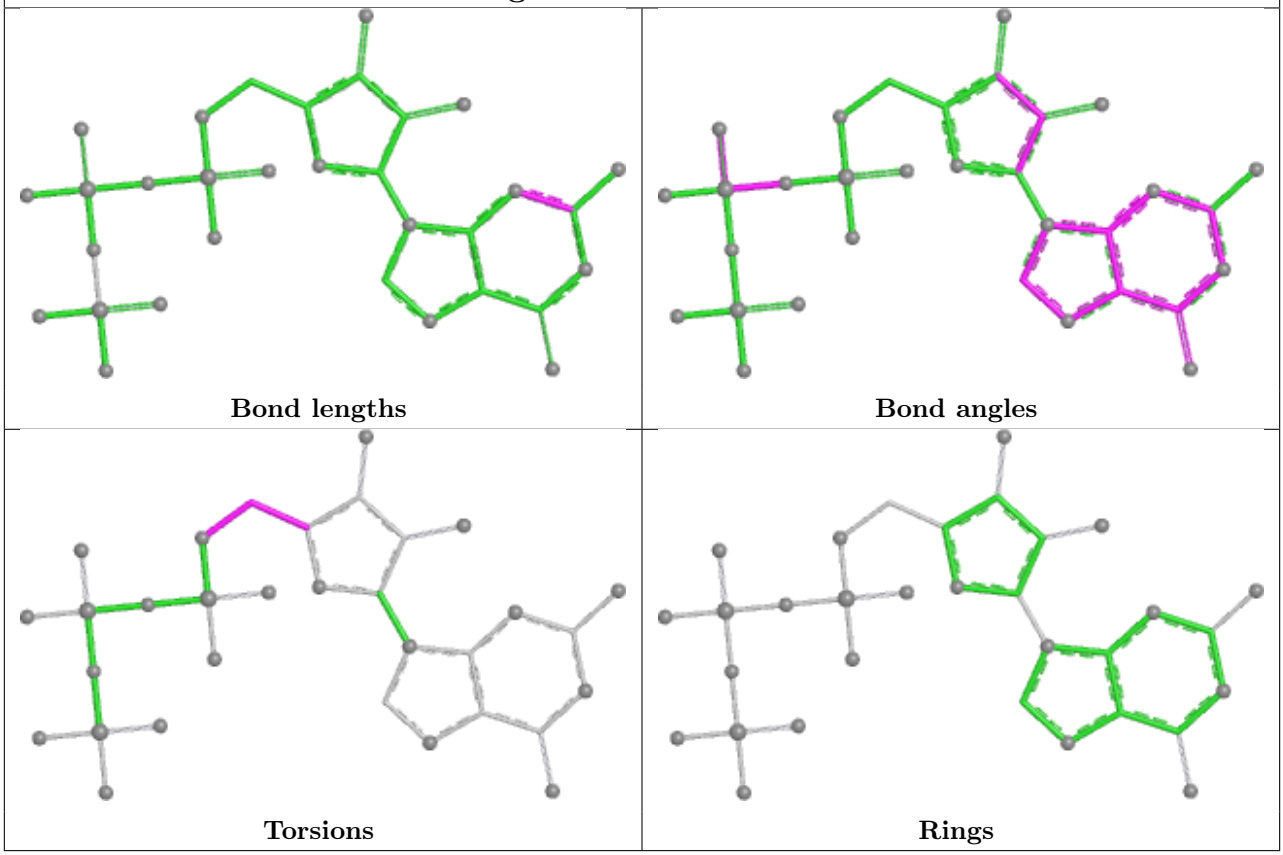
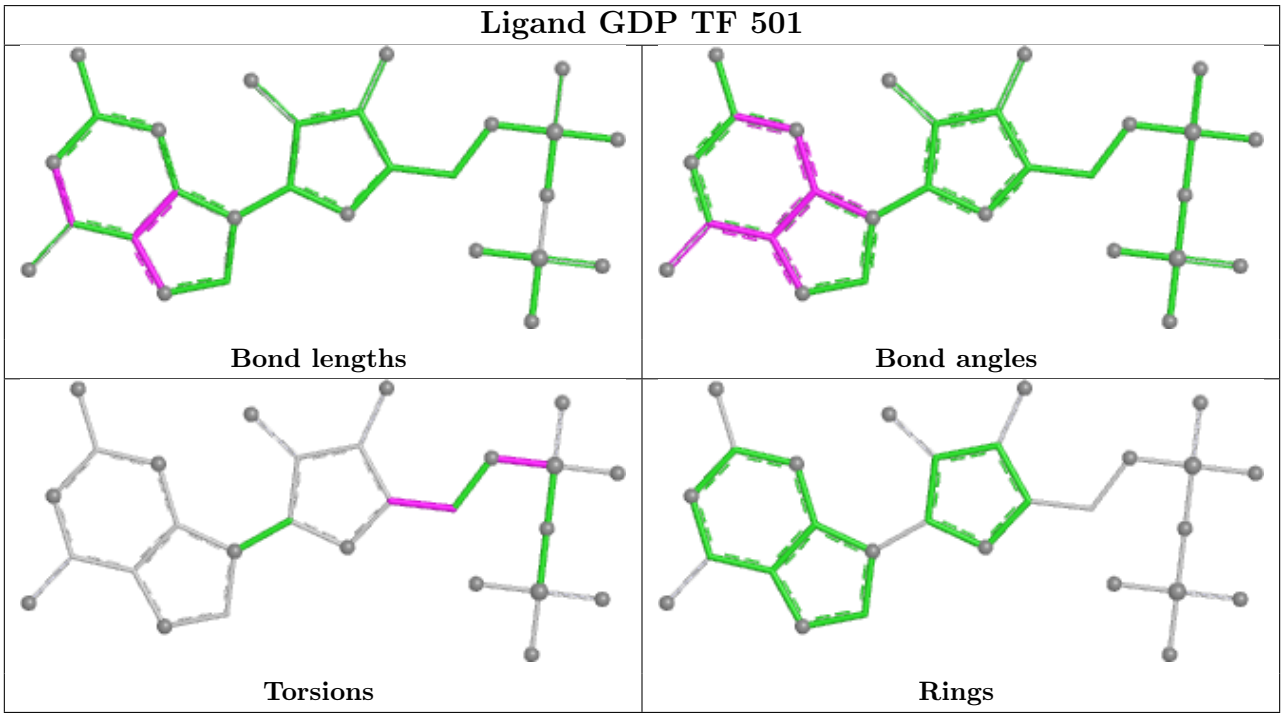


Rings

Ligand GTP GG 501



Ligand GDP TF 501



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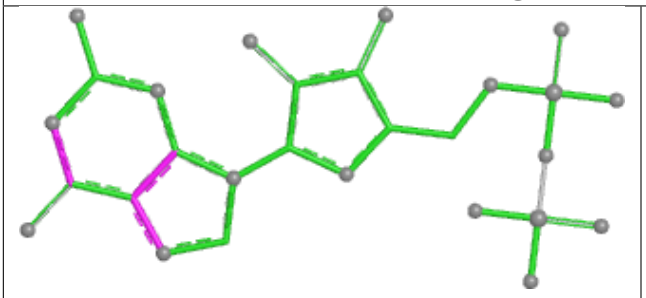
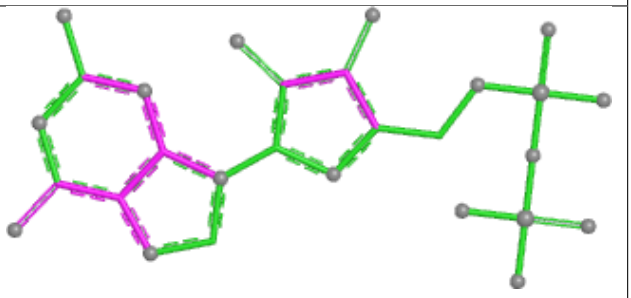
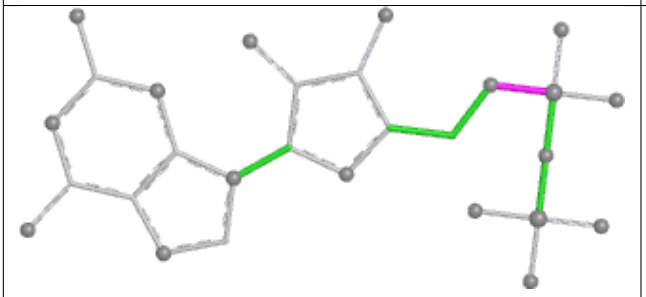


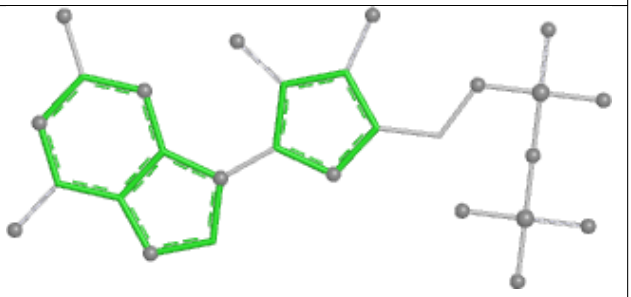
Bond lengths



Bond angles

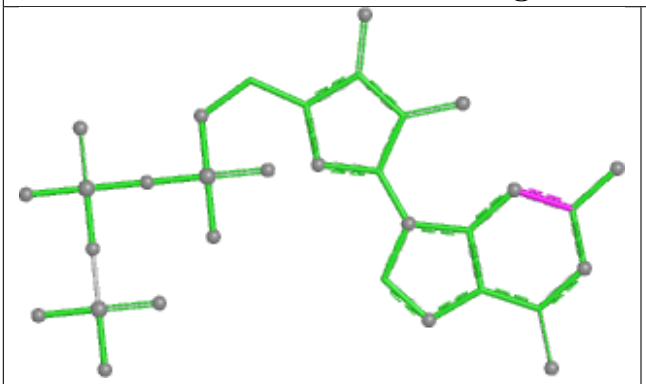


Torsions



Rings

Ligand GTP FE 501



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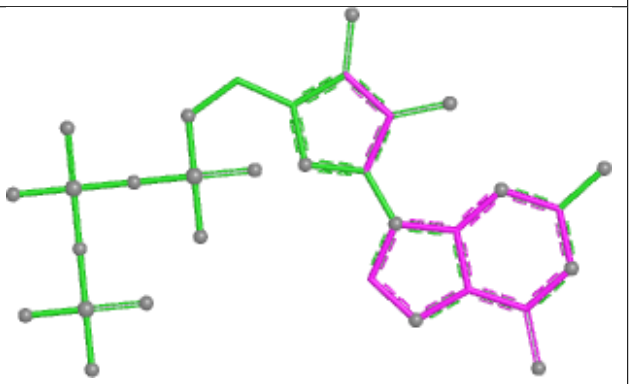

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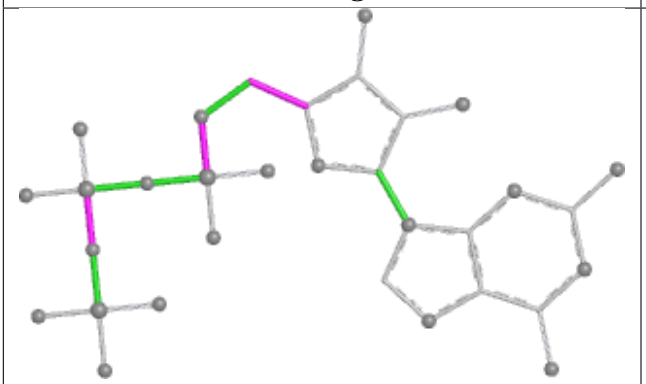

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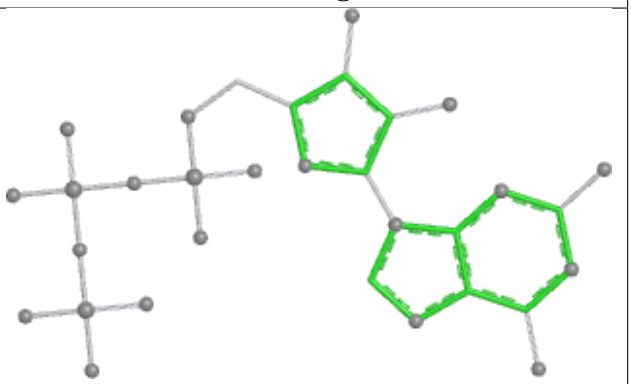

Rings

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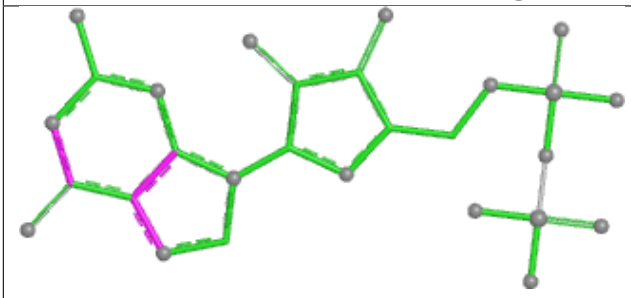
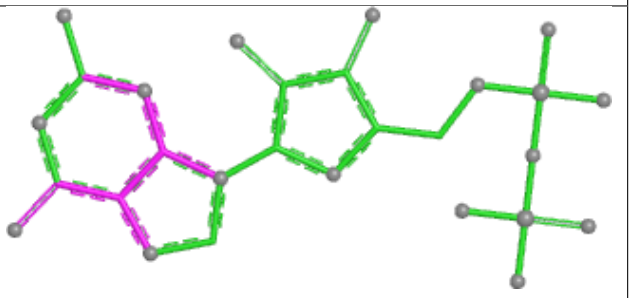
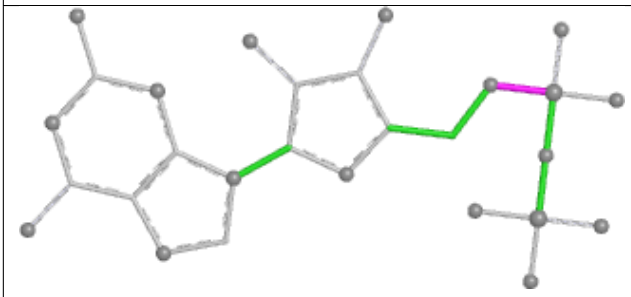
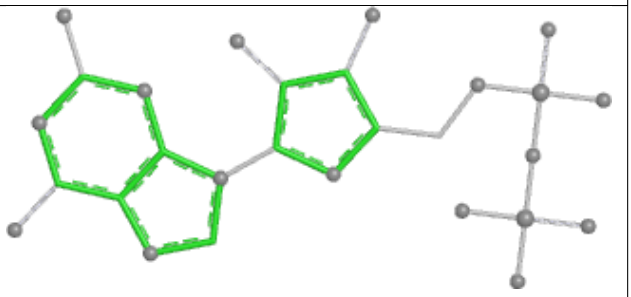
 Bond lengths	 Bond angles
 Torsions	 Rings

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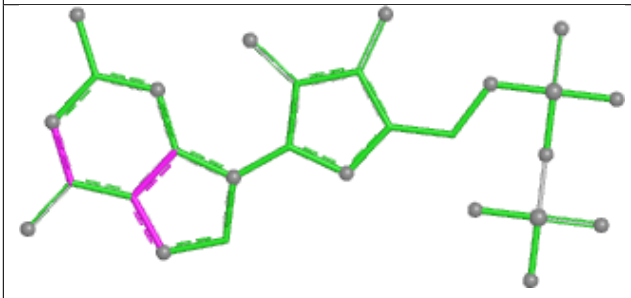
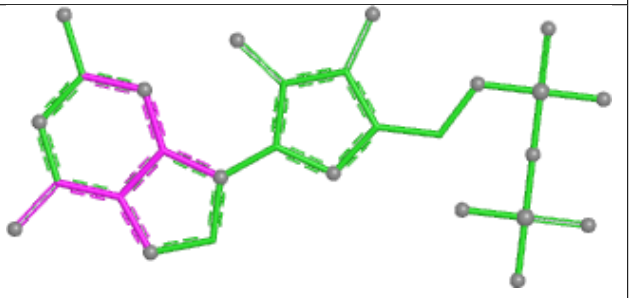
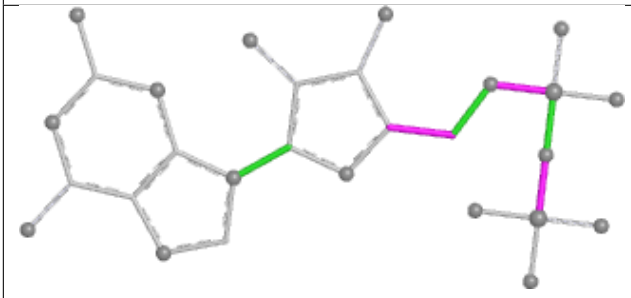
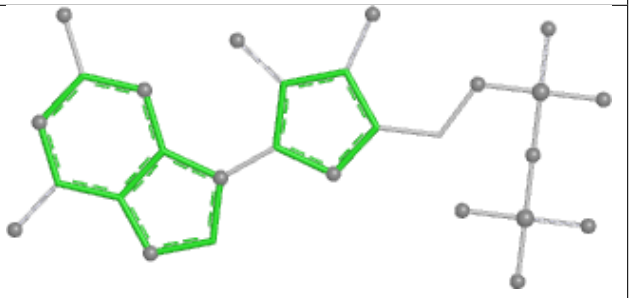
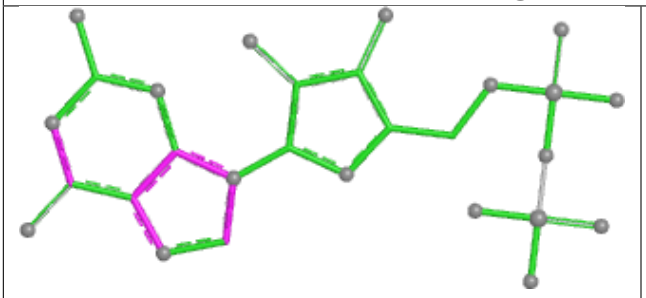
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP RJ 501



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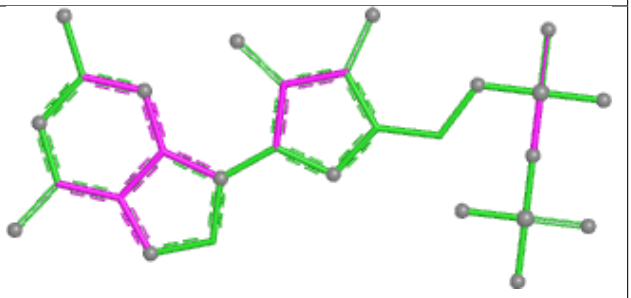

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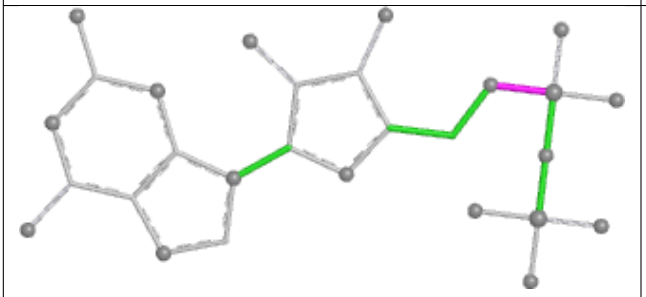

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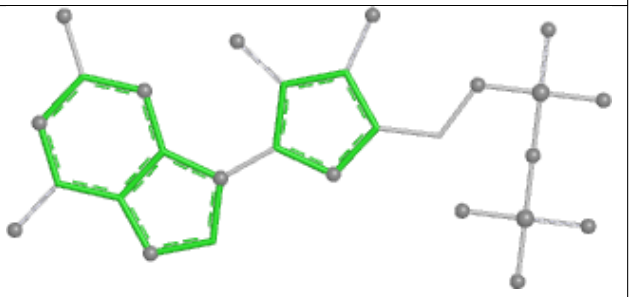
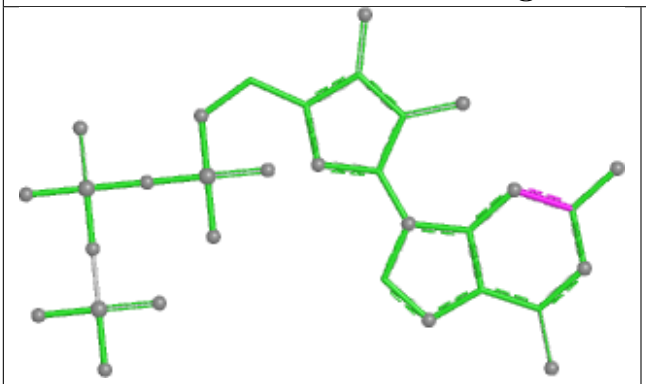


Rings

Ligand GTP IE 501



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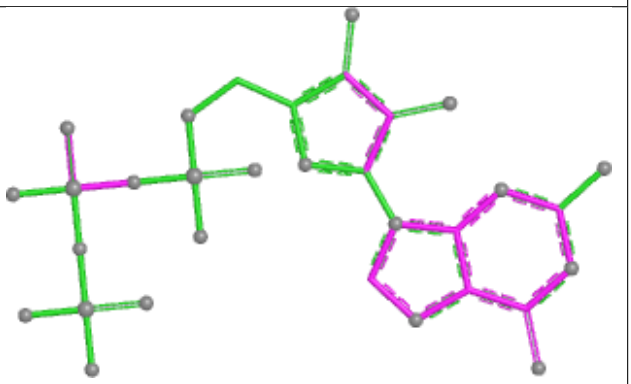

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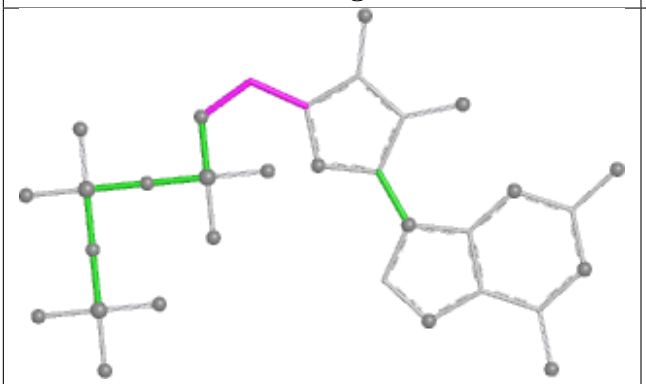

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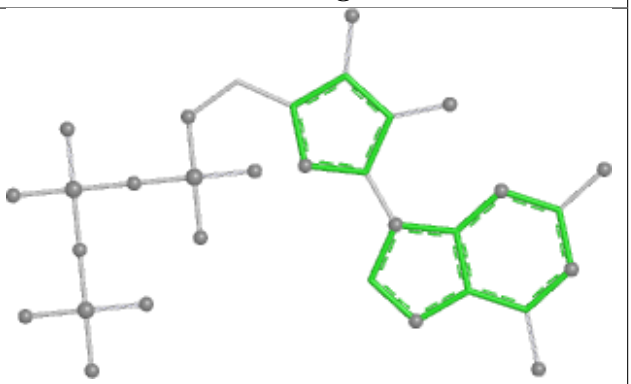

Rings

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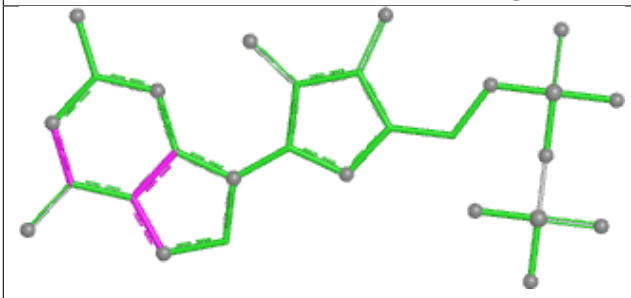
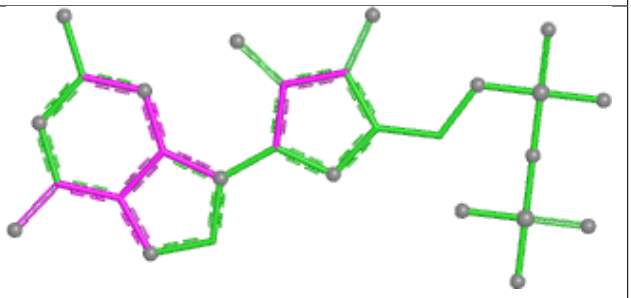
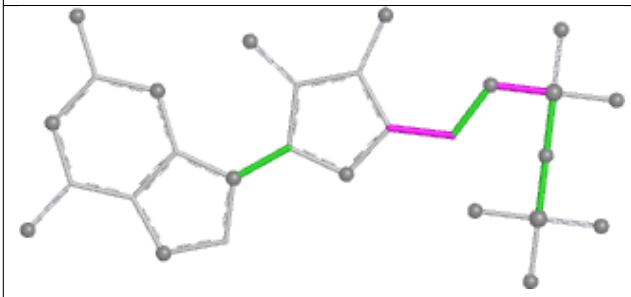
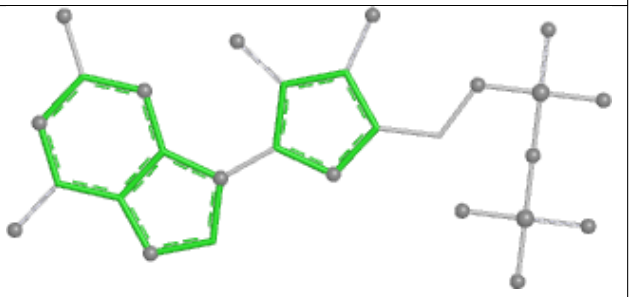
 Bond lengths	 Bond angles
 Torsions	 Rings

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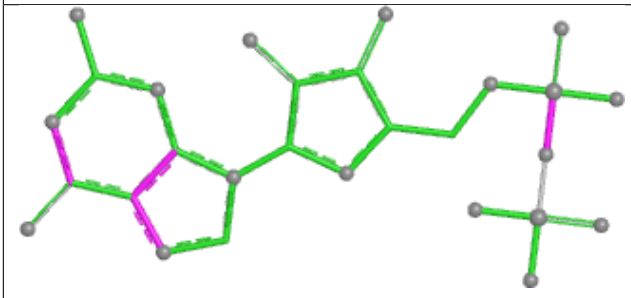
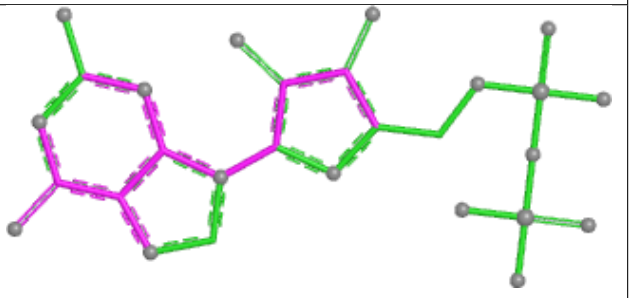
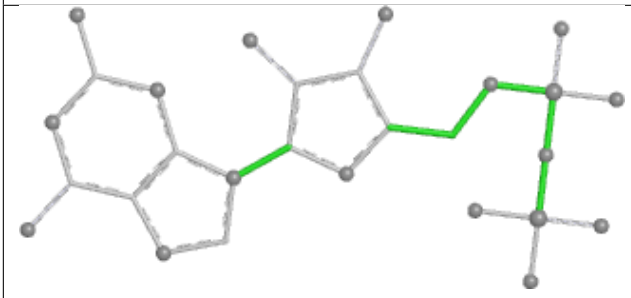
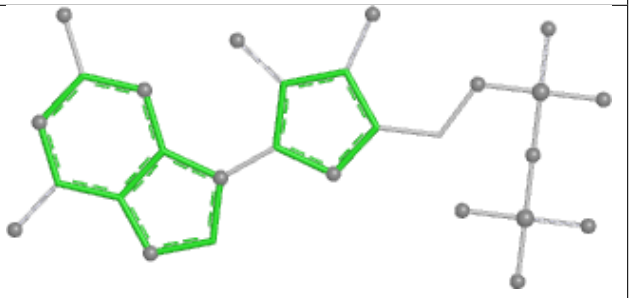
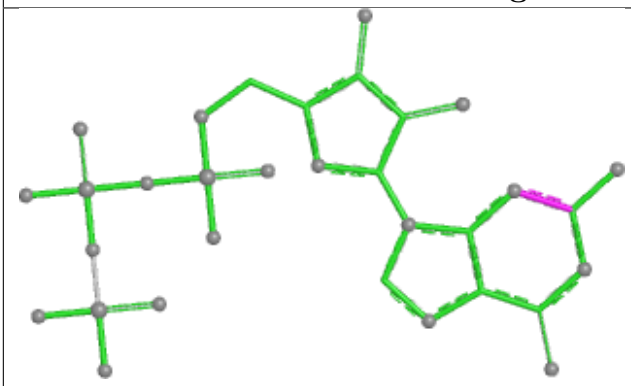
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP RB 502



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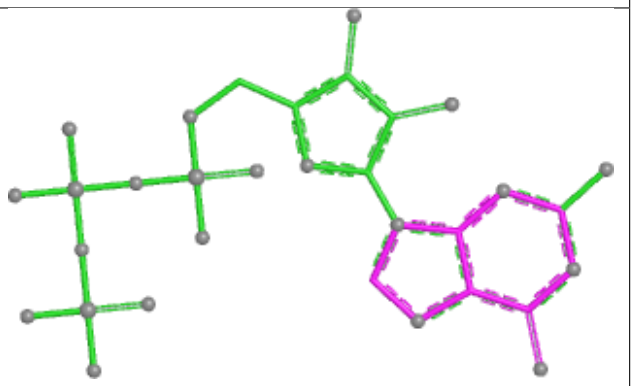

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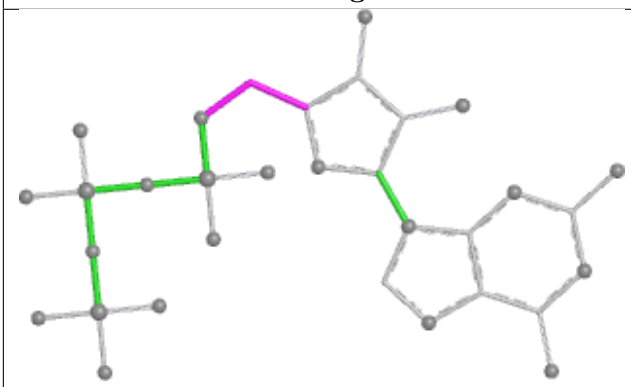

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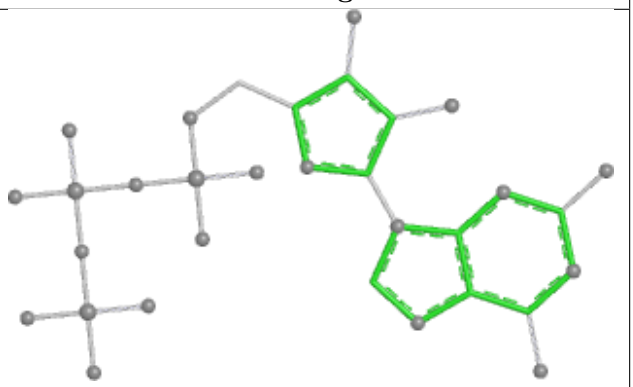

Rings

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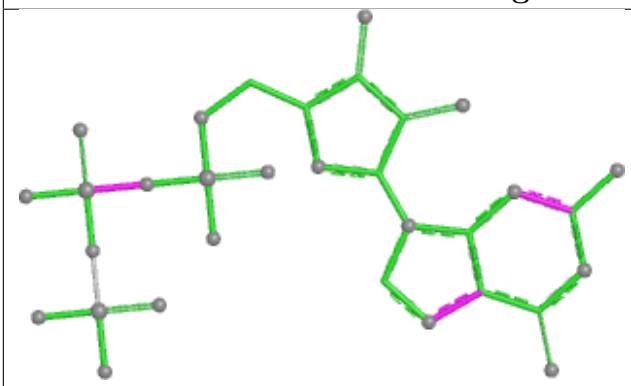

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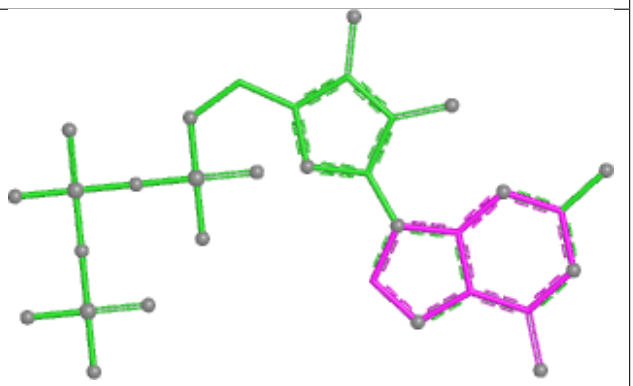

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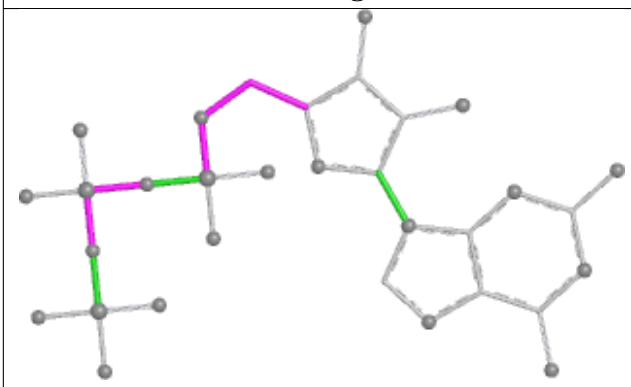

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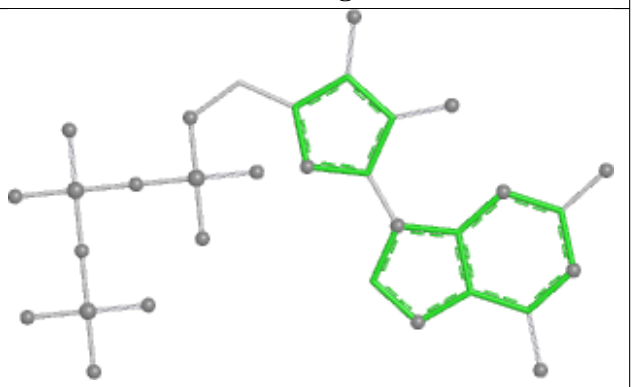
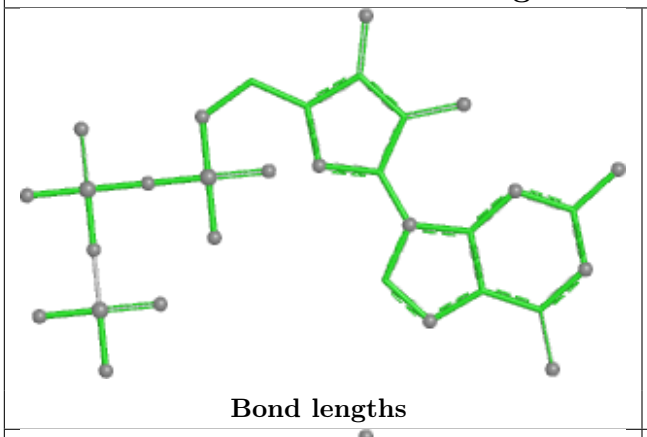


Rings

Ligand GTP MI 501



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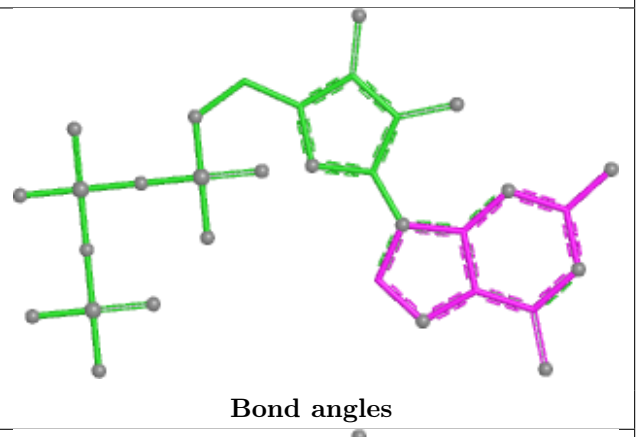

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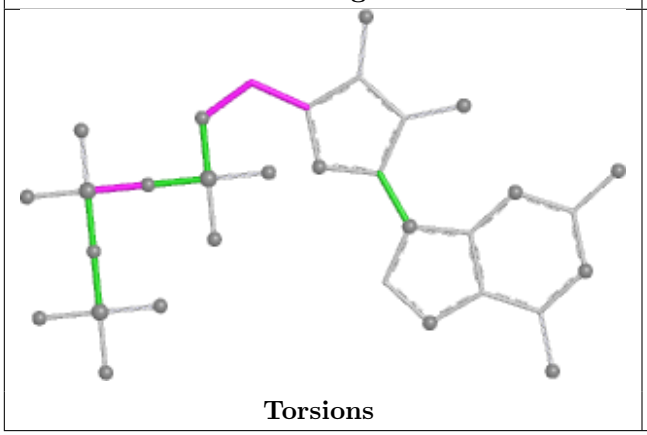

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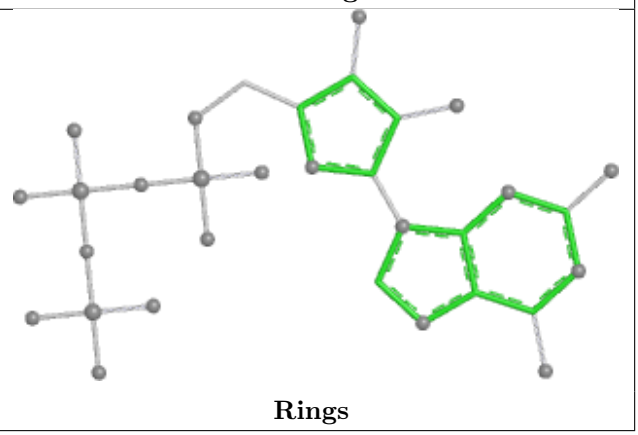
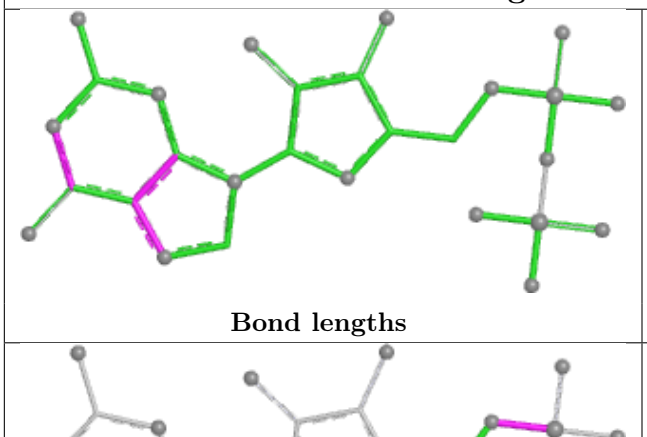


Rings

Ligand GDP RH 501



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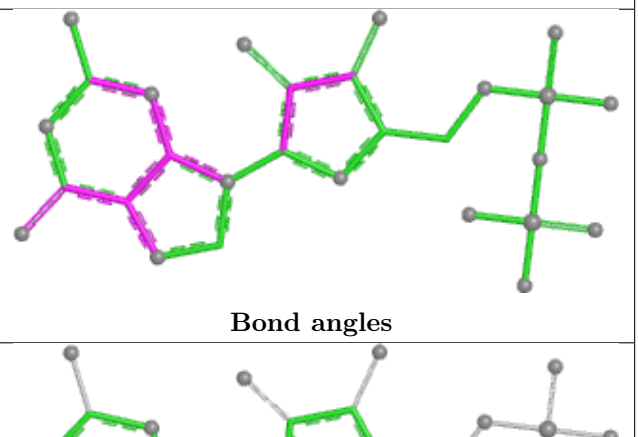

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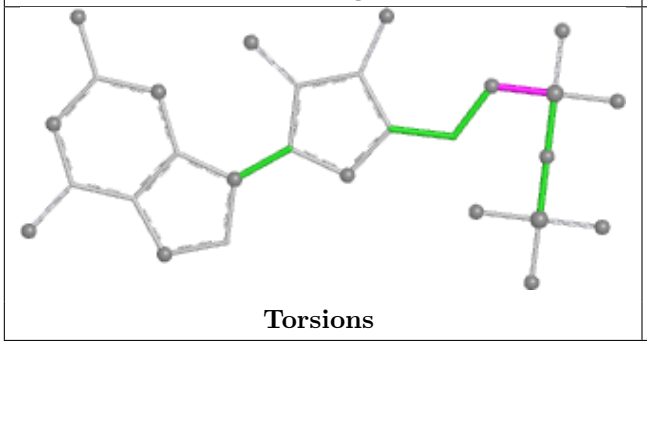

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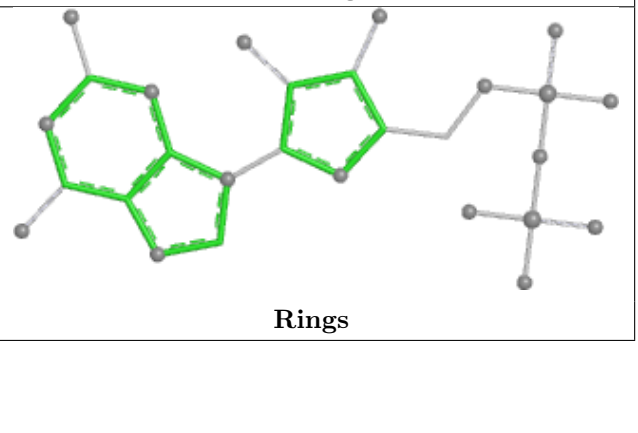

Rings

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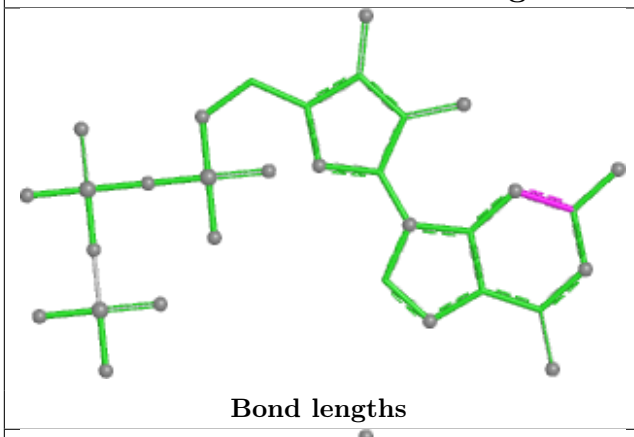

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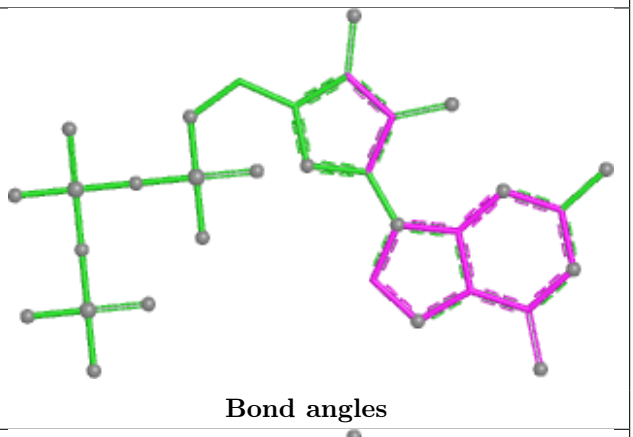
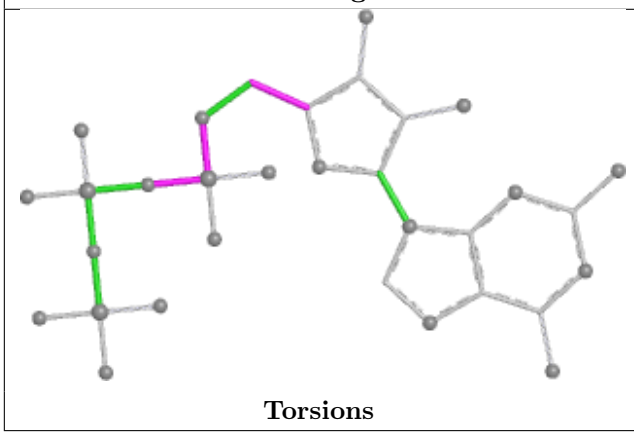


Bond angles



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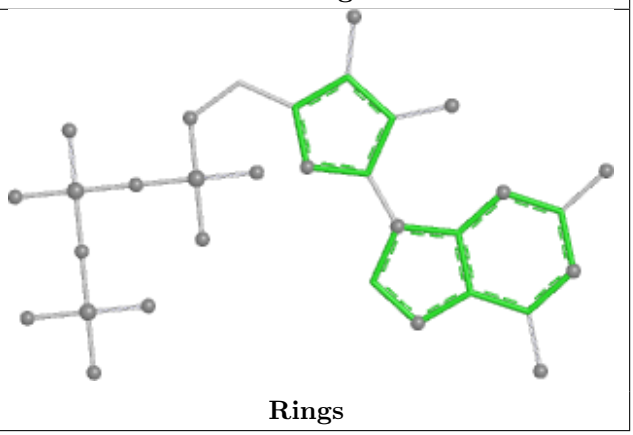

Rings

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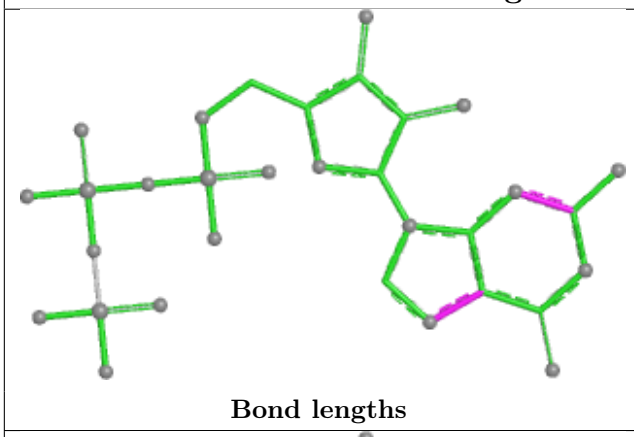

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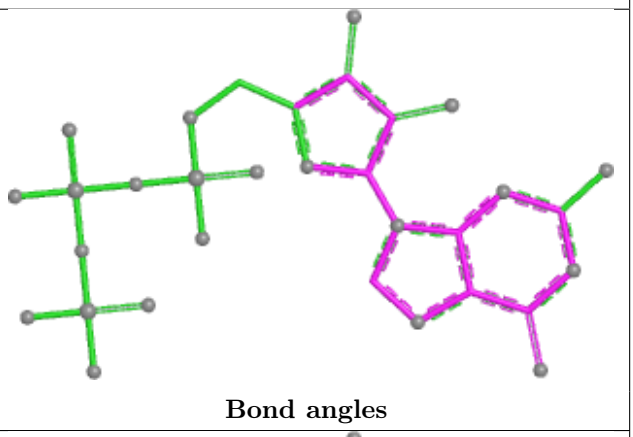
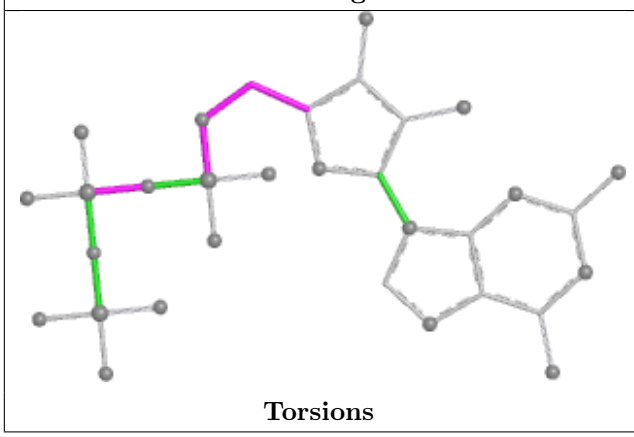
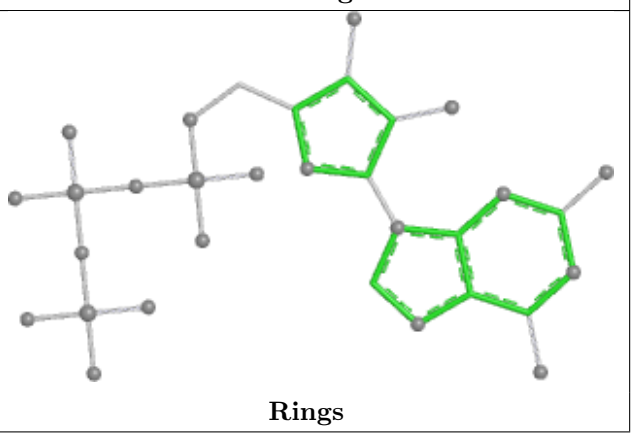


Bond angles

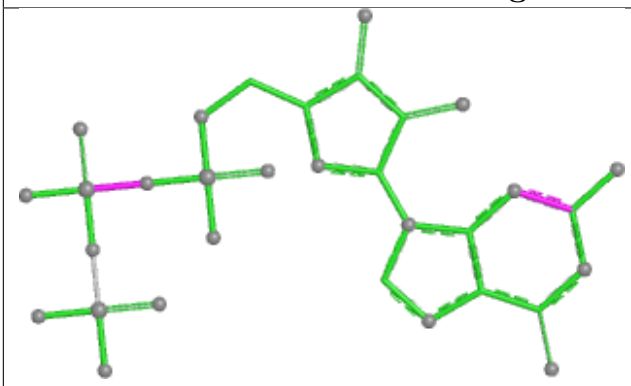


Torsions



Rings

Ligand GTP DC 501



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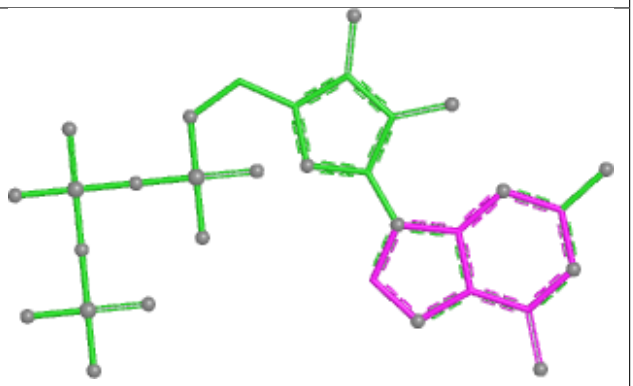

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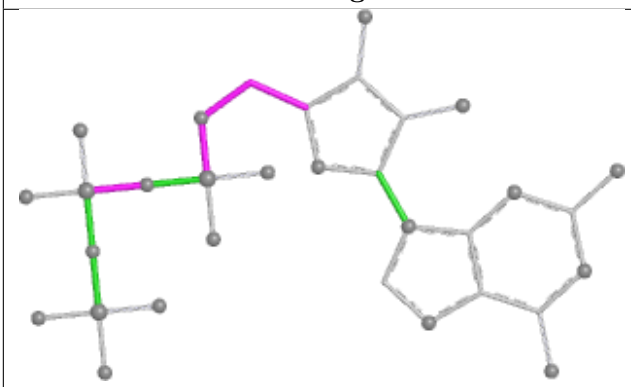

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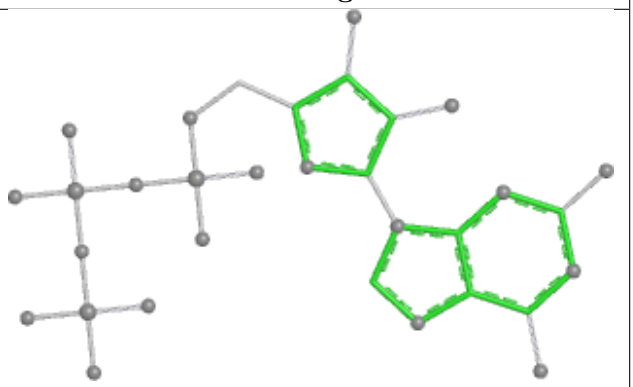
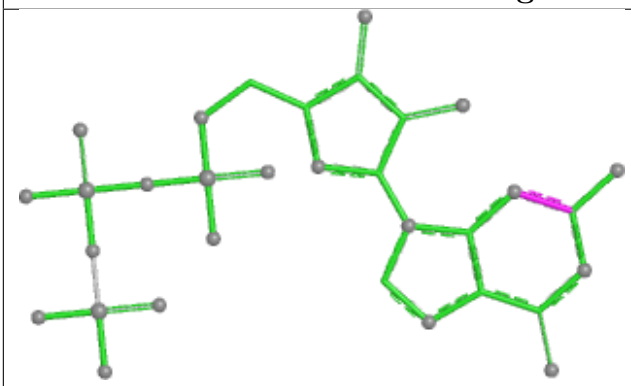


Rings

Ligand GTP PI 501



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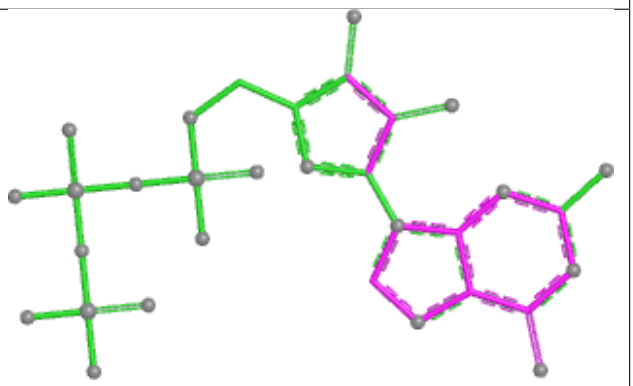

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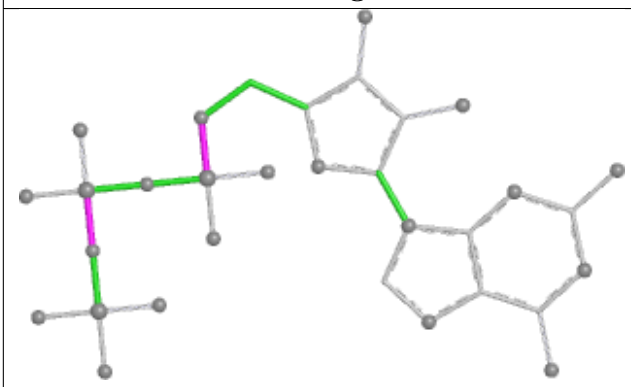

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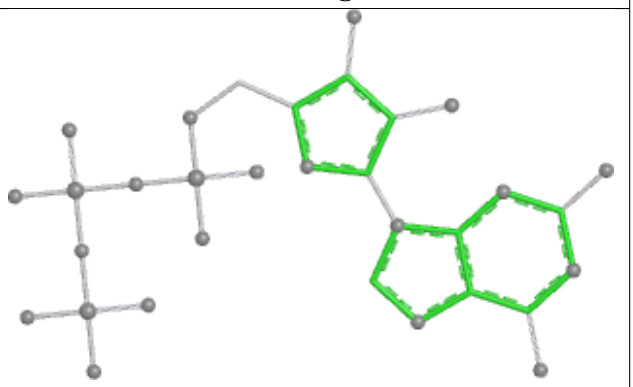
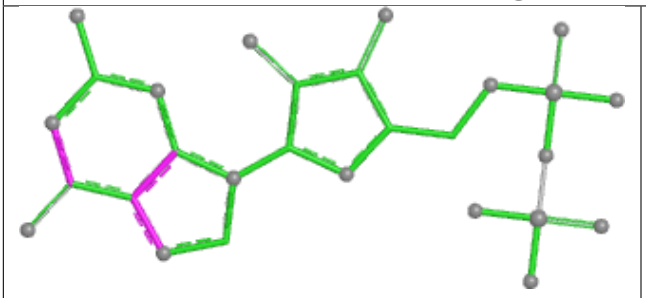


Rings

Ligand GDP VL 501



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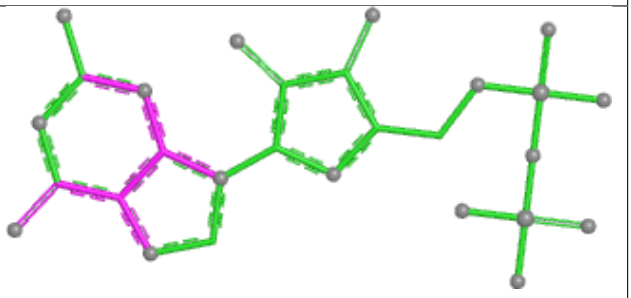

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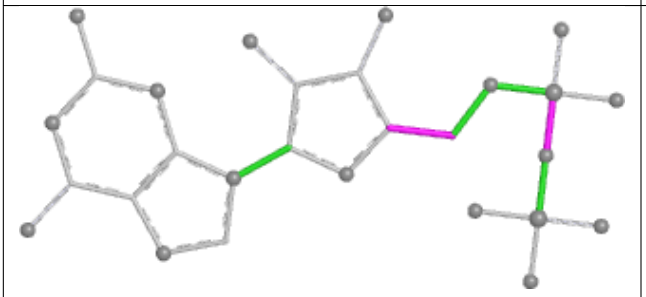

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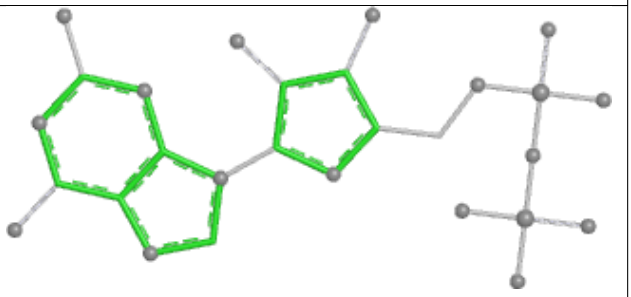
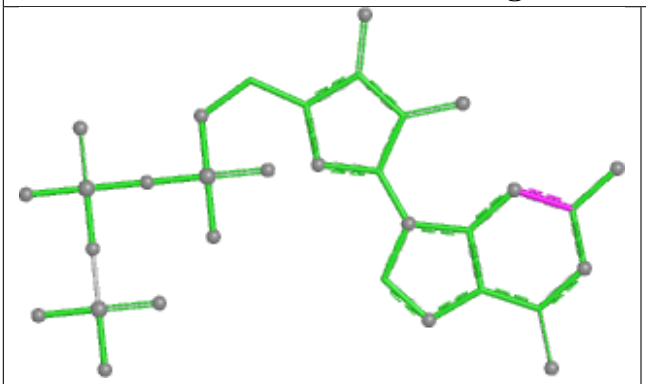


Rings

Ligand GTP BM 501



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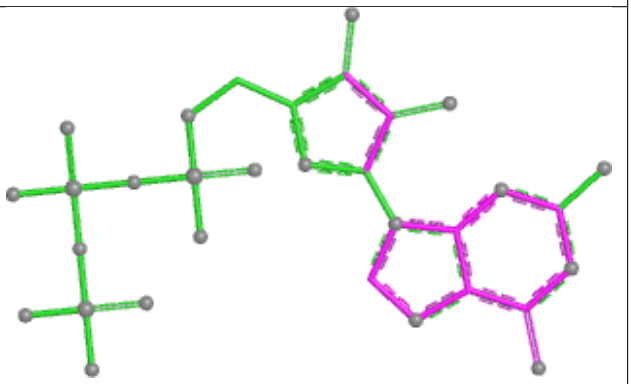

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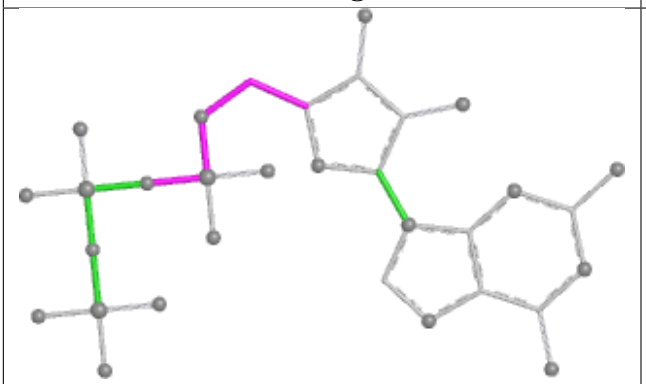

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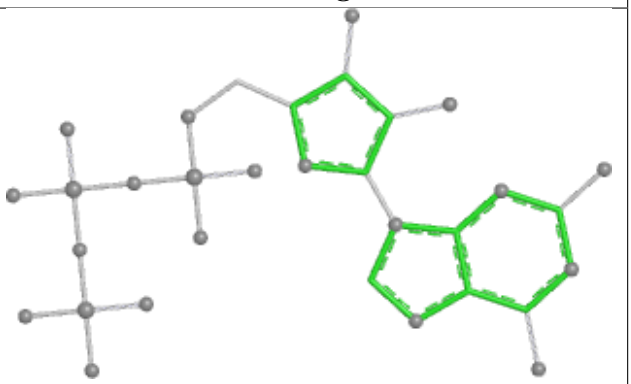

Rings

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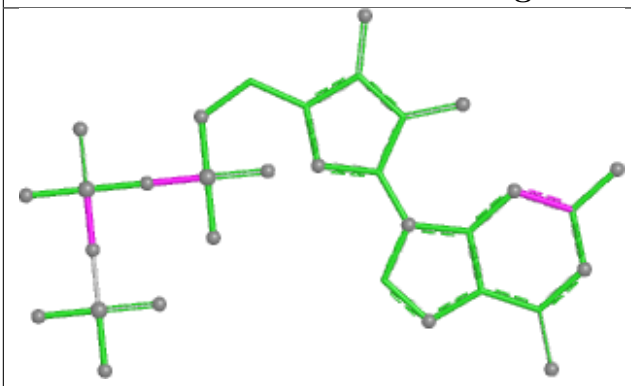

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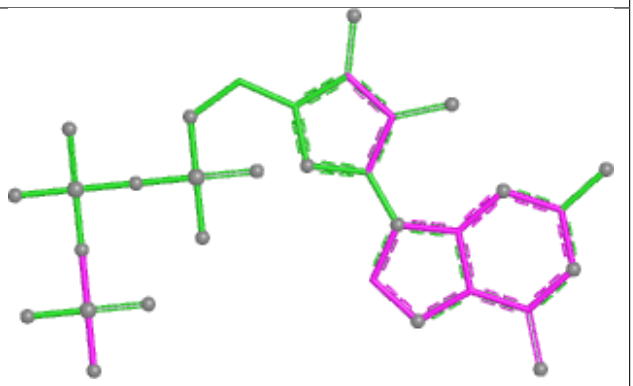

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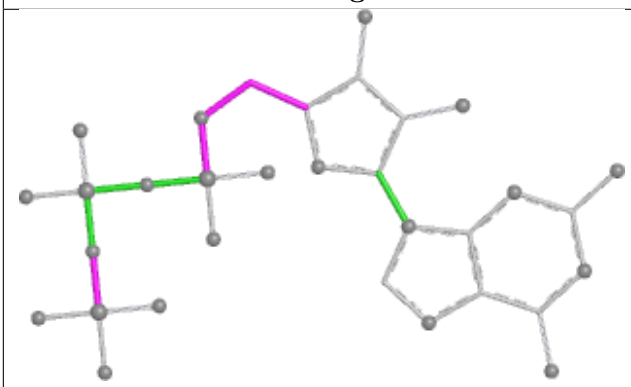

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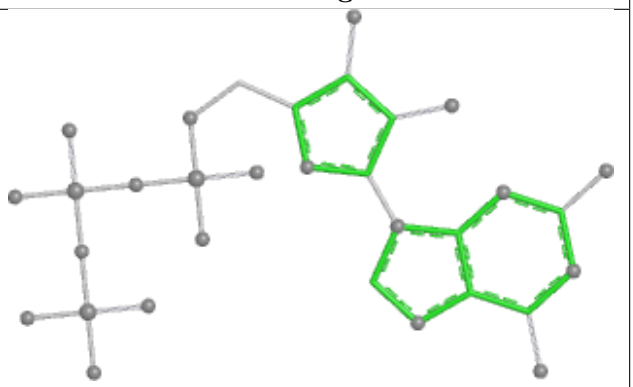
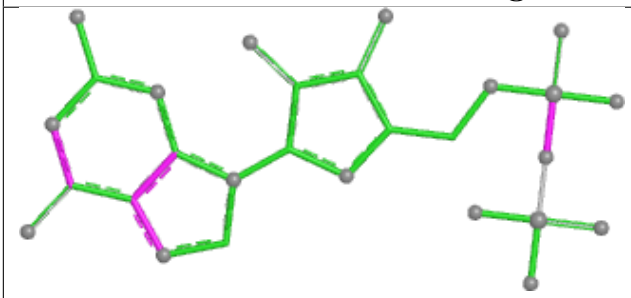


Rings

Ligand GDP BH 501



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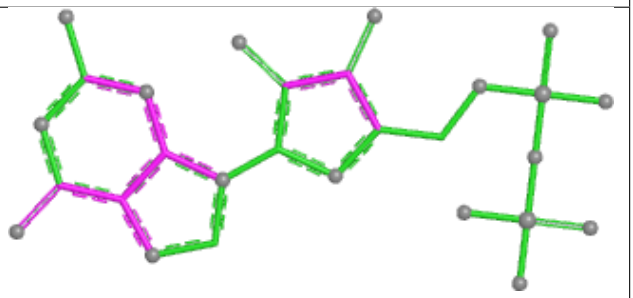

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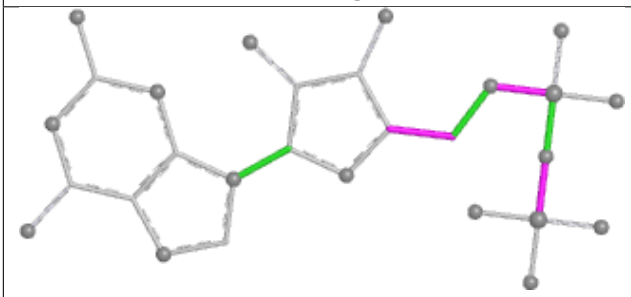

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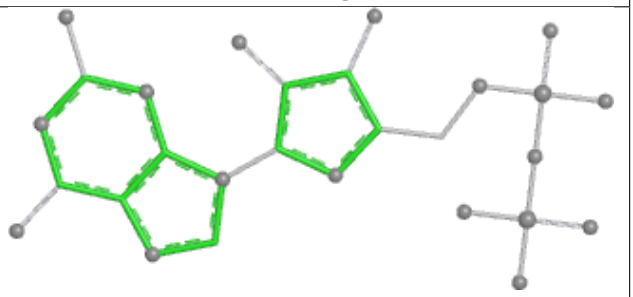
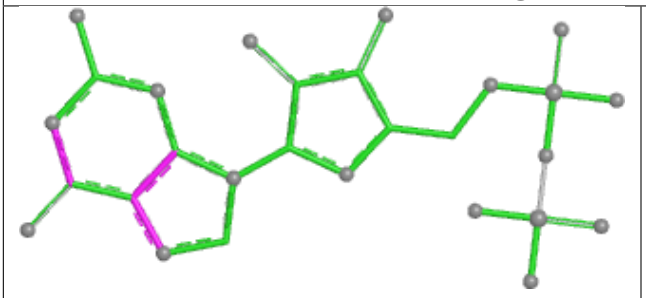


Rings

Ligand GDP FF 501



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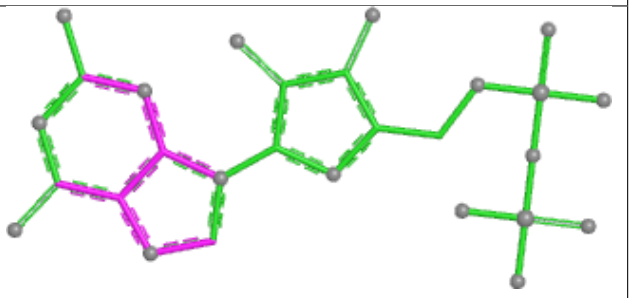

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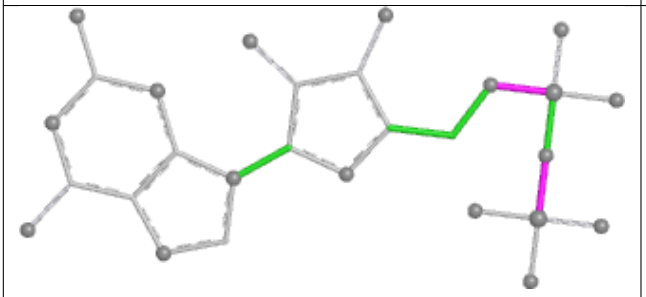

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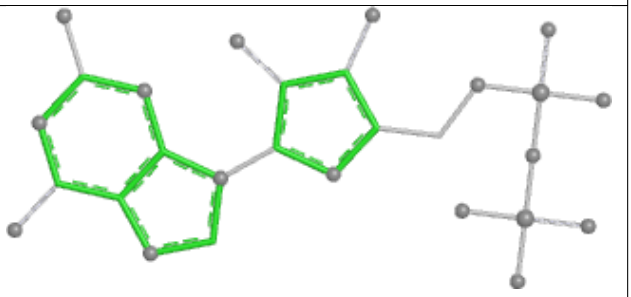
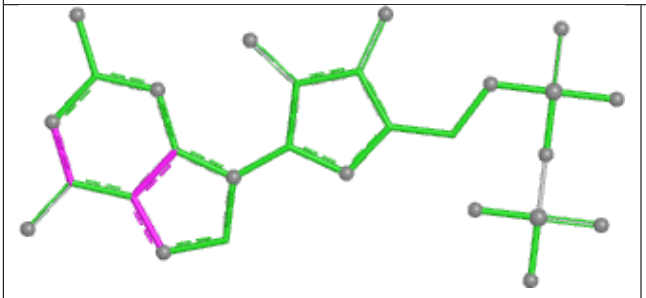


Rings

Ligand GDP GF 501



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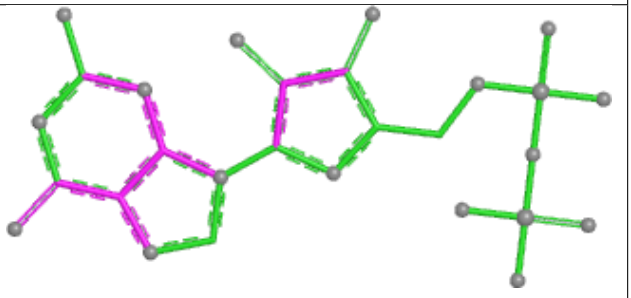

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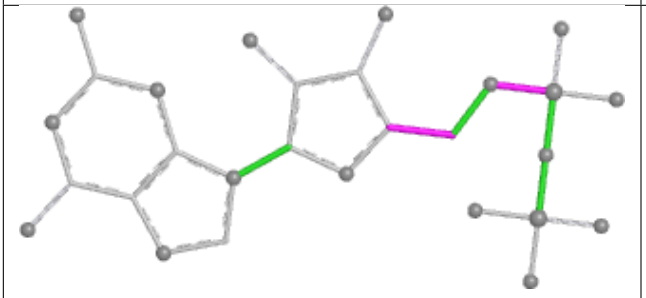

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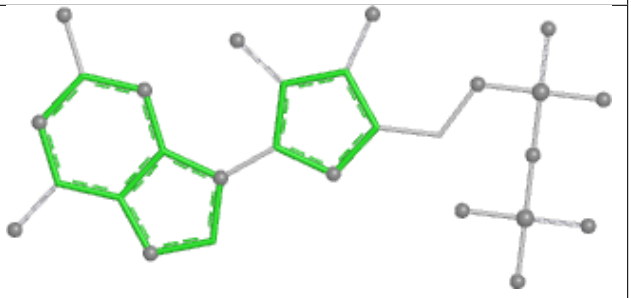
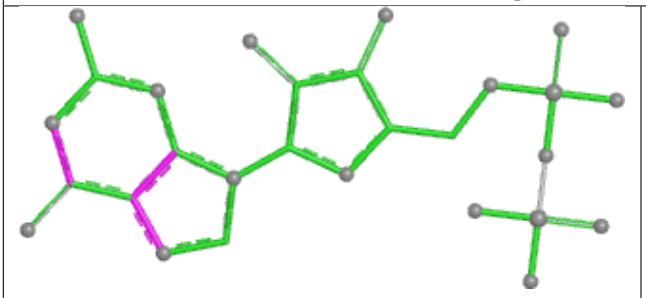


Rings

Ligand GDP EH 501



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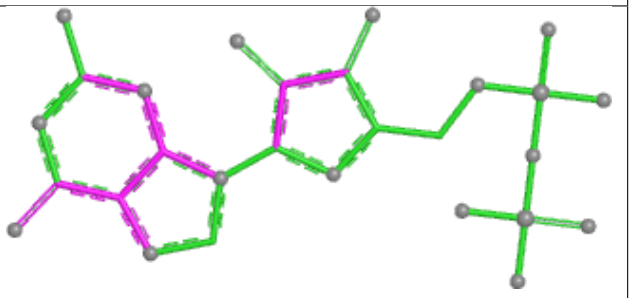

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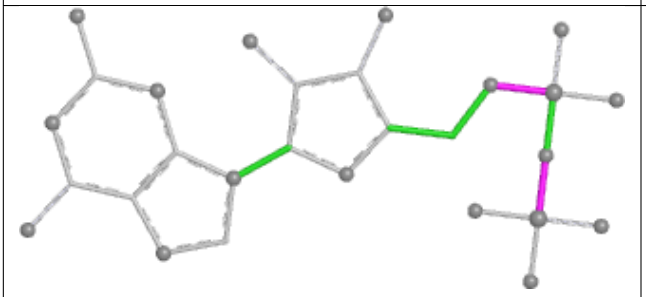

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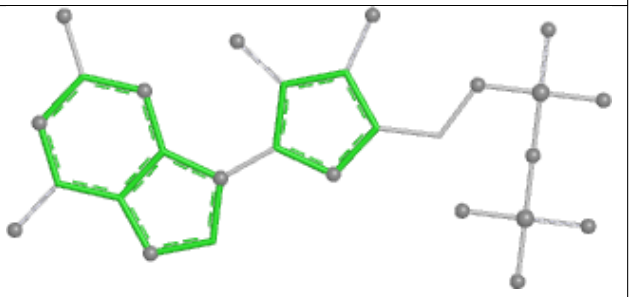
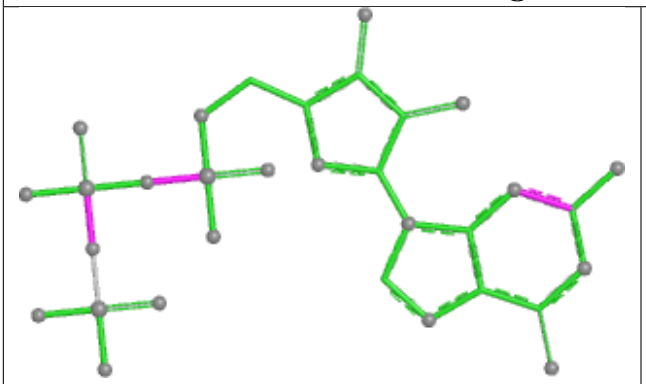


Rings

Ligand GTP QA 501



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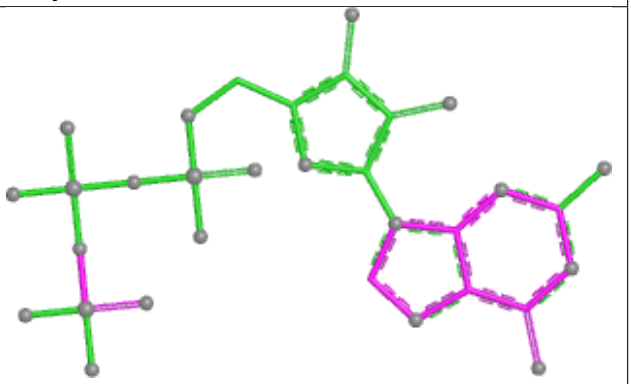

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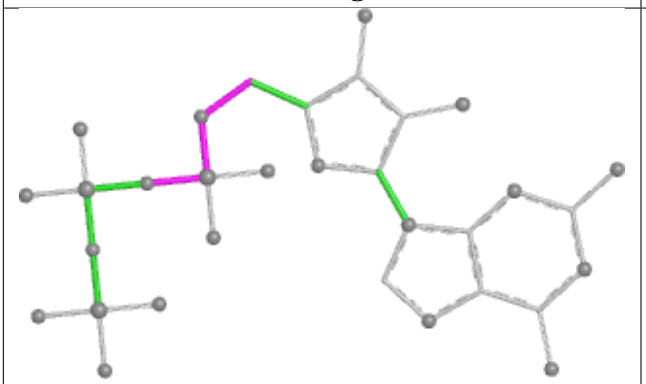

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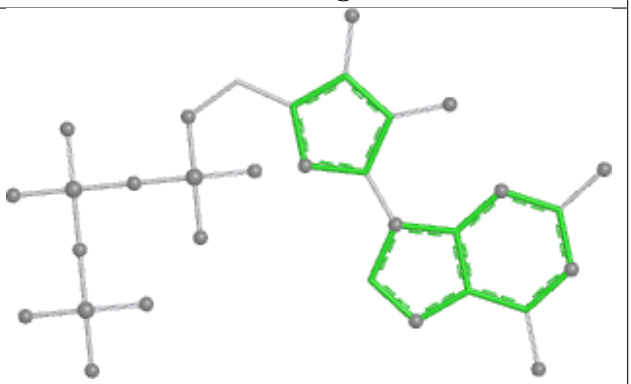
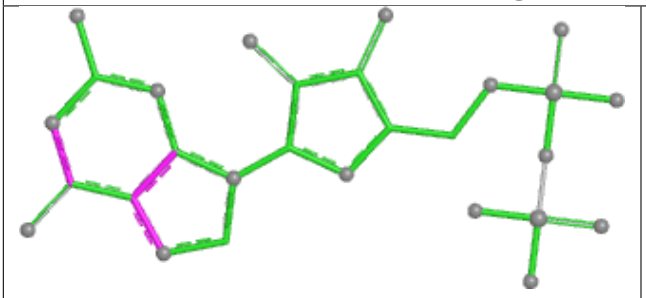


Rings

Ligand GDP FB 501



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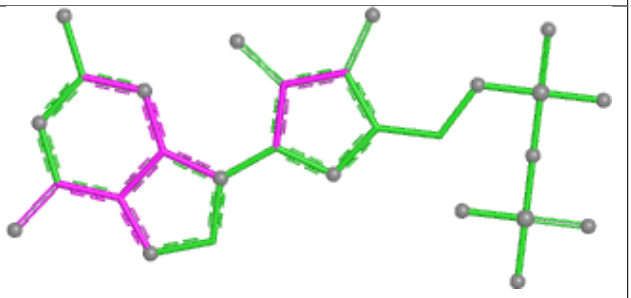

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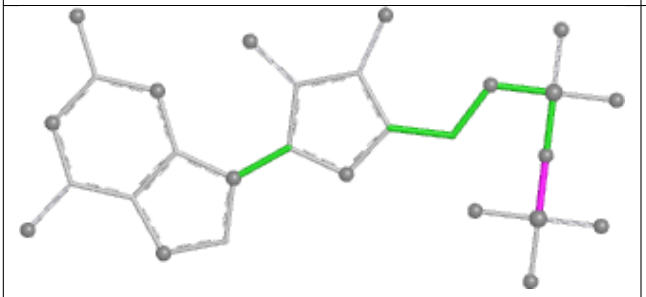

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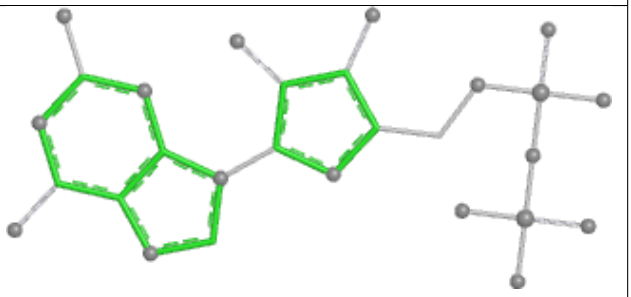
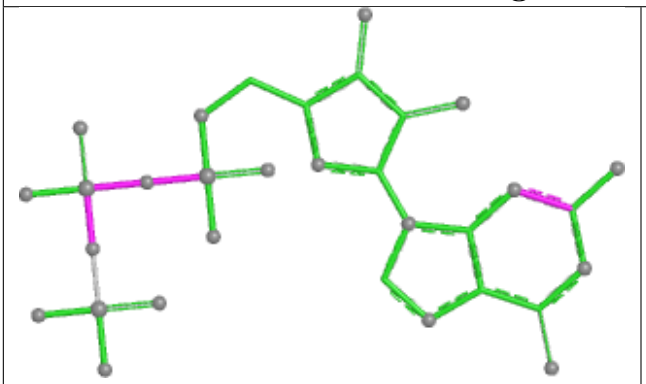


Rings

Ligand GTP NF 502



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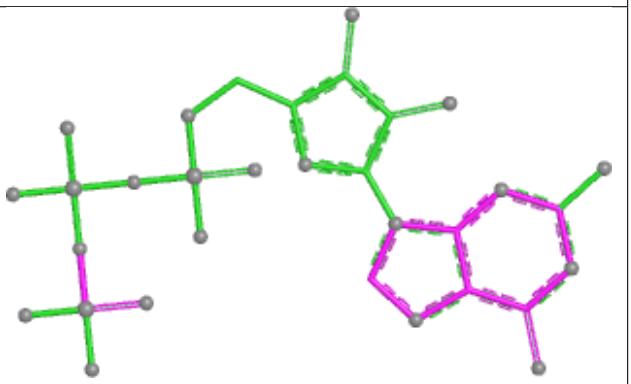

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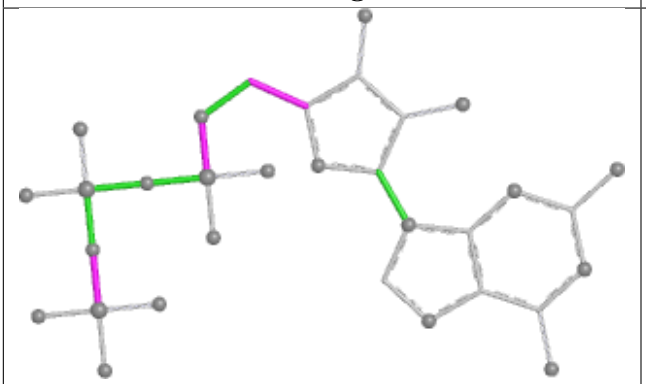

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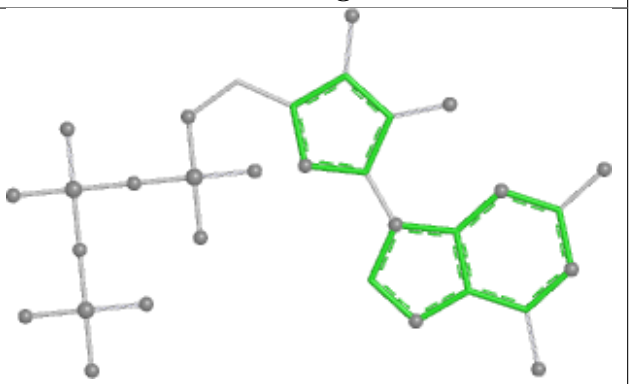
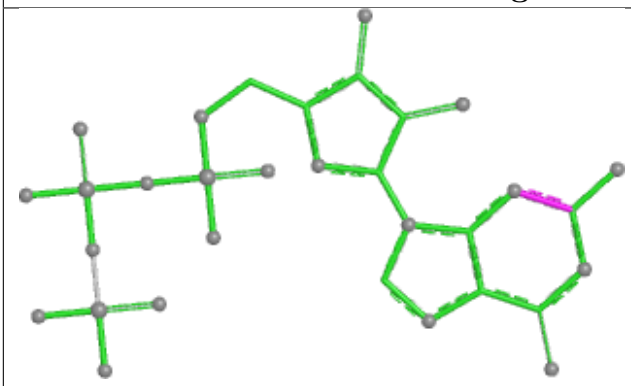


Rings

Ligand GTP EC 501



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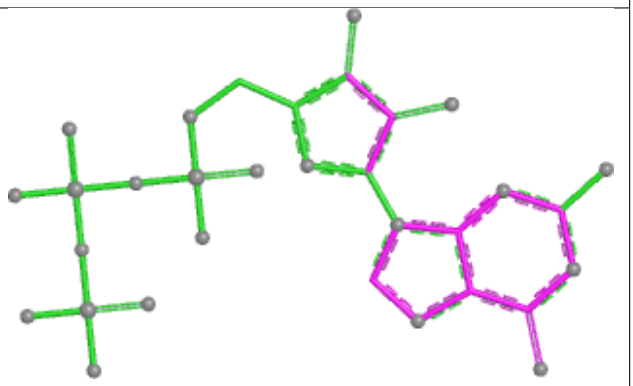
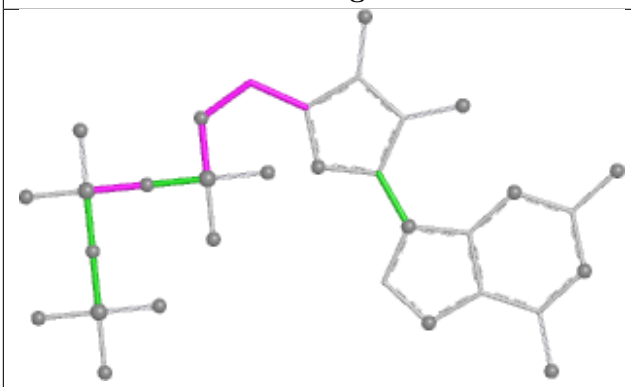


Bond angles



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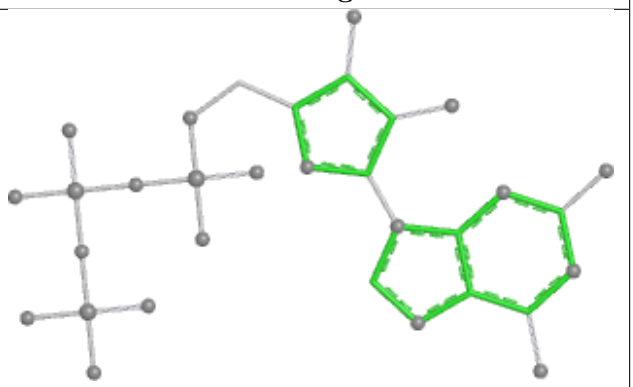
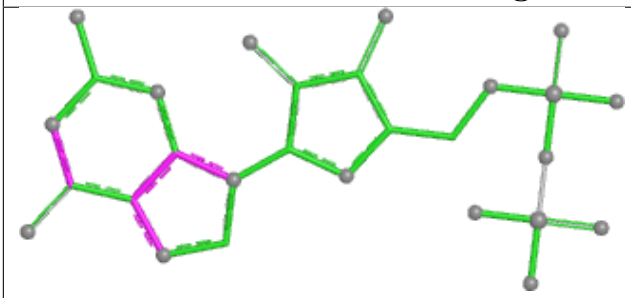
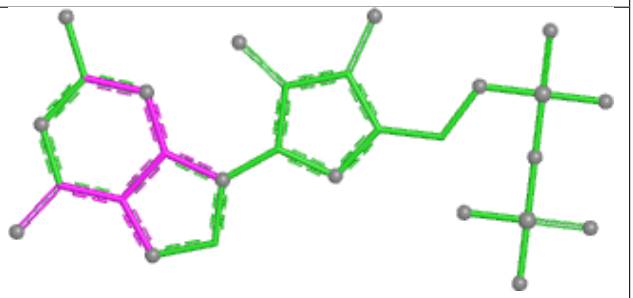


Rings

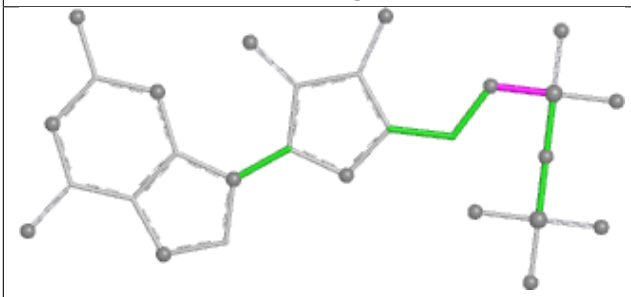
Ligand GDP LF 501



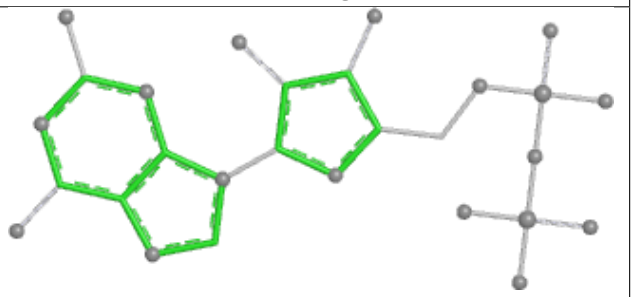
Bond lengths



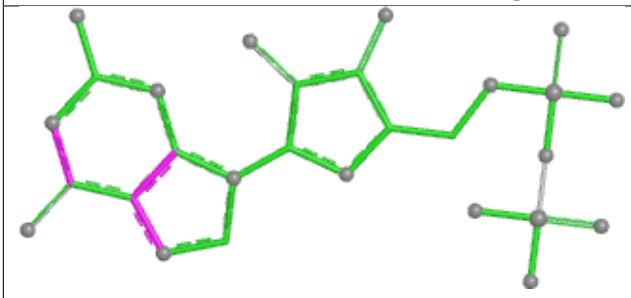
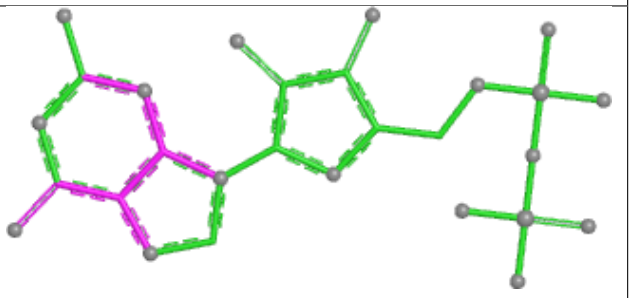
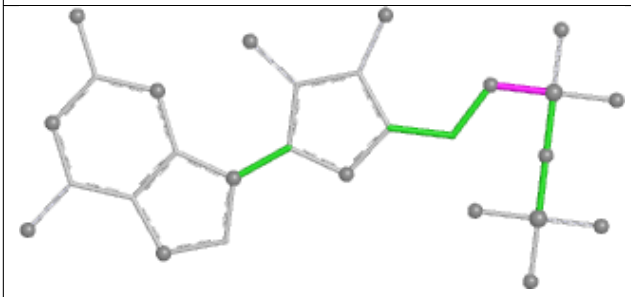
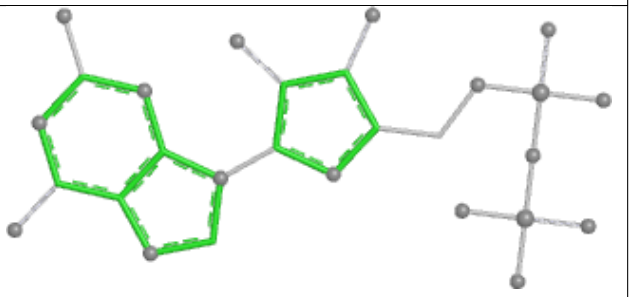
Bond angles



Torsions



Rings

Ligand GDP TH 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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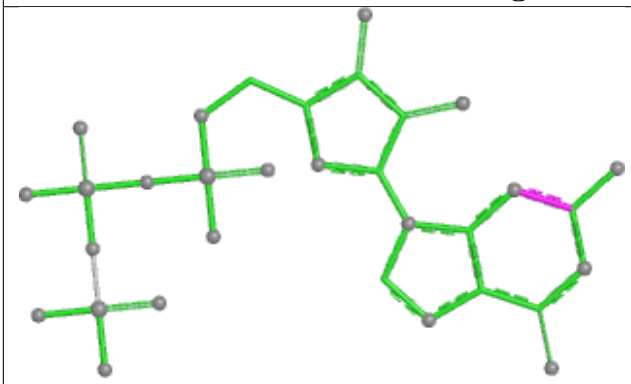
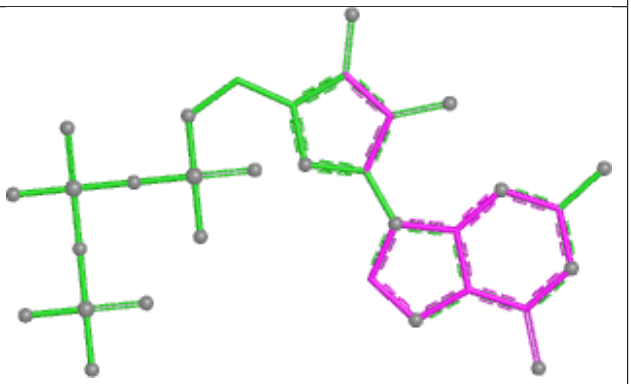
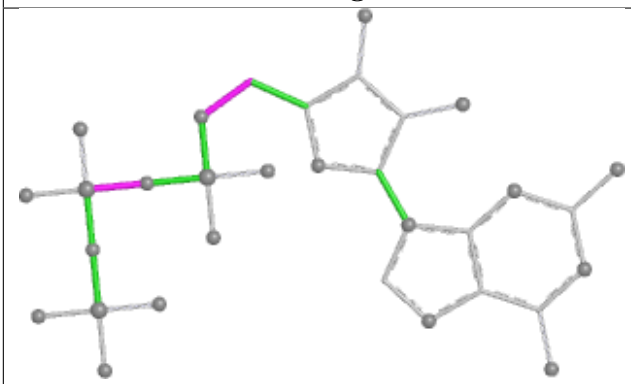
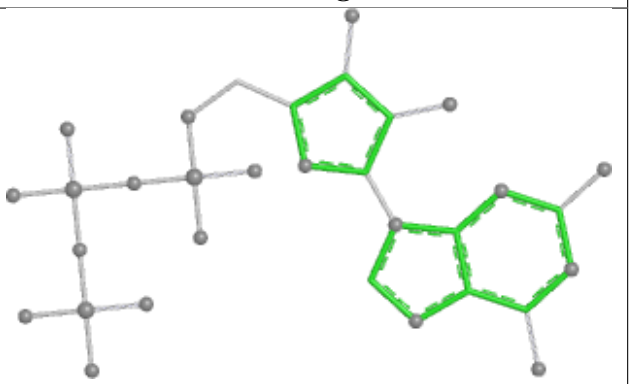
 Bond lengths	 Bond angles
 Torsions	 Rings

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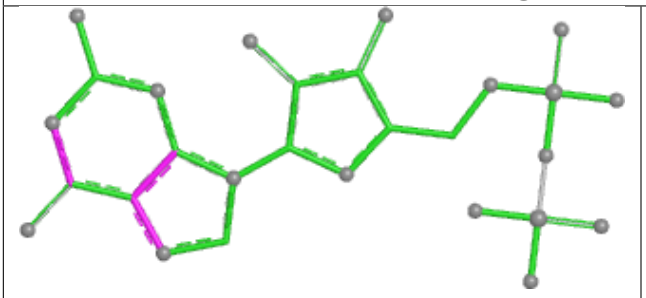

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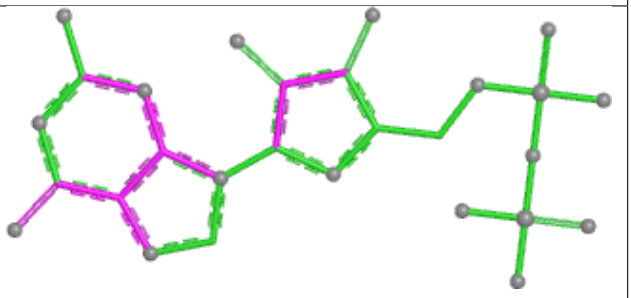

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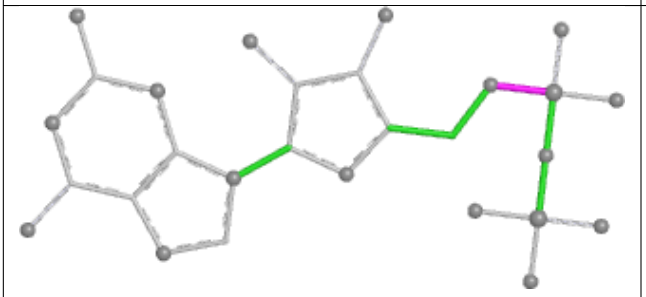

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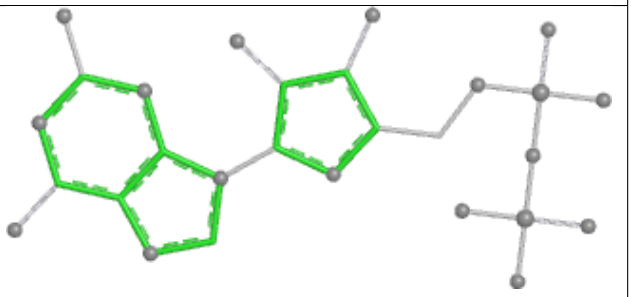

Rings

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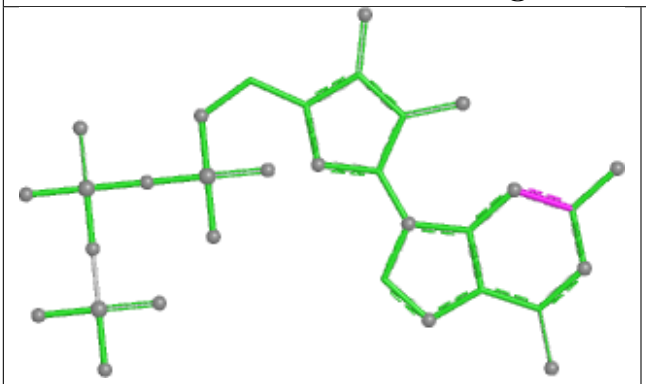

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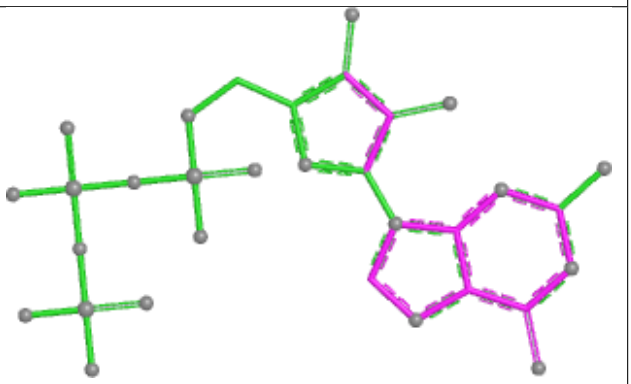

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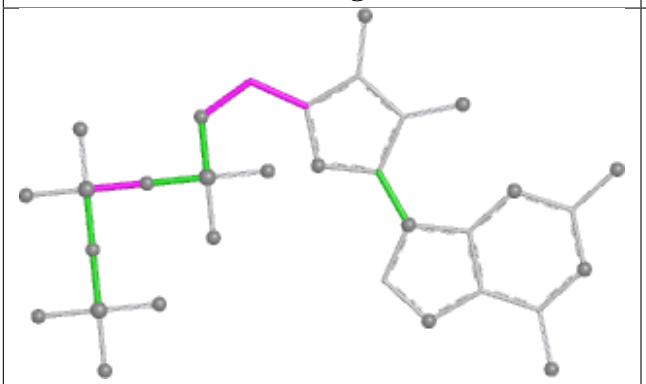

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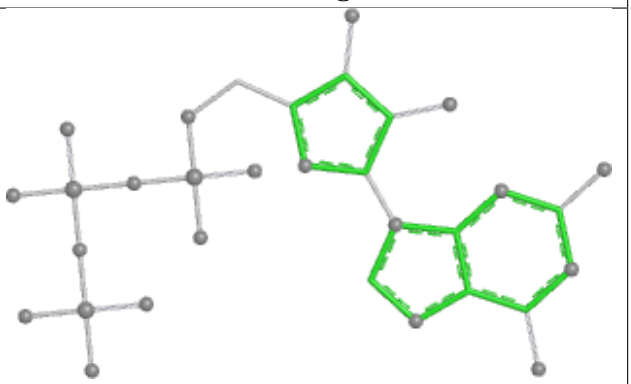

Rings

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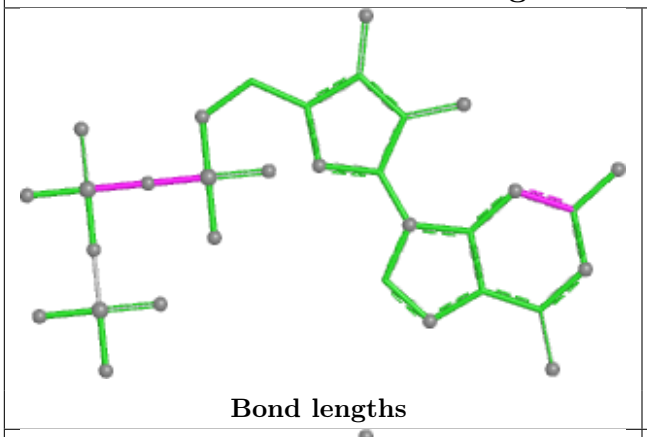

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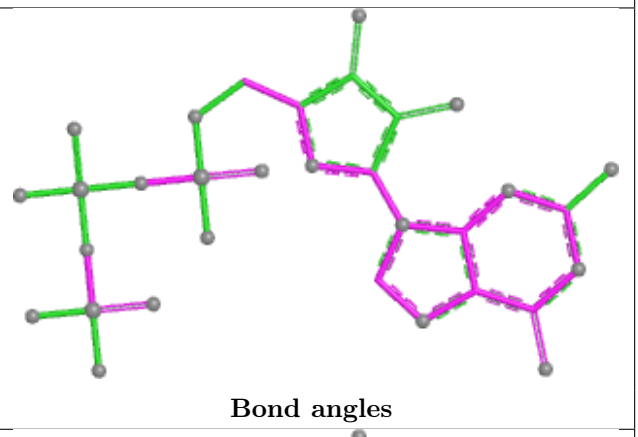

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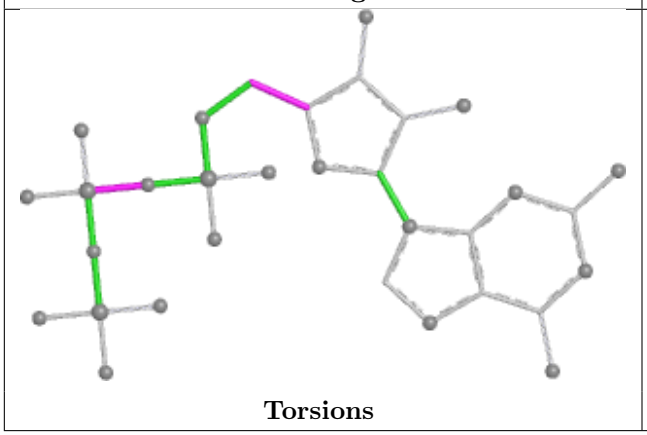

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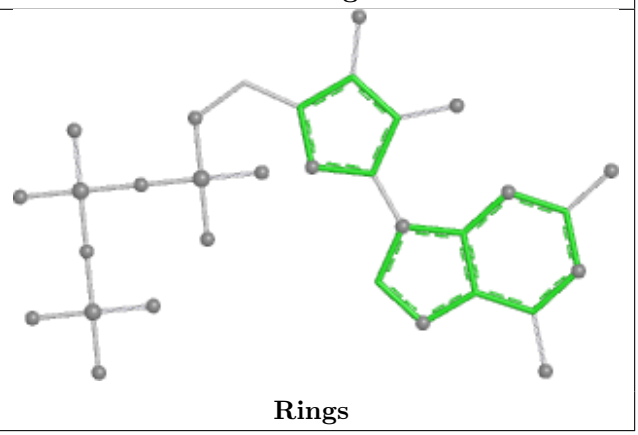

Rings

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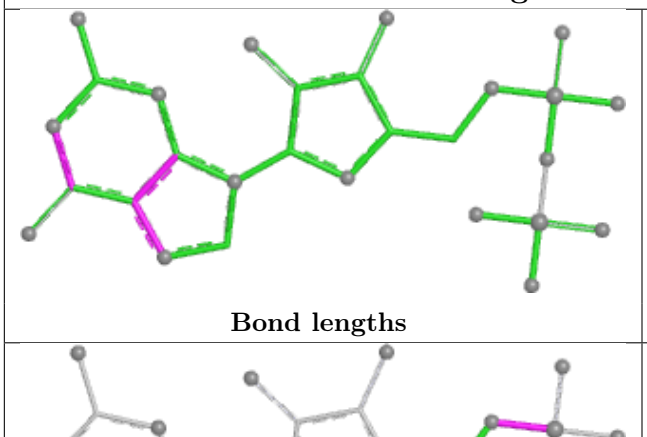

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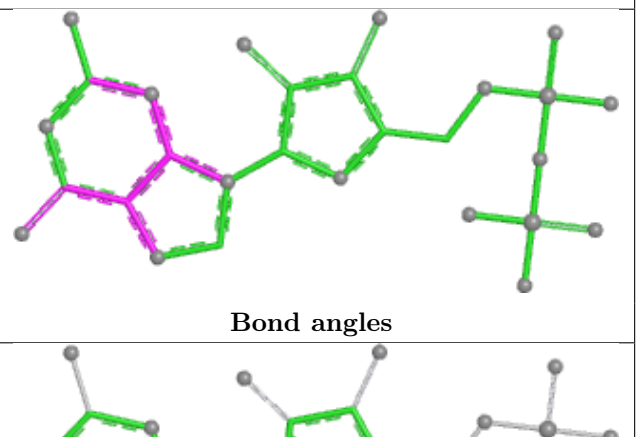

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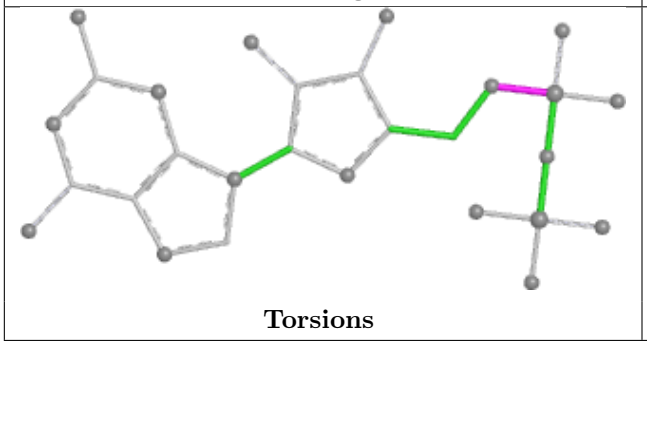

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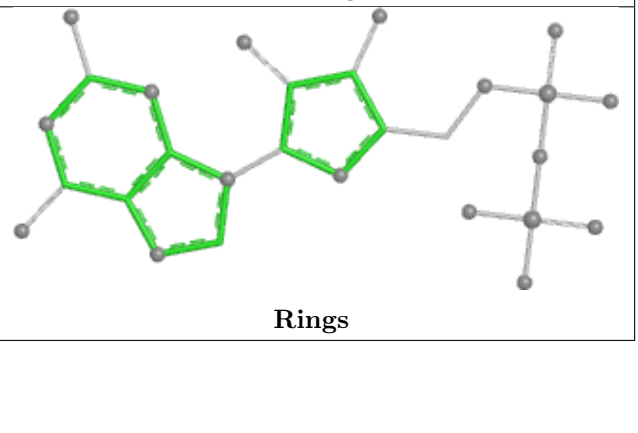

Rings

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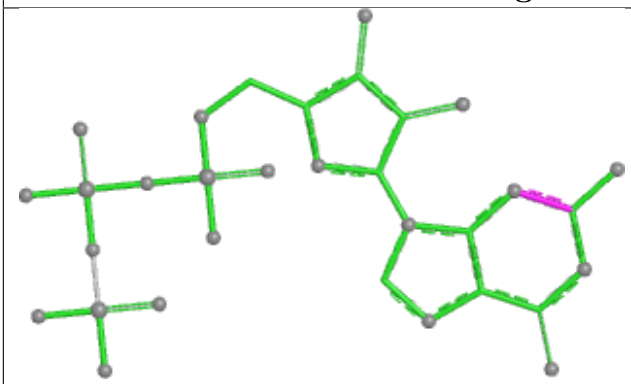

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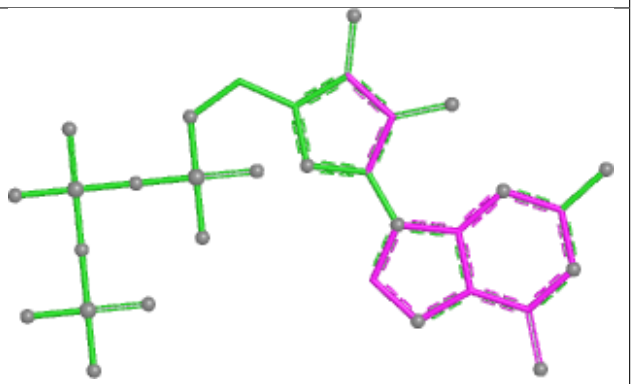

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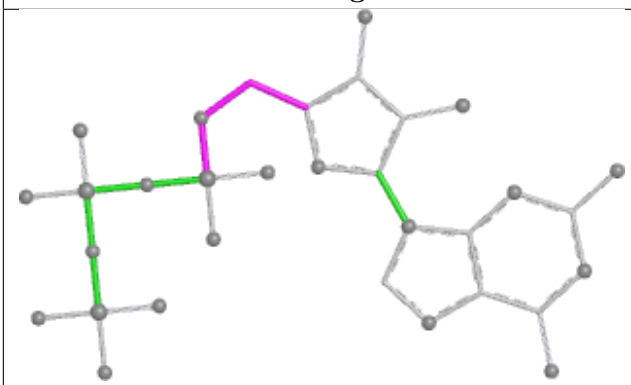

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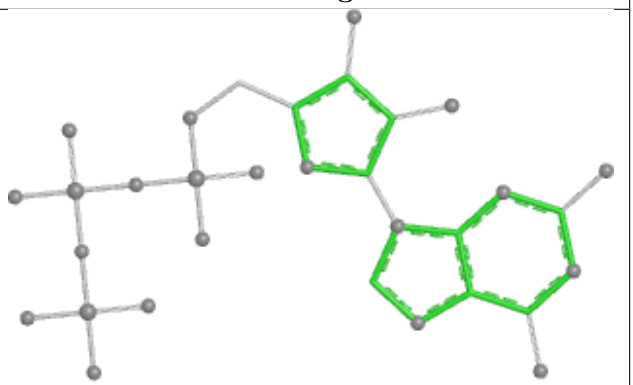

Rings

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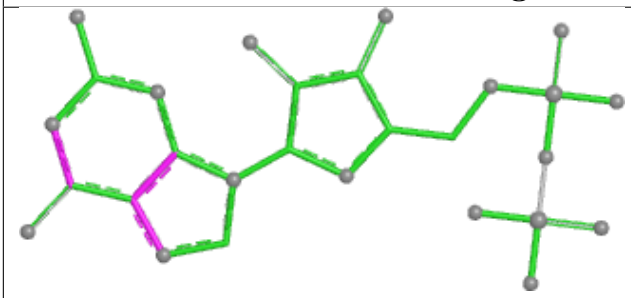

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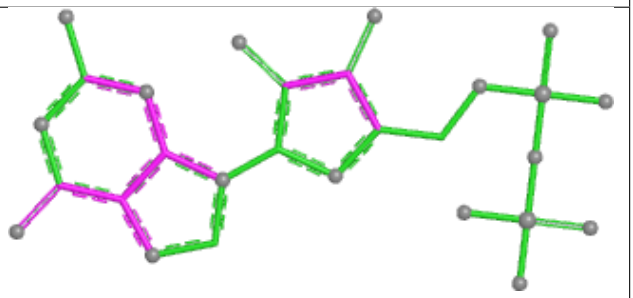

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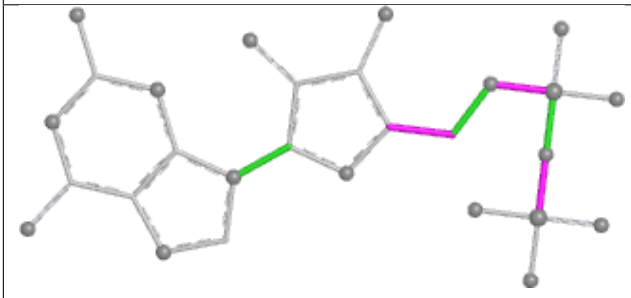

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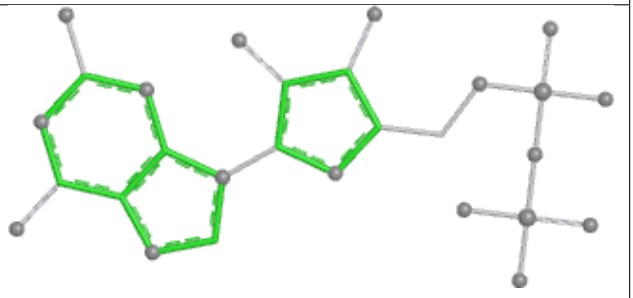

Rings

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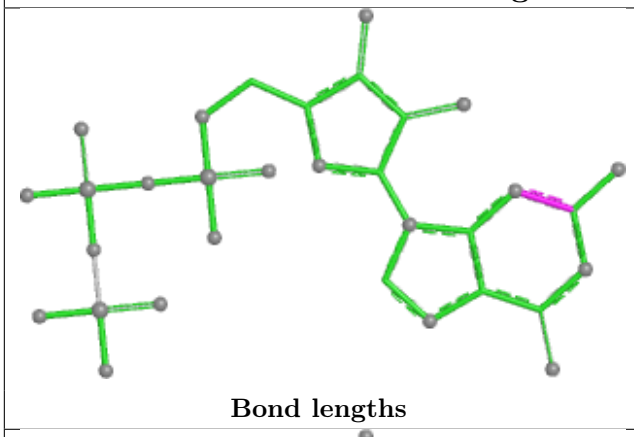

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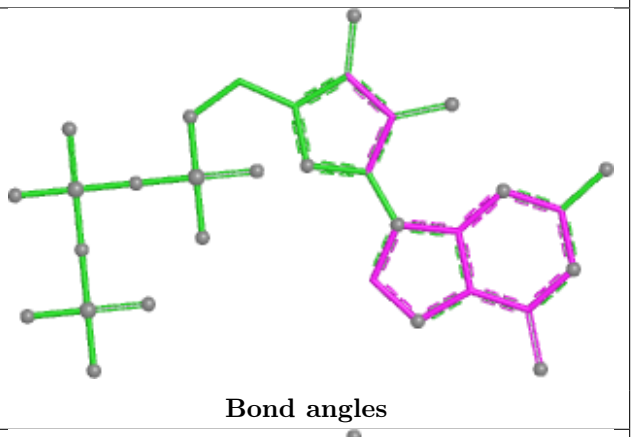

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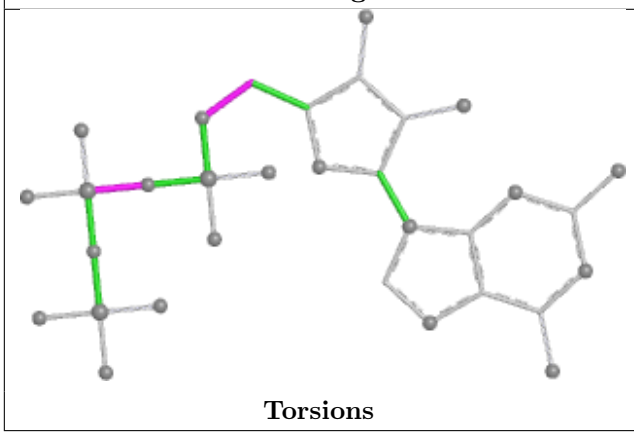

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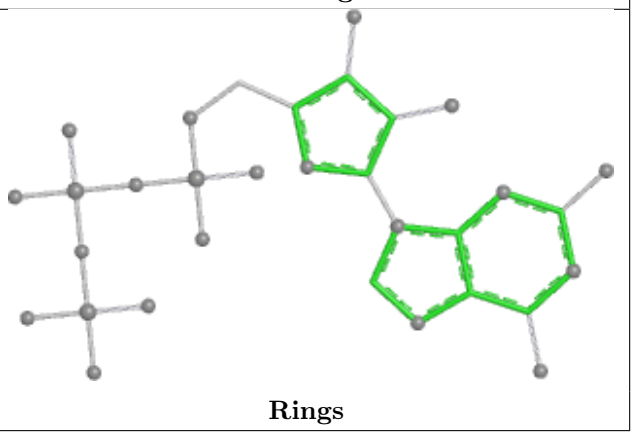

Rings

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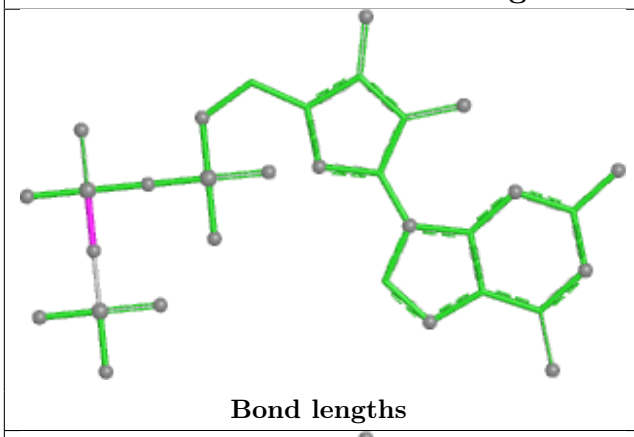

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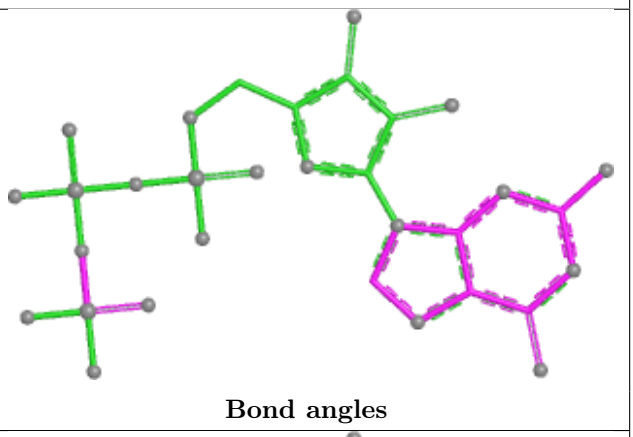

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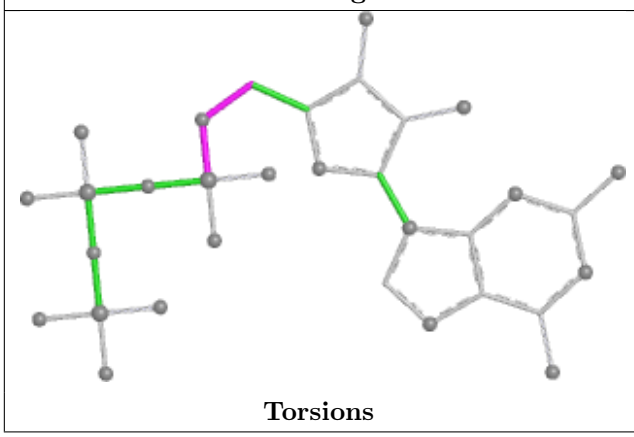

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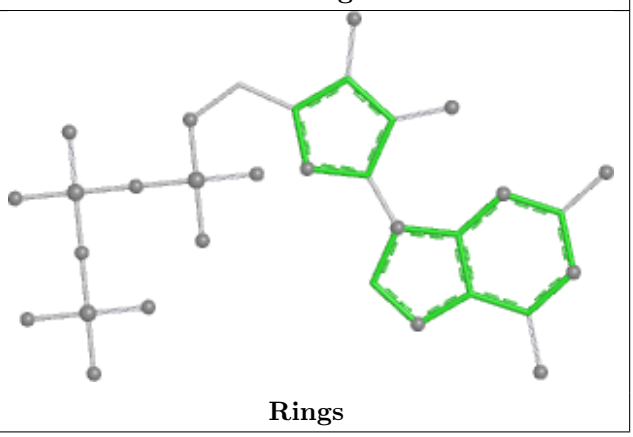
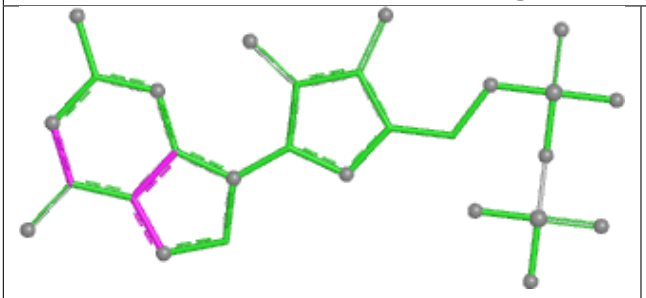


Rings

Ligand GDP VJ 501



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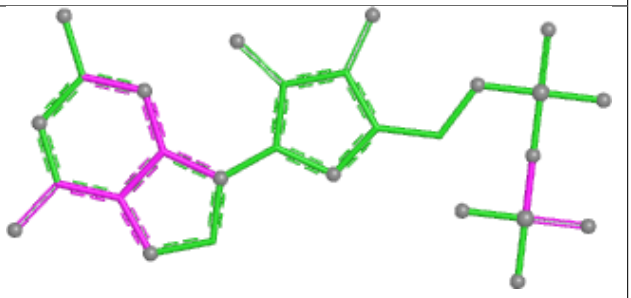

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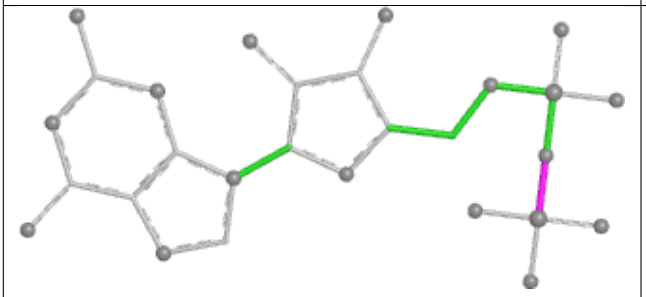

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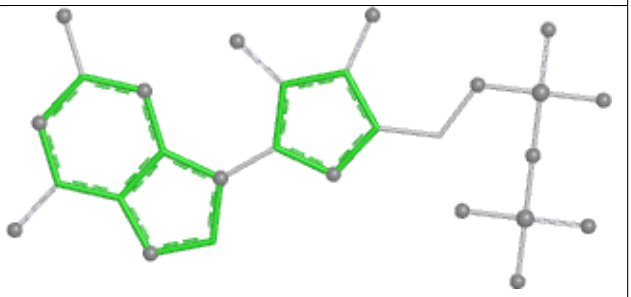

Rings

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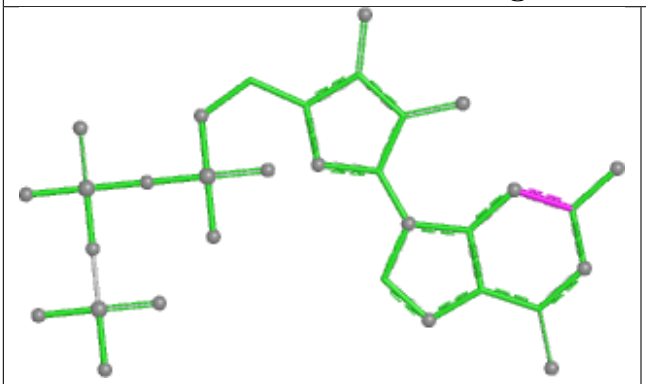

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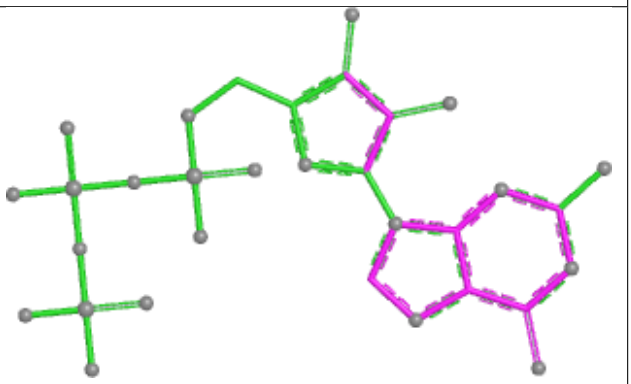

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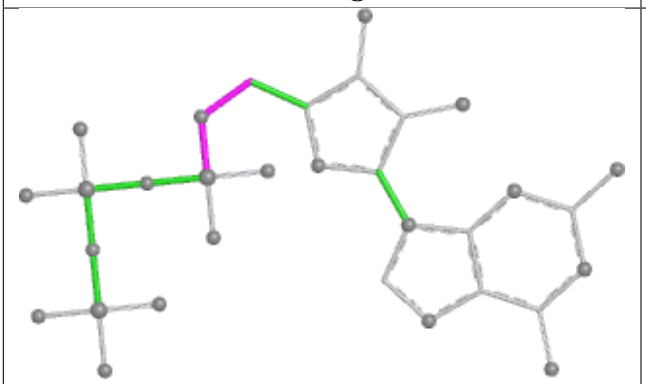

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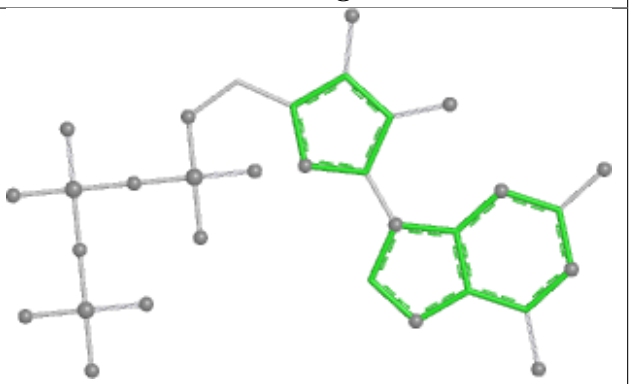
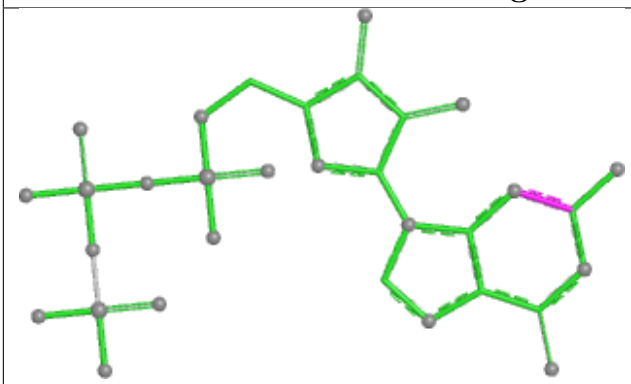


Rings

Ligand GTP TC 501



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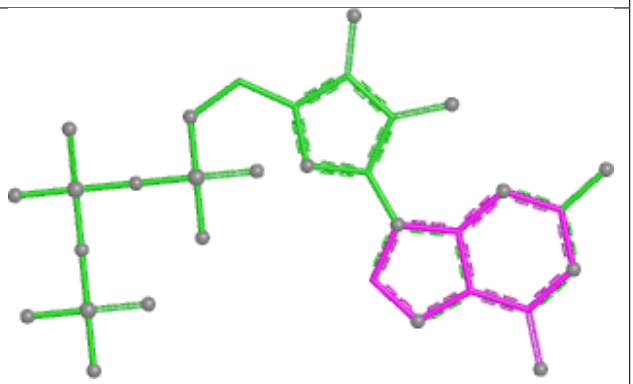
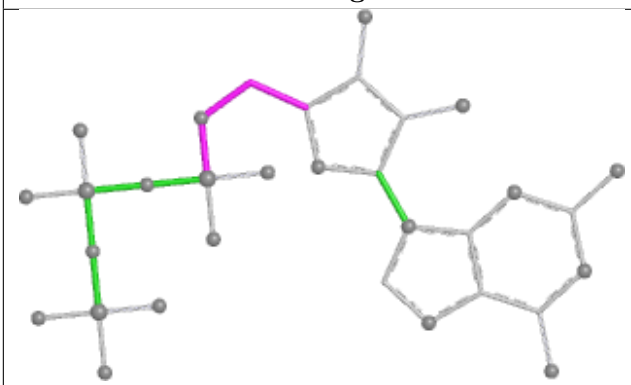


Bond angles



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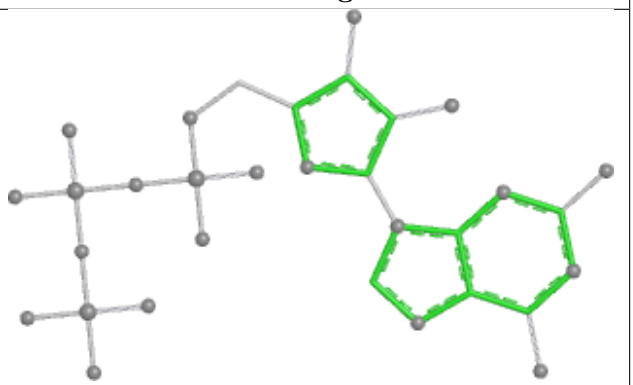
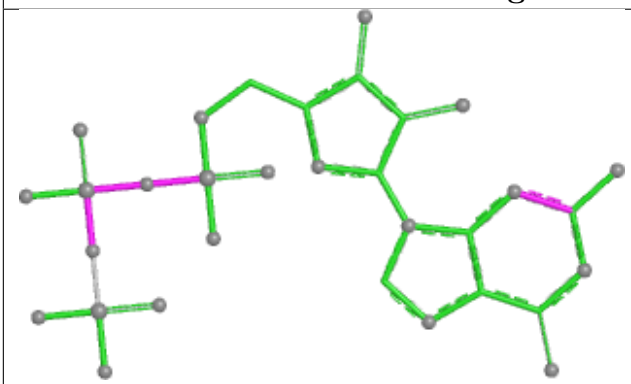


Rings

Ligand GTP NK 501



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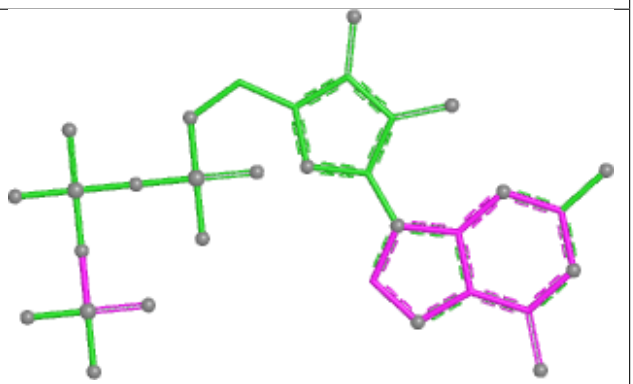

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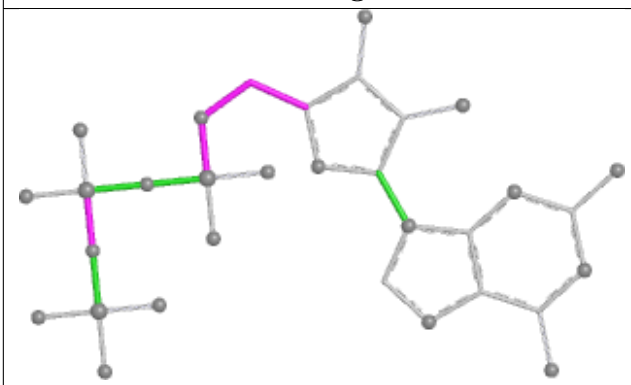
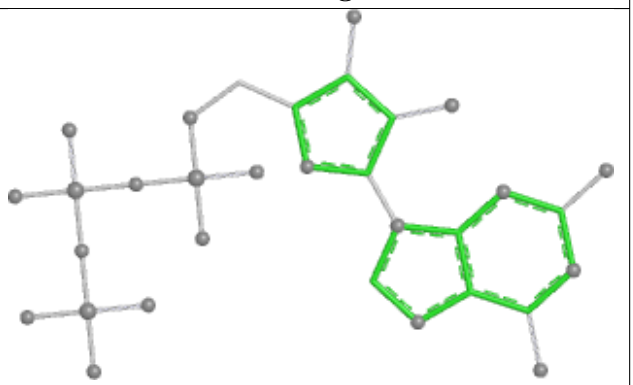
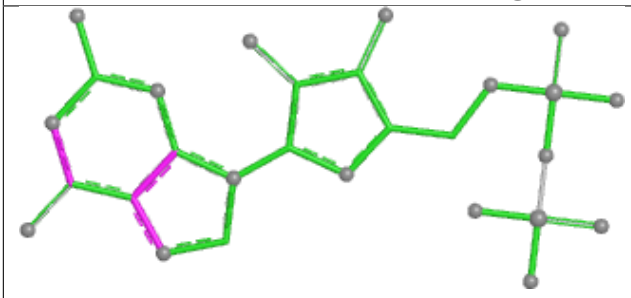


Torsions



Rings

Ligand GDP FH 501



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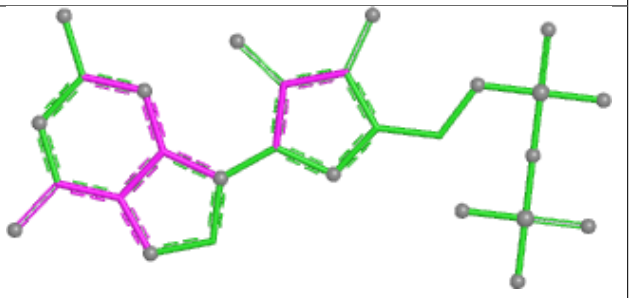

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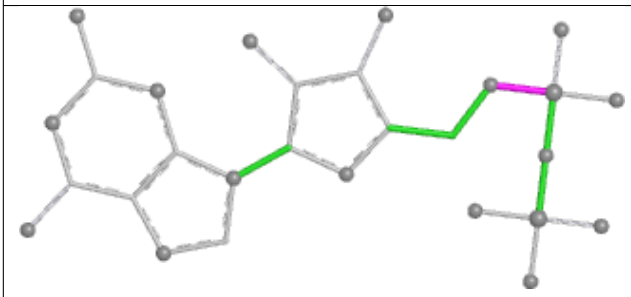

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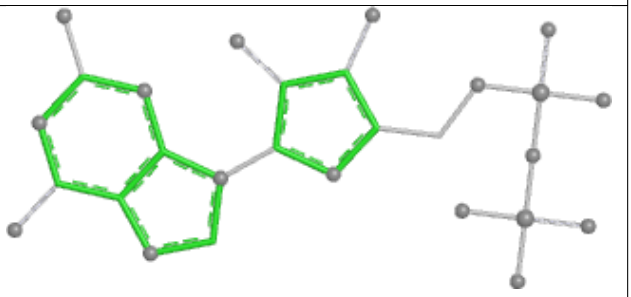
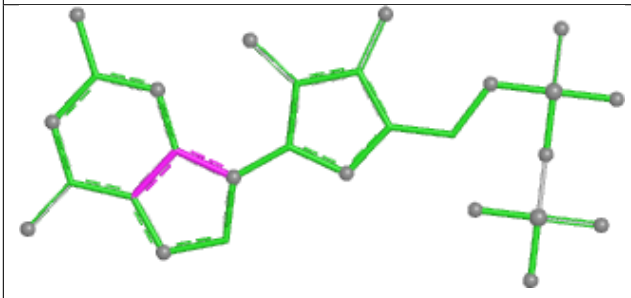


Rings

Ligand GDP PB 501



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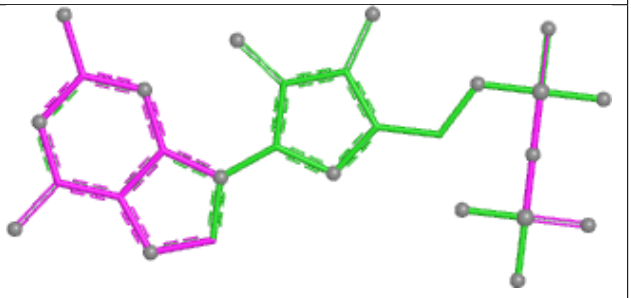

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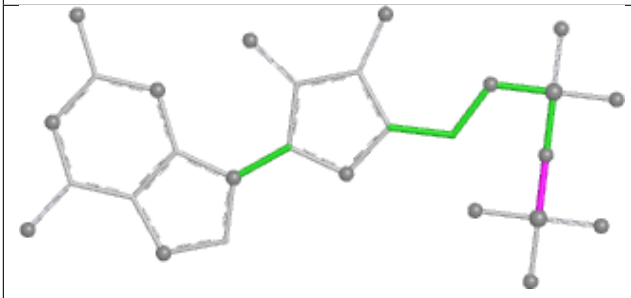

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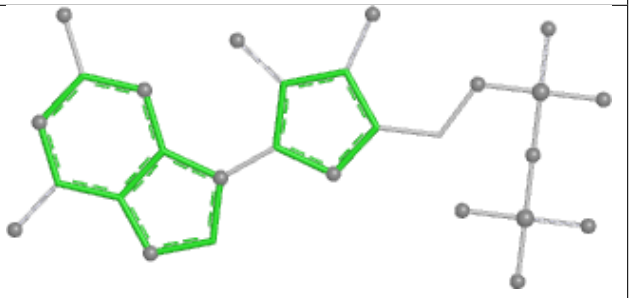
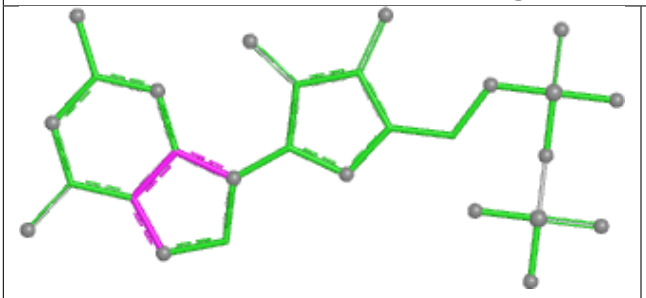


Rings

Ligand GDP OF 501



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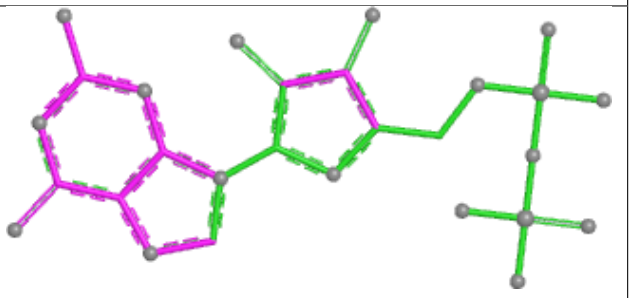

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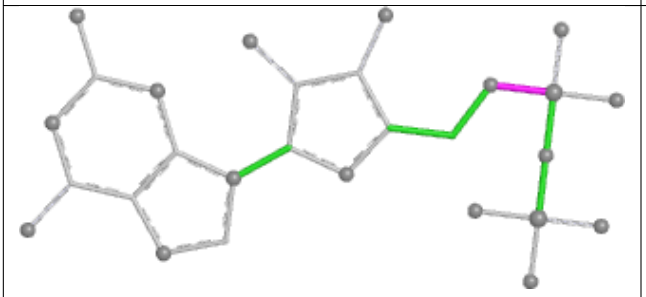

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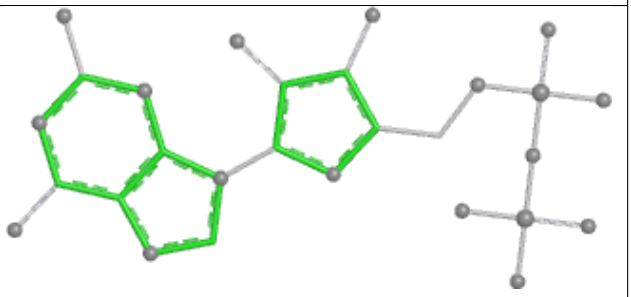

Rings

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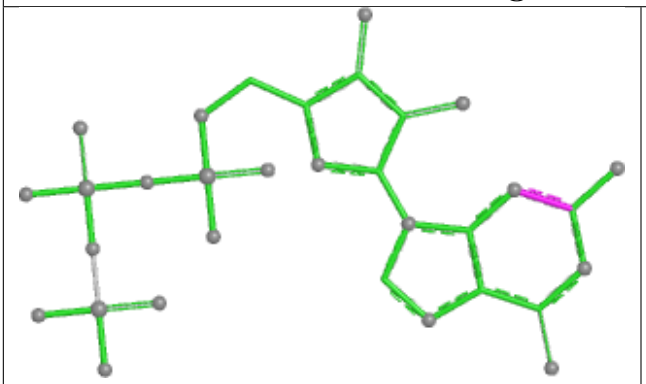

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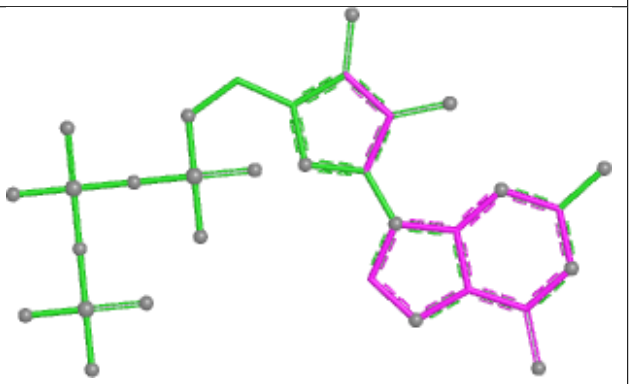

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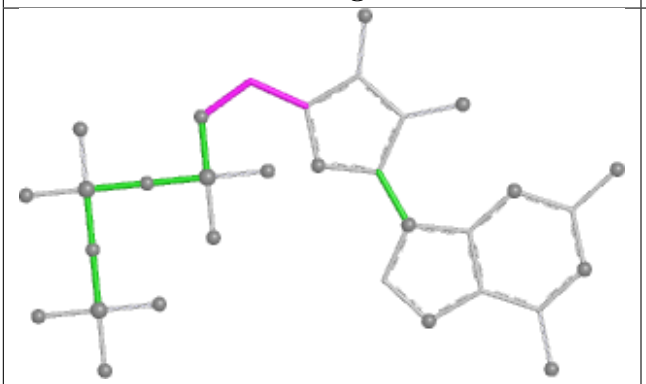

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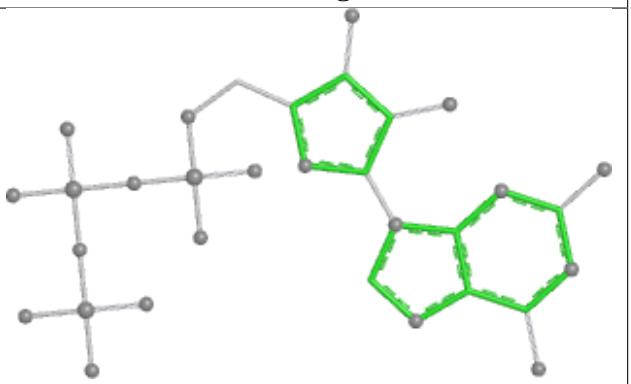

Rings

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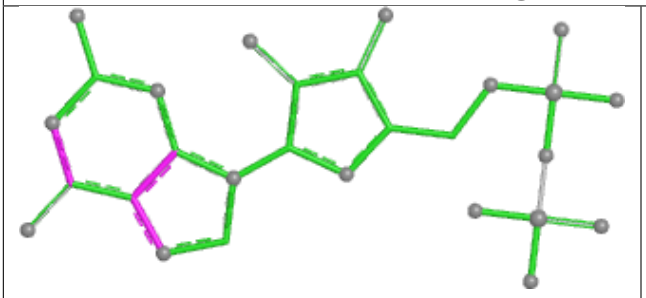

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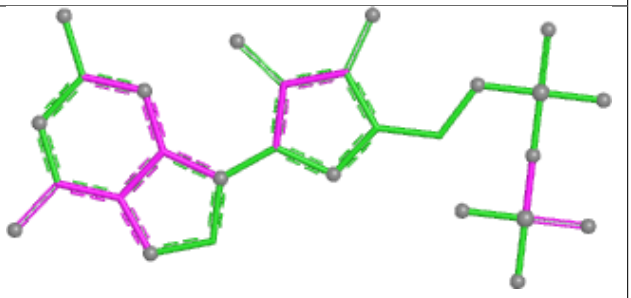

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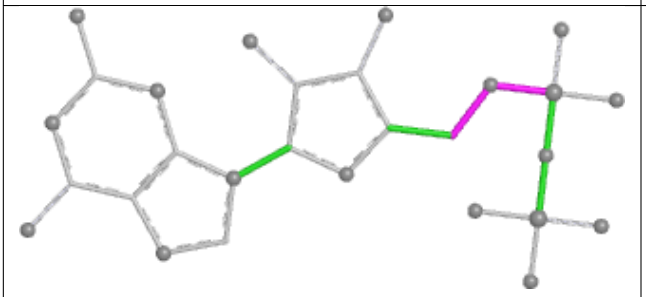

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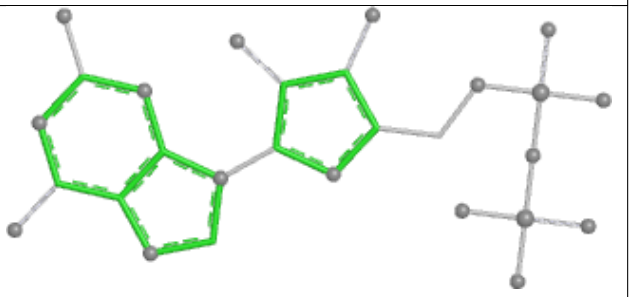

Rings

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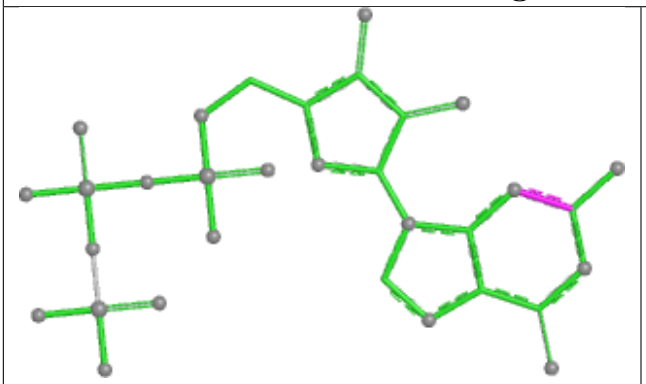

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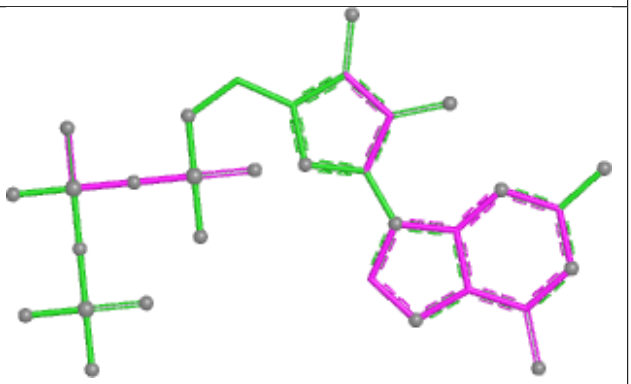

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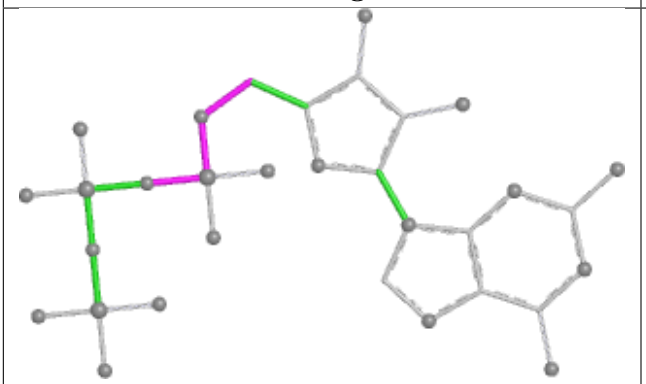

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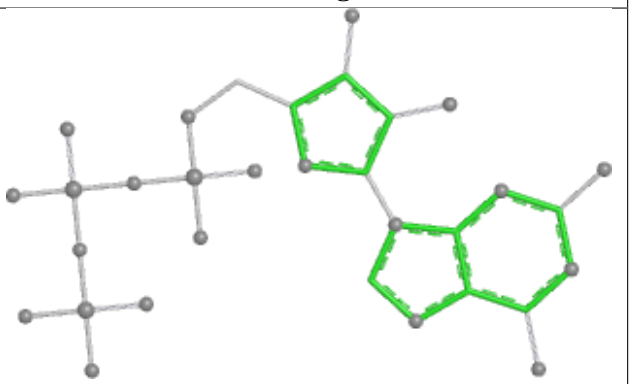

Rings

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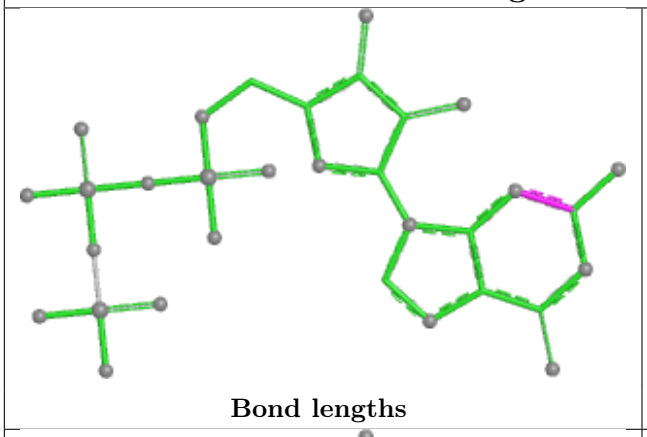

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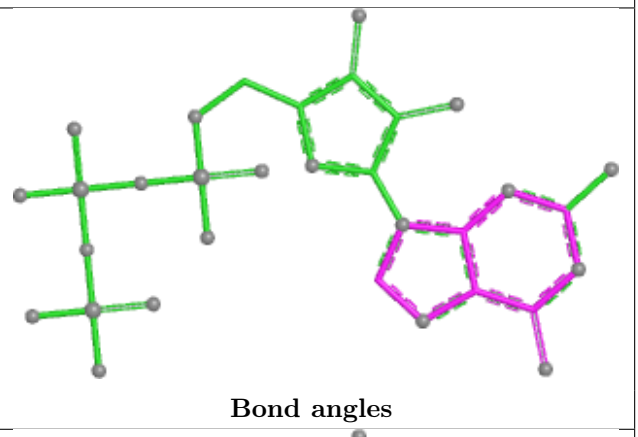

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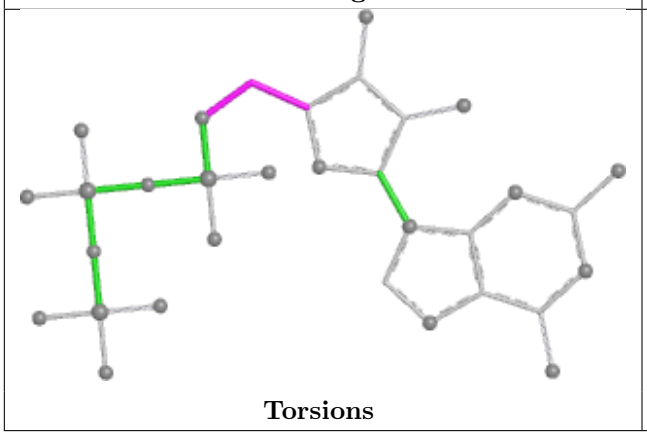

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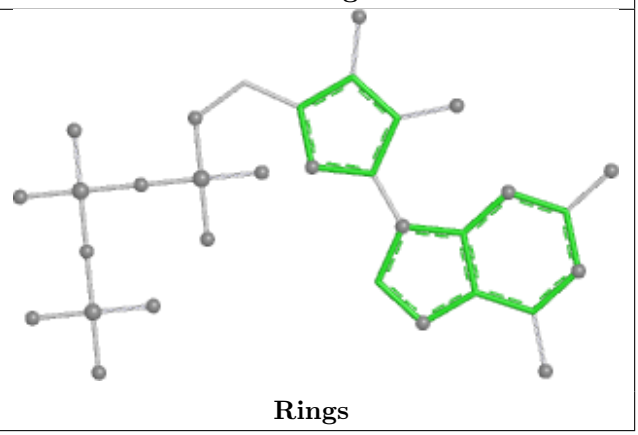

Rings

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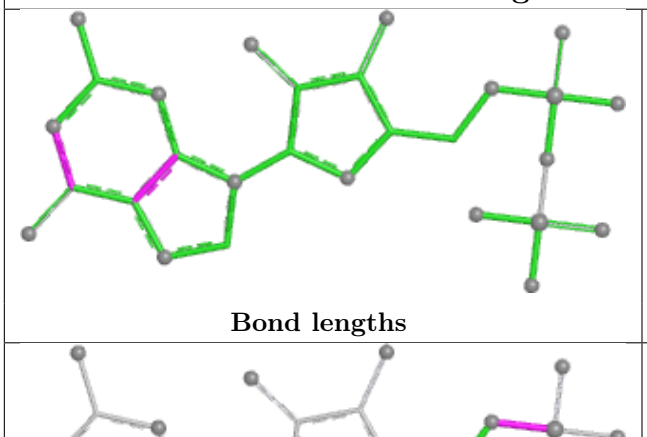

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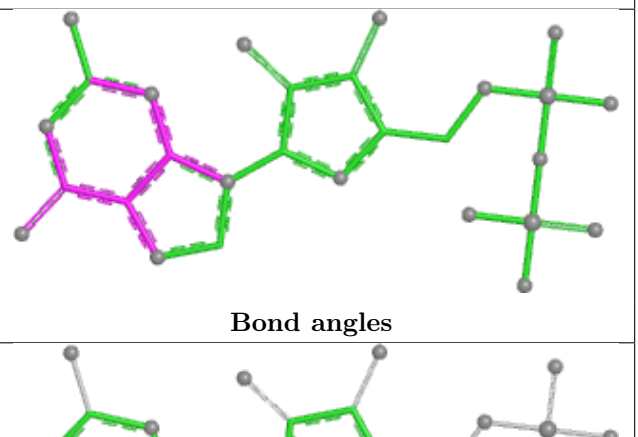

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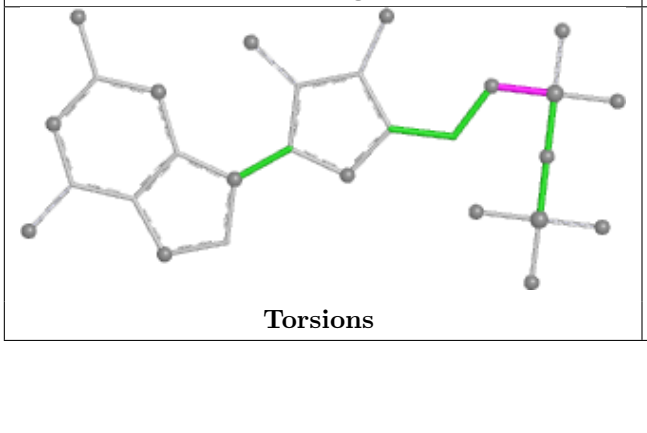

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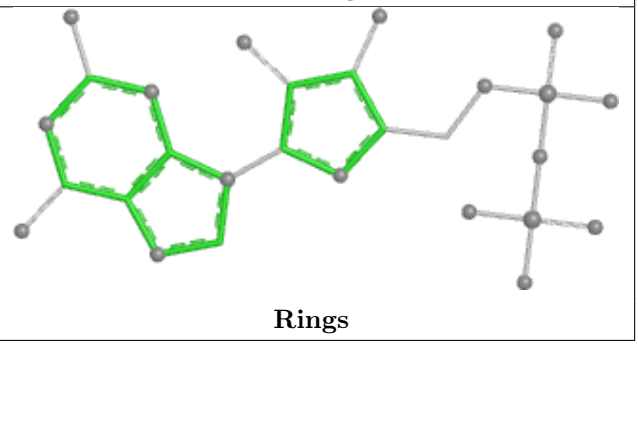

Rings

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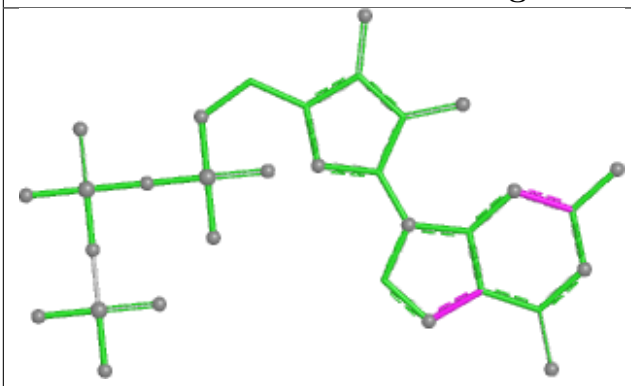

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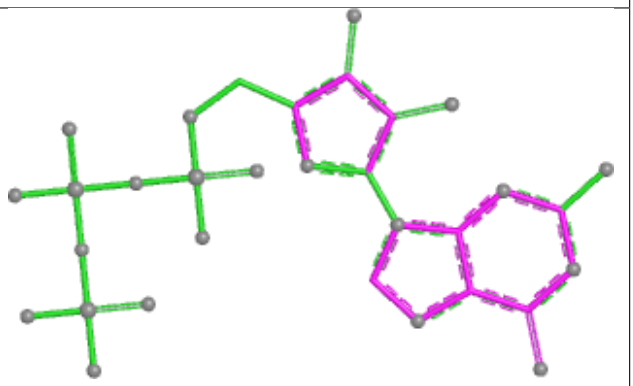

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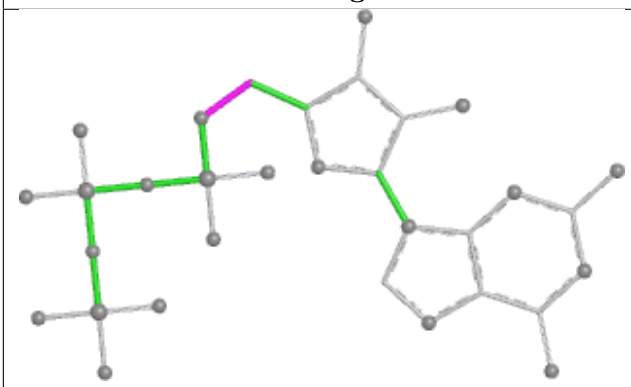

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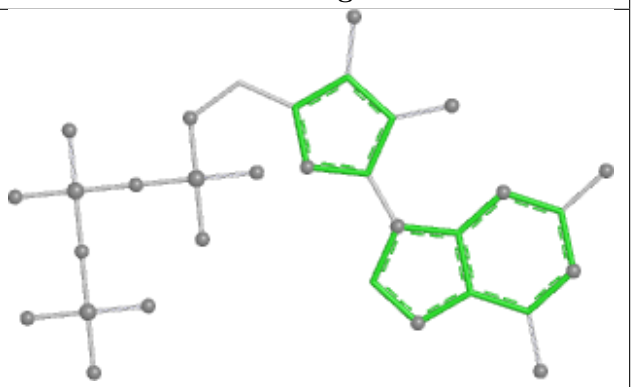

Rings

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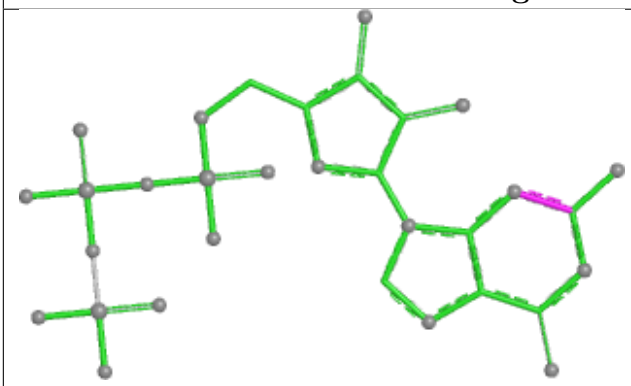

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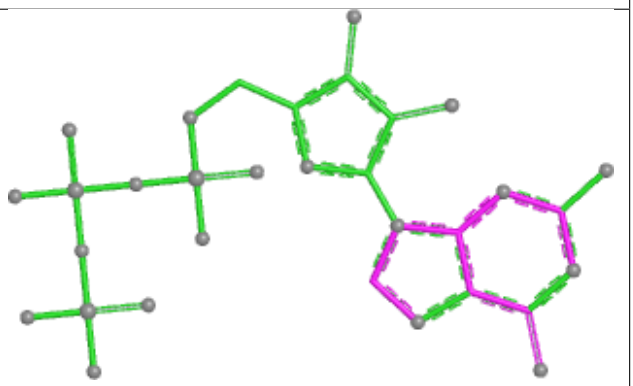

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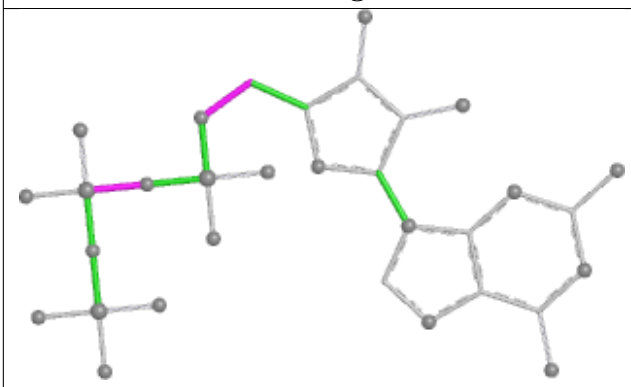

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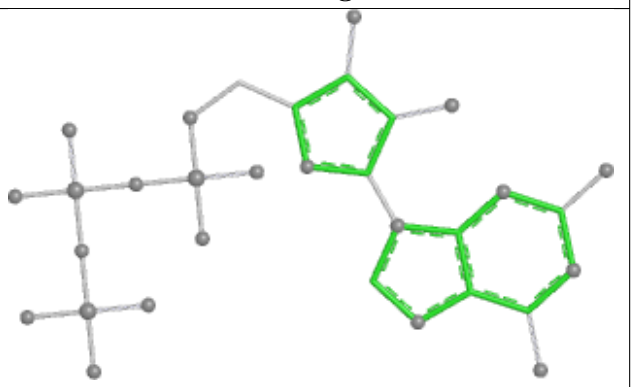

Rings

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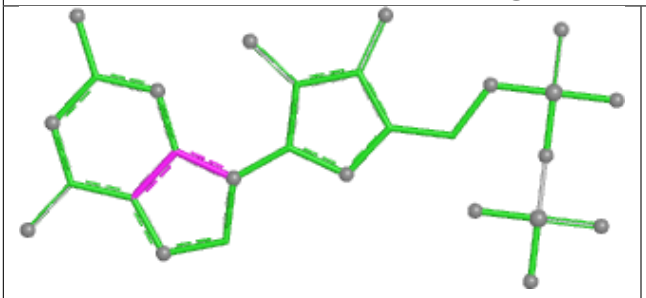

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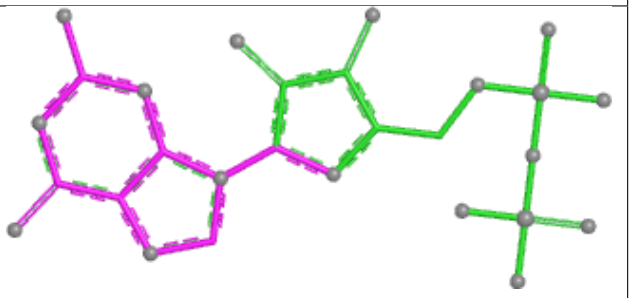

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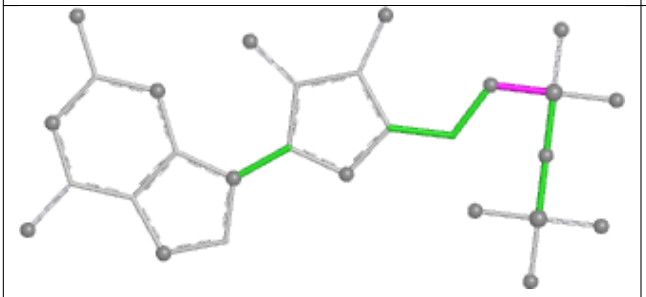

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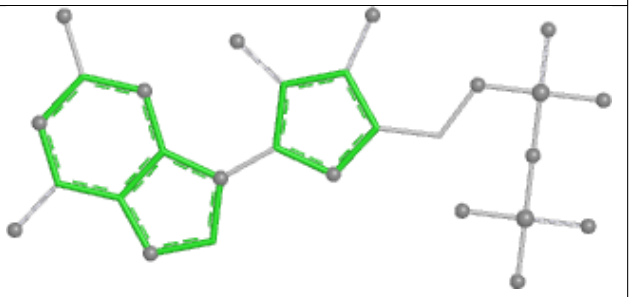
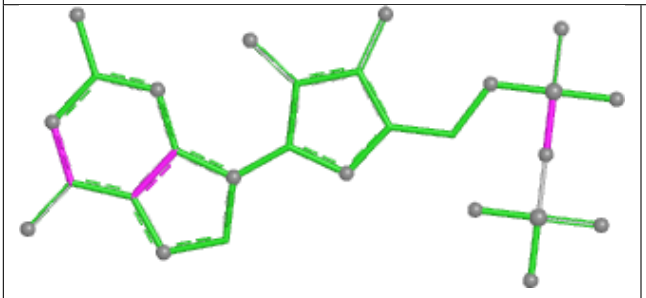


Rings

Ligand GDP BB 501



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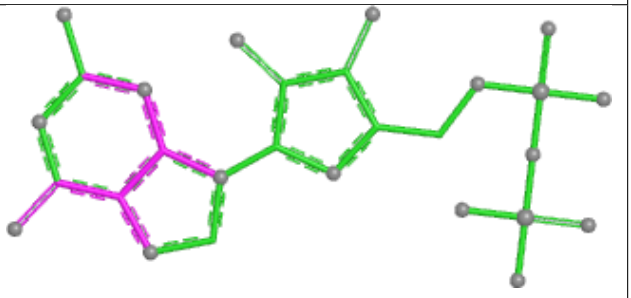

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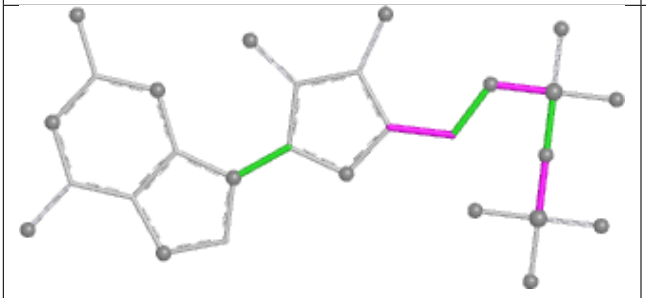

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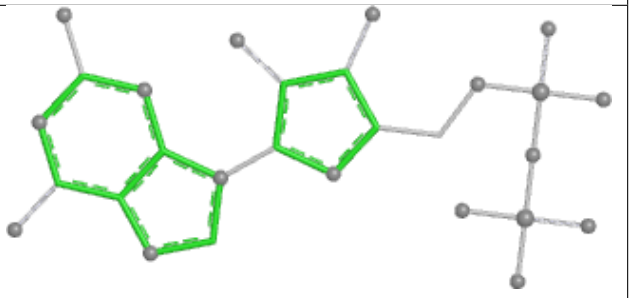
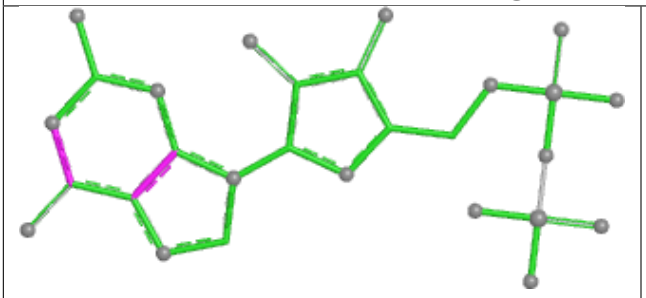


Rings

Ligand GDP MJ 501



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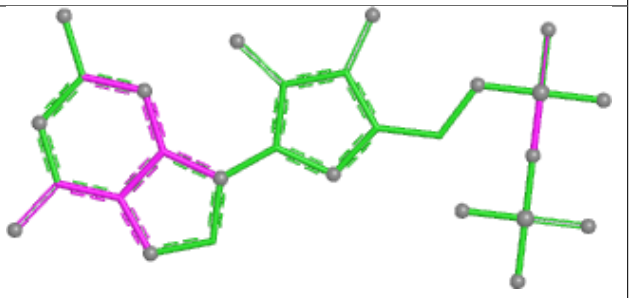

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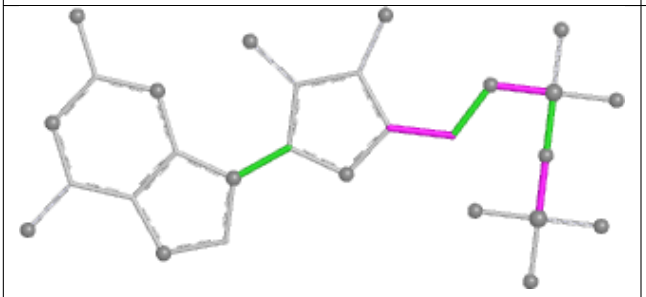

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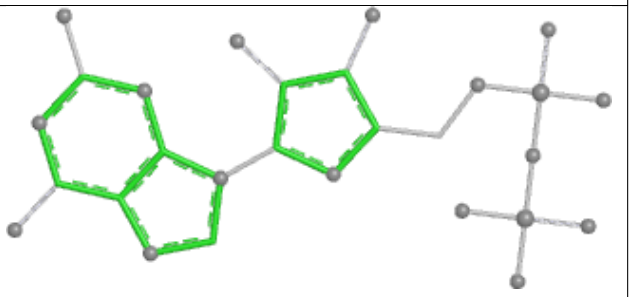
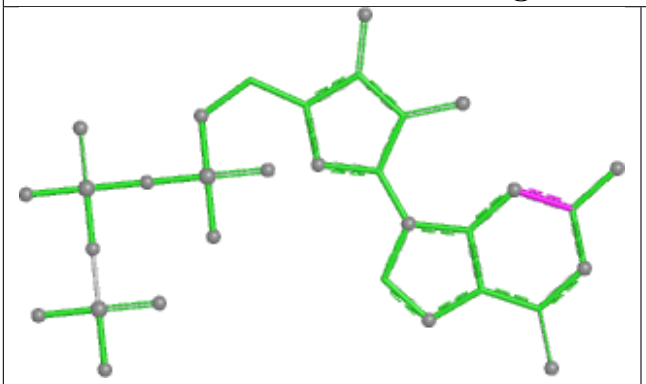


Rings

Ligand GTP JG 501



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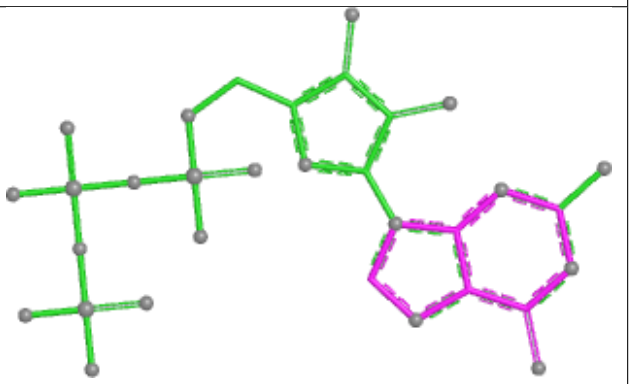

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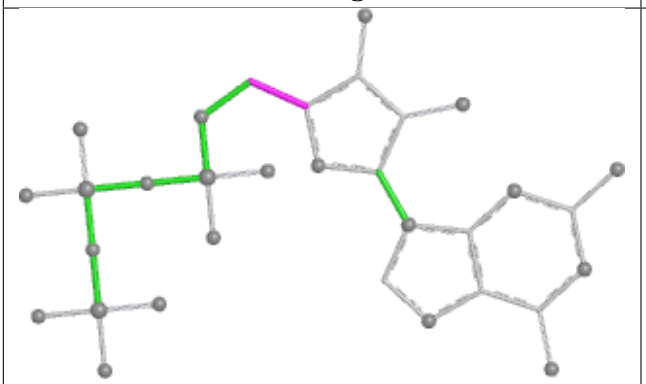
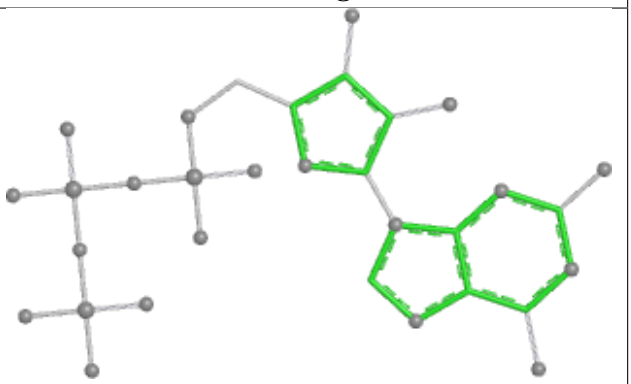
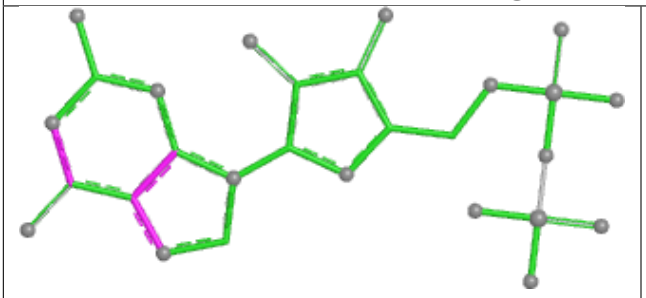


Torsions



Rings

Ligand GDP RB 501



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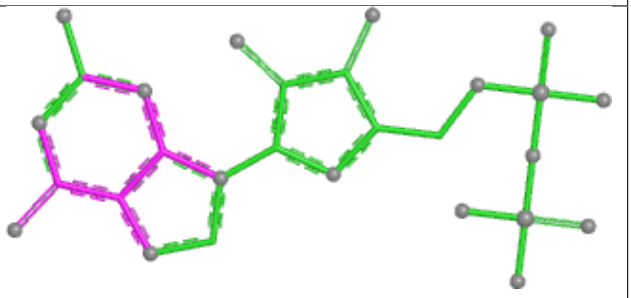

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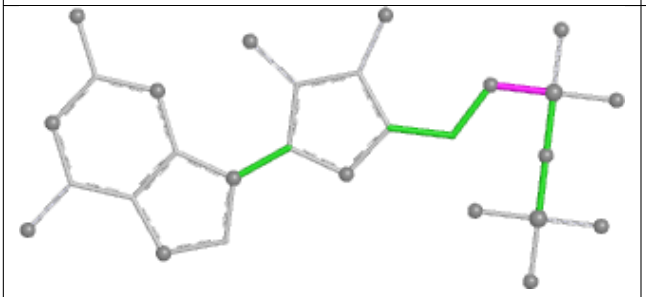

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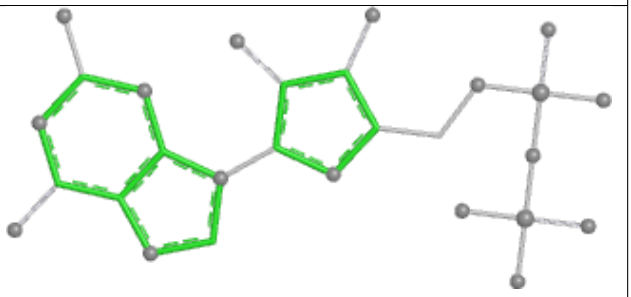
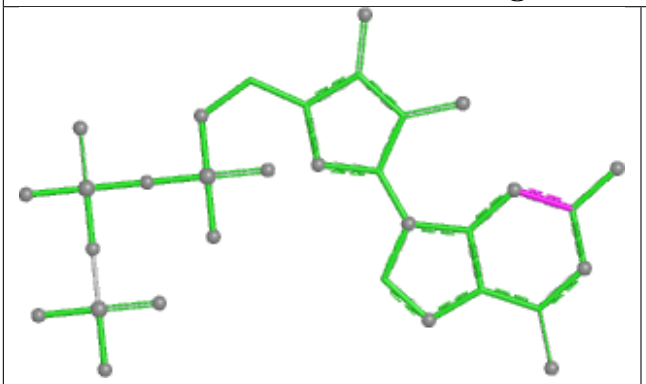


Rings

Ligand GTP SM 501



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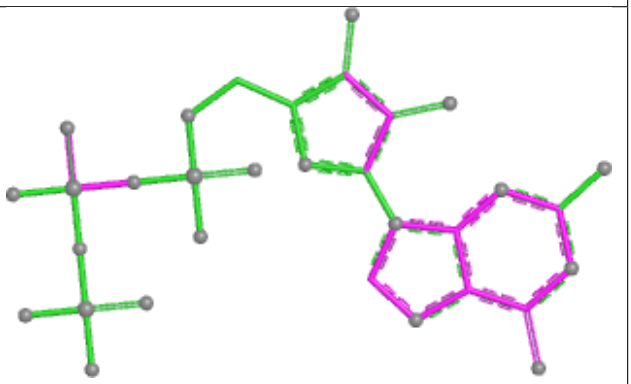

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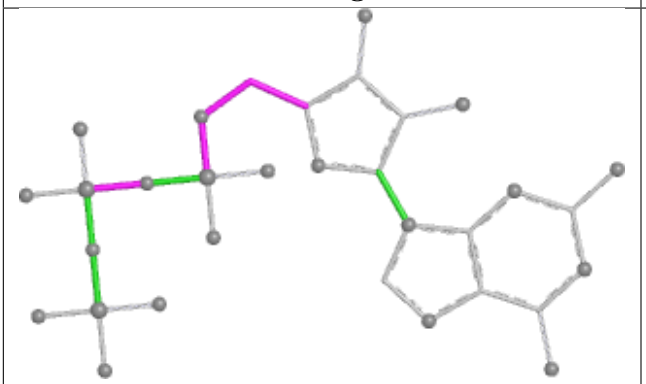

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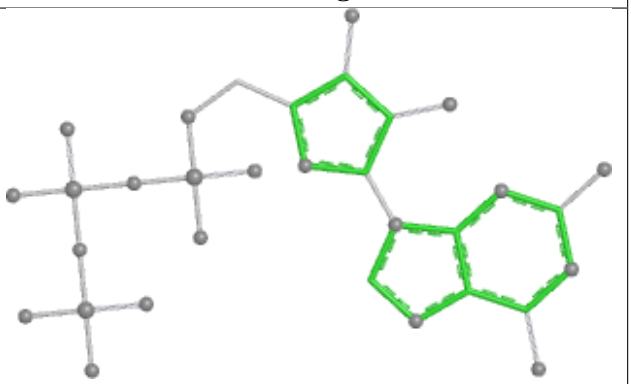
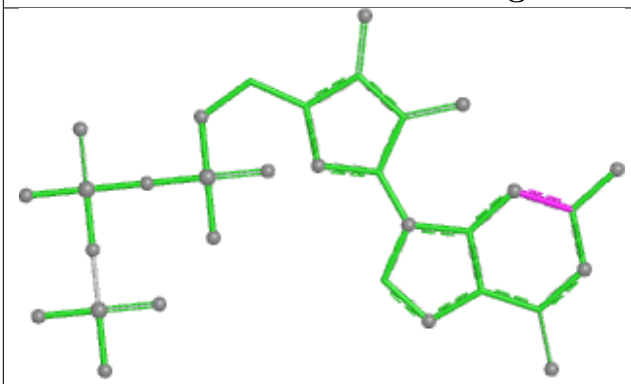


Rings

Ligand GTP OK 501



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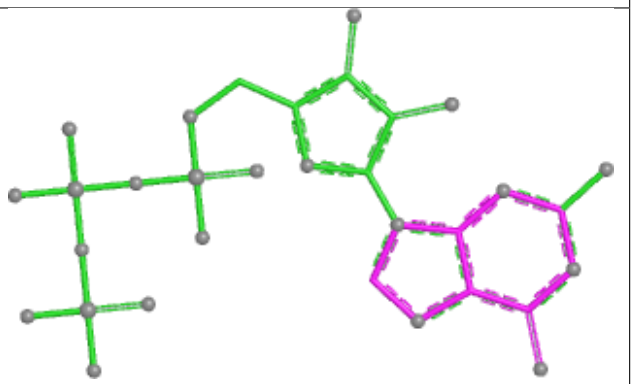

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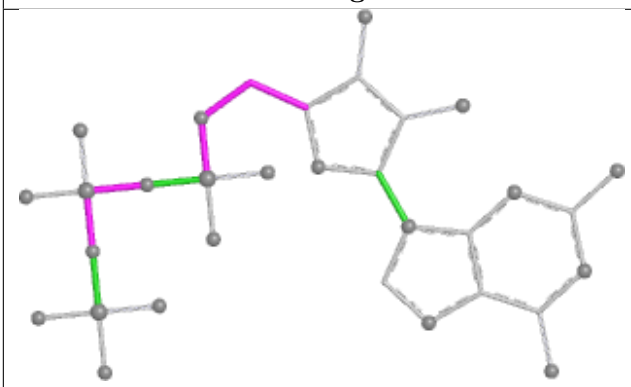

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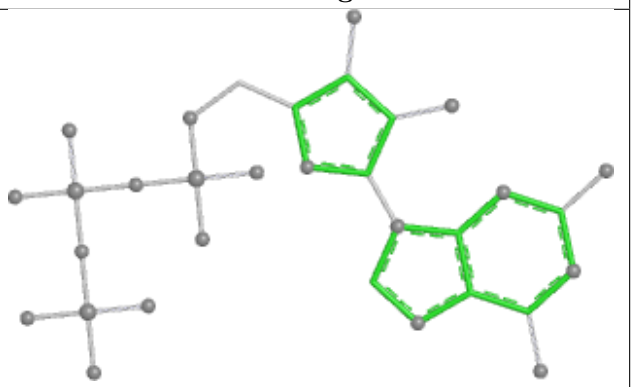

Rings

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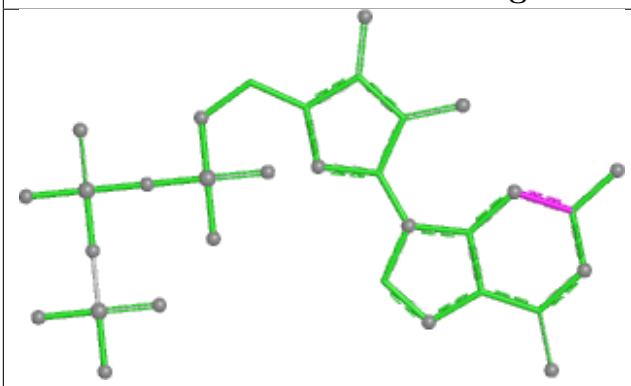

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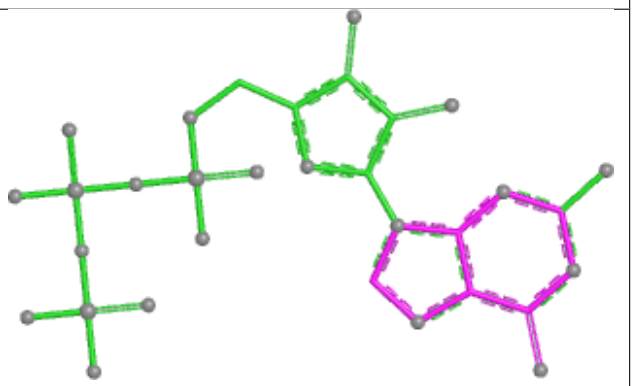

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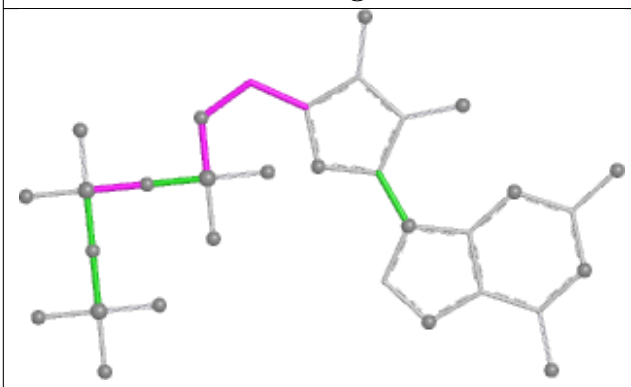

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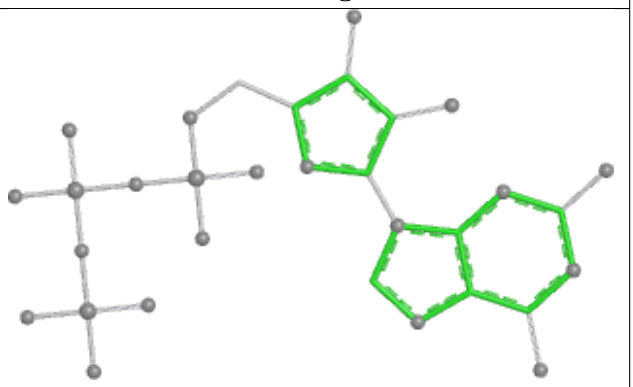

Rings

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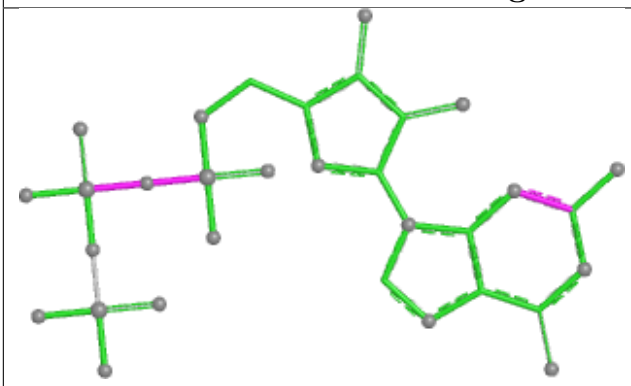

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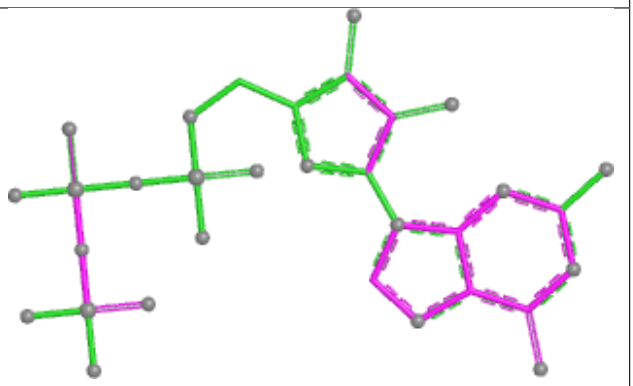

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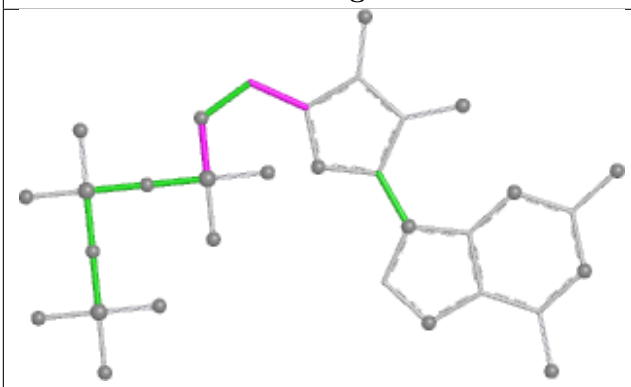

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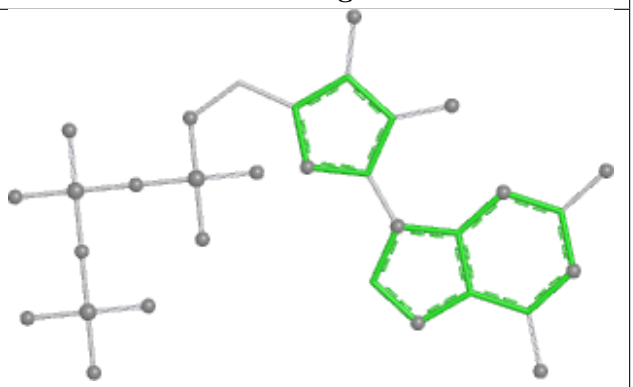

Rings

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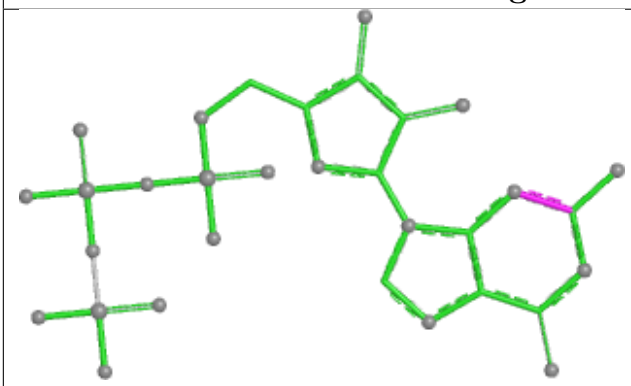

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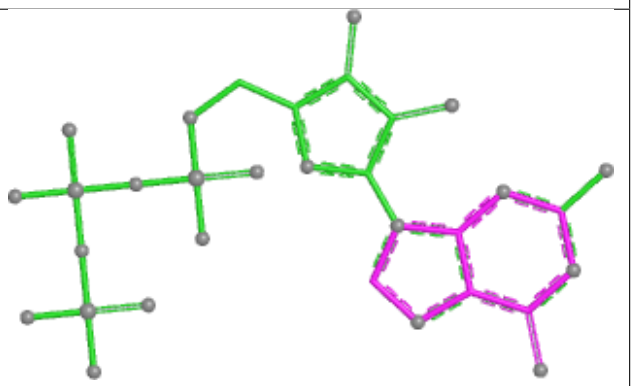

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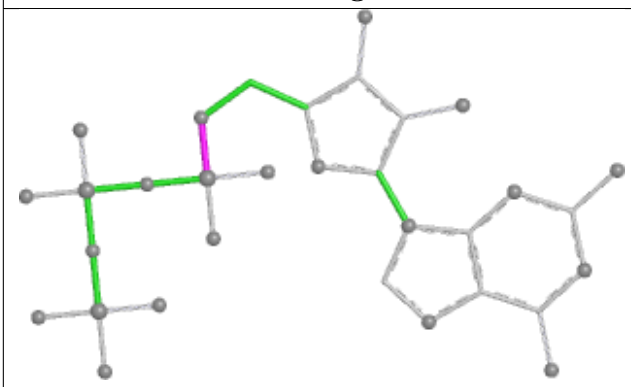

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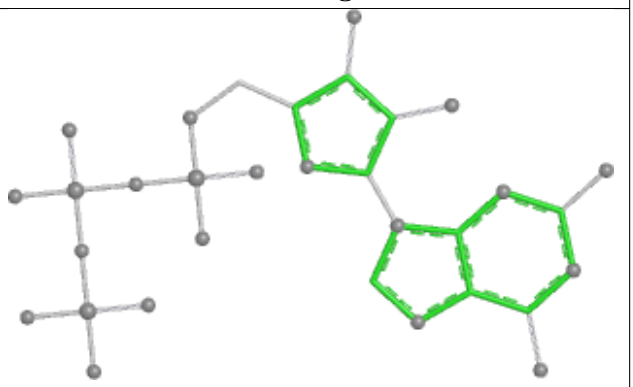
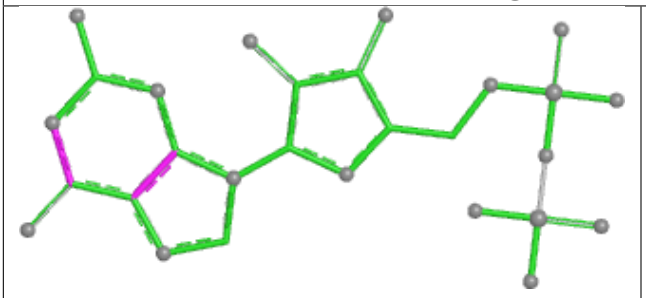


Rings

Ligand GDP HH 501



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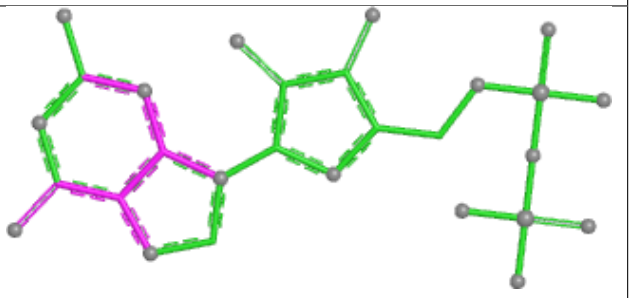

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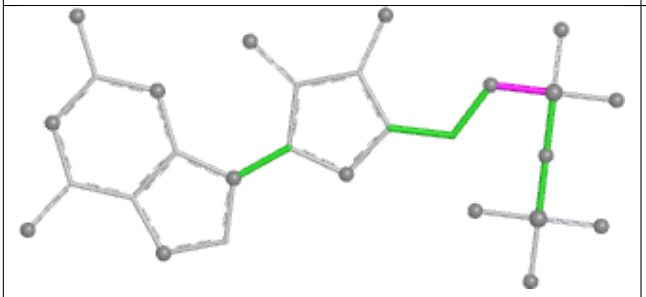

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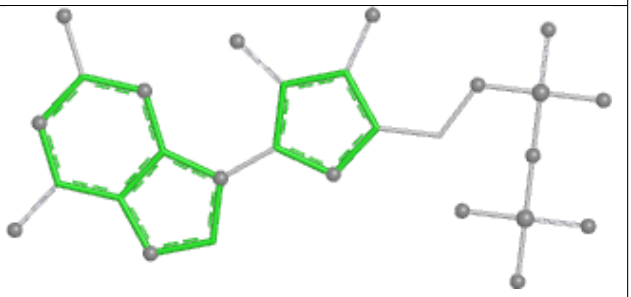

Rings

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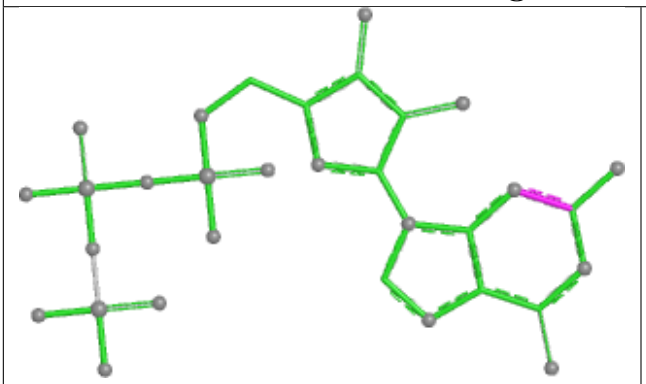

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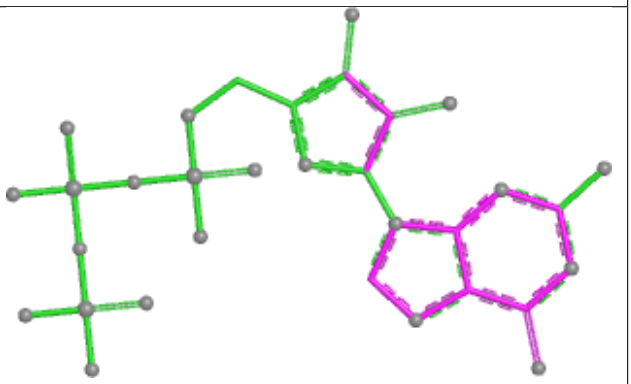

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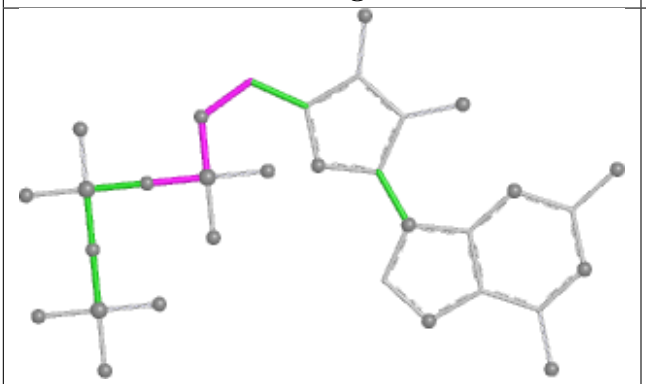

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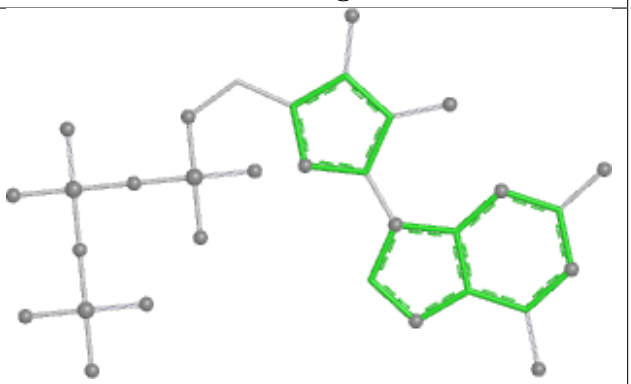

Rings

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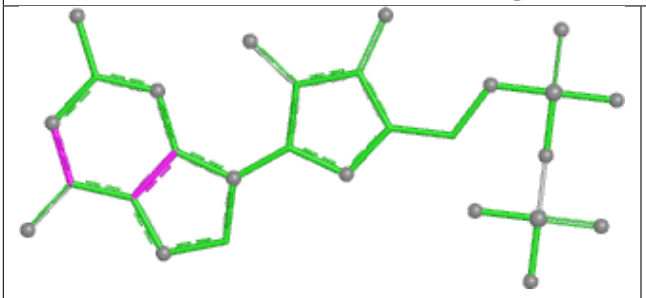

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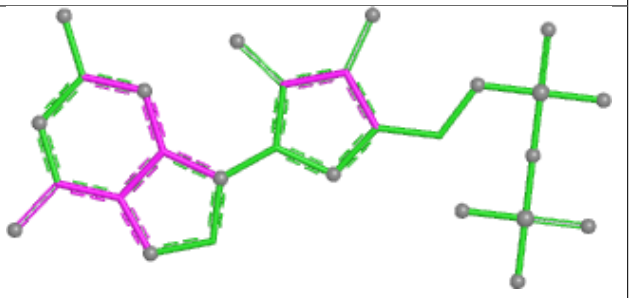

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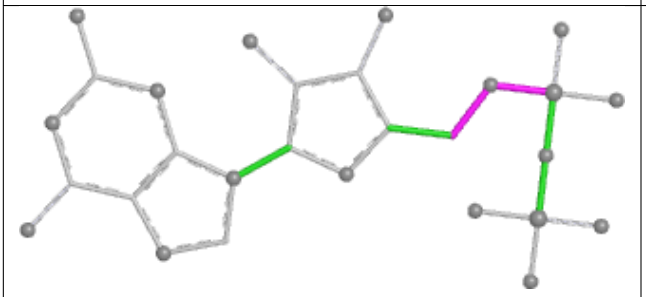

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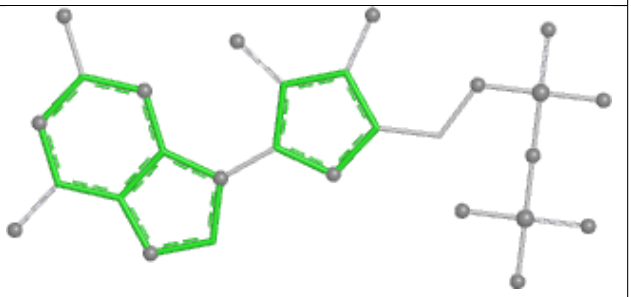

Rings

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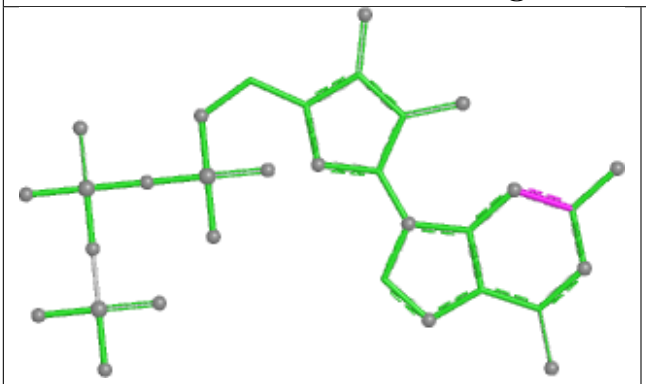

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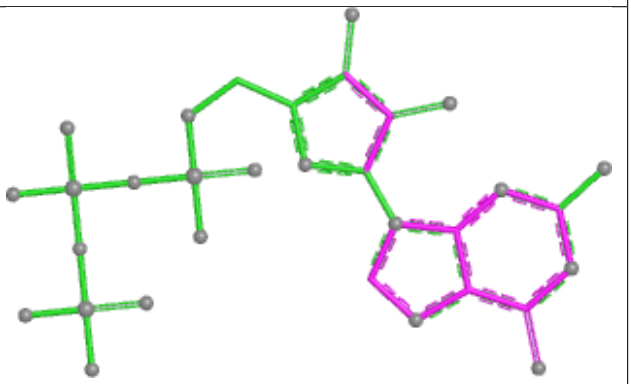

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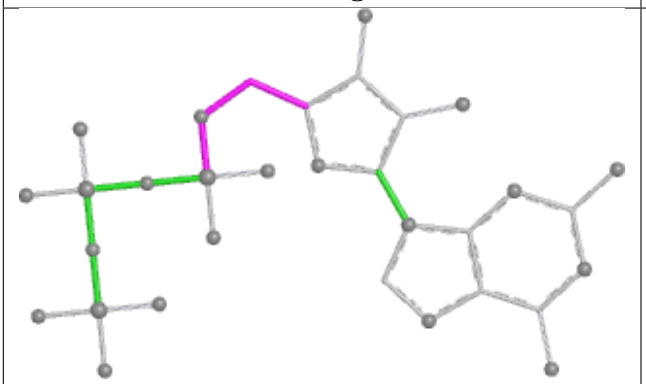

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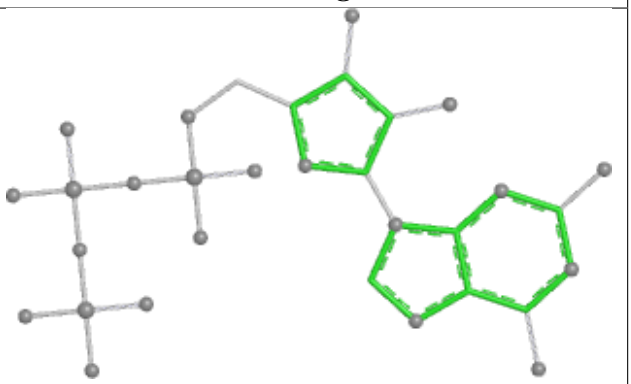
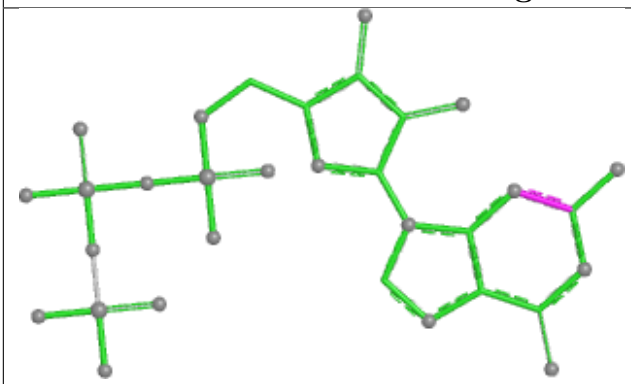


Rings

Ligand GTP KI 501



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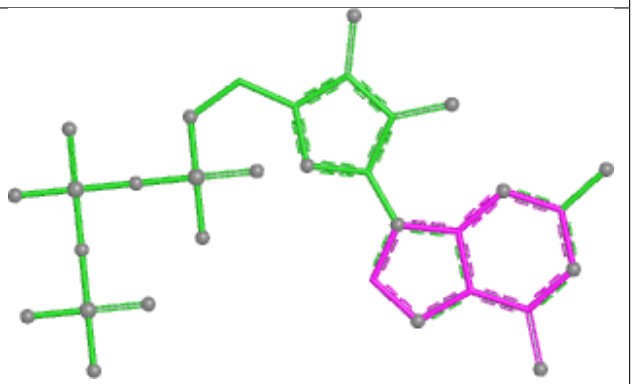

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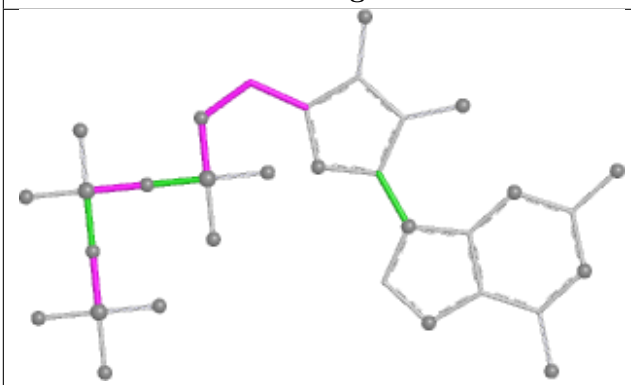

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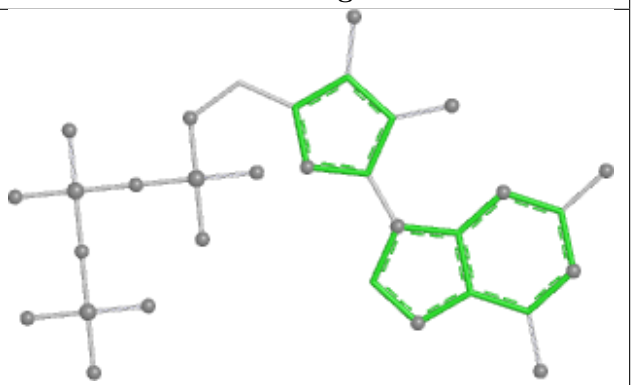
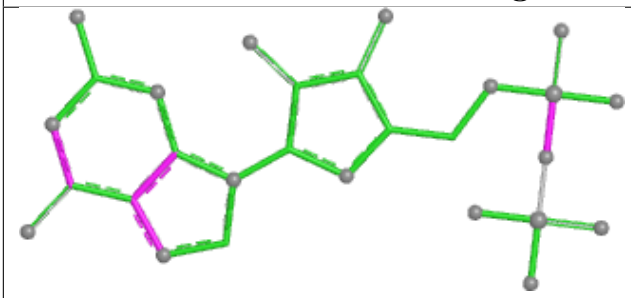


Rings

Ligand GDP PL 501



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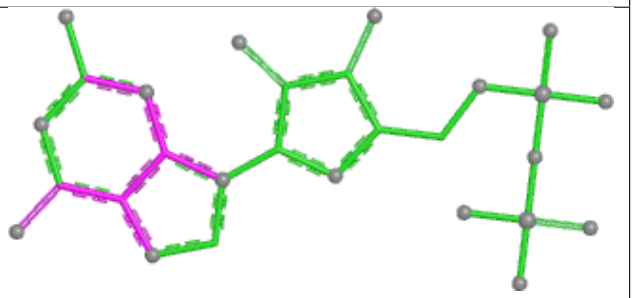

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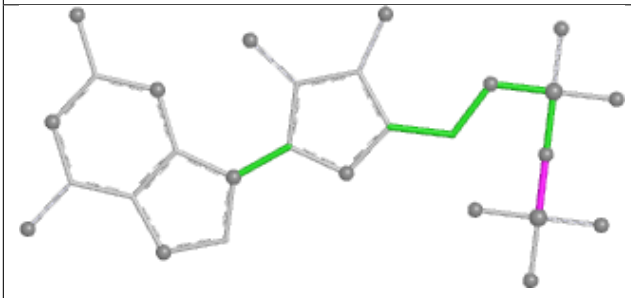

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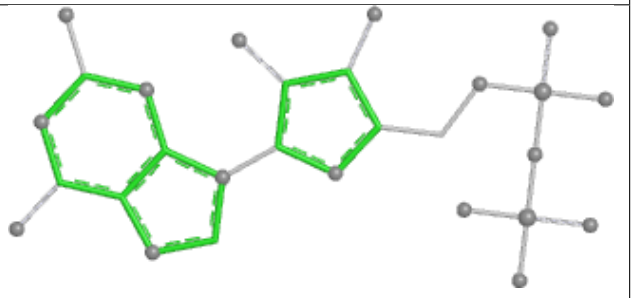
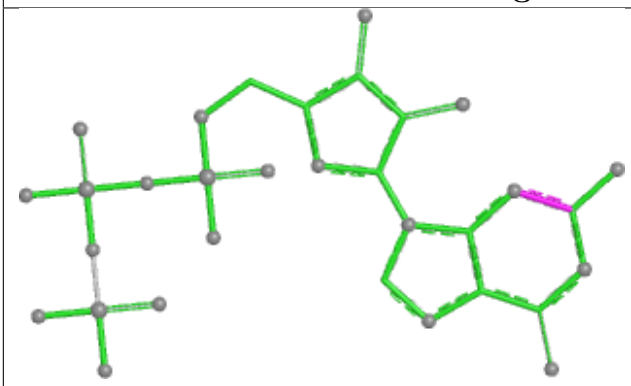


Rings

Ligand GTP CJ 502



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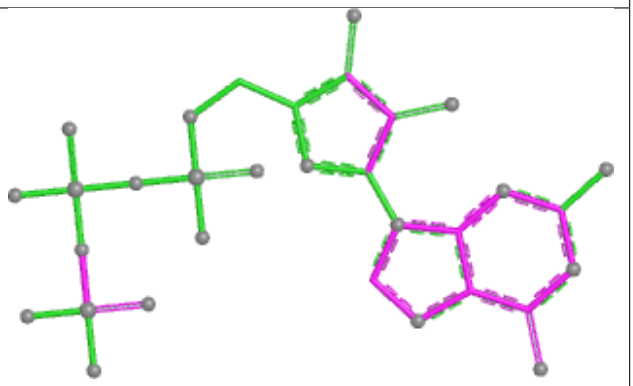

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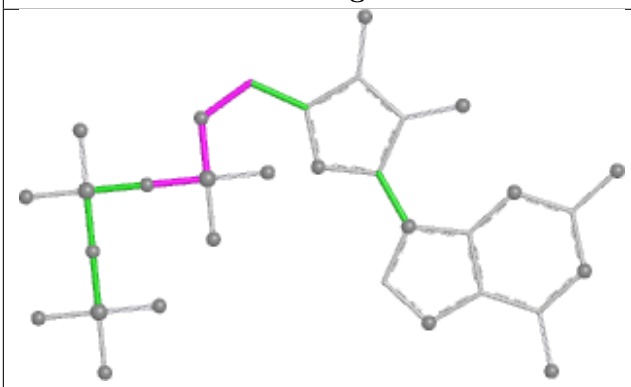

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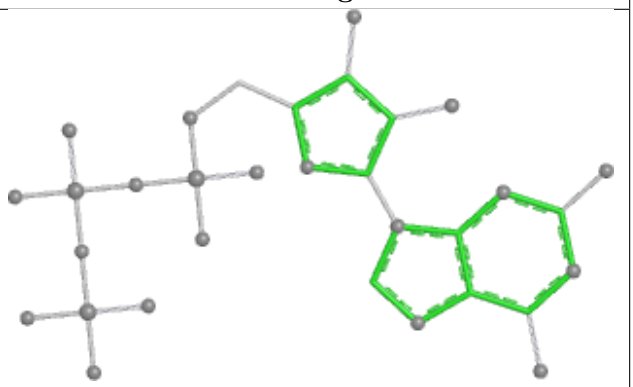
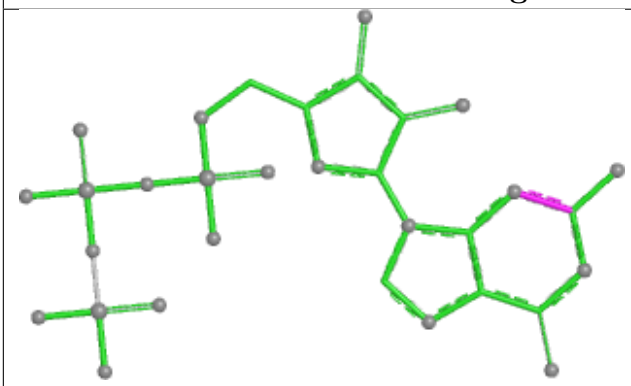


Rings

Ligand GTP EK 501



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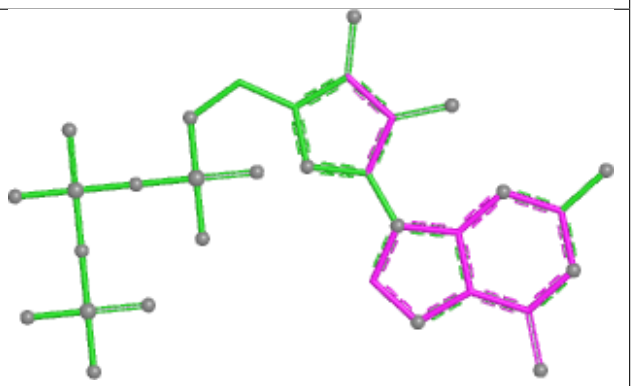

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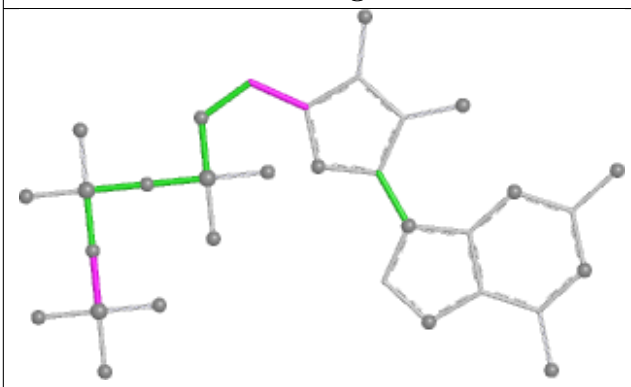
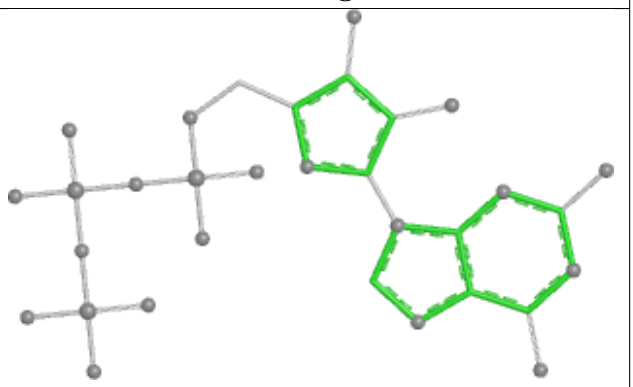
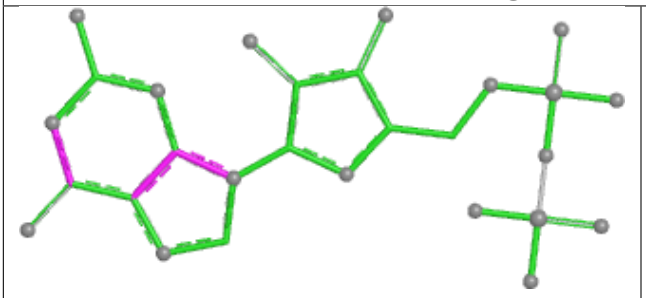


Torsions



Rings

Ligand GDP MB 501



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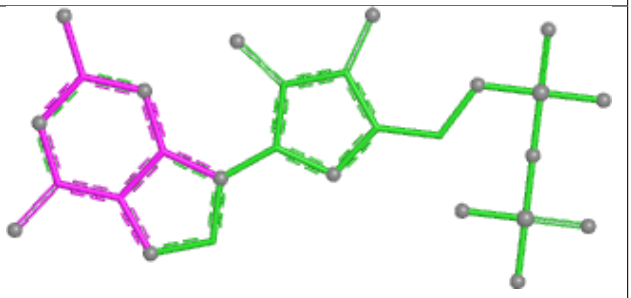

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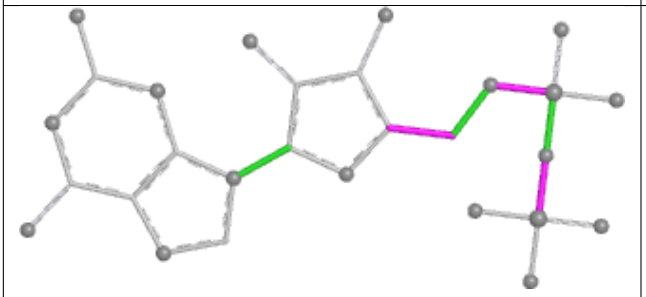

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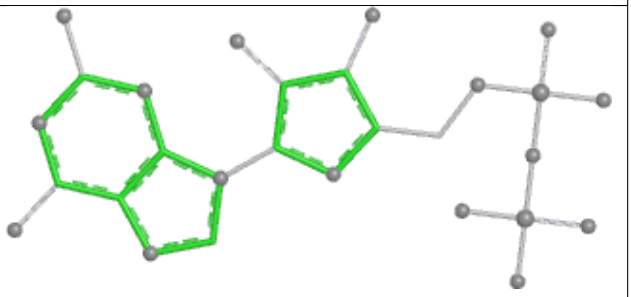

Rings

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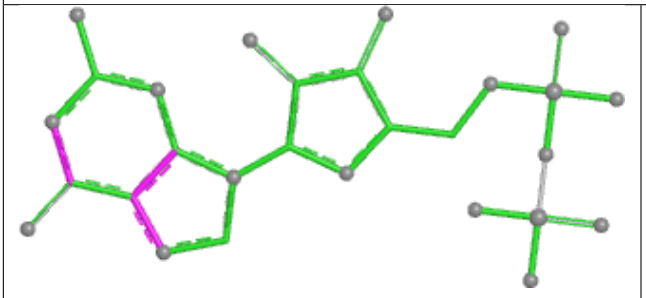

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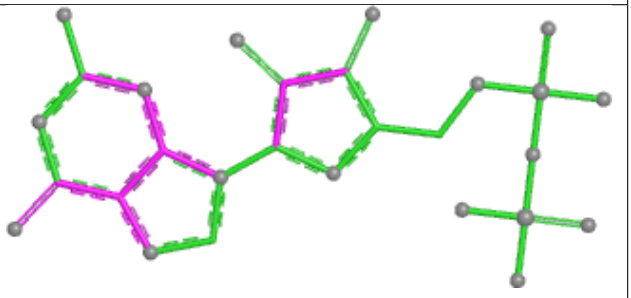

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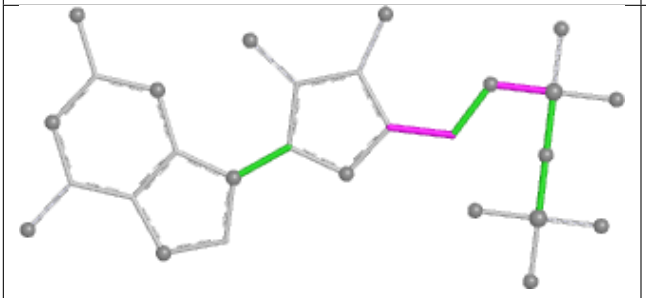

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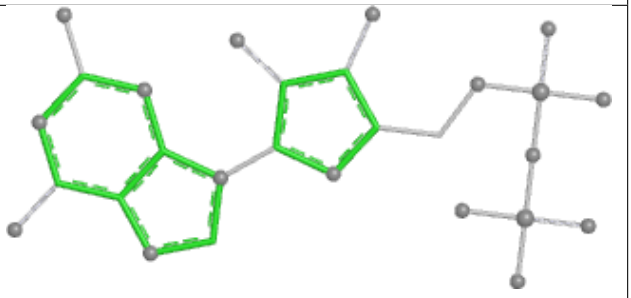

Rings

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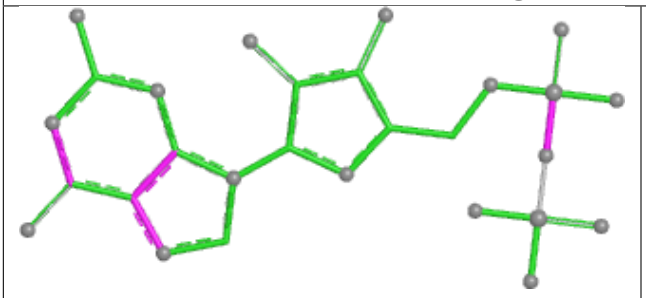

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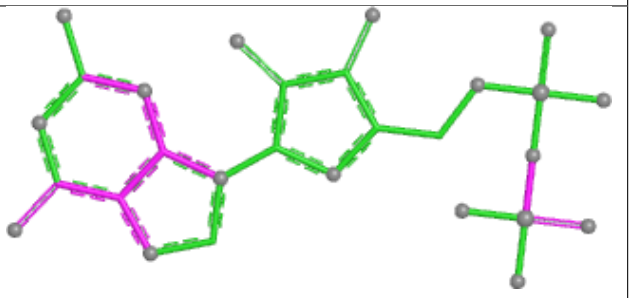

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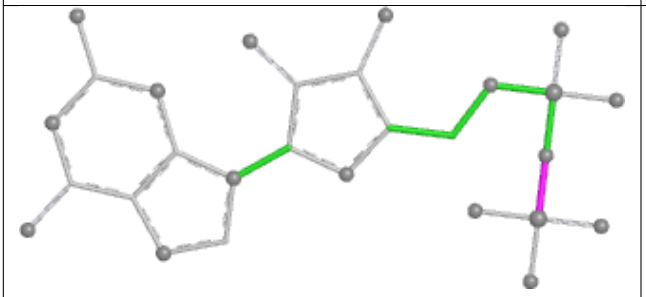

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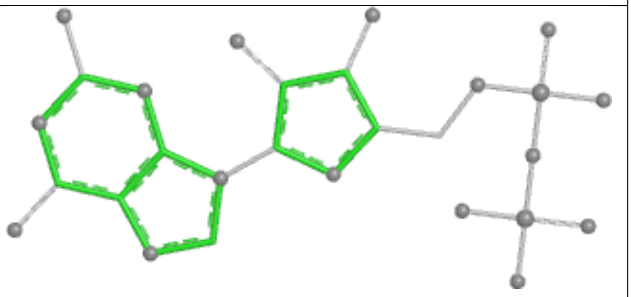
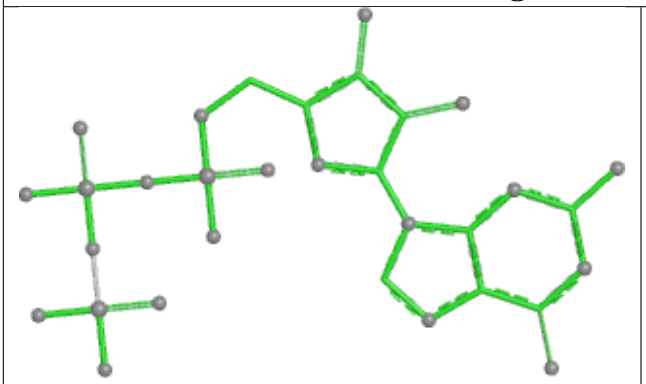


Rings

Ligand GTP AG 501



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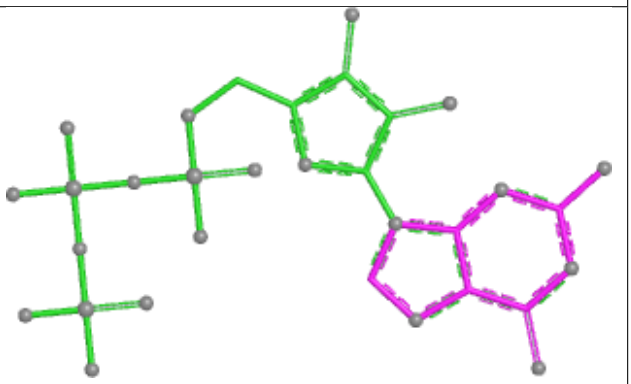

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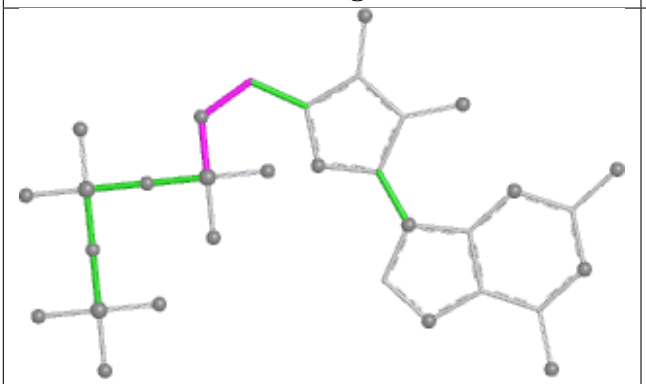

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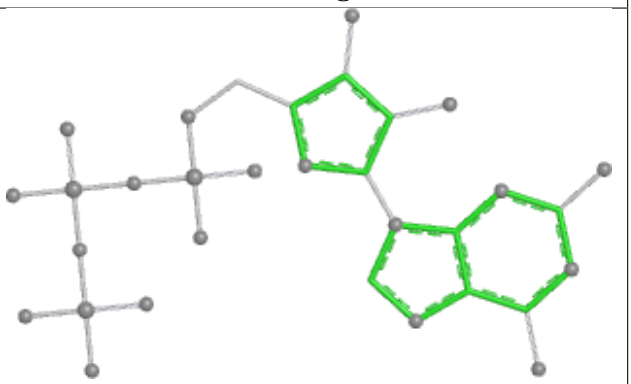
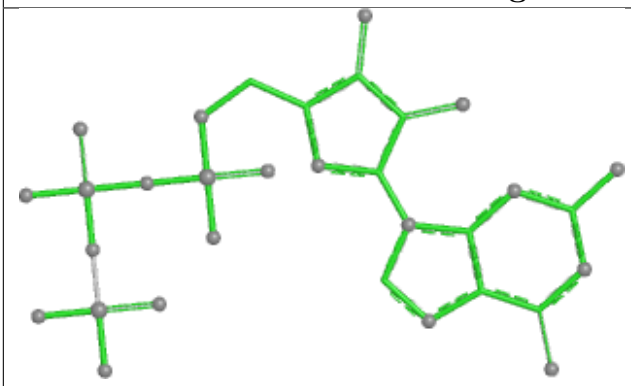


Rings

Ligand GTP CA 501



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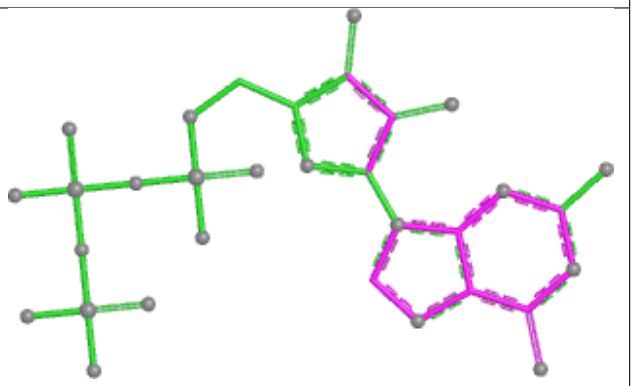

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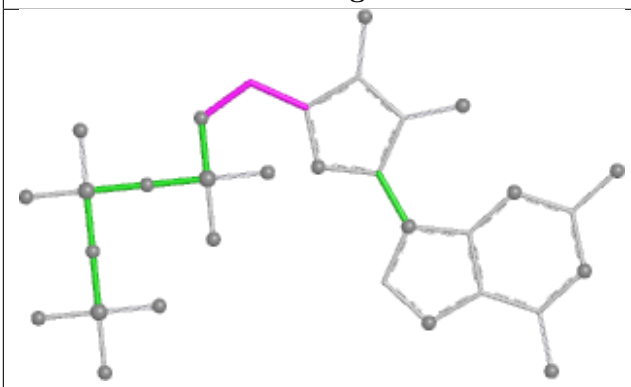

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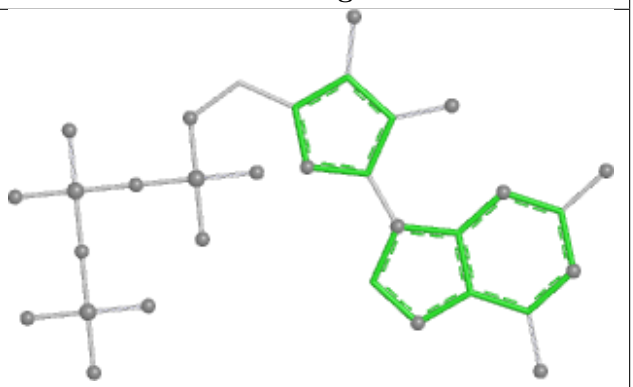
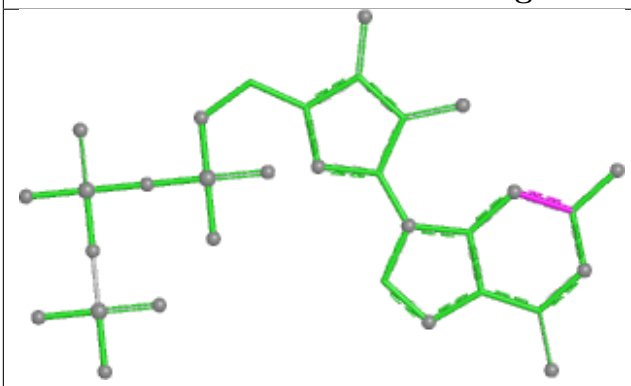


Rings

Ligand GTP IN 502



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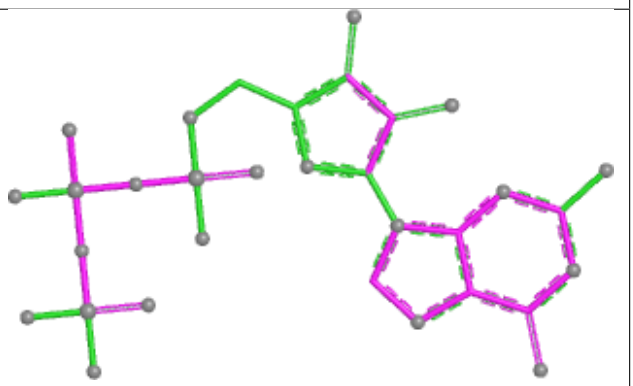

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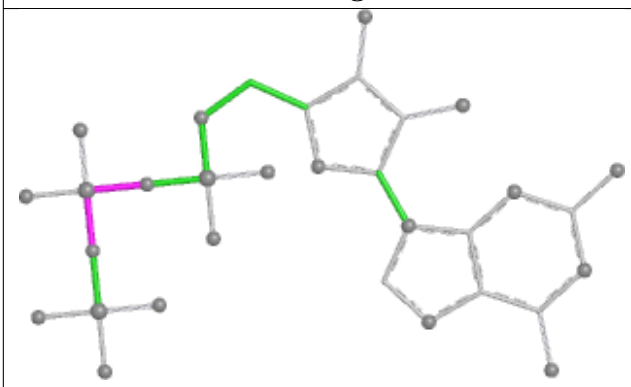

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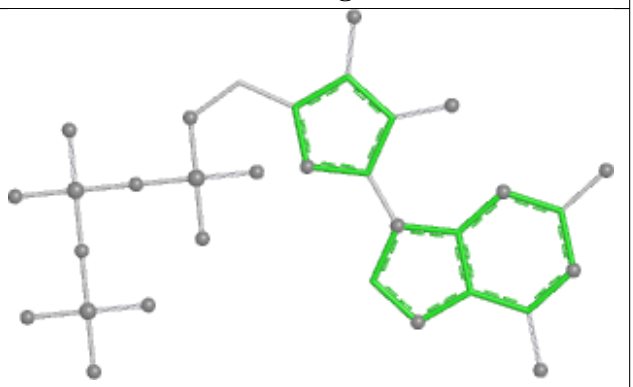

Rings

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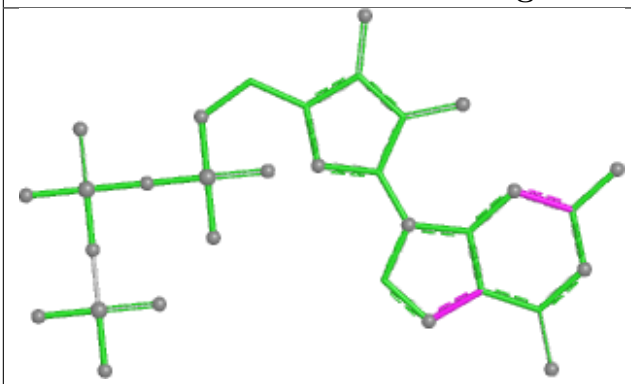

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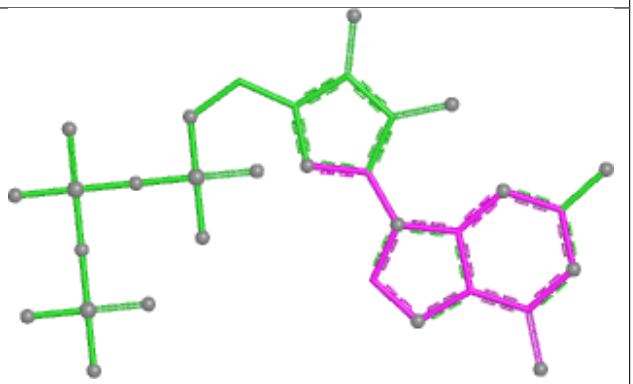

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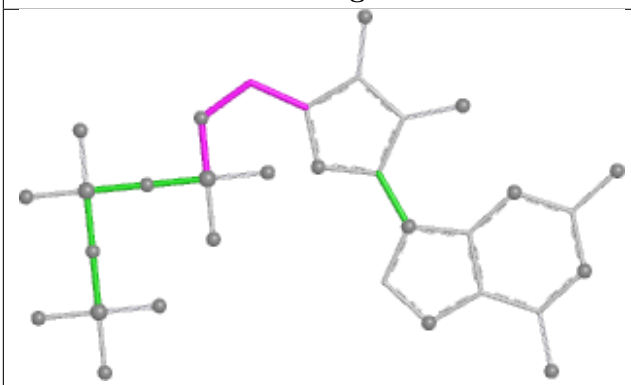

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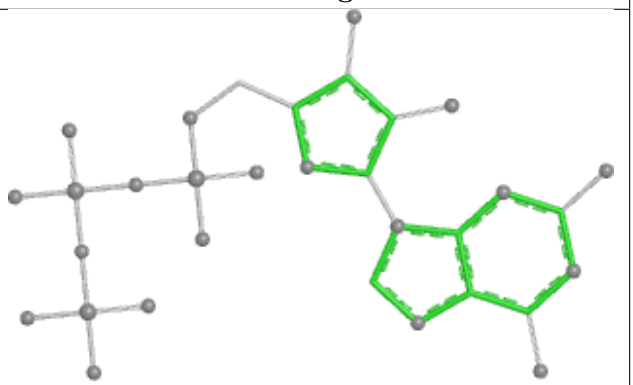

Rings

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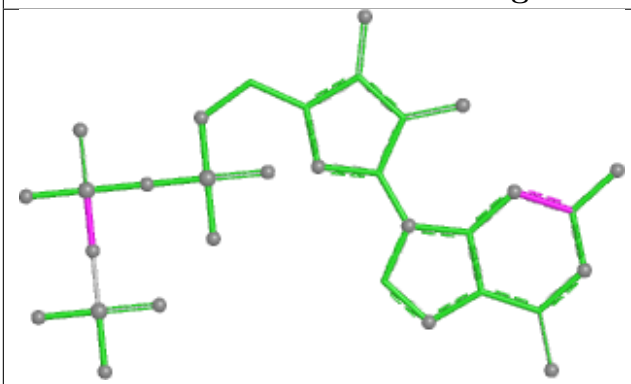

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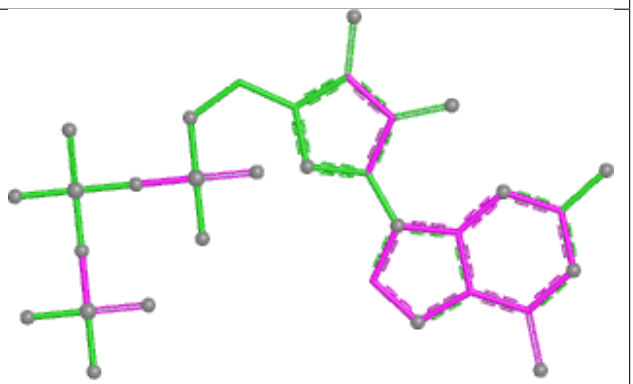

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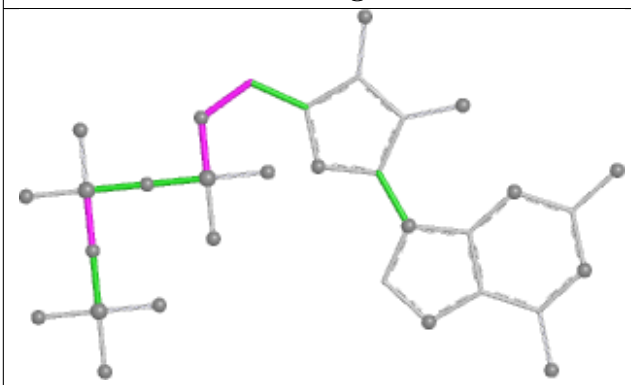

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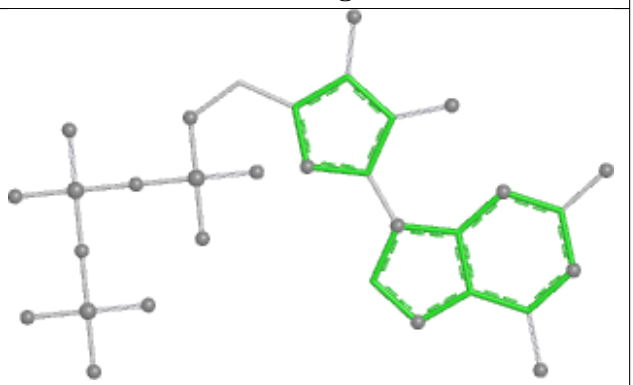

Rings

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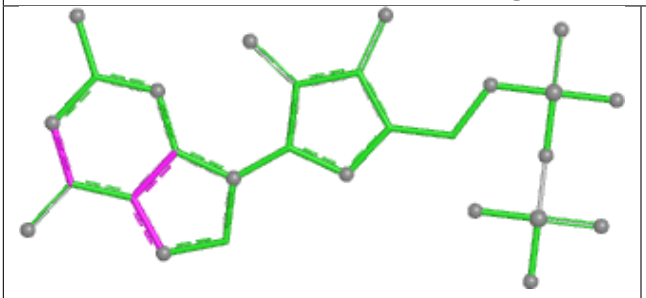

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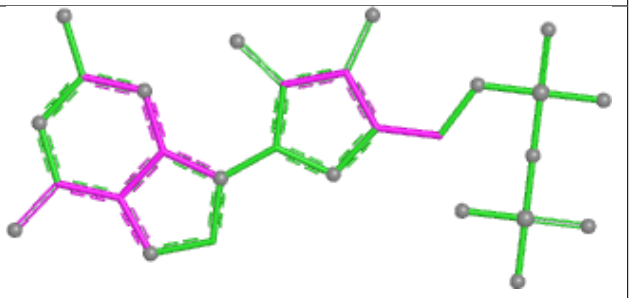

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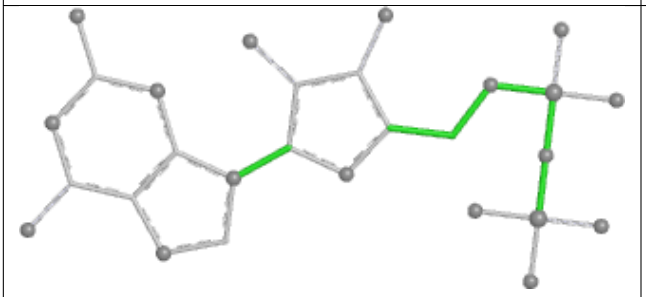

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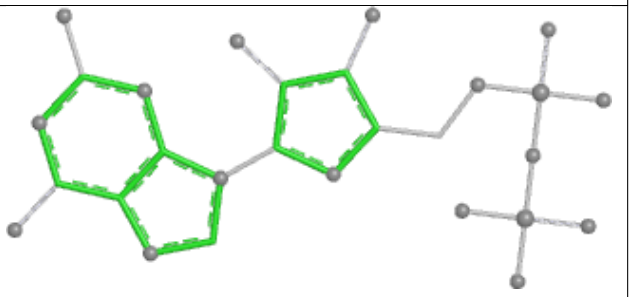

Rings

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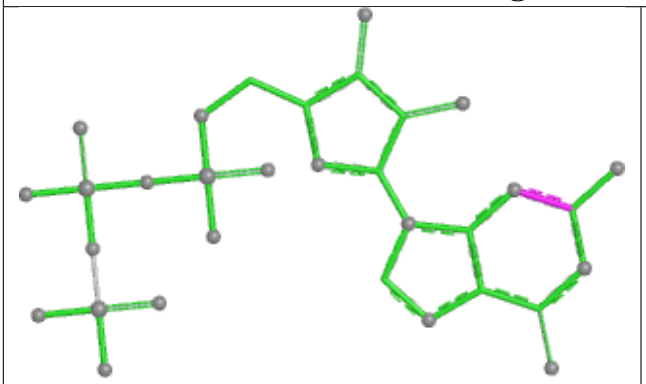

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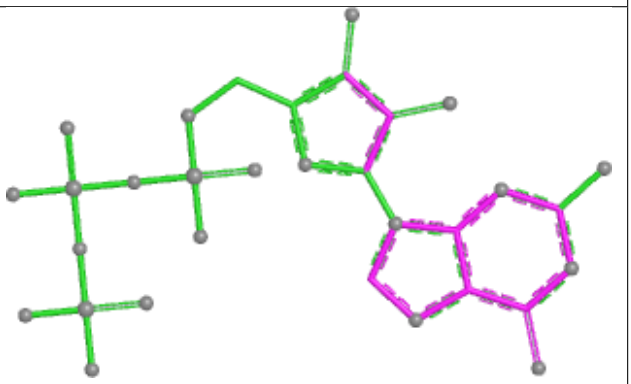

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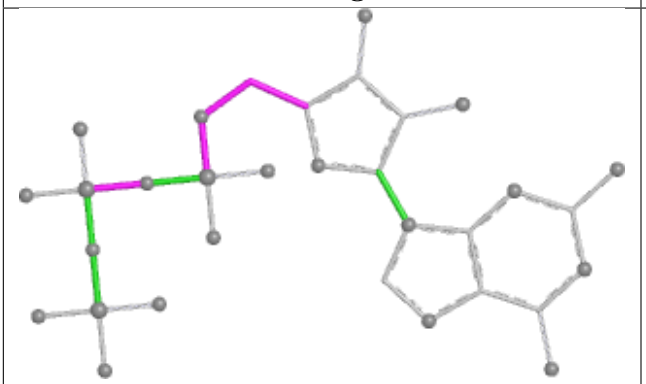

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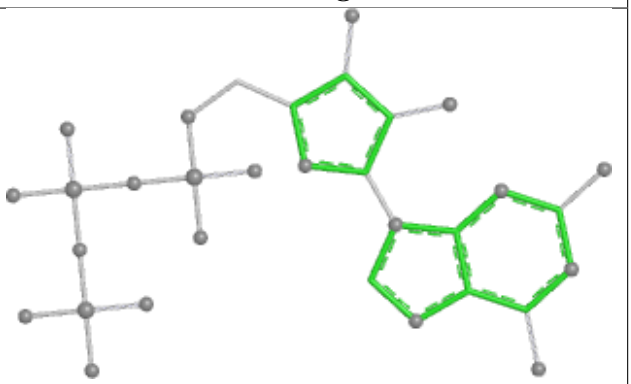
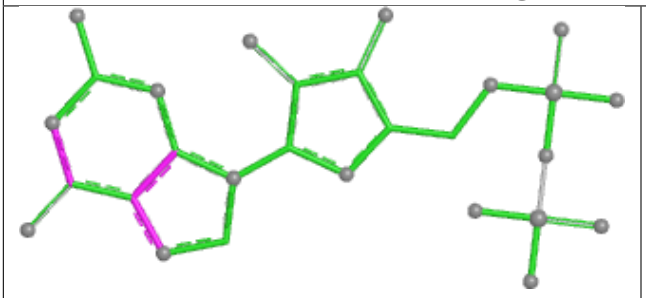


Rings

Ligand GDP EJ 501



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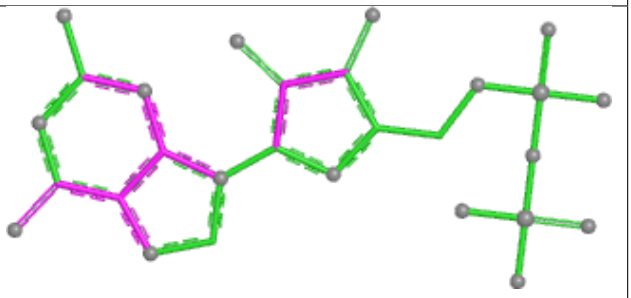

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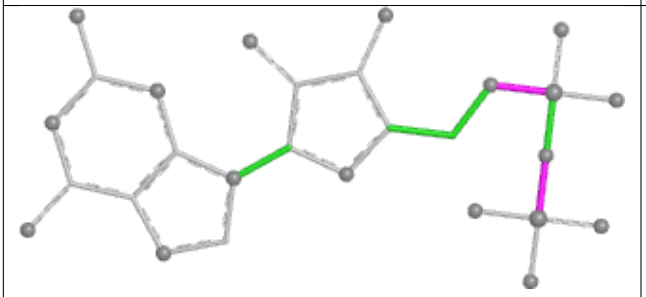

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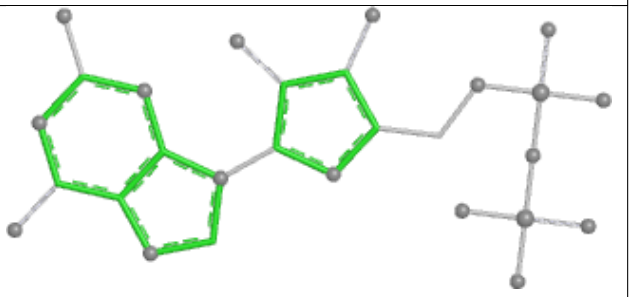
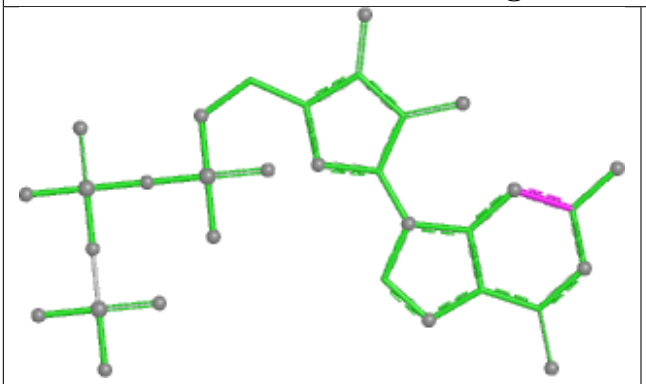


Rings

Ligand GTP QM 501



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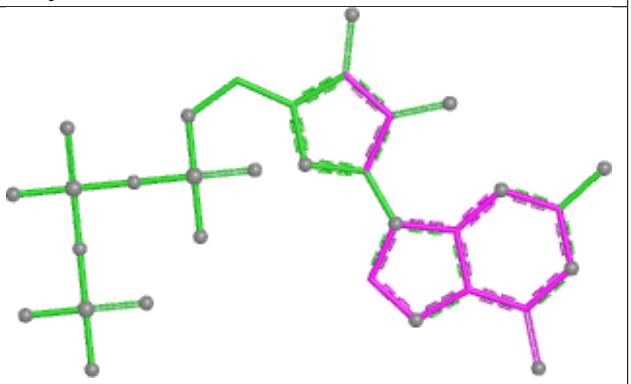

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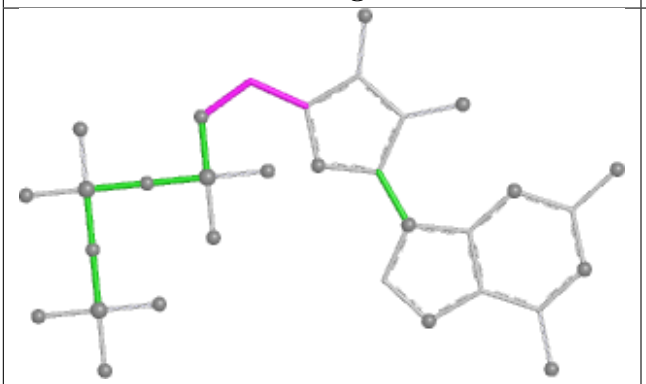

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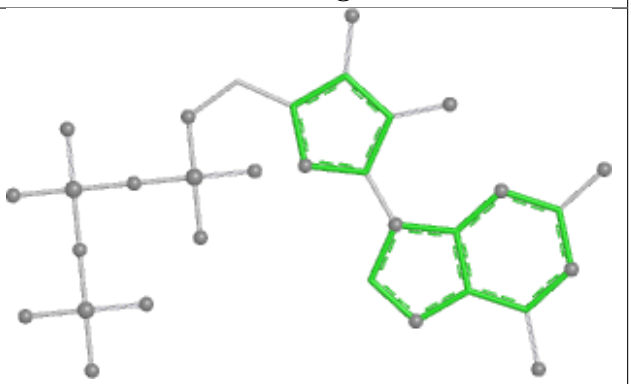
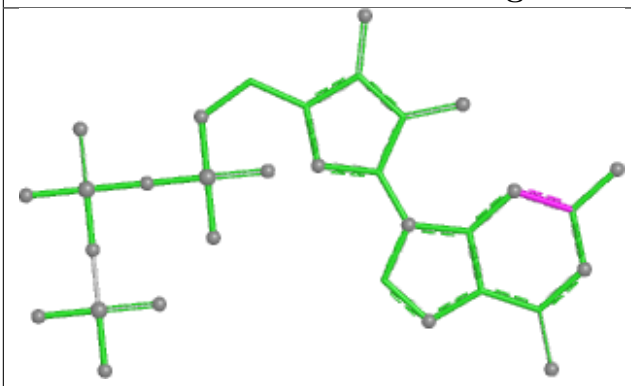


Rings

Ligand GTP PM 501



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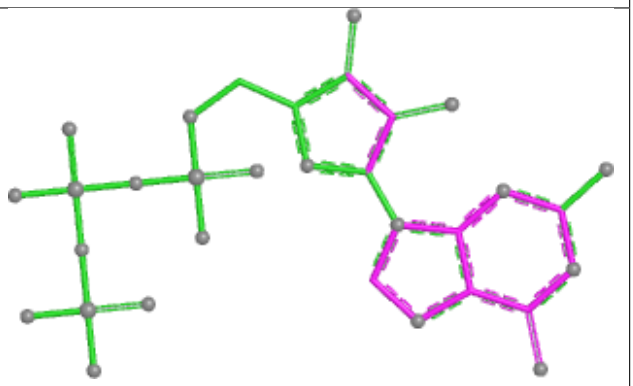

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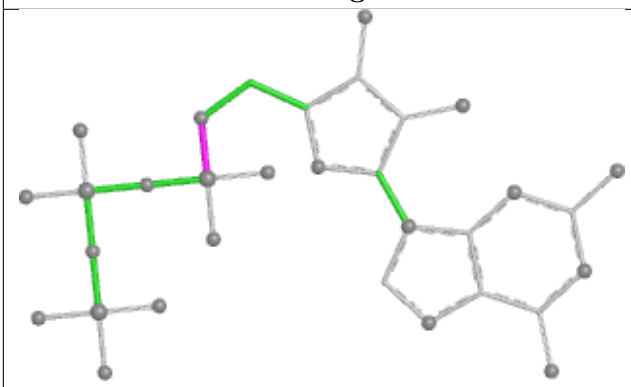

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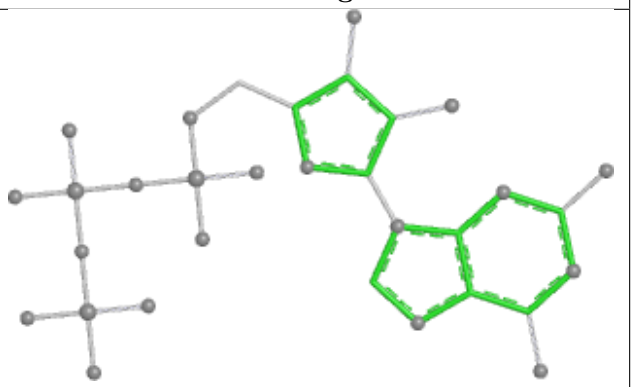
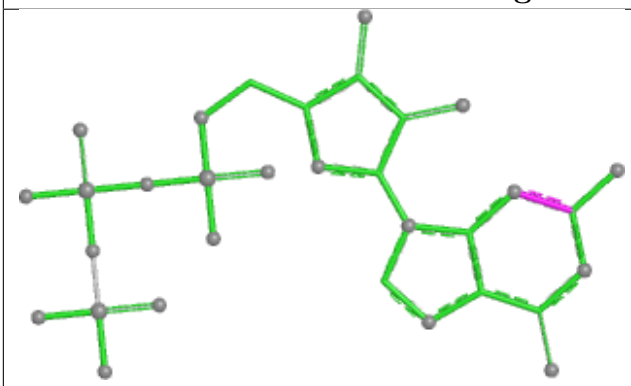
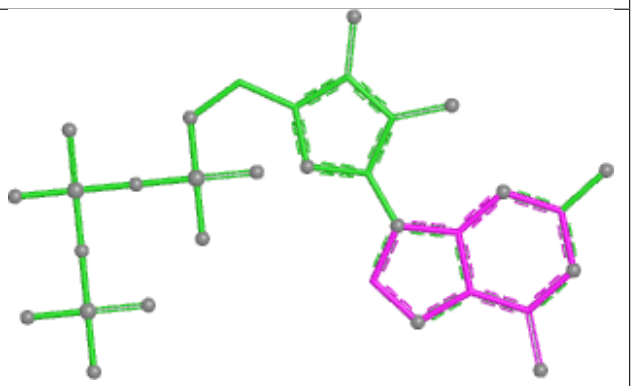


Rings

Ligand GTP SE 501



Bond lengths



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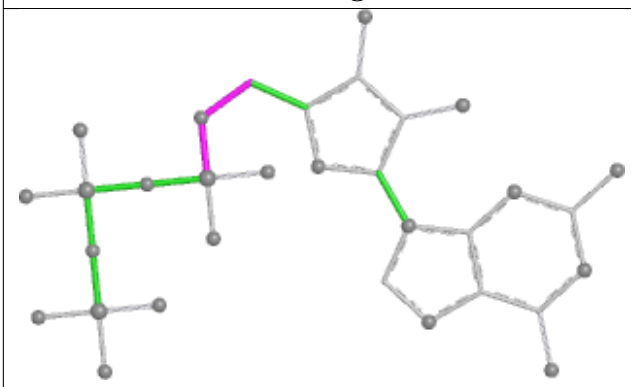
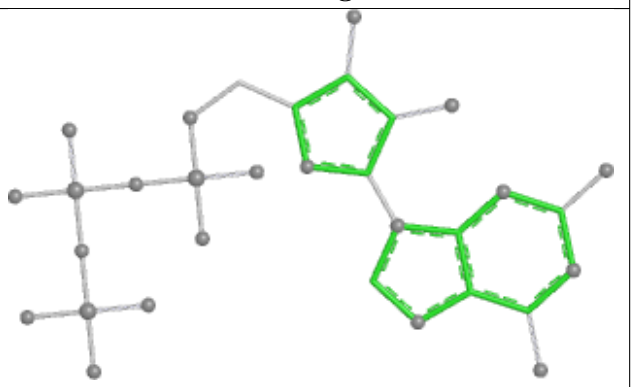
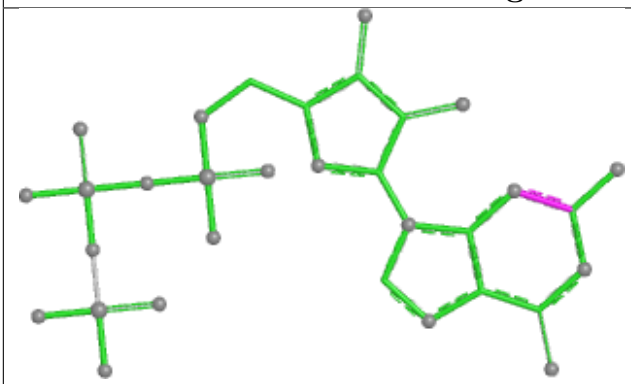


Torsions



Rings

Ligand GTP TM 501



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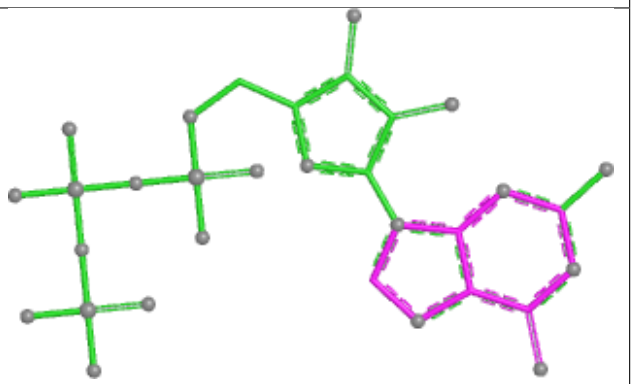

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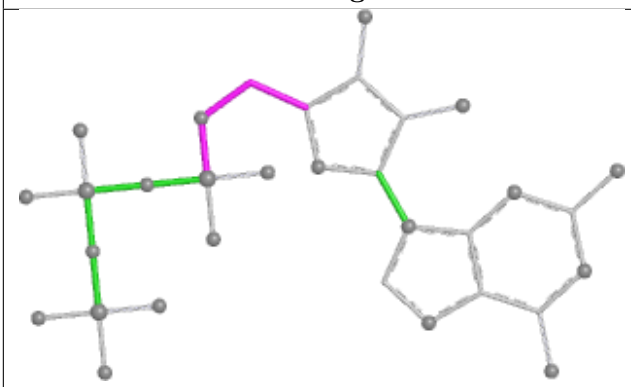

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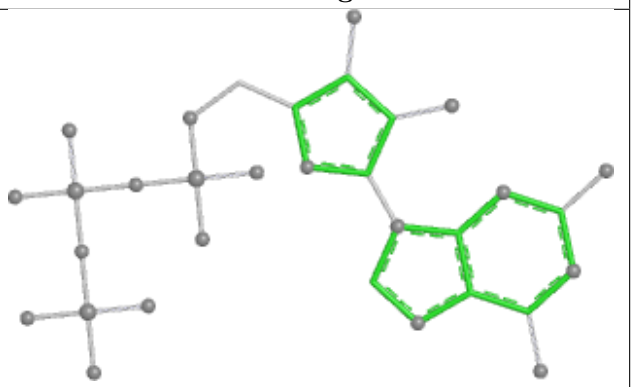
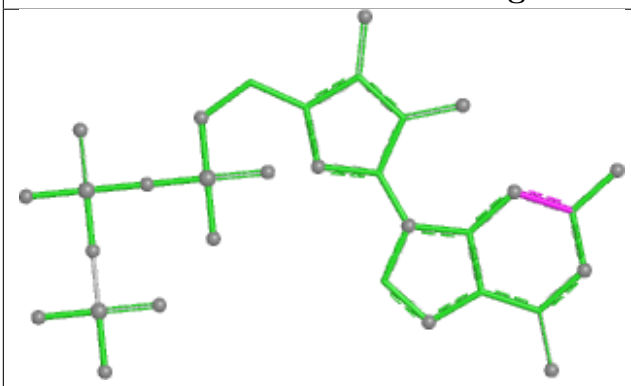


Rings

Ligand GTP KG 501



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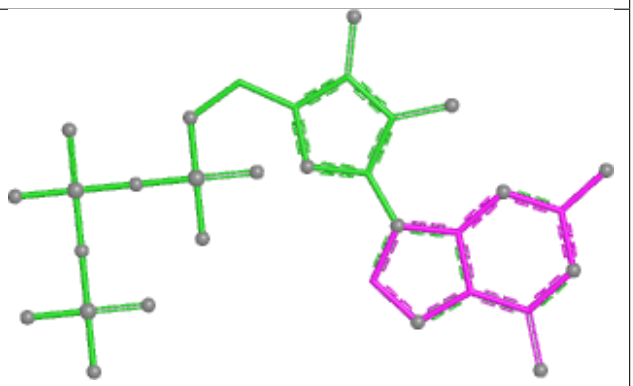

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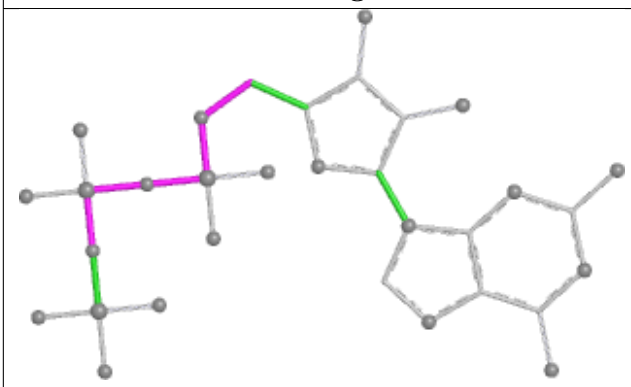

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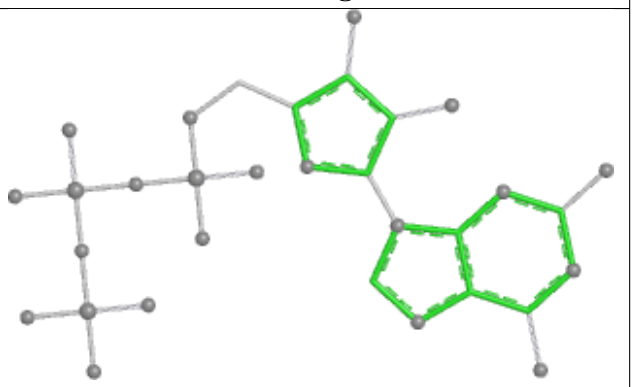

Rings

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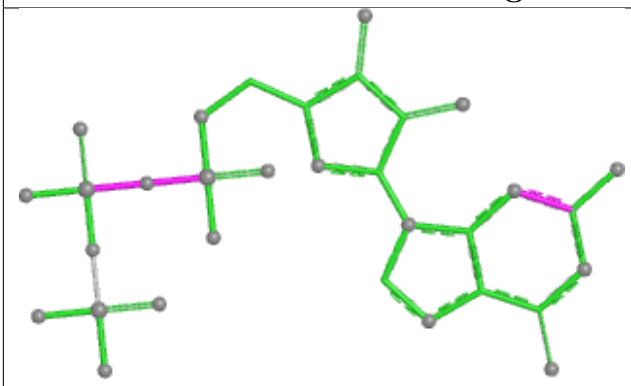

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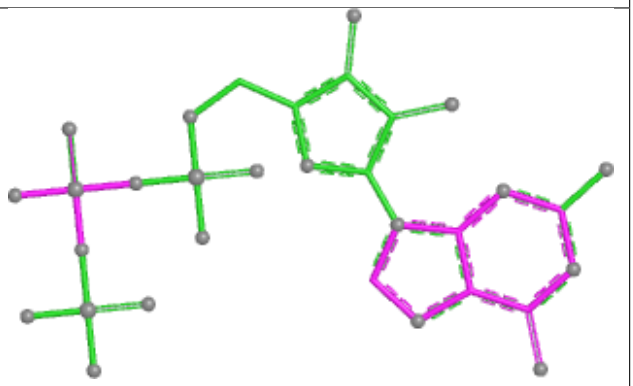

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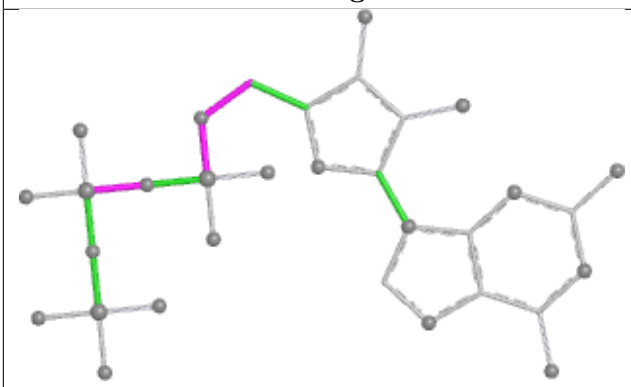

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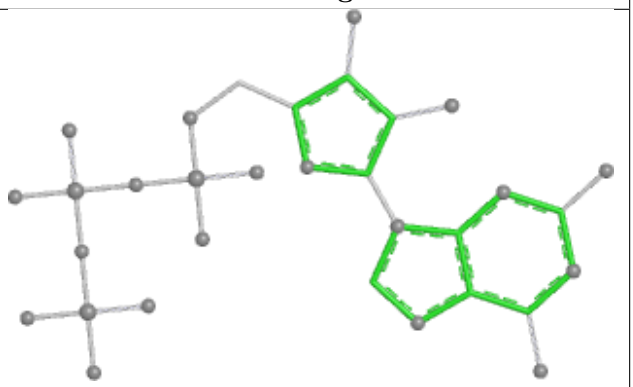

Rings

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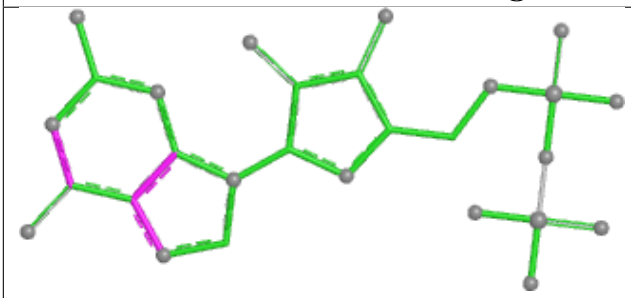

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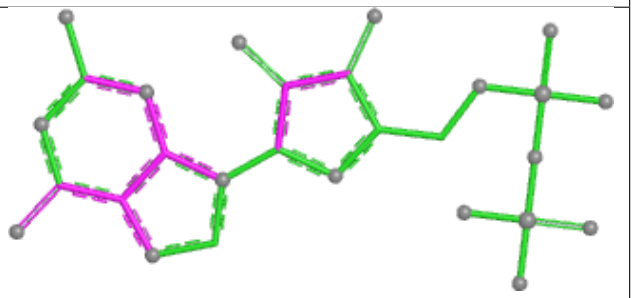

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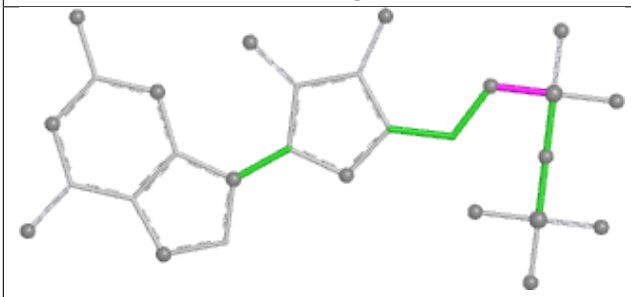

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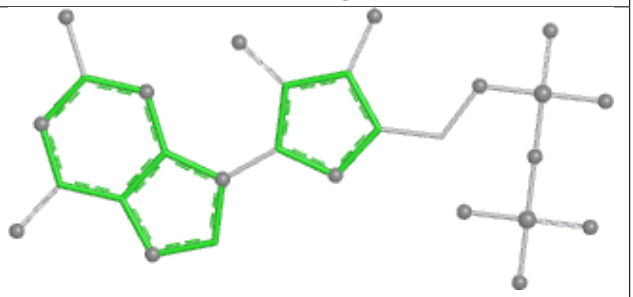

Rings

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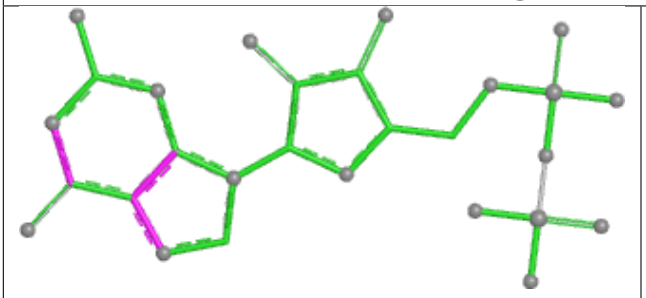

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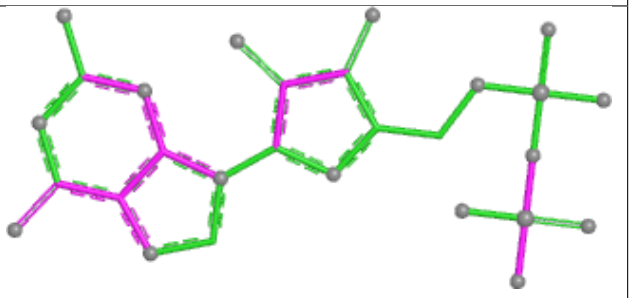

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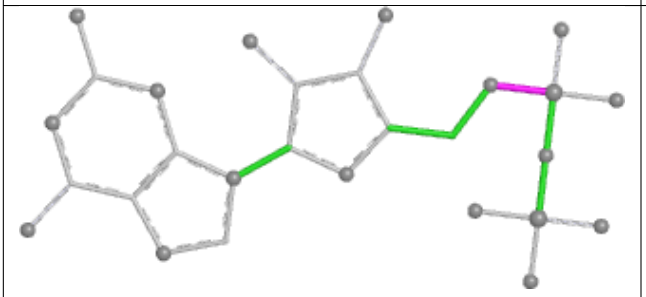

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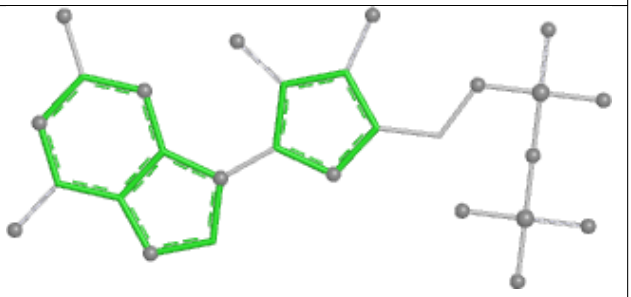

Rings

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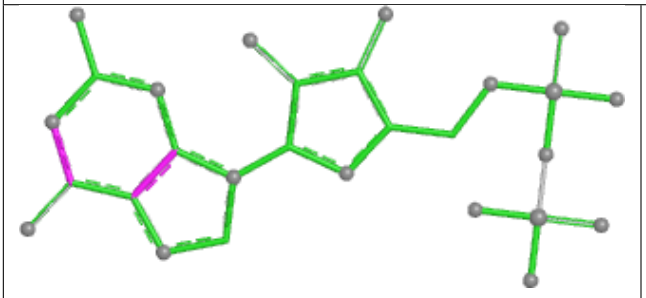

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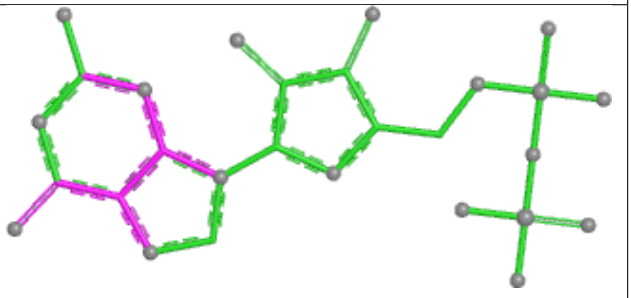

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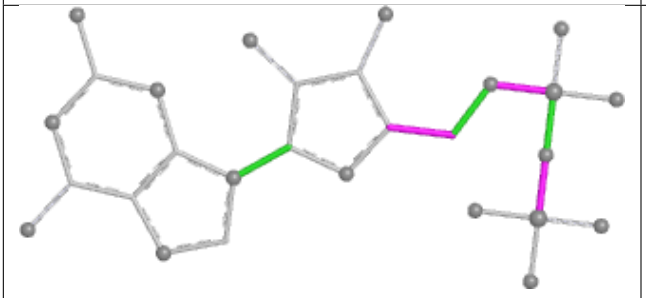

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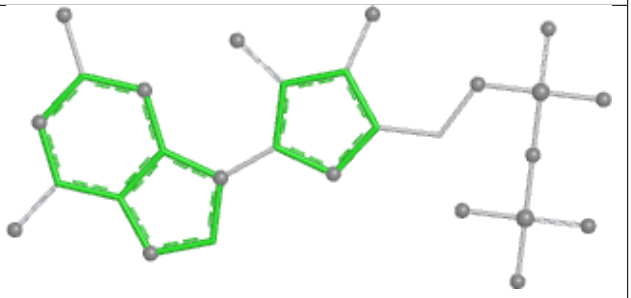
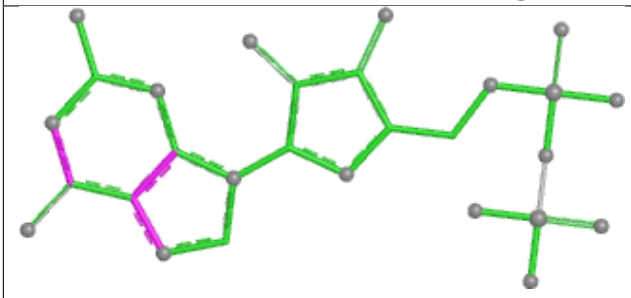
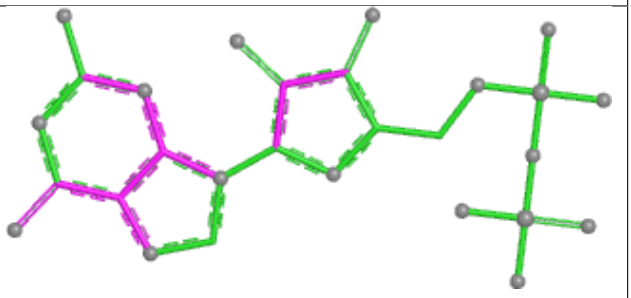
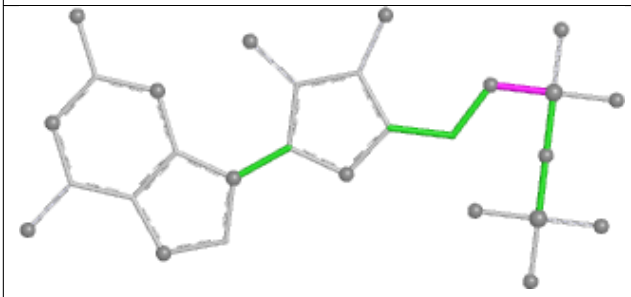
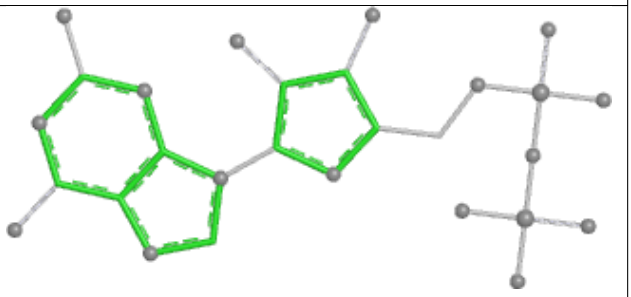


Rings

Ligand GDP FL 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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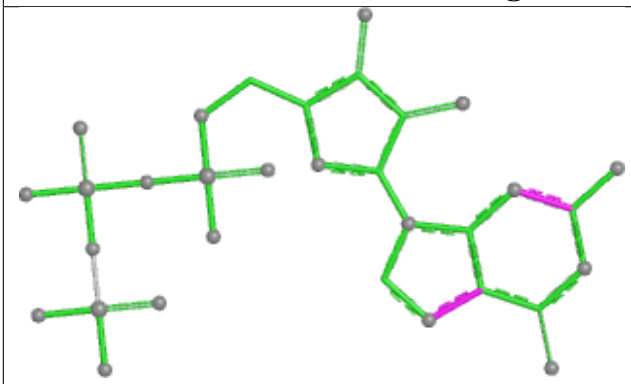
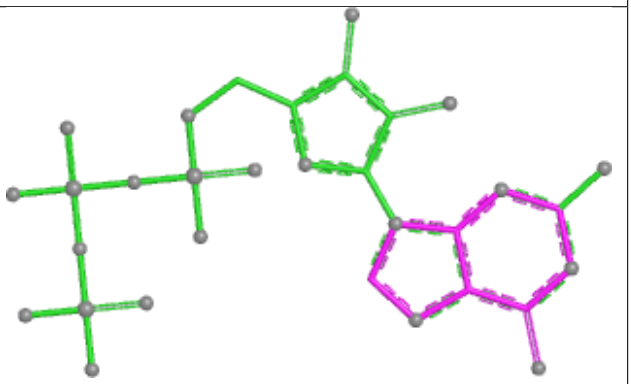
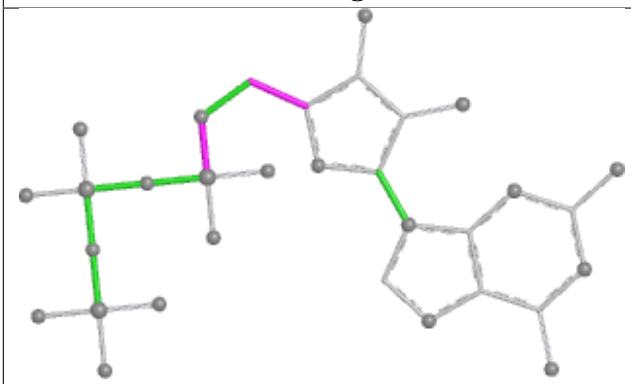
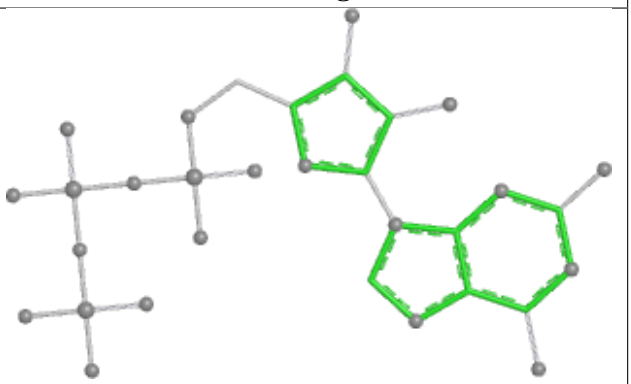
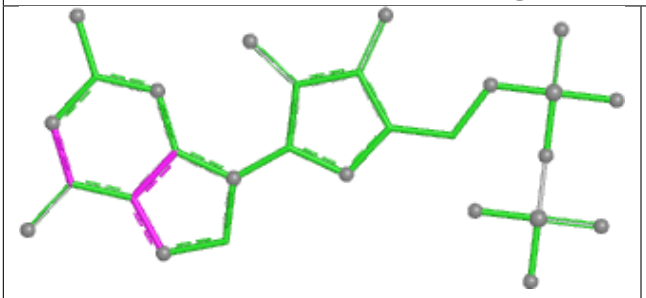
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP TL 501



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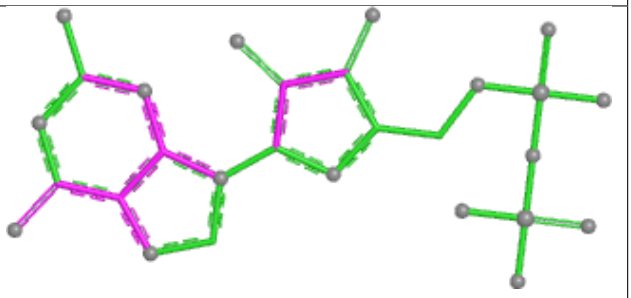

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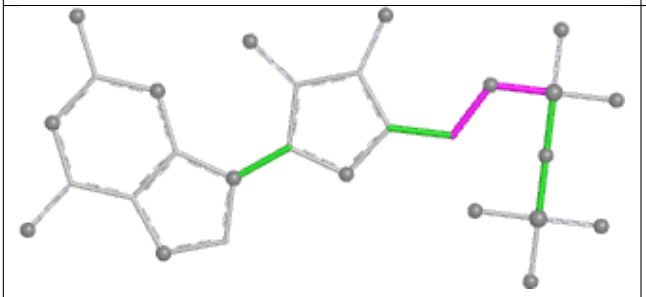

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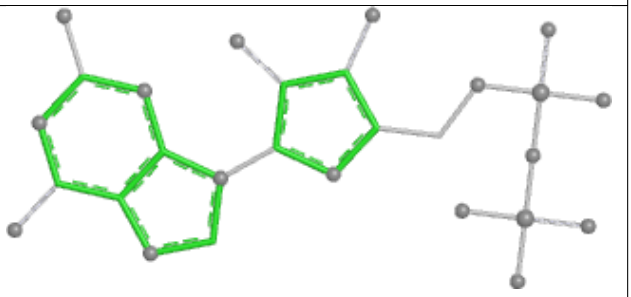
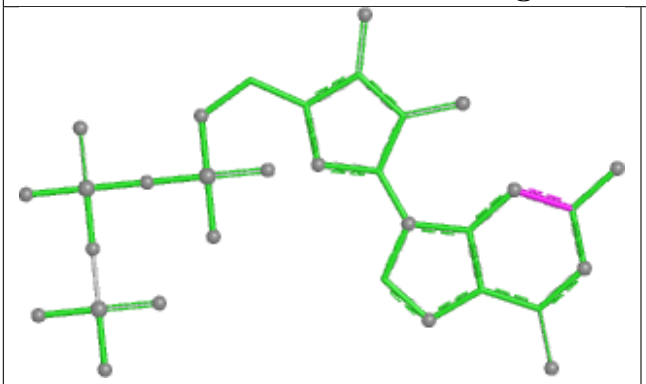


Rings

Ligand GTP NI 501



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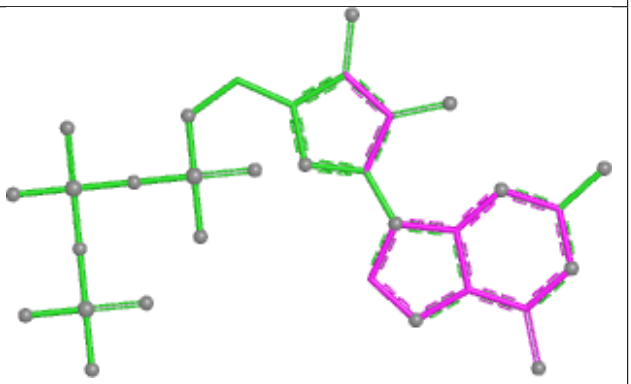

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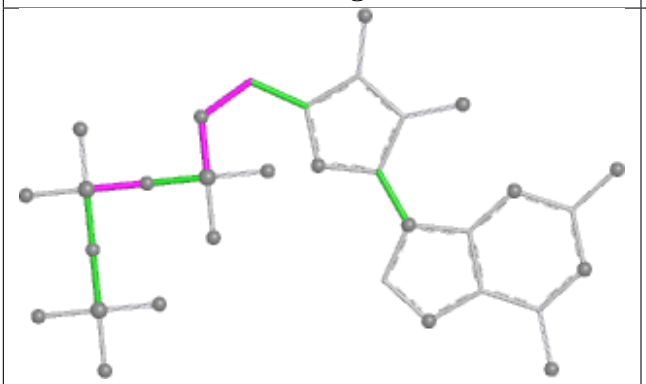

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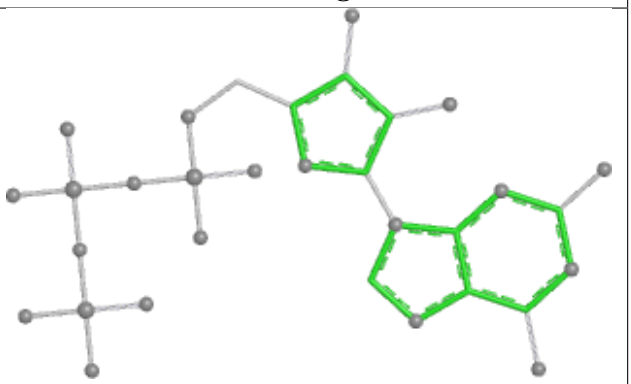
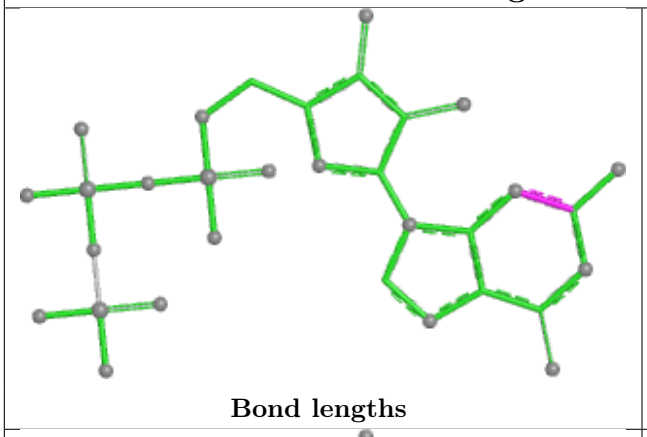


Rings

Ligand GTP ME 501



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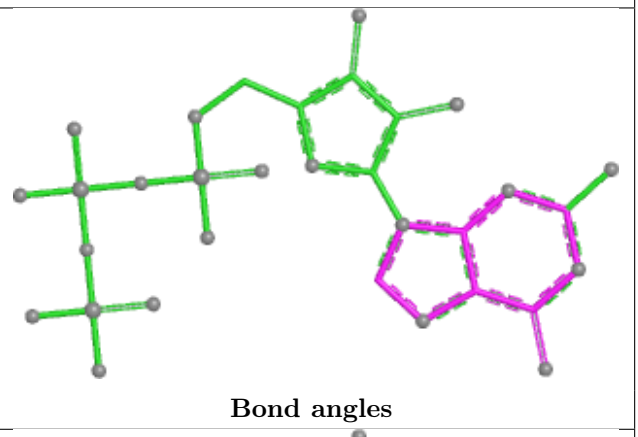
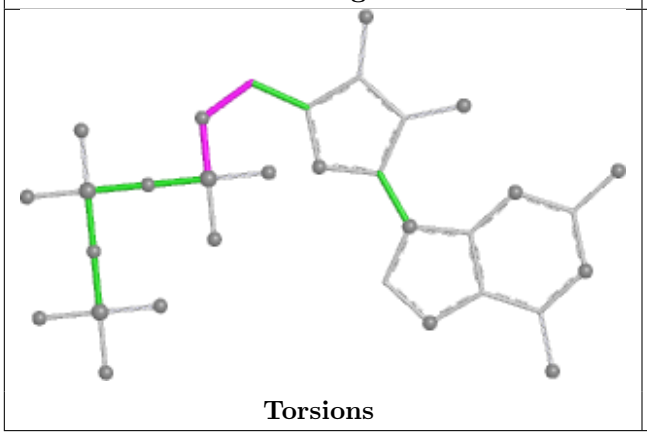


Bond angles



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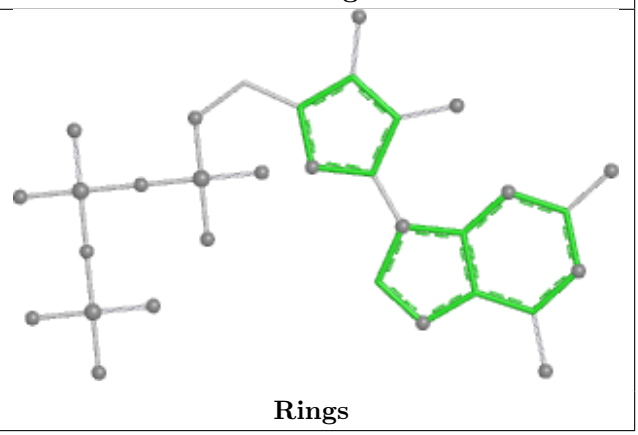
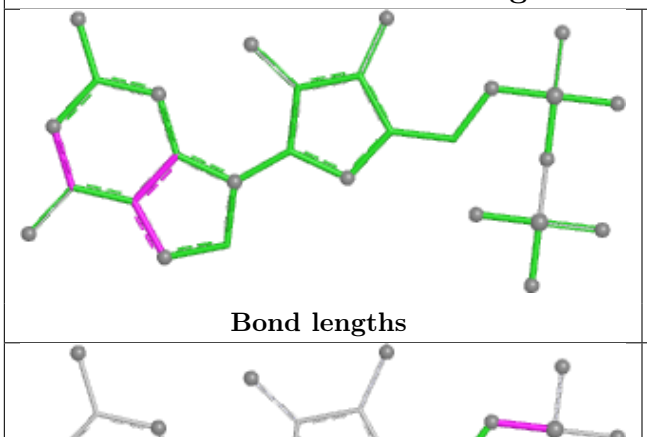


Rings

Ligand GDP EN 501



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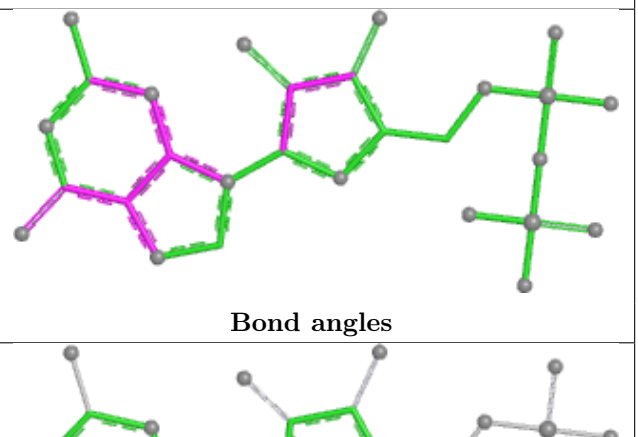
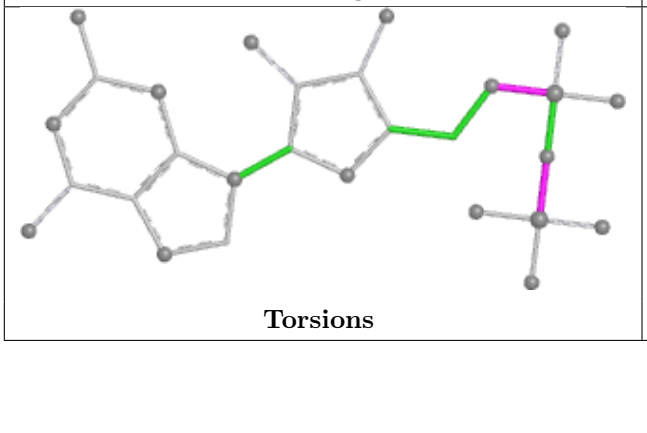


Bond angles



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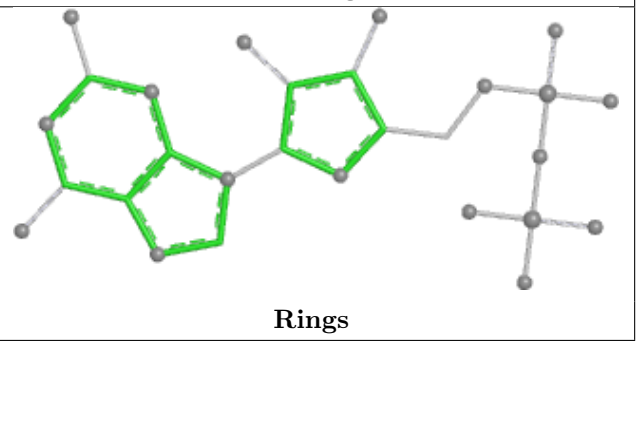
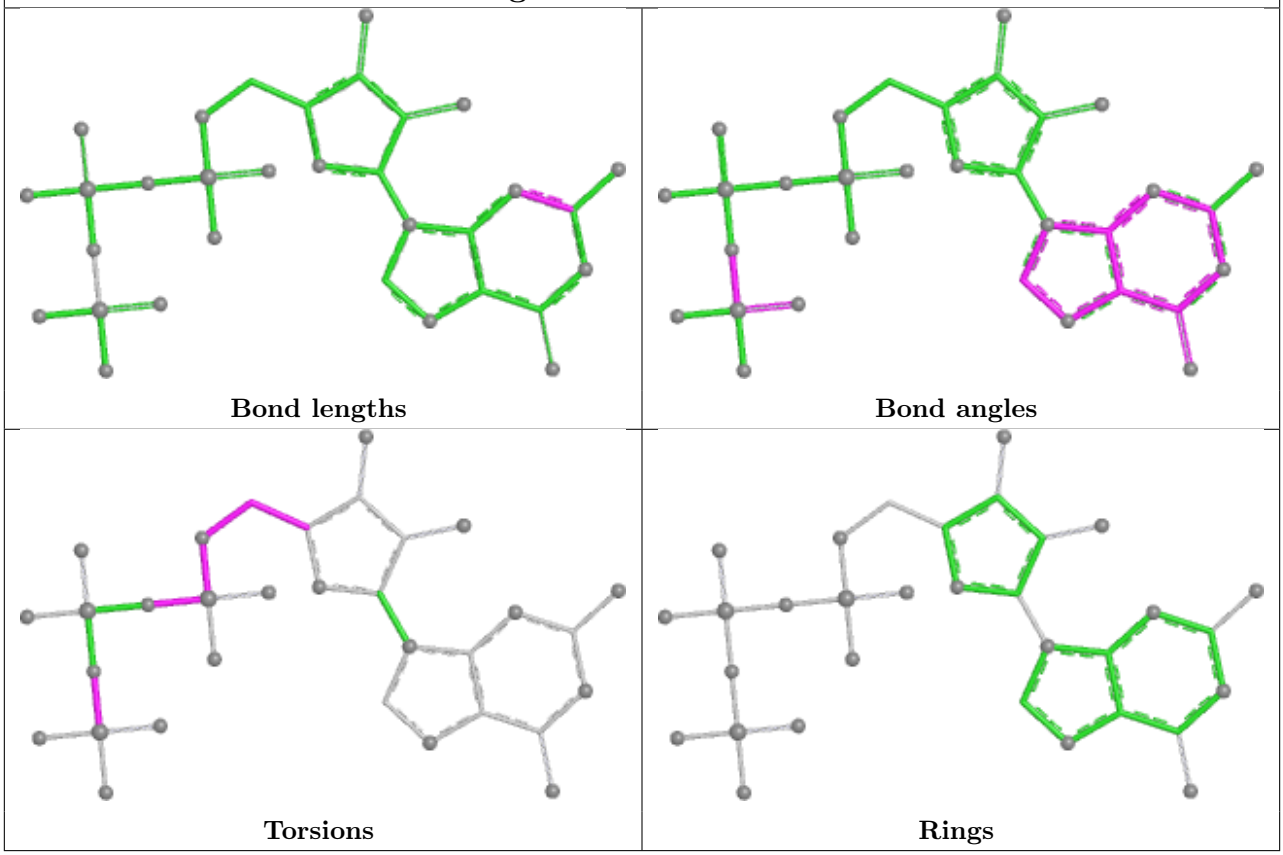


Rings

Ligand GTP VK 501



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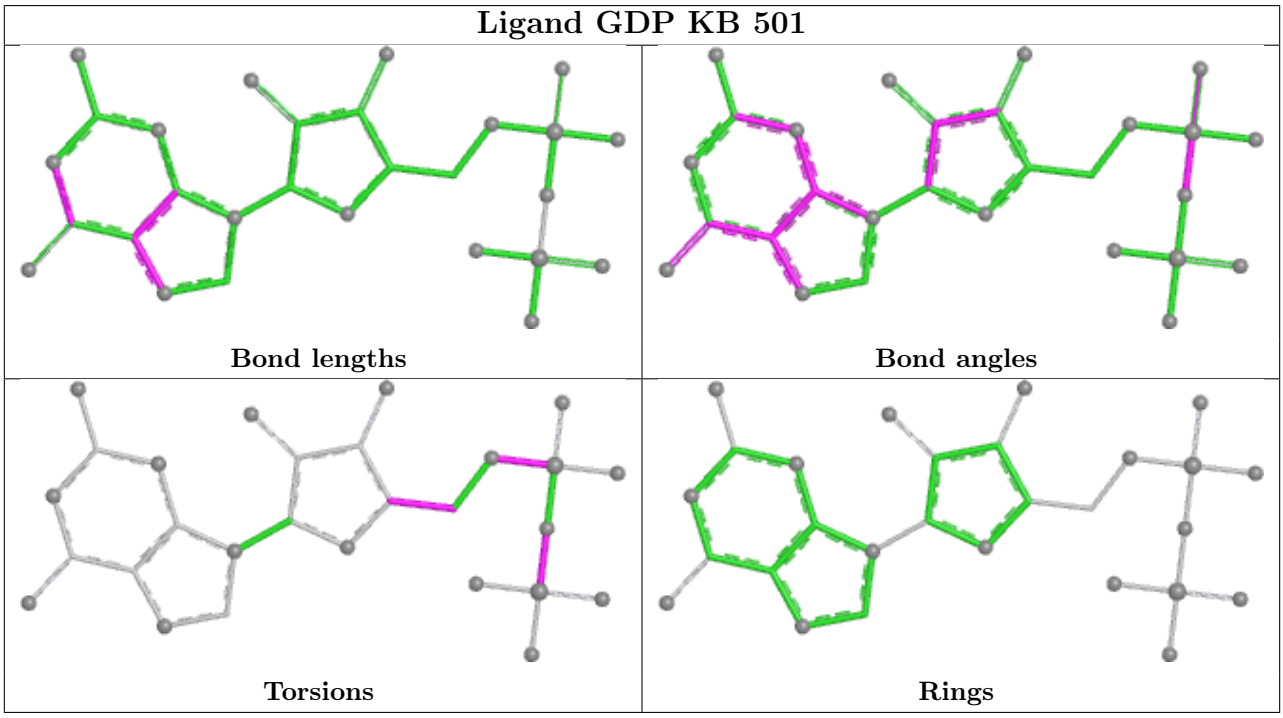

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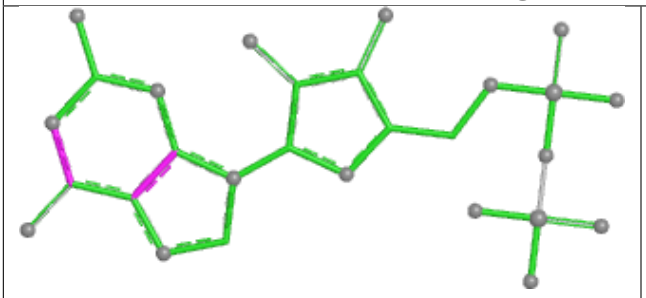

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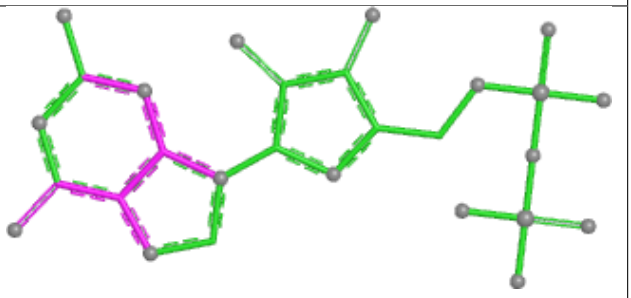
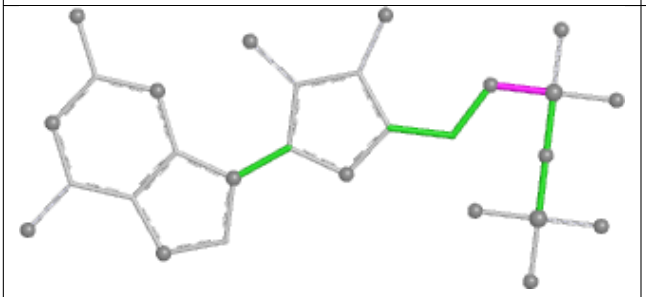
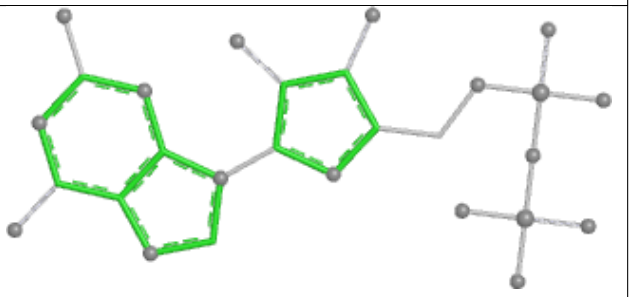


Bond angles

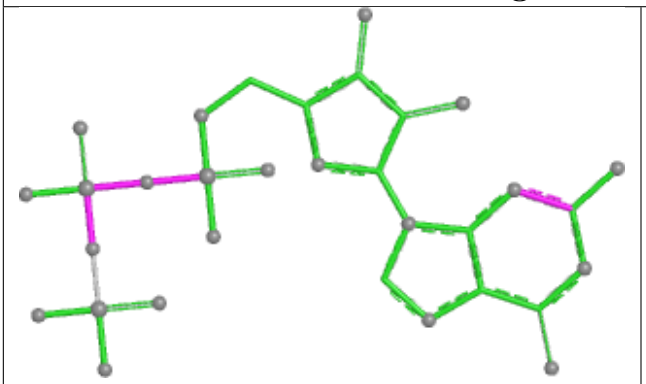


Torsions



Rings

Ligand GTP HL 502



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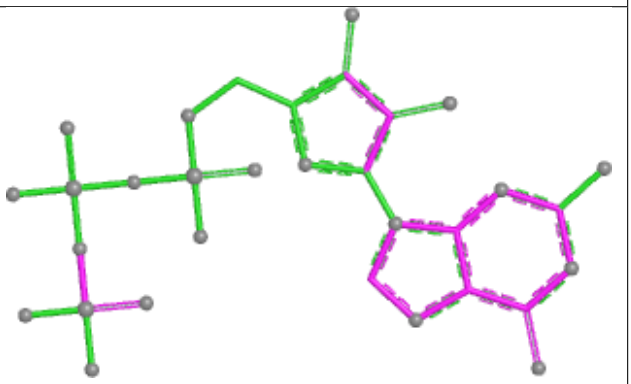

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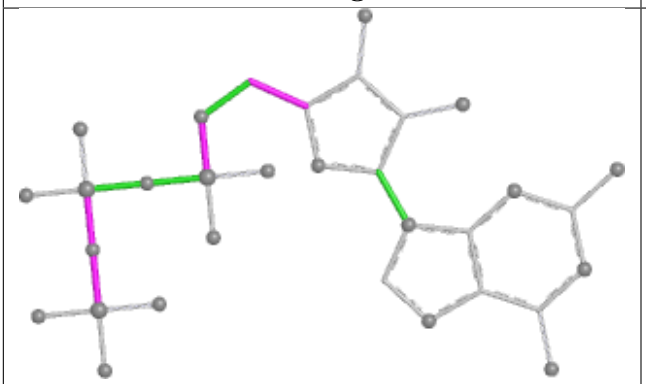

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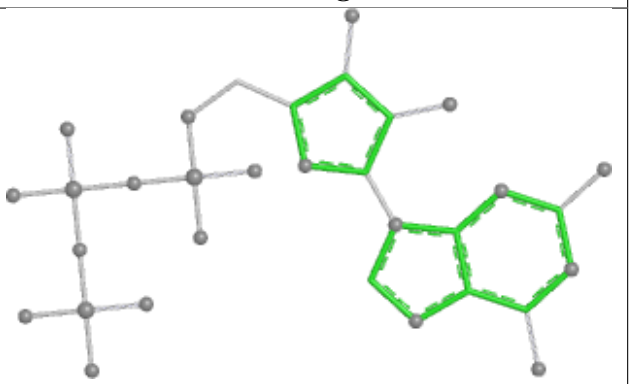
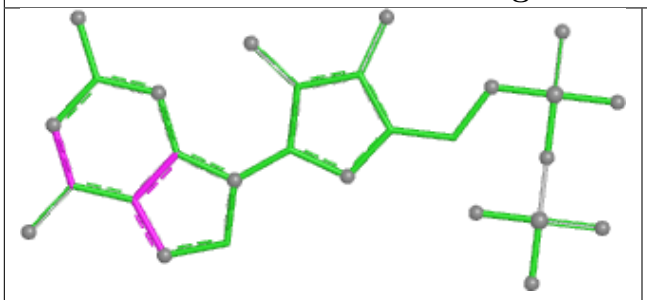


Rings

Ligand GDP KJ 501



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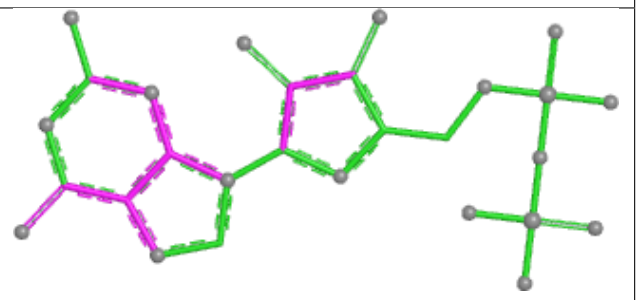

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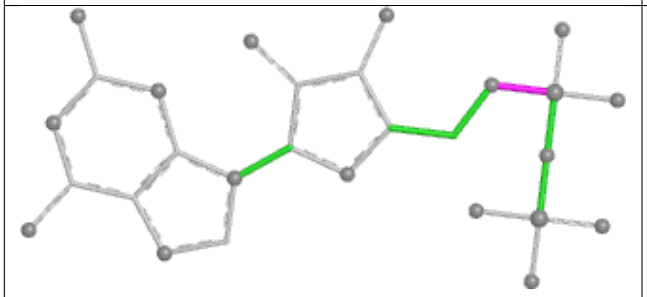

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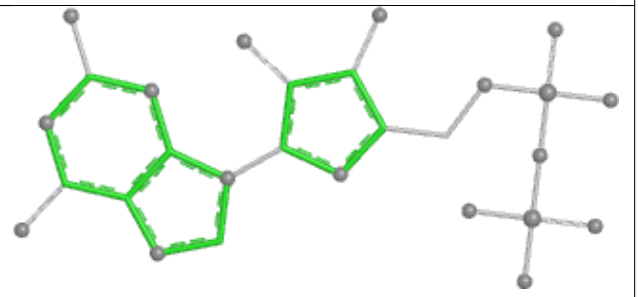
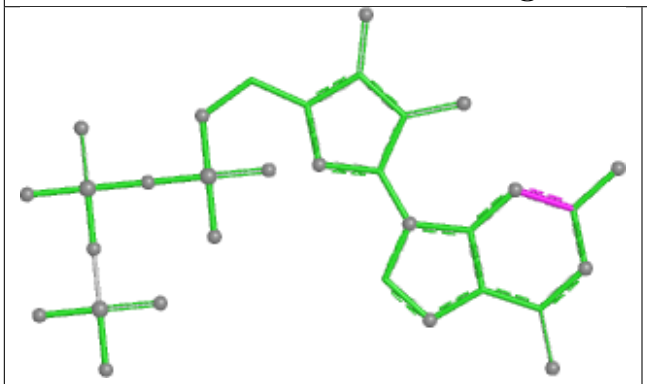


Rings

Ligand GTP FI 501



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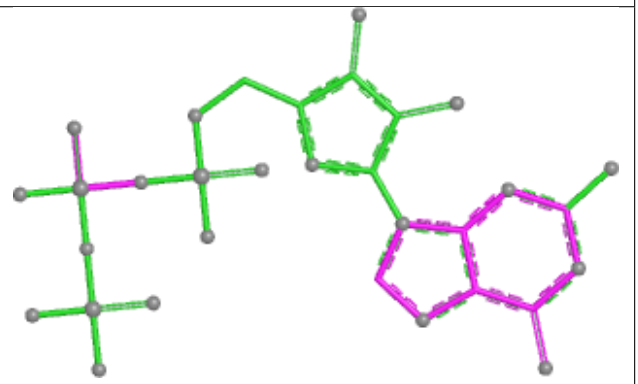

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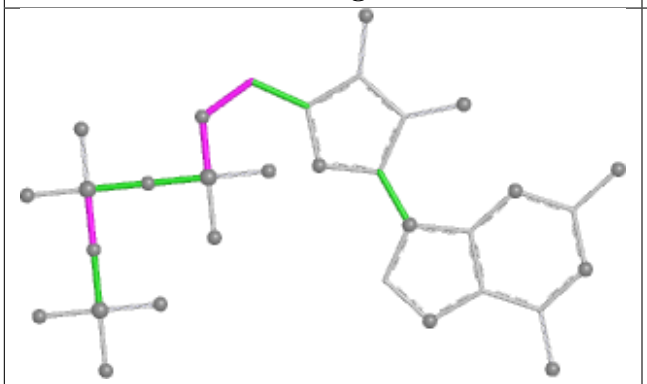

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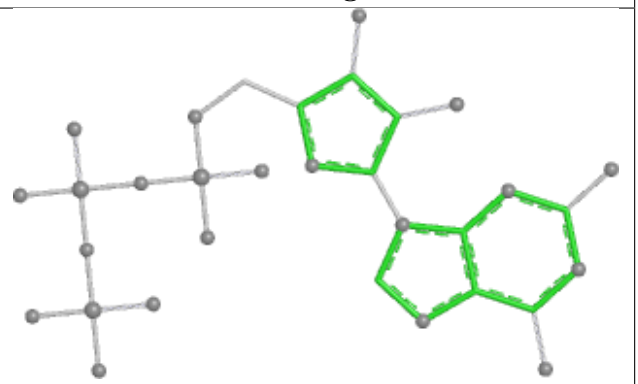
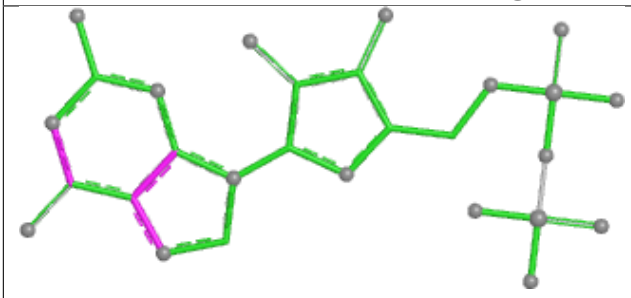


Rings

Ligand GDP KF 501



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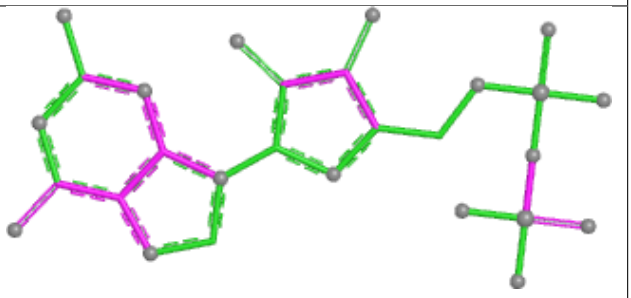

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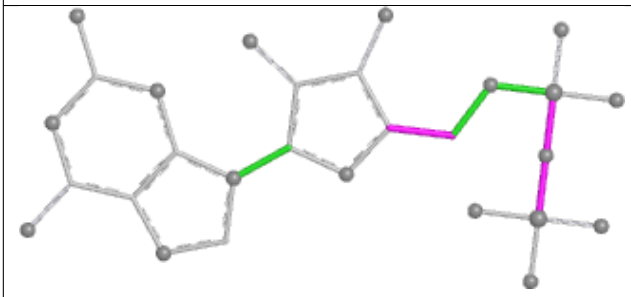

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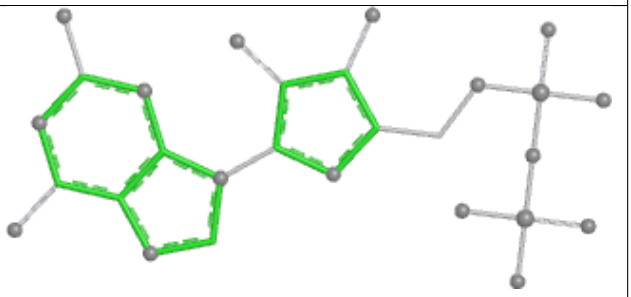
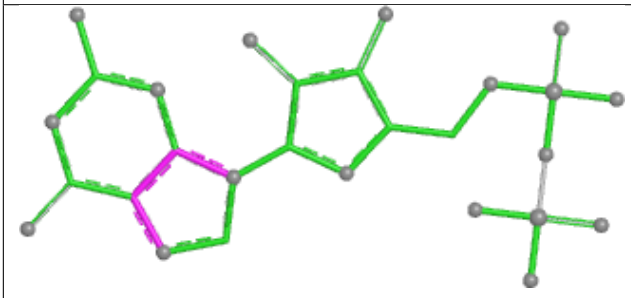


Rings

Ligand GDP LH 501



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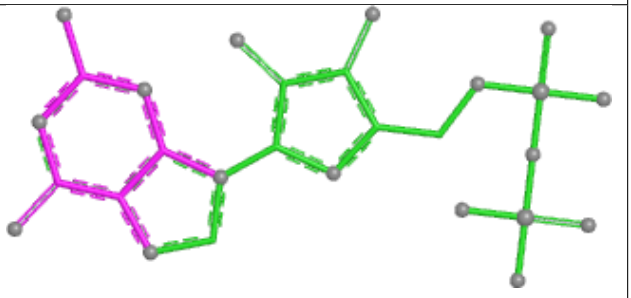

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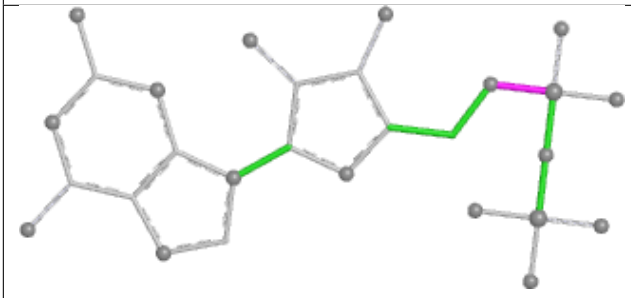

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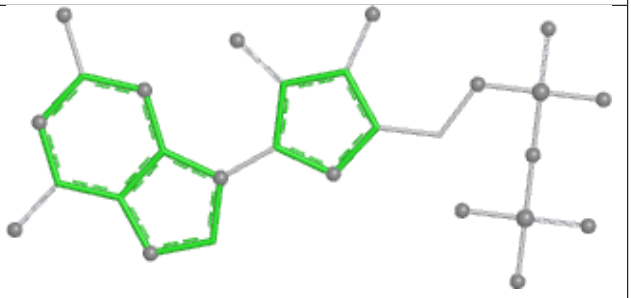
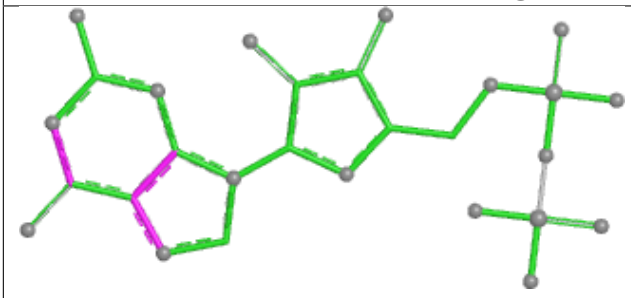
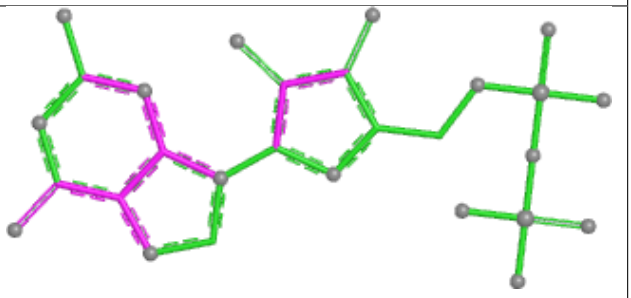
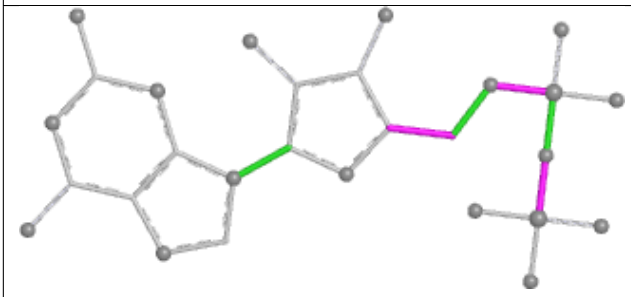
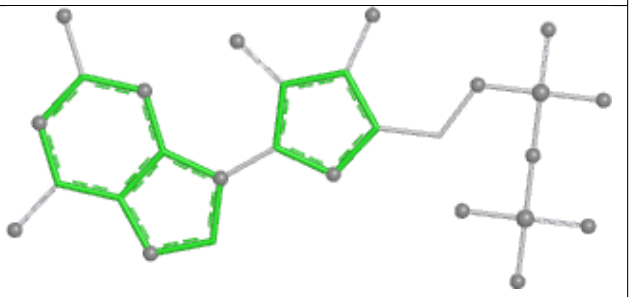
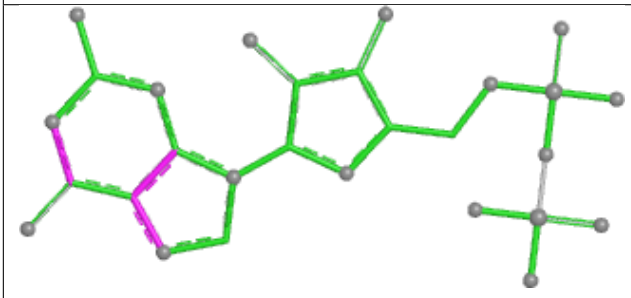
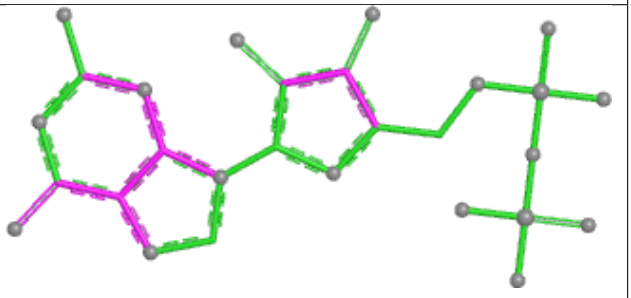
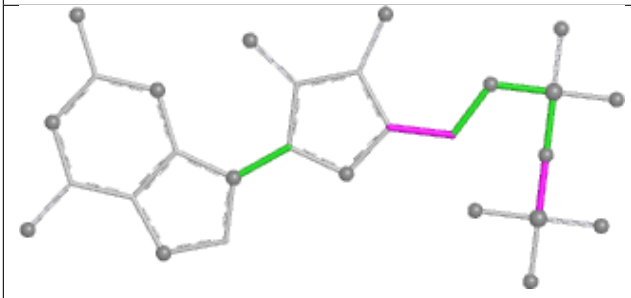
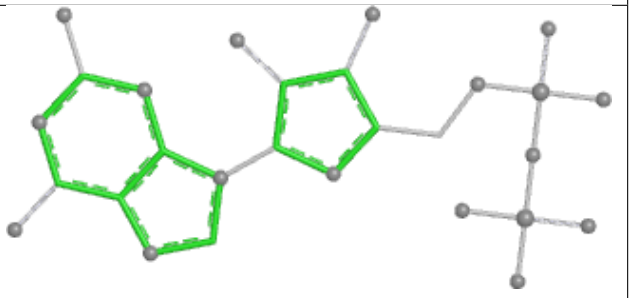
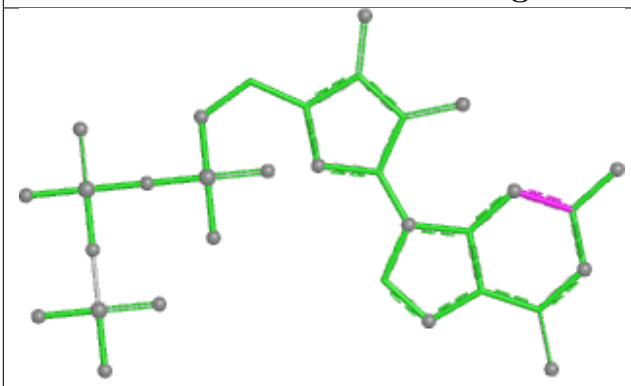


Rings

Ligand GDP O0 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP JN 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP TE 501



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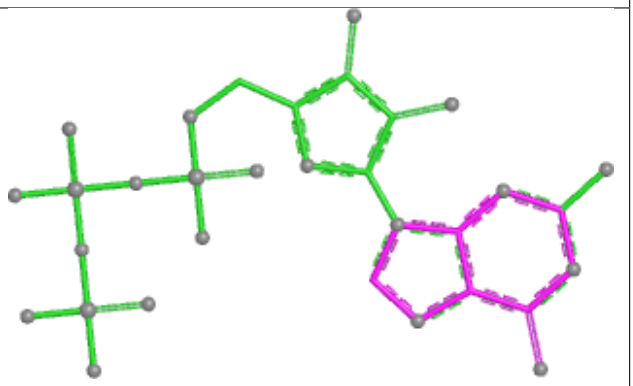

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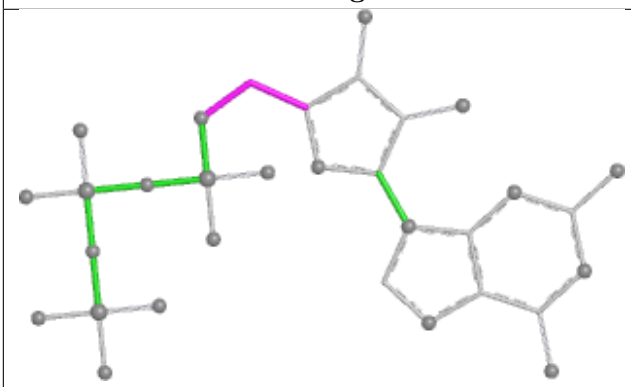

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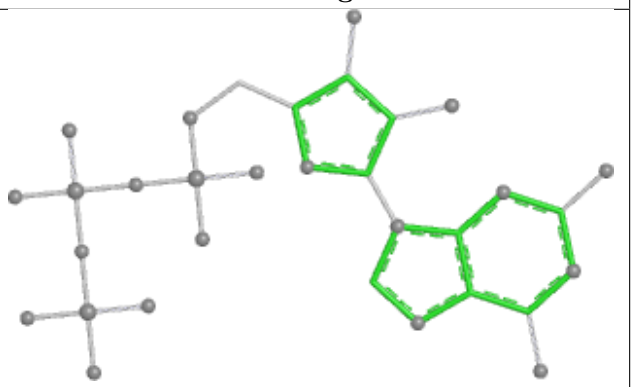
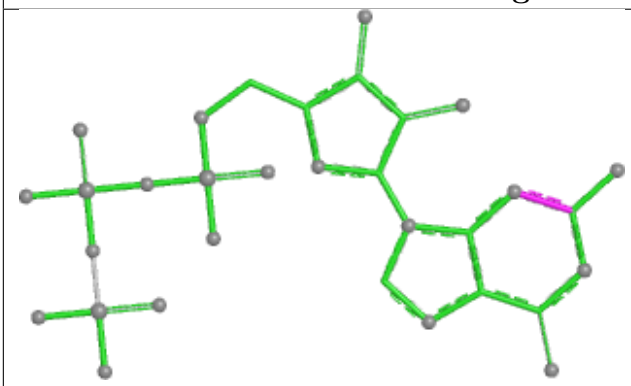


Rings

Ligand GTP JK 501



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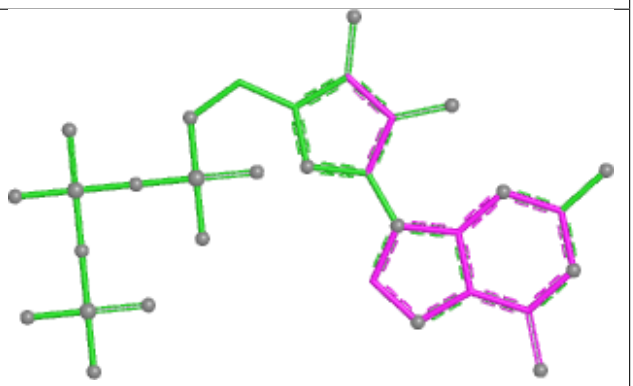

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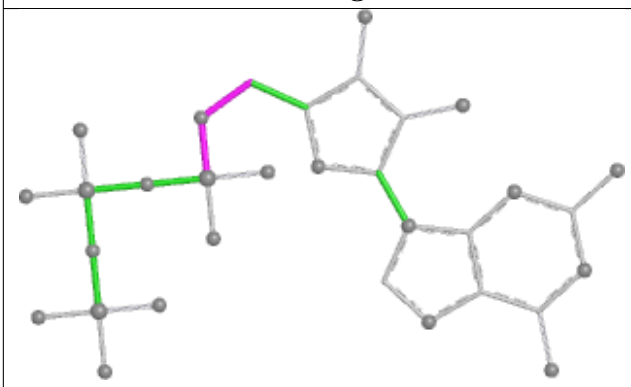

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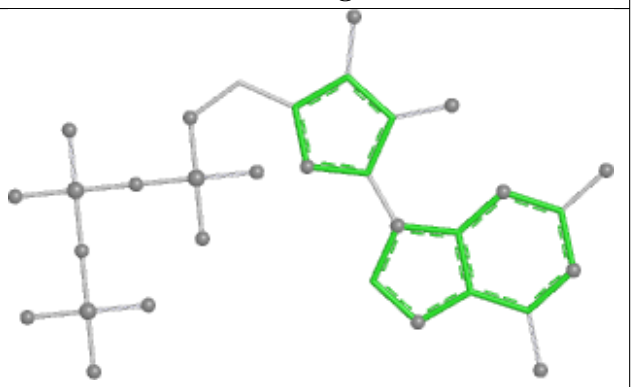
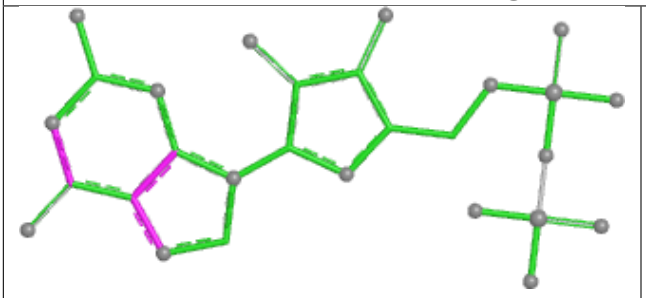


Rings

Ligand GDP WL 501



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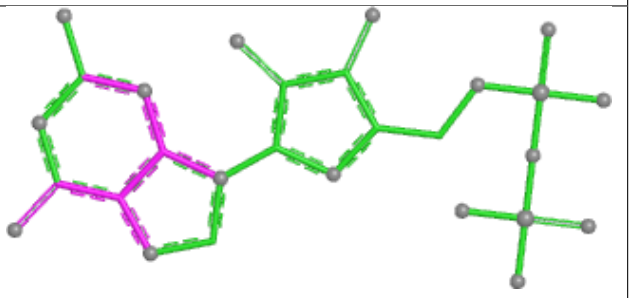

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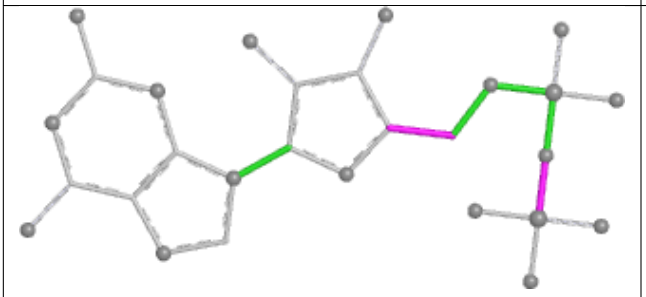

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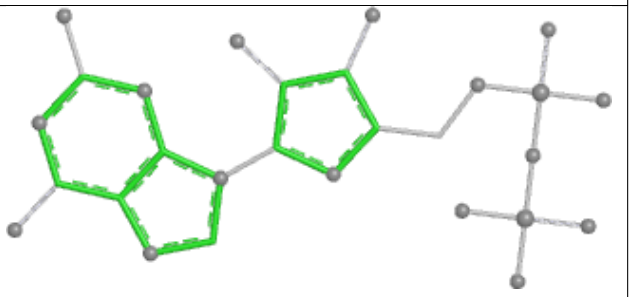
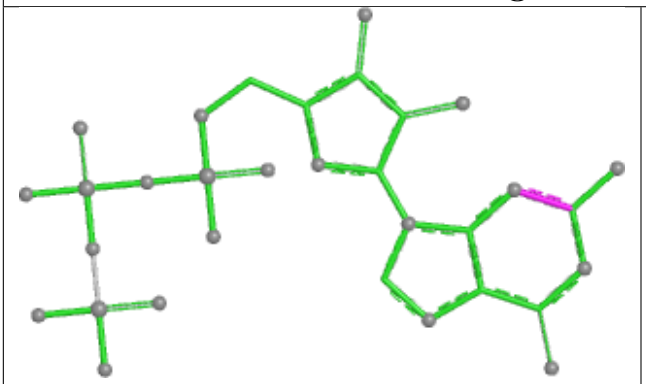


Rings

Ligand GTP BG 501



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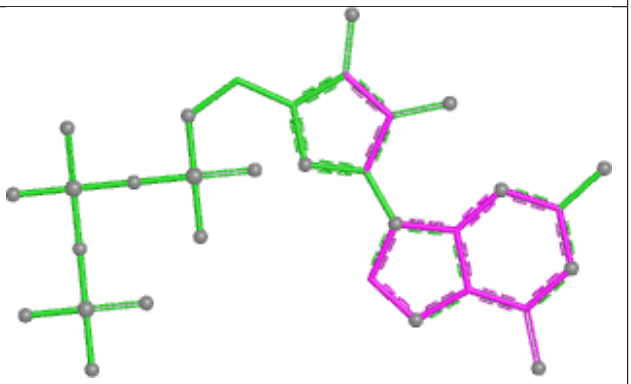

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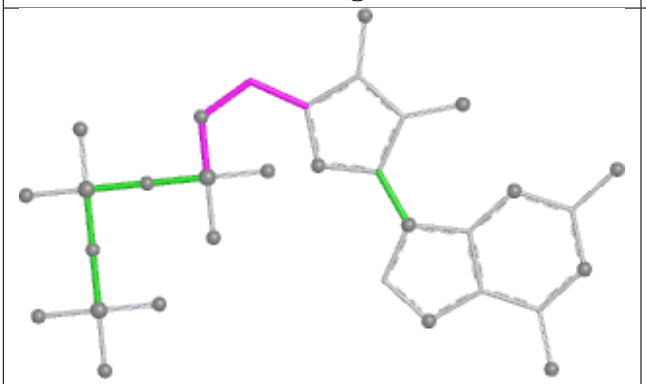

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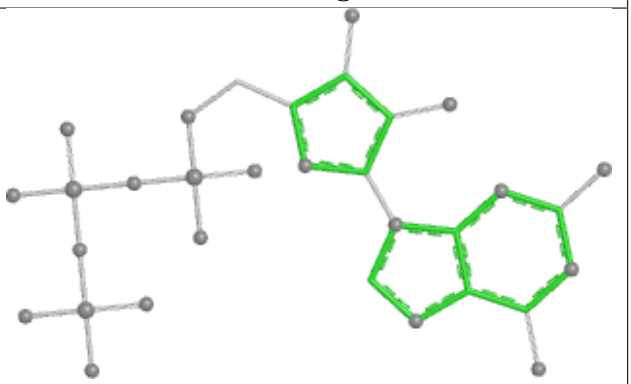
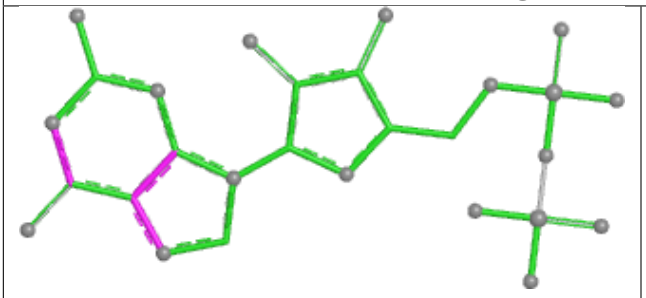


Rings

Ligand GDP FJ 501



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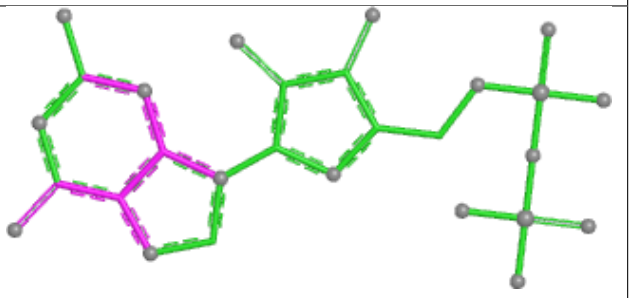

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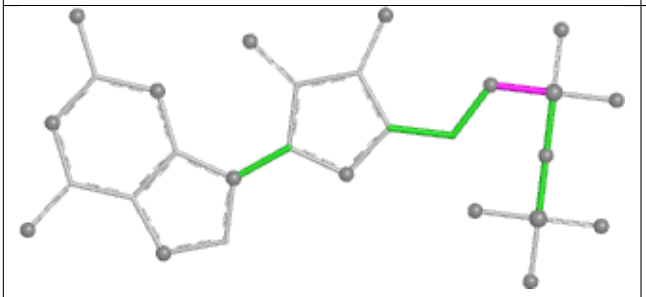

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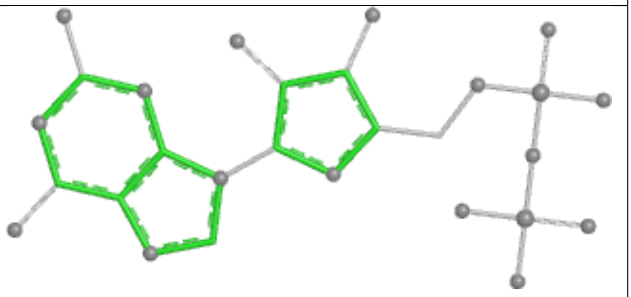
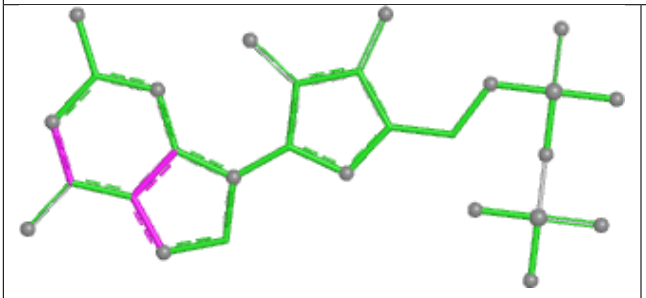


Rings

Ligand GDP TD 501



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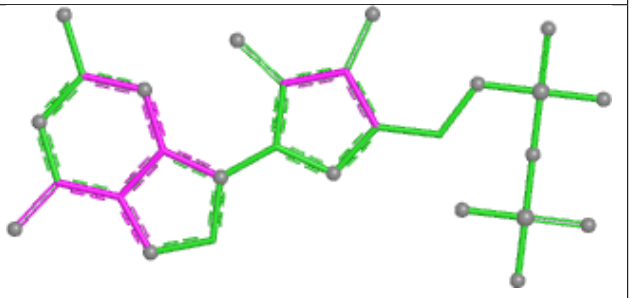
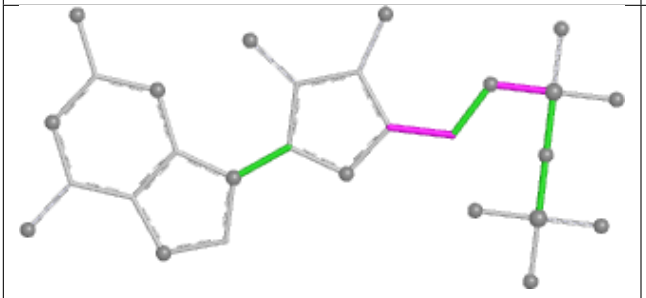
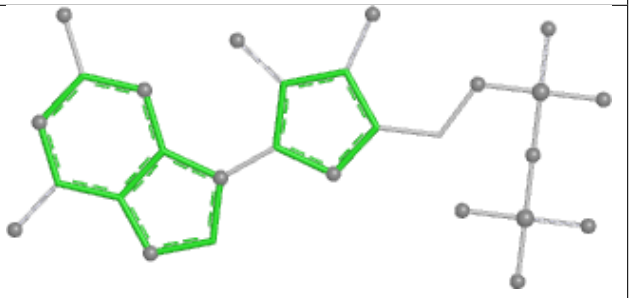


Bond angles

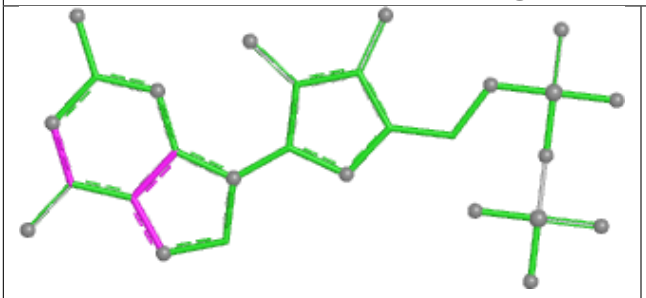


Torsions

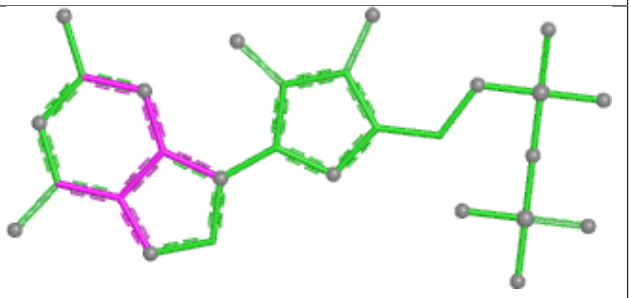


Rings

Ligand GDP HJ 501



Bond lengths



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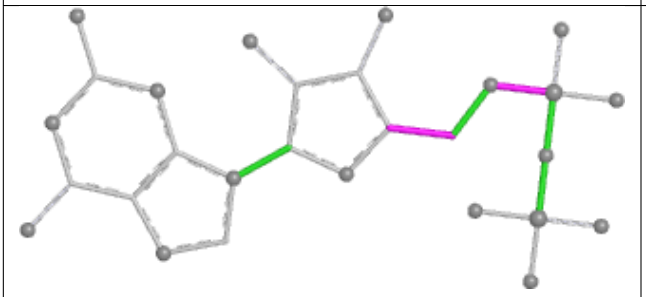
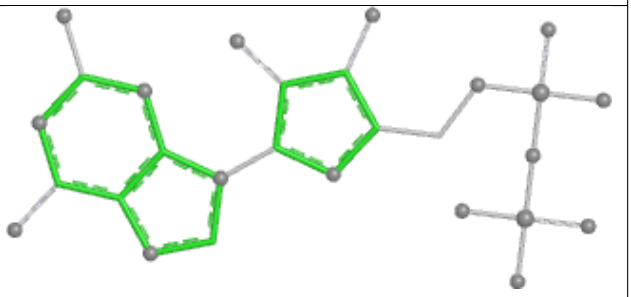
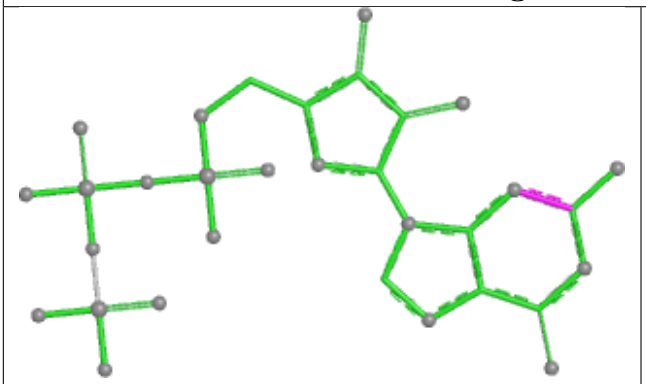


Torsions



Rings

Ligand GTP CD 502



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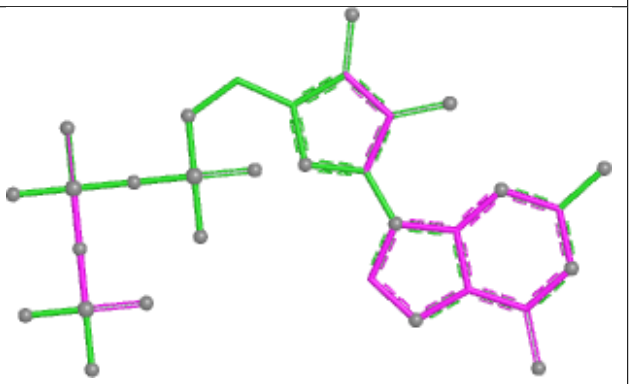

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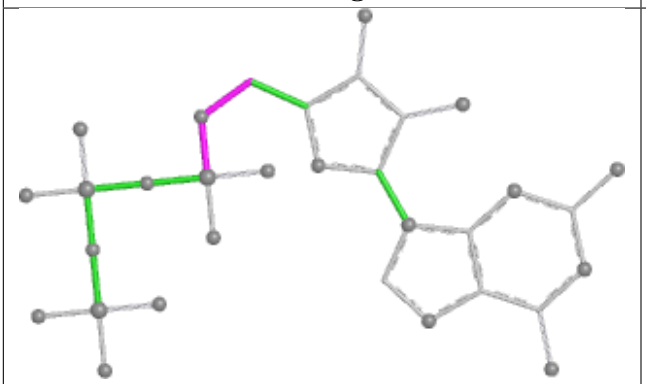

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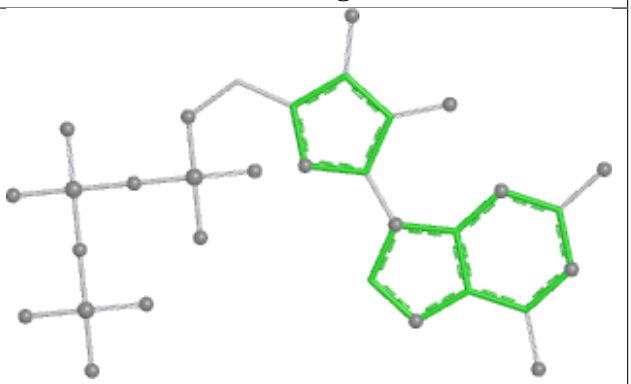
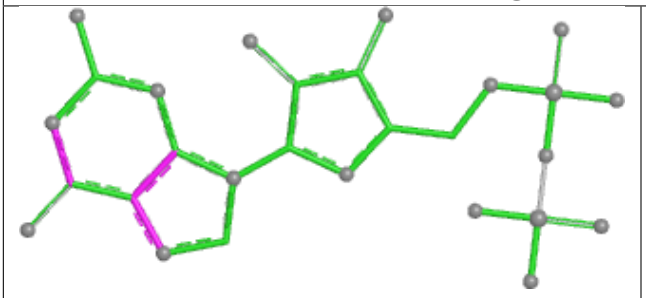


Rings

Ligand GDP VB 501



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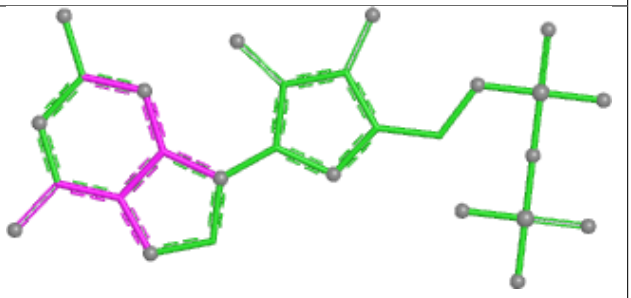

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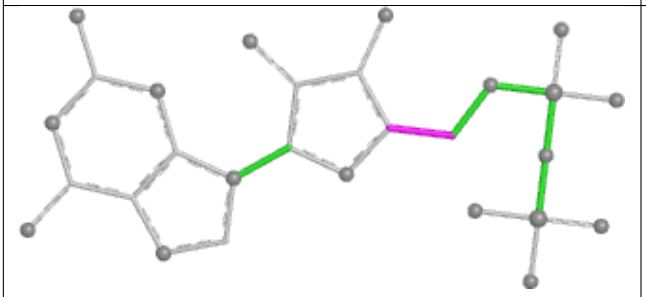

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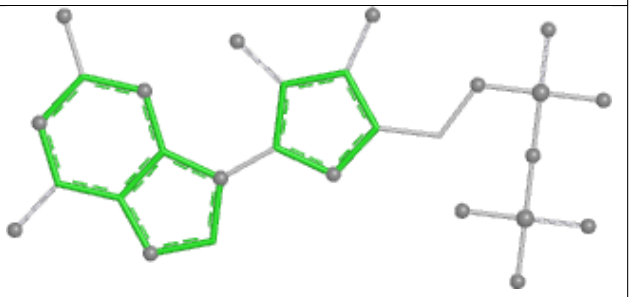
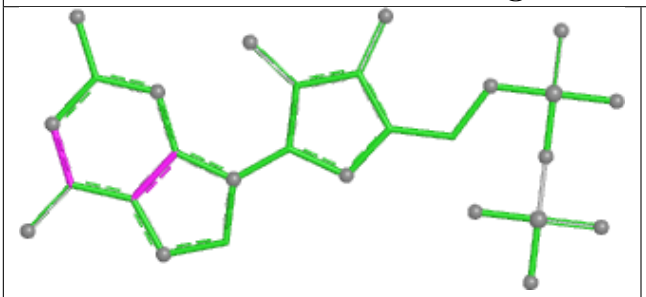


Rings

Ligand GDP VD 501



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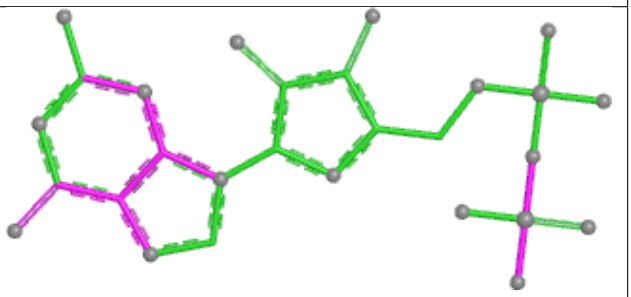

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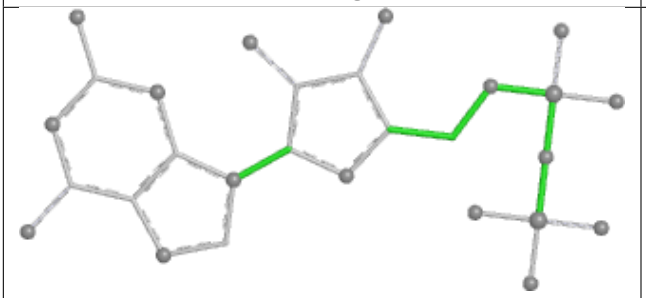

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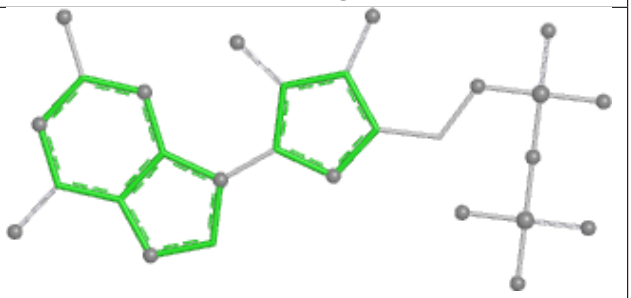
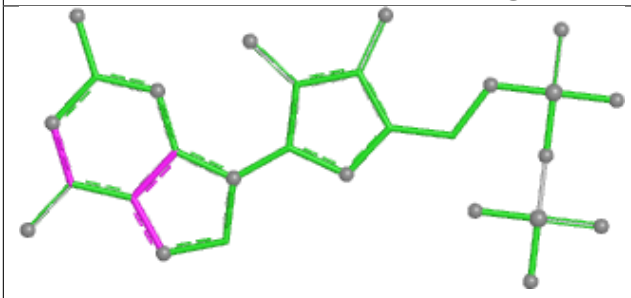
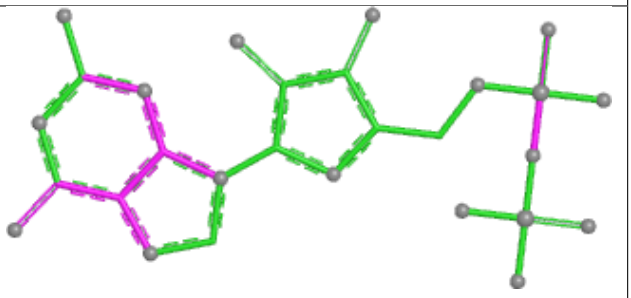
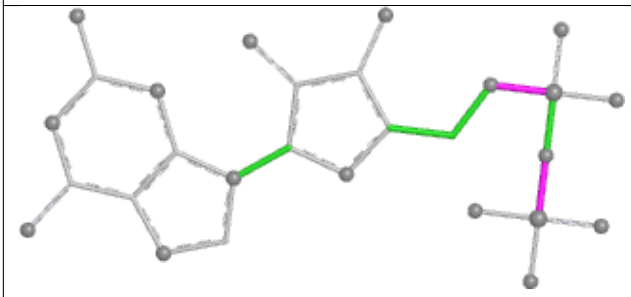
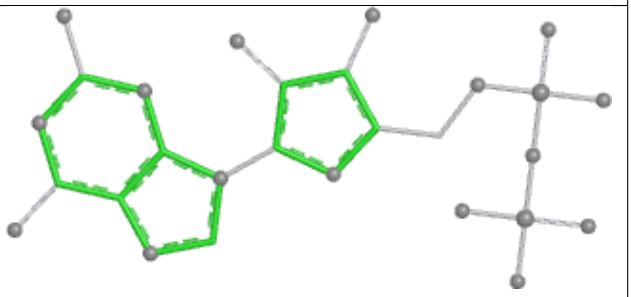
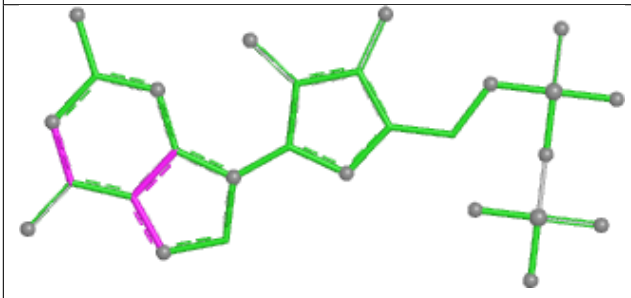
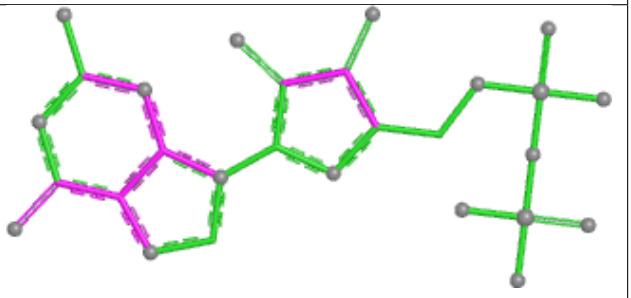
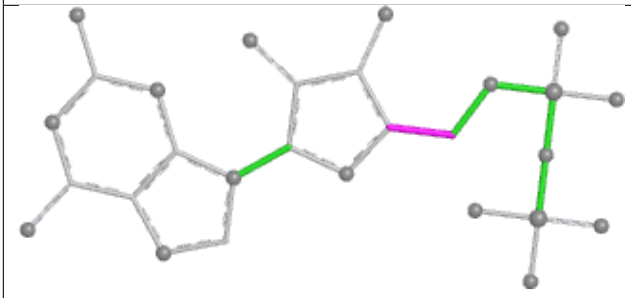
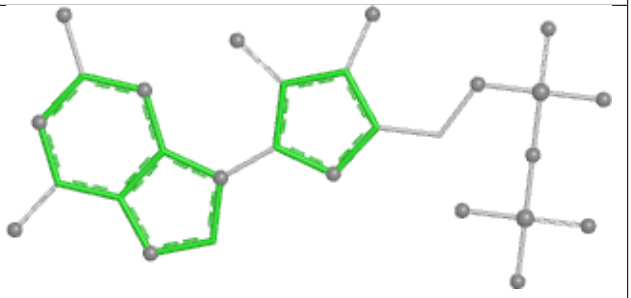


Rings

Ligand GDP WF 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP WJ 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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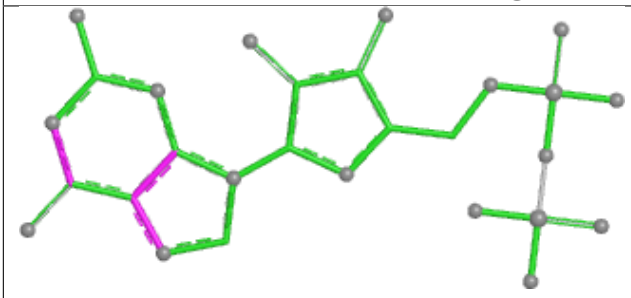
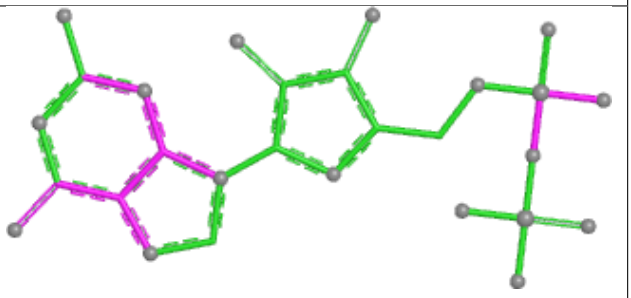
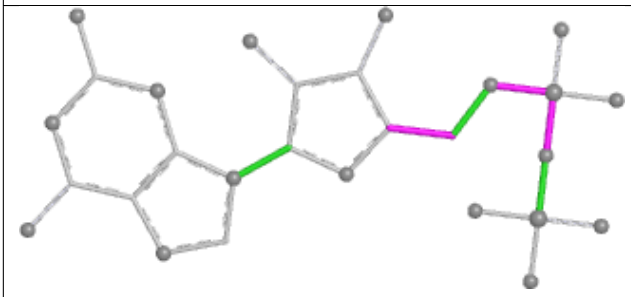
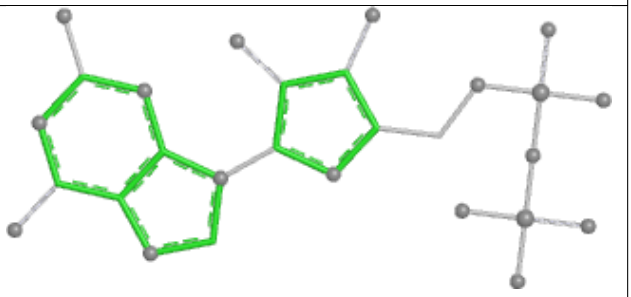
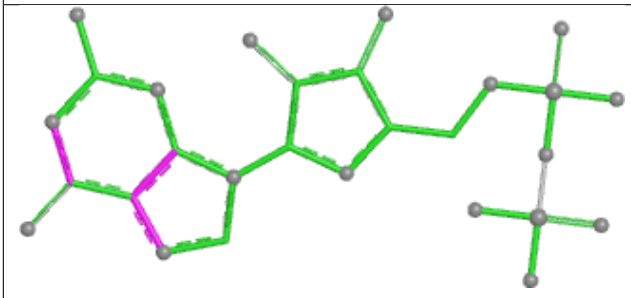
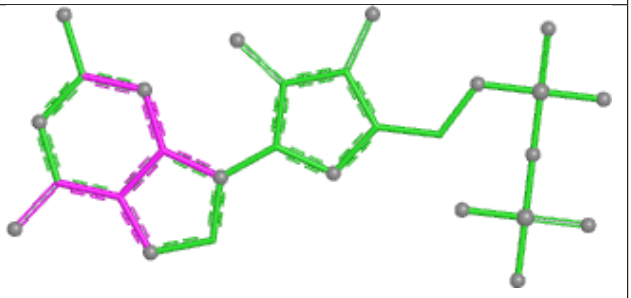
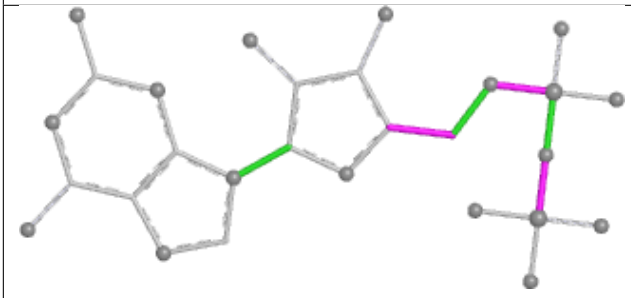
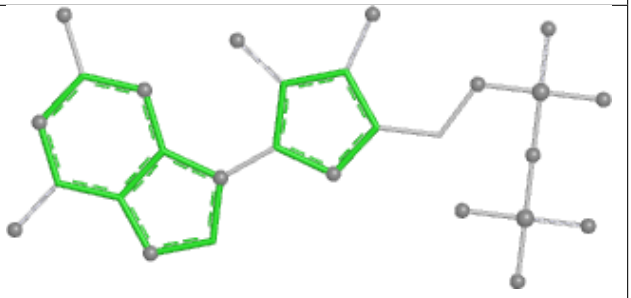
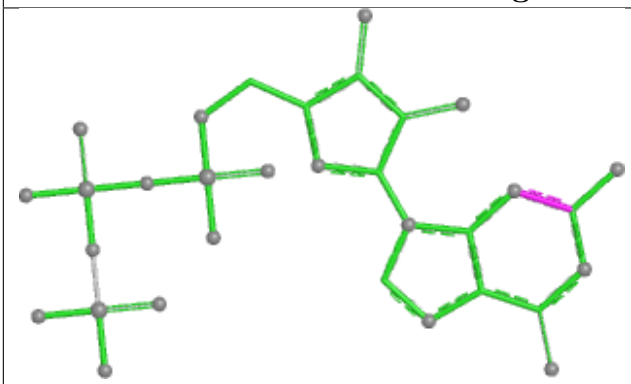
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP JH 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP CL 502



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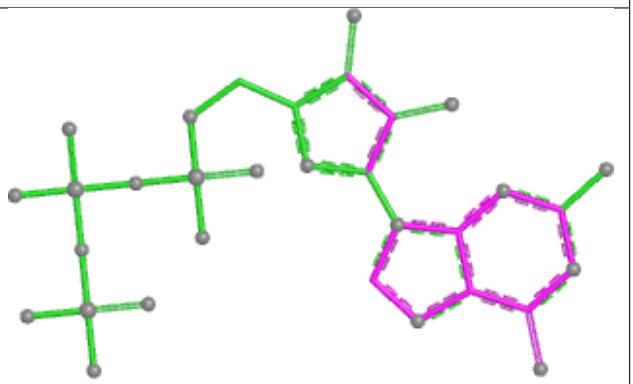

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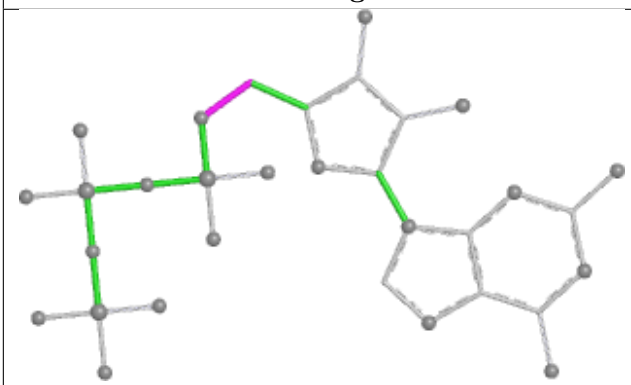

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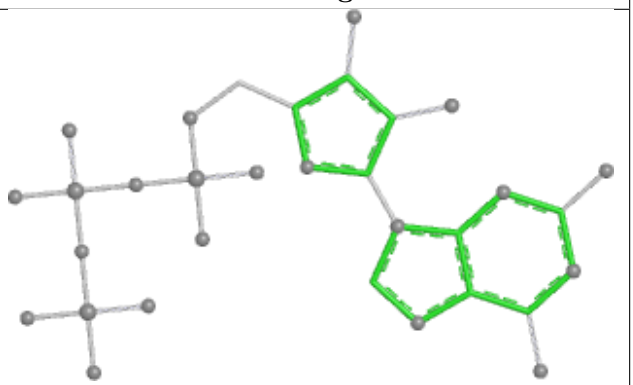
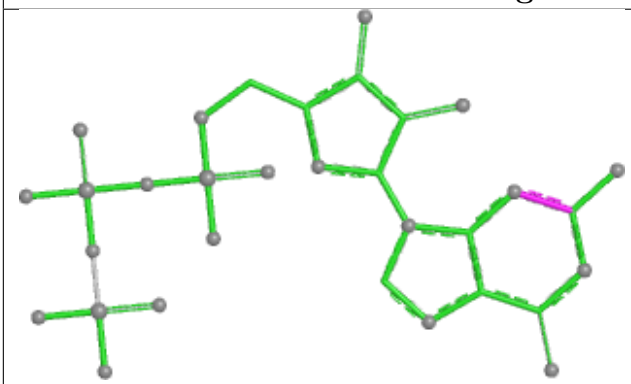


Rings

Ligand GTP IC 501



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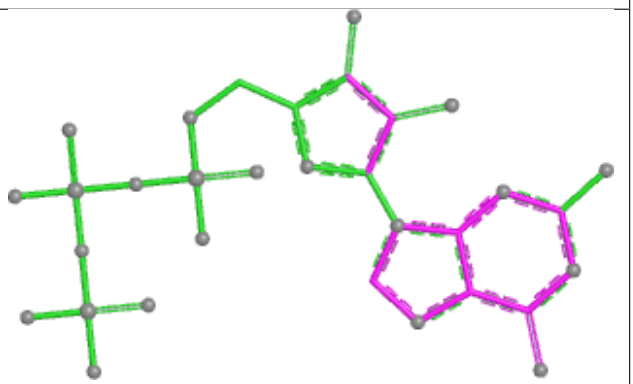

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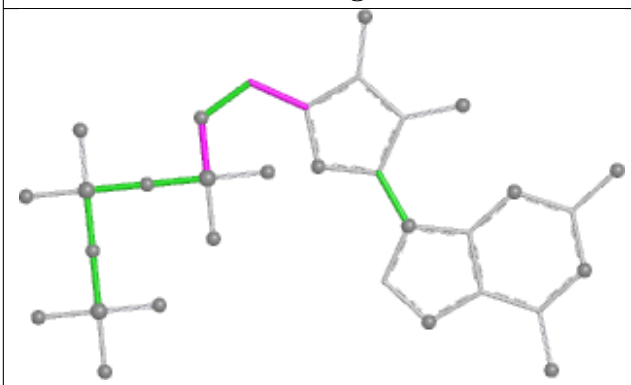

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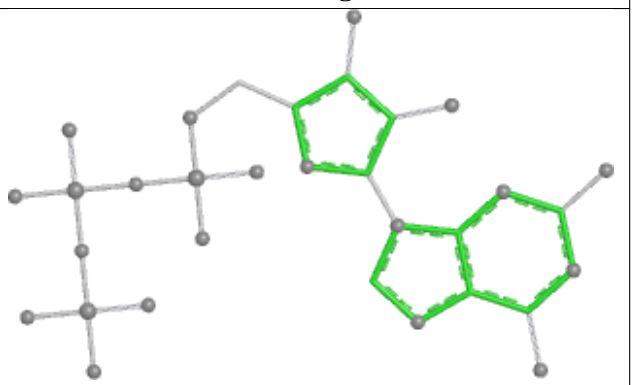
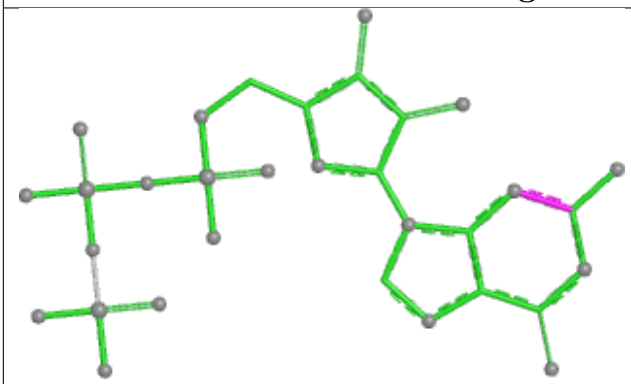


Rings

Ligand GTP LI 501



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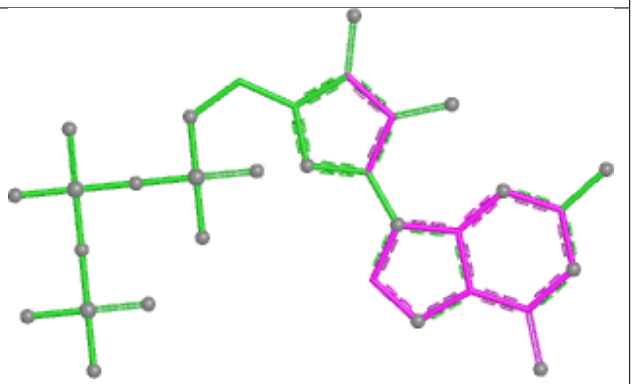

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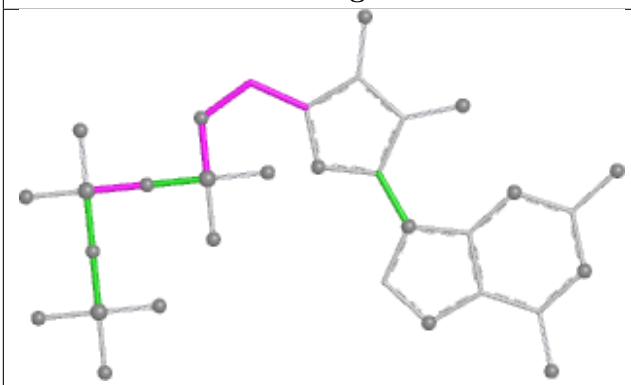

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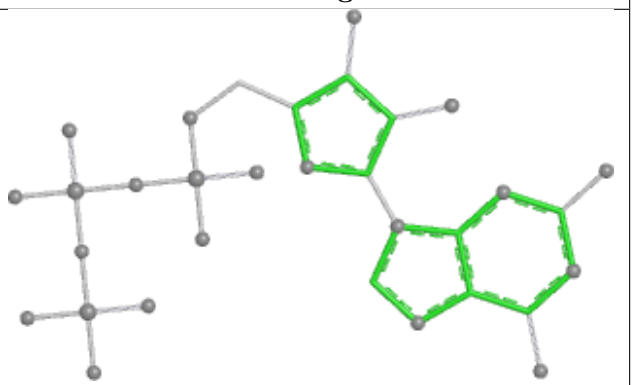
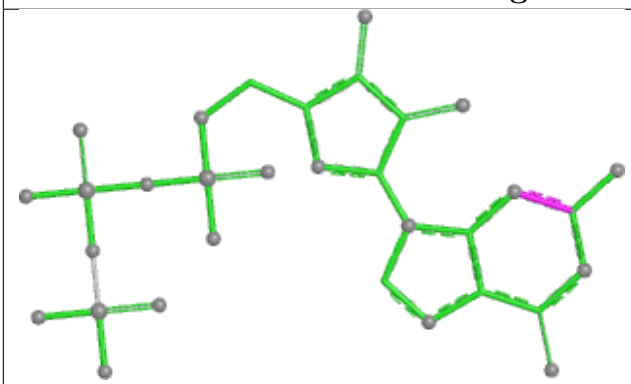


Rings

Ligand GTP DE 501



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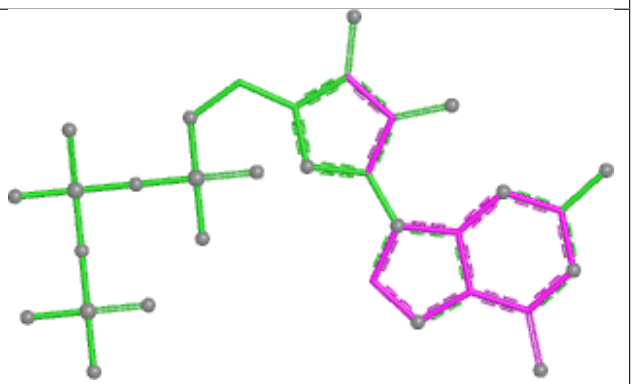

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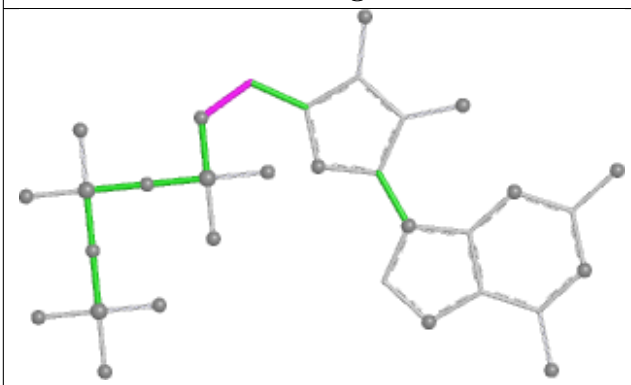

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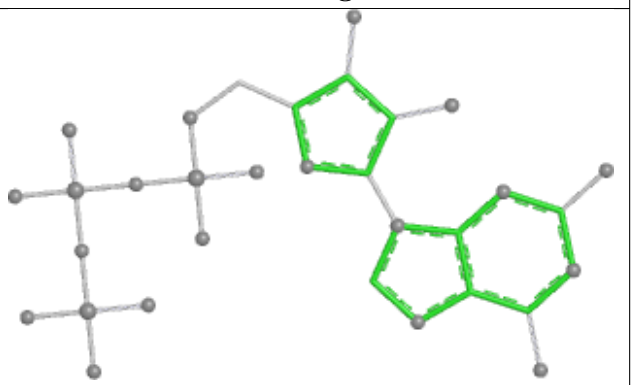
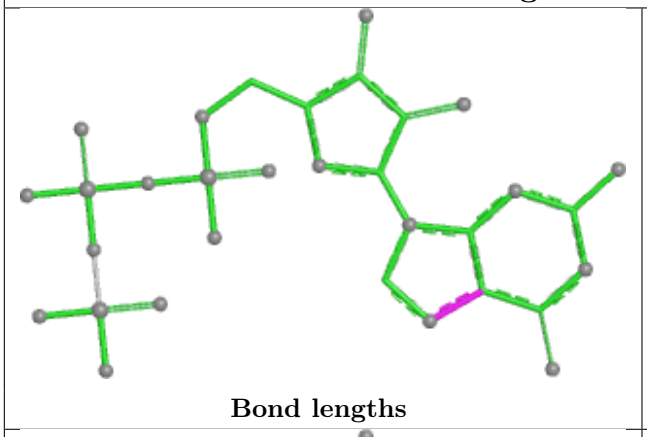


Rings

Ligand GTP SI 501



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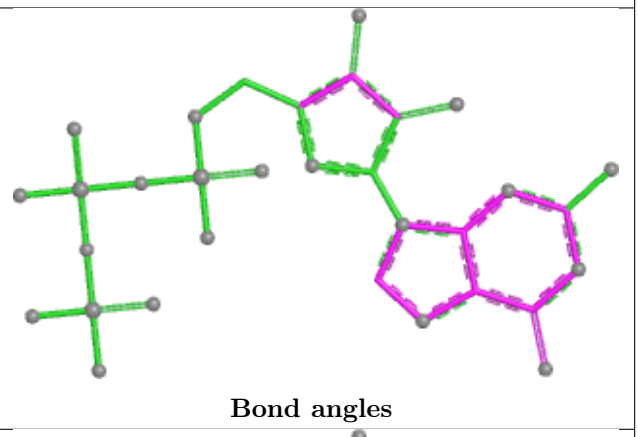
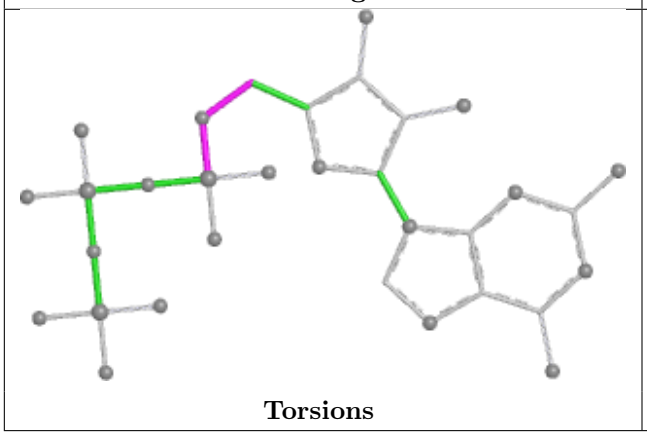


Bond angles



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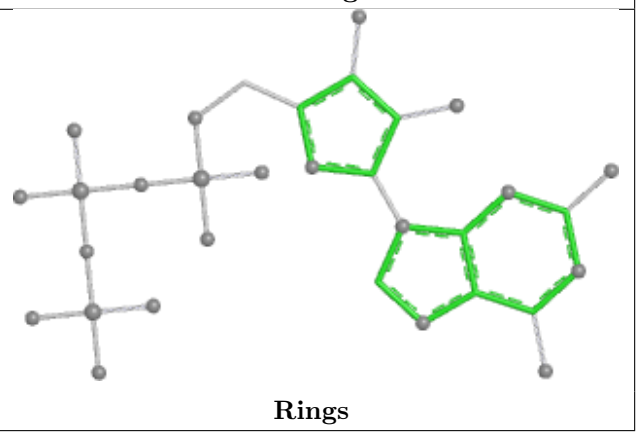
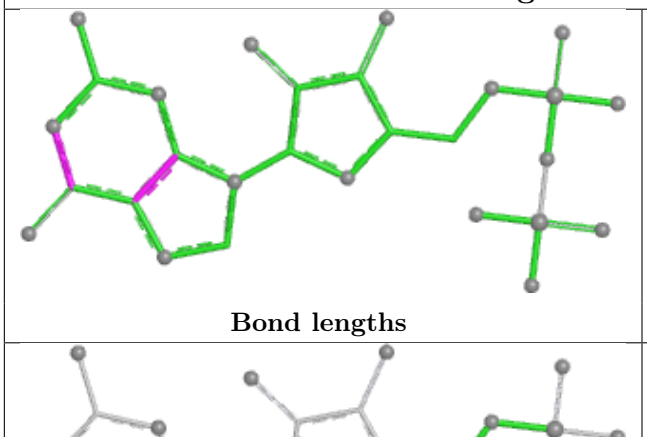


Rings

Ligand GDP IF 501



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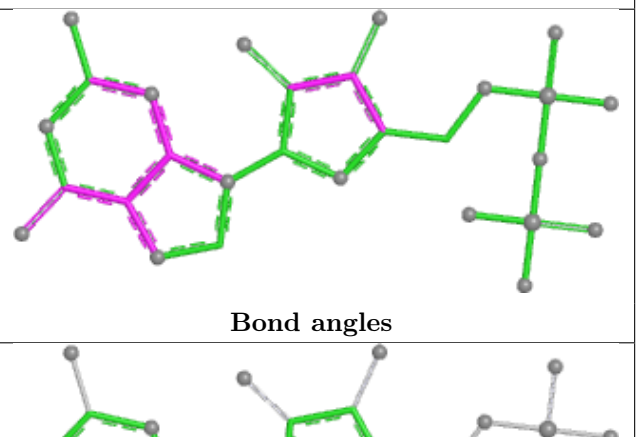
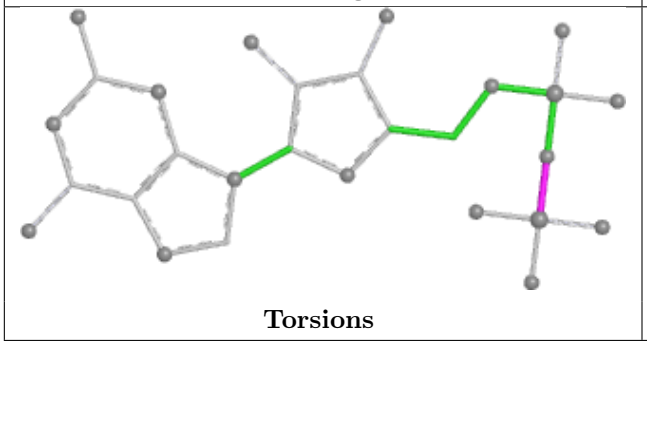


Bond angles



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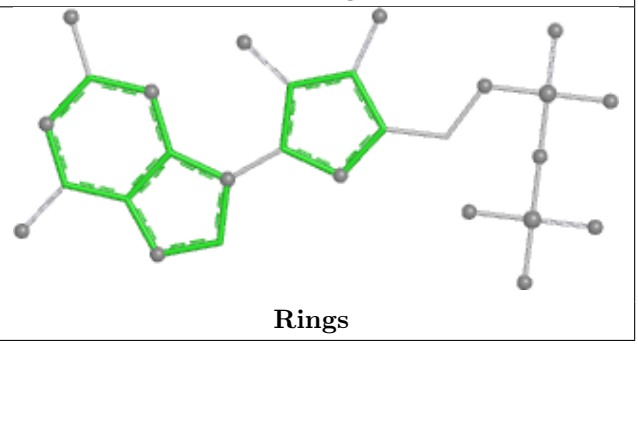
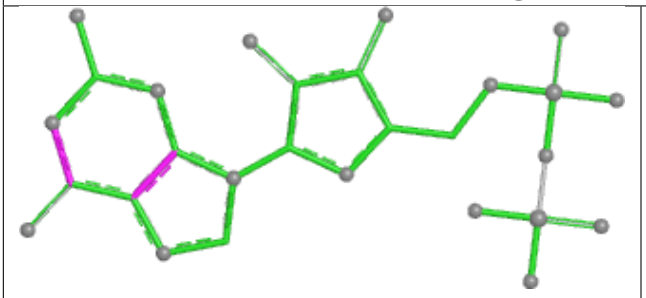


Rings

Ligand GDP OL 501



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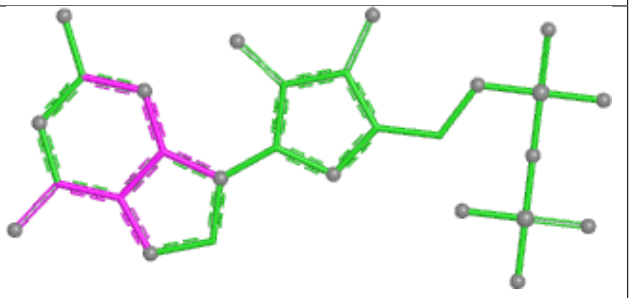

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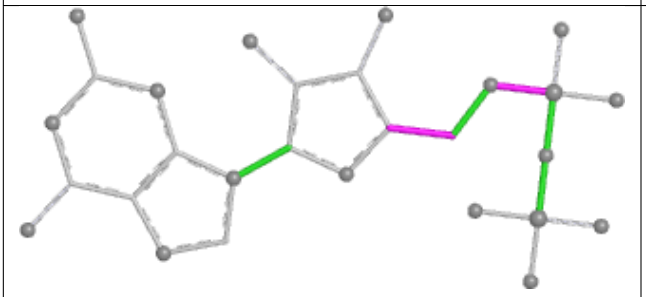
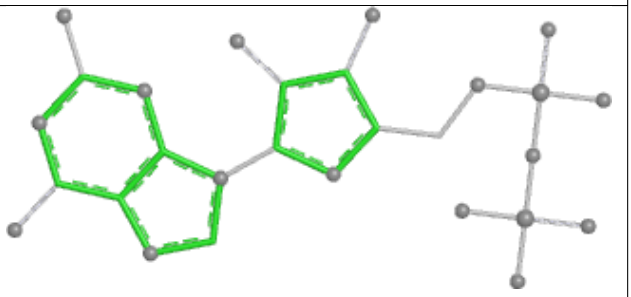
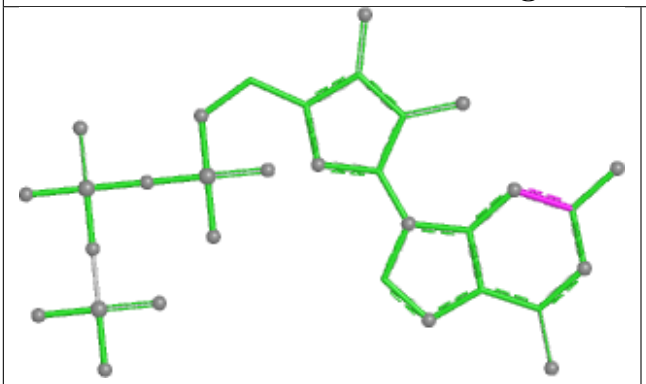


Torsions



Rings

Ligand GTP JI 501



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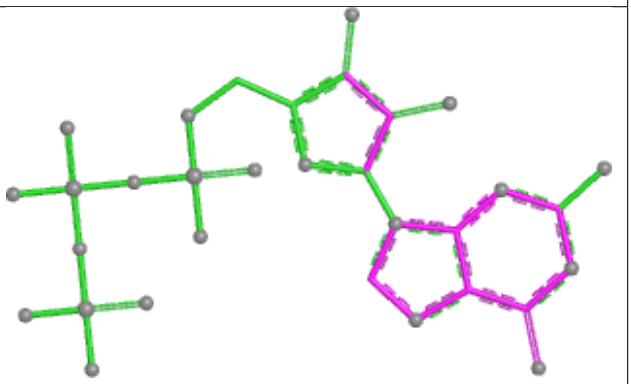

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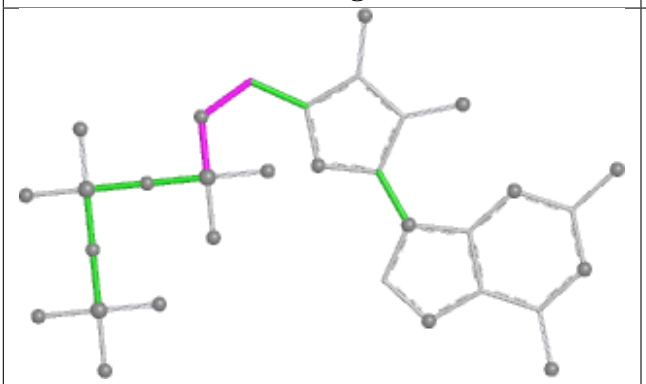

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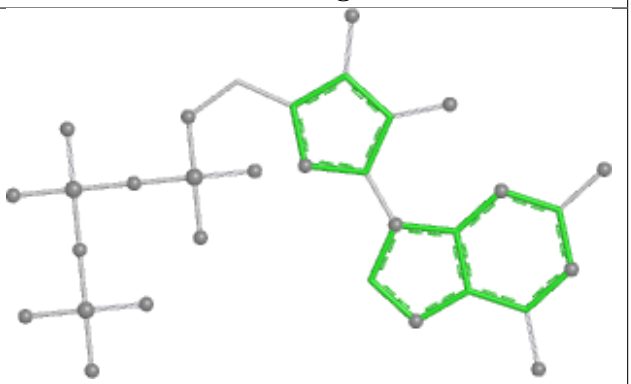
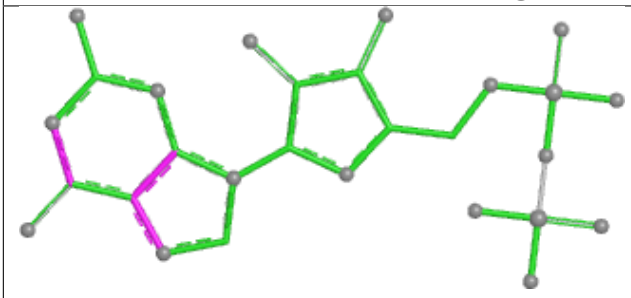
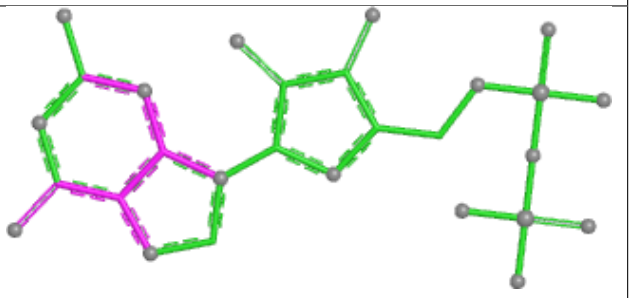


Rings

Ligand GDP JB 501	
	
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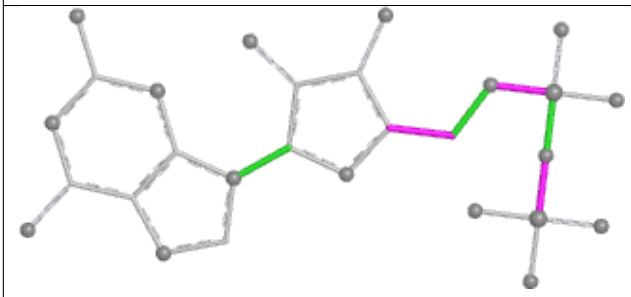
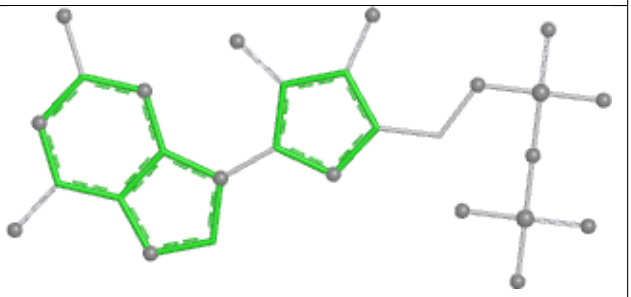
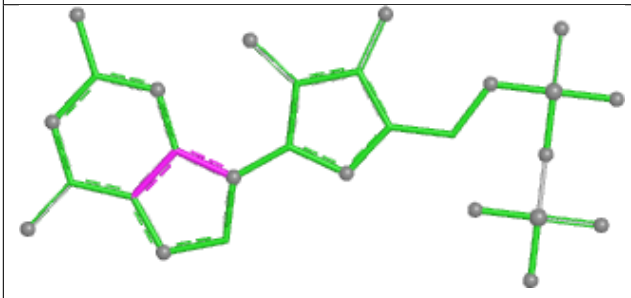
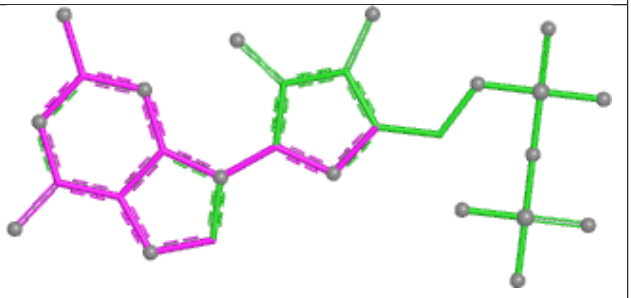
	
Torsions	Rings

Ligand GDP NH 501	
	
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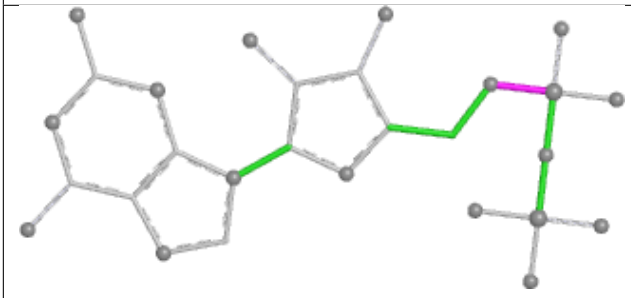
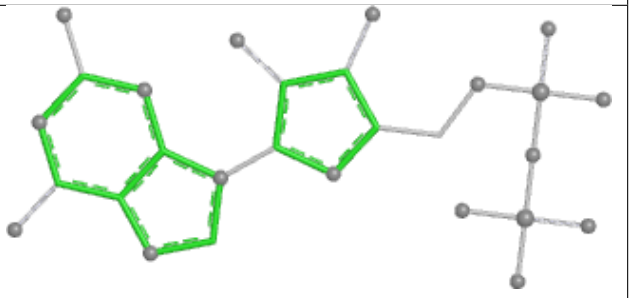
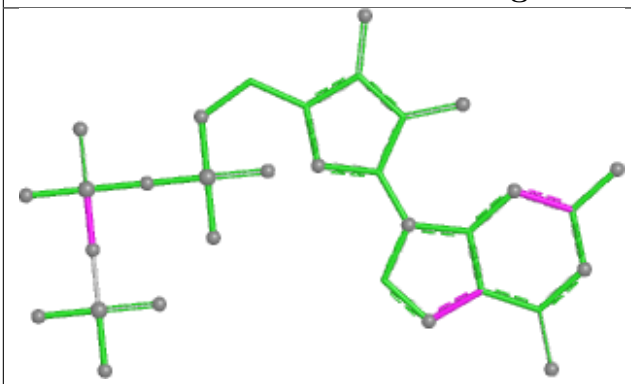
	
Torsions	Rings

Ligand GTP FG 501



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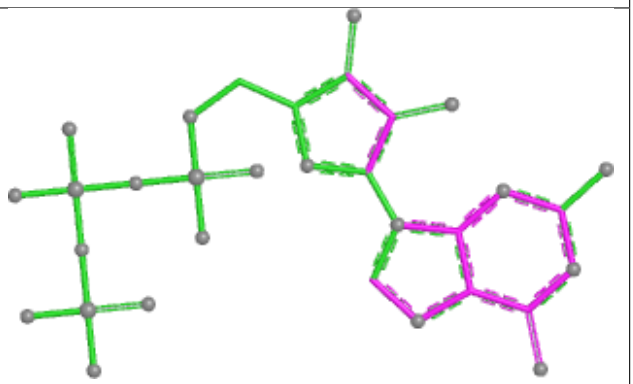

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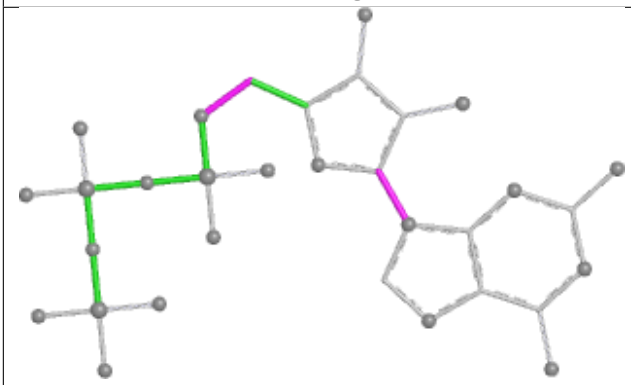

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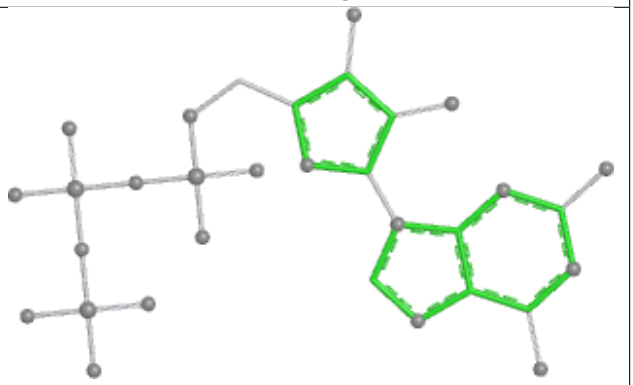
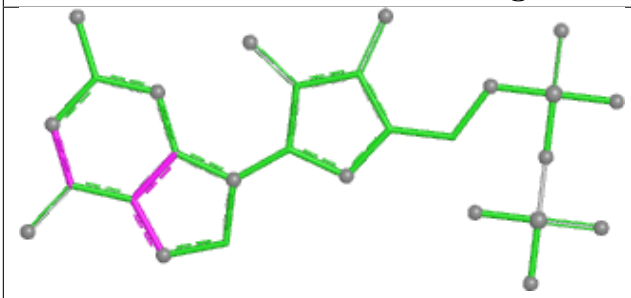


Rings

Ligand GDP NL 501



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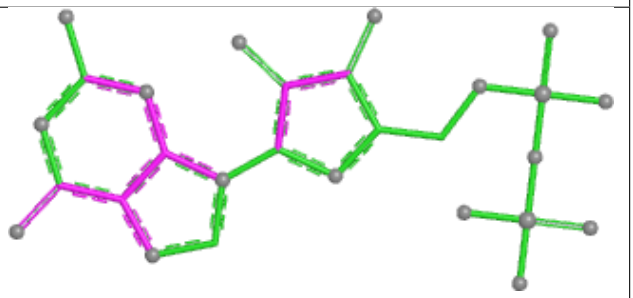

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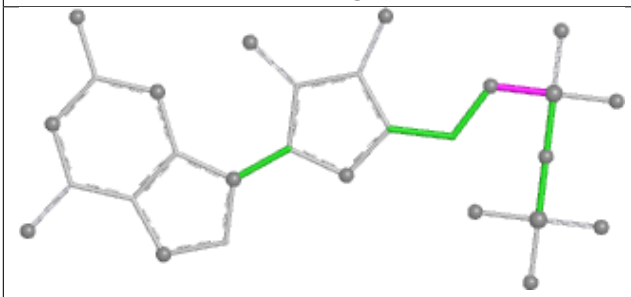

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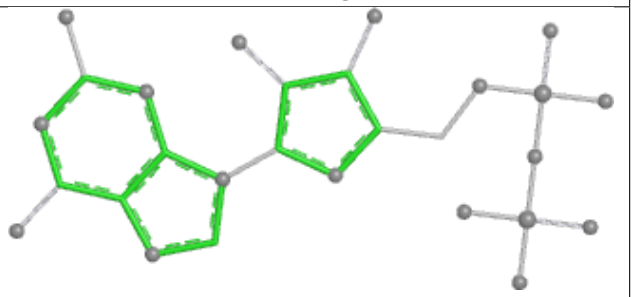
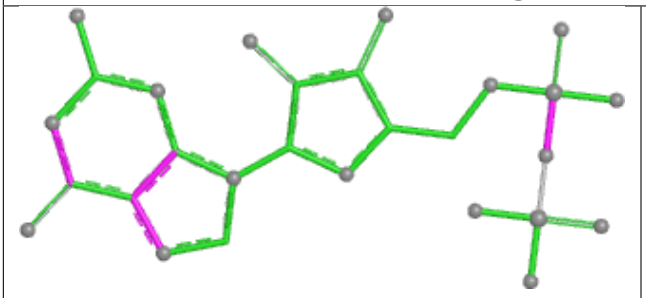


Rings

Ligand GDP QF 501



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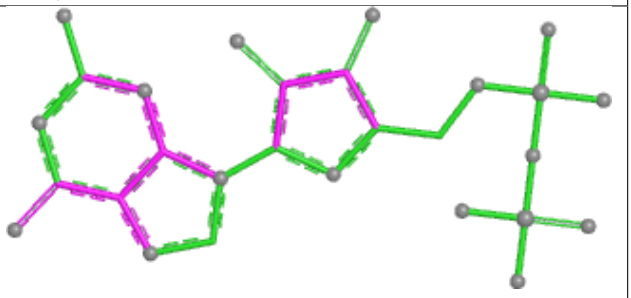

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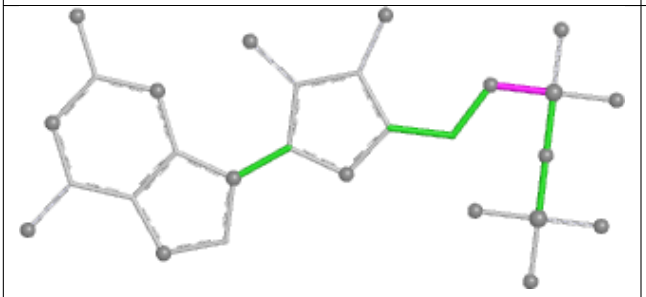

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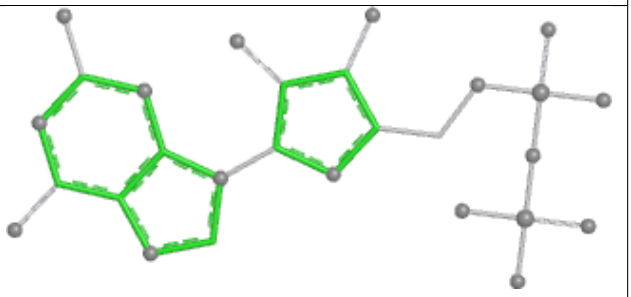
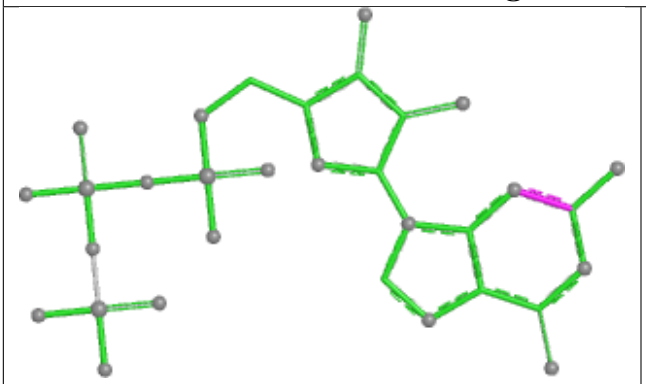


Rings

Ligand GTP GM 501



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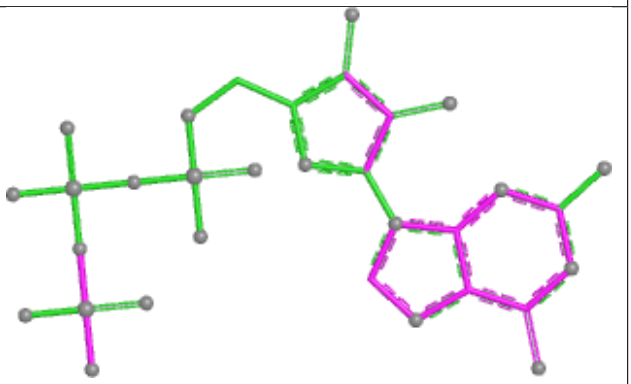

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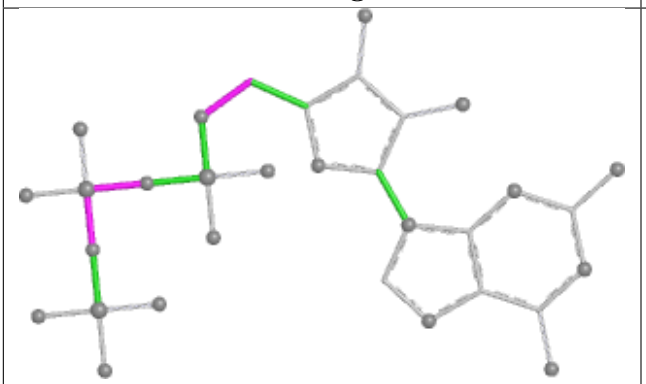

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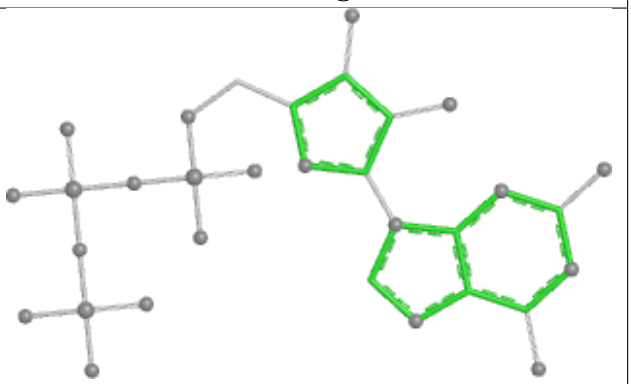
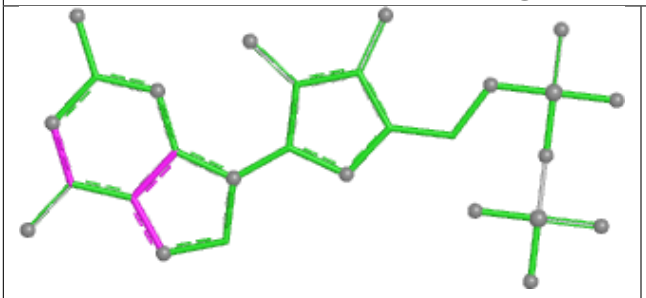


Rings

Ligand GDP JJ 501



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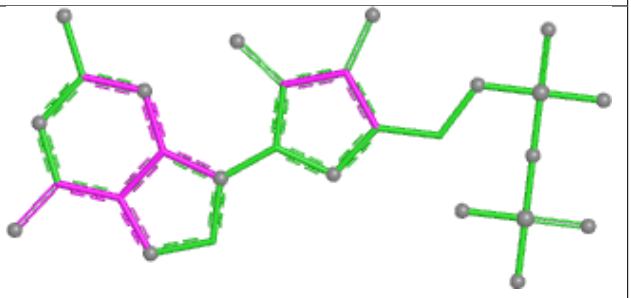

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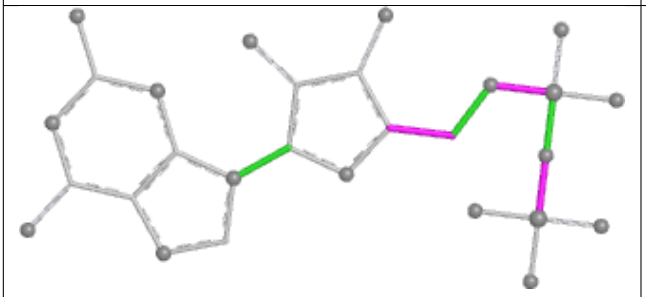

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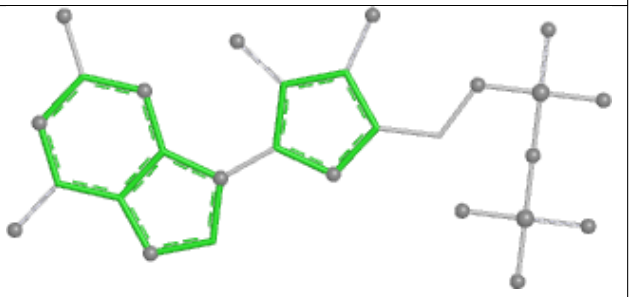

Rings

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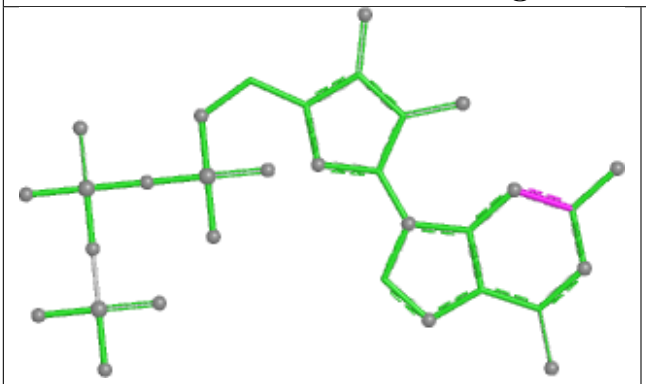

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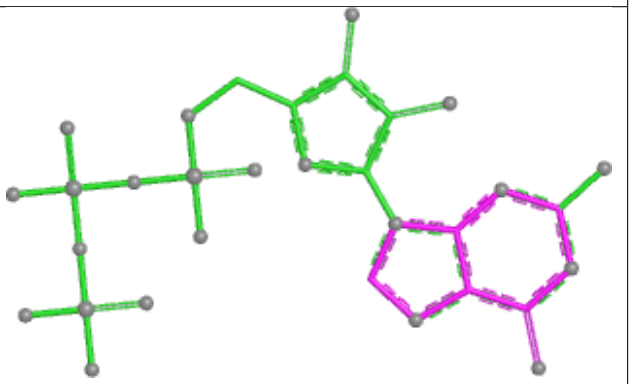

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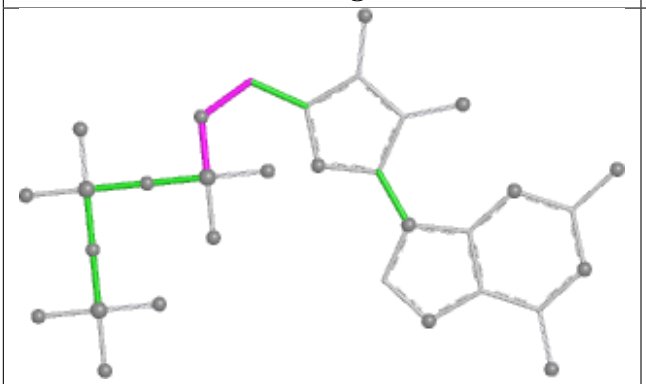

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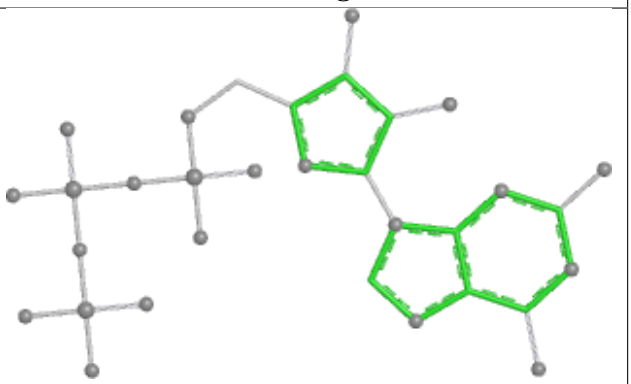

Rings

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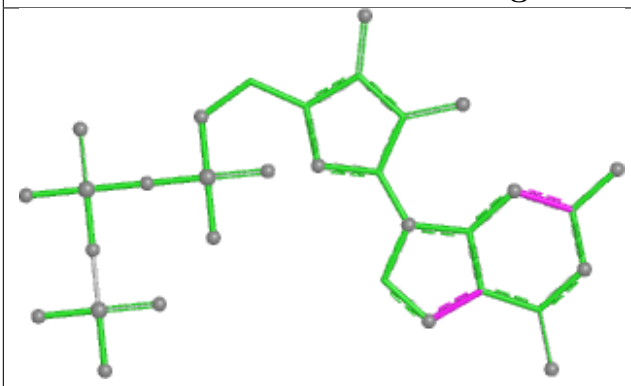

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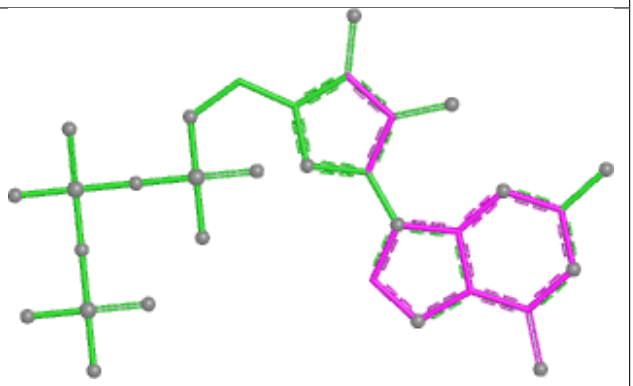

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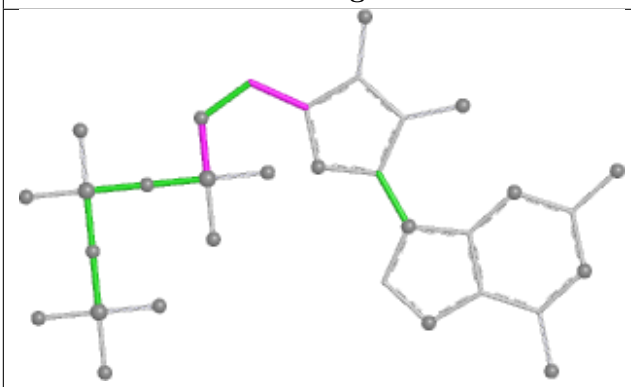

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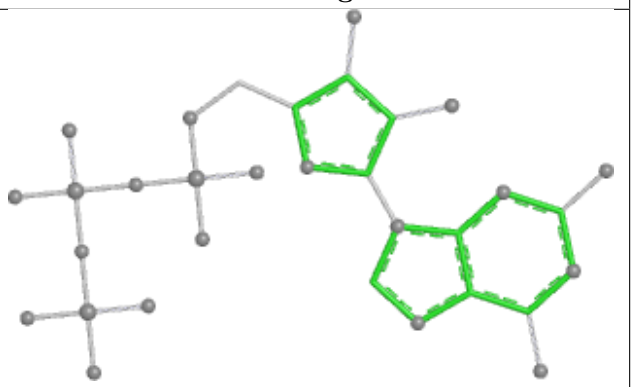
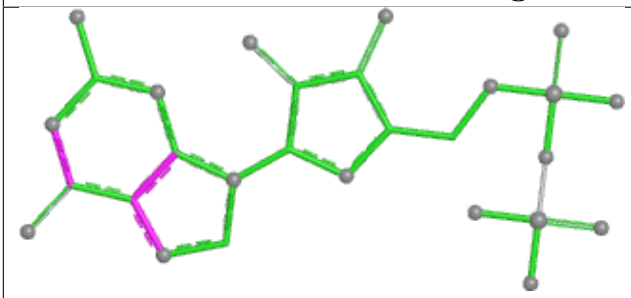


Rings

Ligand GDP LN 501



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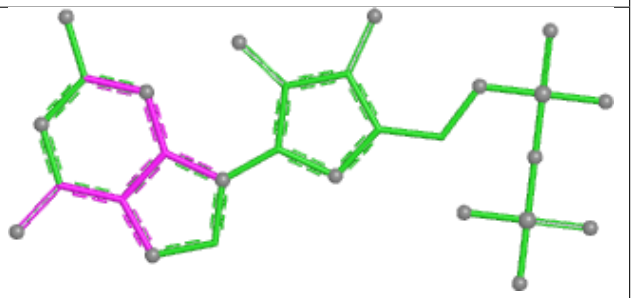

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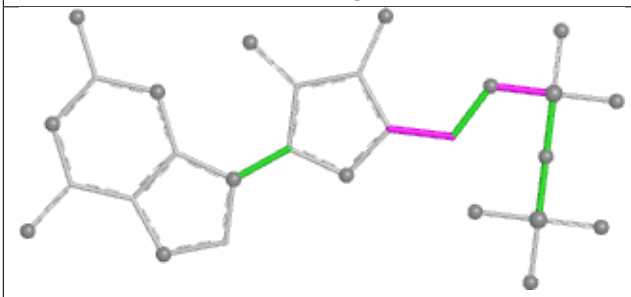

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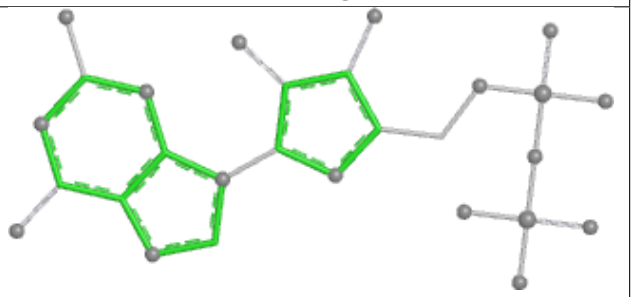
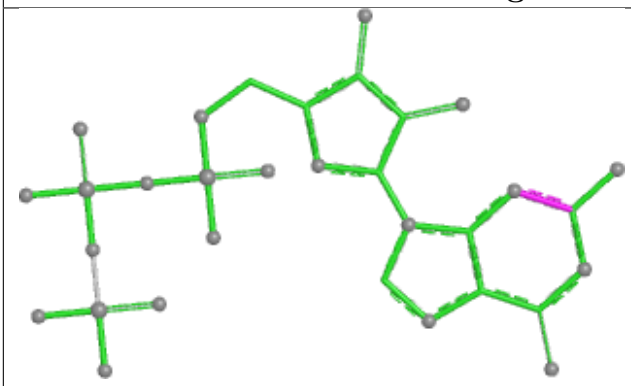


Rings

Ligand GTP EM 501



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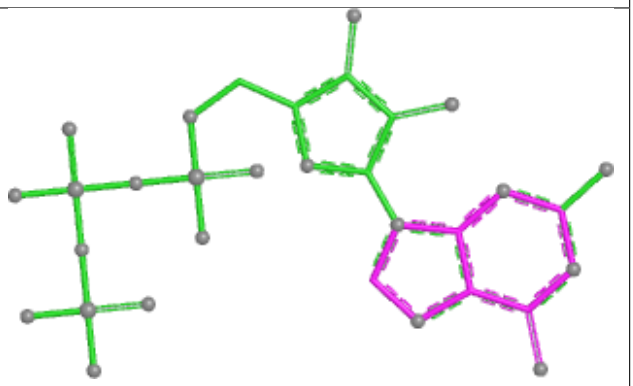

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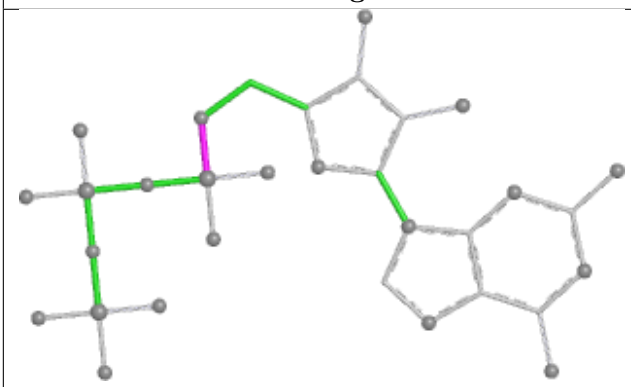

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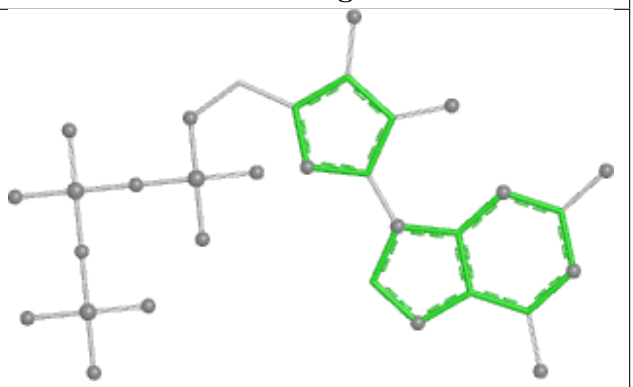
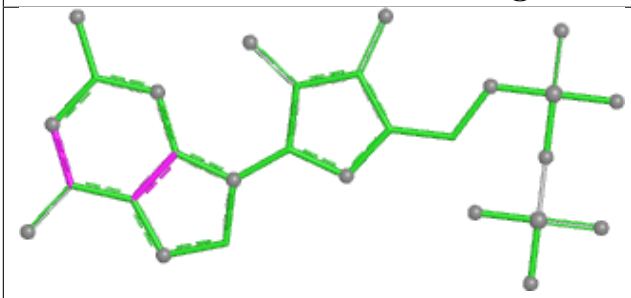


Rings

Ligand GDP JD 501



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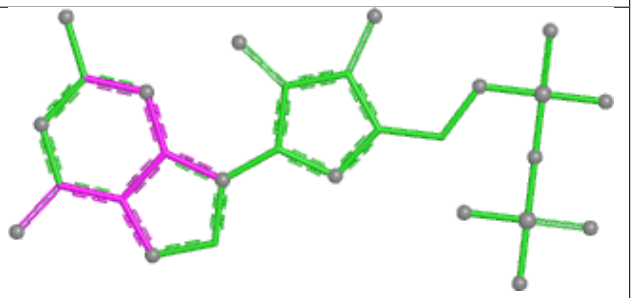

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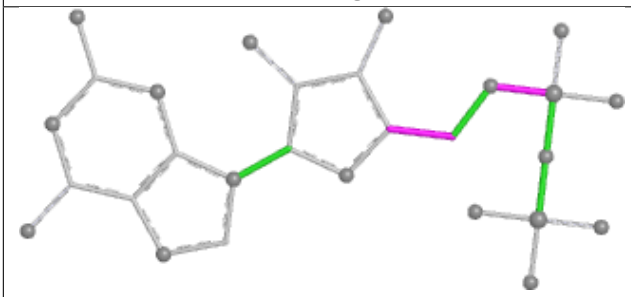

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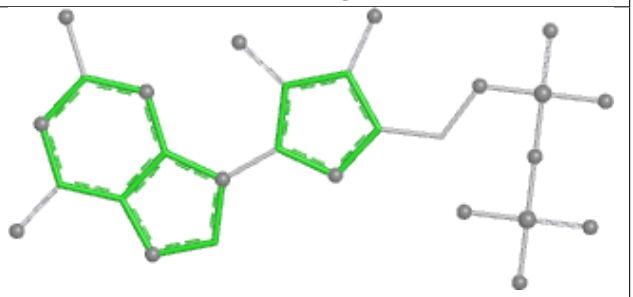
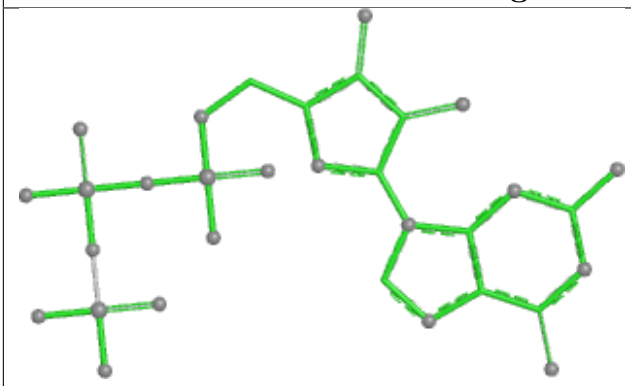


Rings

Ligand GTP VE 501



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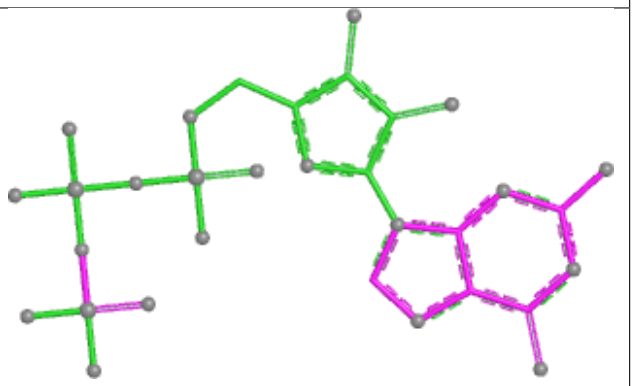

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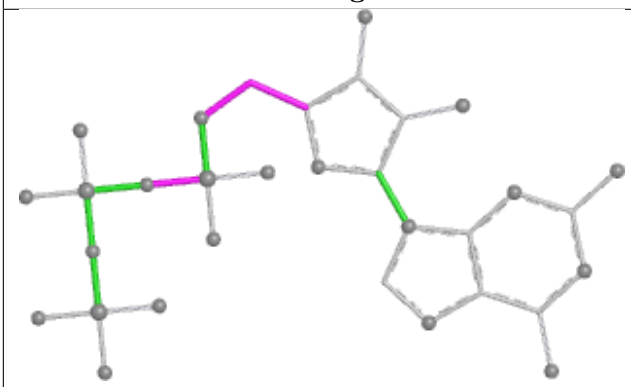
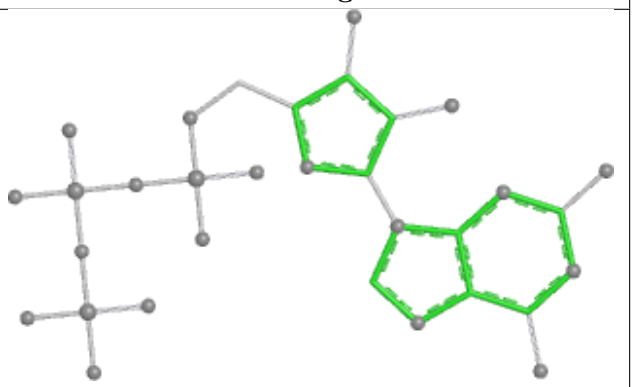
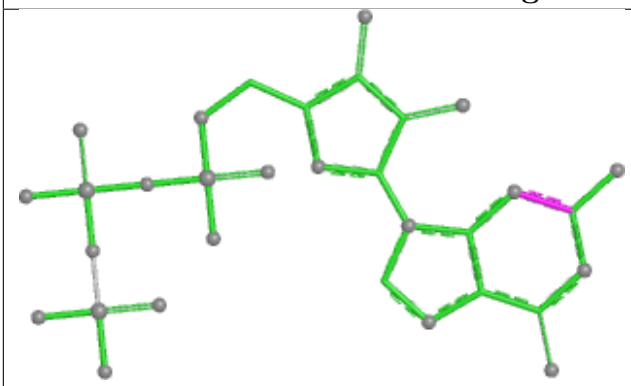


Torsions



Rings

Ligand GTP II 501



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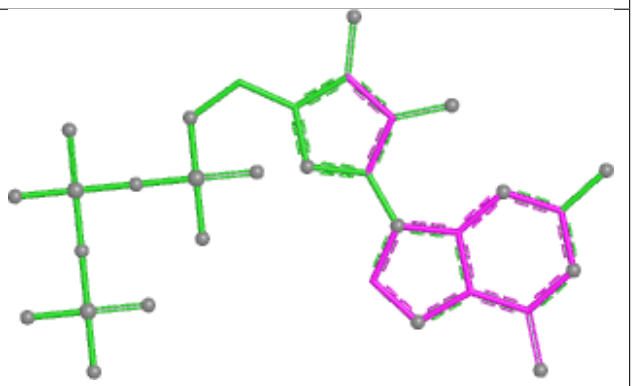

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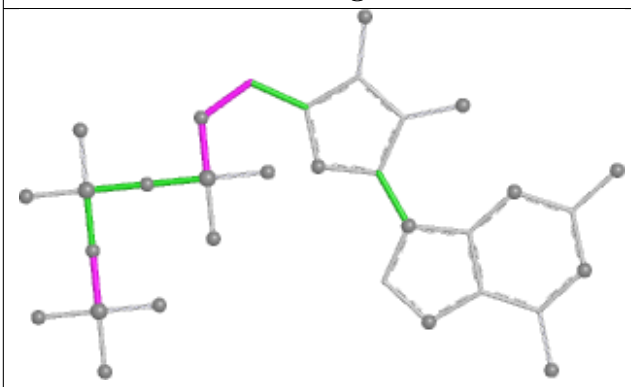

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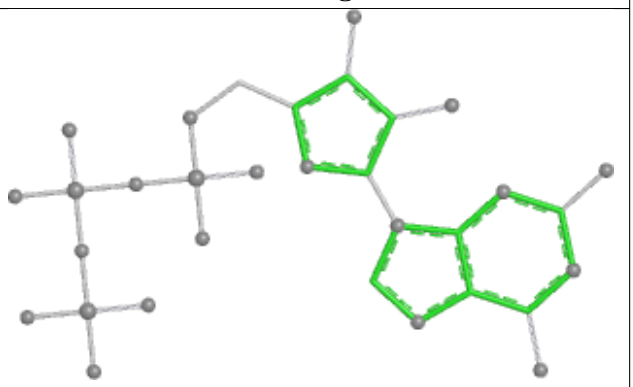
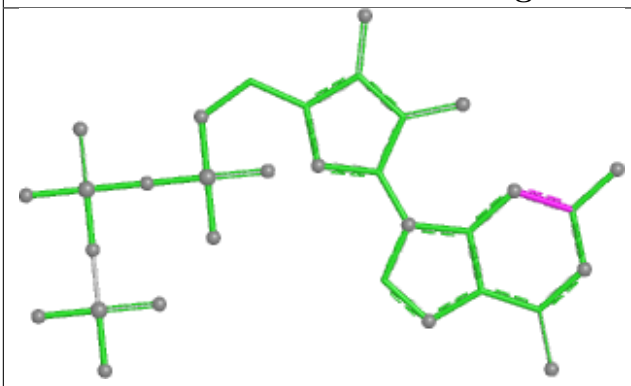


Rings

Ligand GTP IK 501



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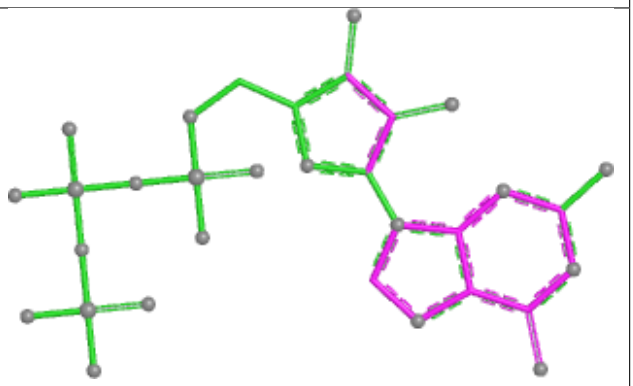

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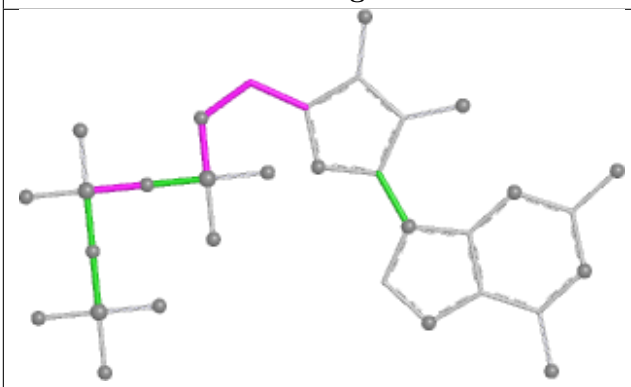

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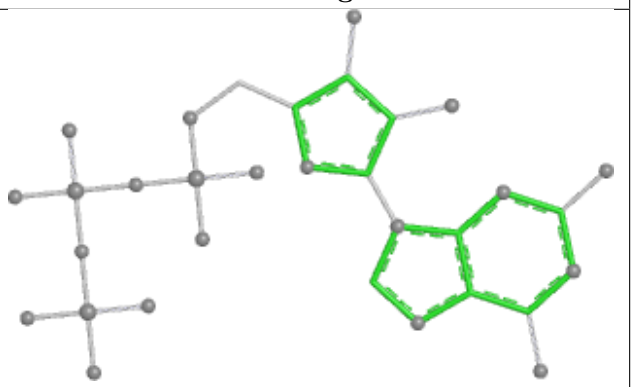
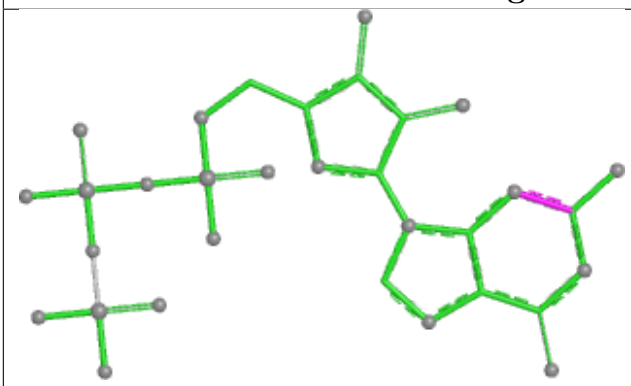


Rings

Ligand GTP HN 502



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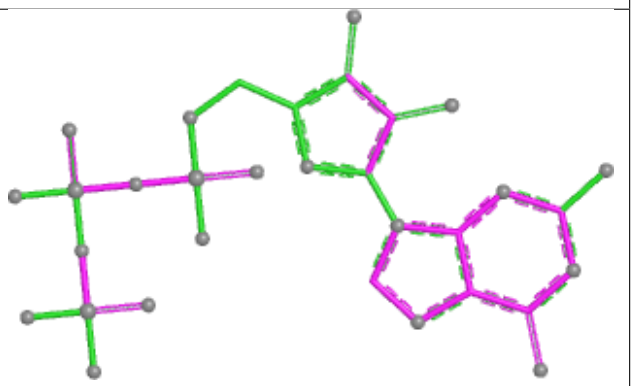

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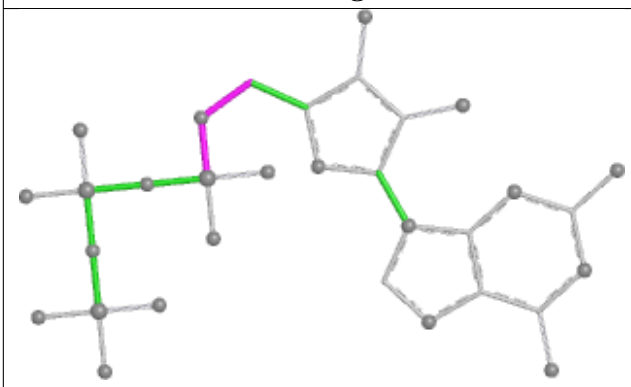

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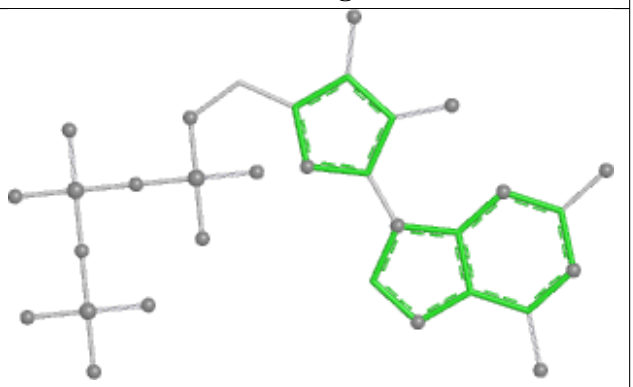
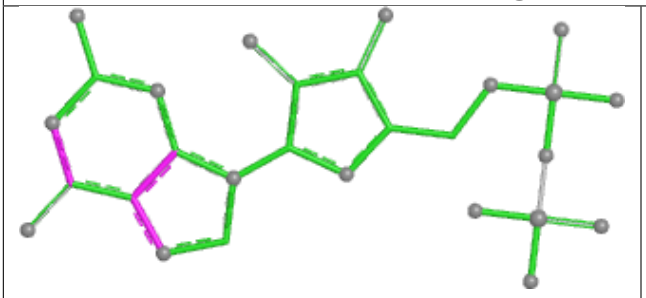


Rings

Ligand GDP CL 501



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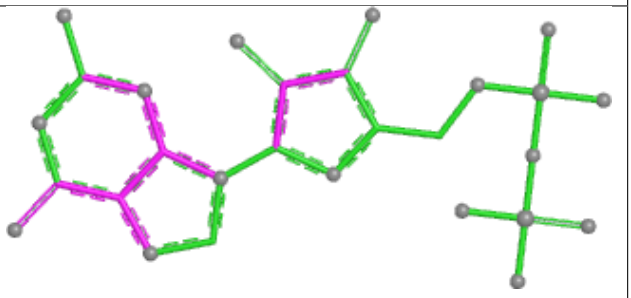

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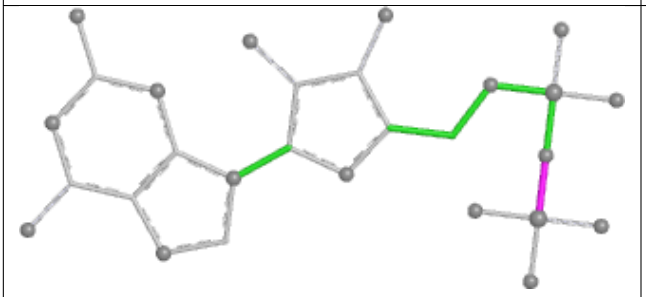

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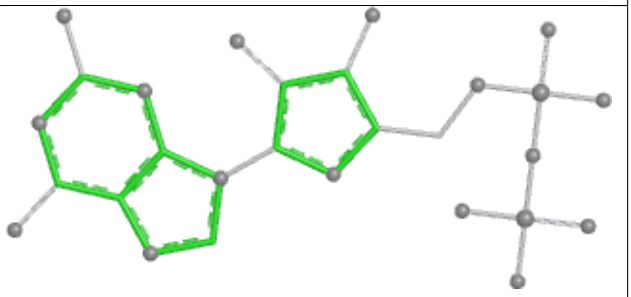
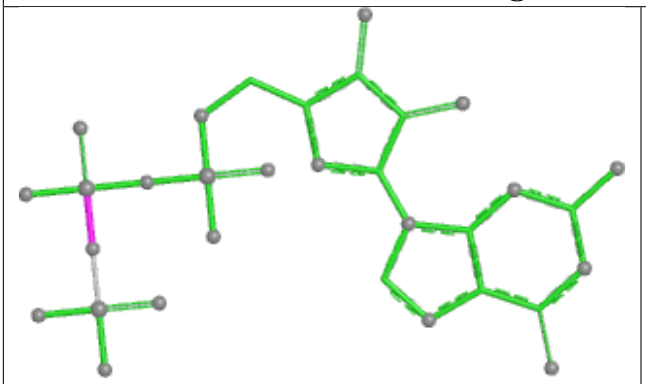


Rings

Ligand GTP RK 501



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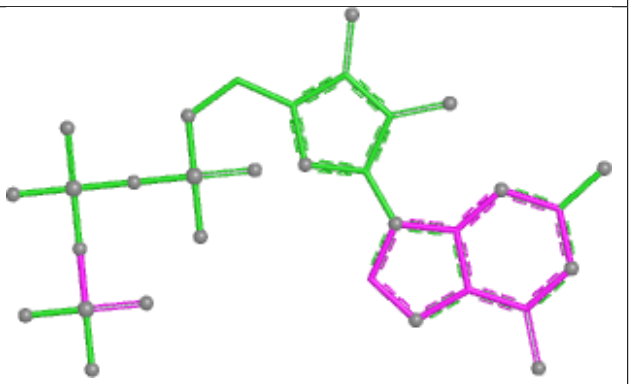

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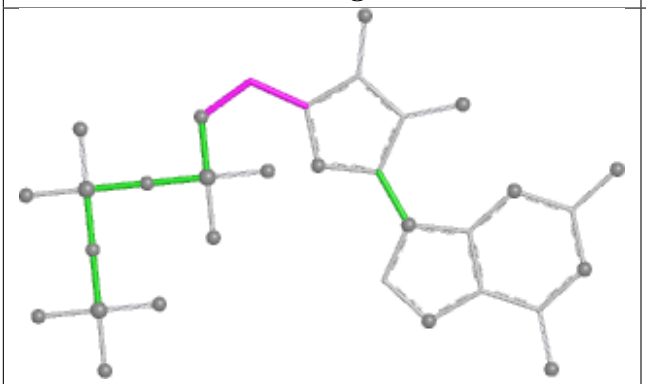

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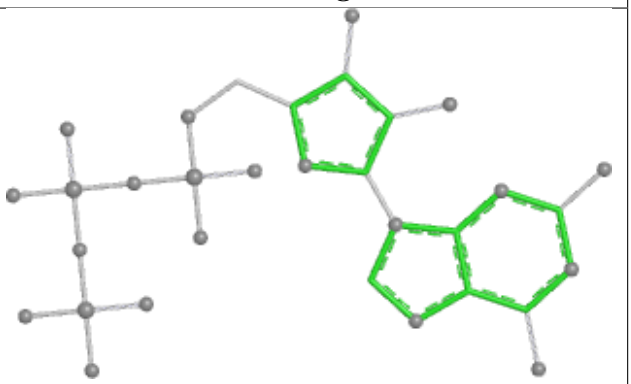
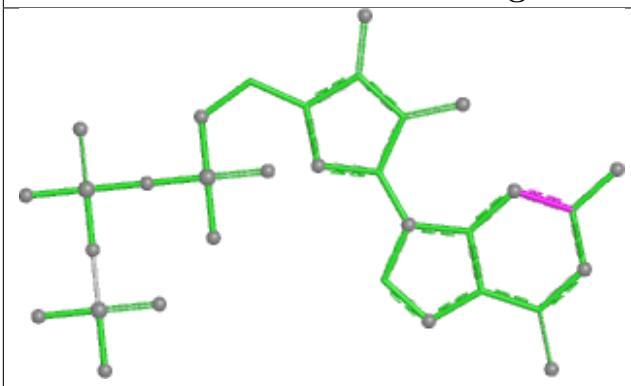


Rings

Ligand GTP OH 502



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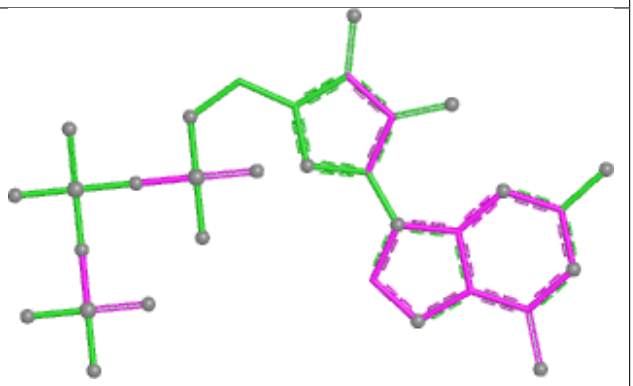

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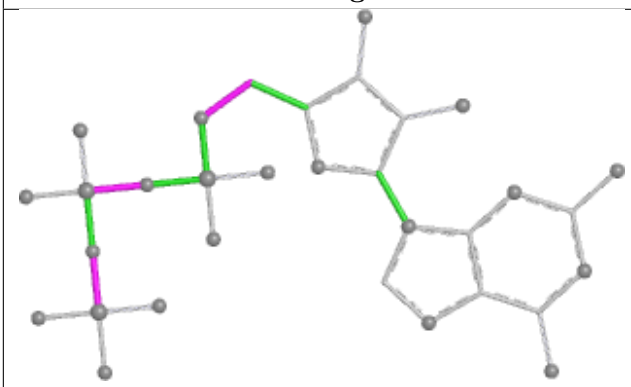

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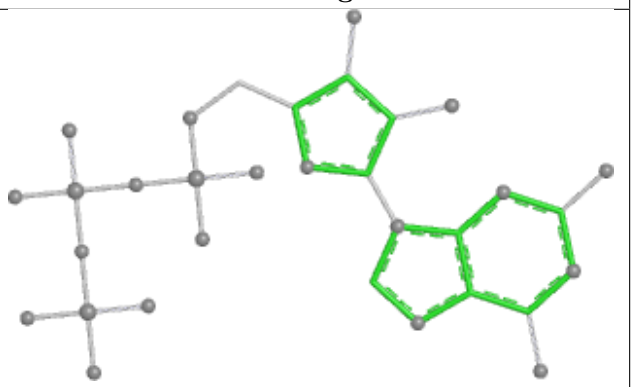
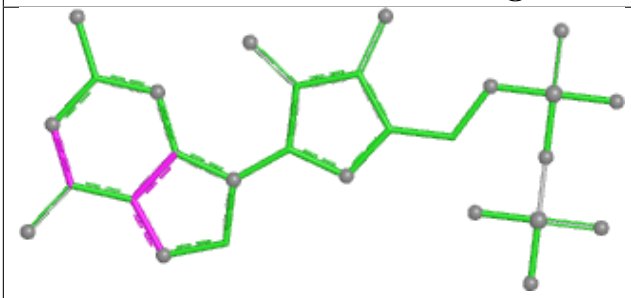


Rings

Ligand GDP AH 501



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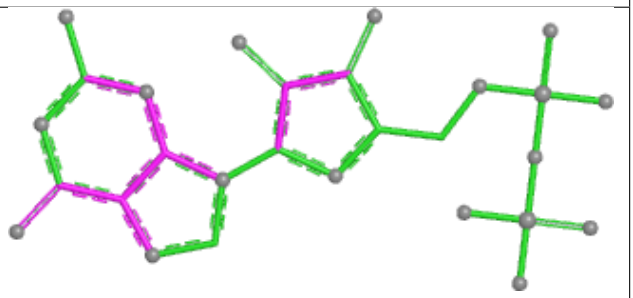

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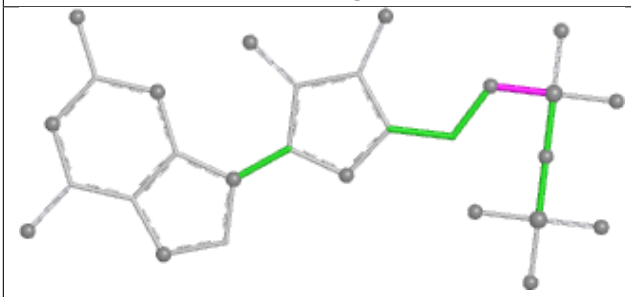

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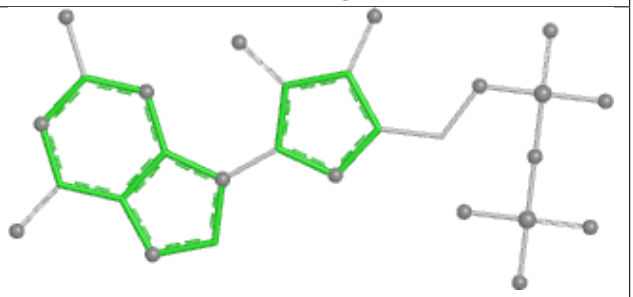
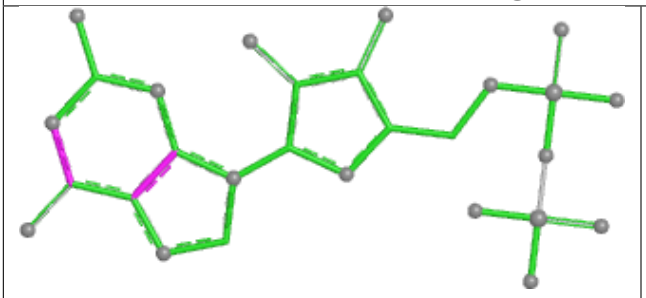


Rings

Ligand GDP CB 501



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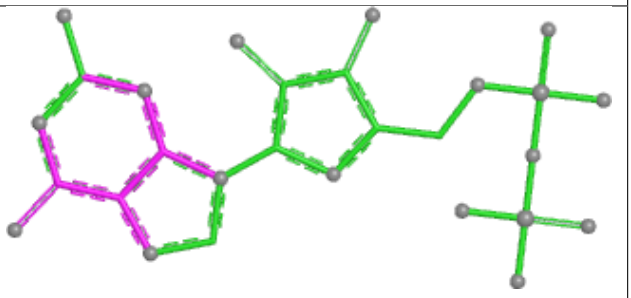

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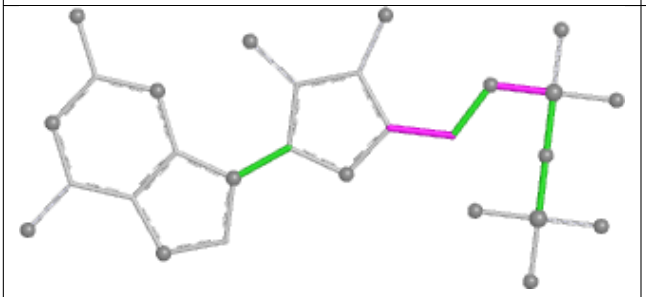

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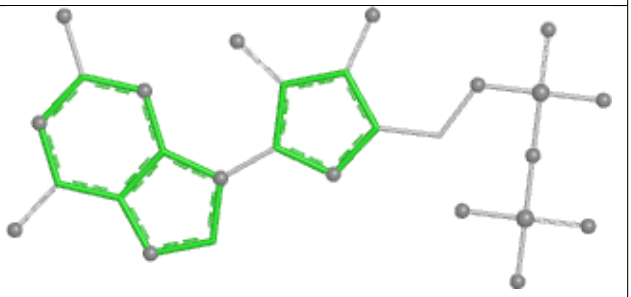
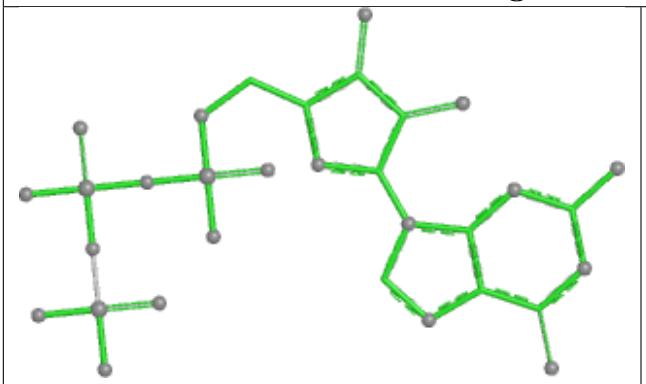


Rings

Ligand GTP AH 502



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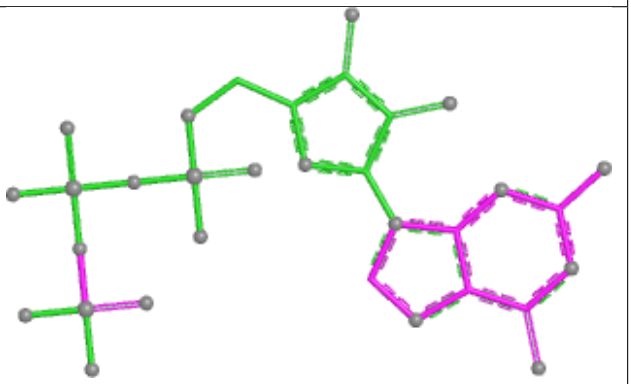

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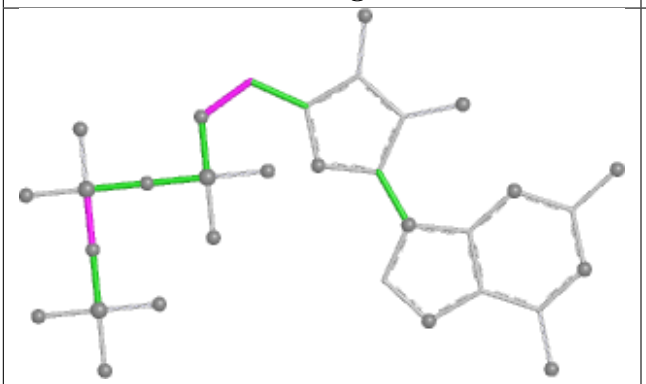

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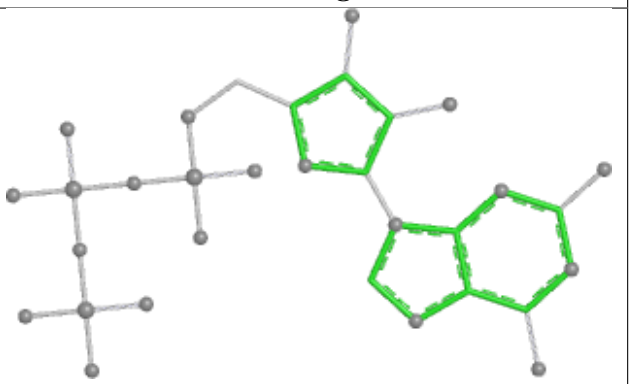
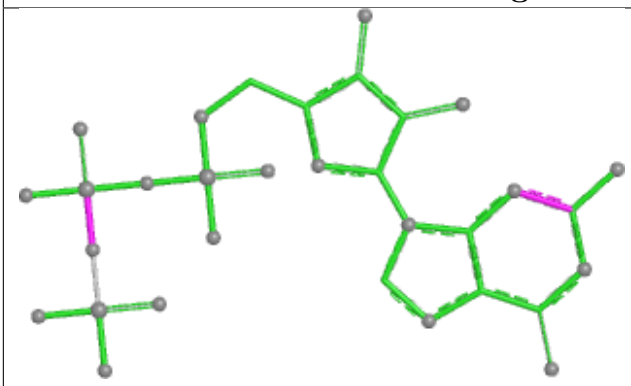


Rings

Ligand GTP OF 502



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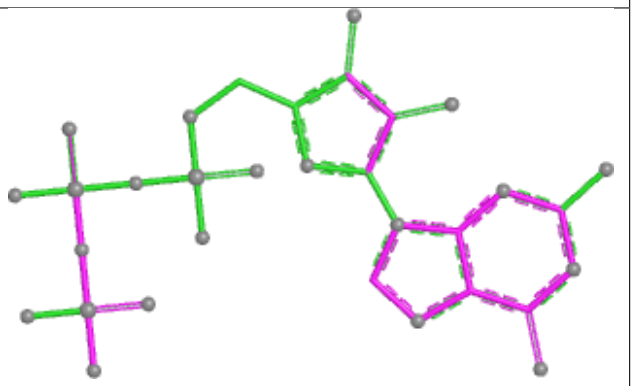

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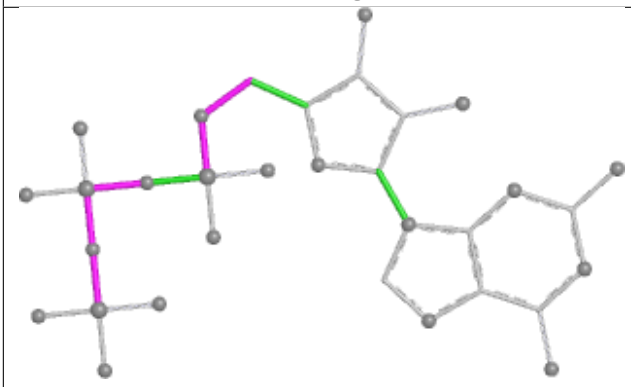

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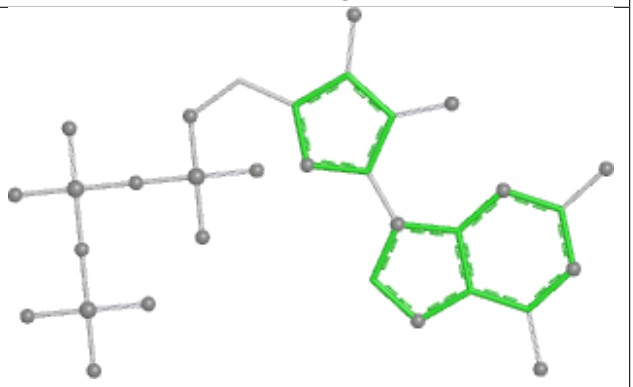
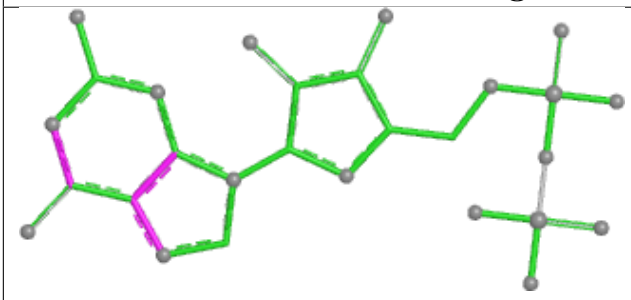


Rings

Ligand GDP QB 501



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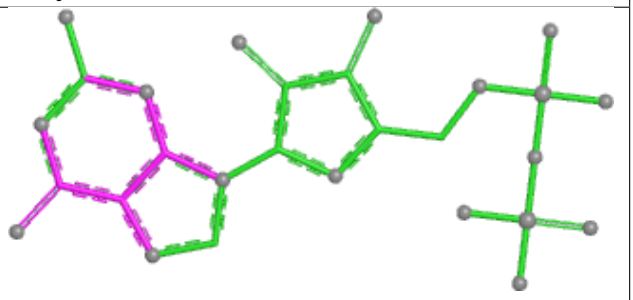
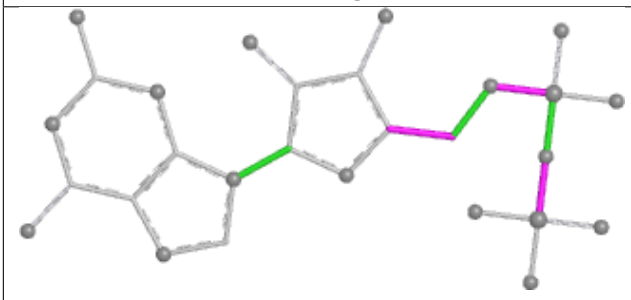


Bond angles



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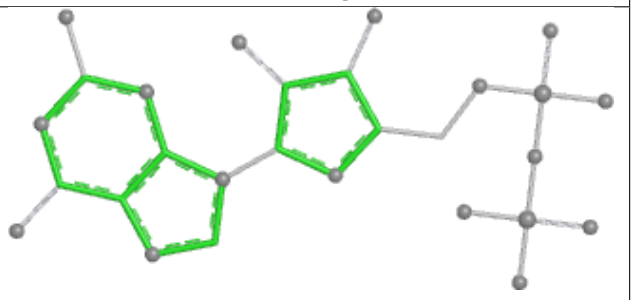
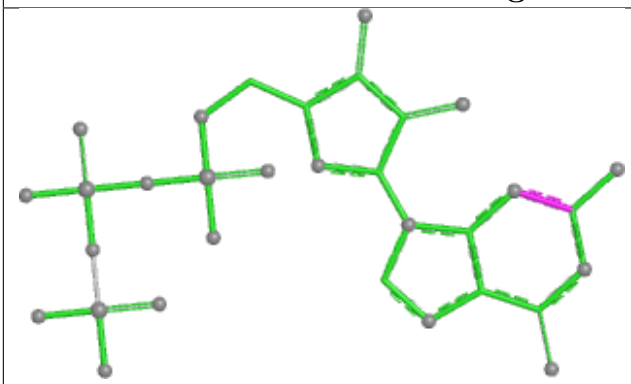


Rings

Ligand GTP HG 502



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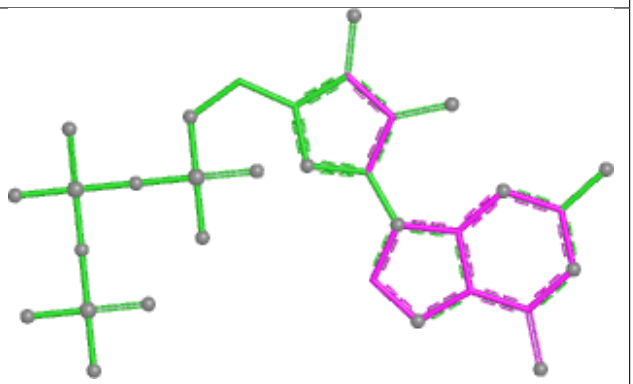

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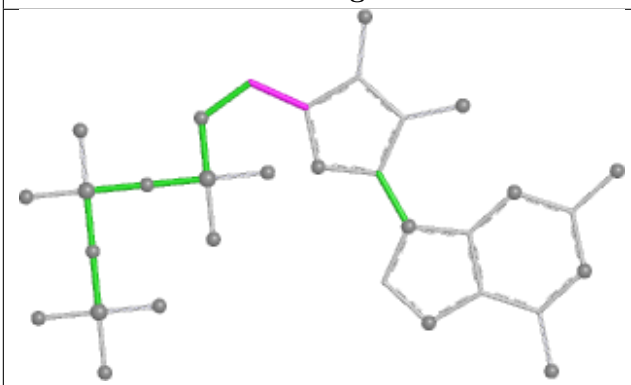

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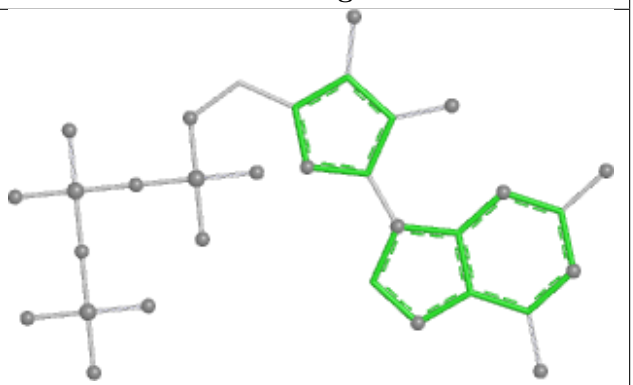
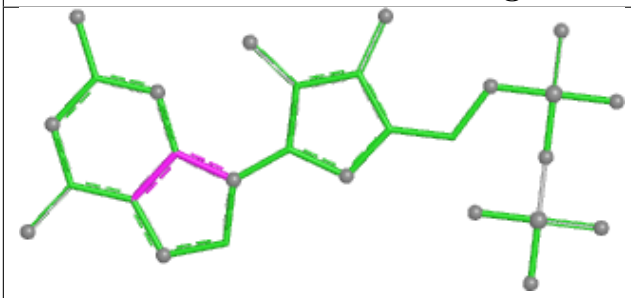


Rings

Ligand GDP MH 501



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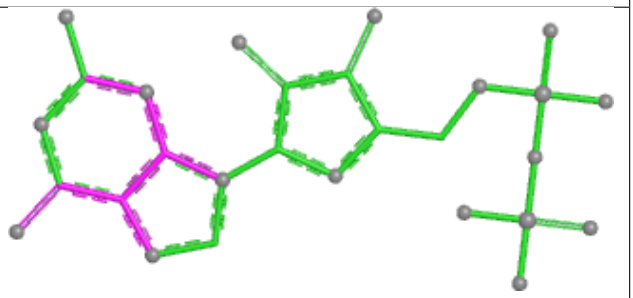

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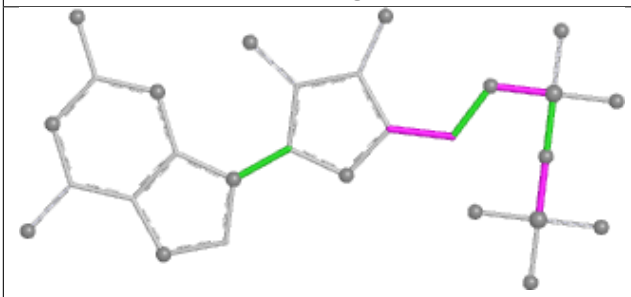

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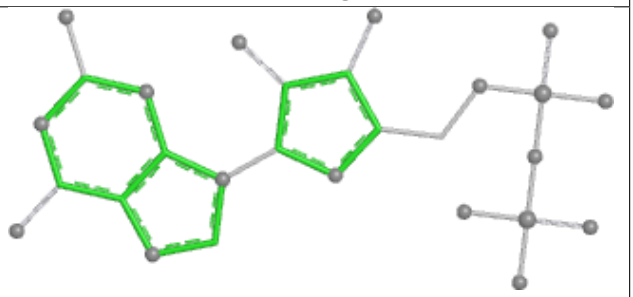
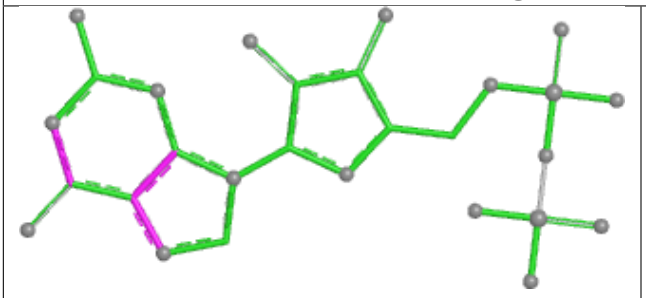


Rings

Ligand GDP GL 501



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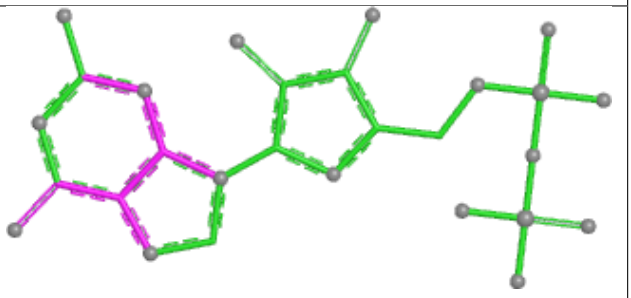

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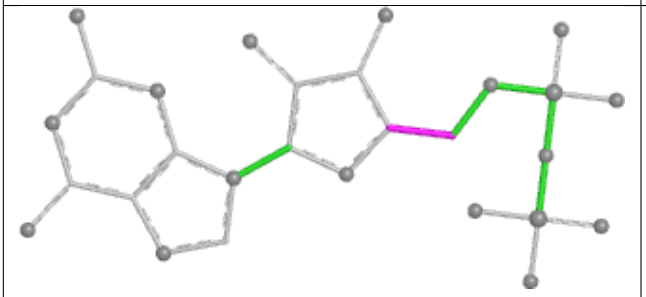
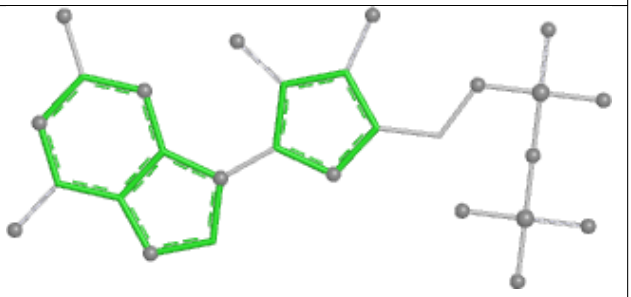
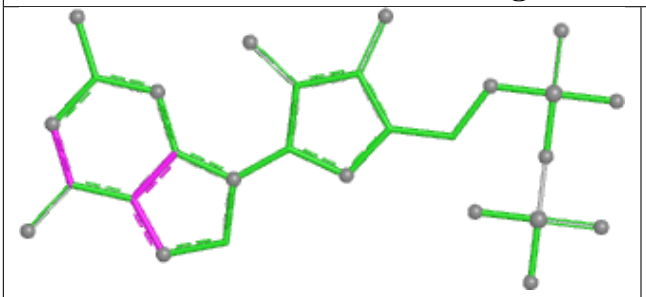


Torsions



Rings

Ligand GDP RL 501



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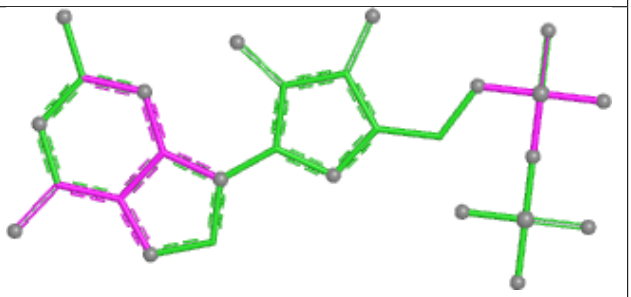

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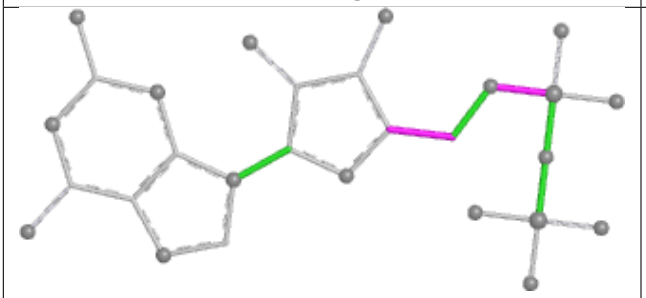

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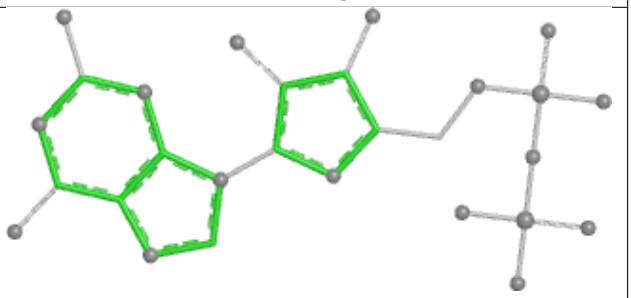
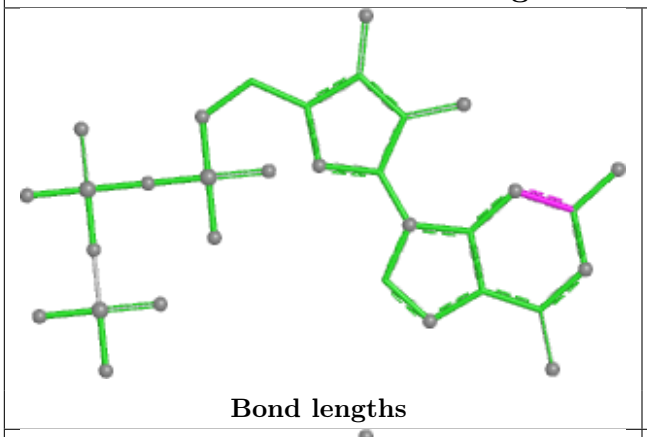


Rings

Ligand GTP FK 501



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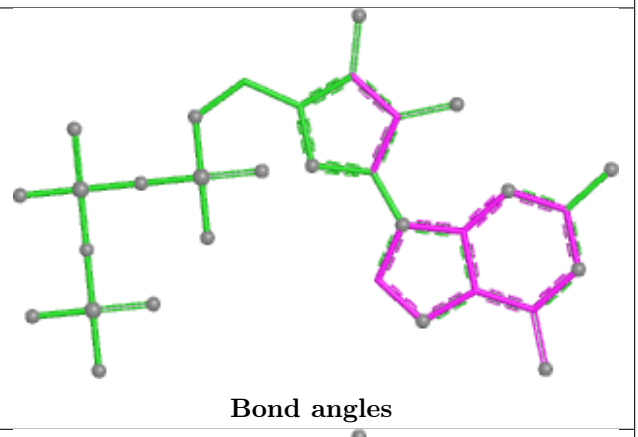

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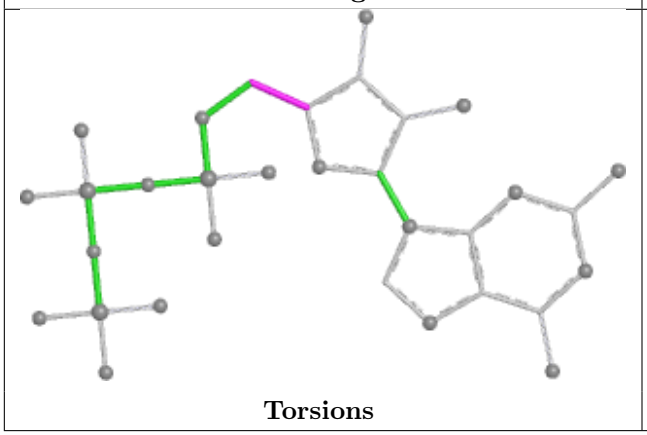

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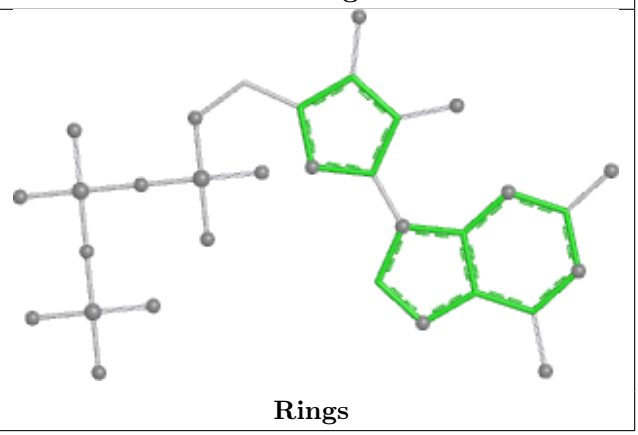
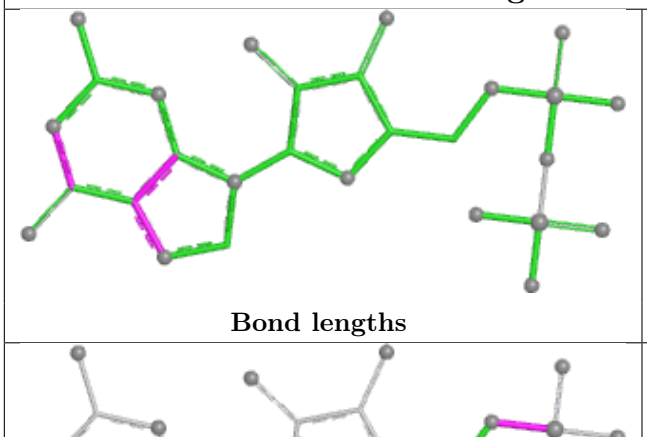


Rings

Ligand GDP GN 501



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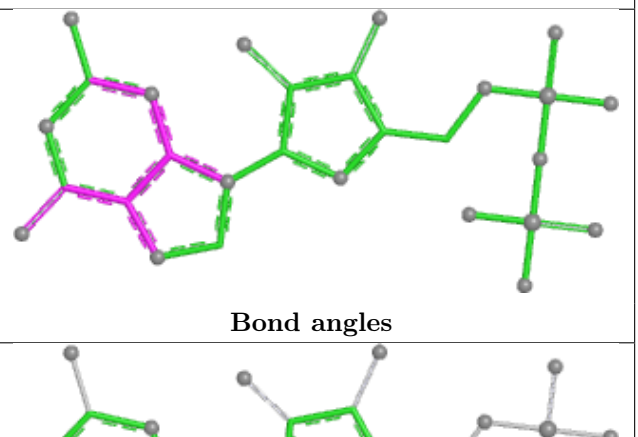

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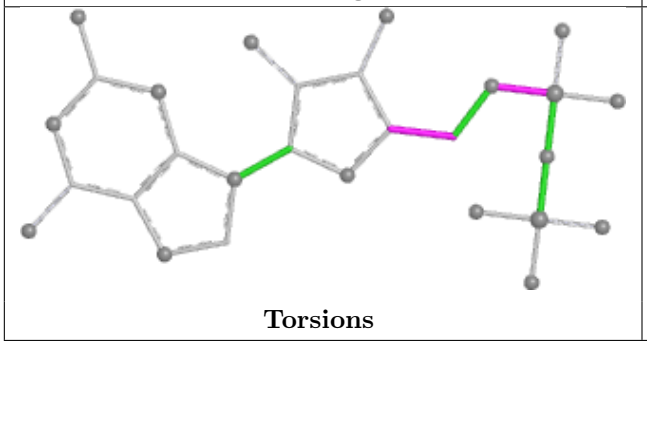

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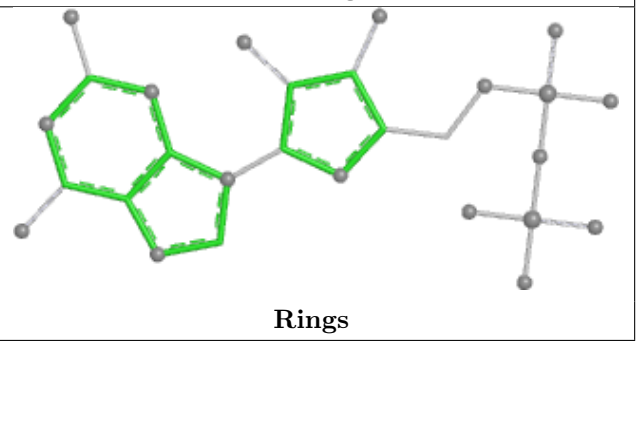

Rings

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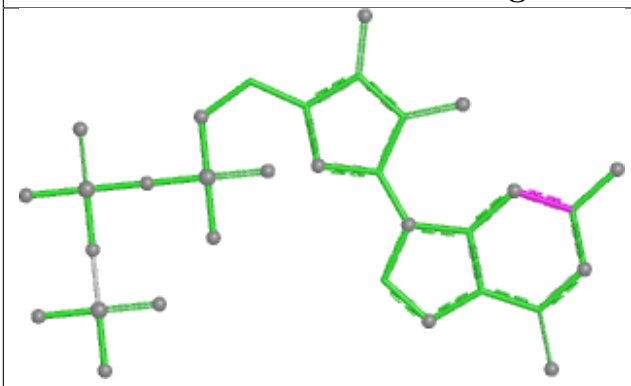

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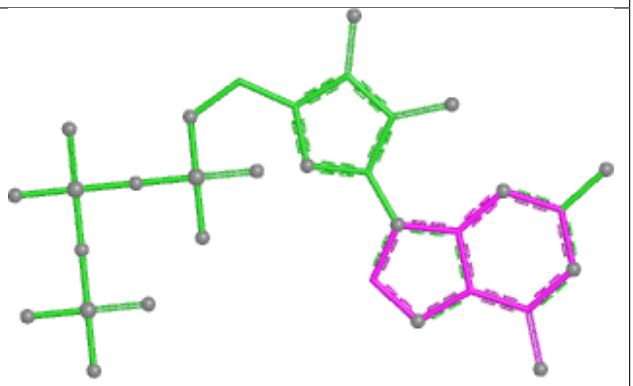

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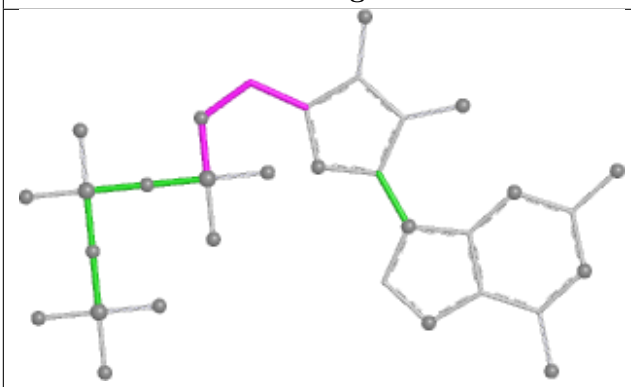

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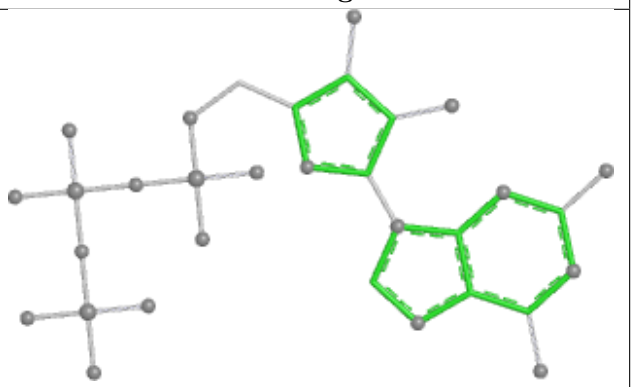

Rings

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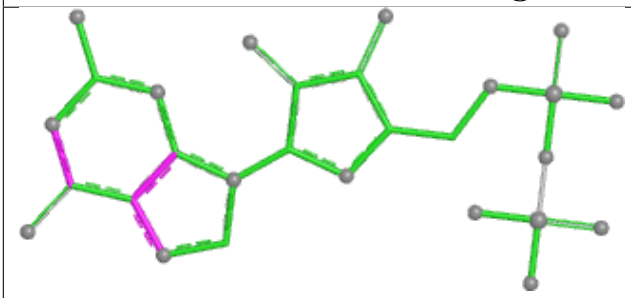

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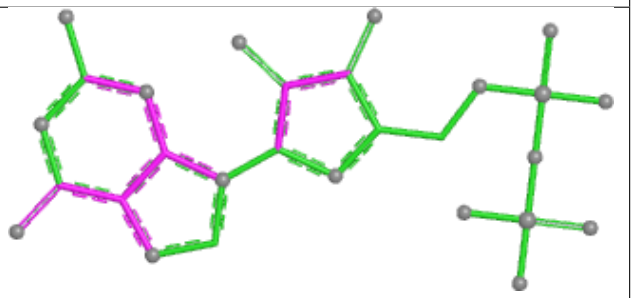

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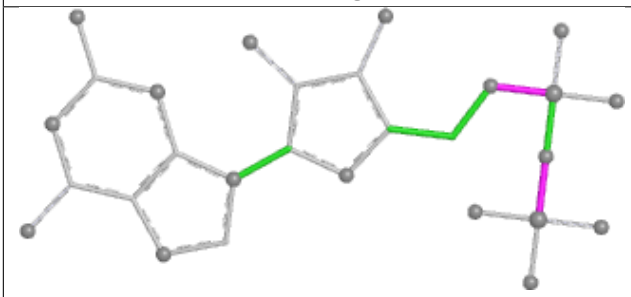

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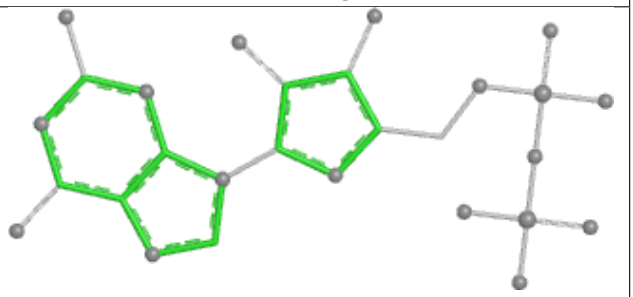
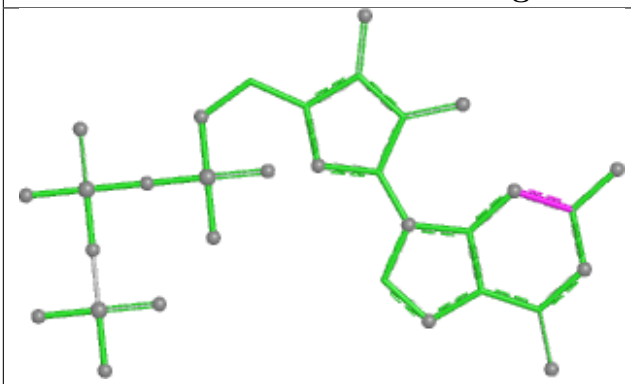


Rings

Ligand GTP GJ 502



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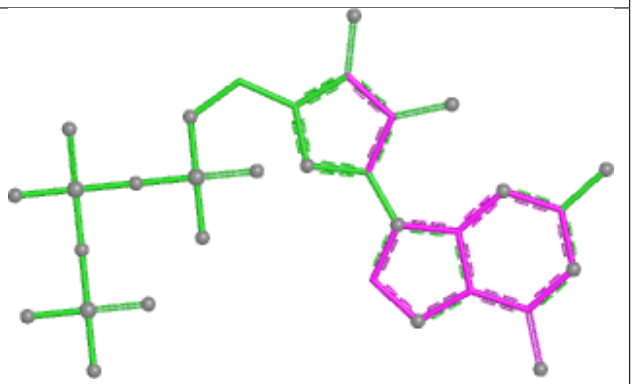

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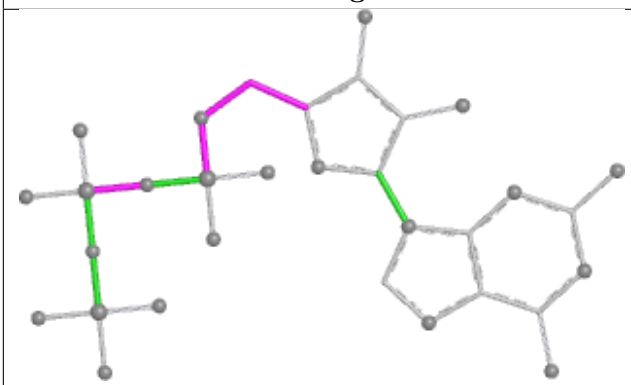

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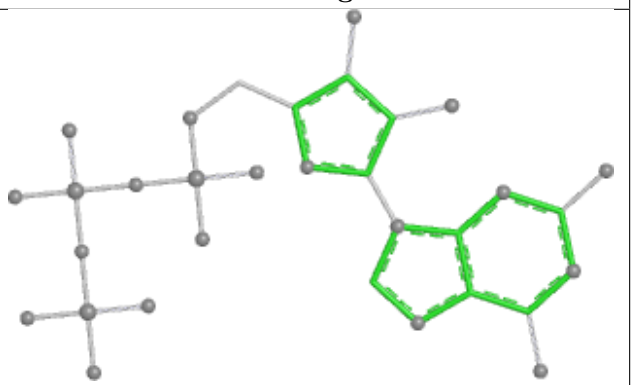
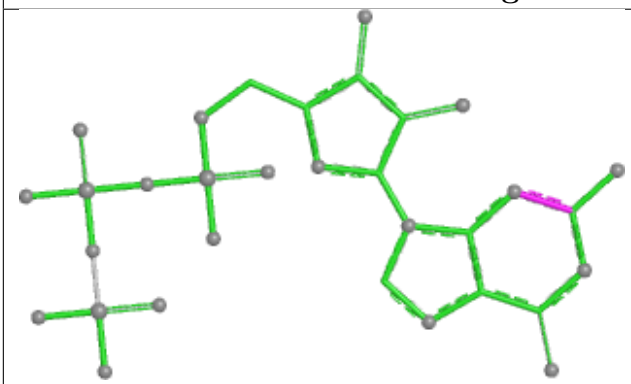


Rings

Ligand GTP MM 501



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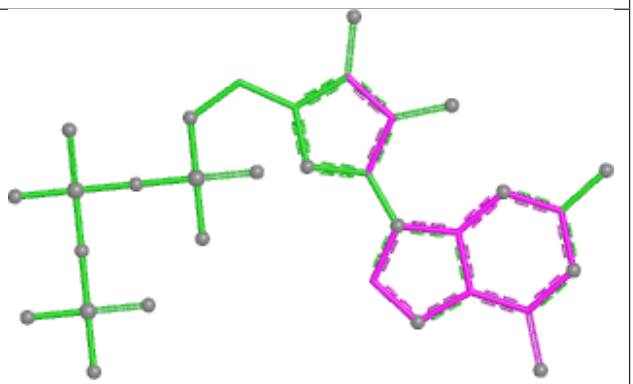

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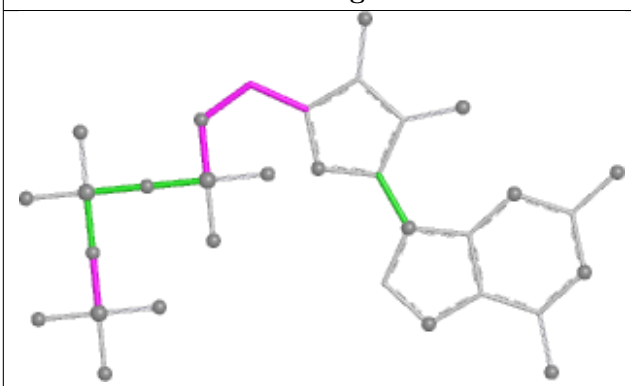

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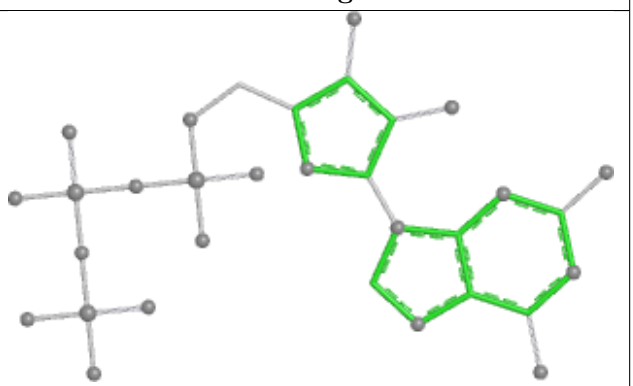

Rings

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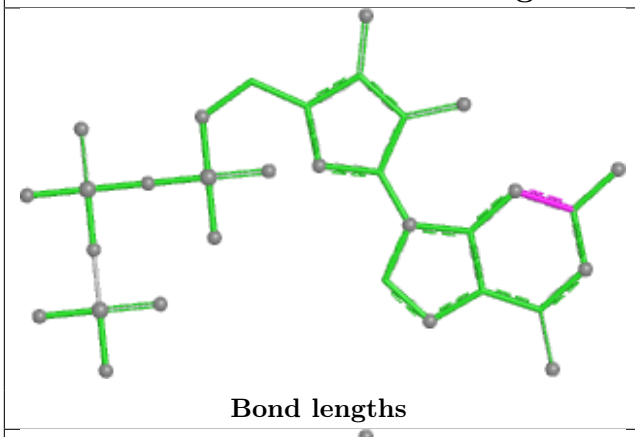

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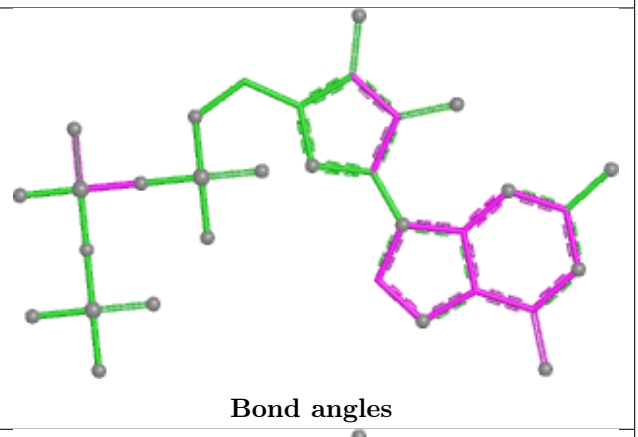

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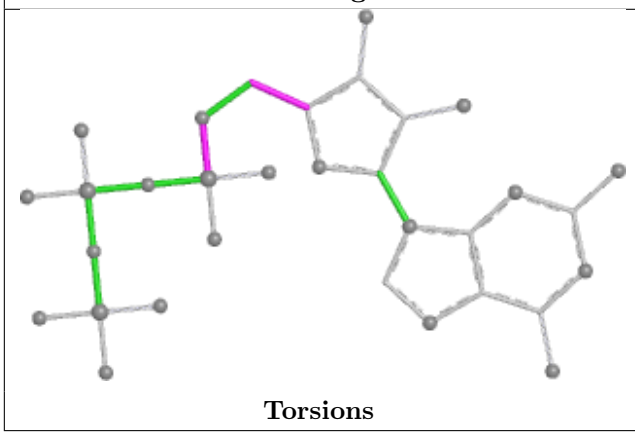

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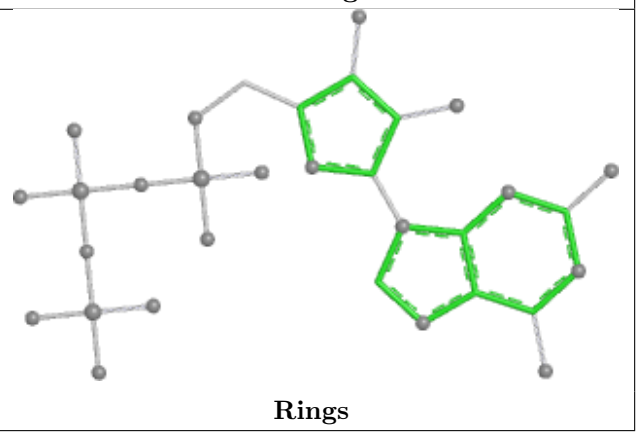

Rings

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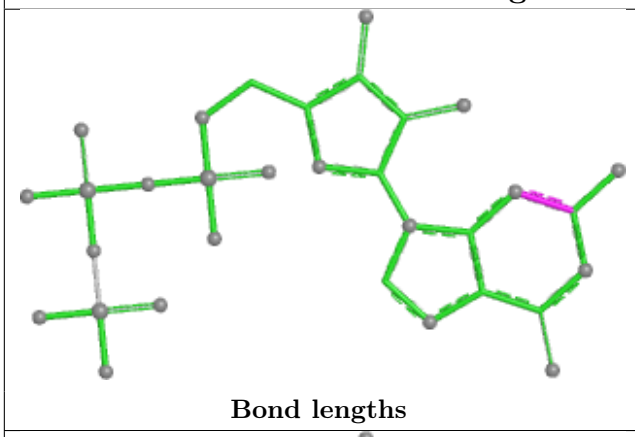

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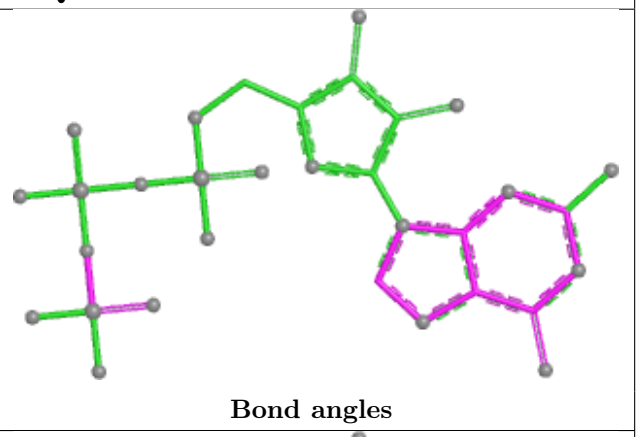

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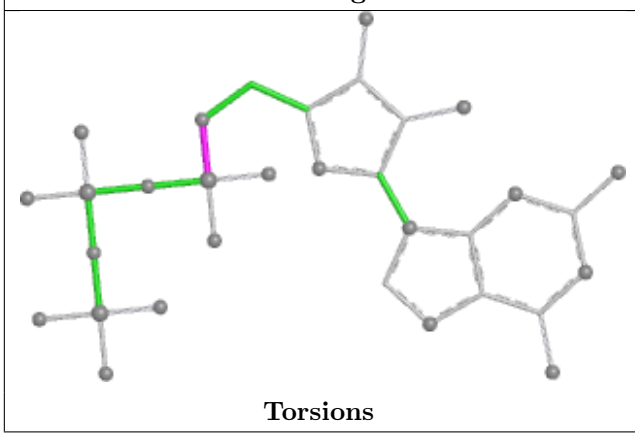

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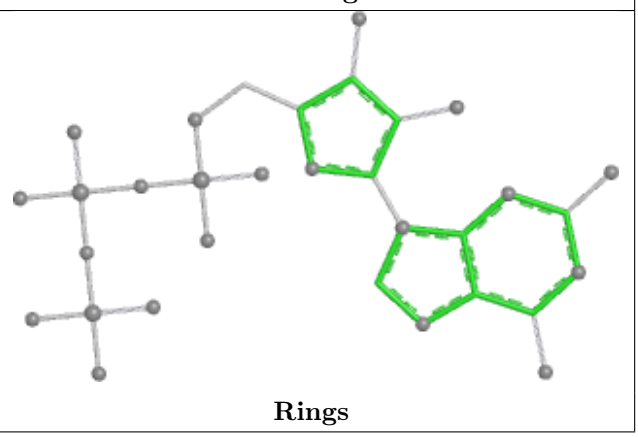

Rings

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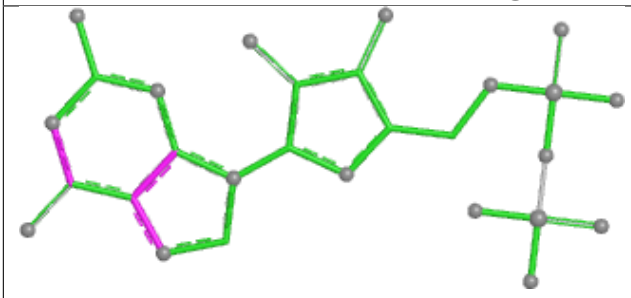

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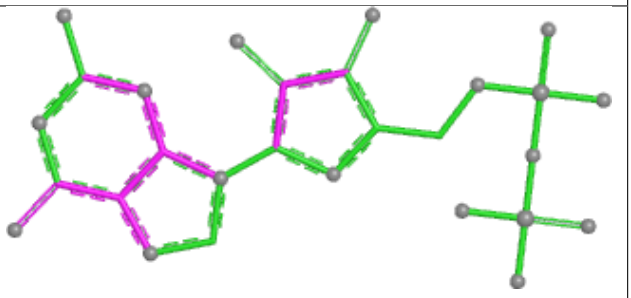

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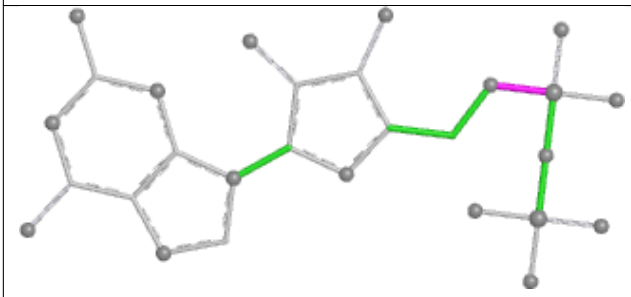

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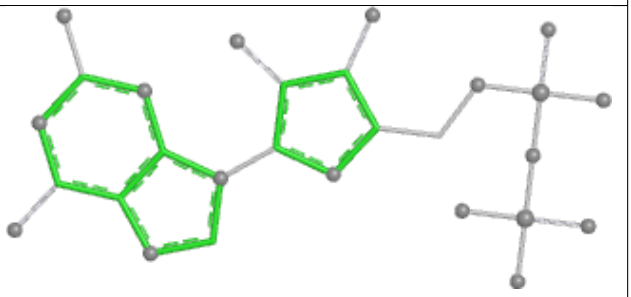
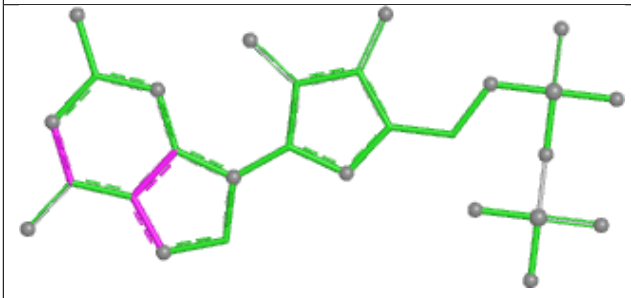


Rings

Ligand GDP KH 501



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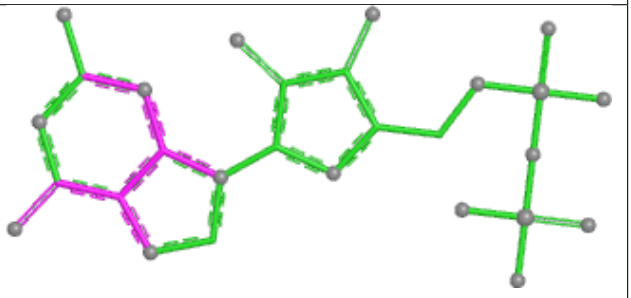

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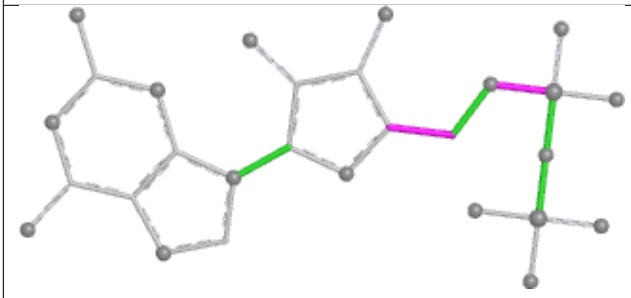

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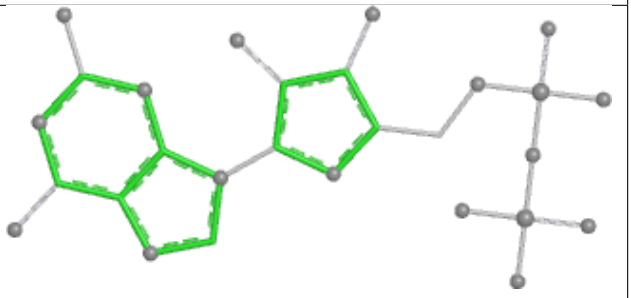
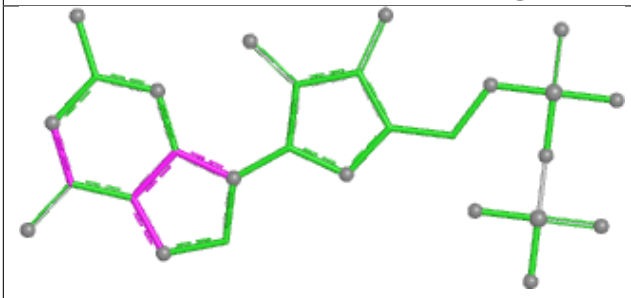


Rings

Ligand GDP N0 501



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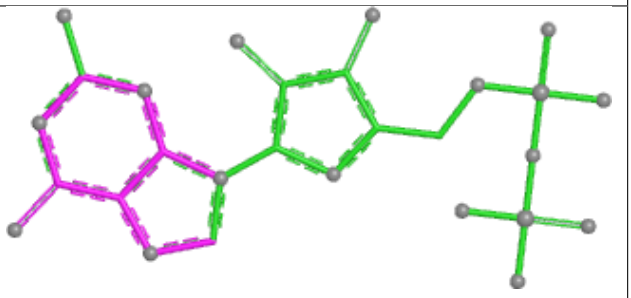

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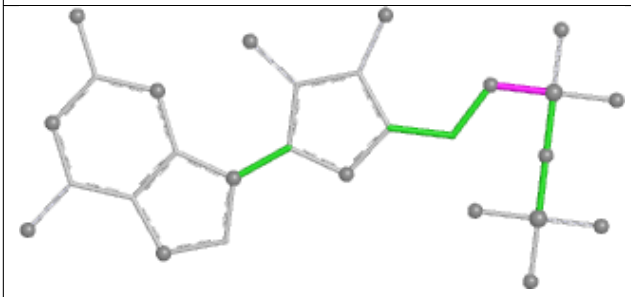

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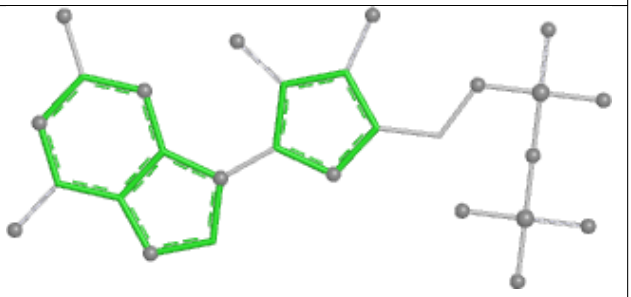
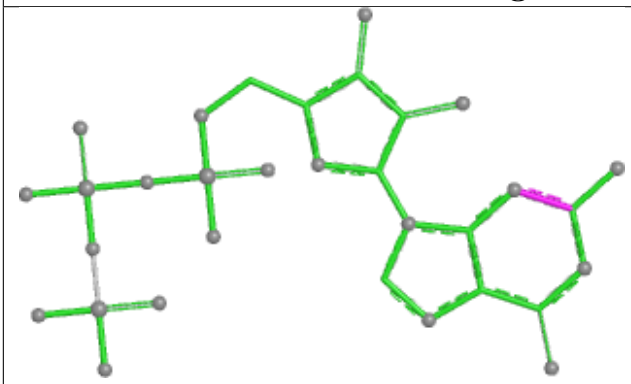


Rings

Ligand GTP JM 501



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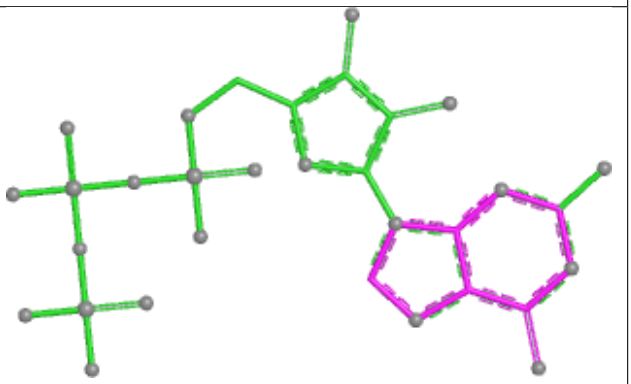
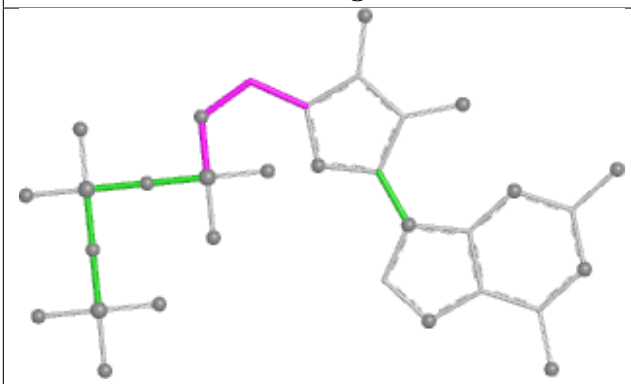


Bond angles



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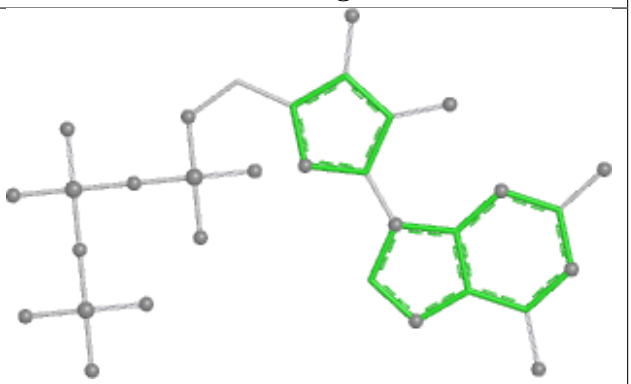
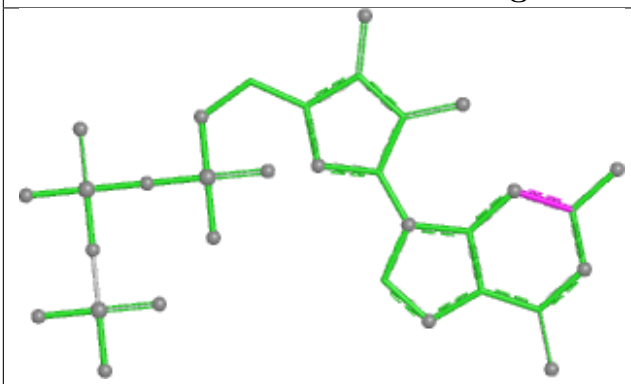


Rings

Ligand GTP UE 501



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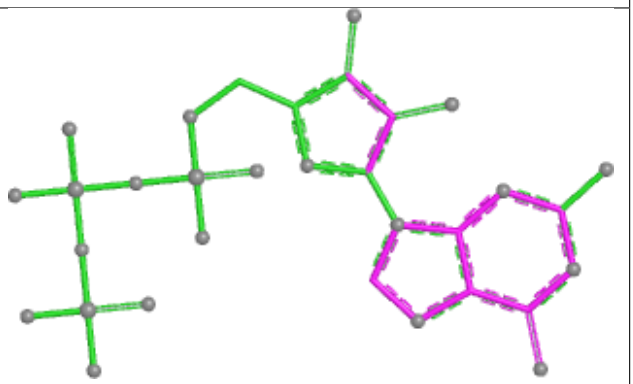

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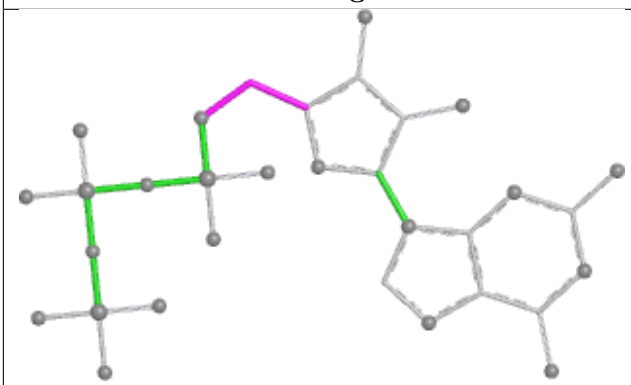

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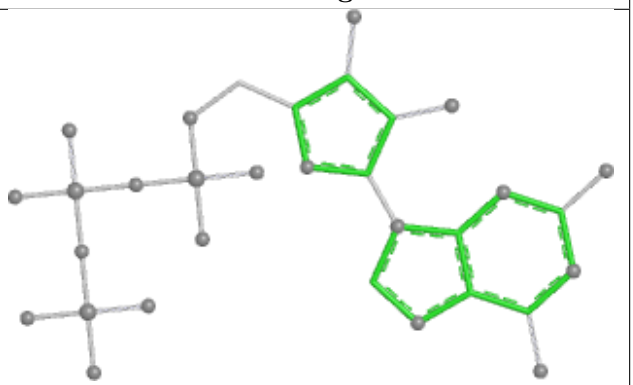

Rings

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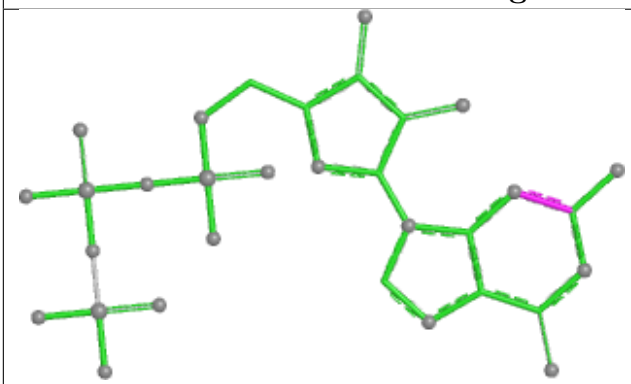

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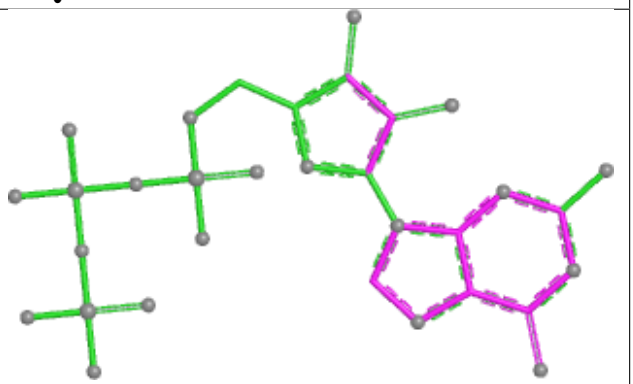

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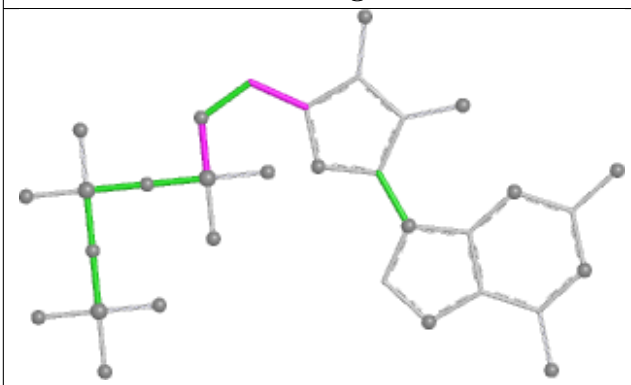

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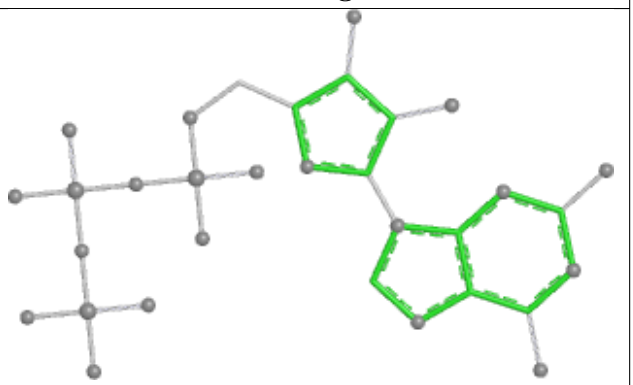

Rings

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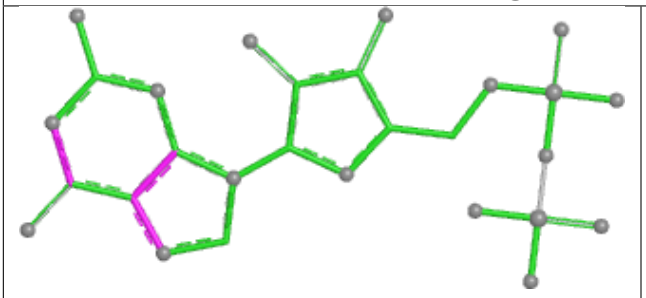

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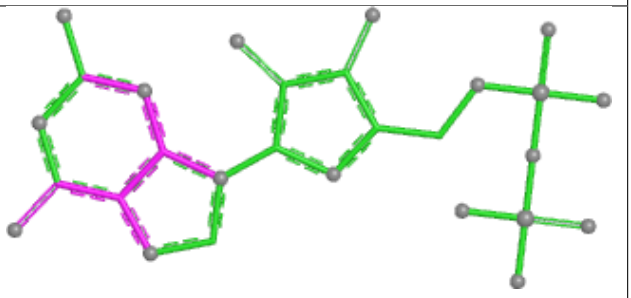

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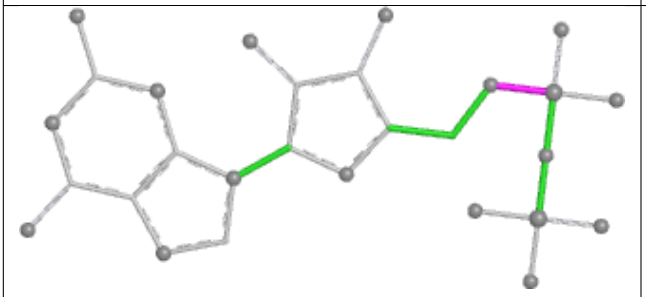

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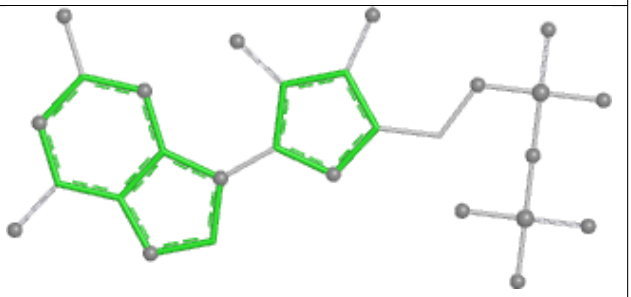

Rings

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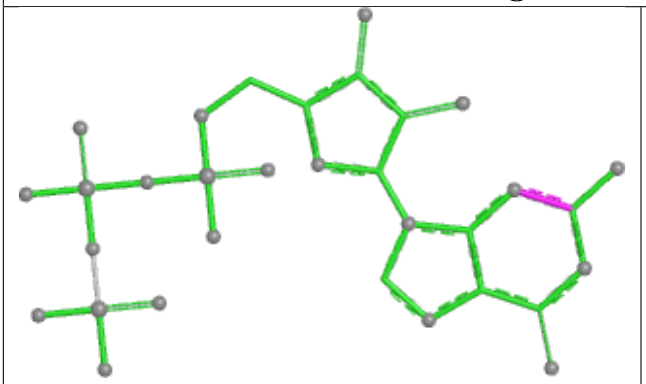

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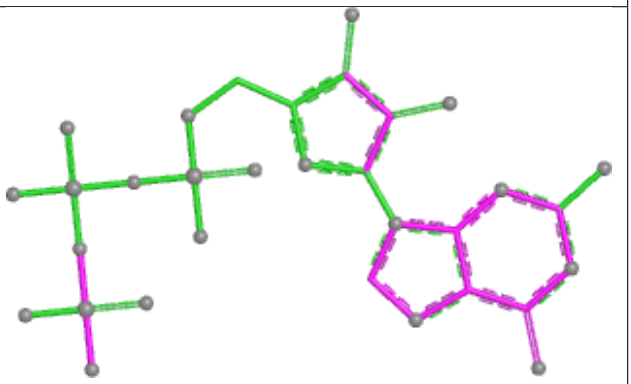

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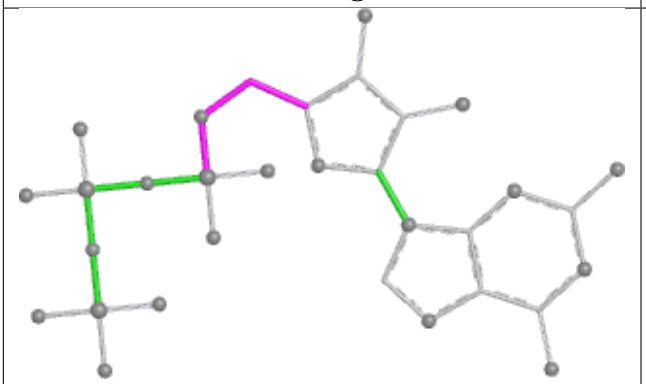

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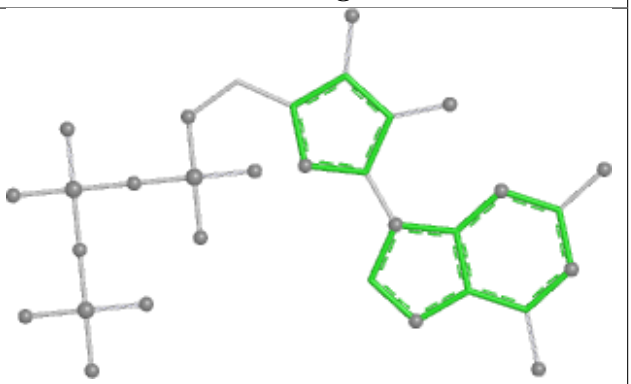
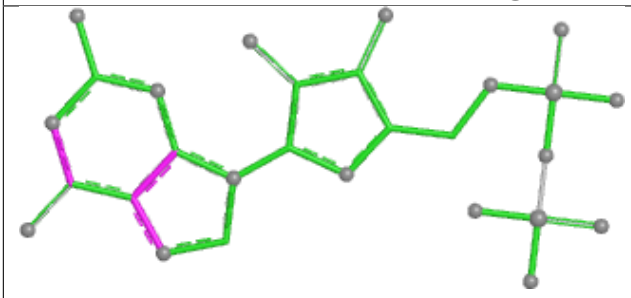


Rings

Ligand GDP ND 501



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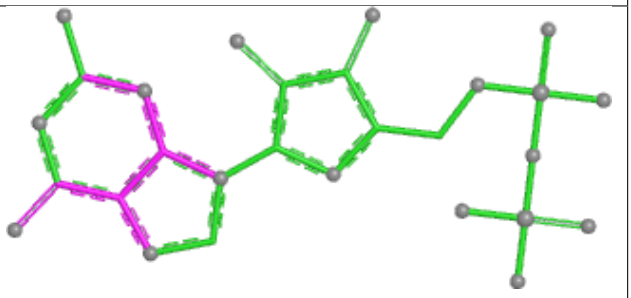

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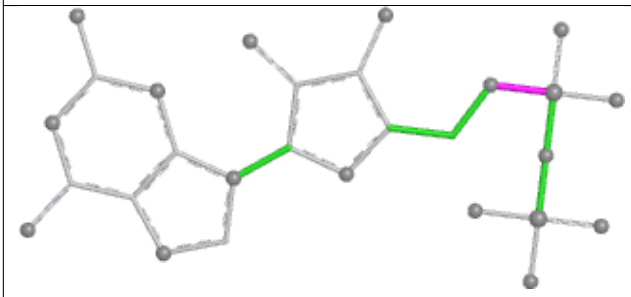

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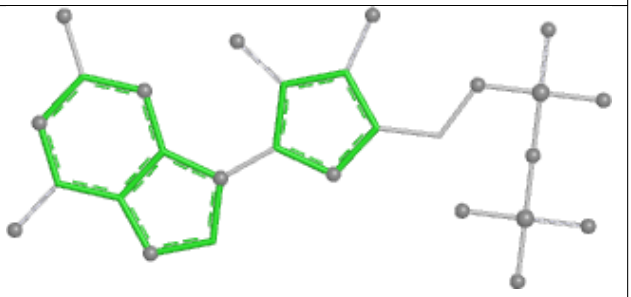
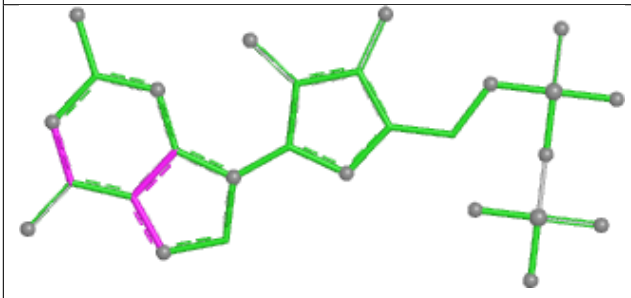


Rings

Ligand GDP HB 501



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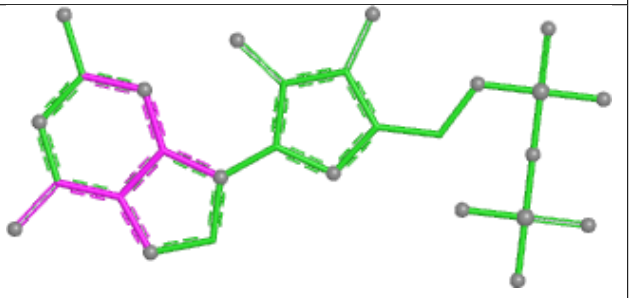

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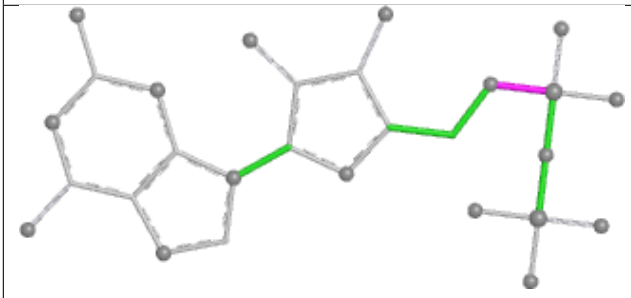

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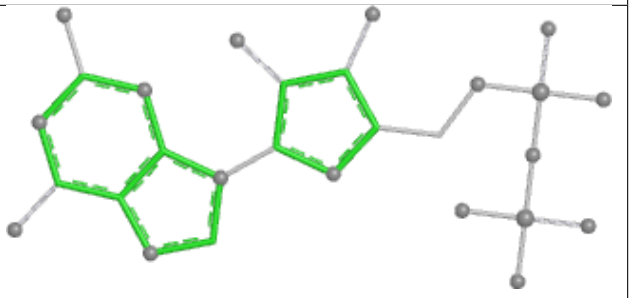
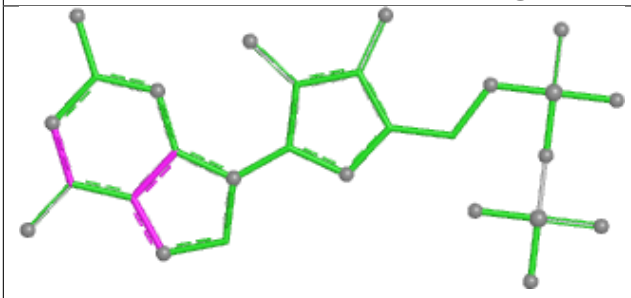
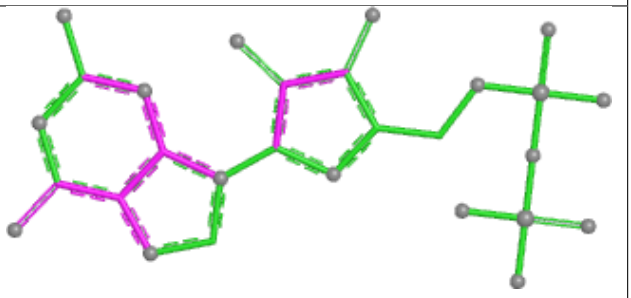
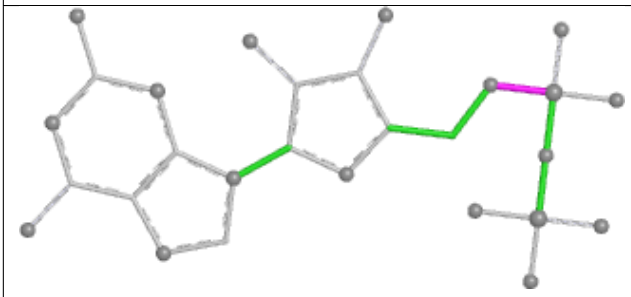
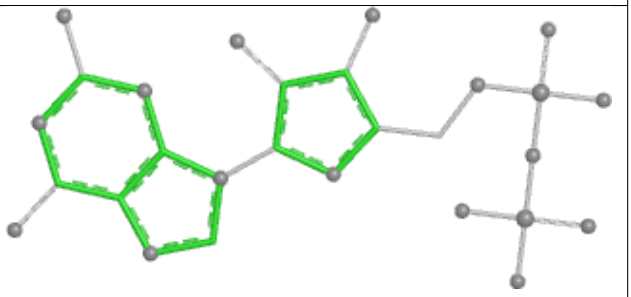


Rings

Ligand GDP AJ 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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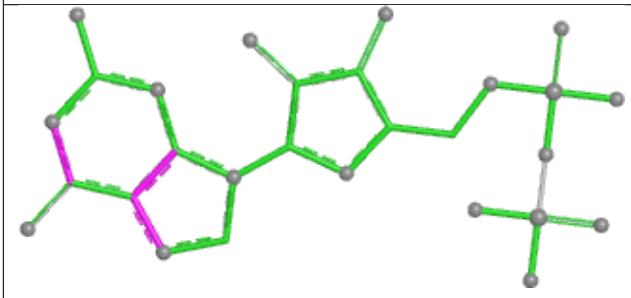
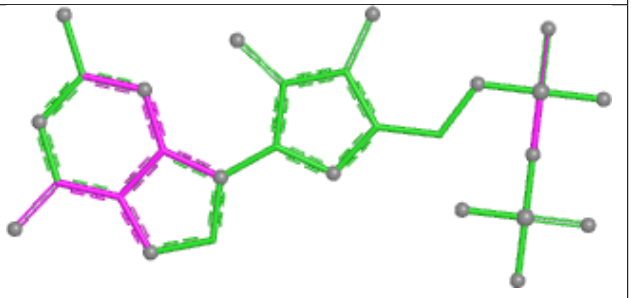
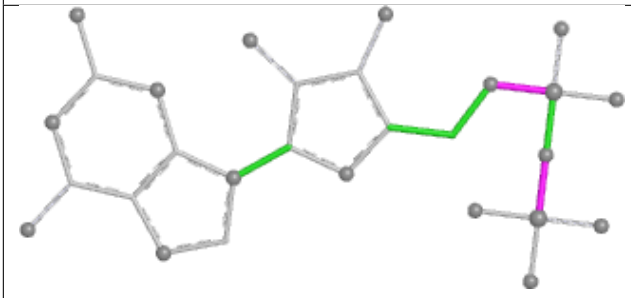
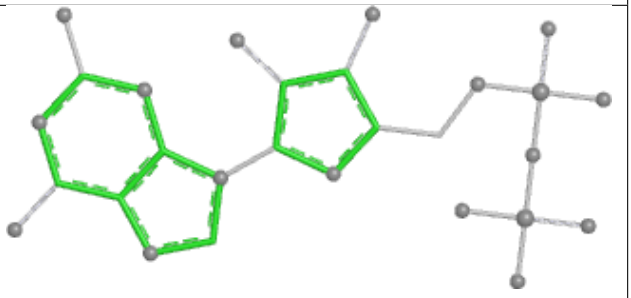
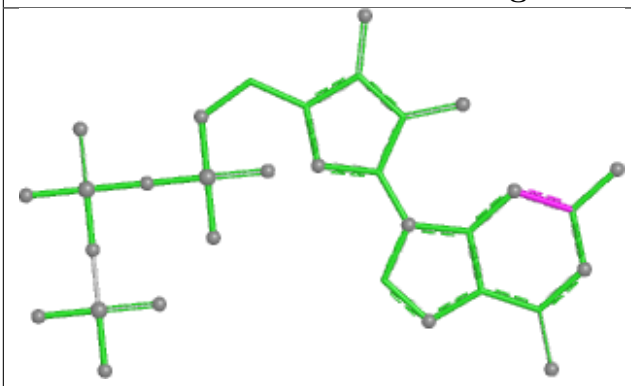
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP VC 501



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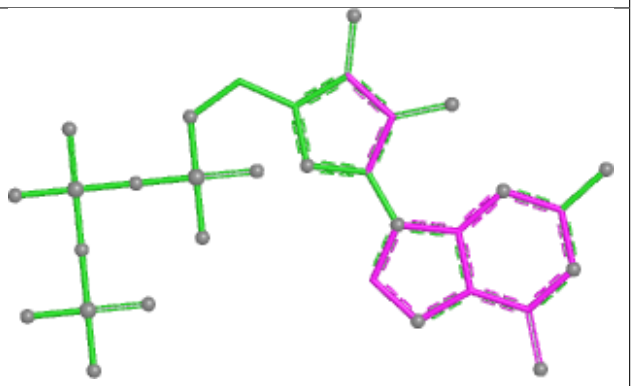

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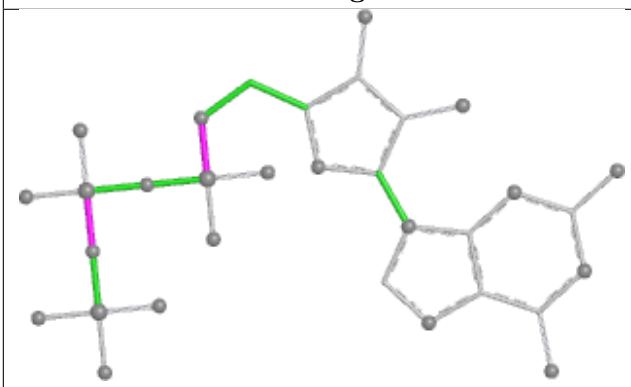

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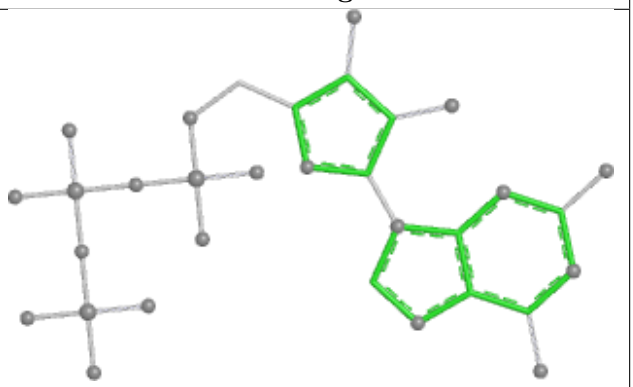

Rings

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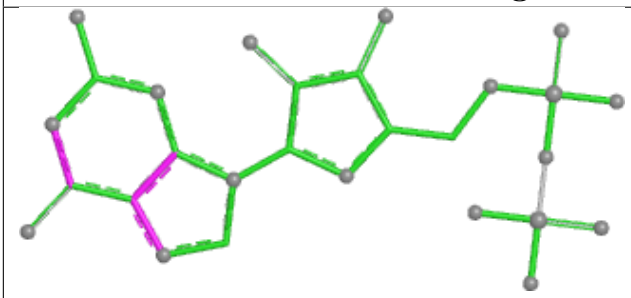

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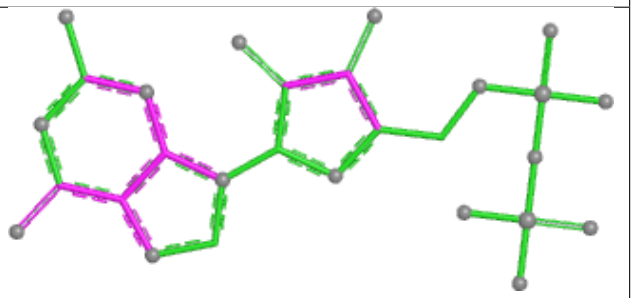

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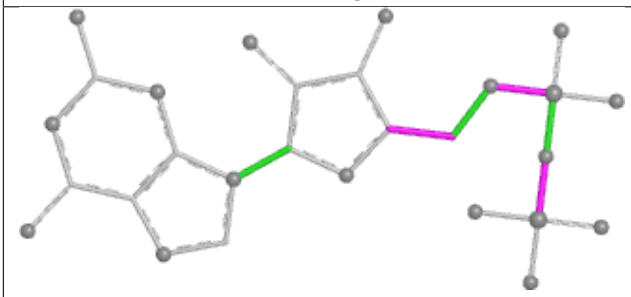

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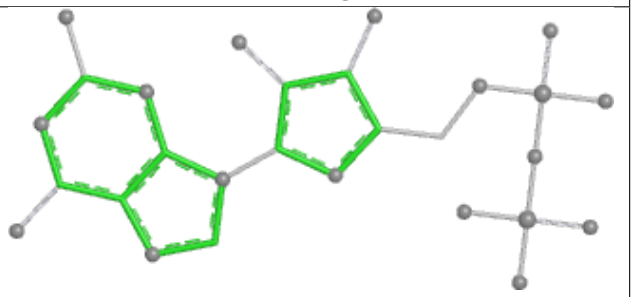
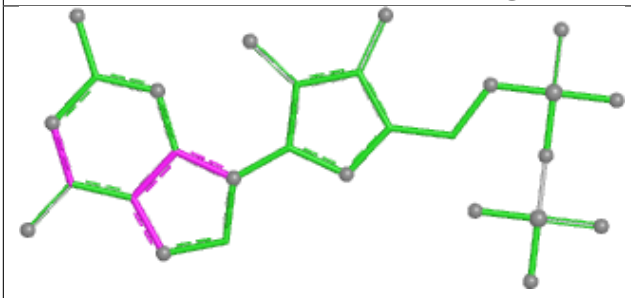
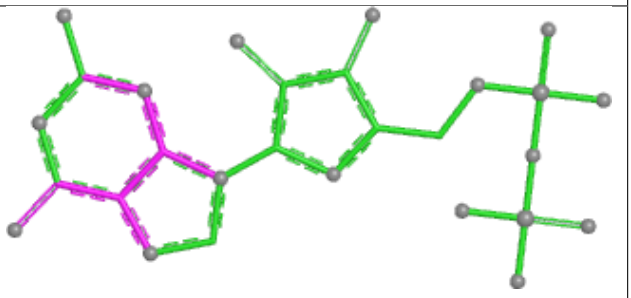
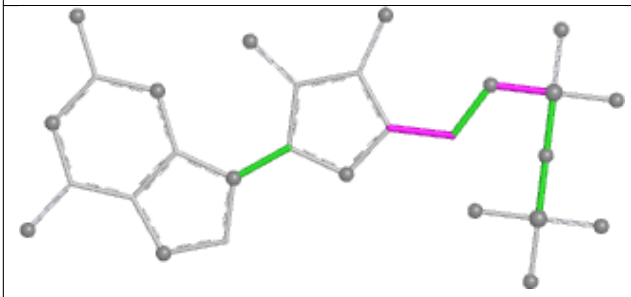
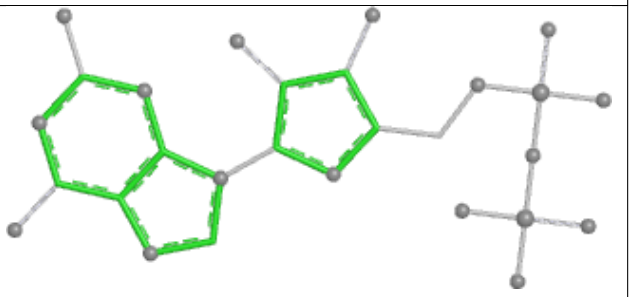
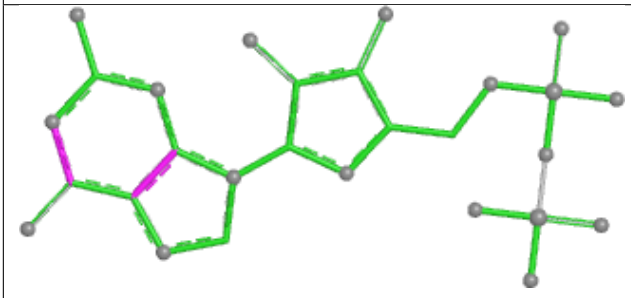
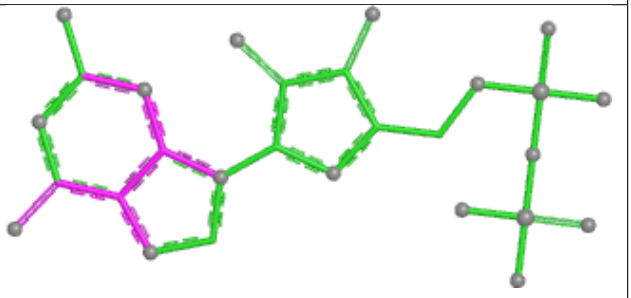
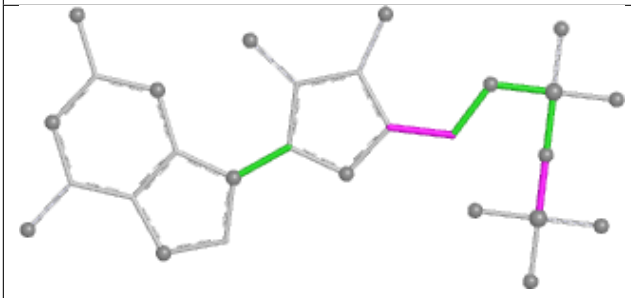
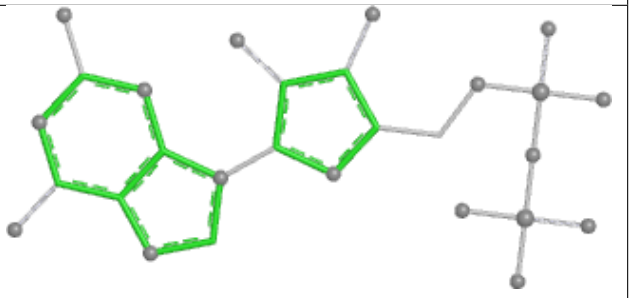
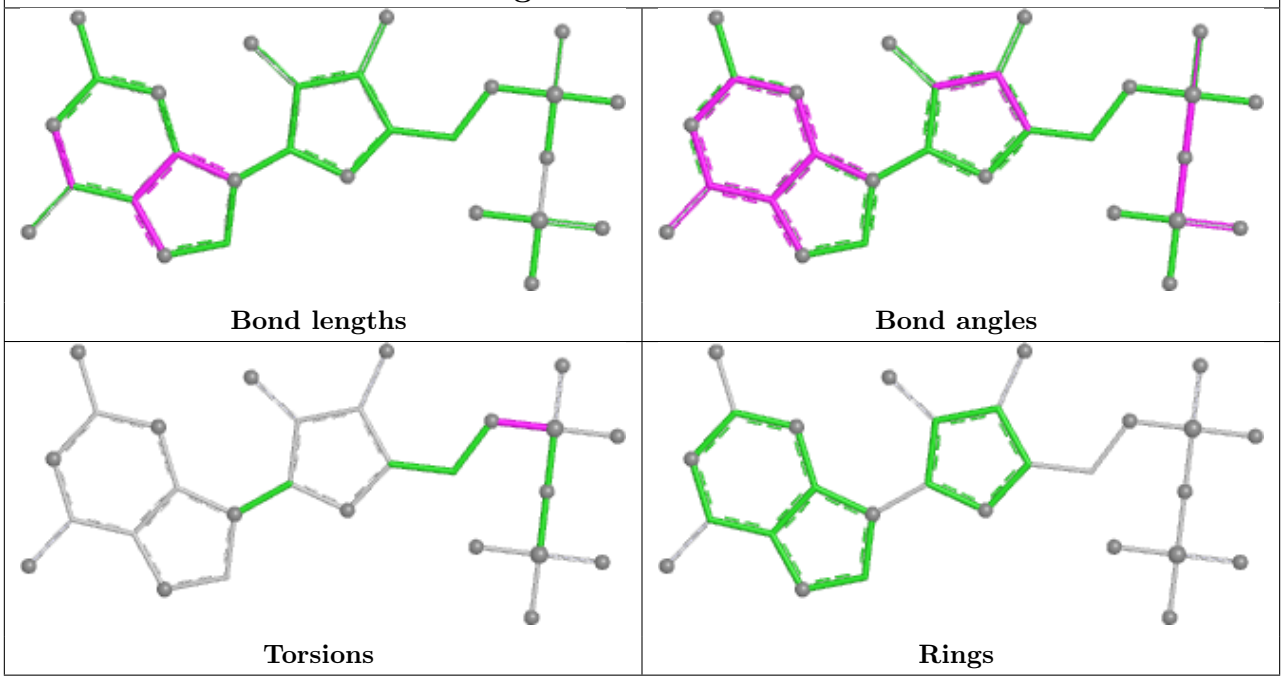


Rings

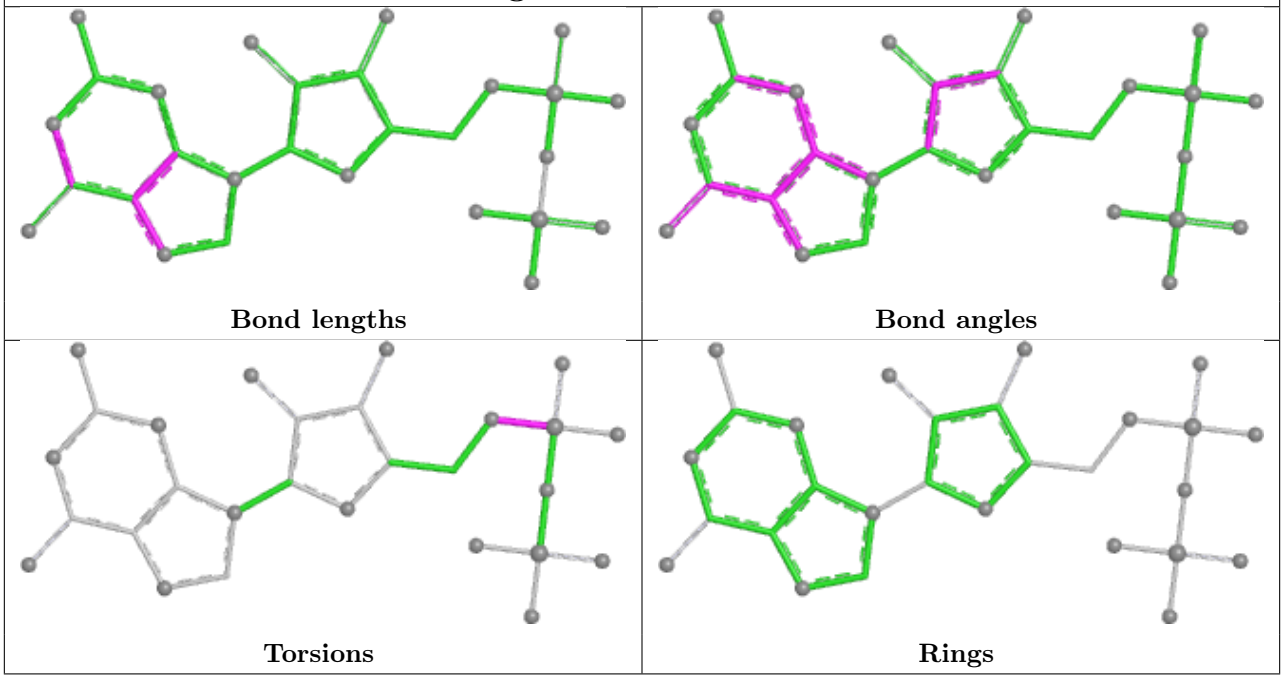
Ligand GDP MN 501	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand GDP JF 501	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand GDP PJ 501



Ligand GDP AD 501



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
25	Bl	6
25	Bn	6
25	Bp	6
25	Bo	6
25	Bm	6

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Bl	83:UNK	C	103:UNK	N	55.09
1	Bl	151:UNK	C	171:UNK	N	54.90
1	Bn	151:UNK	C	171:UNK	N	54.16
1	Bp	116:UNK	C	135:UNK	N	50.17
1	Bp	218:UNK	C	236:UNK	N	49.54
1	Bo	218:UNK	C	236:UNK	N	49.16
1	Bm	151:UNK	C	169:UNK	N	48.86
1	Bo	117:UNK	C	136:UNK	N	47.32
1	Bm	49:UNK	C	67:UNK	N	45.44
1	Bm	219:UNK	C	235:UNK	N	43.88
1	Bm	86:UNK	C	100:UNK	N	41.26
1	Bn	52:UNK	C	69:UNK	N	40.34
1	Bn	89:UNK	C	104:UNK	N	39.66
1	Bn	221:UNK	C	235:UNK	N	37.88
1	Bo	185:UNK	C	200:UNK	N	37.33
1	Bl	53:UNK	C	68:UNK	N	37.09
1	Bn	191:UNK	C	206:UNK	N	35.50
1	Bl	191:UNK	C	206:UNK	N	35.03
1	Bm	191:UNK	C	206:UNK	N	34.57
1	Bl	119:UNK	C	132:UNK	N	33.11
1	Bm	118:UNK	C	131:UNK	N	31.66
1	Bo	56:UNK	C	70:UNK	N	31.62
1	Bl	224:UNK	C	235:UNK	N	31.23
1	Bo	157:UNK	C	168:UNK	N	30.94
1	Bn	123:UNK	C	134:UNK	N	30.11
1	Bp	56:UNK	C	69:UNK	N	29.18
1	Bo	92:UNK	C	101:UNK	N	24.98
1	Bp	93:UNK	C	101:UNK	N	23.78
1	Bp	190:UNK	C	197:UNK	N	15.87
1	Bp	163:UNK	C	167:UNK	N	15.48

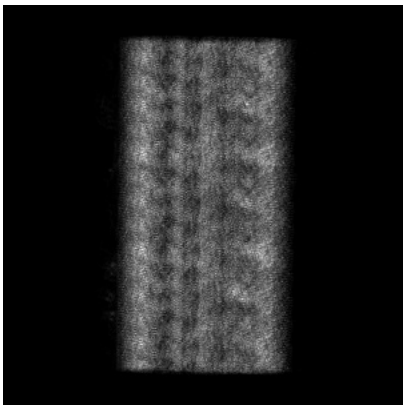
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-17187. These allow visual inspection of the internal detail of the map and identification of artifacts.

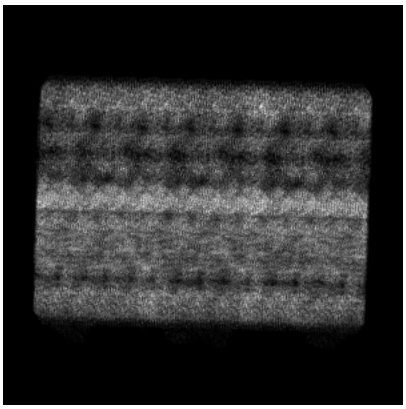
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

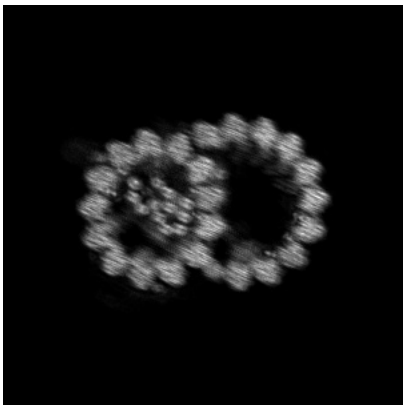
6.1.1 Primary map



X

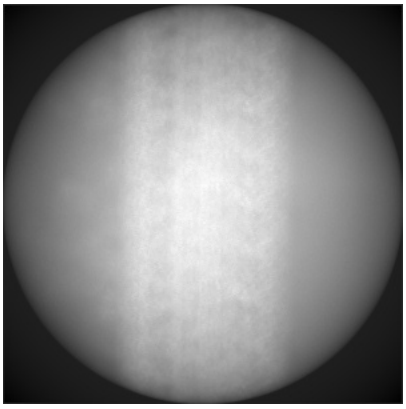


Y

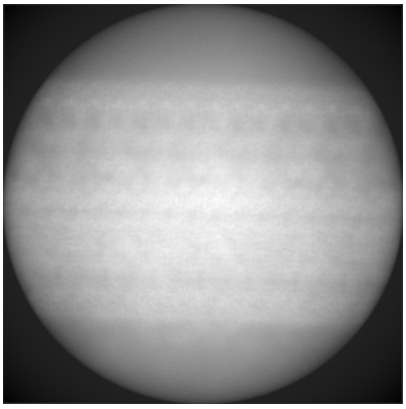


Z

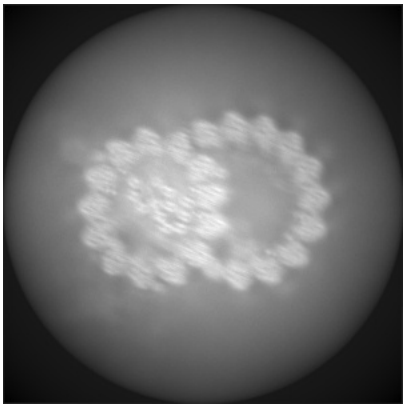
6.1.2 Raw map



X



Y

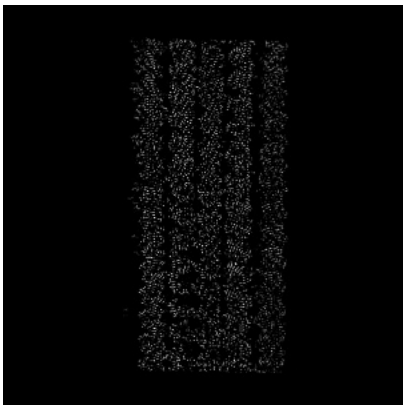


Z

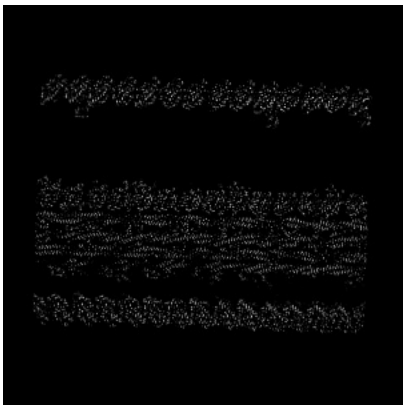
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

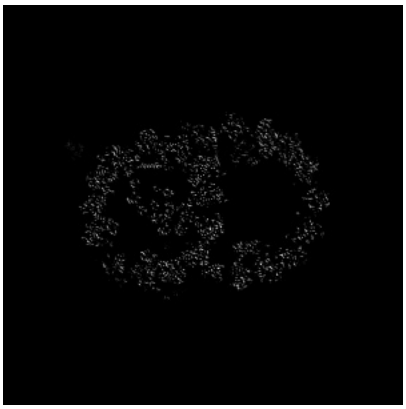
6.2.1 Primary map



X Index: 336

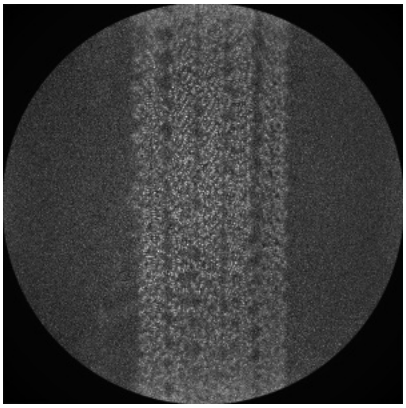


Y Index: 336

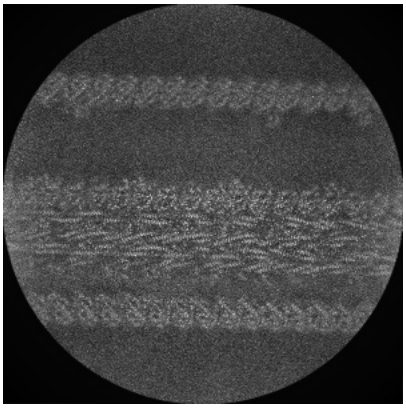


Z Index: 336

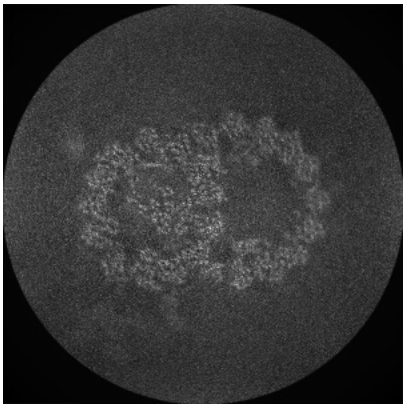
6.2.2 Raw map



X Index: 336



Y Index: 336

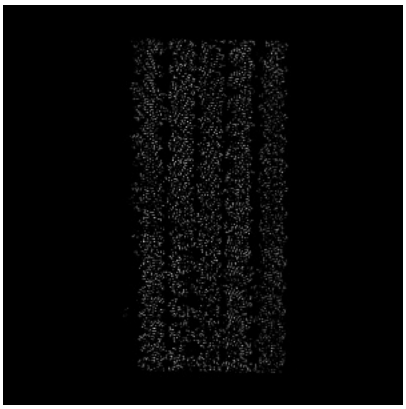


Z Index: 336

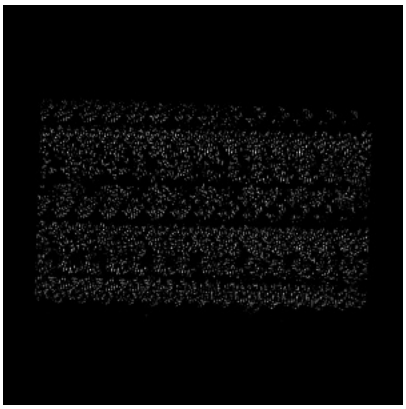
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

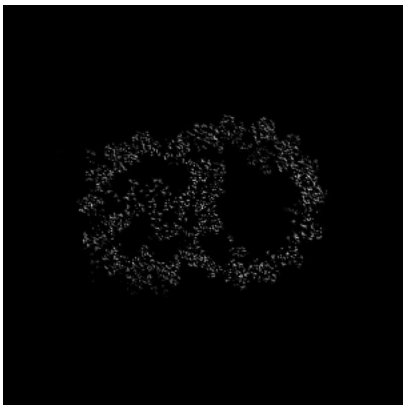
6.3.1 Primary map



X Index: 337

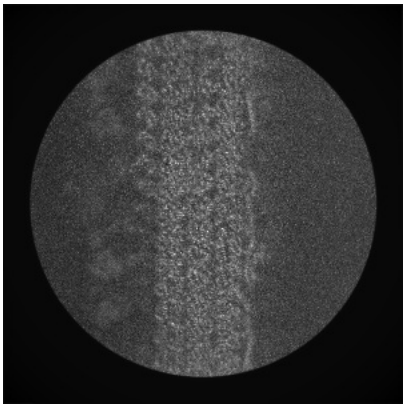


Y Index: 233

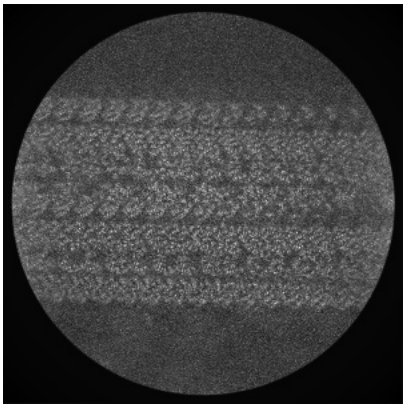


Z Index: 425

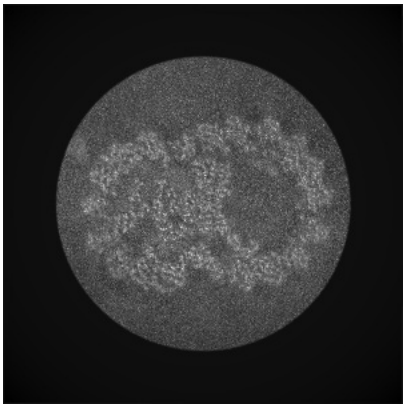
6.3.2 Raw map



X Index: 165



Y Index: 233

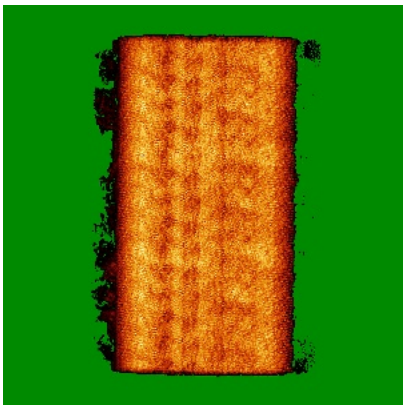


Z Index: 106

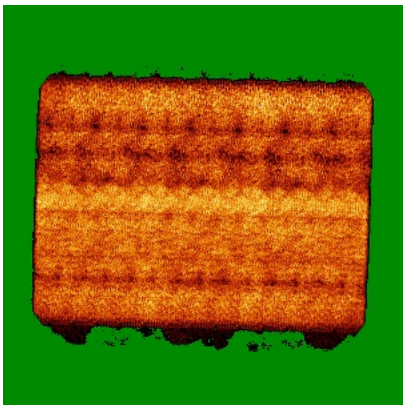
The images above show the largest variance slices of the map in three orthogonal directions.

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

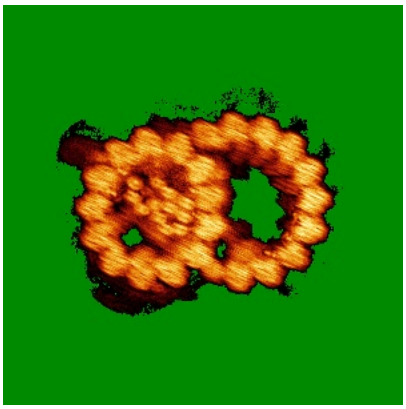
6.4.1 Primary map



X

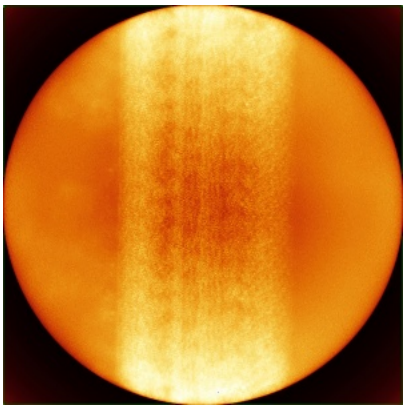


Y

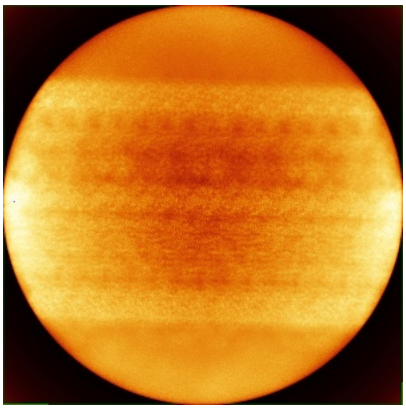


Z

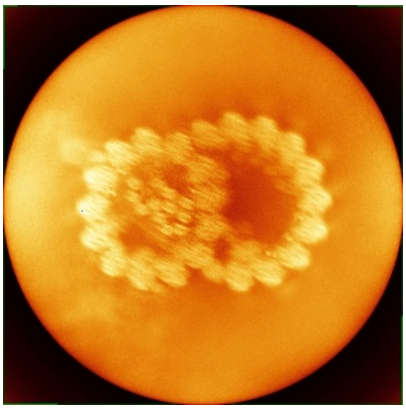
6.4.2 Raw map



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)

This section was not generated.

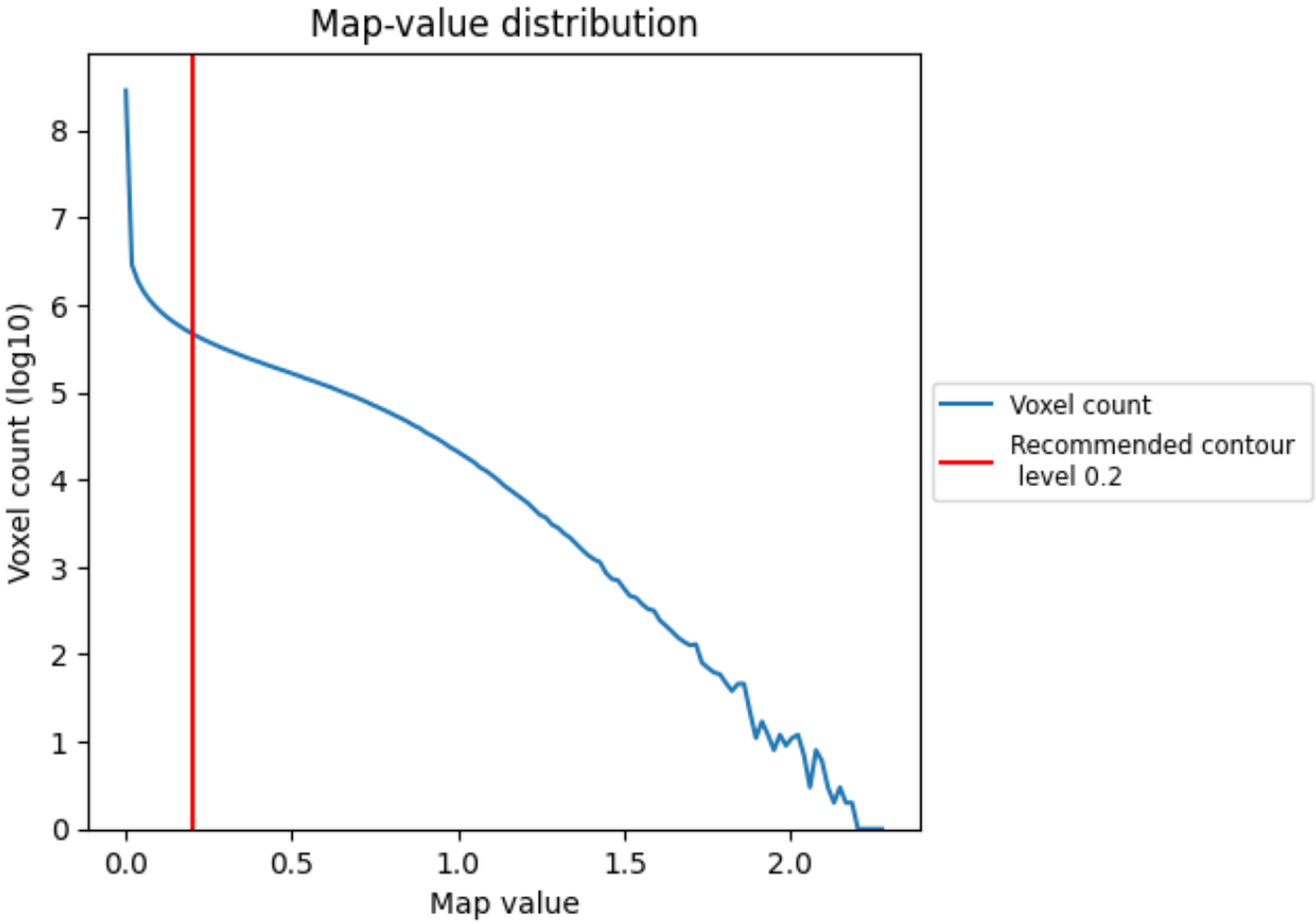
6.6 Mask visualisation (i)

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

7 Map analysis

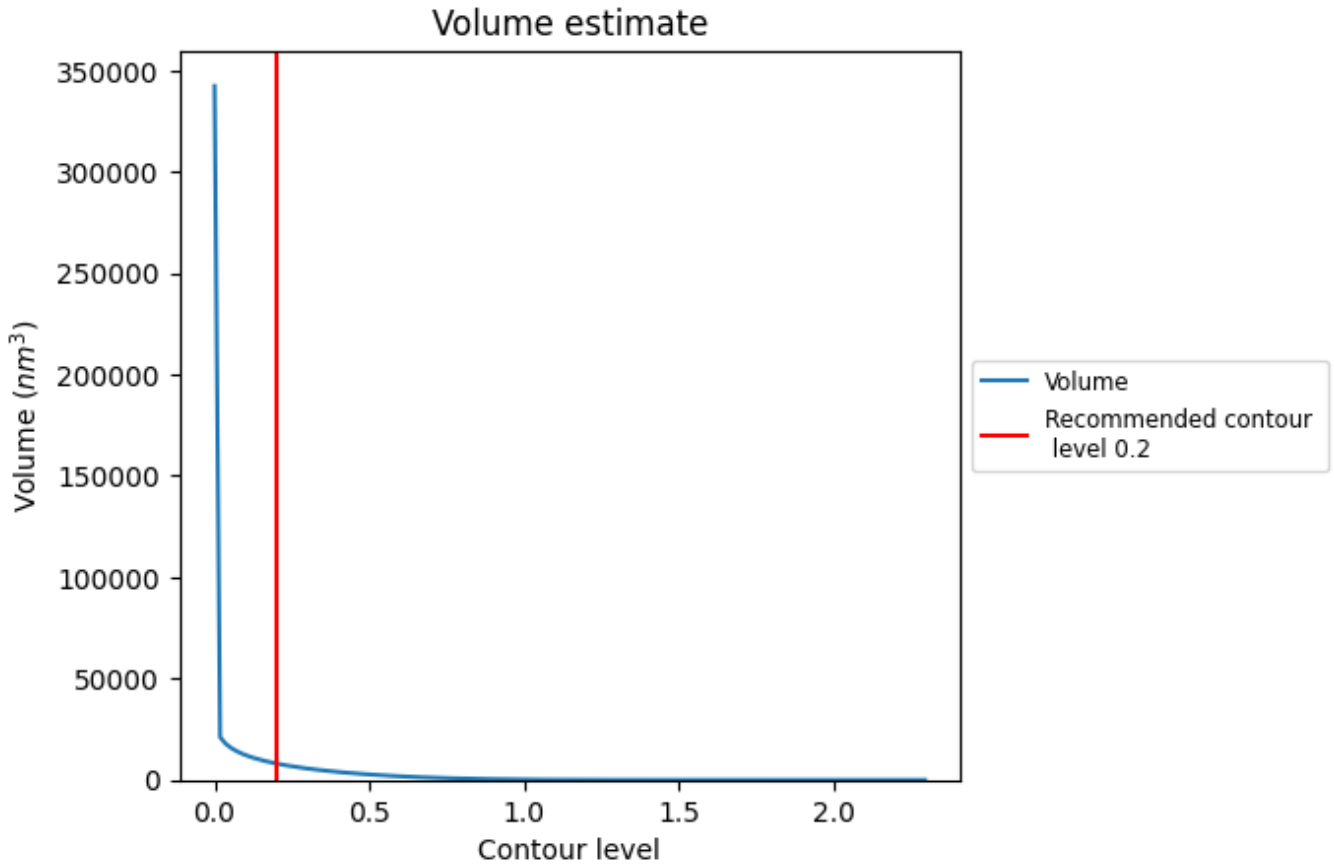
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

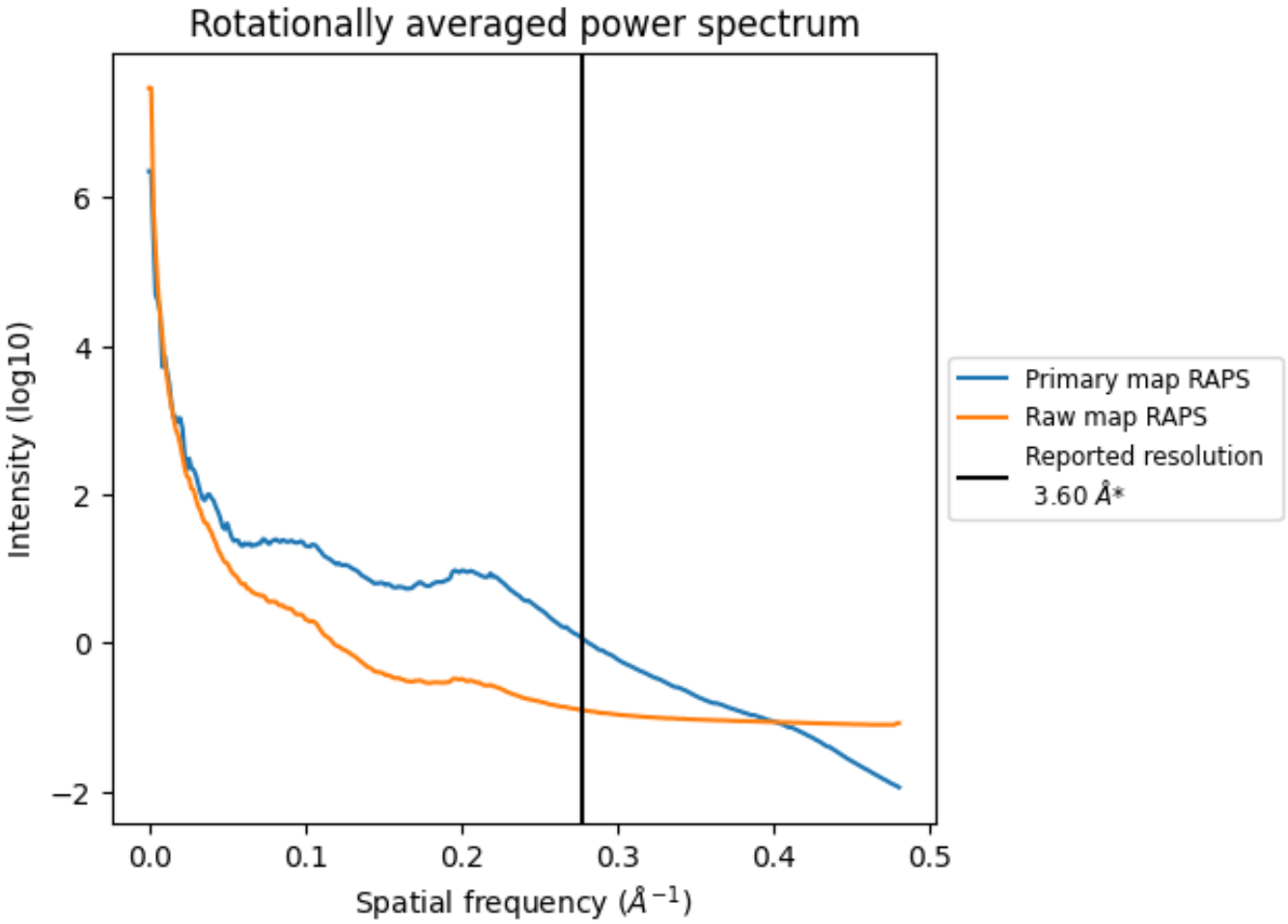
7.2 Volume estimate



The volume at the recommended contour level is 8092 nm^3; this corresponds to an approximate mass of 7310 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)

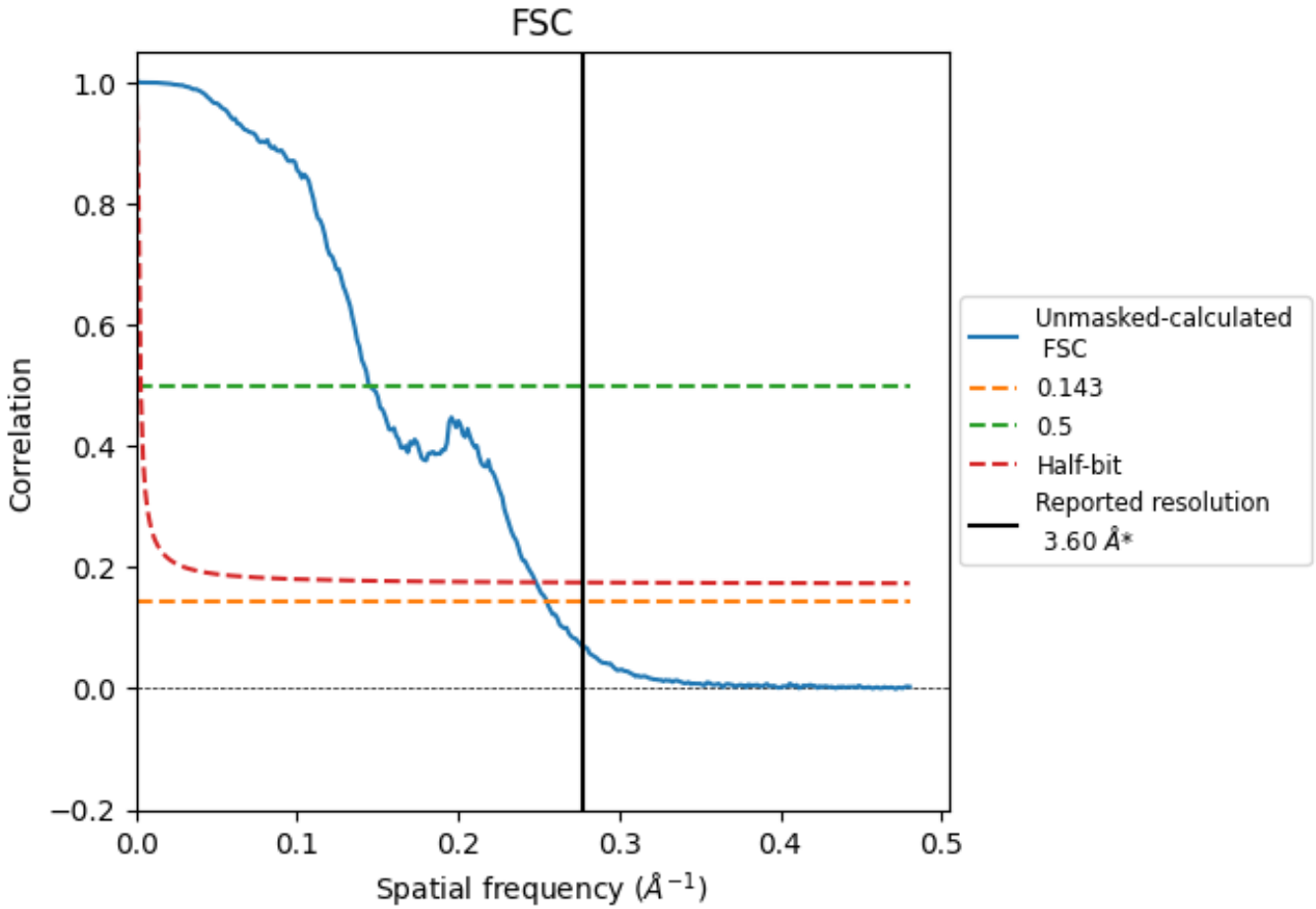


*Reported resolution corresponds to spatial frequency of 0.278 Å^{-1}

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 0.278 Å^{-1}

8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.60	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.92	6.91	4.03

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

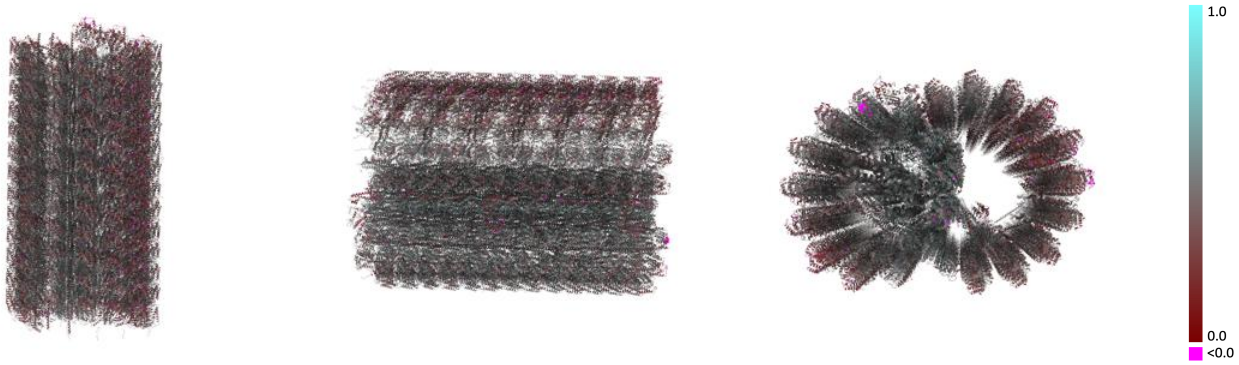
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-17187 and PDB model 8OTZ. Per-residue inclusion information can be found in section 3 on page 83.

9.1 Map-model overlay

This section was not generated.

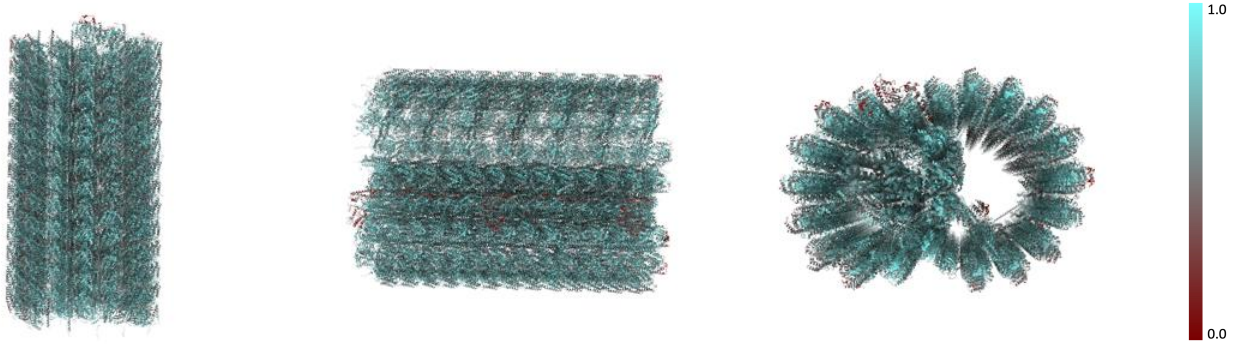
9.2 Q-score mapped to coordinate model



X Y Z

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

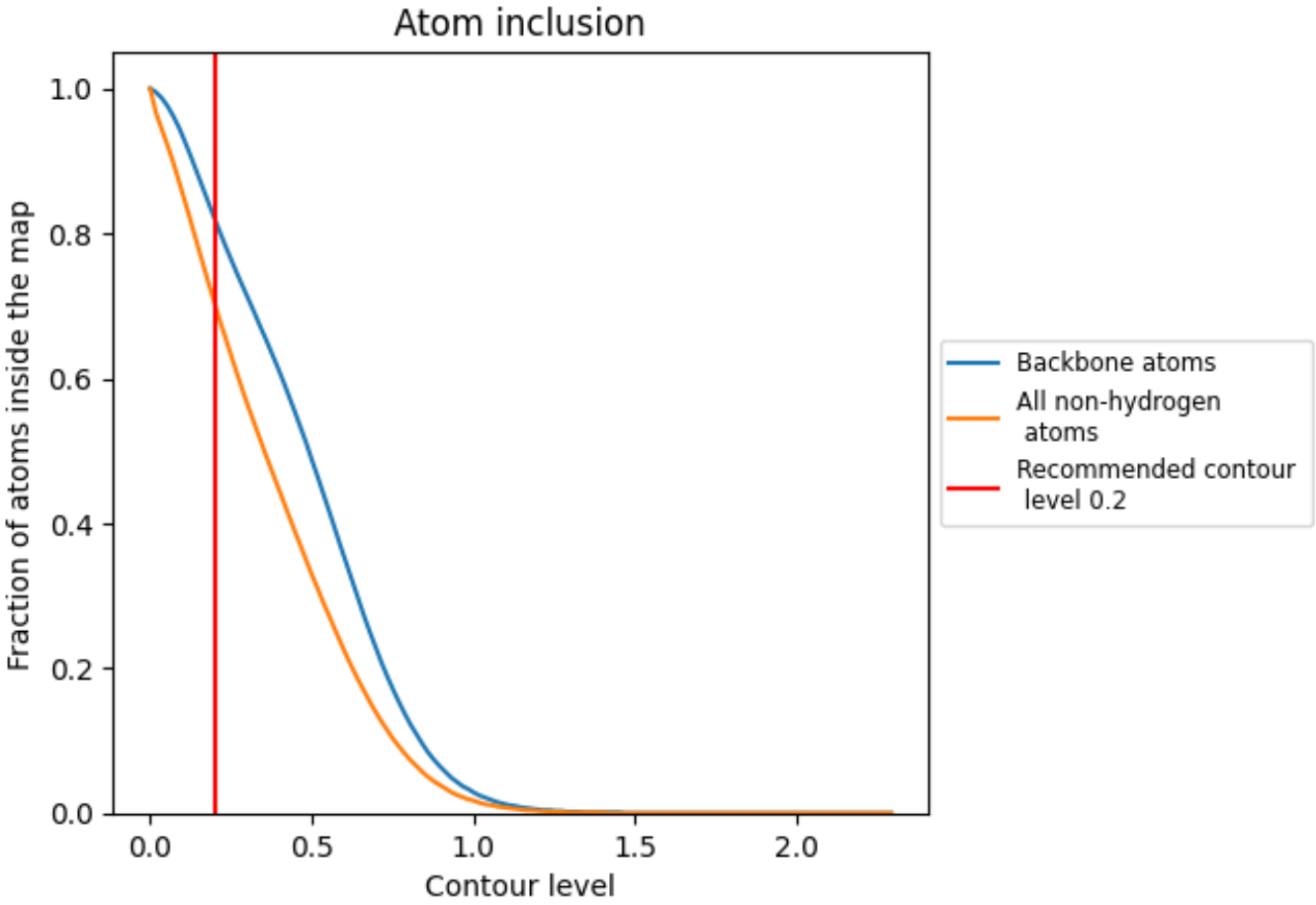
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.2).

9.4 Atom inclusion (i)



At the recommended contour level, 82% of all backbone atoms, 70% 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 (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7030	0.4380
0	0.8150	0.4950
0A	0.6410	0.3760
0C	0.5730	0.3630
0E	0.4740	0.3250
0G	0.5510	0.4050
0W	0.5900	0.4100
0Y	0.6150	0.3660
0a	0.5950	0.3580
0c	0.5520	0.3310
0e	0.6530	0.4400
0g	0.6110	0.3550
0i	0.6080	0.3360
0k	0.5270	0.2870
1	0.2550	0.2630
2	0.2450	0.2800
3	0.5620	0.3870
A	0.6710	0.4020
A0	0.6540	0.4300
A1	0.5170	0.3790
A2	0.6230	0.3500
A3	0.6280	0.3710
A4	0.6190	0.3440
A5	0.6080	0.3610
A6	0.7220	0.3920
A7	0.6710	0.3660
A8	0.6070	0.3700
A9	0.6390	0.4100
AA	0.7750	0.4890
AB	0.7690	0.4930
AC	0.7790	0.4980
AD	0.7890	0.4970
AE	0.7930	0.4970
AF	0.7730	0.4990
AG	0.7640	0.4980

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Chain	Atom inclusion	Q-score
AH	0.7610	0.5020
AI	0.8080	0.5030
AJ	0.7810	0.5000
AK	0.7690	0.4970
AL	0.7640	0.4930
AM	0.7810	0.4920
AP	0.7660	0.4970
AQ	0.7610	0.4970
AR	0.7270	0.4750
AS	0.7560	0.4930
AT	0.6560	0.3970
AU	0.6920	0.4100
AV	0.7510	0.4820
AW	0.7550	0.4740
Aa	0.7150	0.4380
Ab	0.7380	0.4540
Ac	0.7480	0.4570
Ad	0.7240	0.4370
Al	0.7860	0.4630
Am	0.8170	0.4800
An	0.8170	0.4870
Ao	0.7250	0.4740
Ap	0.7400	0.4750
Aq	0.7850	0.4930
Ar	0.7880	0.5030
At	0.5650	0.4050
Au	0.6890	0.4380
Av	0.6330	0.4220
Aw	0.6530	0.4300
Ax	0.5070	0.3810
Ay	0.6510	0.4240
Az	0.5810	0.4030
B	0.7070	0.4410
B0	0.6560	0.4170
B1	0.6420	0.4150
B2	0.7800	0.5060
B3	0.7510	0.5030
B4	0.7260	0.4750
B5	0.6420	0.4160
B6	0.6260	0.4180
B7	0.7760	0.4720
B8	0.7080	0.4620

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Chain	Atom inclusion	Q-score
B9	0.7000	0.4350
BA	0.7230	0.4400
BB	0.7460	0.4590
BC	0.7560	0.4730
BD	0.7490	0.4670
BE	0.7650	0.4640
BF	0.7400	0.4640
BG	0.7450	0.4760
BH	0.7460	0.4680
BI	0.7620	0.4660
BJ	0.7490	0.4620
BK	0.7490	0.4660
BL	0.7550	0.4710
BM	0.7470	0.4640
BN	0.6720	0.4610
BO	0.6700	0.4380
BP	0.6750	0.4680
BQ	0.6720	0.4610
BR	0.6810	0.4630
BS	0.6720	0.4430
BT	0.6820	0.4590
BU	0.6750	0.4790
BV	0.7380	0.5070
BW	0.7500	0.4890
BX	0.7060	0.4320
BY	0.7450	0.4830
BZ	0.7580	0.4740
Ba	0.7000	0.4630
Bb	0.7180	0.4560
Bc	0.7210	0.4710
Bd	0.7700	0.4870
Be	0.7600	0.4470
Bf	0.6900	0.4300
Bg	0.7580	0.4560
Bh	0.7470	0.4630
Bi	0.7350	0.4780
Bj	0.6590	0.4440
Bk	0.6440	0.4450
Bl	0.7830	0.4660
Bm	0.8160	0.4760
Bn	0.8380	0.4600
Bo	0.8620	0.4610

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Chain	Atom inclusion	Q-score
Bp	0.7890	0.5080
Bq	0.6600	0.4690
Br	0.7150	0.4320
Bs	0.7020	0.4210
Bu	0.6510	0.4760
By	0.6280	0.3840
Bz	0.6400	0.4220
C	0.7270	0.4650
C0	0.7520	0.4920
C1	0.6770	0.4640
C2	0.7370	0.5050
C3	0.7540	0.5110
C4	0.7450	0.5010
C5	0.7580	0.5110
C6	0.7880	0.4920
C7	0.7590	0.5170
C8	0.7640	0.5030
C9	0.7480	0.5010
CA	0.6110	0.3670
CB	0.6670	0.4080
CC	0.6920	0.4240
CD	0.6730	0.4140
CE	0.7130	0.4310
CF	0.7010	0.4350
CG	0.6810	0.4460
CH	0.6850	0.4370
CI	0.6950	0.4440
CJ	0.7190	0.4390
CK	0.6910	0.4420
CL	0.6900	0.4430
CM	0.6790	0.4300
CN	0.7340	0.4330
CO	0.7390	0.4620
CQ	0.6680	0.4220
CR	0.6080	0.3910
CS	0.6830	0.4380
CT	0.6620	0.3730
CU	0.6240	0.3710
CV	0.5200	0.3540
CW	0.7280	0.4900
CX	0.6590	0.3760
CY	0.5480	0.3530

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Chain	Atom inclusion	Q-score
CZ	0.6160	0.4010
Ca	0.6620	0.3760
Cb	0.6670	0.3670
Cc	0.6410	0.4060
Cd	0.6030	0.3690
Ce	0.4970	0.3790
Cf	0.5210	0.3480
Cg	0.5820	0.4000
Ch	0.6270	0.3730
Ci	0.6080	0.3610
Cj	0.5470	0.3580
Ck	0.5080	0.3110
Cl	0.6730	0.4260
Cm	0.7570	0.5100
Cn	0.7590	0.5040
Co	0.7660	0.5060
Cp	0.7590	0.4980
Cq	0.7710	0.5030
Cr	0.7660	0.5070
Cs	0.7570	0.4900
Ct	0.7680	0.5060
Cu	0.7190	0.4940
Cv	0.7270	0.5040
Cw	0.7100	0.4960
Cx	0.7240	0.4950
Cy	0.7200	0.4730
Cz	0.6210	0.4410
D	0.7330	0.4330
D0	0.7110	0.4350
D1	0.7090	0.4620
D2	0.6980	0.4680
D3	0.6940	0.4440
D4	0.6710	0.4400
D5	0.6790	0.4360
D6	0.6810	0.4310
D7	0.7110	0.4390
D8	0.6960	0.4520
D9	0.6900	0.4290
DA	0.5710	0.2960
DB	0.6320	0.3450
DC	0.6680	0.3680
DD	0.6770	0.3780

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Chain	Atom inclusion	Q-score
DE	0.6890	0.3780
DF	0.7190	0.4090
DG	0.6820	0.4180
DH	0.6870	0.4080
DI	0.6910	0.4110
DJ	0.7390	0.4150
DK	0.6770	0.3890
DL	0.6980	0.4050
DM	0.6770	0.3950
DN	0.6280	0.3350
DO	0.7950	0.5070
DP	0.6630	0.4370
DQ	0.6530	0.4430
DR	0.5250	0.3910
DS	0.5940	0.4260
DT	0.6630	0.4130
DU	0.6750	0.4400
DV	0.6400	0.4370
DW	0.6630	0.4290
DX	0.5350	0.3710
DY	0.7130	0.4600
DZ	0.7440	0.4920
Da	0.6720	0.4720
Db	0.7250	0.4430
Dc	0.7290	0.4520
Dd	0.6540	0.4140
De	0.6340	0.3830
Df	0.6430	0.4440
Dg	0.5960	0.4430
Dh	0.5990	0.4320
Di	0.6690	0.4740
Dj	0.7030	0.4870
Dk	0.6820	0.4730
Dl	0.6730	0.4670
Dm	0.7730	0.4920
Dn	0.5110	0.3670
E	0.7600	0.4570
E1	0.7560	0.4990
E2	0.7660	0.5110
E3	0.7590	0.4930
E4	0.7370	0.4850
EA	0.6900	0.4710

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Chain	Atom inclusion	Q-score
EB	0.5950	0.3500
EC	0.6500	0.3940
ED	0.6650	0.3970
EE	0.6780	0.4040
EF	0.7100	0.4260
EG	0.6860	0.4350
EH	0.6790	0.4290
EI	0.6950	0.4340
EJ	0.7300	0.4430
EK	0.6750	0.4070
EL	0.6920	0.4340
EM	0.6900	0.4280
EN	0.6350	0.3960
EO	0.6900	0.4600
EP	0.7010	0.4660
EQ	0.7040	0.4610
ER	0.7300	0.4520
ES	0.7790	0.5130
ET	0.7740	0.5090
EU	0.7650	0.5070
EV	0.7630	0.5160
EW	0.6960	0.4880
EX	0.6990	0.4910
EY	0.7040	0.4810
EZ	0.7010	0.4920
Ee	0.7840	0.5310
F	0.7710	0.4660
F2	0.7680	0.5250
F3	0.7610	0.5090
F4	0.7540	0.5140
F5	0.7570	0.5170
F6	0.7560	0.4950
FB	0.6520	0.3910
FC	0.6890	0.4260
FD	0.6890	0.4320
FE	0.7100	0.4410
FF	0.7490	0.4480
FG	0.7280	0.4580
FH	0.7270	0.4580
FI	0.7180	0.4540
FJ	0.7390	0.4470
FK	0.7190	0.4430

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Chain	Atom inclusion	Q-score
FL	0.7190	0.4560
FM	0.7360	0.4540
FN	0.6780	0.4130
G	0.6850	0.4300
GB	0.6690	0.4060
GC	0.6960	0.4240
GD	0.7100	0.4380
GE	0.7130	0.4440
GF	0.7450	0.4500
GG	0.7100	0.4470
GH	0.7200	0.4630
GI	0.7120	0.4530
GJ	0.7380	0.4620
GK	0.7330	0.4480
GL	0.7210	0.4500
GM	0.7130	0.4500
GN	0.6880	0.4210
H	0.6550	0.4060
HB	0.6190	0.3990
HC	0.6920	0.4500
HD	0.7150	0.4610
HE	0.7180	0.4660
HF	0.7170	0.4630
HG	0.7050	0.4640
HH	0.6960	0.4650
HI	0.7090	0.4700
HJ	0.7240	0.4770
HK	0.7210	0.4480
HL	0.7120	0.4690
HM	0.7170	0.4700
HN	0.6930	0.4530
HO	0.6710	0.4360
I	0.7400	0.4810
IB	0.6610	0.4120
IC	0.7430	0.4820
ID	0.7430	0.4840
IE	0.7410	0.4870
IF	0.7360	0.4740
IG	0.7460	0.4760
IH	0.7440	0.4880
II	0.7380	0.4800
IJ	0.7380	0.4920

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Chain	Atom inclusion	Q-score
IK	0.7570	0.4690
IL	0.7350	0.4700
IM	0.7330	0.4780
IN	0.7340	0.4560
IO	0.7320	0.4510
J	0.6790	0.4000
JB	0.7390	0.4870
JC	0.7390	0.4960
JD	0.7410	0.5040
JE	0.7400	0.4980
JF	0.7670	0.4970
JG	0.7470	0.5010
JH	0.7520	0.5060
JI	0.7470	0.4980
JJ	0.7740	0.5000
JK	0.7370	0.4910
JL	0.7400	0.4950
JM	0.7410	0.4890
JN	0.7390	0.4810
K	0.6970	0.4220
K1	0.7000	0.4370
KB	0.7380	0.4580
KC	0.8080	0.5150
KD	0.8100	0.5190
KE	0.7950	0.5170
KF	0.8010	0.5150
KG	0.8150	0.5240
KH	0.8090	0.5320
KI	0.8000	0.5280
KJ	0.7850	0.5180
KK	0.8290	0.5270
KL	0.7990	0.5250
KM	0.7990	0.5190
KN	0.7890	0.5100
KO	0.8160	0.5080
L	0.7310	0.4330
L1	0.6560	0.4130
L2	0.6800	0.4240
LB	0.7310	0.4900
LC	0.7550	0.5150
LD	0.7400	0.5210
LE	0.7310	0.5170

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Chain	Atom inclusion	Q-score
LF	0.7800	0.5180
LG	0.7620	0.5310
LH	0.7580	0.5380
LI	0.7430	0.5220
LJ	0.7660	0.5270
LK	0.7670	0.5210
LL	0.7590	0.5280
LM	0.7370	0.5180
LN	0.7580	0.5150
M	0.6740	0.3950
MB	0.7950	0.5000
MC	0.7930	0.5110
MD	0.7900	0.5090
ME	0.7980	0.5140
MF	0.8260	0.5170
MG	0.7990	0.5190
MH	0.7920	0.5230
MI	0.7960	0.5200
MJ	0.8110	0.5200
MK	0.7830	0.5030
ML	0.7960	0.5150
MM	0.7960	0.5160
MN	0.8070	0.5080
N	0.4530	0.3570
N0	0.6630	0.3940
NA	0.6730	0.4080
NB	0.6480	0.4190
NC	0.6490	0.4140
ND	0.7150	0.4220
NE	0.6870	0.4230
NF	0.6530	0.4110
NG	0.6570	0.4120
NH	0.6840	0.4170
NI	0.6750	0.4090
NJ	0.6530	0.4130
NK	0.6470	0.4080
NL	0.6520	0.4030
O	0.4470	0.3870
O0	0.6450	0.4100
OA	0.7000	0.4550
OB	0.6920	0.4600
OC	0.6910	0.4550

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Chain	Atom inclusion	Q-score
OD	0.7100	0.4330
OE	0.7250	0.4480
OF	0.6950	0.4380
OG	0.6810	0.4380
OH	0.6910	0.4280
OI	0.6990	0.4140
OJ	0.6820	0.4430
OK	0.7000	0.4580
OL	0.6970	0.4420
P	0.6710	0.3890
PA	0.7010	0.3900
PB	0.7180	0.4050
PC	0.6960	0.3820
PD	0.6990	0.3720
PE	0.7070	0.3570
PF	0.6820	0.3810
PG	0.6590	0.3650
PH	0.6820	0.3700
PI	0.7190	0.3620
PJ	0.7010	0.3940
PK	0.7020	0.3970
PL	0.7310	0.4170
PM	0.7020	0.3930
Q	0.7560	0.4920
QA	0.6460	0.3170
QB	0.6900	0.3510
QC	0.6470	0.3280
QD	0.6710	0.3210
QE	0.6900	0.3150
QF	0.6500	0.3220
QG	0.6520	0.3170
QH	0.6680	0.3240
QI	0.7160	0.3190
QJ	0.6810	0.3280
QK	0.6530	0.3310
QL	0.6920	0.3410
QM	0.6650	0.3270
R	0.7240	0.4820
RA	0.6370	0.3150
RB	0.6880	0.3560
RC	0.6770	0.3490
RD	0.6670	0.3390

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Chain	Atom inclusion	Q-score
RE	0.7180	0.3390
RF	0.6790	0.3590
RG	0.6390	0.3400
RH	0.6760	0.3590
RI	0.6980	0.3410
RJ	0.6920	0.3400
RK	0.6550	0.3460
RL	0.6850	0.3520
RM	0.6420	0.3410
S	0.7110	0.4720
SA	0.6160	0.3070
SB	0.6940	0.3780
SC	0.7040	0.3770
SD	0.7080	0.3810
SE	0.7540	0.3920
SF	0.7220	0.3920
SG	0.7020	0.3950
SH	0.7100	0.4030
SI	0.7180	0.3800
SJ	0.7390	0.3870
SK	0.7090	0.3980
SL	0.7200	0.3970
SM	0.7030	0.3830
T	0.7220	0.4680
TB	0.6780	0.3850
TC	0.7190	0.4110
TD	0.7120	0.4150
TE	0.7420	0.4130
TF	0.7450	0.4210
TG	0.7060	0.4330
TH	0.7230	0.4280
TI	0.7320	0.4300
TJ	0.7470	0.4070
TK	0.7080	0.4230
TL	0.7120	0.4250
TM	0.6910	0.4030
U	0.7090	0.4710
UB	0.6240	0.3750
UC	0.6590	0.4060
UD	0.6510	0.4040
UE	0.6690	0.4080
UF	0.6890	0.4070

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Chain	Atom inclusion	Q-score
UG	0.6700	0.4130
UH	0.6550	0.4120
UI	0.6520	0.4090
UJ	0.6960	0.3970
UK	0.6610	0.4140
UL	0.6440	0.4110
UM	0.6480	0.4110
UN	0.6020	0.3670
V	0.7140	0.4720
VB	0.6540	0.3950
VC	0.6740	0.4010
VD	0.6960	0.4100
VE	0.6660	0.4020
VF	0.7120	0.4040
VG	0.6670	0.3930
VH	0.6970	0.4090
VI	0.6760	0.3990
VJ	0.7090	0.4010
VK	0.6990	0.4000
VL	0.6910	0.4090
VM	0.6730	0.4010
VN	0.6520	0.3810
W	0.3360	0.2970
WB	0.6400	0.4000
WC	0.6500	0.4100
WD	0.7070	0.4430
WE	0.6740	0.4200
WF	0.7200	0.4290
WG	0.6600	0.4160
WH	0.7030	0.4330
WI	0.6880	0.4370
WJ	0.7260	0.4410
WK	0.6950	0.4300
WL	0.6930	0.4460
WM	0.6920	0.4480
WN	0.6880	0.4360
X	0.7360	0.4710
XG	0.7160	0.4580
XH	0.7320	0.4640
XI	0.7550	0.4710
XJ	0.7260	0.4690
XK	0.7470	0.4610

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Chain	Atom inclusion	Q-score
XL	0.7190	0.4620
XM	0.6850	0.4310
Y	0.7480	0.4790
YG	0.3440	0.3440
YH	0.7100	0.4580
YI	0.7030	0.4560
YJ	0.7020	0.4620
YK	0.7330	0.4530
YL	0.6830	0.4580
Z	0.2870	0.2640
a	0.5960	0.3700
b	0.5480	0.3250
c	0.5580	0.3550
d	0.5790	0.3570
e	0.7240	0.4450
f	0.7250	0.4390
g	0.7280	0.4480
h	0.7560	0.4680
i	0.7960	0.5060
j	0.7780	0.4900
k	0.6100	0.4390
ke	0.6190	0.3730
l	0.4820	0.4050
m	0.6620	0.4450
n	0.6470	0.4240
o	0.6230	0.3880
p	0.3170	0.2640
q	0.2590	0.2190
r	0.7380	0.4750
s	0.7270	0.4590
t	0.7270	0.4510
u	0.3280	0.3160
v	0.3030	0.2880
w	0.2890	0.3140
x	0.3250	0.3020
y	0.5650	0.3790
z	0.5620	0.3880