Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 08:05 AM UTC

PDB ID	:	8IYJ / pdb_00008iyj
EMDB ID	:	EMD-35823
Title	:	Cryo-EM structure of the 48-nm repeat doublet microtubule from mouse sperm
Authors	:	Zhou, L.N.; Gui, M.; Wu, J.P.
Deposited on	:	2023-04-05
Resolution	:	3.50 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:

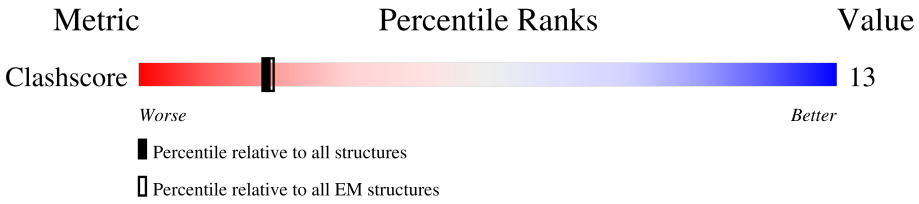
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data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

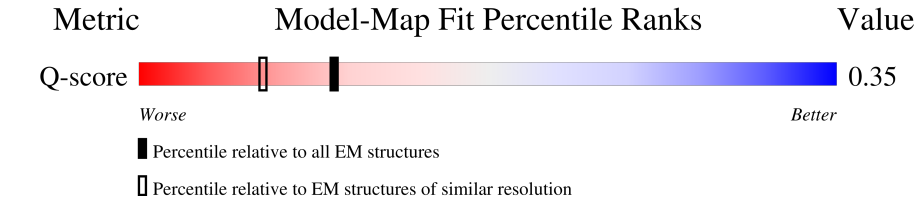
1 Overall quality at a glance

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

The reported resolution of this entry is 3.50 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	13950 (3.00 - 4.00)

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	228	21% 15% 64%
1	7	228	42% 20% 38%
2	1	853	41% 13% 46%
2	2	853	22% 10% 68%
3	3	514	65% 27% 8%
3	4	514	20% 9% 71%

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Mol	Chain	Length	Quality of chain
4	5	395	68% 27% 5%
4	6	395	71% 24% 5%
4	j1	395	61% 34% 5%
5	8	196	64% 25% 10%
6	A	101	5% 67% 26% 7%
6	N1	101	61% 31% 7%
7	A0	418	8% 5% 87%
7	A1	418	67% 18% 14%
7	A2	418	78% 18%
7	A3	418	80% 16%
7	A4	418	82% 13% 5%
7	A5	418	30% 11% 60%
8	AA	450	73% 25%
8	AC	450	73% 24%
8	AE	450	69% 28%
8	AG	450	73% 25%
8	AI	450	75% 23%
8	AK	450	71% 27%
8	AM	450	71% 26%
8	AO	450	68% 30%
8	BC	450	70% 26%
8	BE	450	68% 30%
8	BG	450	74% 23%
8	BI	450	76% 22%
8	BK	450	71% 25%

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Mol	Chain	Length	Quality of chain
8	BM	450	71% 27%
8	BO	450	70% 26%
8	CC	450	70% 27%
8	CE	450	72% 25%
8	CG	450	71% 26%
8	CI	450	75% 22%
8	CK	450	75% 22%
8	CM	450	66% 31%
8	CO	450	70% 28%
8	CQ	450	8% 71% 26%
8	DC	450	64% 32%
8	DE	450	73% 22%
8	DG	450	73% 22%
8	DI	450	71% 25%
8	DK	450	72% 24%
8	DM	450	72% 24%
8	DO	450	73% 23%
8	DQ	450	5% 71% 24% 5%
8	EA	450	74% 23%
8	EC	450	71% 26%
8	EE	450	74% 23%
8	EG	450	74% 23%
8	EI	450	72% 25%
8	EK	450	75% 22%
8	EM	450	72% 26%

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Mol	Chain	Length	Quality of chain
8	EO	450	5% 70% 27%
8	FA	450	62% 33%
8	FC	450	70% 26%
8	FE	450	68% 28%
8	FG	450	70% 25% 5%
8	FI	450	67% 29%
8	FK	450	68% 28%
8	FM	450	68% 27%
8	FO	450	66% 29% 5%
8	GA	450	68% 27%
8	GC	450	65% 30%
8	GE	450	64% 32%
8	GG	450	61% 37%
8	GI	450	66% 30%
8	GK	450	67% 29%
8	GM	450	62% 35%
8	GO	450	70% 26%
8	HA	450	67% 28%
8	HC	450	60% 36%
8	HE	450	69% 28%
8	HG	450	66% 31%
8	HI	450	70% 27%
8	HK	450	65% 30%
8	HM	450	63% 33%
8	HO	450	63% 33%

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Mol	Chain	Length	Quality of chain
8	IA	450	62% 34%
8	IC	450	63% 35%
8	IE	450	62% 36%
8	IG	450	59% 37%
8	II	450	67% 30%
8	IK	450	59% 38%
8	IM	450	65% 30%
8	IO	450	60% 37%
8	JC	450	64% 33%
8	JE	450	64% 33%
8	JG	450	70% 25% 5%
8	JI	450	65% 31%
8	JK	450	67% 29%
8	JM	450	66% 29%
8	JO	450	61% 35%
8	JQ	450	67% 30%
8	KA	450	67% 29%
8	KC	450	69% 27%
8	KE	450	65% 31%
8	KG	450	68% 27%
8	KI	450	67% 29%
8	KK	450	68% 28%
8	KM	450	65% 31%
8	KO	450	68% 29%
8	LA	450	67% 29%

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Mol	Chain	Length	Quality of chain
8	LC	450	71% 25%
8	LE	450	73% 23%
8	LG	450	74% 24%
8	LI	450	77% 21%
8	LK	450	71% 27%
8	LM	450	70% 27%
8	LO	450	65% 30%
8	MA	450	74% 22%
8	MC	450	76% 20%
8	ME	450	76% 22%
8	MG	450	67% 29%
8	MI	450	70% 26%
8	MK	450	70% 26%
8	MM	450	70% 26%
8	MO	450	64% 31% 5%
8	NA	450	5% 66% 29% 5%
8	NC	450	6% 66% 29% 5%
8	NE	450	66% 30%
8	NG	450	62% 34%
8	NI	450	66% 29%
8	NK	450	58% 37%
8	NM	450	58% 38%
8	NO	450	64% 32%
8	OA	450	19% 68% 28%
8	OC	450	6% 64% 31%

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Mol	Chain	Length	Quality of chain
8	OE	450	67% 29%
8	OG	450	67% 28%
8	OI	450	67% 28% 5%
8	OK	450	63% 33%
8	OM	450	66% 29% 5%
8	OO	450	5% 62% 32% 6%
8	PC	450	65% 30% 5%
8	PE	450	68% 27% 6%
8	PG	450	68% 27%
8	PI	450	63% 32%
8	PK	450	63% 32%
8	PM	450	65% 31%
8	PO	450	5% 69% 27%
8	QC	450	8% 68% 28% 5%
8	QE	450	68% 28%
8	QG	450	5% 68% 28% 5%
8	QI	450	64% 31% 5%
8	QK	450	69% 26% 5%
8	QM	450	61% 33% 5%
8	QO	450	5% 67% 28% 5%
8	RC	450	69% 26% 5%
8	RE	450	68% 27% 5%
8	RG	450	64% 31% 5%
8	RI	450	68% 27% 5%
8	RK	450	67% 28%

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Mol	Chain	Length	Quality of chain
8	RM	450	65% 30% 5%
8	RO	450	66% 28% 5%
8	SA	450	9% 69% 26% 5%
8	SC	450	65% 30% 5%
8	SE	450	64% 31% 5%
8	SG	450	65% 30% 5%
8	SI	450	66% 29% 5%
8	SK	450	67% 28% 5%
8	SM	450	66% 28% 6%
8	TA	450	8% 67% 28% 5%
8	TC	450	61% 34% 5%
8	TE	450	66% 29% 5%
8	TG	450	68% 27% 5%
8	TI	450	66% 29% 5%
8	TK	450	69% 26% 5%
8	TM	450	64% 31% 5%
8	UA	450	7% 64% 30% 6%
8	UC	450	66% 29% 5%
8	UE	450	63% 32% 5%
8	UG	450	72% 23% 5%
8	UI	450	70% 25% 5%
8	UK	450	68% 27% 5%
8	UM	450	8% 66% 29% 5%
8	UO	450	23% 64% 31% 5%
8	VA	450	8% 70% 25% 5%

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Mol	Chain	Length	Quality of chain
8	VC	450	74% 24%
8	VE	450	68% 27% 5%
8	VG	450	63% 34%
8	VI	450	62% 33% 5%
8	VK	450	67% 30%
8	VM	450	66% 29% 5%
8	VO	450	7% 68% 28%
8	WA	450	6% 68% 29%
8	WC	450	73% 24%
8	WE	450	68% 28%
8	WG	450	72% 26%
8	WI	450	72% 25%
8	WK	450	70% 27%
8	WM	450	71% 24%
8	WO	450	68% 27% 5%
9	AB	445	71% 26%
9	AD	445	69% 28%
9	AF	445	68% 28%
9	AH	445	75% 23%
9	AJ	445	73% 24%
9	AL	445	68% 29%
9	AN	445	68% 29%
9	AP	445	70% 27%
9	BB	445	71% 25%
9	BD	445	75% 21%

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Mol	Chain	Length	Quality of chain
9	BF	445	71% 25%
9	BH	445	72% 24%
9	BJ	445	72% 25%
9	BL	445	67% 29%
9	BN	445	73% 24%
9	BP	445	70% 27%
9	CB	445	68% 28%
9	CD	445	70% 27%
9	CF	445	75% 22%
9	CH	445	76% 20%
9	CJ	445	77% 19%
9	CL	445	68% 28%
9	CN	445	68% 29%
9	CP	445	72% 24%
9	DB	445	9% 69% 27%
9	DD	445	72% 24%
9	DF	445	74% 22%
9	DH	445	74% 22%
9	DJ	445	77% 20%
9	DL	445	74% 23%
9	DN	445	76% 20%
9	DP	445	75% 22%
9	EB	445	69% 27%
9	ED	445	72% 24%
9	EF	445	71% 25%

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Mol	Chain	Length	Quality of chain
9	EH	445	71% 25%
9	EJ	445	74% 22%
9	EL	445	71% 26%
9	EN	445	69% 27%
9	FB	445	68% 28%
9	FD	445	74% 22%
9	FF	445	73% 23%
9	FH	445	71% 26%
9	FJ	445	71% 26%
9	FL	445	70% 26%
9	FN	445	65% 32%
9	GB	445	63% 32%
9	GD	445	66% 31%
9	GF	445	67% 29%
9	GH	445	66% 30%
9	GJ	445	70% 27%
9	GL	445	65% 32%
9	GN	445	70% 27%
9	HB	445	63% 33%
9	HD	445	58% 38%
9	HF	445	70% 26%
9	HH	445	67% 29%
9	HJ	445	61% 36%
9	HL	445	61% 36%
9	HN	445	68% 28%

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Mol	Chain	Length	Quality of chain
9	HP	445	68% 28%
9	IB	445	61% 36%
9	ID	445	62% 34%
9	IF	445	63% 33%
9	IH	445	62% 34%
9	IJ	445	64% 32%
9	IL	445	62% 35%
9	IN	445	62% 35%
9	IP	445	63% 33%
9	JB	445	5% 67% 29%
9	JD	445	64% 32%
9	JF	445	63% 32%
9	JH	445	65% 31%
9	JJ	445	63% 33%
9	JL	445	64% 32%
9	JN	445	66% 30%
9	JP	445	68% 28%
9	KB	445	67% 29%
9	KD	445	65% 32%
9	KF	445	73% 24%
9	KH	445	62% 35%
9	KJ	445	70% 27%
9	KL	445	66% 30%
9	KN	445	62% 34%
9	KP	445	65% 31%

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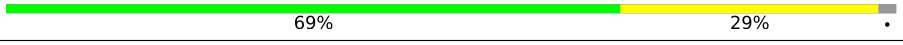
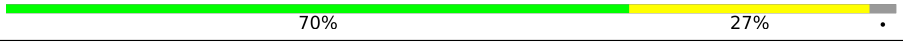
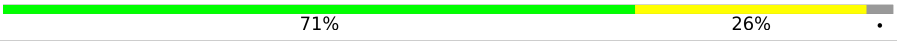
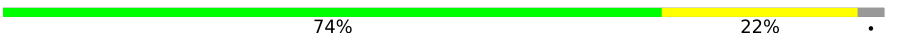
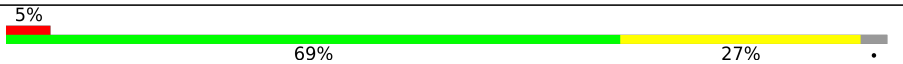
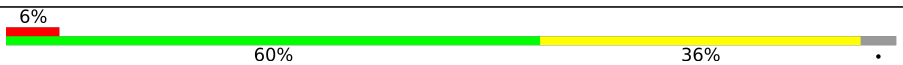
Mol	Chain	Length	Quality of chain
9	LB	445	
9	LD	445	
9	LF	445	
9	LH	445	
9	LJ	445	
9	LL	445	
9	LN	445	
9	LP	445	
9	MB	445	
9	MD	445	
9	MF	445	
9	MH	445	
9	MJ	445	
9	ML	445	
9	MN	445	
9	MP	445	
9	NB	445	
9	ND	445	
9	NF	445	
9	NH	445	
9	NJ	445	
9	NL	445	
9	NN	445	
9	NP	445	
9	OB	445	

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Mol	Chain	Length	Quality of chain
9	OD	445	61% 35%
9	OF	445	64% 32%
9	OH	445	64% 32%
9	OJ	445	60% 36%
9	OL	445	60% 35%
9	ON	445	64% 32%
9	OP	445	9% 62% 33%
9	PB	445	5% 72% 24%
9	PD	445	64% 32%
9	PF	445	68% 28%
9	PH	445	69% 27%
9	PJ	445	64% 32%
9	PL	445	68% 29%
9	PN	445	70% 26%
9	PP	445	6% 72% 24%
9	QB	445	18% 67% 28%
9	QD	445	5% 68% 28%
9	QF	445	67% 28%
9	QH	445	62% 34%
9	QJ	445	64% 31%
9	QL	445	69% 27%
9	QN	445	5% 66% 29%
9	QP	445	14% 68% 28%
9	RD	445	67% 29%
9	RF	445	71% 25%

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Mol	Chain	Length	Quality of chain
9	RH	445	67% 29%
9	RJ	445	66% 30%
9	RL	445	68% 28%
9	RN	445	72% 24%
9	RP	445	10% 75% 22%
9	SB	445	68% 28%
9	SD	445	68% 28%
9	SF	445	63% 33%
9	SH	445	64% 31%
9	SJ	445	62% 34%
9	SL	445	66% 30%
9	SN	445	9% 66% 30%
9	TB	445	66% 29%
9	TD	445	68% 28%
9	TF	445	67% 29%
9	TH	445	64% 32%
9	TJ	445	63% 33%
9	TL	445	67% 28%
9	TN	445	5% 67% 28%
9	UB	445	66% 29%
9	UD	445	68% 28%
9	UF	445	69% 27%
9	UH	445	67% 29%
9	UJ	445	69% 27%
9	UL	445	6% 65% 30%

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Mol	Chain	Length	Quality of chain
9	UN	445	10% 67% 29%
9	VB	445	67% 28%
9	VD	445	73% 23%
9	VF	445	67% 29%
9	VH	445	61% 35%
9	VJ	445	67% 28%
9	VL	445	69% 27%
9	VN	445	65% 31%
9	WB	445	69% 27%
9	WD	445	72% 24%
9	WF	445	72% 24%
9	WH	445	71% 25%
9	WJ	445	72% 24%
9	WL	445	72% 24%
9	WN	445	68% 28%
9	WP	445	6% 69% 27%
10	B	491	49% 15% 35%
10	C	491	39% 18% 43%
11	B0	430	6% 91%
11	B1	430	65% 19% 15%
11	B2	430	77% 20%
11	B3	430	74% 22%
11	B4	430	75% 21%
11	B5	430	30% 17% 53%
11	R0	430	30% 16% 54%

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Mol	Chain	Length	Quality of chain
11	R1	430	70% 26%
11	R2	430	76% 20%
11	R3	430	72% 24%
11	R4	430	59% 26% 14%
11	R5	430	7% 90%
12	C0	490	29% 8% 63%
12	C1	490	62% 21% 16%
12	C2	490	70% 14% 16%
12	C3	490	68% 15% 17%
12	C4	490	59% 15% 26%
12	C5	490	6% 90%
12	C6	490	6% 91%
12	S0	490	48% 18% 34%
12	S1	490	69% 21% 10%
12	S2	490	70% 20% 10%
12	S3	490	66% 24% 10%
12	S4	490	42% 19% 38%
12	S5	490	49% 15% 36%
12	S6	490	65% 21% 14%
12	S7	490	68% 18% 14%
12	S8	490	61% 24% 14%
12	S9	490	33% 23% 44%
13	D	470	14% 84%
13	K3	470	29% 9% 62%
14	D0	447	19% 6% 76%

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Mol	Chain	Length	Quality of chain
14	D1	447	74% 18% 8%
14	D2	447	77% 18% 5%
14	D3	447	73% 22% 5%
14	D4	447	73% 21% 5%
14	D5	447	11% 7% 81%
14	T0	447	18% 8% 73%
14	T1	447	68% 31%
14	T2	447	70% 28%
14	T3	447	79% 20%
14	T4	447	66% 23% 12%
14	T5	447	13% 13% 73%
15	E	303	73% 25%
15	F	303	13% 75% 23%
15	N2	303	74% 24%
16	G	122	9% 55% 20% 25%
17	H	319	37% 14% 49%
17	I	319	39% 16% 45%
17	J	319	41% 9% 50%
17	K	319	44% 11% 45%
17	L	319	37% 14% 49%
17	M	319	41% 13% 46%
17	N	319	37% 14% 49%
17	O7	319	35% 19% 46%
17	O8	319	21% 11% 68%
17	O9	319	24% 8% 68%

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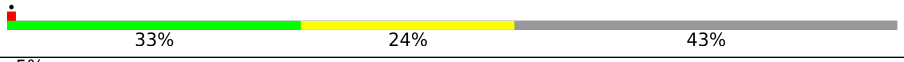
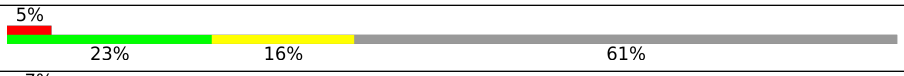
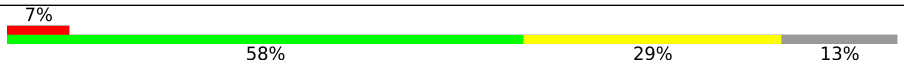
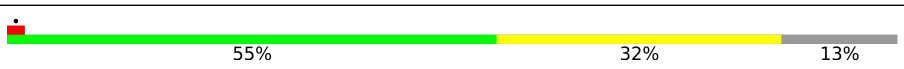
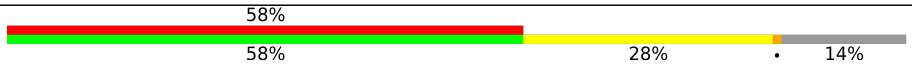
Mol	Chain	Length	Quality of chain
17	P8	319	
17	P9	319	
17	Z2	319	
17	Z3	319	
17	Z4	319	
17	Z5	319	
18	I1	166	
19	J1	283	
19	J2	283	
19	J3	283	
19	J4	283	
19	J5	283	
20	K1	137	
20	K2	137	
21	L1	182	
22	M1	200	
22	M2	200	
22	M3	200	
22	M4	200	
23	O	379	
23	P	379	
23	Q	379	
24	O1	189	
24	O2	189	
24	O3	189	

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Mol	Chain	Length	Quality of chain
24	O4	189	68% 21% 12%
25	O5	648	56% 20% 24%
25	O6	648	93%
25	T	648	28% 15% 57%
25	U	648	52% 25% 22%
25	V	648	56% 24% 19%
26	P1	131	39% 19% 42%
26	P2	131	38% 37% 25%
27	P3	180	7% 45% 29% 25%
27	P4	180	64% 22% 14%
27	P5	180	61% 25% 14%
27	P6	180	58% 27% 14%
27	P7	180	6% 23% 7% 71%
28	Q1	206	72% 23%
28	Q2	206	68% 28%
28	Q3	206	73% 22%
28	Q4	206	7% 67% 29%
28	Q5	206	5% 91%
29	R	377	38% 13% 48%
29	S	377	67% 19% 14%
30	U0	557	49% 15% 36%
30	U1	557	57% 17% 25%
30	U2	557	60% 14% 25%
30	U3	557	59% 15% 25%
30	U4	557	28% 8% 64%

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Mol	Chain	Length	Quality of chain
30	U5	557	8% 40% 17% 43%
30	U6	557	5% 55% 18% 26%
30	U7	557	55% 18% 26%
30	U8	557	8% 53% 20% 26%
30	U9	557	6% 22% 10% 67%
30	V0	557	26% 25% 12% 63%
30	V1	557	12% 48% 21% 30%
30	V2	557	50% 19% 30%
30	V3	557	11% 48% 21% 30%
30	V4	557	11% 36% 15% 49%
30	V5	557	37% 16% 47%
30	V6	557	50% 15% 35%
30	V7	557	38% 22% 40%
30	V8	557	41% 13% 46%
30	V9	557	12% 5% 82%
30	W0	557	35% 31% 22% 46%
30	W2	557	8% 38% 16% 46%
30	W4	557	47% 11% 42%
30	W5	557	44% 14% 42%
30	W6	557	50% 8% 42%
30	W7	557	44% 14% 42%
31	W	750	74% 25%
31	X	750	78% 21%
31	Y	750	74% 24%
31	Z	750	77% 21%

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Mol	Chain	Length	Quality of chain
32	X0	260	7% 90%
32	X1	260	7% 91%
32	X2	260	7% 91%
32	X3	260	7% 90%
33	X4	427	57% 19% 23%
33	X5	427	23% 8% 69%
34	X6	273	5% 63% 35%
34	X7	273	39% 68% 29%
34	X8	273	48% 63% 35%
35	XA	193	9% 68% 27%
35	XB	193	59% 37%
35	XC	193	64% 32%
35	XD	193	64% 32%
35	XE	193	69% 26%
35	XF	193	61% 34%
35	XG	193	66% 30%
35	XH	193	59% 37%
36	Y0	254	14% 11% 75%
36	Y1	254	56% 37% 6%
36	Y2	254	60% 28% 11%
36	Y3	254	6% 15% 9% 75%
36	Y4	254	9% 45% 27% 27%
36	Y5	254	6% 20% 13% 67%
37	YA	241	10% 69% 22% 9%
37	YB	241	71% 20% 9%

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Mol	Chain	Length	Quality of chain
37	YC	241	11% 75% 16% 9%
37	YD	241	75% 16% 9%
37	YE	241	74% 17% 9%
37	YF	241	76% 15% 9%
37	YG	241	72% 20% 9%
37	YH	241	67% 24% 9%
38	Z1	216	9% 6% 85%
39	a	551	11% 32% 21% 47%
39	a6	551	8% 87%
39	b	551	16% 26% 18% 56%
39	c	551	17% 47% 28% 25%
39	d	551	8% 14% 10% 75%
40	a1	229	51% 17% 32%
40	a2	229	45% 23% 32%
40	a3	229	45% 23% 32%
40	a4	229	42% 25% 32%
41	b1	499	17% 10% 74%
41	b2	499	57% 19% 24%
41	b3	499	58% 19% 23%
41	b4	499	53% 23% 23%
41	b5	499	49% 18% 33%
42	e	620	64% 34%
42	f	620	63% 34%
42	g	620	66% 32%
43	h	255	78% 19%

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Mol	Chain	Length	Quality of chain
43	i	255	72% 24%
43	j	255	73% 23%
43	k	255	65% 31%
44	h1	141	45% 24% 31%
44	h2	141	43% 27% 30%
44	h3	141	44% 26% 30%
44	h4	141	43% 27% 30%
45	i1	189	44% 17% 39%
45	l	189	43% 19% 39%
45	m	189	44% 17% 39%
45	n	189	42% 20% 39%
46	i2	1516	7% 88%
46	i3	1516	7% 88%
46	i4	1516	7% 88%
47	o	547	16% 24% 12% 64%
47	p	547	21% 51% 21% 28%
48	q	168	33% 11% 55%
48	r	168	36% 10% 54%
48	s	168	29% 17% 54%
49	y	167	42% 24% 34%

2 Entry composition

There are 52 unique types of molecules in this entry. The entry contains 1650085 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	81	Total	C	N	O	S	0	0
			670	422	120	123	5		
1	7	141	Total	C	N	O	S	0	0
			1174	741	210	217	6		

- Molecule 2 is a protein called EF-hand domain-containing family member B.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1	462	Total	C	N	O	S	0	0
			3738	2356	672	700	10		
2	2	270	Total	C	N	O	S	0	0
			2160	1381	385	386	8		

- Molecule 3 is a protein called Cilia- and flagella-associated protein 53.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	3	475	Total	C	N	O	S	0	0
			4023	2453	784	770	16		
3	4	148	Total	C	N	O	S	0	0
			1230	747	241	235	7		

- Molecule 4 is a protein called Nucleoside diphosphate kinase 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	5	376	Total	C	N	O	S	0	0
			2975	1885	517	553	20		
4	6	376	Total	C	N	O	S	0	0
			2975	1885	517	553	20		
4	j1	376	Total	C	N	O	S	0	0
			2975	1885	517	553	20		

- Molecule 5 is a protein called Cilia- and flagella-associated protein 107.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	8	176	Total	C	N	O	S	0	0
			1470	949	257	259	5		

- Molecule 6 is a protein called Cilia- and flagella-associated protein 141.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	A	94	Total	C	N	O	S	0	0
			806	507	150	145	4		
6	N1	94	Total	C	N	O	S	0	0
			806	507	150	145	4		

- Molecule 7 is a protein called Tektin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	A0	54	Total	C	N	O	S	0	0
			444	271	89	83	1		
7	A1	359	Total	C	N	O	S	0	0
			2935	1818	527	580	10		
7	A2	401	Total	C	N	O	S	0	0
			3288	2038	595	645	10		
7	A3	401	Total	C	N	O	S	0	0
			3288	2038	595	645	10		
7	A4	399	Total	C	N	O	S	0	0
			3274	2029	592	643	10		
7	A5	169	Total	C	N	O	S	0	0
			1400	868	252	279	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AA	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	AC	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	AE	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	AG	441	Total	C	N	O	S	0	0
			3440	2179	584	655	22		
8	AI	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	AK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	AM	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	AO	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	BC	431	Total	C	N	O	S	0	0
			3374	2140	573	639	22		
8	BE	441	Total	C	N	O	S	0	0
			3440	2179	584	655	22		
8	BG	434	Total	C	N	O	S	0	0
			3396	2153	576	645	22		
8	BI	441	Total	C	N	O	S	0	0
			3440	2179	584	655	22		
8	BK	433	Total	C	N	O	S	0	0
			3390	2150	575	643	22		
8	BM	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	BO	434	Total	C	N	O	S	0	0
			3396	2153	576	645	22		
8	CC	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	CE	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	CG	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	CI	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	CK	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	CM	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	CO	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	CQ	437	Total	C	N	O	S	0	0
			3410	2162	580	646	22		
8	DC	432	Total	C	N	O	S	0	0
			3382	2146	574	640	22		
8	DE	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	DG	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	DI	431	Total	C	N	O	S	0	0
			3374	2142	573	637	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	DK	431	Total	C	N	O	S	0	0
			3373	2141	573	637	22		
8	DM	432	Total	C	N	O	S	0	0
			3380	2143	574	641	22		
8	DO	431	Total	C	N	O	S	0	0
			3372	2139	573	638	22		
8	DQ	429	Total	C	N	O	S	0	0
			3360	2133	571	634	22		
8	EA	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	EC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
8	EE	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	EG	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	EI	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	EK	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	EM	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	EO	437	Total	C	N	O	S	0	0
			3410	2162	580	646	22		
8	FA	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	FC	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	FE	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	FG	428	Total	C	N	O	S	0	0
			3351	2127	570	632	22		
8	FI	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	FK	431	Total	C	N	O	S	0	0
			3373	2141	573	637	22		
8	FM	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	FO	428	Total	C	N	O	S	0	0
			3355	2129	570	634	22		
8	GA	430	Total	C	N	O	S	0	0
			3368	2137	572	637	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	GC	431	Total	C	N	O	S	0	0
			3373	2141	573	637	22		
8	GE	431	Total	C	N	O	S	0	0
			3373	2141	573	637	22		
8	GG	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	GI	433	Total	C	N	O	S	0	0
			3387	2148	575	642	22		
8	GK	433	Total	C	N	O	S	0	0
			3387	2148	575	642	22		
8	GM	434	Total	C	N	O	S	0	0
			3395	2152	576	645	22		
8	GO	434	Total	C	N	O	S	0	0
			3395	2152	576	645	22		
8	HA	431	Total	C	N	O	S	0	0
			3371	2140	573	636	22		
8	HC	434	Total	C	N	O	S	0	0
			3389	2149	576	642	22		
8	HE	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	HG	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	HI	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	HK	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	HM	434	Total	C	N	O	S	0	0
			3389	2149	576	642	22		
8	HO	432	Total	C	N	O	S	0	0
			3381	2145	574	640	22		
8	IA	432	Total	C	N	O	S	0	0
			3380	2143	574	641	22		
8	IC	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	IE	441	Total	C	N	O	S	0	0
			3440	2179	584	655	22		
8	IG	433	Total	C	N	O	S	0	0
			3387	2148	575	642	22		
8	II	435	Total	C	N	O	S	0	0
			3399	2154	577	646	22		
8	IK	436	Total	C	N	O	S	0	0
			3411	2162	579	648	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	IM	434	Total	C	N	O	S	0	0
			3391	2150	576	643	22		
8	IO	440	Total	C	N	O	S	0	0
			3431	2174	583	652	22		
8	JC	434	Total	C	N	O	S	0	0
			3388	2147	576	643	22		
8	JE	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	JG	429	Total	C	N	O	S	0	0
			3360	2133	571	634	22		
8	JI	433	Total	C	N	O	S	0	0
			3390	2150	575	643	22		
8	JK	432	Total	C	N	O	S	0	0
			3381	2145	574	640	22		
8	JM	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	JO	432	Total	C	N	O	S	0	0
			3379	2144	574	639	22		
8	JQ	435	Total	C	N	O	S	0	0
			3403	2158	578	645	22		
8	KA	432	Total	C	N	O	S	0	0
			3380	2143	574	641	22		
8	KC	433	Total	C	N	O	S	0	0
			3389	2149	576	642	22		
8	KE	434	Total	C	N	O	S	0	0
			3397	2153	577	645	22		
8	KG	432	Total	C	N	O	S	0	0
			3380	2143	574	641	22		
8	KI	431	Total	C	N	O	S	0	0
			3374	2140	573	639	22		
8	KK	431	Total	C	N	O	S	0	0
			3372	2139	573	638	22		
8	KM	432	Total	C	N	O	S	0	0
			3380	2143	574	641	22		
8	KO	433	Total	C	N	O	S	0	0
			3389	2149	576	642	22		
8	LA	434	Total	C	N	O	S	0	0
			3396	2153	576	645	22		
8	LC	431	Total	C	N	O	S	0	0
			3374	2140	573	639	22		
8	LE	433	Total	C	N	O	S	0	0
			3388	2149	575	642	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	LG	441	Total	C	N	O	S	0	0
			3440	2179	584	655	22		
8	LI	441	Total	C	N	O	S	0	0
			3440	2179	584	655	22		
8	LK	441	Total	C	N	O	S	0	0
			3440	2179	584	655	22		
8	LM	435	Total	C	N	O	S	0	0
			3404	2157	577	648	22		
8	LO	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	MA	431	Total	C	N	O	S	0	0
			3374	2140	573	639	22		
8	MC	431	Total	C	N	O	S	0	0
			3374	2140	573	639	22		
8	ME	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	MG	432	Total	C	N	O	S	0	0
			3380	2143	574	641	22		
8	MI	432	Total	C	N	O	S	0	0
			3378	2142	574	640	22		
8	MK	433	Total	C	N	O	S	0	0
			3390	2150	575	643	22		
8	MM	432	Total	C	N	O	S	0	0
			3380	2143	574	641	22		
8	MO	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	NA	428	Total	C	N	O	S	0	0
			3353	2128	570	633	22		
8	NC	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	NE	434	Total	C	N	O	S	0	0
			3394	2152	576	644	22		
8	NG	432	Total	C	N	O	S	0	0
			3382	2146	574	640	22		
8	NI	431	Total	C	N	O	S	0	0
			3373	2141	573	637	22		
8	NK	431	Total	C	N	O	S	0	0
			3373	2141	573	637	22		
8	NM	432	Total	C	N	O	S	0	0
			3382	2146	574	640	22		
8	NO	432	Total	C	N	O	S	0	0
			3382	2146	574	640	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	OA	431	Total	C	N	O	S	0	0
			3374	2140	573	639	22		
8	OC	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	OE	431	Total	C	N	O	S	0	0
			3372	2139	573	638	22		
8	OG	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	OI	429	Total	C	N	O	S	0	0
			3360	2133	571	634	22		
8	OK	431	Total	C	N	O	S	0	0
			3374	2140	573	639	22		
8	OM	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	OO	425	Total	C	N	O	S	0	0
			3330	2114	567	628	21		
8	PC	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	PE	425	Total	C	N	O	S	0	0
			3330	2115	566	628	21		
8	PG	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	PI	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	PK	430	Total	C	N	O	S	0	0
			3367	2135	572	638	22		
8	PM	432	Total	C	N	O	S	0	0
			3380	2143	574	641	22		
8	PO	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	QC	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	QE	430	Total	C	N	O	S	0	0
			3366	2136	572	636	22		
8	QG	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	QI	427	Total	C	N	O	S	0	0
			3345	2124	569	630	22		
8	QK	427	Total	C	N	O	S	0	0
			3345	2124	569	630	22		
8	QM	426	Total	C	N	O	S	0	0
			3338	2119	568	629	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	QO	427	Total	C	N	O	S	0	0
			3345	2124	569	630	22		
8	RC	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	RE	428	Total	C	N	O	S	0	0
			3353	2128	570	633	22		
8	RG	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	RI	429	Total	C	N	O	S	0	0
			3360	2133	571	634	22		
8	RK	430	Total	C	N	O	S	0	0
			3368	2137	572	637	22		
8	RM	429	Total	C	N	O	S	0	0
			3361	2132	571	636	22		
8	RO	428	Total	C	N	O	S	0	0
			3353	2128	570	633	22		
8	SA	429	Total	C	N	O	S	0	0
			3359	2131	571	635	22		
8	SC	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	SE	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	SG	427	Total	C	N	O	S	0	0
			3345	2124	569	630	22		
8	SI	429	Total	C	N	O	S	0	0
			3360	2133	571	634	22		
8	SK	427	Total	C	N	O	S	0	0
			3345	2124	569	630	22		
8	SM	425	Total	C	N	O	S	0	0
			3333	2118	567	626	22		
8	TA	426	Total	C	N	O	S	0	0
			3342	2121	568	631	22		
8	TC	426	Total	C	N	O	S	0	0
			3337	2120	568	627	22		
8	TE	429	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
8	TG	426	Total	C	N	O	S	0	0
			3341	2122	568	629	22		
8	TI	427	Total	C	N	O	S	0	0
			3349	2126	569	632	22		
8	TK	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	TM	426	Total	C	N	O	S	0	0
			3341	2122	568	629	22		
8	UA	424	Total	C	N	O	S	0	0
			3327	2112	566	627	22		
8	UC	428	Total	C	N	O	S	0	0
			3351	2127	570	632	22		
8	UE	428	Total	C	N	O	S	0	0
			3351	2127	570	632	22		
8	UG	428	Total	C	N	O	S	0	0
			3353	2128	570	633	22		
8	UI	428	Total	C	N	O	S	0	0
			3352	2129	570	631	22		
8	UK	428	Total	C	N	O	S	0	0
			3353	2128	570	633	22		
8	UM	429	Total	C	N	O	S	0	0
			3359	2131	571	635	22		
8	UO	427	Total	C	N	O	S	0	0
			3347	2125	569	631	22		
8	VA	427	Total	C	N	O	S	0	0
			3345	2124	569	630	22		
8	VC	437	Total	C	N	O	S	0	0
			3410	2162	580	646	22		
8	VE	429	Total	C	N	O	S	0	0
			3358	2132	571	633	22		
8	VG	437	Total	C	N	O	S	0	0
			3410	2162	580	646	22		
8	VI	429	Total	C	N	O	S	0	0
			3360	2133	571	634	22		
8	VK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
8	VM	429	Total	C	N	O	S	0	0
			3359	2131	571	635	22		
8	VO	436	Total	C	N	O	S	0	0
			3403	2157	579	645	22		
8	WA	436	Total	C	N	O	S	0	0
			3403	2157	579	645	22		
8	WC	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	WE	433	Total	C	N	O	S	0	0
			3382	2144	575	641	22		
8	WG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	WI	439	Total	C	N	O	S	0	0
			3424	2169	582	651	22		
8	WK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
8	WM	431	Total	C	N	O	S	0	0
			3374	2140	573	639	22		
8	WO	429	Total	C	N	O	S	0	0
			3358	2132	571	633	22		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
9	AB	432	Total	C	N	O	S	0	0
			3391	2129	580	656	26		
9	AD	435	Total	C	N	O	S	0	0
			3413	2141	583	663	26		
9	AF	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	AH	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
9	AJ	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
9	AL	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
9	AN	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
9	AP	432	Total	C	N	O	S	0	0
			3391	2129	580	656	26		
9	BB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	BD	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	BF	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	BH	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	BJ	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	BL	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	BN	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	BP	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	CB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	CD	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	CF	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	CH	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	CJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	CL	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	CN	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	CP	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	DB	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	DD	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	DF	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	DH	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	DJ	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	DL	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	DN	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	DP	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	EB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	ED	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	EF	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	EH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	EJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	EL	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	EN	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	FB	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	FD	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	FF	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	FH	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	FJ	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	FL	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	FN	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	GB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	GD	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	GF	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	GH	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	GJ	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	GL	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	GN	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	HB	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	HD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	HF	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	HH	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	HJ	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	HL	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	HN	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	HP	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	IB	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	ID	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	IF	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	IH	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	IJ	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	IL	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	IN	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	IP	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	JB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	JD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	JF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	JH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	JJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	JL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	JN	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	JP	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	KB	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	KD	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	KF	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	KH	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	KJ	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	KL	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	KN	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	KP	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	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	LF	439	Total	C	N	O	S	0	0
			3451	2165	587	673	26		
9	LH	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	LJ	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
9	LL	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	LN	432	Total	C	N	O	S	0	0
			3391	2129	580	656	26		
9	LP	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	MB	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	MD	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	MF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	MH	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	MJ	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	ML	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	MN	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	MP	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	NB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	ND	431	Total	C	N	O	S	0	0
			3382	2124	579	653	26		
9	NF	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	NH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	NJ	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	NL	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	NN	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	NP	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	OB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	OD	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	OF	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	OH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	OJ	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
9	OL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	ON	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	OP	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	PB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	PD	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	PF	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	PH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	PJ	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	PL	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	PN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	PP	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	QB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	QD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	QF	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	QH	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	QJ	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	QL	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	QN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	QP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
9	RD	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	RF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	RH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	RJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	RL	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	RN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
9	RP	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
9	SB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	SD	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	SF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	SH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	SJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	SL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	SN	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	TB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	TD	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	TF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	TH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	TJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	TL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	TN	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	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	UF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	UH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	UJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	UL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	UN	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	VB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	VD	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	VF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	VH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	VJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	VL	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	VN	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
9	WB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	WD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	WF	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
9	WH	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	WJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
9	WL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	WN	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
9	WP	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

- Molecule 10 is a protein called Meiosis-specific nuclear structural protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	B	319	Total	C	N	O	S	0	0
			2769	1697	520	539	13		
10	C	279	Total	C	N	O	S	0	0
			2408	1493	445	459	11		

- Molecule 11 is a protein called Tektin-2.

Mol	Chain	Residues	Atoms				AltConf	Trace
11	B0	39	Total	C	N	O	0	0
			334	203	66	65		

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Mol	Chain	Residues	Atoms	AltConf	Trace
11	B1	364	Total C N O S 2984 1840 547 586 11	0	0
11	B2	414	Total C N O S 3401 2093 627 667 14	0	0
11	B3	414	Total C N O S 3401 2093 627 667 14	0	0
11	B4	415	Total C N O S 3412 2099 631 668 14	0	0
11	B5	203	Total C N O S 1675 1036 305 325 9	0	0
11	R0	196	Total C N O S 1612 996 294 313 9	0	0
11	R1	415	Total C N O S 3412 2099 631 668 14	0	0
11	R2	415	Total C N O S 3412 2099 631 668 14	0	0
11	R3	415	Total C N O S 3412 2099 631 668 14	0	0
11	R4	369	Total C N O S 3025 1864 555 595 11	0	0
11	R5	43	Total C N O 366 224 73 69	0	0

- Molecule 12 is a protein called Tektin-3.

Mol	Chain	Residues	Atoms	AltConf	Trace
12	C0	179	Total C N O S 1453 887 270 293 3	0	0
12	C1	411	Total C N O S 3354 2064 616 658 16	0	0
12	C2	411	Total C N O S 3354 2064 616 658 16	0	0
12	C3	408	Total C N O S 3332 2050 613 654 15	0	0
12	C4	363	Total C N O S 2944 1810 539 580 15	0	0
12	C5	51	Total C N O S 420 259 78 81 2	0	0
12	C6	42	Total C N O S 354 220 69 63 2	0	0
12	S0	325	Total C N O S 2675 1642 499 521 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
12	S1	441	Total	C	N	O	S	0	0
			3613	2223	669	705	16		
12	S2	441	Total	C	N	O	S	0	0
			3613	2223	669	705	16		
12	S3	441	Total	C	N	O	S	0	0
			3613	2223	669	705	16		
12	S4	303	Total	C	N	O	S	0	0
			2459	1515	446	485	13		
12	S5	313	Total	C	N	O	S	0	0
			2568	1581	472	504	11		
12	S6	422	Total	C	N	O	S	0	0
			3453	2130	633	676	14		
12	S7	422	Total	C	N	O	S	0	0
			3453	2130	633	676	14		
12	S8	420	Total	C	N	O	S	0	0
			3435	2117	631	673	14		
12	S9	276	Total	C	N	O	S	0	0
			2232	1370	409	440	13		

- Molecule 13 is a protein called Sperm-associated antigen 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	D	77	Total	C	N	O	S	0	0
			622	393	112	116	1		
13	K3	179	Total	C	N	O	S	0	0
			1460	911	268	274	7		

- Molecule 14 is a protein called Tektin-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	D0	109	Total	C	N	O	S	0	0
			889	545	164	178	2		
14	D1	411	Total	C	N	O	S	0	0
			3370	2070	621	663	16		
14	D2	424	Total	C	N	O	S	0	0
			3480	2133	647	683	17		
14	D3	424	Total	C	N	O	S	0	0
			3480	2133	647	683	17		
14	D4	424	Total	C	N	O	S	0	0
			3480	2133	647	683	17		
14	D5	87	Total	C	N	O	S	0	0
			715	436	139	138	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
14	T0	119	Total	C	N	O	S	0	0
			957	588	173	193	3		
14	T1	440	Total	C	N	O	S	0	0
			3594	2206	664	706	18		
14	T2	440	Total	C	N	O	S	0	0
			3594	2206	664	706	18		
14	T3	441	Total	C	N	O	S	0	0
			3606	2215	665	708	18		
14	T4	395	Total	C	N	O	S	0	0
			3260	1997	608	639	16		
14	T5	119	Total	C	N	O	S	0	0
			975	600	180	191	4		

- Molecule 15 is a protein called Cilia- and flagella-associated protein 161.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	E	298	Total	C	N	O	S	0	0
			2372	1486	423	446	17		
15	F	297	Total	C	N	O	S	0	0
			2363	1481	421	444	17		
15	N2	297	Total	C	N	O	S	0	0
			2363	1481	421	444	17		

- Molecule 16 is a protein called Piercer of microtubule wall 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	G	91	Total	C	N	O	S	0	0
			724	462	123	134	5		

- Molecule 17 is a protein called Protein FAM166A.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	H	162	Total	C	N	O	S	0	0
			1316	841	234	233	8		
17	I	175	Total	C	N	O	S	0	0
			1429	912	259	250	8		
17	J	161	Total	C	N	O	S	0	0
			1307	835	232	232	8		
17	K	174	Total	C	N	O	S	0	0
			1420	906	257	249	8		
17	L	162	Total	C	N	O	S	0	0
			1316	841	234	233	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
17	M	173	Total	C	N	O	S	0	0
			1413	902	256	247	8		
17	N	162	Total	C	N	O	S	0	0
			1316	841	234	233	8		
17	O7	173	Total	C	N	O	S	0	0
			1413	902	256	247	8		
17	O8	103	Total	C	N	O	S	0	0
			837	539	141	153	4		
17	O9	103	Total	C	N	O	S	0	0
			837	539	141	153	4		
17	P8	103	Total	C	N	O	S	0	0
			837	539	141	153	4		
17	P9	103	Total	C	N	O	S	0	0
			837	539	141	153	4		
17	Z2	51	Total	C	N	O	S	0	0
			412	265	74	69	4		
17	Z3	51	Total	C	N	O	S	0	0
			412	265	74	69	4		
17	Z4	51	Total	C	N	O	S	0	0
			412	265	74	69	4		
17	Z5	50	Total	C	N	O	S	0	0
			405	260	73	68	4		

- Molecule 18 is a protein called Cilia- and flagella-associated protein 68.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	I1	94	Total	C	N	O	S	0	0
			796	503	145	145	3		

- Molecule 19 is a protein called Cilia and flagella-associated protein 77.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	J1	111	Total	C	N	O	S	0	0
			934	596	177	158	3		
19	J2	247	Total	C	N	O	S	0	0
			2010	1269	377	353	11		
19	J3	247	Total	C	N	O	S	0	0
			2010	1269	377	353	11		
19	J4	245	Total	C	N	O	S	0	0
			1992	1259	374	348	11		
19	J5	126	Total	C	N	O	S	0	0
			1001	626	188	180	7		

- Molecule 20 is a protein called Family with sequence similarity 183, member B.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	K1	118	Total	C	N	O	S	0	0
			1009	640	187	181	1		
20	K2	118	Total	C	N	O	S	0	0
			1009	640	187	181	1		

- Molecule 21 is a protein called Cilia- and flagella-associated protein 90.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	L1	126	Total	C	N	O	S	0	0
			1034	652	193	187	2		

- Molecule 22 is a protein called Protein FAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	M1	96	Total	C	N	O		0	0
			826	529	148	149			
22	M2	96	Total	C	N	O		0	0
			826	529	148	149			
22	M3	156	Total	C	N	O	S	0	0
			1280	821	223	233	3		
22	M4	96	Total	C	N	O		0	0
			826	529	148	149			

- Molecule 23 is a protein called RIB43A-like with coiled-coils protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	O	74	Total	C	N	O	S	0	0
			627	386	124	115	2		
23	P	347	Total	C	N	O	S	0	0
			2875	1751	564	549	11		
23	Q	103	Total	C	N	O	S	0	0
			858	522	165	169	2		

- Molecule 24 is a protein called Dual specificity phosphatase 21.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	O1	166	Total	C	N	O	S	0	0
			1332	856	225	244	7		
24	O2	167	Total	C	N	O	S	0	0
			1344	865	226	246	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
24	O3	167	Total	C	N	O	S	0	0
			1344	865	226	246	7		
24	O4	167	Total	C	N	O	S	0	0
			1344	865	226	246	7		

- Molecule 25 is a protein called EF-hand domain-containing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	O5	491	Total	C	N	O	S	0	0
			4047	2608	682	740	17		
25	O6	48	Total	C	N	O	S	0	0
			383	240	73	69	1		
25	T	280	Total	C	N	O	S	0	0
			2365	1525	396	433	11		
25	U	503	Total	C	N	O	S	0	0
			4138	2671	694	756	17		
25	V	524	Total	C	N	O	S	0	0
			4299	2773	720	789	17		

- Molecule 26 is a protein called Testis expressed 49.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	P1	76	Total	C	N	O	S	0	0
			637	409	117	109	2		
26	P2	98	Total	C	N	O	S	0	0
			825	531	152	140	2		

- Molecule 27 is a protein called Testis-expressed sequence 37 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	P3	135	Total	C	N	O	S	0	0
			1103	719	187	190	7		
27	P4	155	Total	C	N	O	S	0	0
			1272	829	211	224	8		
27	P5	155	Total	C	N	O	S	0	0
			1272	829	211	224	8		
27	P6	154	Total	C	N	O	S	0	0
			1263	824	210	221	8		
27	P7	53	Total	C	N	O	S	0	0
			447	293	70	82	2		

- Molecule 28 is a protein called Tektin bundle-interacting protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	Q1	199	Total	C	N	O	S	0	0
			1634	1046	305	277	6		
28	Q2	199	Total	C	N	O	S	0	0
			1634	1046	305	277	6		
28	Q3	199	Total	C	N	O	S	0	0
			1634	1046	305	277	6		
28	Q4	199	Total	C	N	O	S	0	0
			1634	1046	305	277	6		
28	Q5	18	Total	C	N	O	S	0	0
			152	101	28	22	1		

- Molecule 29 is a protein called RIB43A-like with coiled-coils protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	R	195	Total	C	N	O	S	0	0
			1648	1010	324	304	10		
29	S	323	Total	C	N	O	S	0	0
			2728	1662	539	512	15		

- Molecule 30 is a protein called Tektin-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	U0	355	Total	C	N	O	S	0	0
			2897	1793	524	557	23		
30	U1	415	Total	C	N	O	S	0	0
			3396	2101	624	646	25		
30	U2	415	Total	C	N	O	S	0	0
			3396	2101	624	646	25		
30	U3	415	Total	C	N	O	S	0	0
			3396	2101	624	646	25		
30	U4	201	Total	C	N	O	S	0	0
			1664	1019	319	319	7		
30	U5	318	Total	C	N	O	S	0	0
			2607	1604	484	501	18		
30	U6	410	Total	C	N	O	S	0	0
			3360	2079	619	638	24		
30	U7	410	Total	C	N	O	S	0	0
			3360	2079	619	638	24		
30	U8	410	Total	C	N	O	S	0	0
			3360	2079	619	638	24		
30	U9	182	Total	C	N	O	S	0	0
			1486	932	266	275	13		
30	V0	208	Total	C	N	O	S	0	0
			1695	1061	300	319	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
30	V1	389	Total	C	N	O	S	0	0
			3185	1967	583	612	23		
30	V2	389	Total	C	N	O	S	0	0
			3185	1967	583	612	23		
30	V3	389	Total	C	N	O	S	0	0
			3185	1967	583	612	23		
30	V4	284	Total	C	N	O	S	0	0
			2325	1425	429	454	17		
30	V5	294	Total	C	N	O	S	0	0
			2408	1493	432	466	17		
30	V6	364	Total	C	N	O	S	0	0
			2980	1841	542	577	20		
30	V7	334	Total	C	N	O	S	0	0
			2736	1700	493	522	21		
30	V8	303	Total	C	N	O	S	0	0
			2477	1539	442	479	17		
30	V9	99	Total	C	N	O	S	0	0
			800	507	136	153	4		
30	W0	298	Total	C	N	O	S	0	0
			2447	1513	449	465	20		
30	W2	300	Total	C	N	O	S	0	0
			2458	1522	447	469	20		
30	W4	323	Total	C	N	O	S	0	0
			2662	1655	486	502	19		
30	W5	323	Total	C	N	O	S	0	0
			2662	1655	486	502	19		
30	W6	323	Total	C	N	O	S	0	0
			2662	1655	486	502	19		
30	W7	323	Total	C	N	O	S	0	0
			2662	1655	486	502	19		

- Molecule 31 is a protein called EF-hand domain-containing family member C2.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	W	741	Total	C	N	O	S	0	0
			6116	3950	1019	1119	28		
31	X	741	Total	C	N	O	S	0	0
			6116	3950	1019	1119	28		
31	Y	742	Total	C	N	O	S	0	0
			6124	3954	1021	1121	28		
31	Z	741	Total	C	N	O	S	0	0
			6116	3950	1019	1119	28		

- Molecule 32 is a protein called Spermatid-specific manchette-related protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	X0	25	Total	C	N	O	S	0	0
			200	124	34	38	4		
32	X1	24	Total	C	N	O	S	0	0
			192	118	33	37	4		
32	X2	24	Total	C	N	O	S	0	0
			192	118	33	37	4		
32	X3	25	Total	C	N	O	S	0	0
			200	124	34	38	4		

- Molecule 33 is a protein called Protein phosphatase 1 regulatory subunit 32.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	X4	330	Total	C	N	O	S	0	0
			2619	1638	471	509	1		
33	X5	133	Total	C	N	O	S	0	0
			1041	658	182	196	5		

- Molecule 34 is a protein called Testis-specific serine/threonine-protein kinase 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	X6	267	Total	C	N	O	S	0	0
			2097	1335	380	374	8		
34	X7	267	Total	C	N	O	S	0	0
			2097	1335	380	374	8		
34	X8	267	Total	C	N	O	S	0	0
			2097	1335	380	374	8		

- Molecule 35 is a protein called Cilia- and flagella-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	XA	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		
35	XB	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		
35	XC	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		
35	XD	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		
35	XE	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
35	XF	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		
35	XG	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		
35	XH	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		

- Molecule 36 is a protein called Outer dense fiber protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	Y0	63	Total	C	N	O	S	0	0
			483	313	87	80	3		
36	Y1	240	Total	C	N	O	S	0	0
			1828	1176	317	327	8		
36	Y2	225	Total	C	N	O	S	0	0
			1711	1101	294	309	7		
36	Y3	63	Total	C	N	O	S	0	0
			483	313	87	80	3		
36	Y4	185	Total	C	N	O	S	0	0
			1412	910	241	255	6		
36	Y5	85	Total	C	N	O	S	0	0
			644	411	110	120	3		

- Molecule 37 is a protein called Parkin coregulated gene protein homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	YA	220	Total	C	N	O	S	0	0
			1775	1148	300	317	10		
37	YB	220	Total	C	N	O	S	0	0
			1775	1148	300	317	10		
37	YC	220	Total	C	N	O	S	0	0
			1775	1148	300	317	10		
37	YD	220	Total	C	N	O	S	0	0
			1775	1148	300	317	10		
37	YE	220	Total	C	N	O	S	0	0
			1775	1148	300	317	10		
37	YF	220	Total	C	N	O	S	0	0
			1775	1148	300	317	10		
37	YG	220	Total	C	N	O	S	0	0
			1775	1148	300	317	10		
37	YH	220	Total	C	N	O	S	0	0
			1775	1148	300	317	10		

- Molecule 38 is a protein called Testis, prostate and placenta-expressed protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	Z1	33	Total	C	N	O	S	0	0
			279	181	48	48	2		

- Molecule 39 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	a	294	Total	C	N	O	S	0	0
			2499	1522	478	485	14		
39	a6	70	Total	C	N	O	S	0	0
			572	363	99	108	2		
39	b	244	Total	C	N	O	S	0	0
			2092	1266	420	399	7		
39	c	413	Total	C	N	O	S	0	0
			3528	2141	692	680	15		
39	d	135	Total	C	N	O	S	0	0
			1155	701	233	219	2		

- Molecule 40 is a protein called Uncharacterized protein C10orf82 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	a1	156	Total	C	N	O	S	0	0
			1277	818	218	231	10		
40	a2	156	Total	C	N	O	S	0	0
			1277	818	218	231	10		
40	a3	156	Total	C	N	O	S	0	0
			1277	818	218	231	10		
40	a4	156	Total	C	N	O	S	0	0
			1277	818	218	231	10		

- Molecule 41 is a protein called Coiled-coil domain-containing protein 105.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	b1	132	Total	C	N	O	S	0	0
			1081	670	212	188	11		
41	b2	381	Total	C	N	O	S	0	0
			3091	1915	598	555	23		
41	b3	382	Total	C	N	O	S	0	0
			3102	1921	602	556	23		
41	b4	382	Total	C	N	O	S	0	0
			3102	1921	602	556	23		
41	b5	333	Total	C	N	O	S	0	0
			2705	1675	519	489	22		

- Molecule 42 is a protein called Cilia- and flagella-associated protein 52.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	e	607	Total	C	N	O	S	0	0
			4689	2967	818	872	32		
42	f	607	Total	C	N	O	S	0	0
			4689	2967	818	872	32		
42	g	607	Total	C	N	O	S	0	0
			4689	2967	818	872	32		

- Molecule 43 is a protein called Enkurin.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	h	247	Total	C	N	O	S	0	0
			2014	1287	351	367	9		
43	i	245	Total	C	N	O	S	0	0
			1999	1279	349	362	9		
43	j	244	Total	C	N	O	S	0	0
			1993	1276	348	360	9		
43	k	245	Total	C	N	O	S	0	0
			1999	1279	349	362	9		

- Molecule 44 is a protein called Testis-expressed protein 43.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	h1	97	Total	C	N	O	S	0	0
			787	506	139	136	6		
44	h2	99	Total	C	N	O	S	0	0
			809	518	147	138	6		
44	h3	99	Total	C	N	O	S	0	0
			809	518	147	138	6		
44	h4	98	Total	C	N	O	S	0	0
			798	512	143	137	6		

- Molecule 45 is a protein called Protein Flattop.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	i1	116	Total	C	N	O	S	0	0
			909	579	162	165	3		
45	l	116	Total	C	N	O	S	0	0
			909	579	162	165	3		
45	m	116	Total	C	N	O	S	0	0
			909	579	162	165	3		
45	n	116	Total	C	N	O	S	0	0
			909	579	162	165	3		

- Molecule 46 is a protein called EF-hand calcium-binding domain-containing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	i2	180	Total	C	N	O	S	0	0
			1500	956	263	271	10		
46	i3	180	Total	C	N	O	S	0	0
			1500	956	263	271	10		
46	i4	180	Total	C	N	O	S	0	0
			1500	956	263	271	10		

- Molecule 47 is a protein called Cilia- and flagella-associated protein 210.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	o	199	Total	C	N	O	S	0	0
			1688	1040	321	322	5		
47	p	395	Total	C	N	O	S	0	0
			3300	2045	601	643	11		

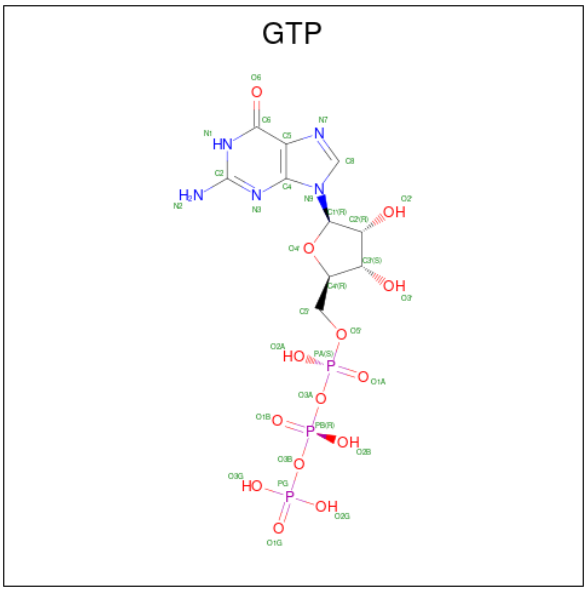
- Molecule 48 is a protein called Cilia- and flagella-associated protein 276.

Mol	Chain	Residues	Atoms				AltConf	Trace
48	q	75	Total	C	N	O	0	0
			599	379	108	112		
48	r	78	Total	C	N	O	0	0
			625	395	114	116		
48	s	78	Total	C	N	O	0	0
			625	395	114	116		

- Molecule 49 is a protein called Piercer of microtubule wall 1 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	y	111	Total	C	N	O	S	0	0
			911	577	165	166	3		

- Molecule 50 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
50	AA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	AC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	AE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	AG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	AI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	AK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	AM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	AO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	BC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	BE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	BG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	BI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	BK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	BM	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
50	BO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	CC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	CE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	CG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	CI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	CK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	CM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	CO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	CQ	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	DC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	DE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	DG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	DI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	DK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	DM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	DO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	DQ	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	EA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	EC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	EE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	EG	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
50	EI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	EK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	EM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	EO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	FA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	FC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	FE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	FG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	FI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	FK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	FM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	FO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	GA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	GC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	GE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	GG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	GI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	GK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	GM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	GO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	HA	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
50	HC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	HE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	HG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	HI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	HK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	HM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	HO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	IA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	IC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	IE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	IG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	II	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	IK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	IM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	IO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	JC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	JE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	JG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	JI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	JK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	JM	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
50	JO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	JQ	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	KA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	KC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	KE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	KG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	KI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	KK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	KM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	KO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	LA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	LC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	LE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	LG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	LI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	LK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	LM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	LO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	MA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	MC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	ME	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
50	MG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	MI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	MK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	MM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	MO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	NA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	NC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	NE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	NG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	NI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	NK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	NM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	NO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	OA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	OC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	OE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	OG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	OI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	OK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	OM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	OO	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
50	PC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	PE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	PG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	PI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	PK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	PM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	PO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	QC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	QE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	QG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	QI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	QK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	QM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	QO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	RC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	RE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	RG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	RI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	RK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	RM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	RO	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
50	SA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	SC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	SE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	SG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	SI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	SK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	SM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	TA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	TC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	TE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	TG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	TI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	TK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	TM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	UA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	UC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	UE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	UG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	UI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	UK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	UM	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
50	UO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	VA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	VC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	VE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	VG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	VI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	VK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	VM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	VO	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	WA	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	WC	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	WE	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	WG	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	WI	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	WK	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	WM	1	Total	C	N	O	P	0
			32	10	5	14	3	
50	WO	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 51 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
51	AA	1	Total	Mg	0
			1	1	
51	AC	1	Total	Mg	0
			1	1	

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Mol	Chain	Residues	Atoms	AltConf
51	AE	1	Total Mg 1 1	0
51	AG	1	Total Mg 1 1	0
51	AI	1	Total Mg 1 1	0
51	AK	1	Total Mg 1 1	0
51	AM	1	Total Mg 1 1	0
51	AO	1	Total Mg 1 1	0
51	BC	1	Total Mg 1 1	0
51	BE	1	Total Mg 1 1	0
51	BG	1	Total Mg 1 1	0
51	BI	1	Total Mg 1 1	0
51	BK	1	Total Mg 1 1	0
51	BM	1	Total Mg 1 1	0
51	BO	1	Total Mg 1 1	0
51	CC	1	Total Mg 1 1	0
51	CE	1	Total Mg 1 1	0
51	CG	1	Total Mg 1 1	0
51	CI	1	Total Mg 1 1	0
51	CK	1	Total Mg 1 1	0
51	CM	1	Total Mg 1 1	0
51	CO	1	Total Mg 1 1	0
51	CQ	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
51	DC	1	Total Mg 1 1	0
51	DE	1	Total Mg 1 1	0
51	DG	1	Total Mg 1 1	0
51	DI	1	Total Mg 1 1	0
51	DK	1	Total Mg 1 1	0
51	DM	1	Total Mg 1 1	0
51	DO	1	Total Mg 1 1	0
51	DQ	1	Total Mg 1 1	0
51	EA	1	Total Mg 1 1	0
51	EC	1	Total Mg 1 1	0
51	EE	1	Total Mg 1 1	0
51	EG	1	Total Mg 1 1	0
51	EI	1	Total Mg 1 1	0
51	EK	1	Total Mg 1 1	0
51	EM	1	Total Mg 1 1	0
51	EO	1	Total Mg 1 1	0
51	FA	1	Total Mg 1 1	0
51	FC	1	Total Mg 1 1	0
51	FE	1	Total Mg 1 1	0
51	FG	1	Total Mg 1 1	0
51	FI	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
51	FK	1	Total Mg 1 1	0
51	FM	1	Total Mg 1 1	0
51	FO	1	Total Mg 1 1	0
51	GA	1	Total Mg 1 1	0
51	GC	1	Total Mg 1 1	0
51	GE	1	Total Mg 1 1	0
51	GG	1	Total Mg 1 1	0
51	GI	1	Total Mg 1 1	0
51	GK	1	Total Mg 1 1	0
51	GM	1	Total Mg 1 1	0
51	GO	1	Total Mg 1 1	0
51	HA	1	Total Mg 1 1	0
51	HC	1	Total Mg 1 1	0
51	HE	1	Total Mg 1 1	0
51	HG	1	Total Mg 1 1	0
51	HI	1	Total Mg 1 1	0
51	HK	1	Total Mg 1 1	0
51	HM	1	Total Mg 1 1	0
51	HO	1	Total Mg 1 1	0
51	IA	1	Total Mg 1 1	0
51	IC	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
51	IE	1	Total Mg 1 1	0
51	IG	1	Total Mg 1 1	0
51	II	1	Total Mg 1 1	0
51	IK	1	Total Mg 1 1	0
51	IM	1	Total Mg 1 1	0
51	IO	1	Total Mg 1 1	0
51	JC	1	Total Mg 1 1	0
51	JE	1	Total Mg 1 1	0
51	JG	1	Total Mg 1 1	0
51	JI	1	Total Mg 1 1	0
51	JK	1	Total Mg 1 1	0
51	JM	1	Total Mg 1 1	0
51	JO	1	Total Mg 1 1	0
51	JQ	1	Total Mg 1 1	0
51	KA	1	Total Mg 1 1	0
51	KC	1	Total Mg 1 1	0
51	KE	1	Total Mg 1 1	0
51	KG	1	Total Mg 1 1	0
51	KI	1	Total Mg 1 1	0
51	KK	1	Total Mg 1 1	0
51	KM	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
51	KO	1	Total Mg 1 1	0
51	LA	1	Total Mg 1 1	0
51	LC	1	Total Mg 1 1	0
51	LE	1	Total Mg 1 1	0
51	LG	1	Total Mg 1 1	0
51	LI	1	Total Mg 1 1	0
51	LK	1	Total Mg 1 1	0
51	LM	1	Total Mg 1 1	0
51	LO	1	Total Mg 1 1	0
51	MA	1	Total Mg 1 1	0
51	MC	1	Total Mg 1 1	0
51	ME	1	Total Mg 1 1	0
51	MG	1	Total Mg 1 1	0
51	MI	1	Total Mg 1 1	0
51	MK	1	Total Mg 1 1	0
51	MM	1	Total Mg 1 1	0
51	MO	1	Total Mg 1 1	0
51	NA	1	Total Mg 1 1	0
51	NC	1	Total Mg 1 1	0
51	NE	1	Total Mg 1 1	0
51	NG	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
51	NI	1	Total Mg 1 1	0
51	NK	1	Total Mg 1 1	0
51	NM	1	Total Mg 1 1	0
51	NO	1	Total Mg 1 1	0
51	OA	1	Total Mg 1 1	0
51	OC	1	Total Mg 1 1	0
51	OE	1	Total Mg 1 1	0
51	OG	1	Total Mg 1 1	0
51	OI	1	Total Mg 1 1	0
51	OK	1	Total Mg 1 1	0
51	OM	1	Total Mg 1 1	0
51	OO	1	Total Mg 1 1	0
51	PC	1	Total Mg 1 1	0
51	PE	1	Total Mg 1 1	0
51	PG	1	Total Mg 1 1	0
51	PI	1	Total Mg 1 1	0
51	PK	1	Total Mg 1 1	0
51	PM	1	Total Mg 1 1	0
51	PO	1	Total Mg 1 1	0
51	QC	1	Total Mg 1 1	0
51	QE	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
51	QG	1	Total Mg 1 1	0
51	QI	1	Total Mg 1 1	0
51	QK	1	Total Mg 1 1	0
51	QM	1	Total Mg 1 1	0
51	QO	1	Total Mg 1 1	0
51	RC	1	Total Mg 1 1	0
51	RE	1	Total Mg 1 1	0
51	RG	1	Total Mg 1 1	0
51	RI	1	Total Mg 1 1	0
51	RK	1	Total Mg 1 1	0
51	RM	1	Total Mg 1 1	0
51	RO	1	Total Mg 1 1	0
51	SA	1	Total Mg 1 1	0
51	SC	1	Total Mg 1 1	0
51	SE	1	Total Mg 1 1	0
51	SG	1	Total Mg 1 1	0
51	SI	1	Total Mg 1 1	0
51	SK	1	Total Mg 1 1	0
51	SM	1	Total Mg 1 1	0
51	TA	1	Total Mg 1 1	0
51	TC	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
51	TE	1	Total Mg 1 1	0
51	TG	1	Total Mg 1 1	0
51	TI	1	Total Mg 1 1	0
51	TK	1	Total Mg 1 1	0
51	TM	1	Total Mg 1 1	0
51	UA	1	Total Mg 1 1	0
51	UC	1	Total Mg 1 1	0
51	UE	1	Total Mg 1 1	0
51	UG	1	Total Mg 1 1	0
51	UI	1	Total Mg 1 1	0
51	UK	1	Total Mg 1 1	0
51	UM	1	Total Mg 1 1	0
51	UO	1	Total Mg 1 1	0
51	VA	1	Total Mg 1 1	0
51	VC	1	Total Mg 1 1	0
51	VE	1	Total Mg 1 1	0
51	VG	1	Total Mg 1 1	0
51	VI	1	Total Mg 1 1	0
51	VK	1	Total Mg 1 1	0
51	VM	1	Total Mg 1 1	0
51	VO	1	Total Mg 1 1	0

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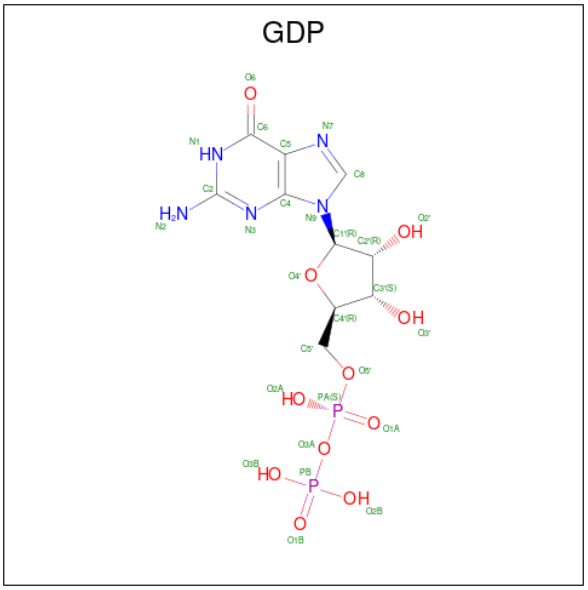
Mol	Chain	Residues	Atoms	AltConf
51	WA	1	Total Mg 1 1	0
51	WC	1	Total Mg 1 1	0
51	WE	1	Total Mg 1 1	0
51	WG	1	Total Mg 1 1	0
51	WI	1	Total Mg 1 1	0
51	WK	1	Total Mg 1 1	0
51	WM	1	Total Mg 1 1	0
51	WO	1	Total Mg 1 1	0

- Molecule 52 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).



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

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Mol	Chain	Residues	Atoms					AltConf
52	AH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	AJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	AL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	AN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	AP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	BB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	BD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	BF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	BH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	BJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	BL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	BN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	BP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	CB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	CD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	CF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	CH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	CJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	CL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	CN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	CP	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
52	DB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	DD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	DF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	DH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	DJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	DL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	DN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	DP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	EB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	ED	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	EF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	EH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	EJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	EL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	EN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	FB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	FD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	FF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	FH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	FJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	FL	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
52	FN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	GB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	GD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	GF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	GH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	GJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	GL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	GN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	HB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	HD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	HF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	HH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	HJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	HL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	HN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	HP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	IB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	ID	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	IF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	IH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	IJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
52	IL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	IN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	IP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	JB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	JD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	JF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	JH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	JJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	JL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	JN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	JP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	KB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	KD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	KF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	KH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	KJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	KL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	KN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	KP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	LB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	LD	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
52	LF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	LH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	LJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	LL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	LN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	LP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	MB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	MD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	MF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	MH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	MJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	ML	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	MN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	MP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	NB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	ND	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	NF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	NH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	NJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	NL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	NN	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
52	NP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	OB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	OD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	OF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	OH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	OJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	OL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	ON	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	OP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	PB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	PD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	PF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	PH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	PJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	PL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	PN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	PP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	QB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	QD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	QF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	QH	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
52	QJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	QL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	QN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	QP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	RD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	RF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	RH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	RJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	RL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	RN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	RP	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	SB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	SD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	SF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	SH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	SJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	SL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	SN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	TB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	TD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	TF	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
52	TH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	TJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	TL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	TN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	UB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	UD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	UF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	UH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	UJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	UL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	UN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	VB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	VD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	VF	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	VH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	VJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	VL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	VN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	WB	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	WD	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	WF	1	Total	C	N	O	P	0
			28	10	5	11	2	

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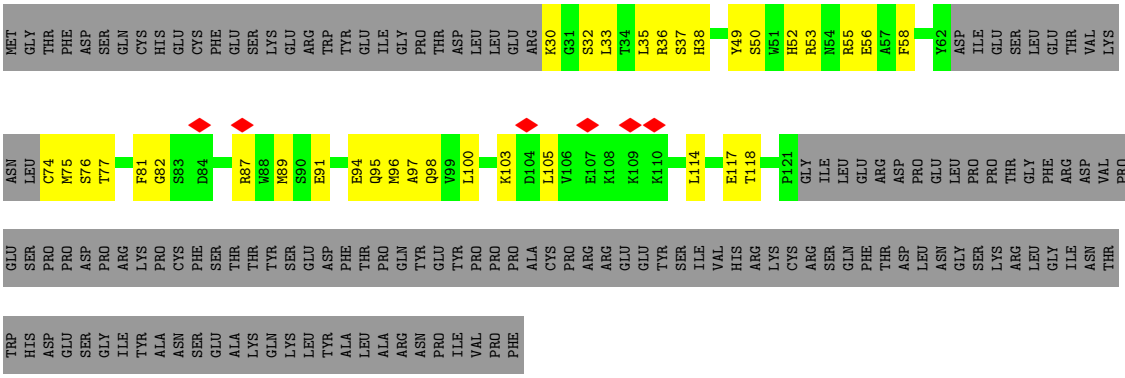
Mol	Chain	Residues	Atoms					AltConf
52	WH	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	WJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	WL	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	WN	1	Total	C	N	O	P	0
			28	10	5	11	2	
52	WP	1	Total	C	N	O	P	0
			28	10	5	11	2	

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.

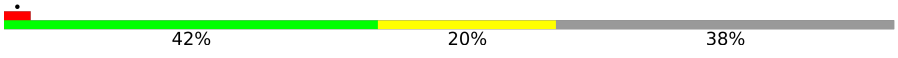
• Molecule 1: Cilia- and flagella-associated protein 95

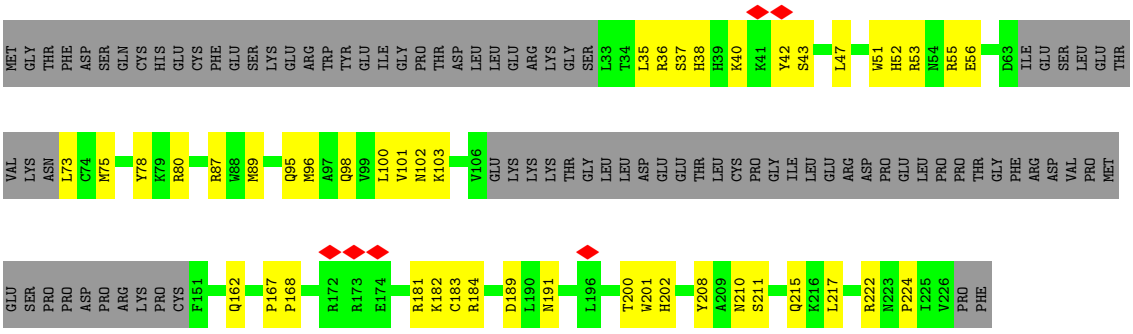
Chain 0:



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

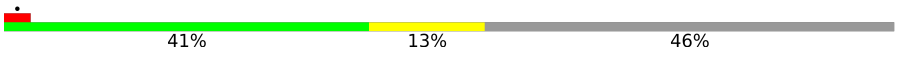
Chain 7:

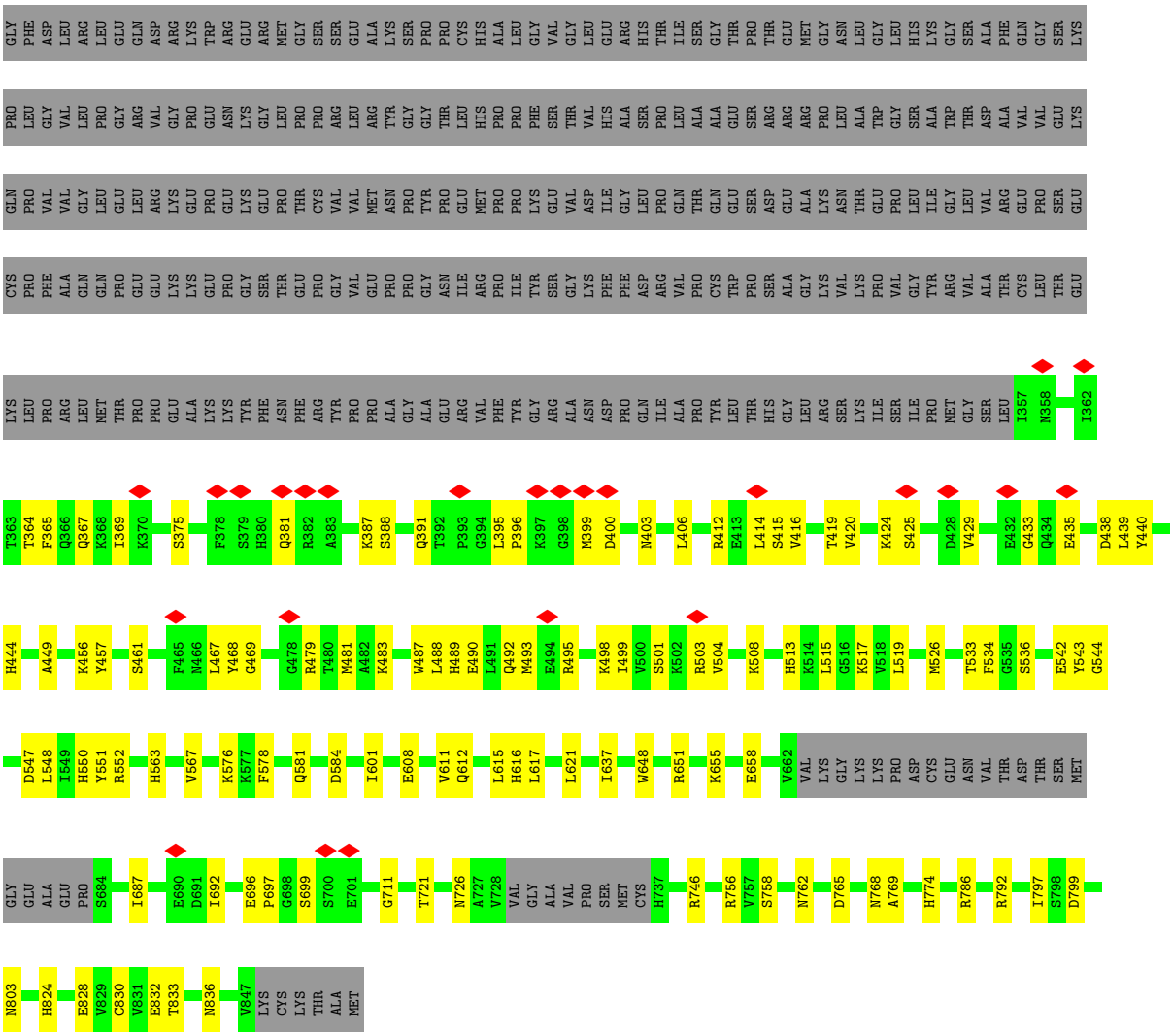




• Molecule 2: EF-hand domain-containing family member B

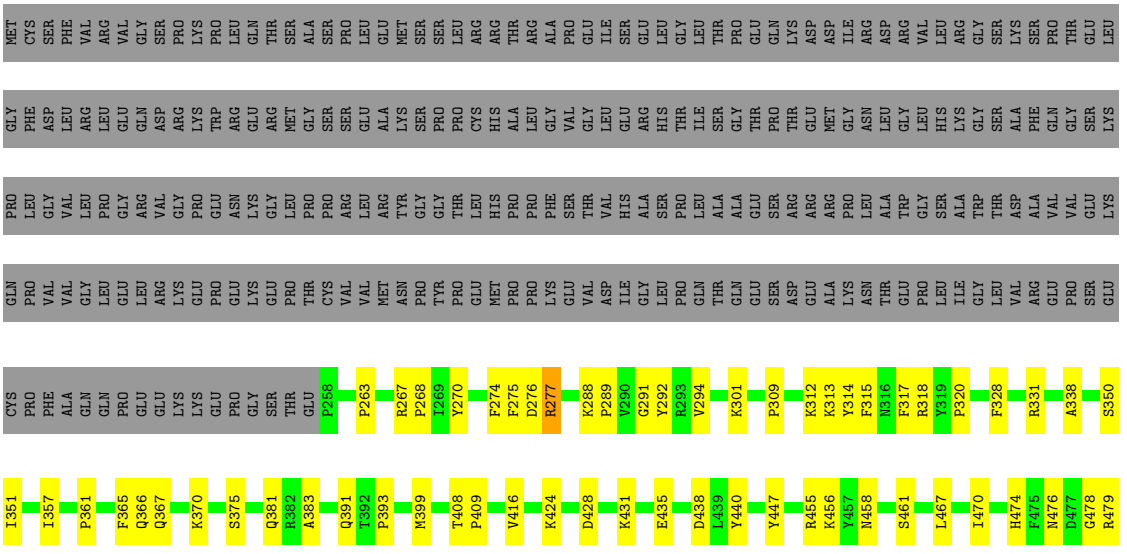
Chain 1:

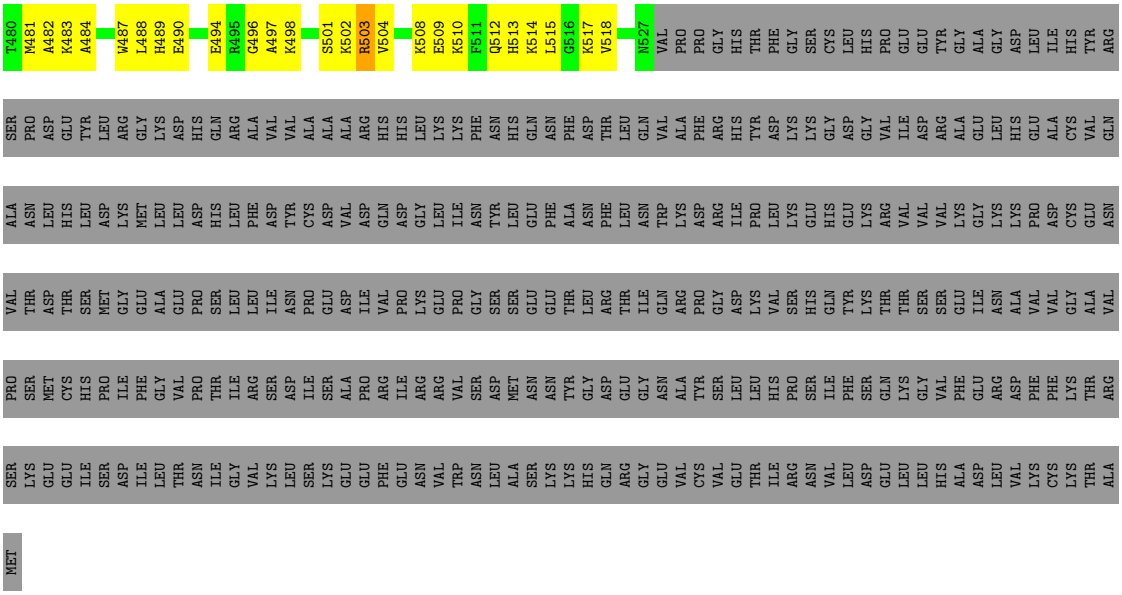




• Molecule 2: EF-hand domain-containing family member B

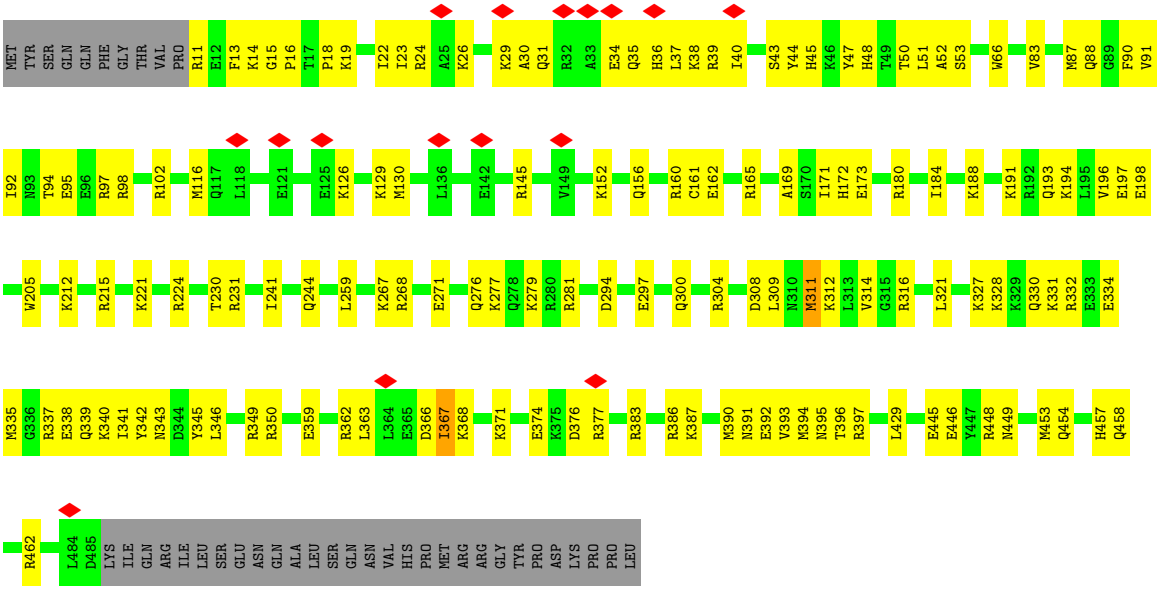
Chain 2:





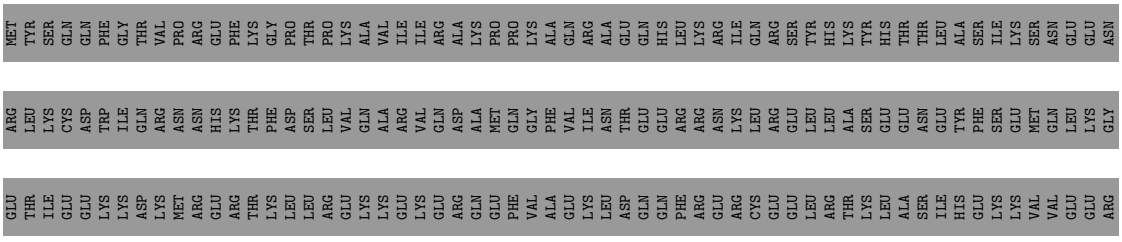
• Molecule 3: Cilia- and flagella-associated protein 53

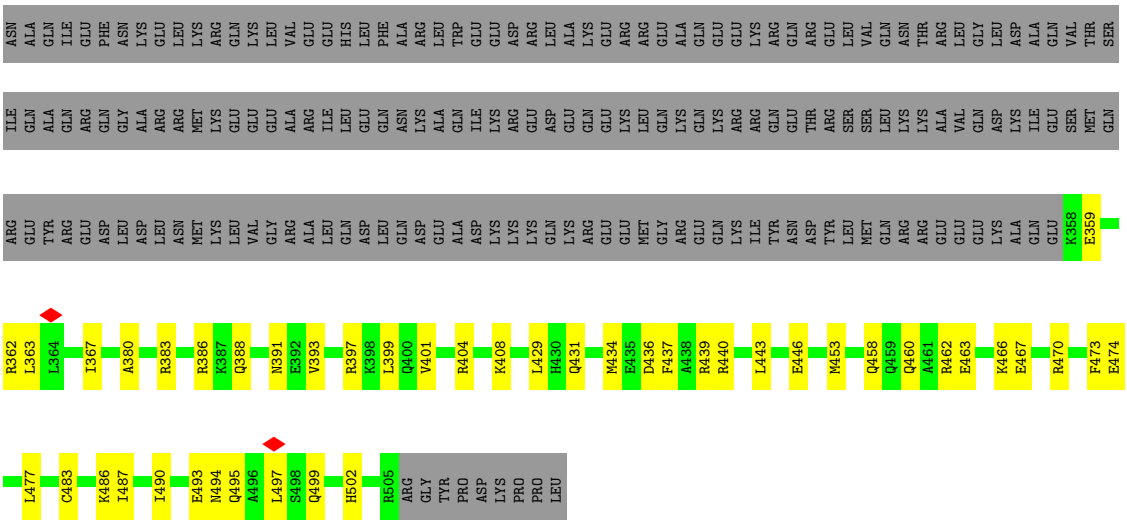
Chain 3:



• Molecule 3: Cilia- and flagella-associated protein 53

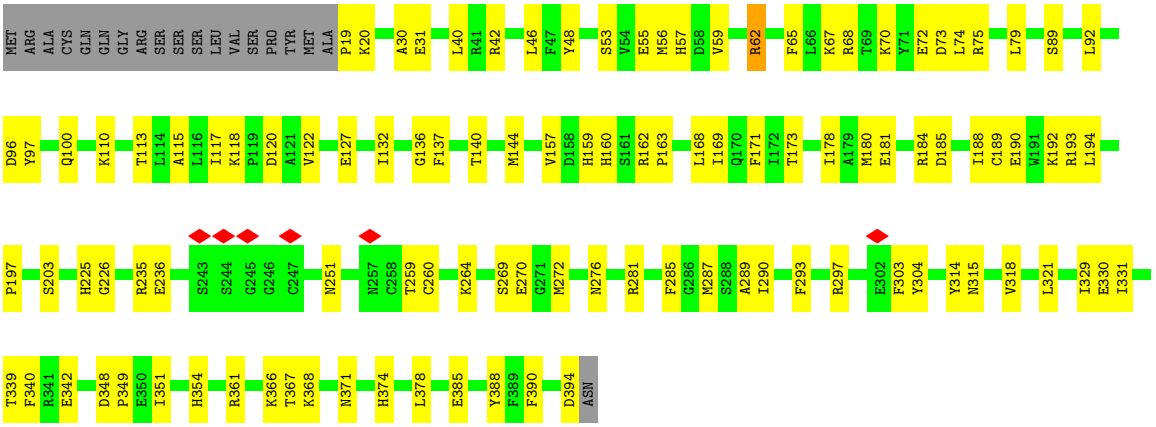
Chain 4:





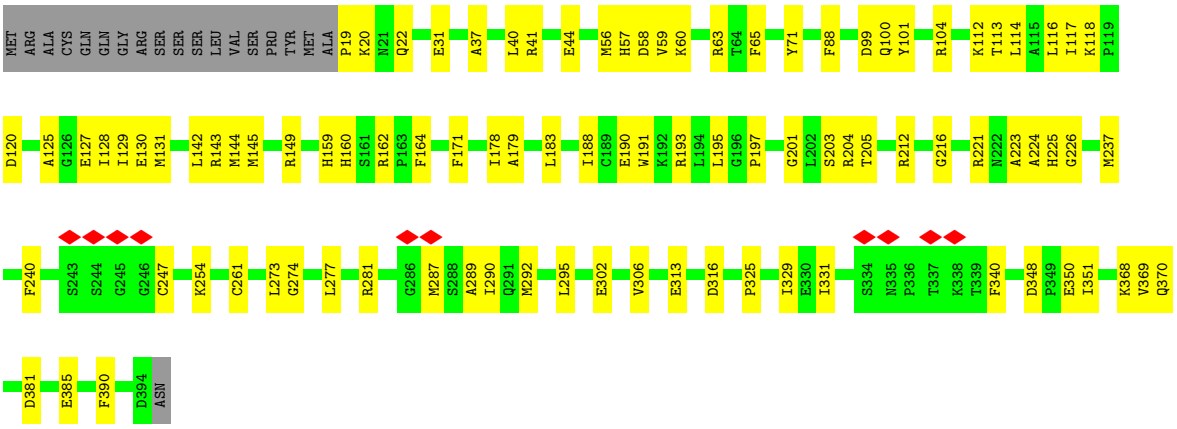
• Molecule 4: Nucleoside diphosphate kinase 7

Chain 5:



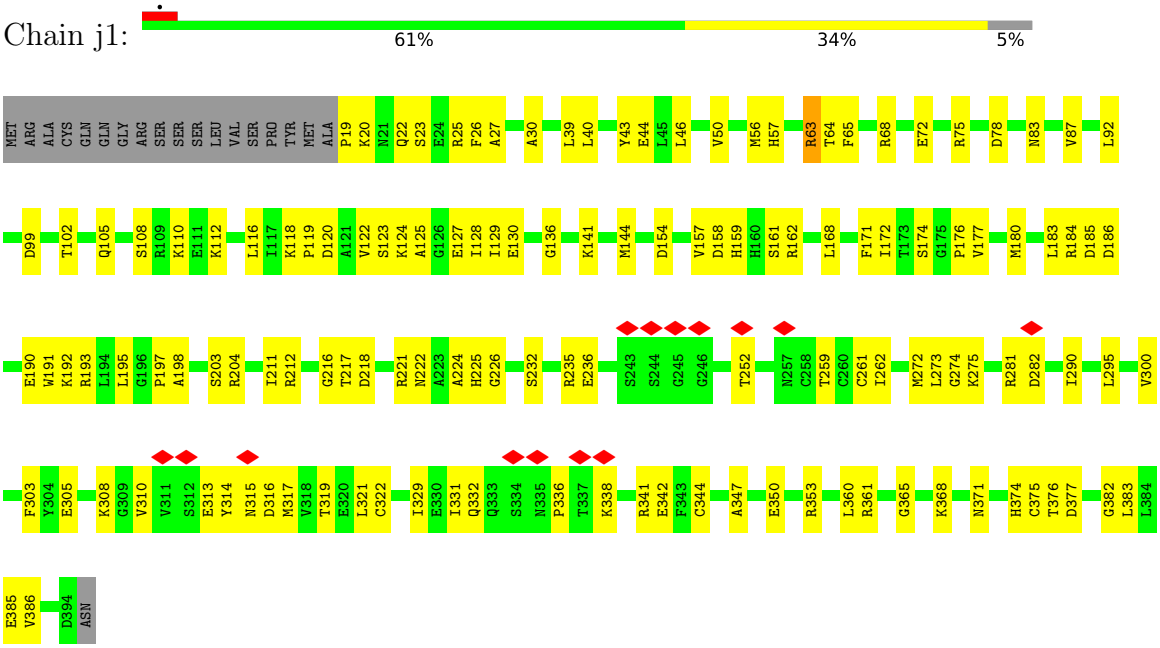
• Molecule 4: Nucleoside diphosphate kinase 7

Chain 6:



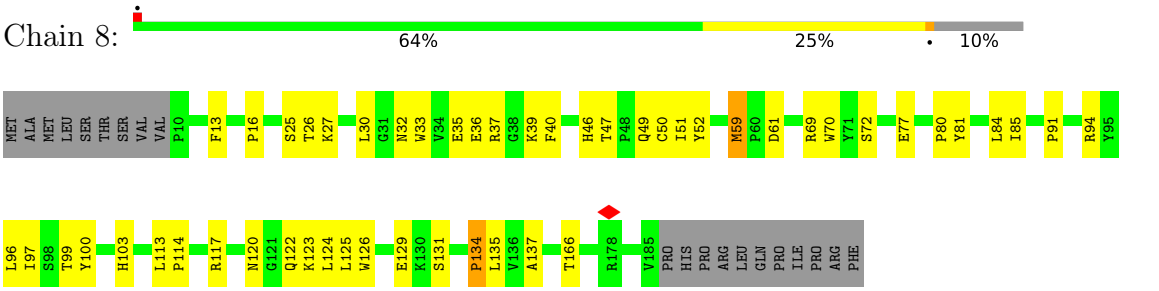
• Molecule 4: Nucleoside diphosphate kinase 7

Chain j1:



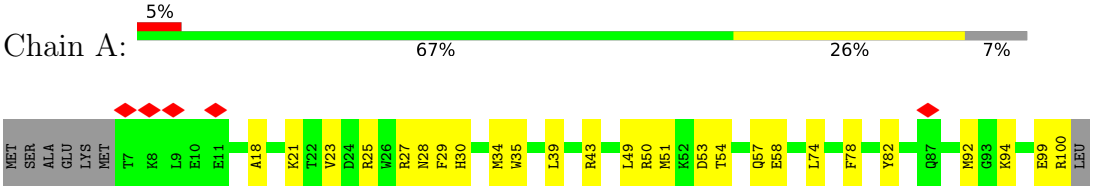
• Molecule 5: Cilia- and flagella-associated protein 107

Chain 8:



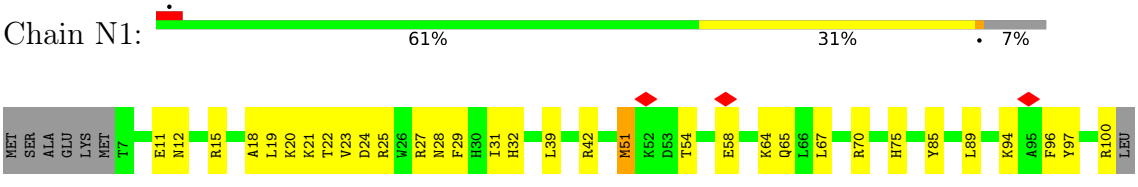
• Molecule 6: Cilia- and flagella-associated protein 141

Chain A:



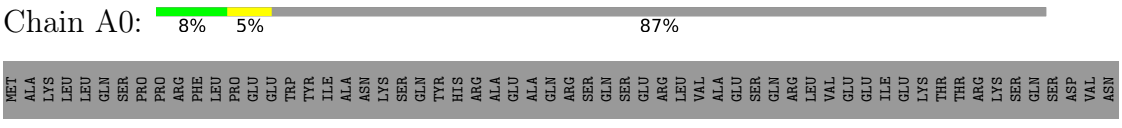
• Molecule 6: Cilia- and flagella-associated protein 141

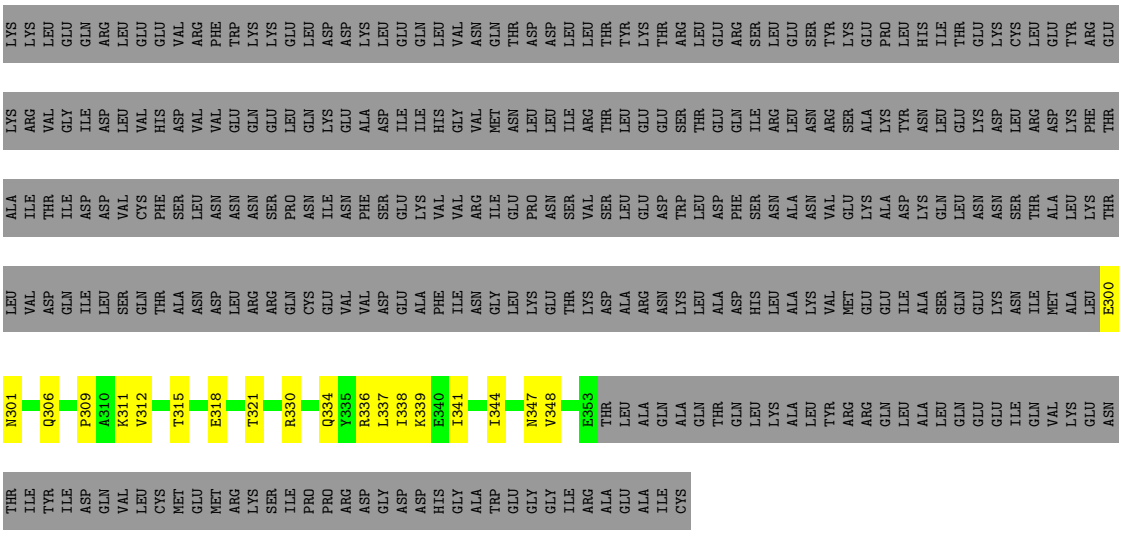
Chain N1:



• Molecule 7: Tektin-1

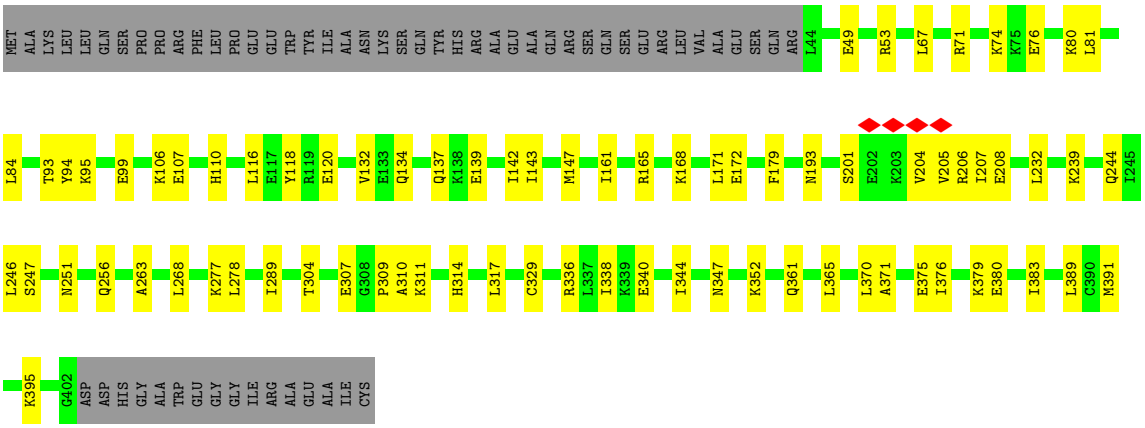
Chain A0:





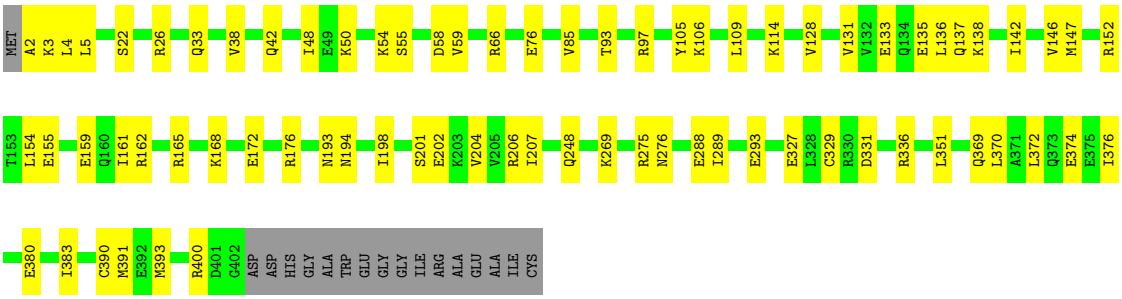
• Molecule 7: Tektin-1

Chain A1:



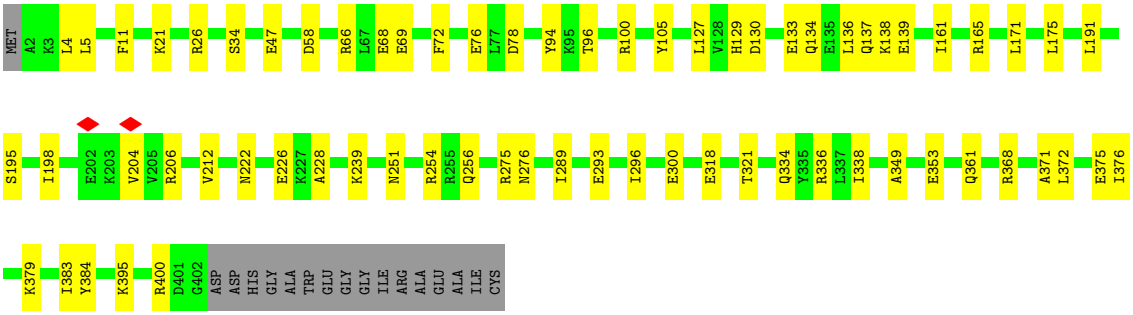
• Molecule 7: Tektin-1

Chain A2:



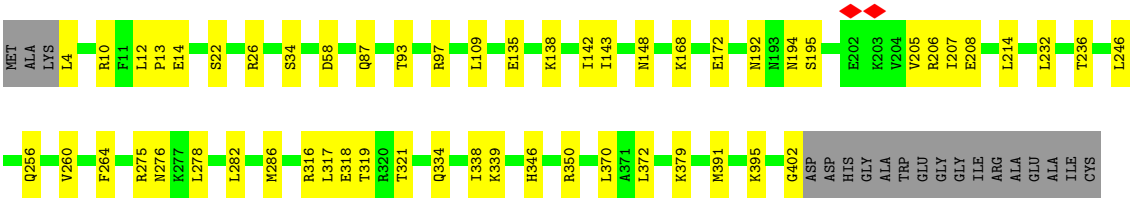
• Molecule 7: Tektin-1

Chain A3:



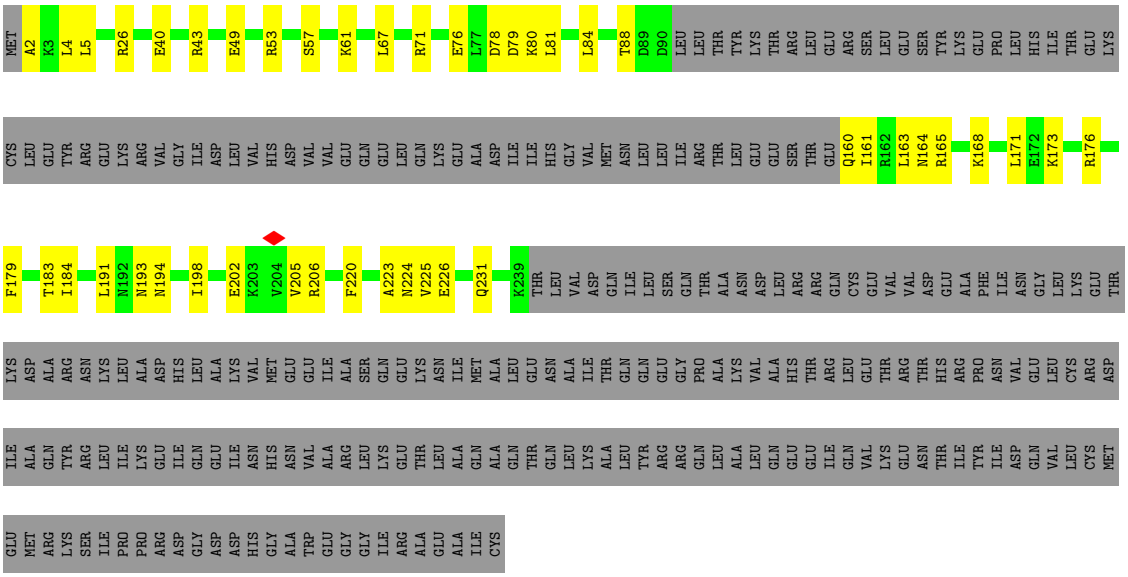
• Molecule 7: Tektin-1

Chain A4:



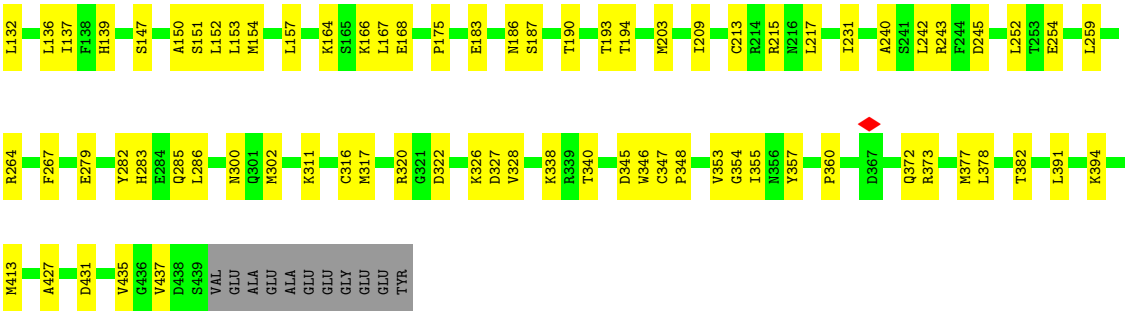
• Molecule 7: Tektin-1

Chain A5:



• Molecule 8: Tubulin alpha-3 chain

Chain AA:

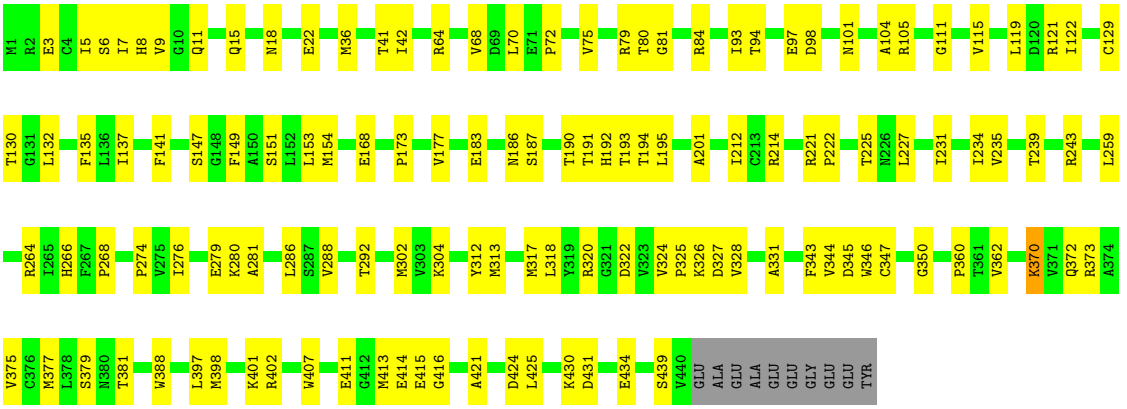


• Molecule 8: Tubulin alpha-3 chain

Chain AC:

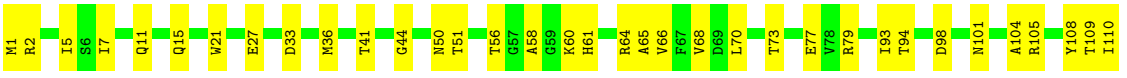
• Molecule 8: Tubulin alpha-3 chain

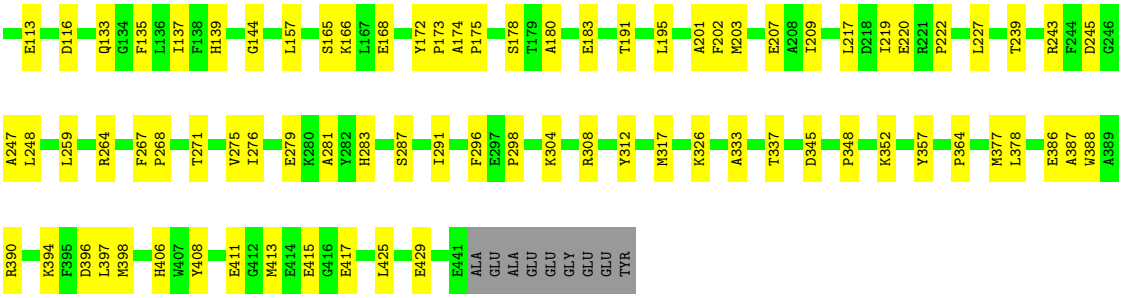
Chain AE:



• Molecule 8: Tubulin alpha-3 chain

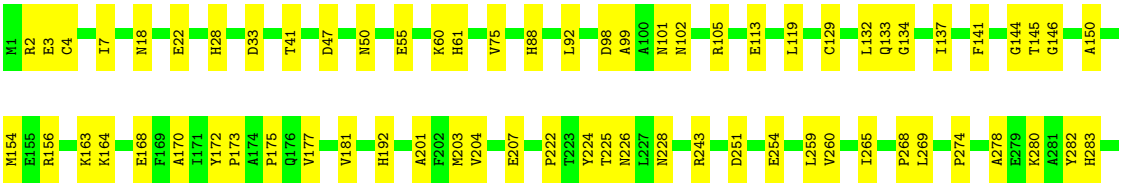
Chain AG:





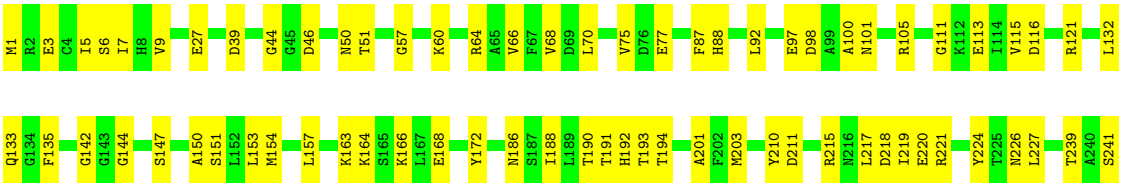
• Molecule 8: Tubulin alpha-3 chain

Chain AI:



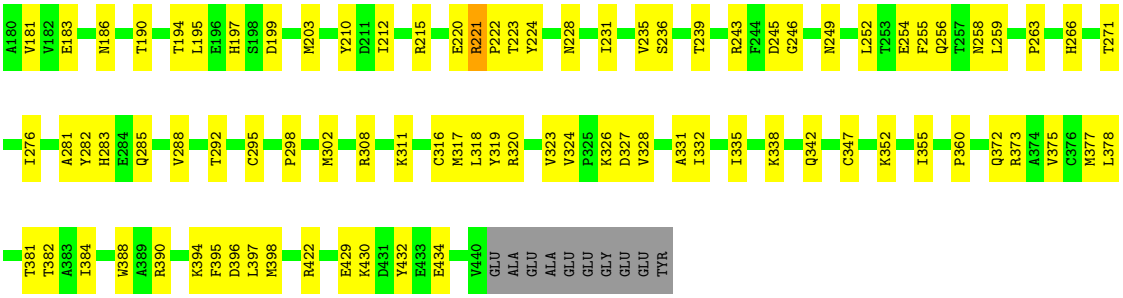
• Molecule 8: Tubulin alpha-3 chain

Chain AK:



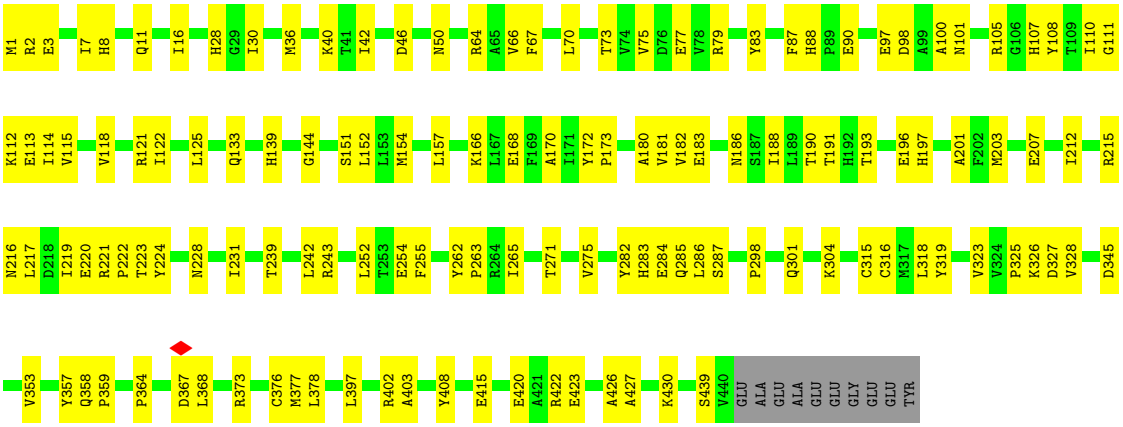
• Molecule 8: Tubulin alpha-3 chain

Chain AM:



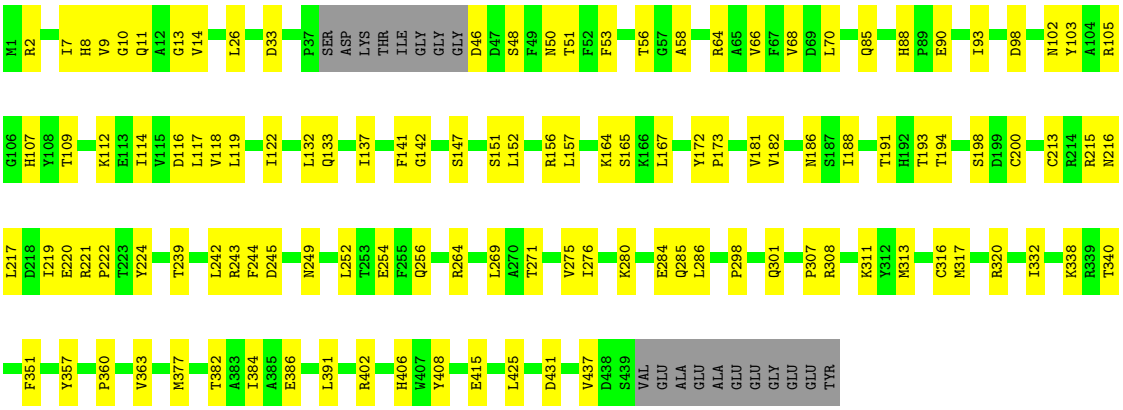
• Molecule 8: Tubulin alpha-3 chain

Chain AO:



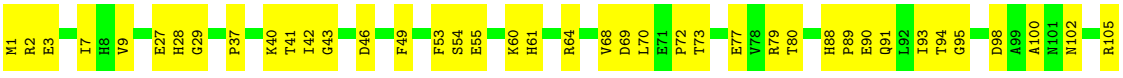
• Molecule 8: Tubulin alpha-3 chain

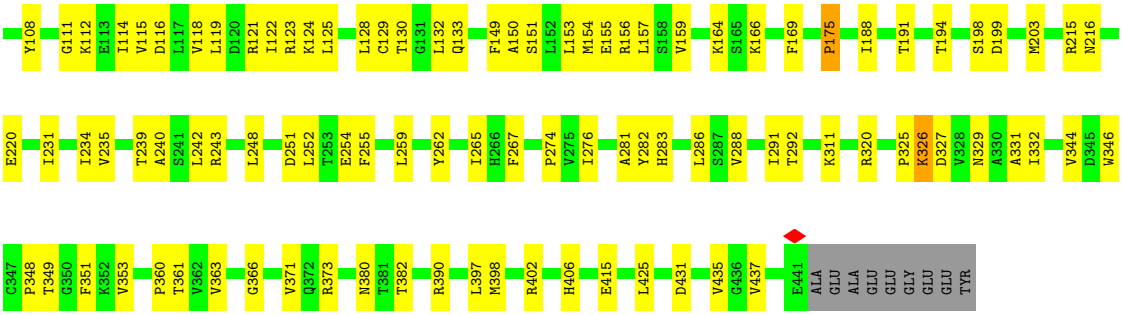
Chain BC:



• Molecule 8: Tubulin alpha-3 chain

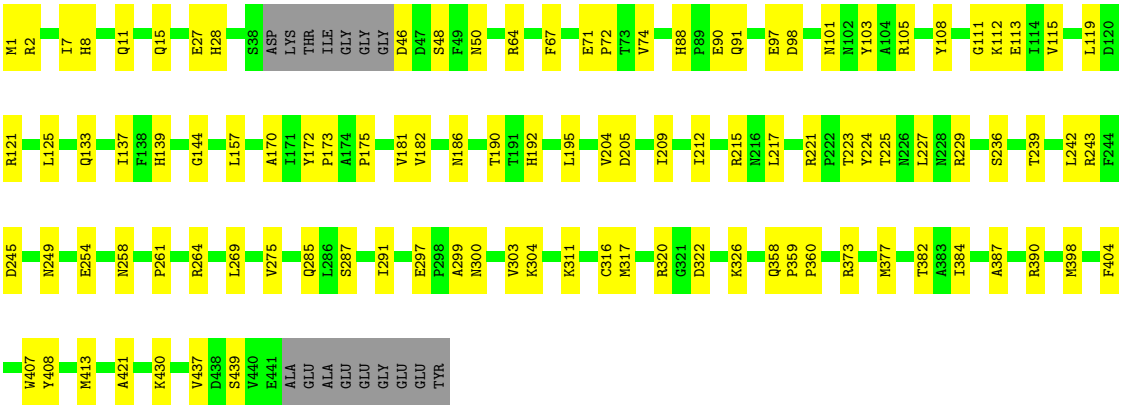
Chain BE:





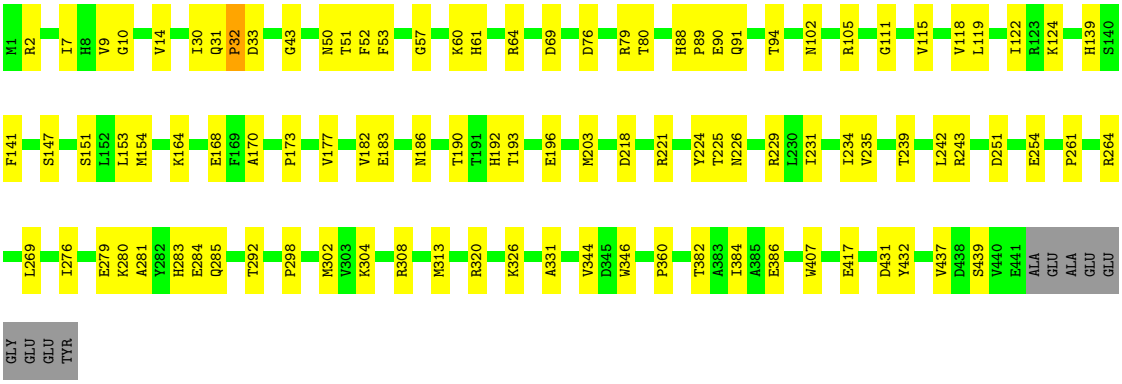
• Molecule 8: Tubulin alpha-3 chain

Chain BG:



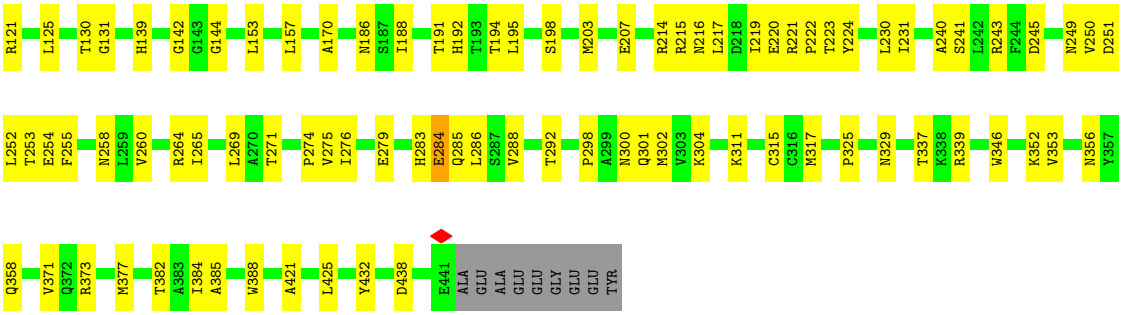
• Molecule 8: Tubulin alpha-3 chain

Chain BI:



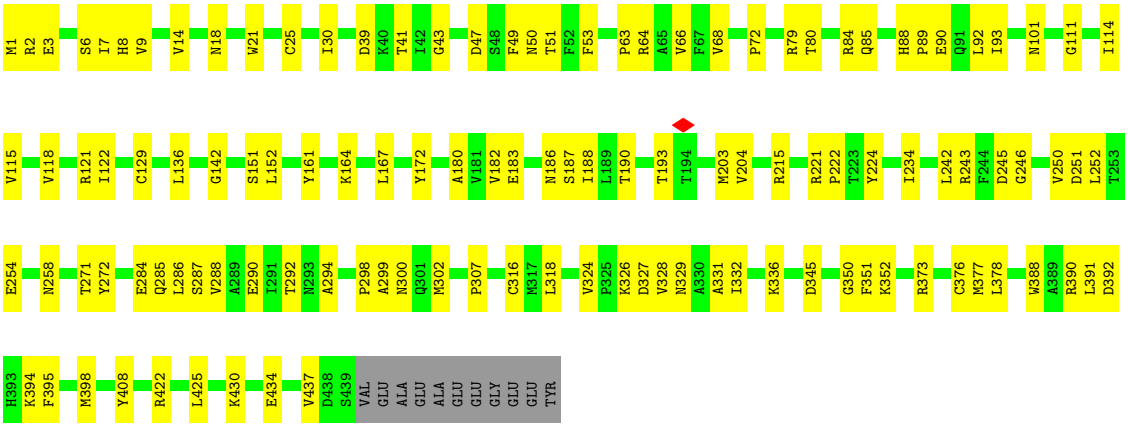
• Molecule 8: Tubulin alpha-3 chain

Chain BK:



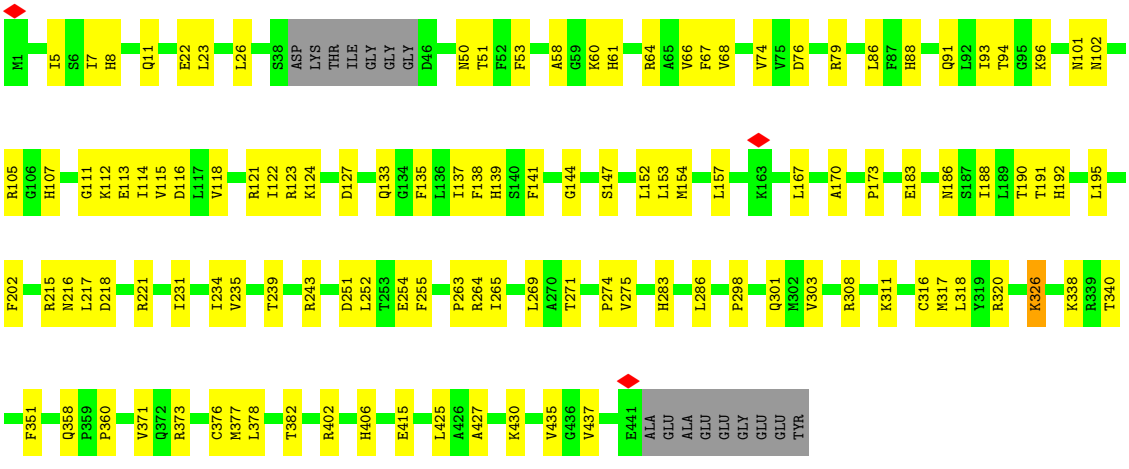
• Molecule 8: Tubulin alpha-3 chain

Chain BM:



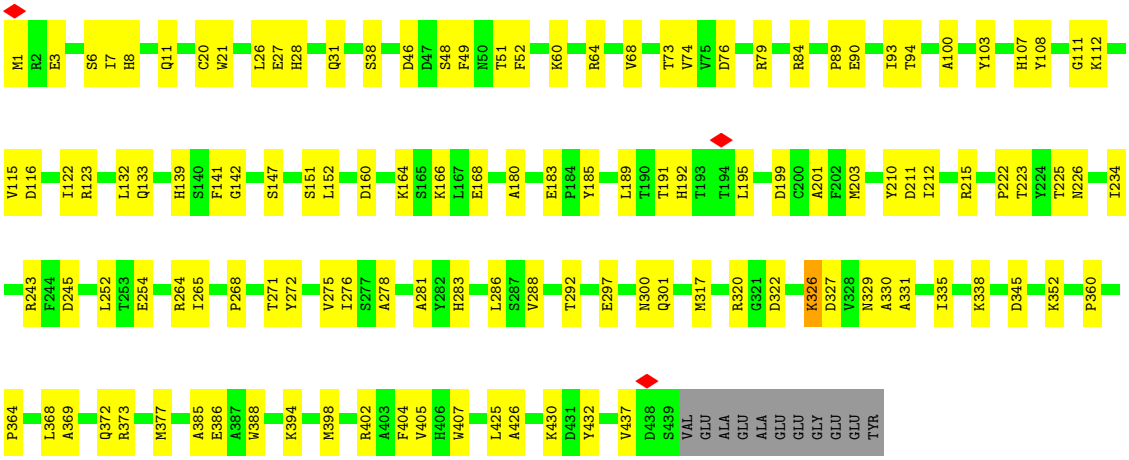
• Molecule 8: Tubulin alpha-3 chain

Chain BO:



• Molecule 8: Tubulin alpha-3 chain

Chain CC:

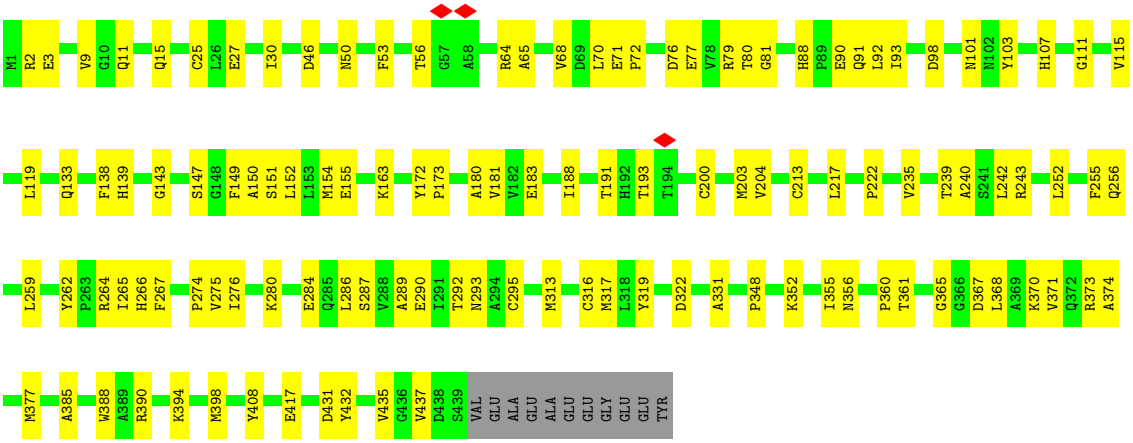


• Molecule 8: Tubulin alpha-3 chain

Chain CE:

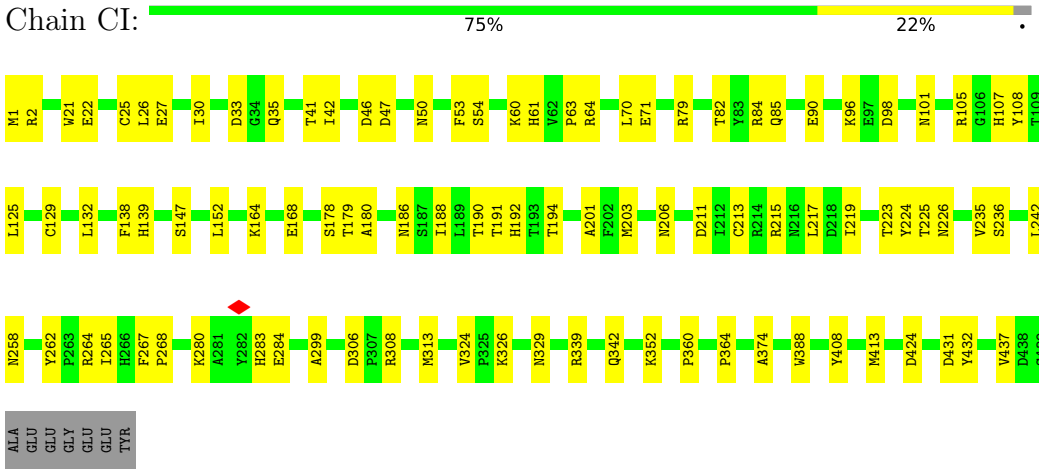
• Molecule 8: Tubulin alpha-3 chain

Chain CG:



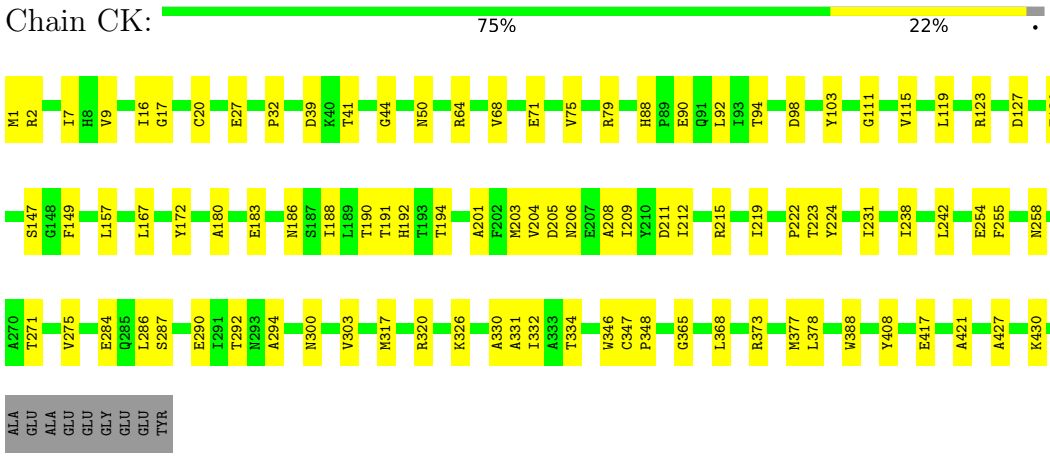
• Molecule 8: Tubulin alpha-3 chain

Chain CI:



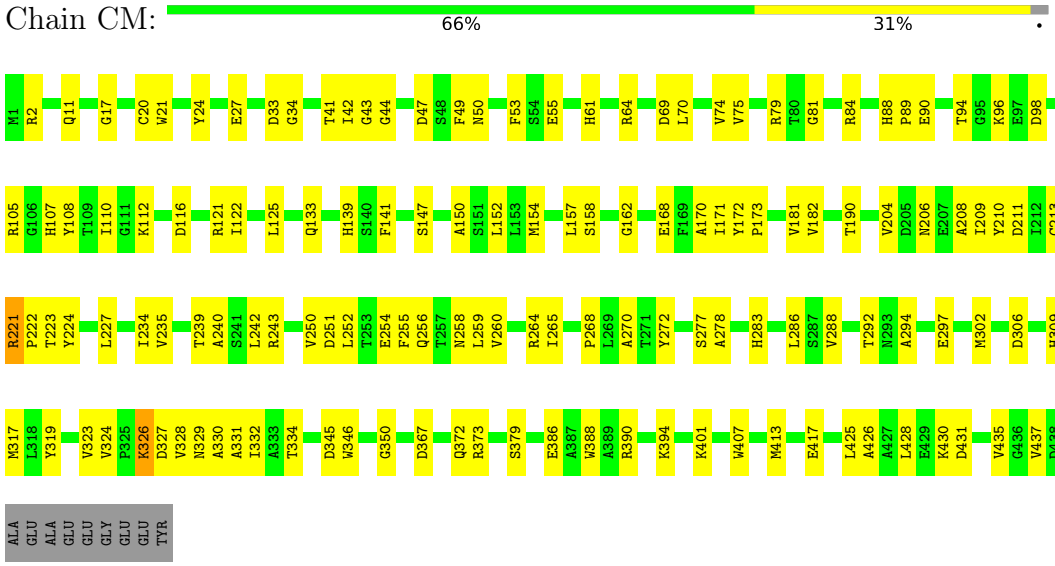
• Molecule 8: Tubulin alpha-3 chain

Chain CK:



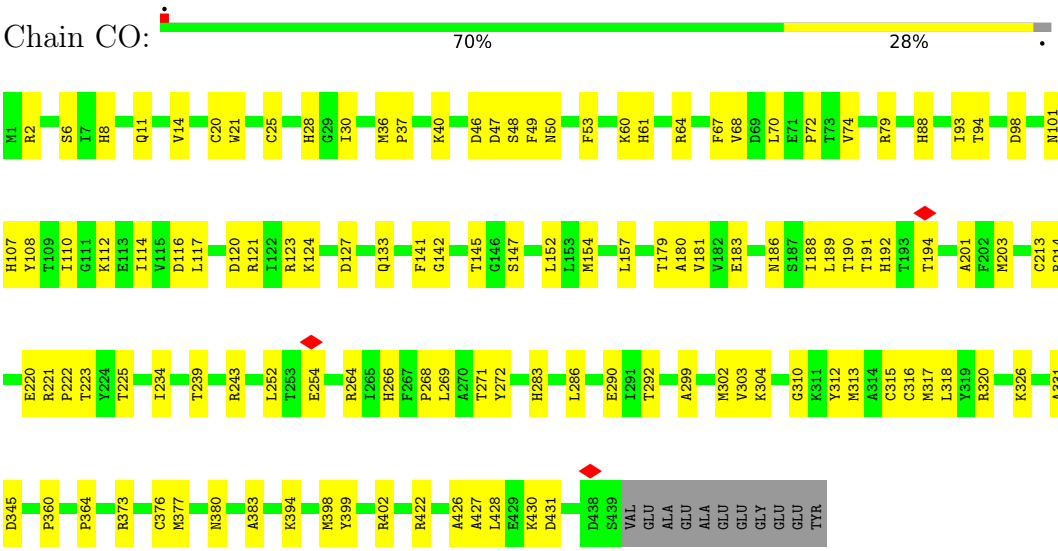
• Molecule 8: Tubulin alpha-3 chain

Chain CM:



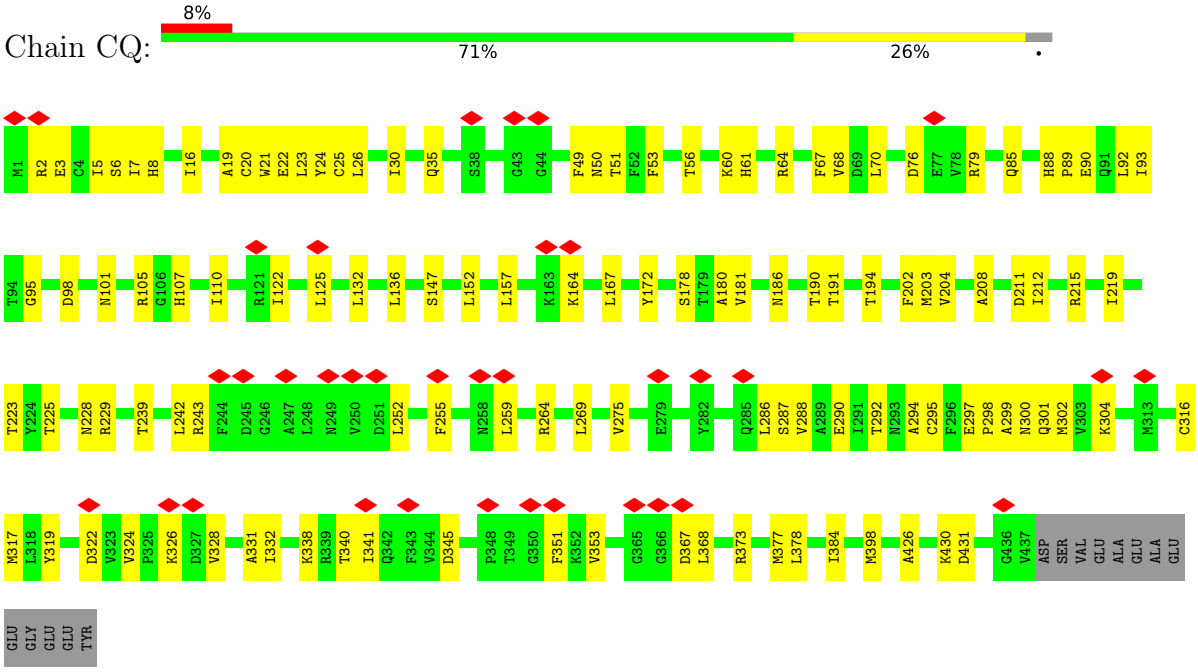
• Molecule 8: Tubulin alpha-3 chain

Chain CO:



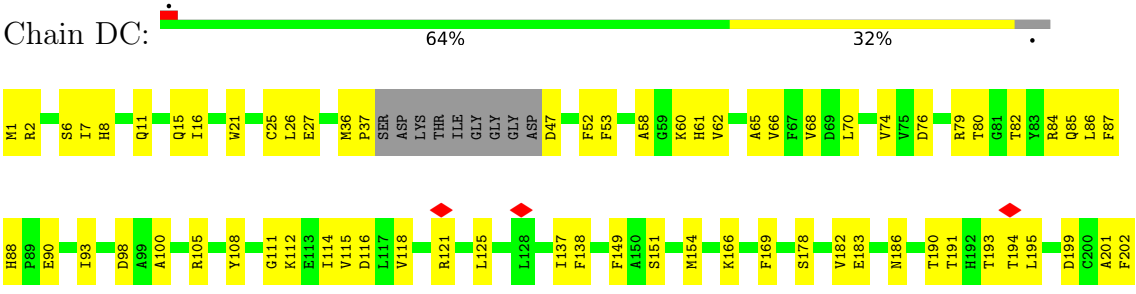
• Molecule 8: Tubulin alpha-3 chain

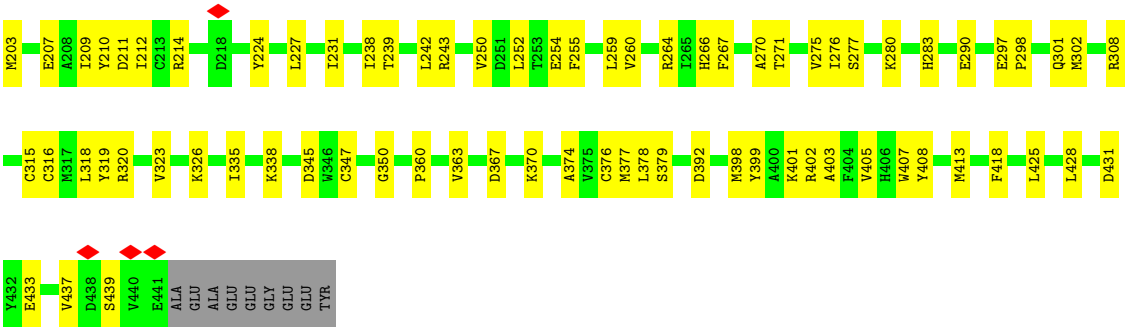
Chain CQ:



• Molecule 8: Tubulin alpha-3 chain

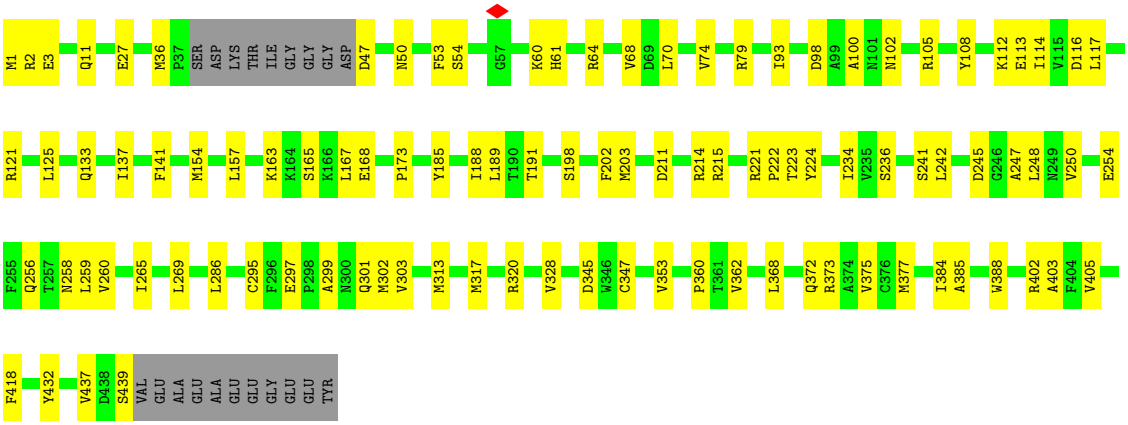
Chain DC:





• Molecule 8: Tubulin alpha-3 chain

Chain DE:

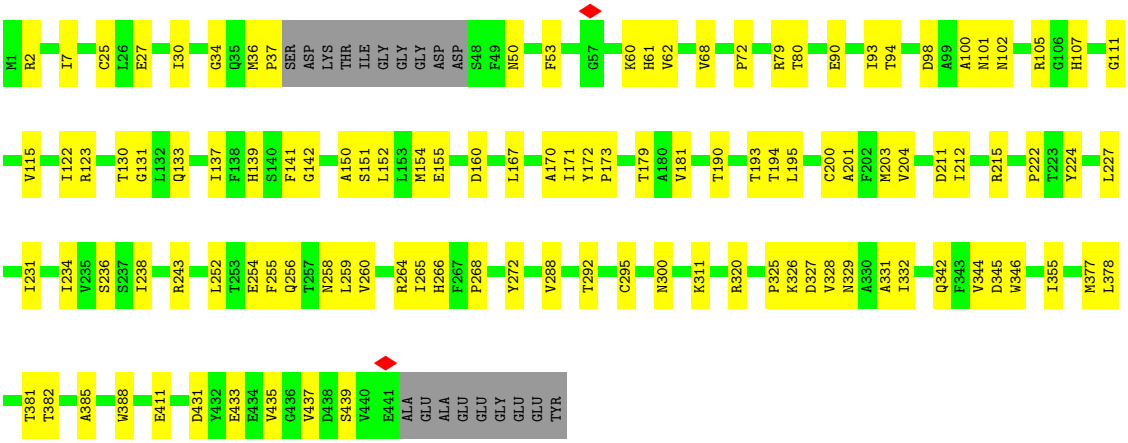


• Molecule 8: Tubulin alpha-3 chain

Chain DG:

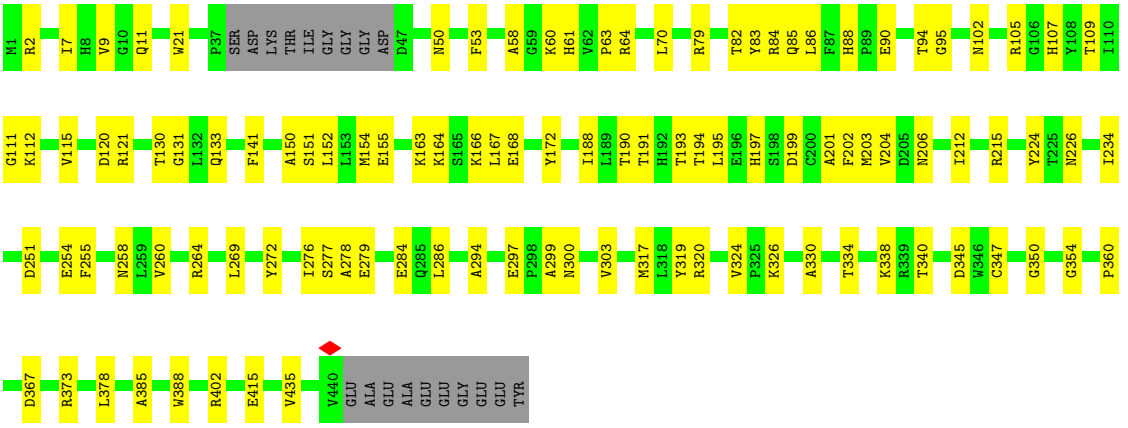
• Molecule 8: Tubulin alpha-3 chain

Chain DI:



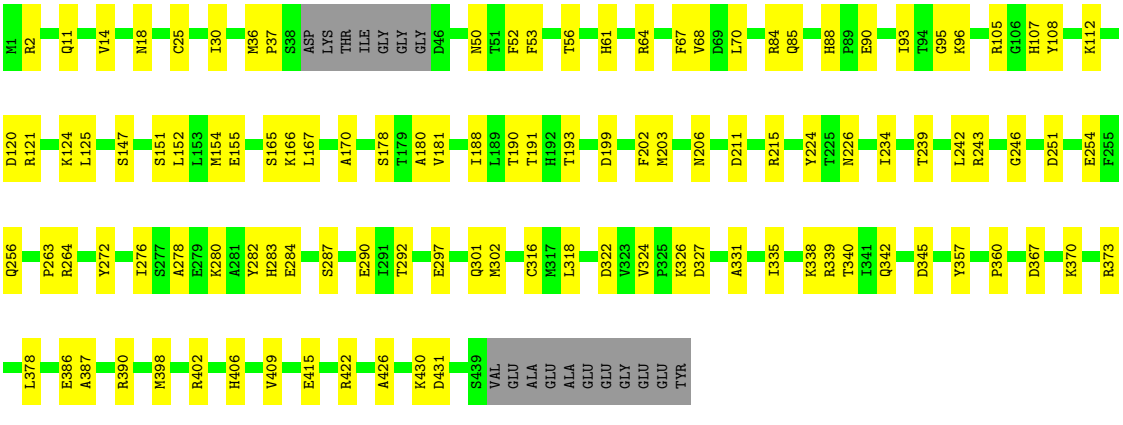
• Molecule 8: Tubulin alpha-3 chain

Chain DK:



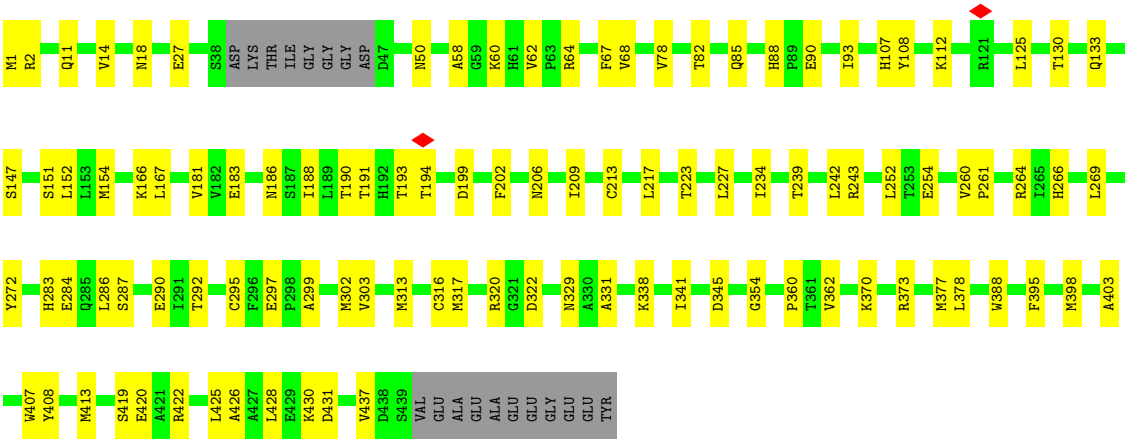
• Molecule 8: Tubulin alpha-3 chain

Chain DM:



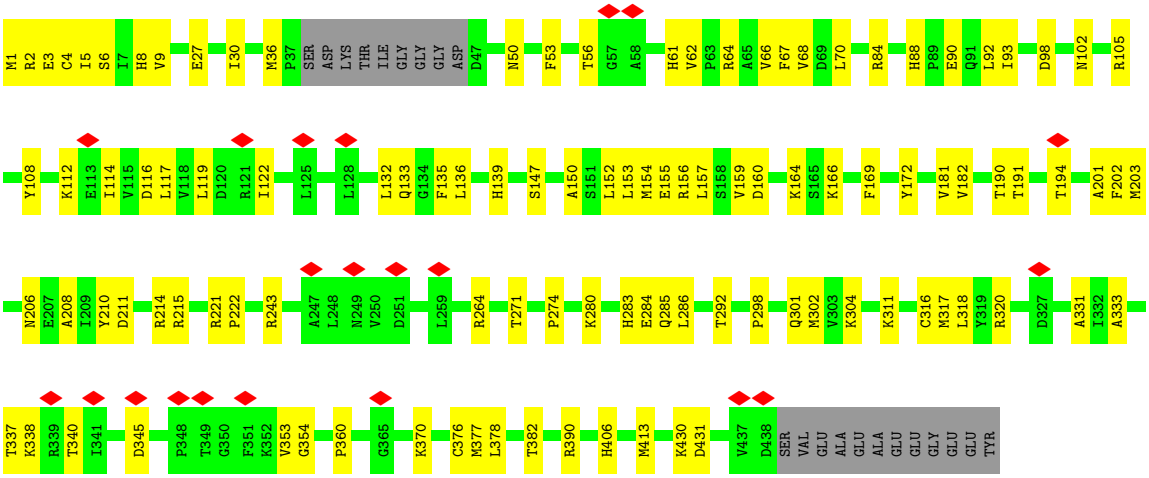
• Molecule 8: Tubulin alpha-3 chain

Chain DO:



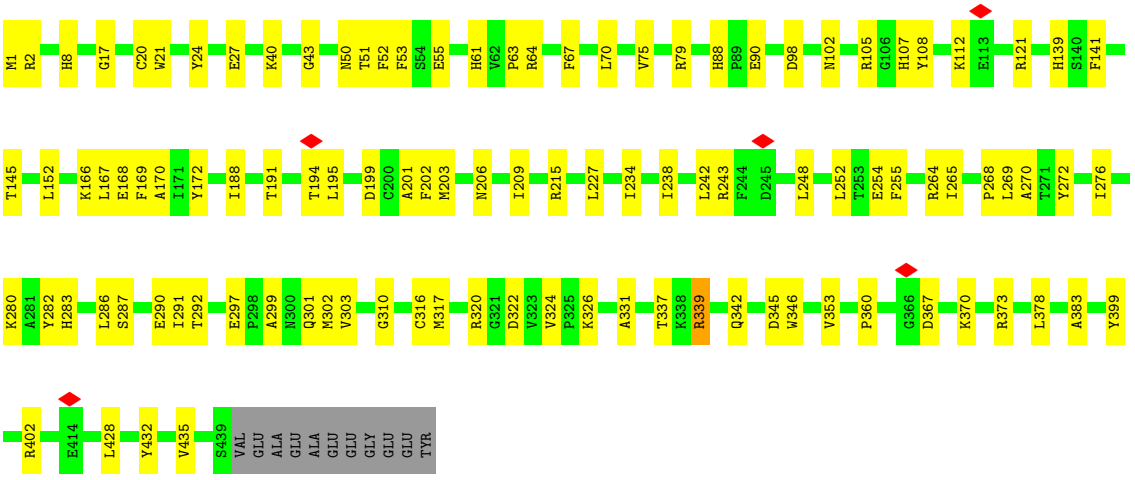
• Molecule 8: Tubulin alpha-3 chain

Chain DQ:



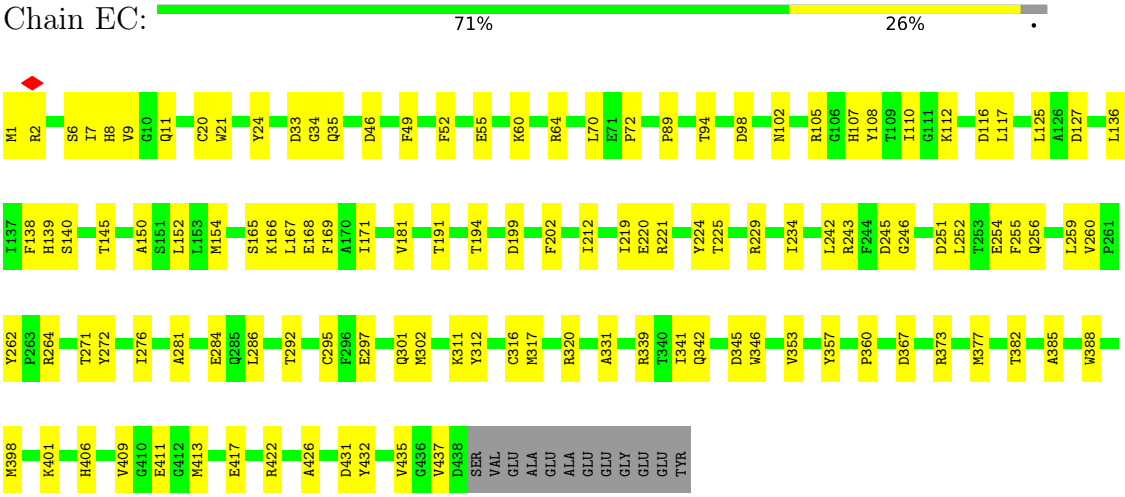
• Molecule 8: Tubulin alpha-3 chain

Chain EA:



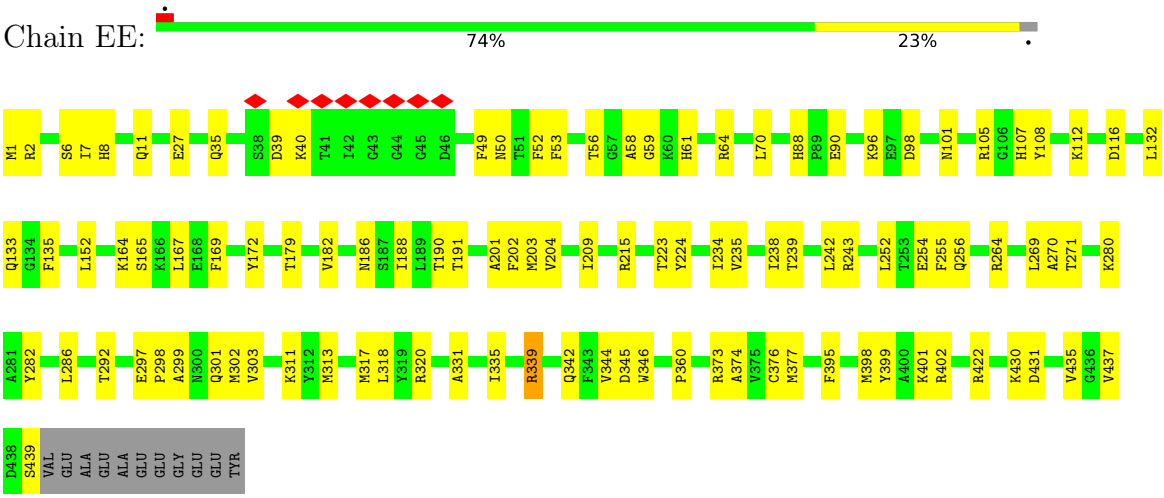
• Molecule 8: Tubulin alpha-3 chain

Chain EC:



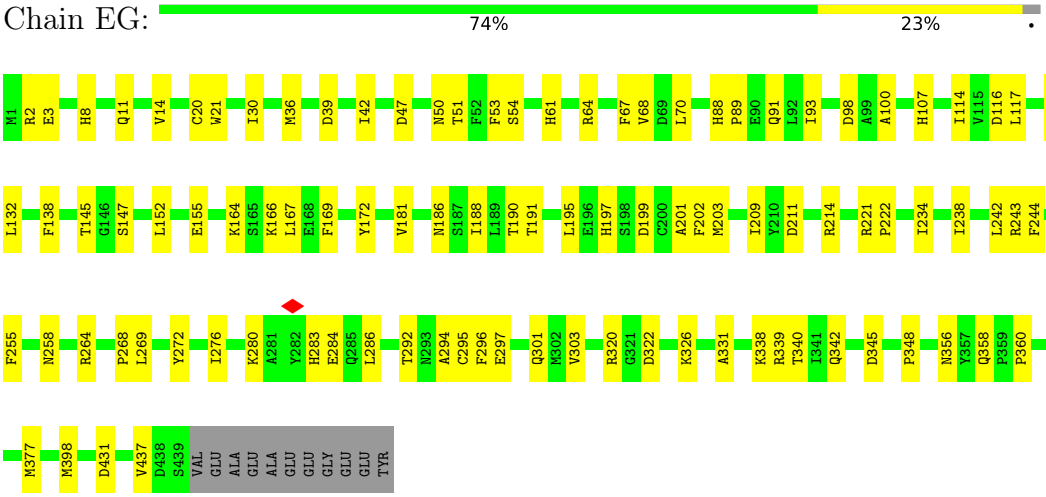
• Molecule 8: Tubulin alpha-3 chain

Chain EE:



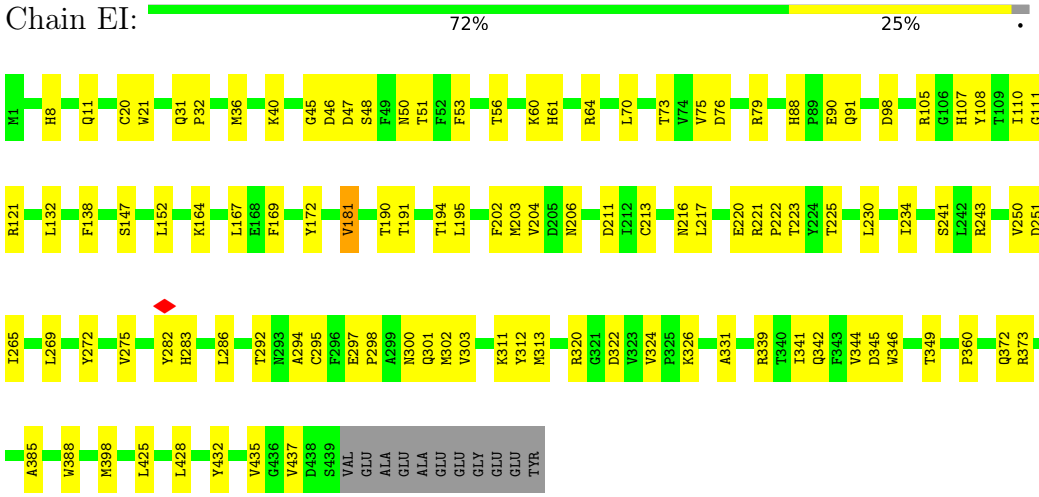
• Molecule 8: Tubulin alpha-3 chain

Chain EG:



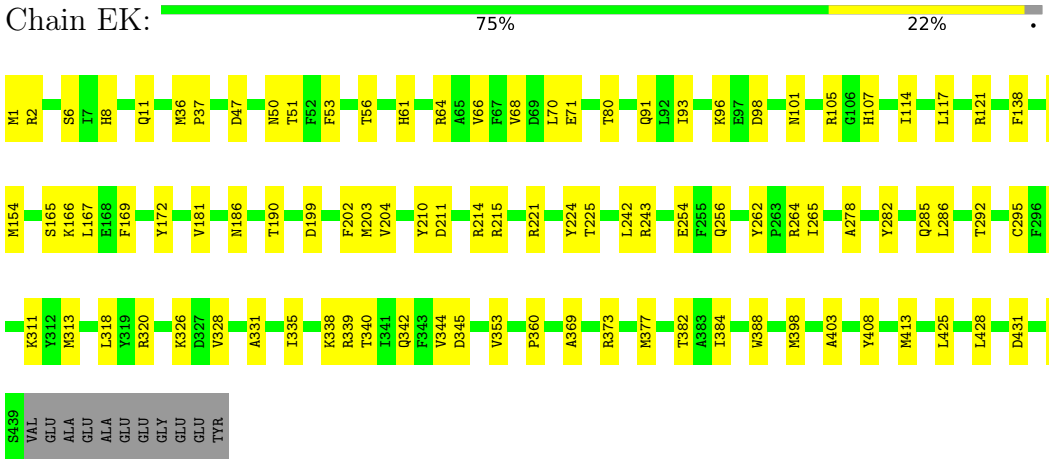
• Molecule 8: Tubulin alpha-3 chain

Chain EI:



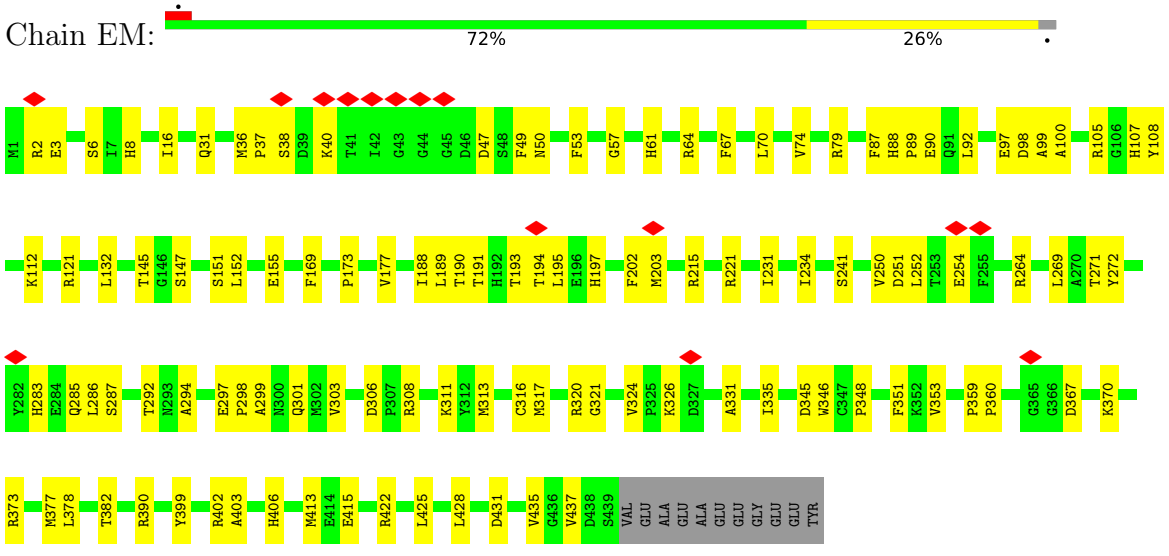
• Molecule 8: Tubulin alpha-3 chain

Chain EK:



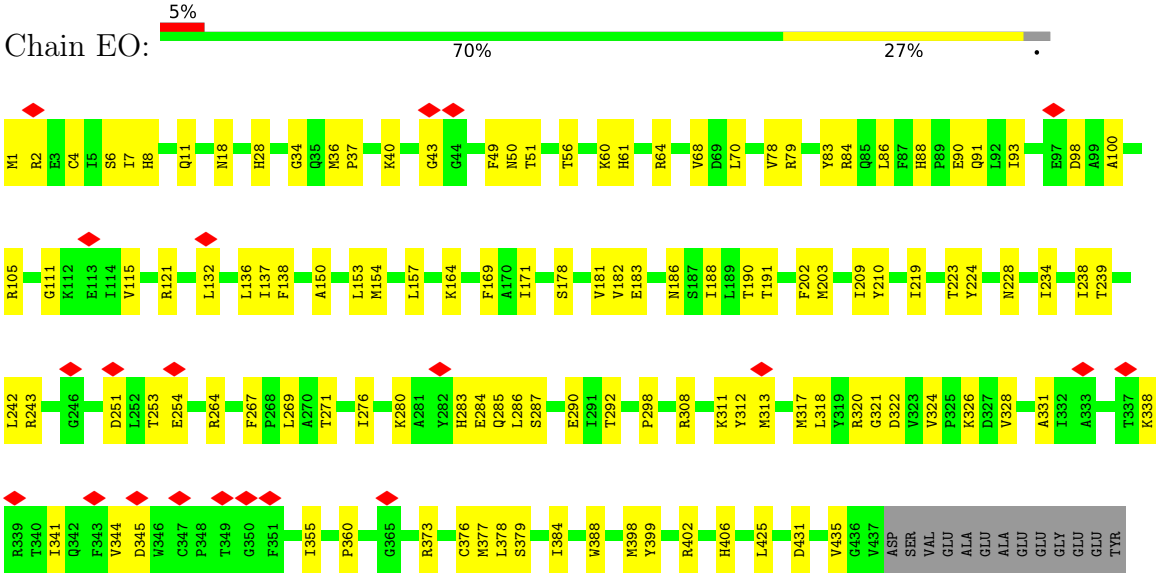
• Molecule 8: Tubulin alpha-3 chain

Chain EM:



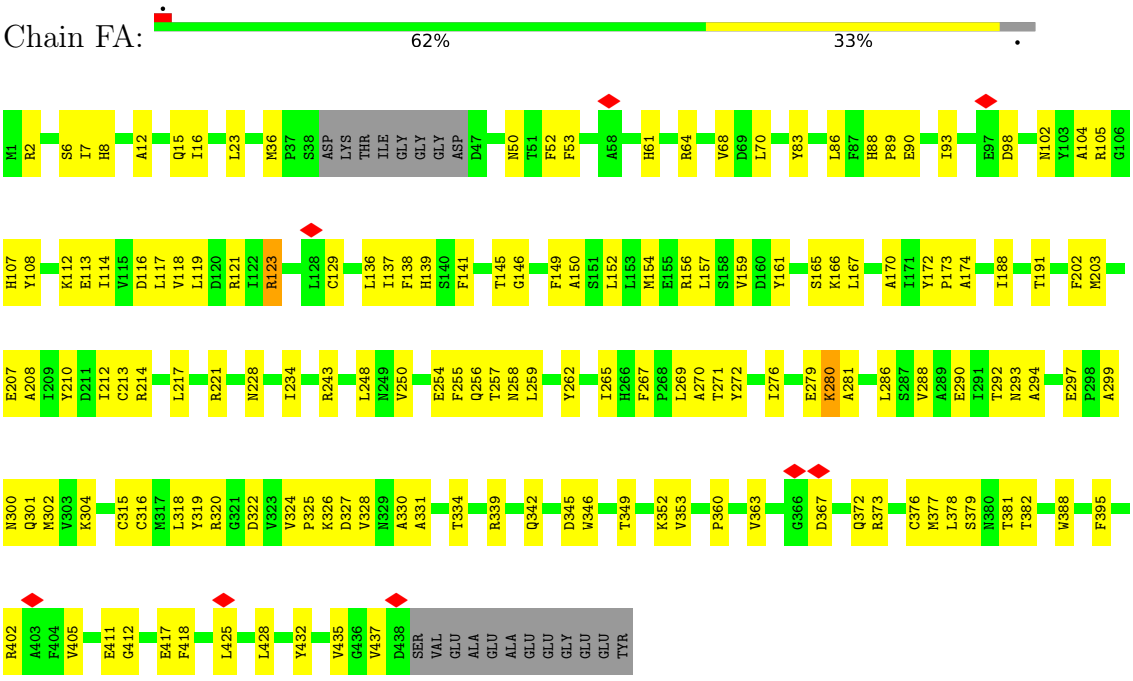
• Molecule 8: Tubulin alpha-3 chain

Chain EO:



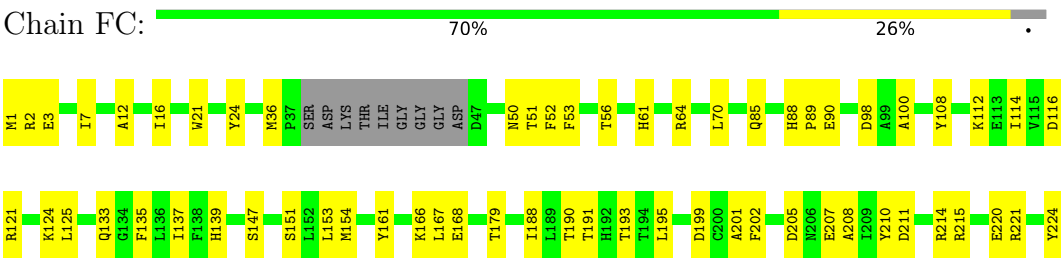
• Molecule 8: Tubulin alpha-3 chain

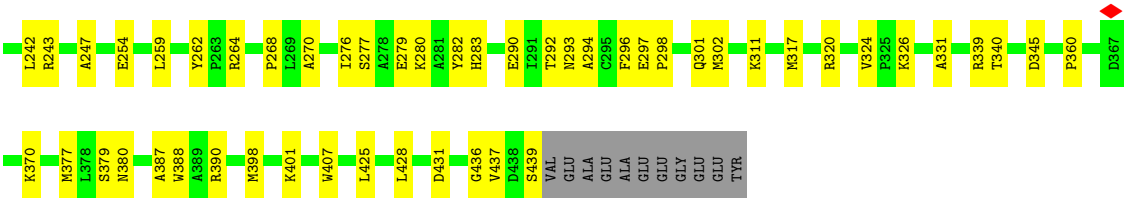
Chain FA:



• Molecule 8: Tubulin alpha-3 chain

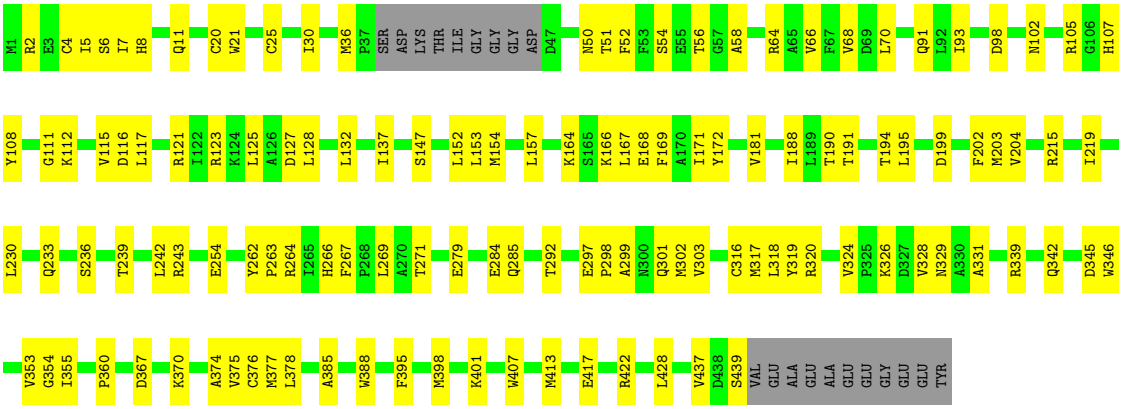
Chain FC:





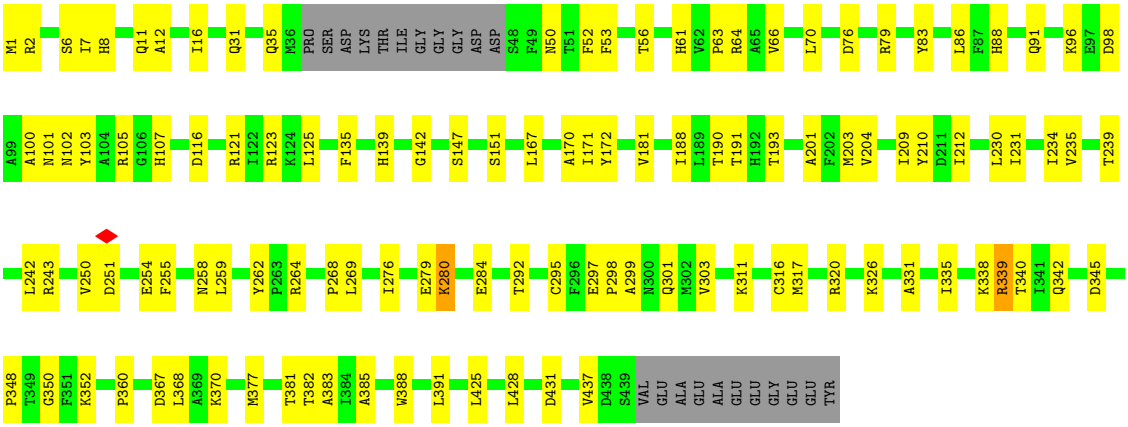
• Molecule 8: Tubulin alpha-3 chain

Chain FE:



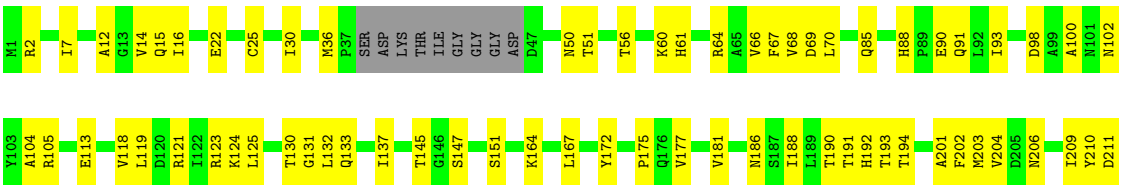
• Molecule 8: Tubulin alpha-3 chain

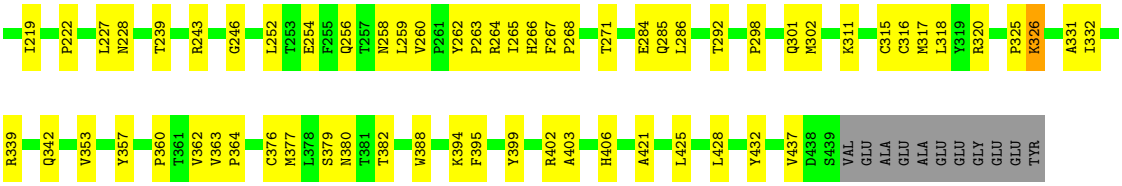
Chain FG:



• Molecule 8: Tubulin alpha-3 chain

Chain FI:





• Molecule 8: Tubulin alpha-3 chain

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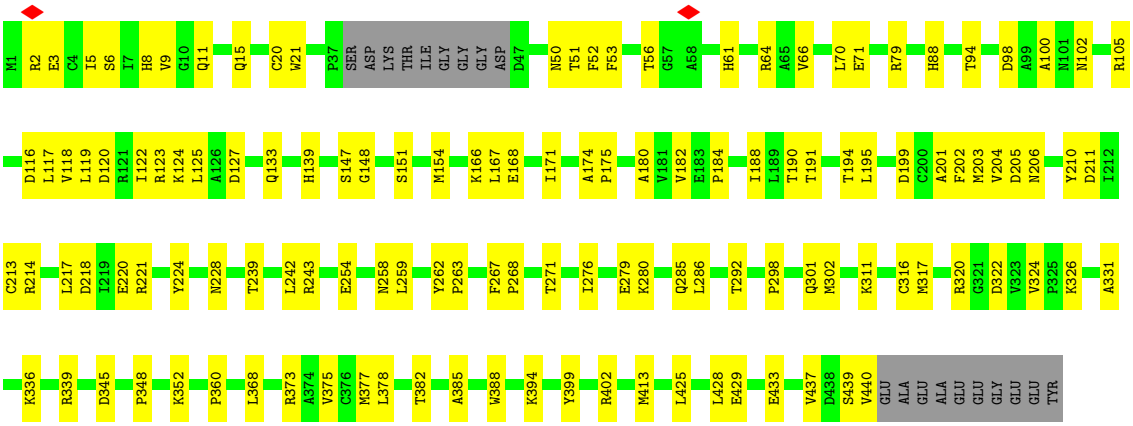
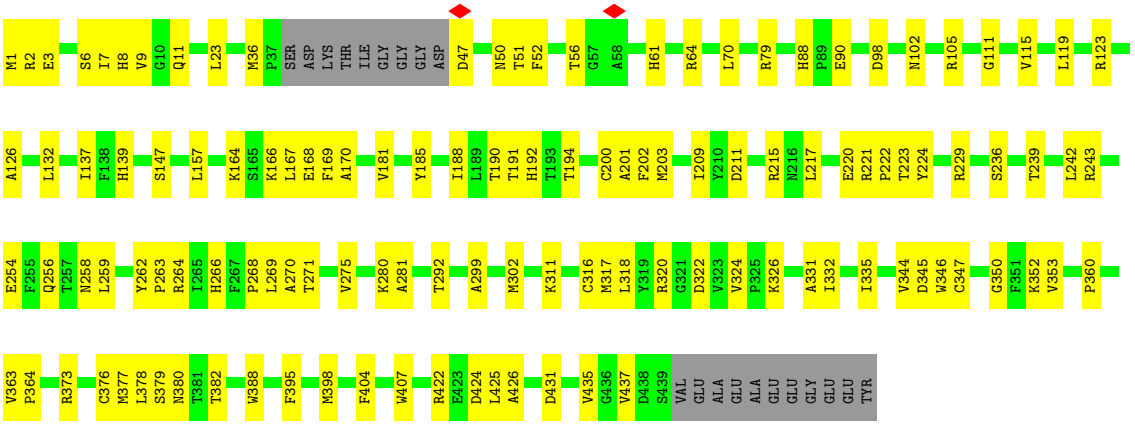


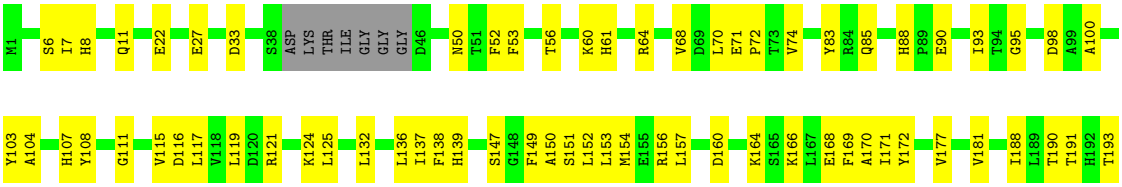
• Molecule 8: Tubulin alpha-3 chain

Chain FM:



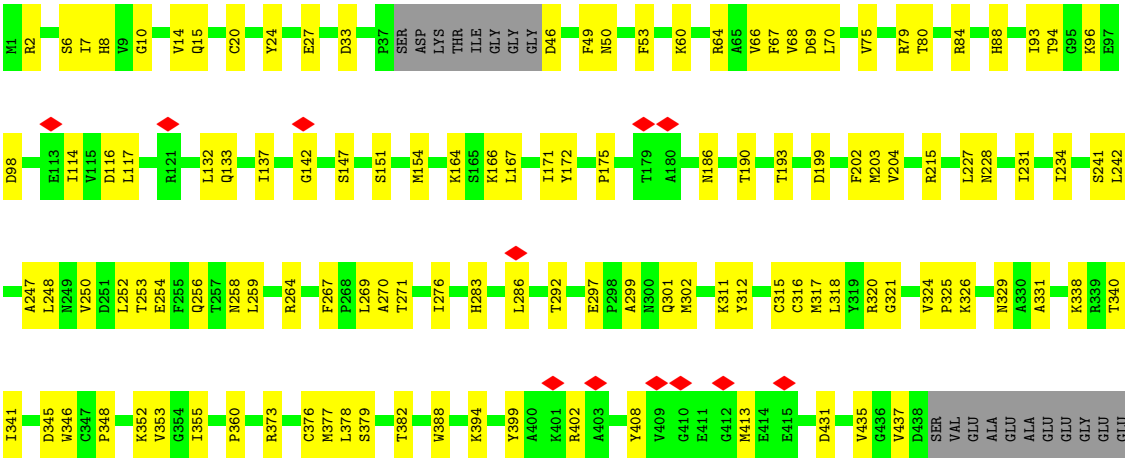
• Molecule 8: Tubulin alpha-3 chain

Chain FO:



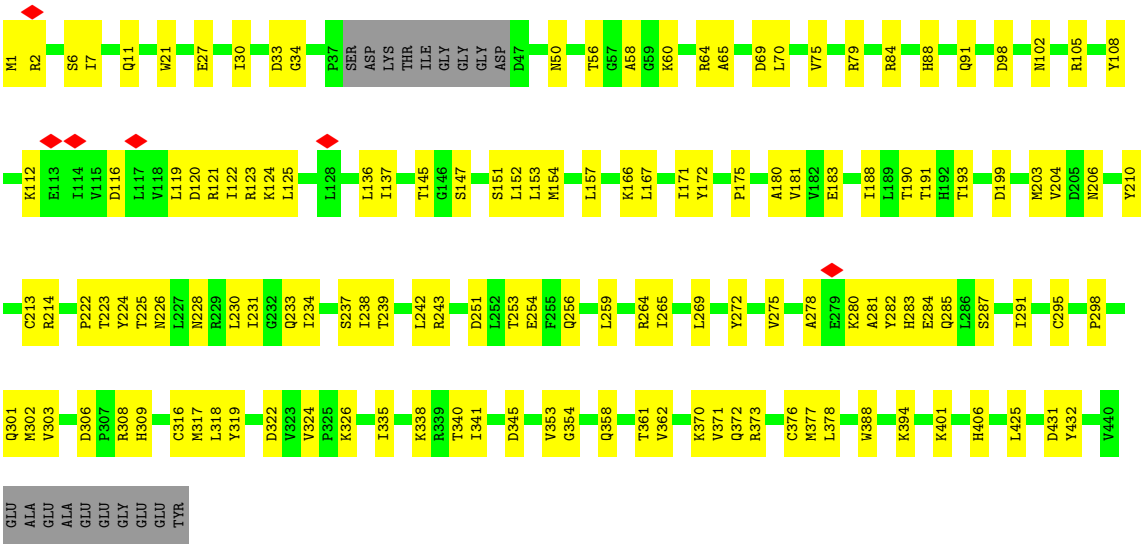
• Molecule 8: Tubulin alpha-3 chain

Chain GA:



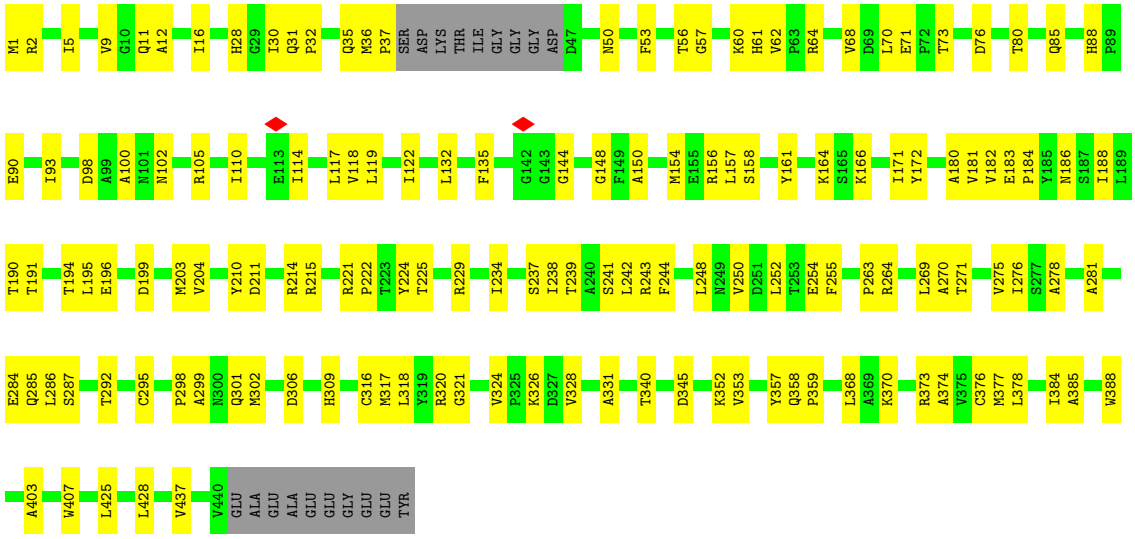
• Molecule 8: Tubulin alpha-3 chain

Chain GC:



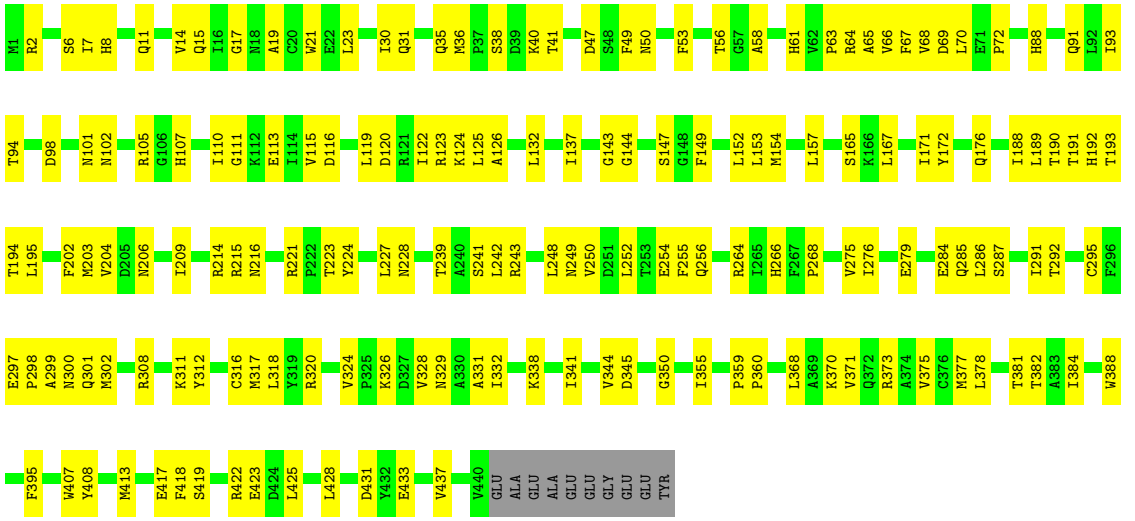
• Molecule 8: Tubulin alpha-3 chain

Chain GE:



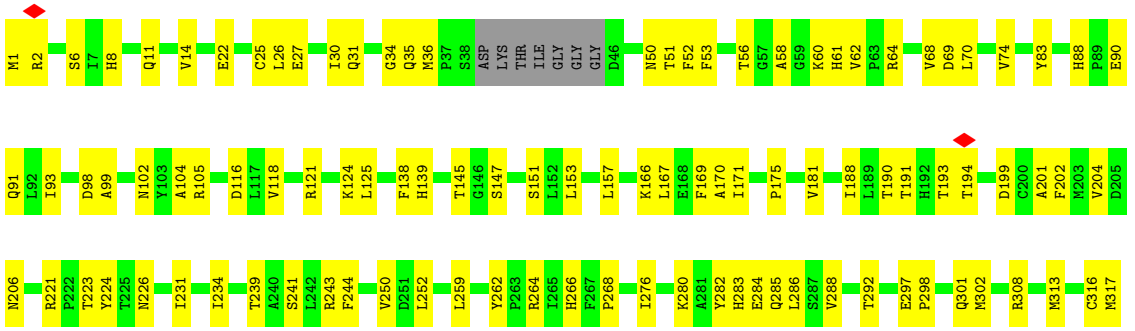
• Molecule 8: Tubulin alpha-3 chain

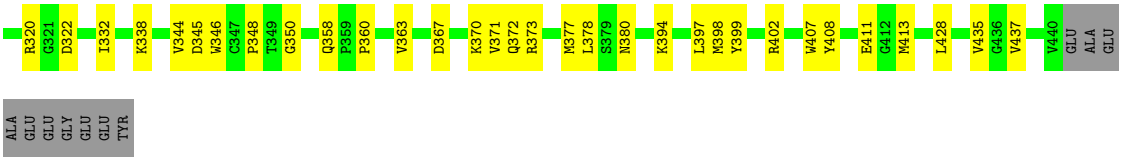
Chain GG:



• Molecule 8: Tubulin alpha-3 chain

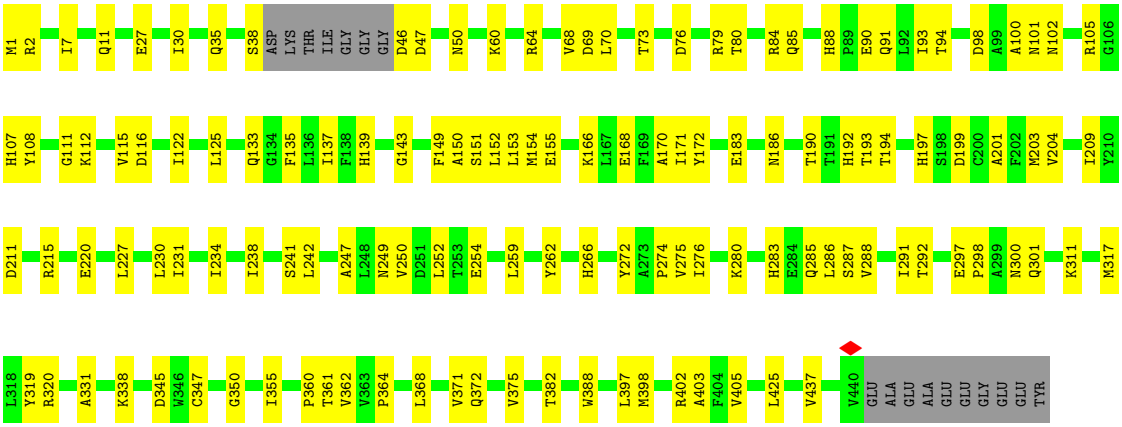
Chain GI:





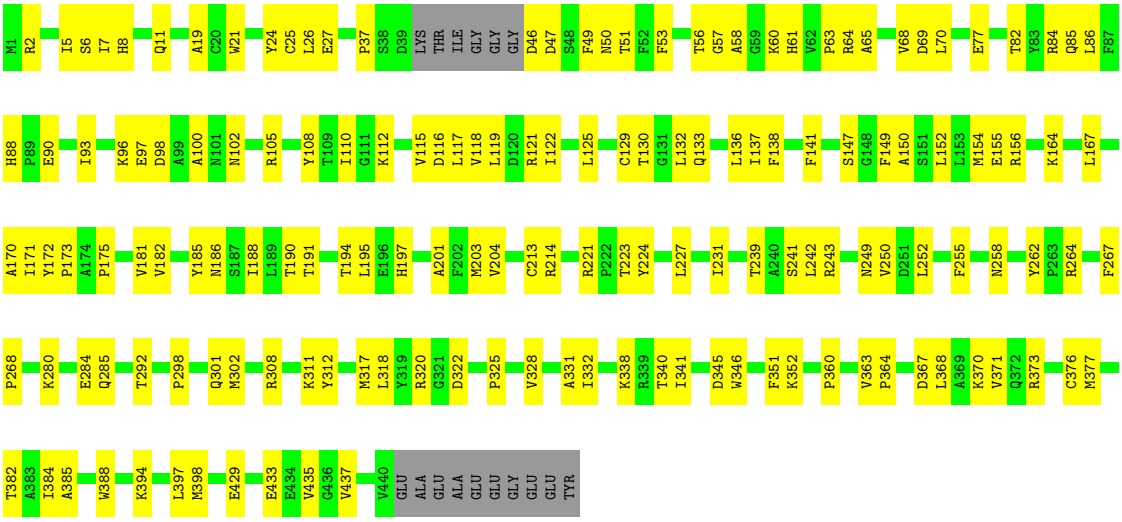
• Molecule 8: Tubulin alpha-3 chain

Chain GK:



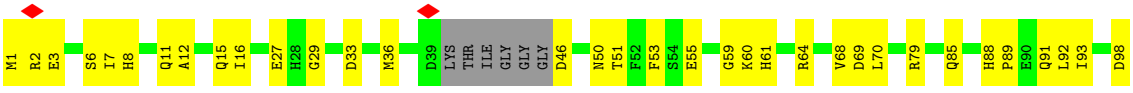
• Molecule 8: Tubulin alpha-3 chain

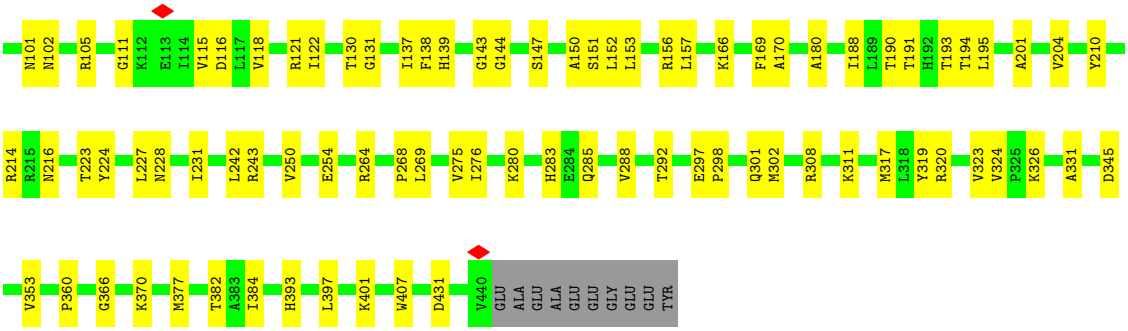
Chain GM:



• Molecule 8: Tubulin alpha-3 chain

Chain GO:





• Molecule 8: Tubulin alpha-3 chain

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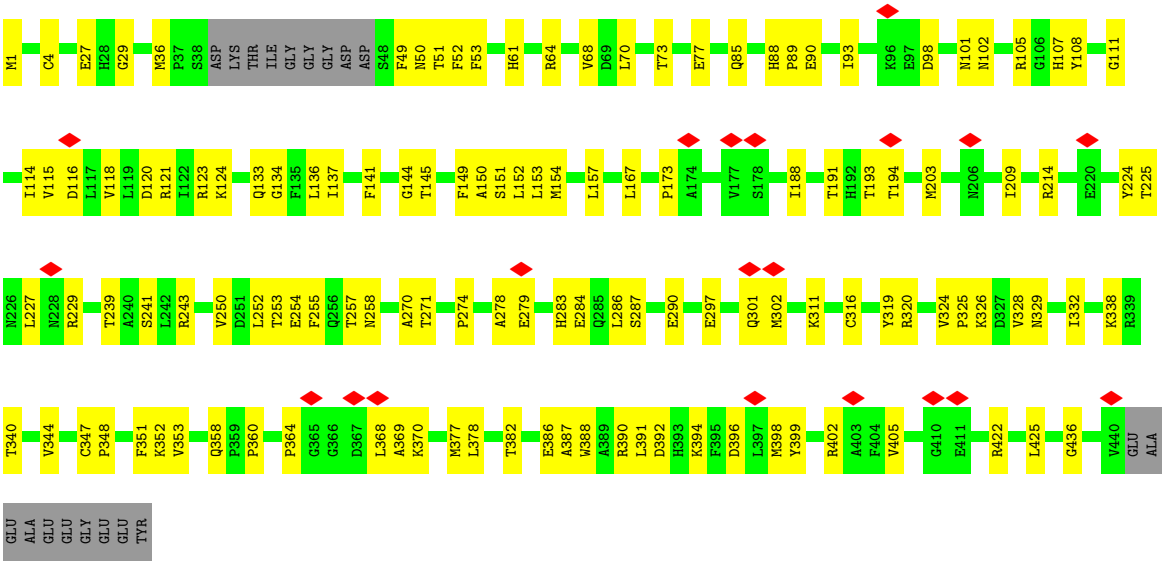
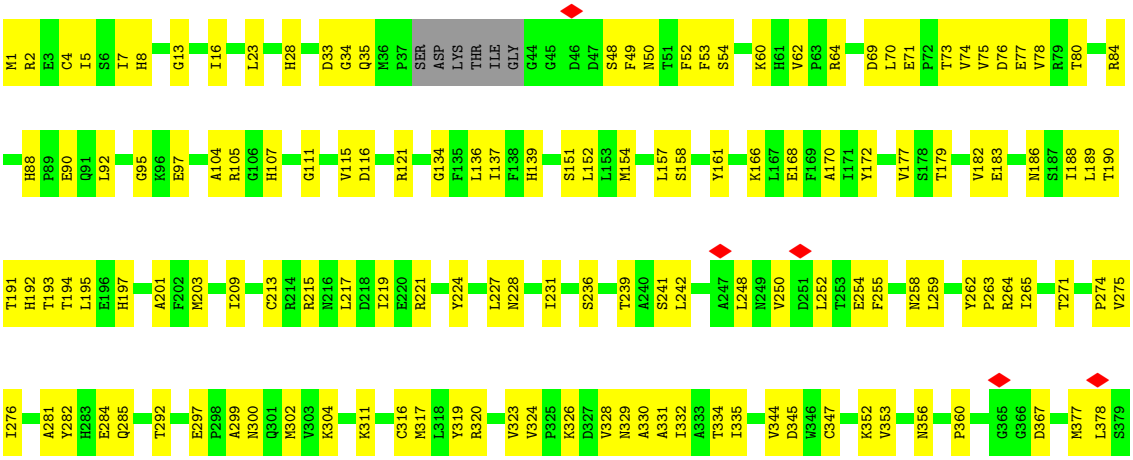
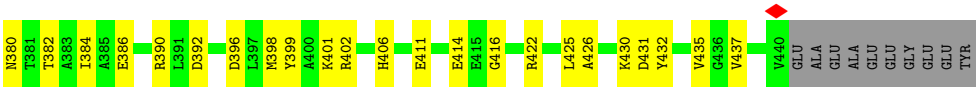


• Molecule 8: Tubulin alpha-3 chain

Chain HC:





• Molecule 8: Tubulin alpha-3 chain

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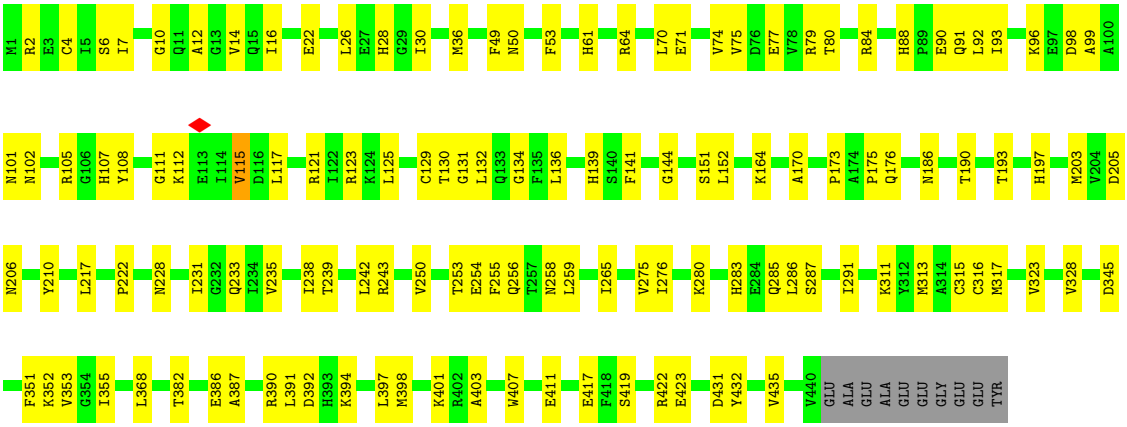

• Molecule 8: Tubulin alpha-3 chain

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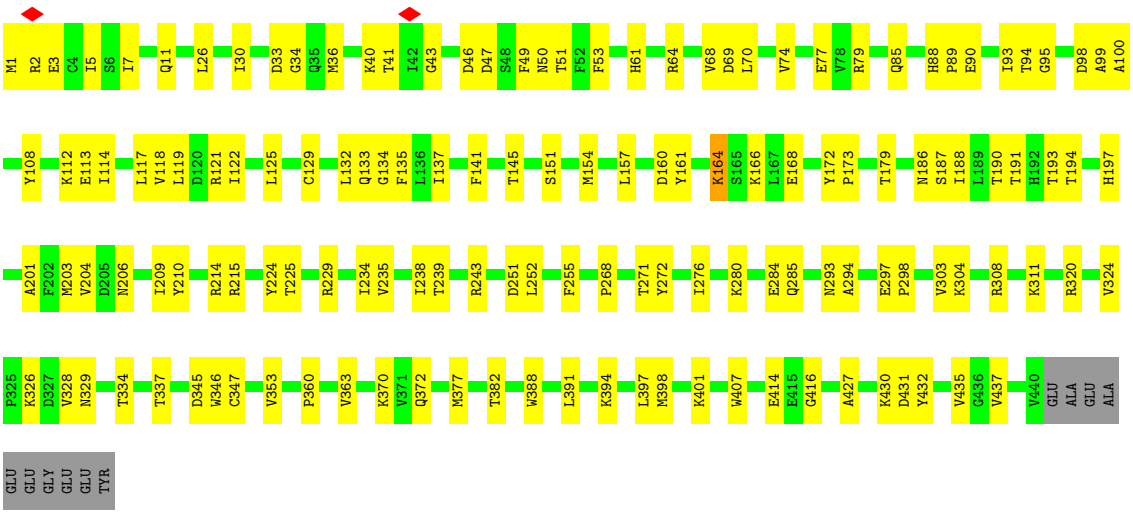
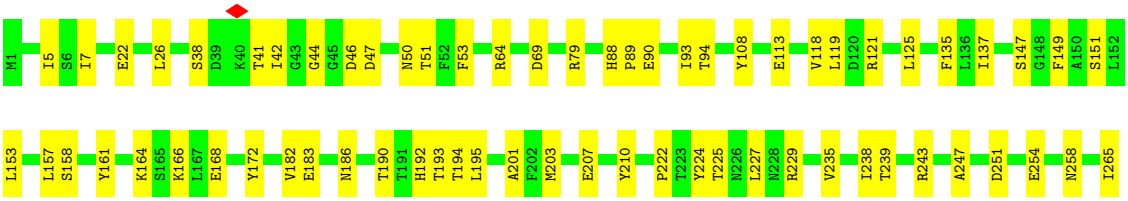
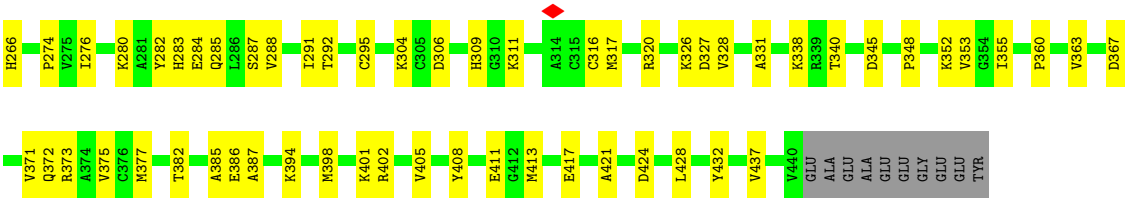


• Molecule 8: Tubulin alpha-3 chain

Chain HI:





• Molecule 8: Tubulin alpha-3 chain

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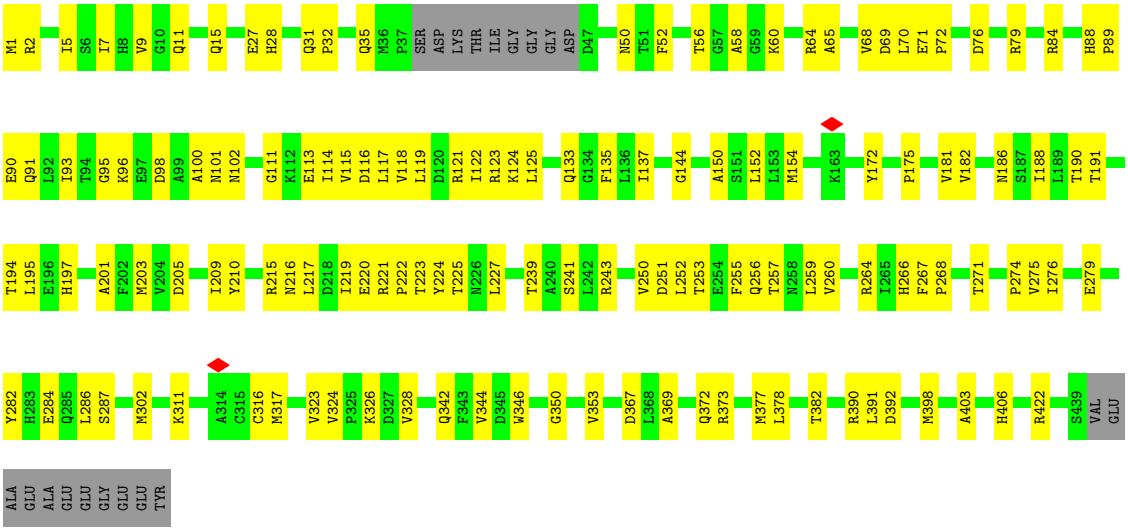

• Molecule 8: Tubulin alpha-3 chain

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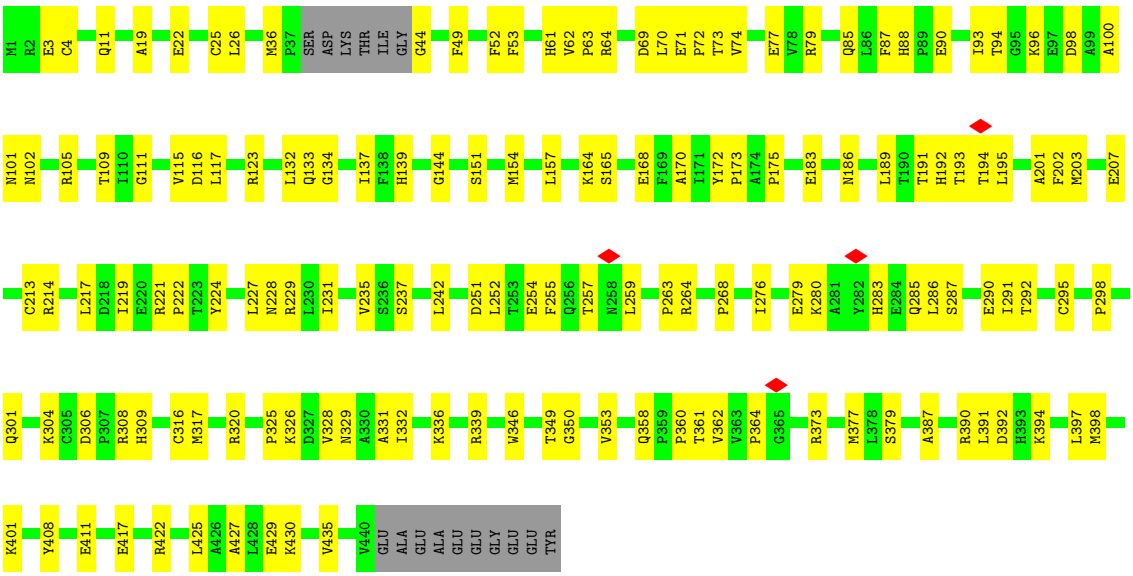
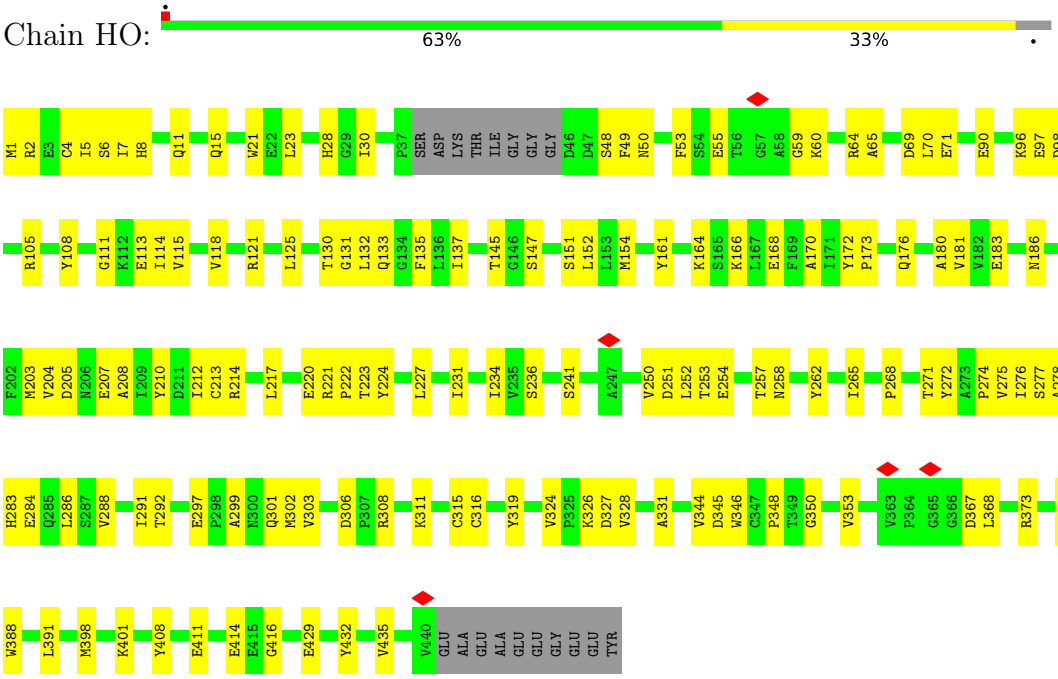


• Molecule 8: Tubulin alpha-3 chain

Chain HO:



• Molecule 8: Tubulin alpha-3 chain

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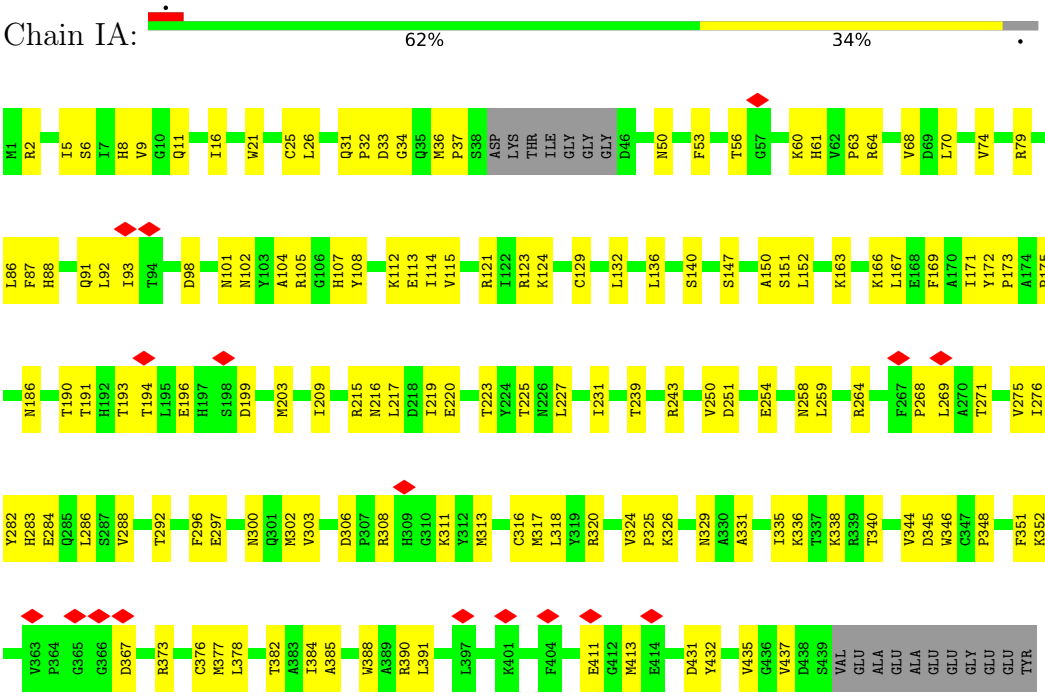
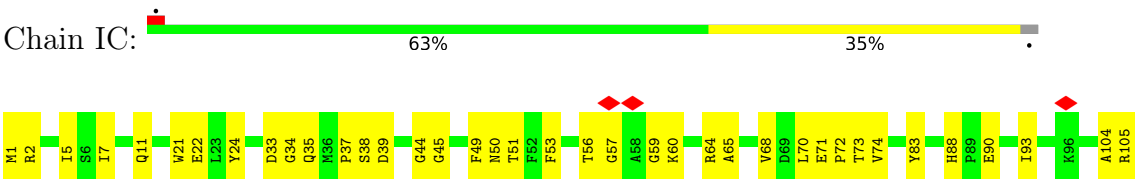
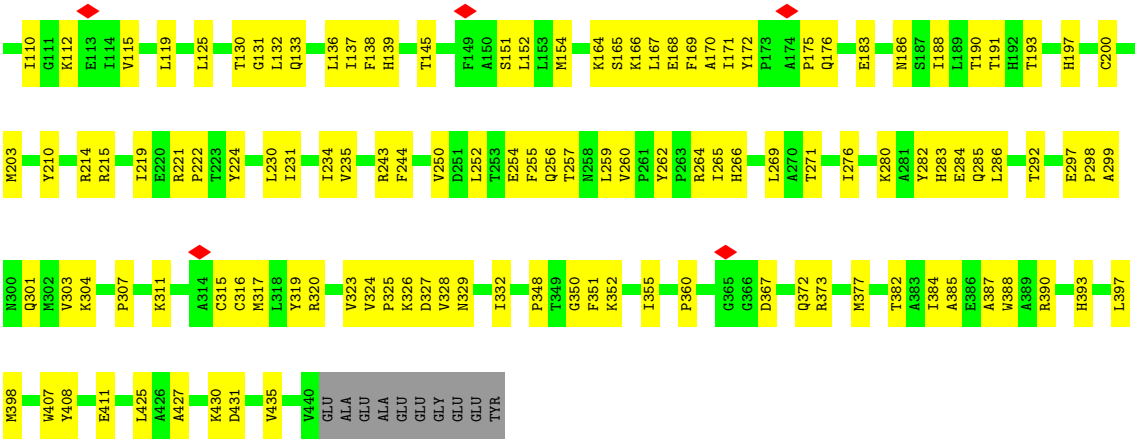


• Molecule 8: Tubulin alpha-3 chain

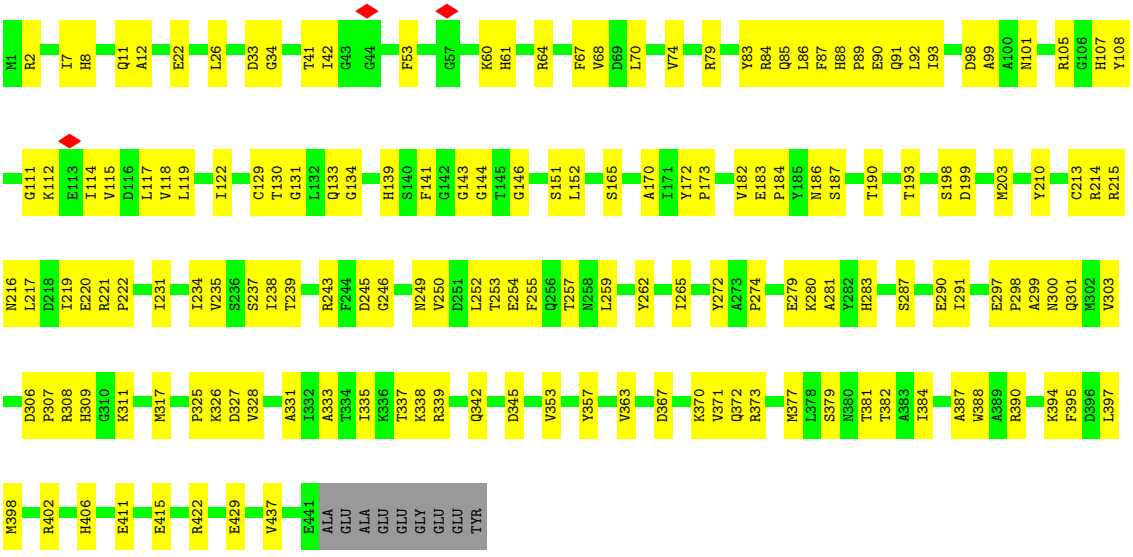
Chain IC:





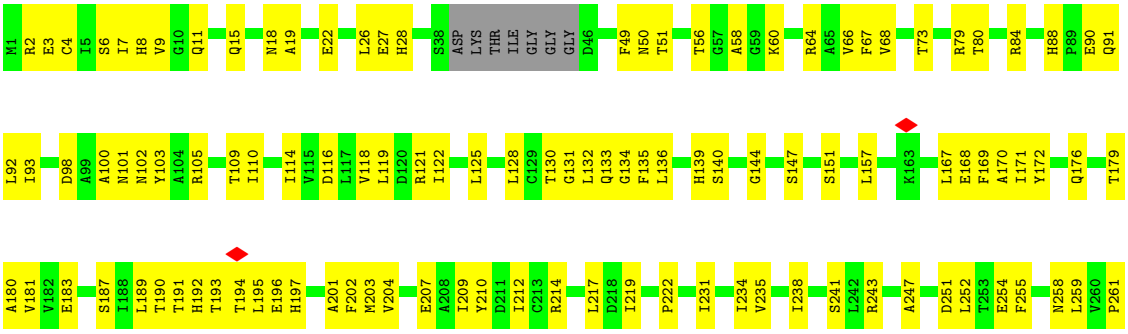
• Molecule 8: Tubulin alpha-3 chain

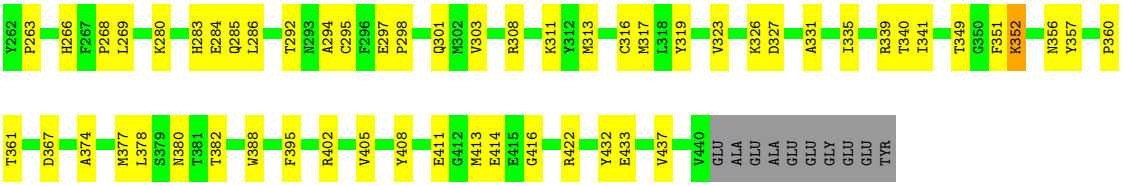
Chain IE:



• Molecule 8: Tubulin alpha-3 chain

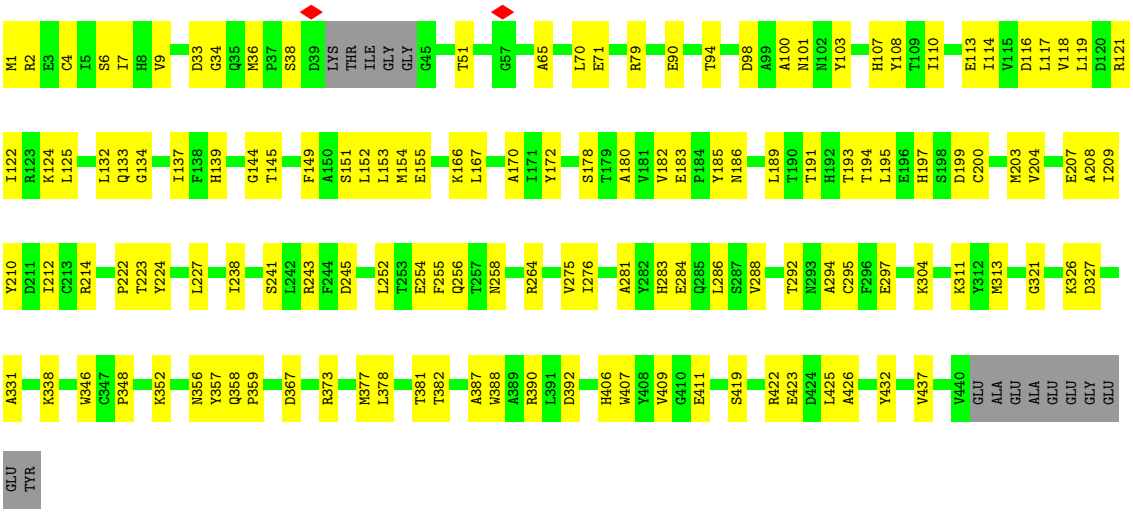
Chain IG:





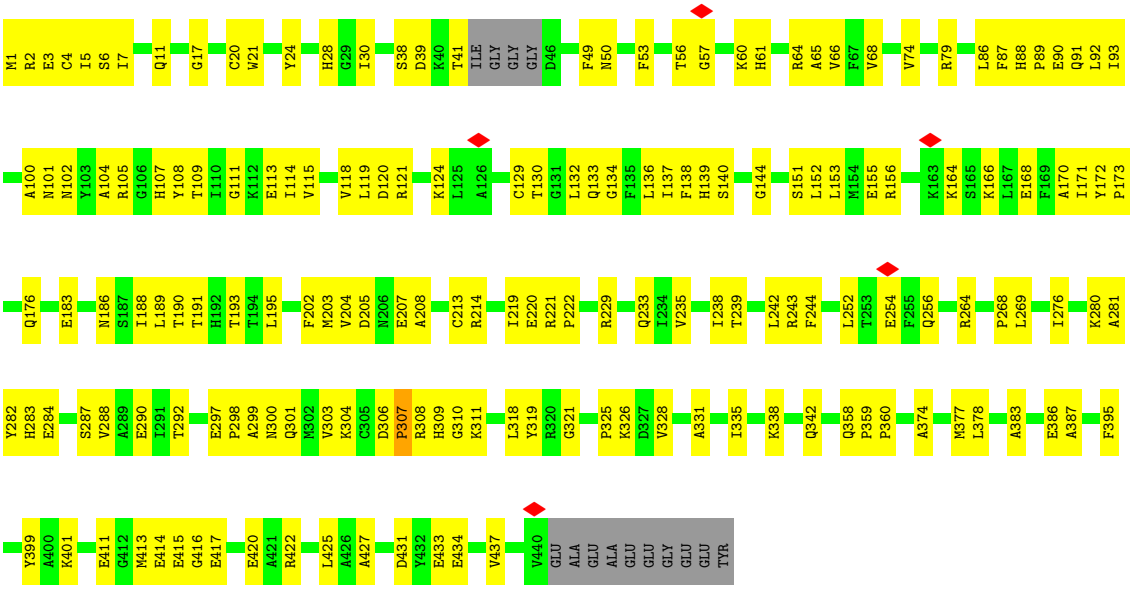
• Molecule 8: Tubulin alpha-3 chain

Chain II:



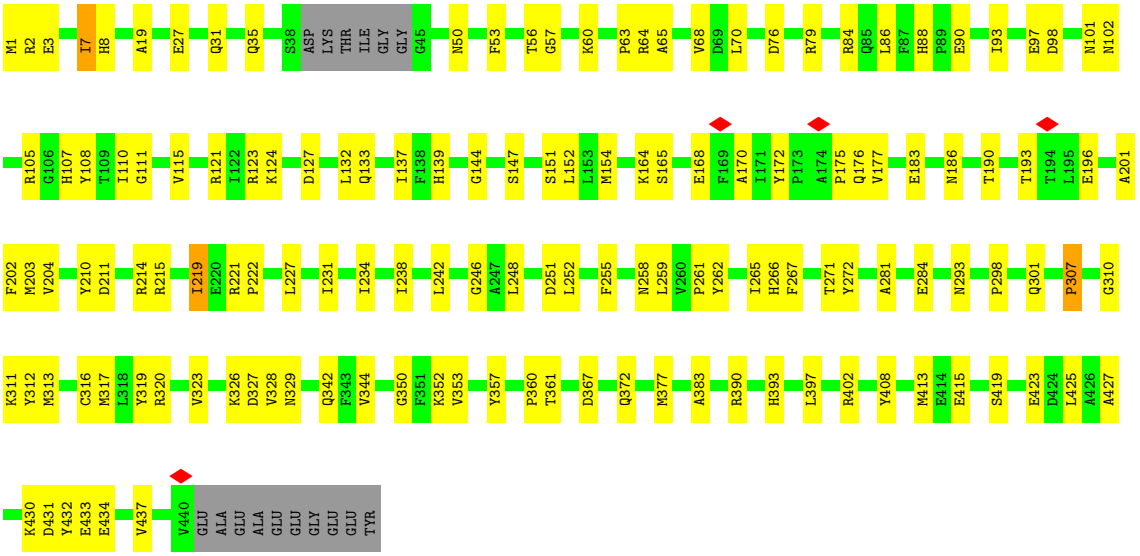
• Molecule 8: Tubulin alpha-3 chain

Chain IK:



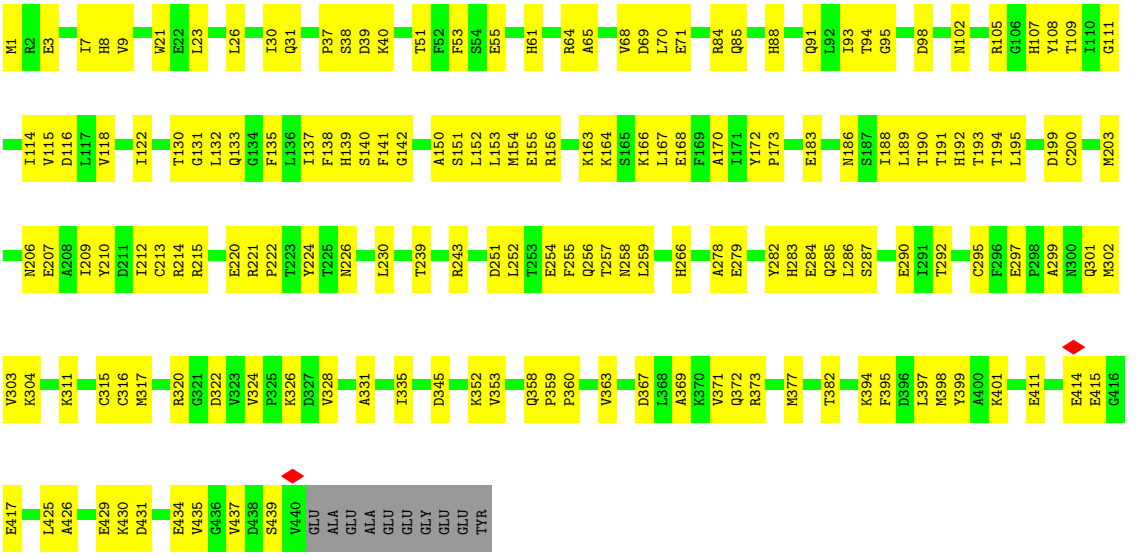
• Molecule 8: Tubulin alpha-3 chain

Chain IM:



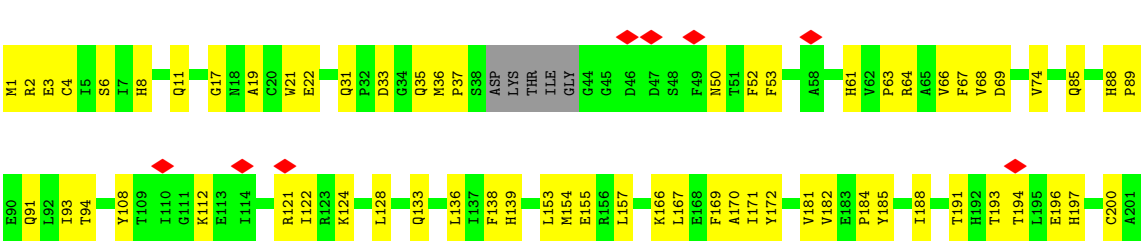
• Molecule 8: Tubulin alpha-3 chain

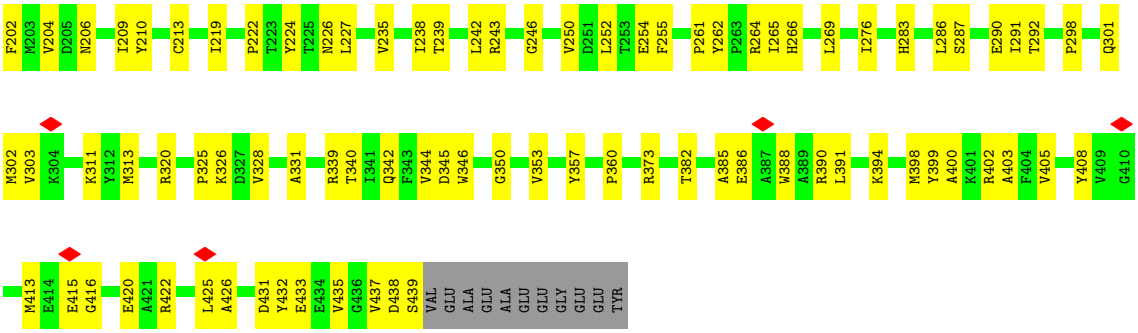
Chain IO:



• Molecule 8: Tubulin alpha-3 chain

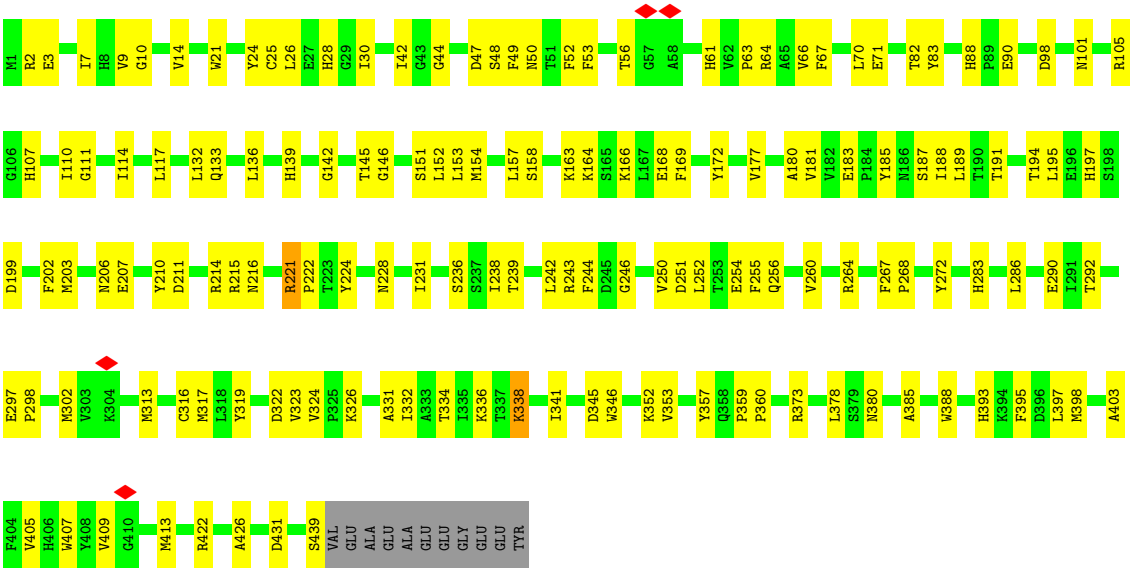
Chain JC:





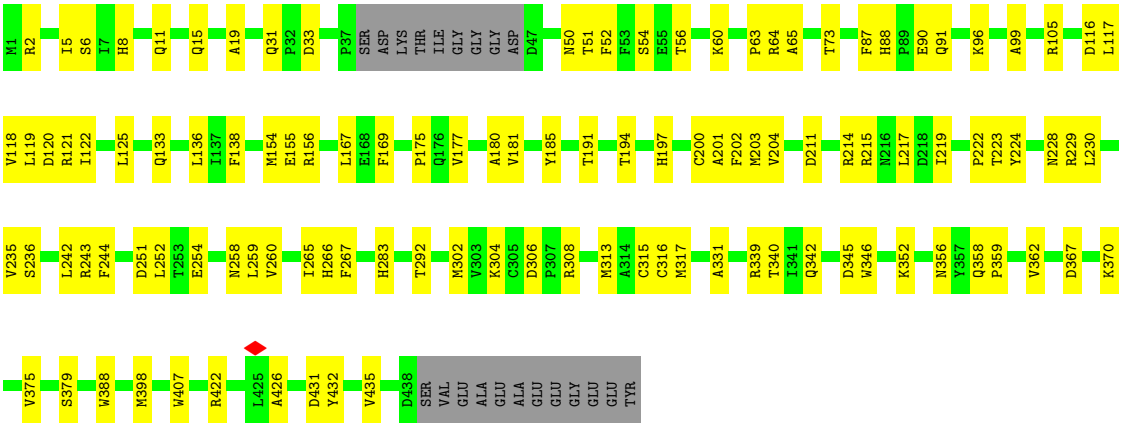
• Molecule 8: Tubulin alpha-3 chain

Chain JE:



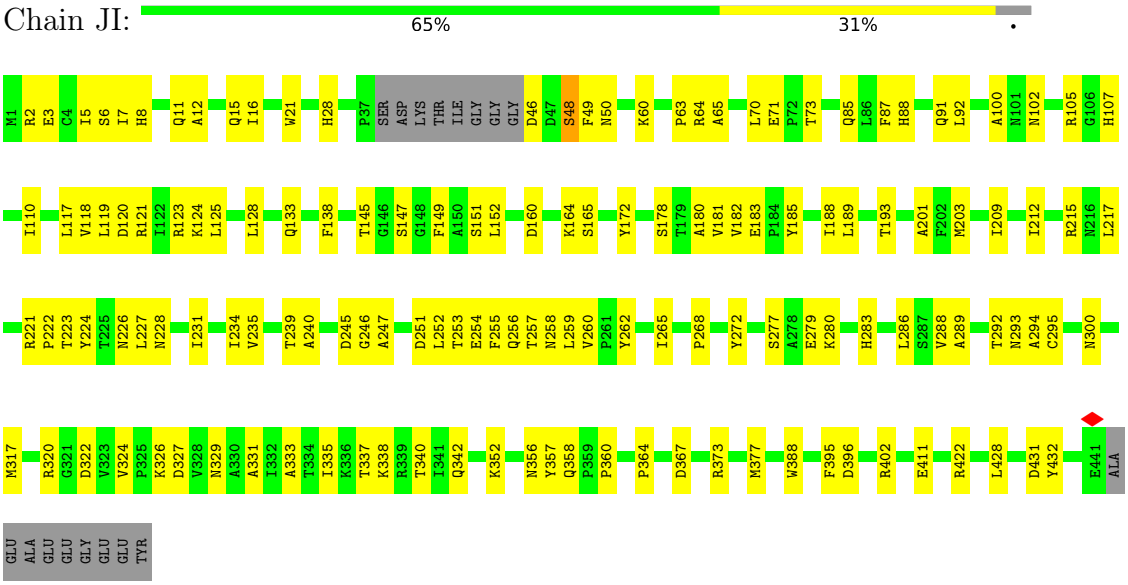
• Molecule 8: Tubulin alpha-3 chain

Chain JG:



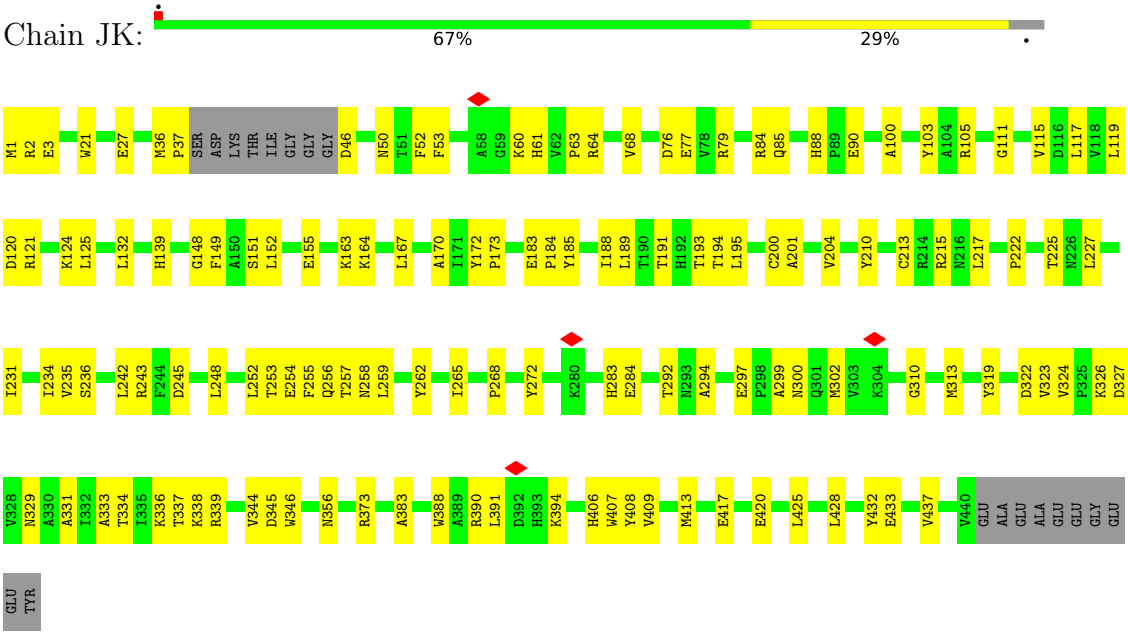
• Molecule 8: Tubulin alpha-3 chain

Chain JI:



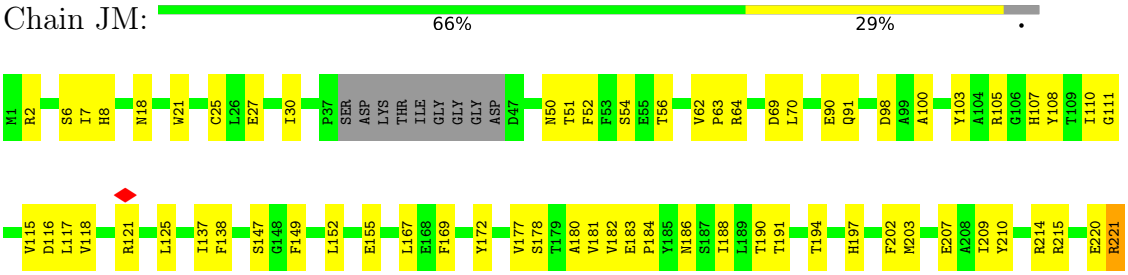
• Molecule 8: Tubulin alpha-3 chain

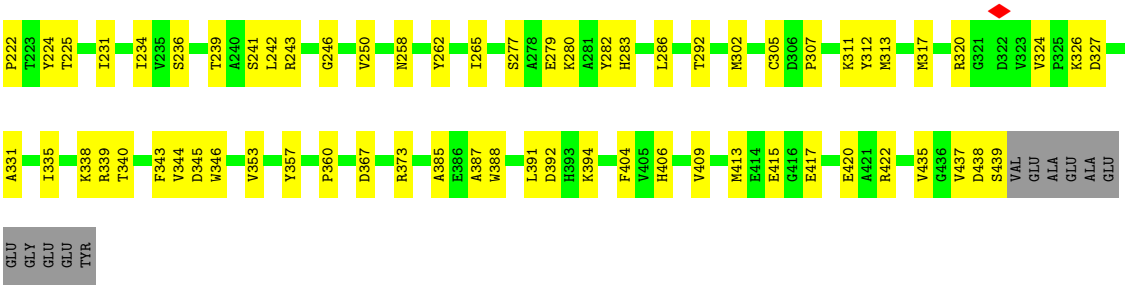
Chain JK:



• Molecule 8: Tubulin alpha-3 chain

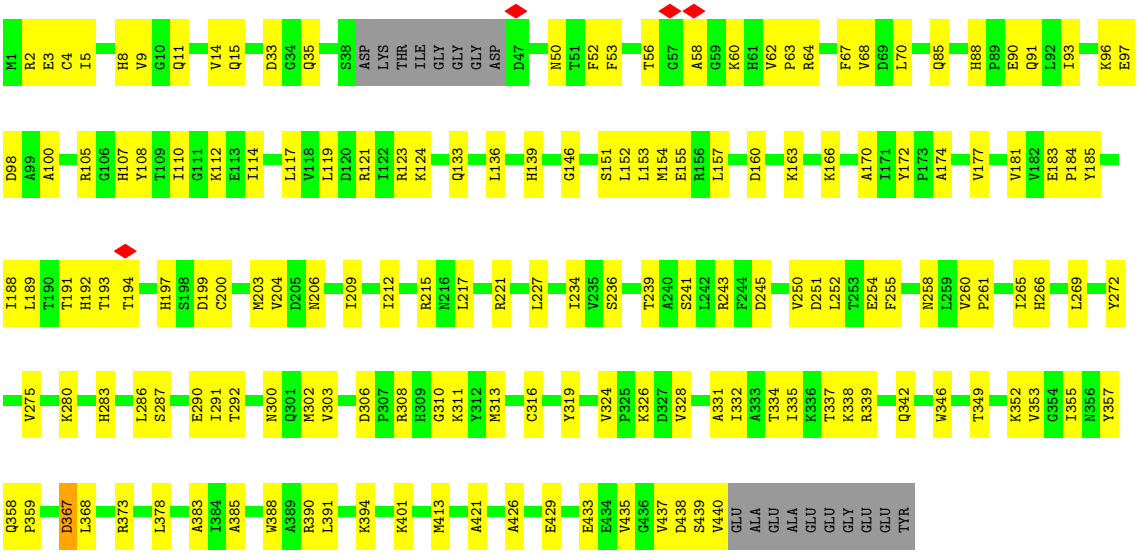
Chain JM:





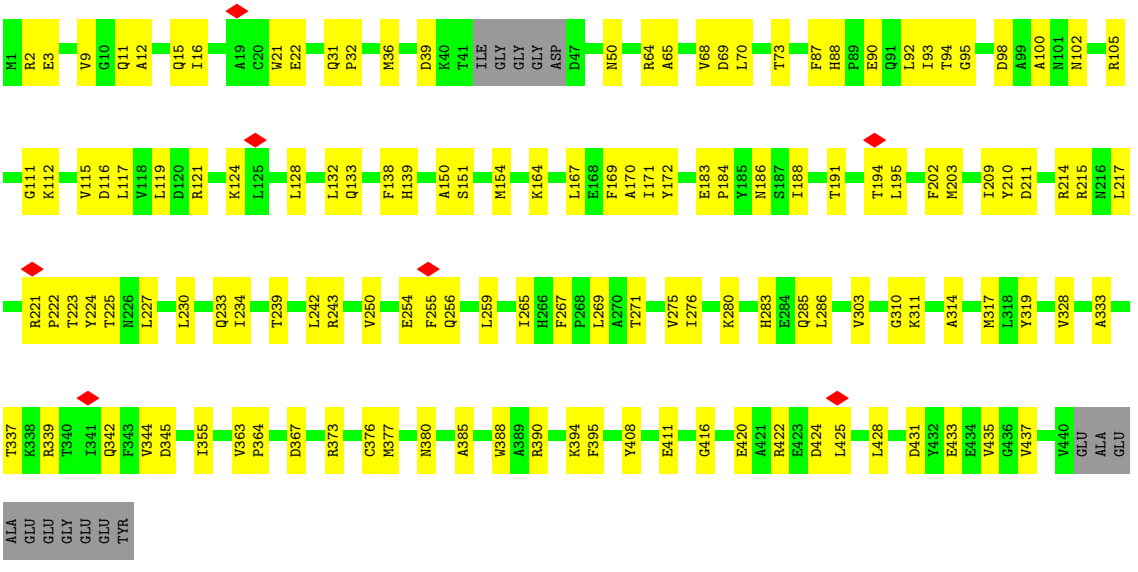
• Molecule 8: Tubulin alpha-3 chain

Chain JO:



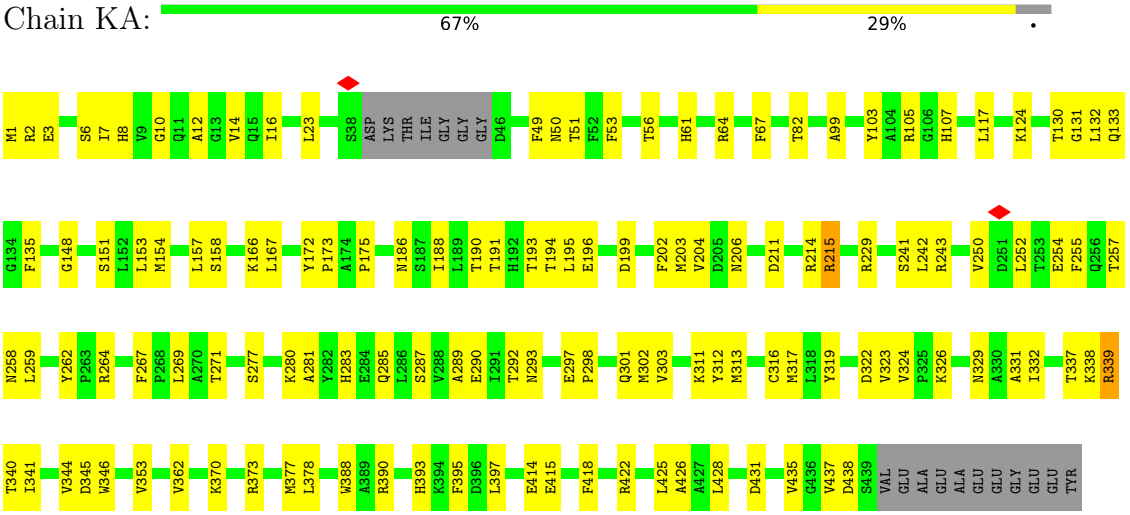
• Molecule 8: Tubulin alpha-3 chain

Chain JQ:



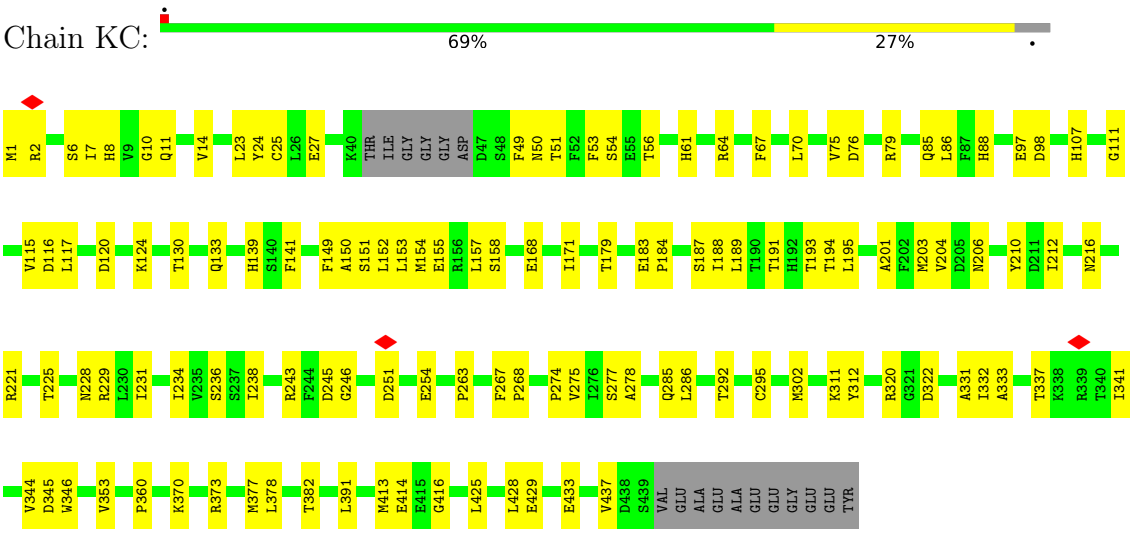
• Molecule 8: Tubulin alpha-3 chain

Chain KA:



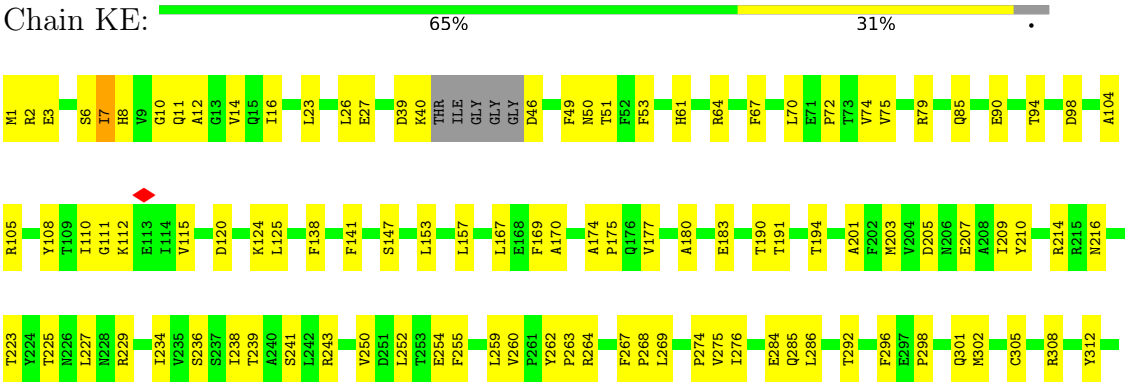
• Molecule 8: Tubulin alpha-3 chain

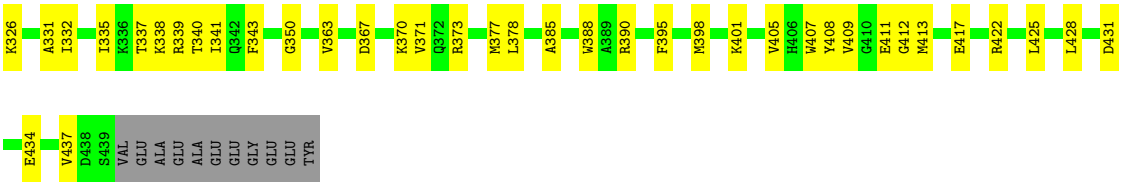
Chain KC:



• Molecule 8: Tubulin alpha-3 chain

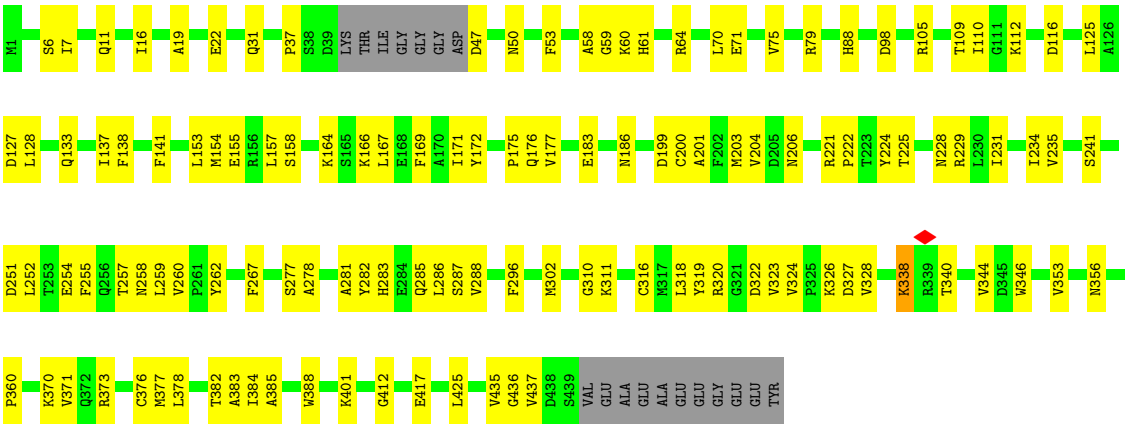
Chain KE:





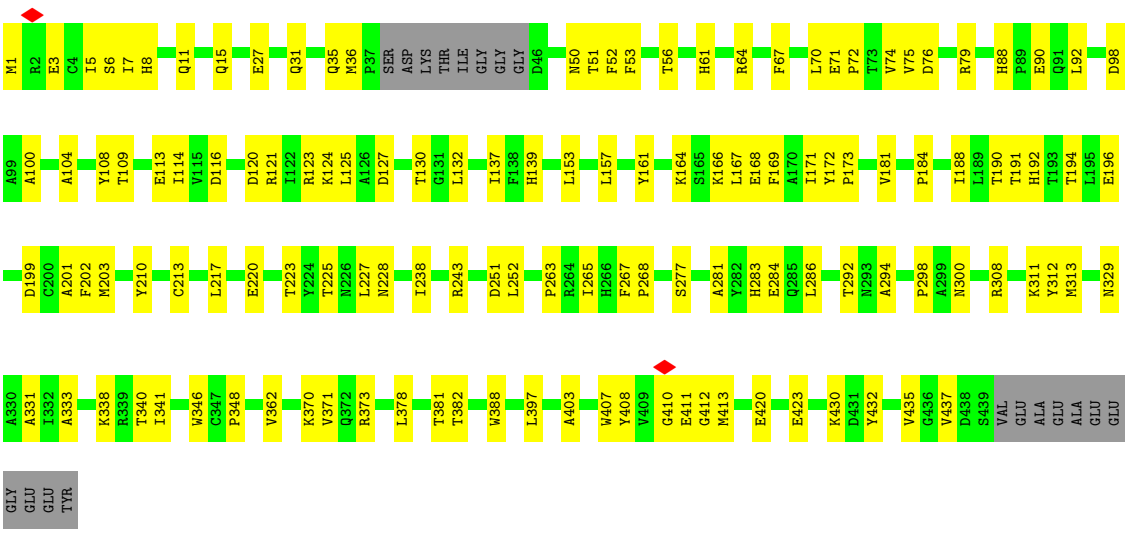
• Molecule 8: Tubulin alpha-3 chain

Chain KG:



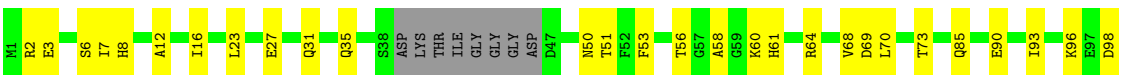
• Molecule 8: Tubulin alpha-3 chain

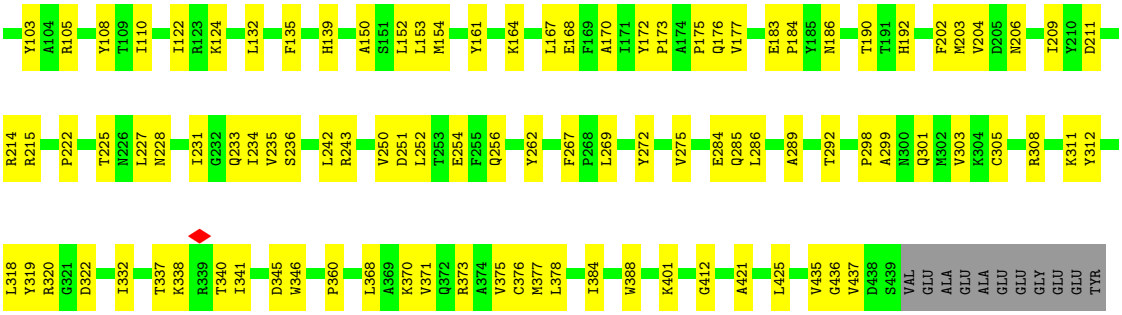
Chain KI:



• Molecule 8: Tubulin alpha-3 chain

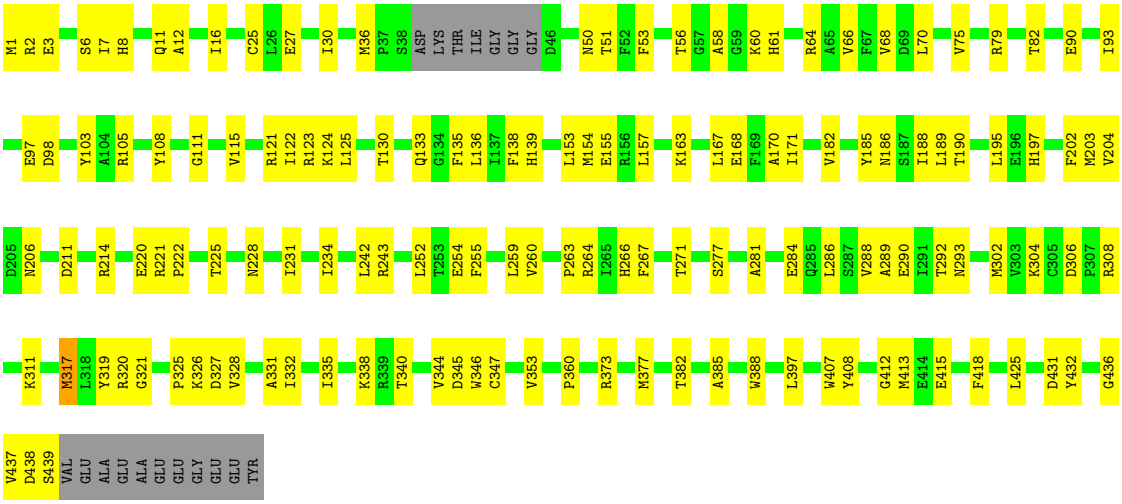
Chain KK:





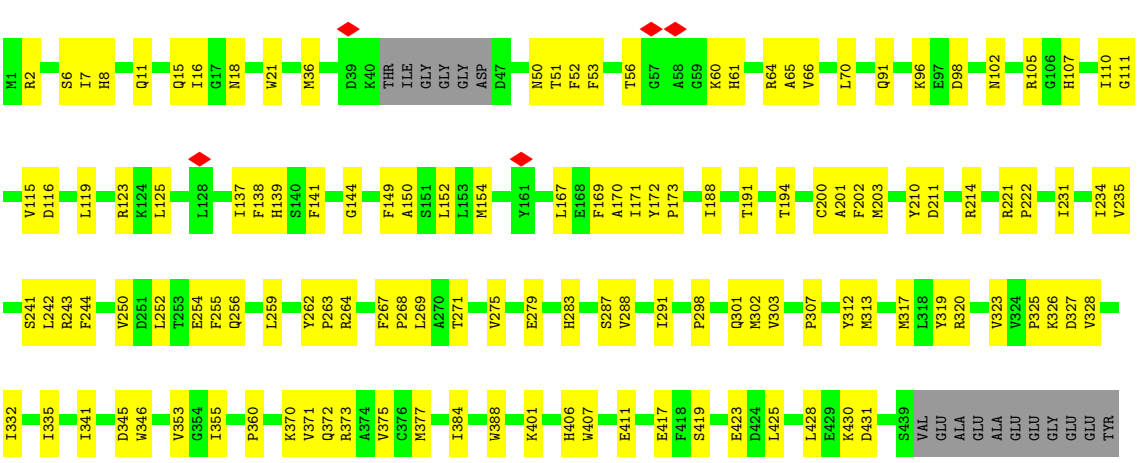
• Molecule 8: Tubulin alpha-3 chain

Chain KM:



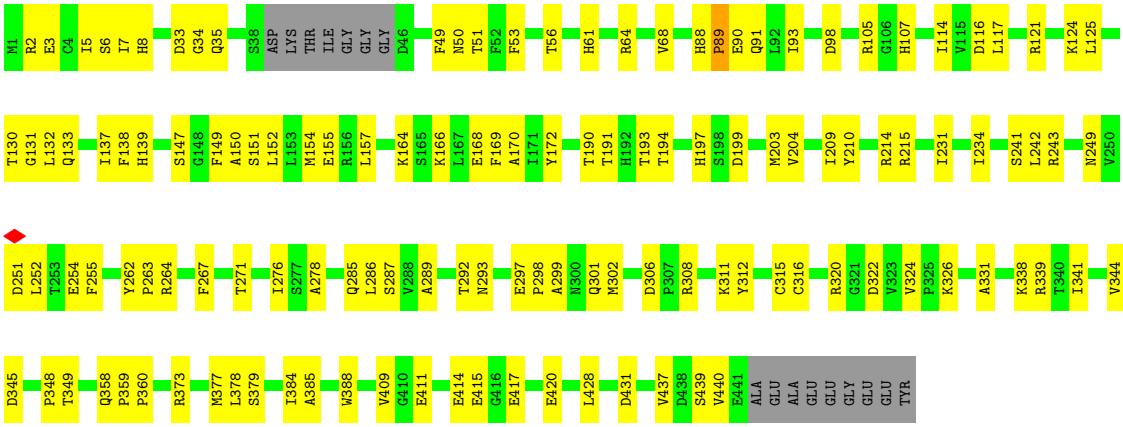
• Molecule 8: Tubulin alpha-3 chain

Chain KO:



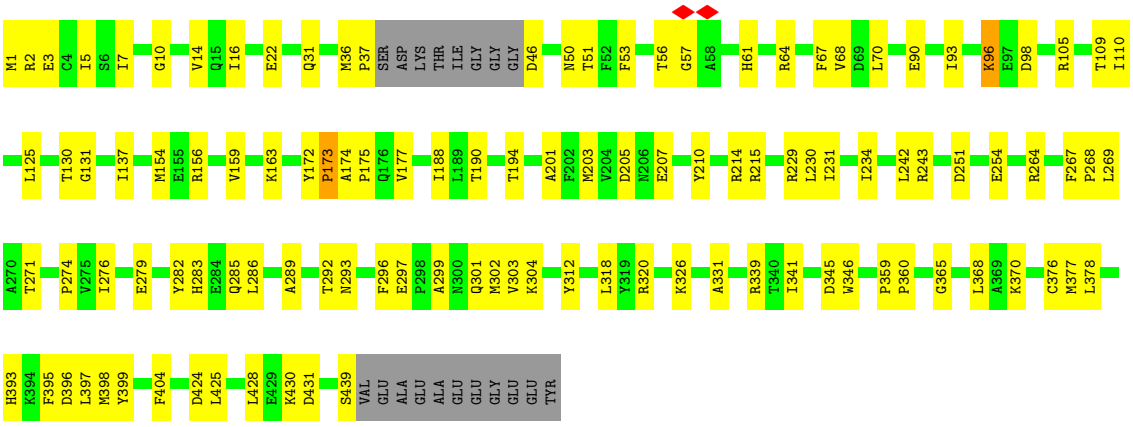
• Molecule 8: Tubulin alpha-3 chain

Chain LA:



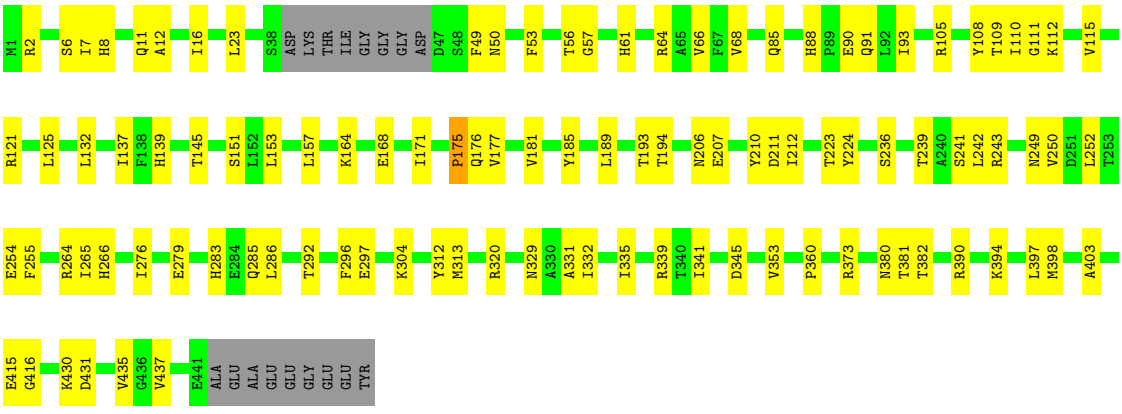
• Molecule 8: Tubulin alpha-3 chain

Chain LC:



• Molecule 8: Tubulin alpha-3 chain

Chain LE:

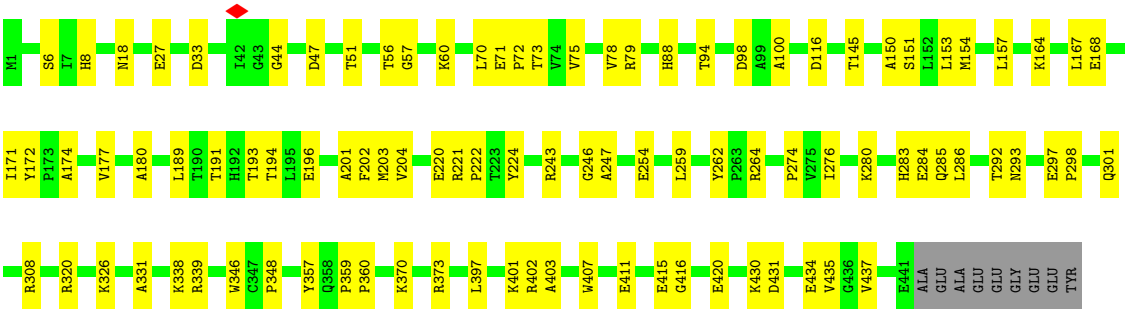


• Molecule 8: Tubulin alpha-3 chain

Chain LG:

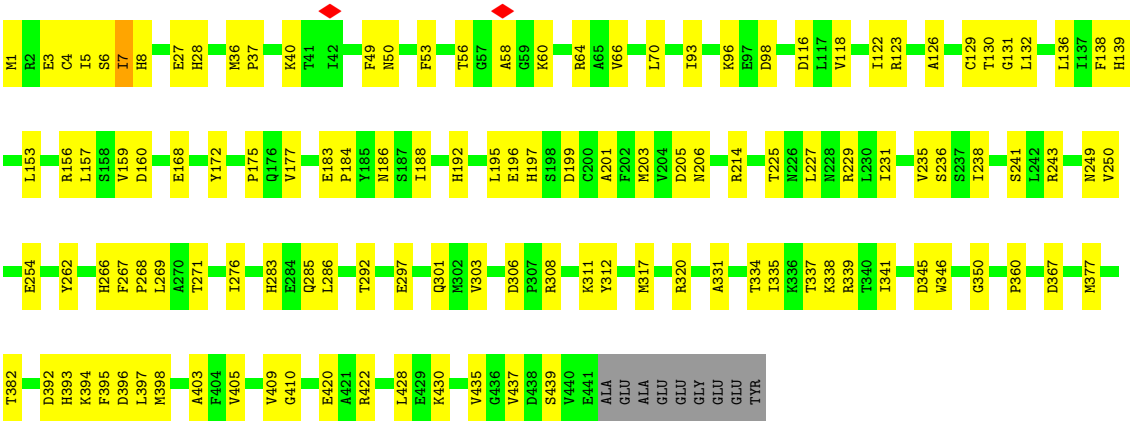
• Molecule 8: Tubulin alpha-3 chain

Chain LI:



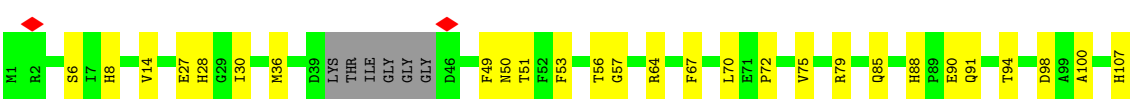
• Molecule 8: Tubulin alpha-3 chain

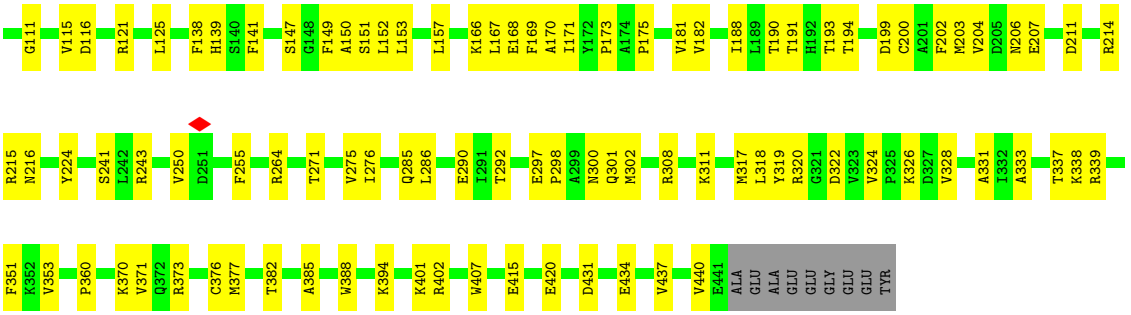
Chain LK:



• Molecule 8: Tubulin alpha-3 chain

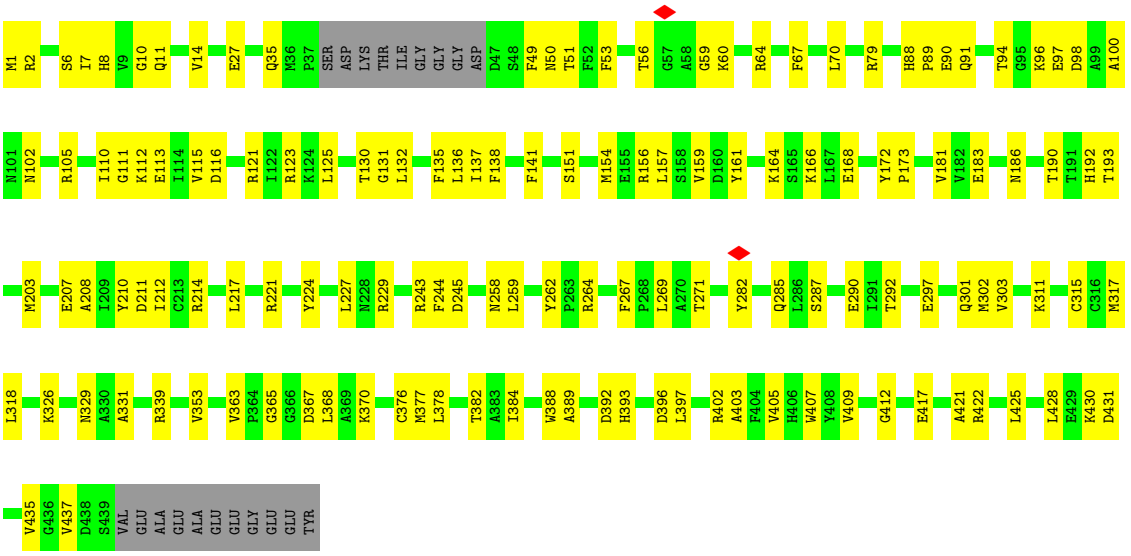
Chain LM:





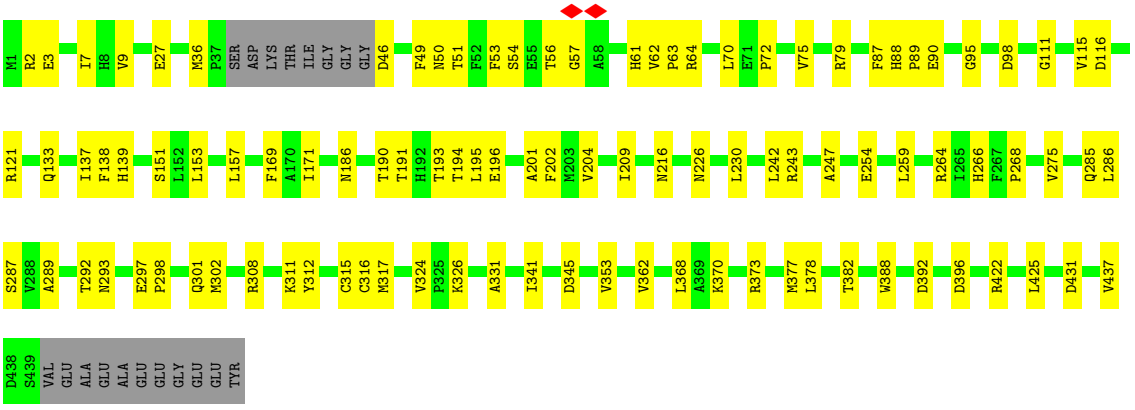
• Molecule 8: Tubulin alpha-3 chain

Chain LO:



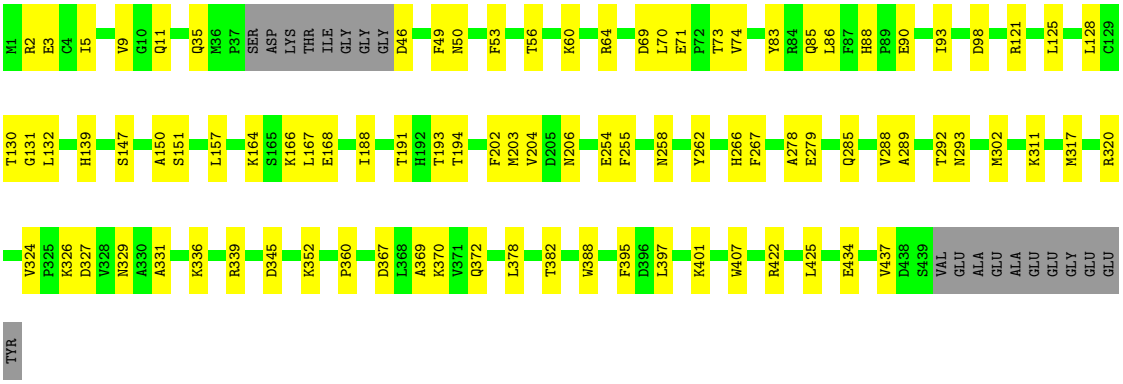
• Molecule 8: Tubulin alpha-3 chain

Chain MA:



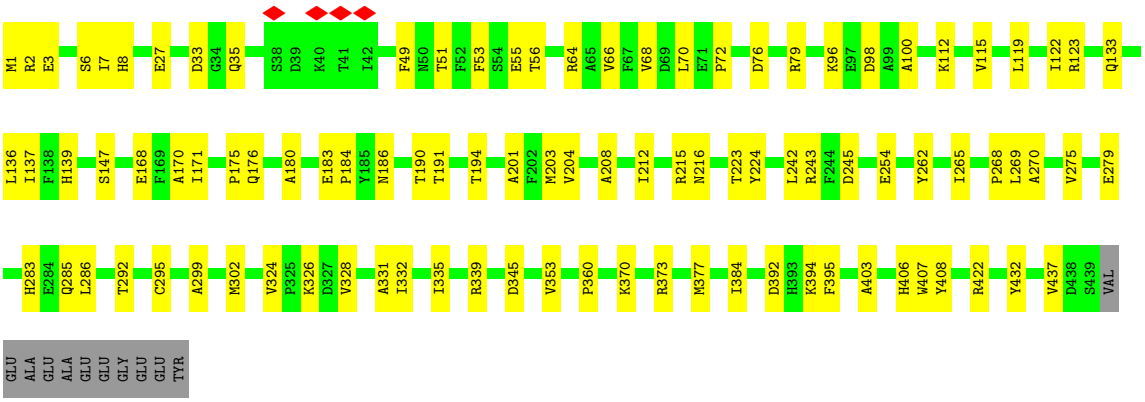
• Molecule 8: Tubulin alpha-3 chain

Chain MC:



• Molecule 8: Tubulin alpha-3 chain

Chain ME:



• Molecule 8: Tubulin alpha-3 chain

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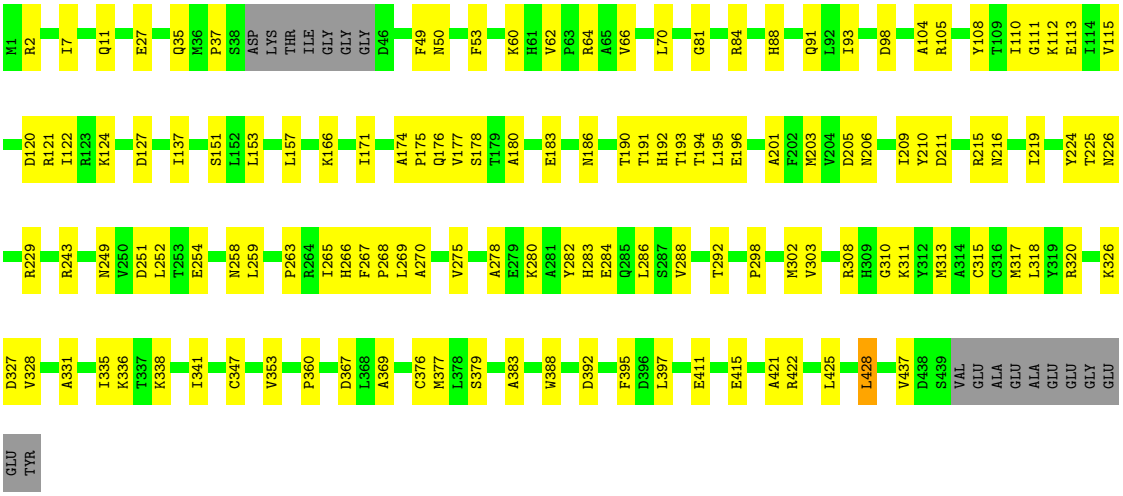
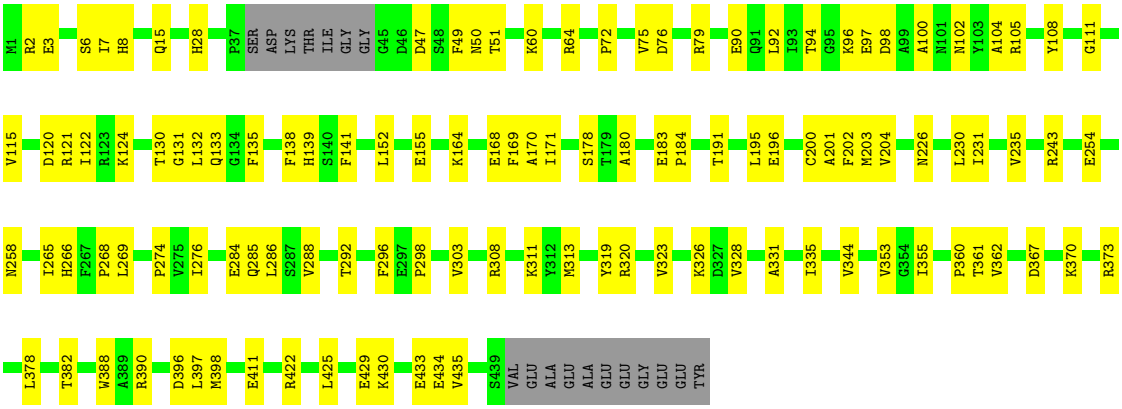


• Molecule 8: Tubulin alpha-3 chain

Chain MI:



• Molecule 8: Tubulin alpha-3 chain

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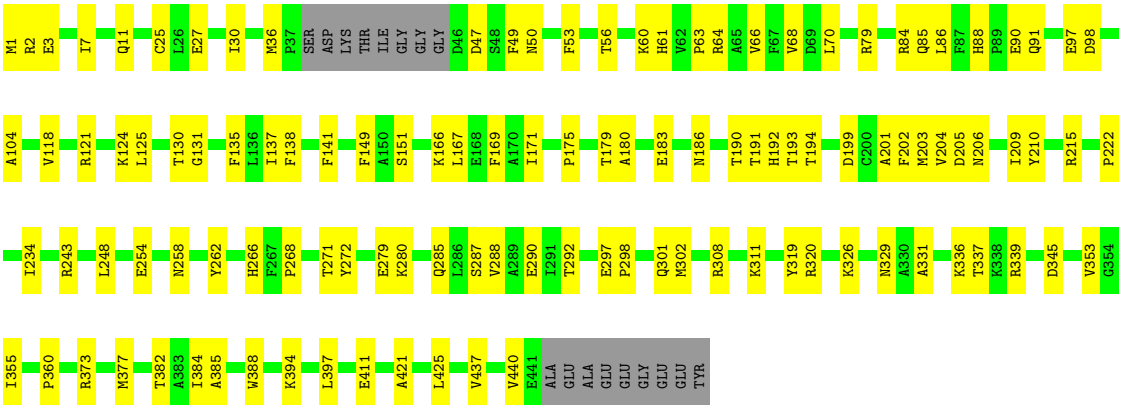

• Molecule 8: Tubulin alpha-3 chain

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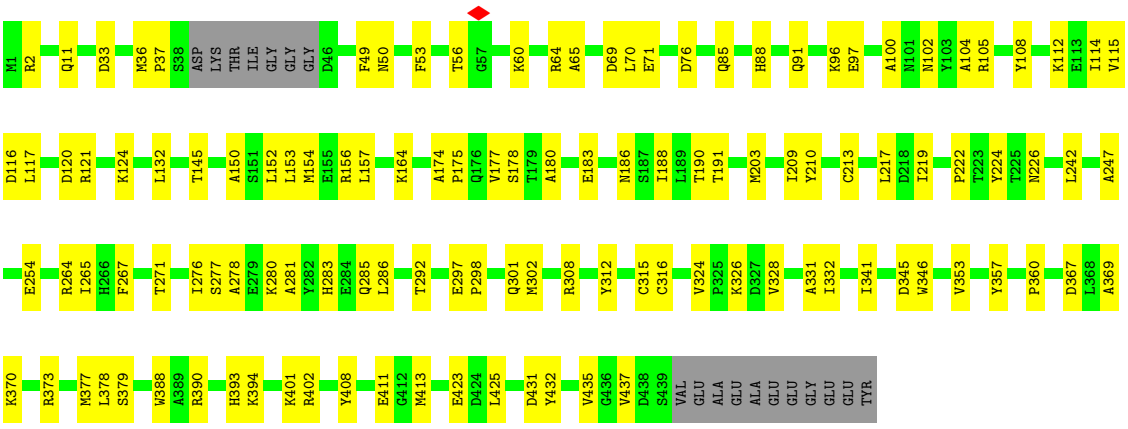
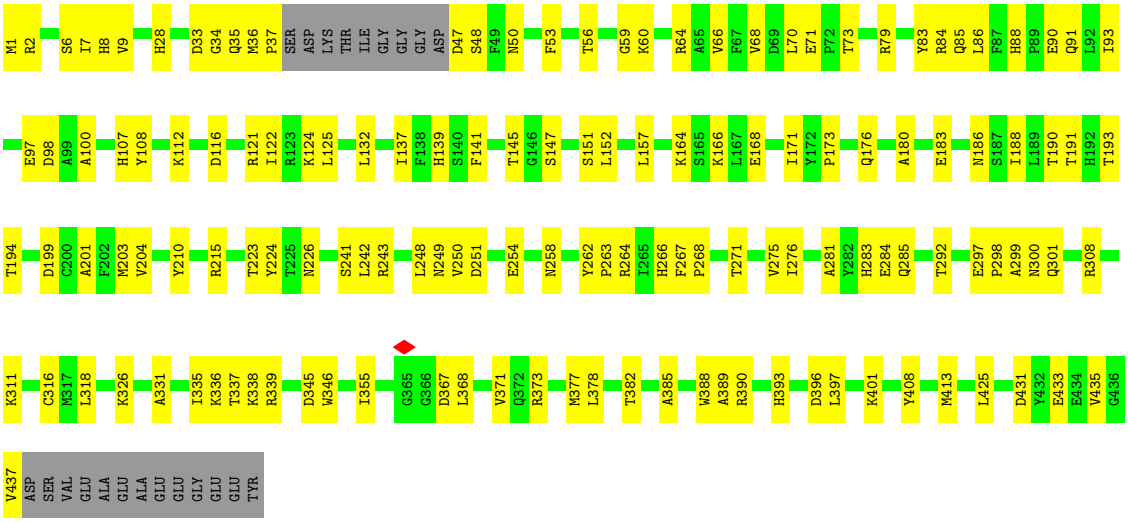


• Molecule 8: Tubulin alpha-3 chain

Chain MO:



• Molecule 8: Tubulin alpha-3 chain

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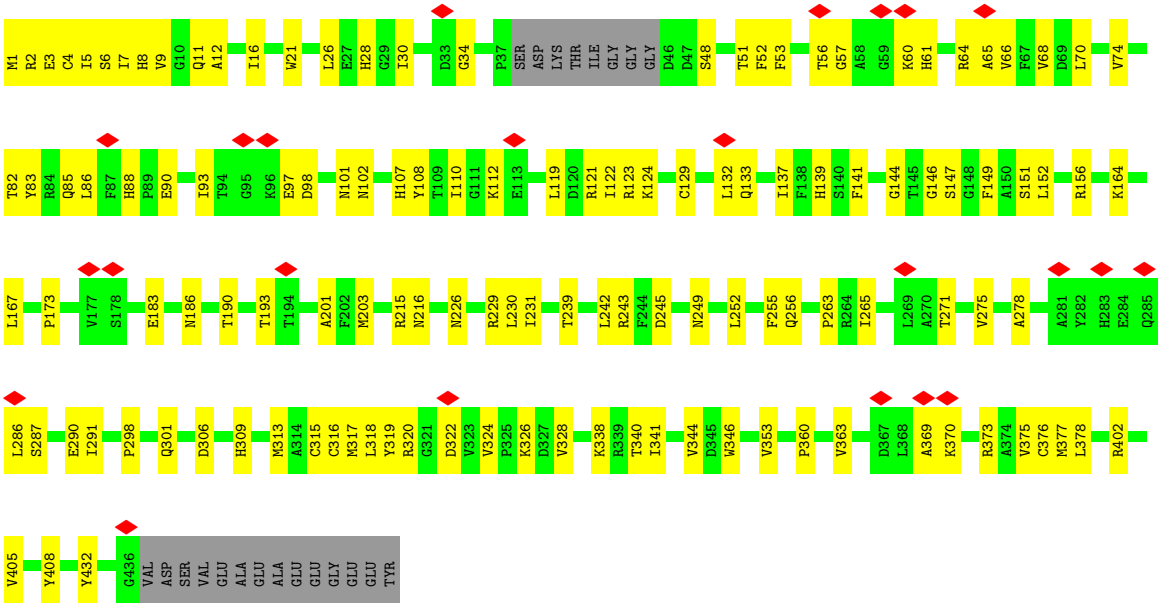
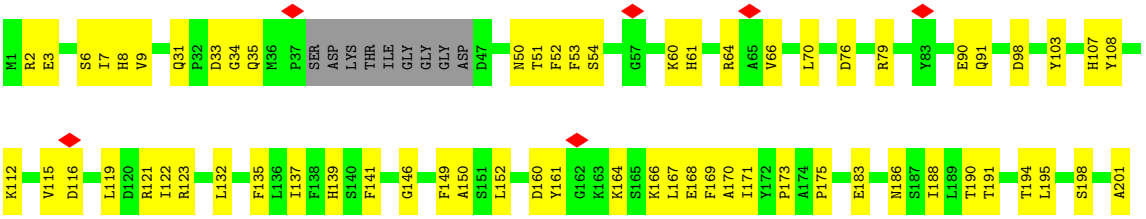
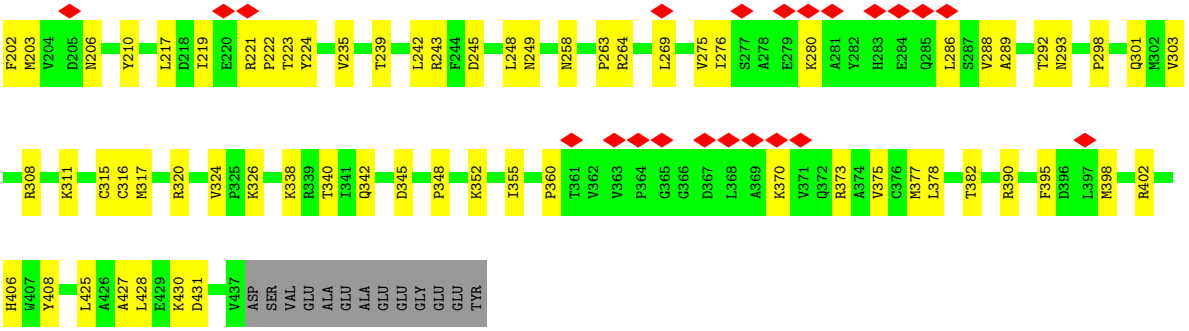


• Molecule 8: Tubulin alpha-3 chain

Chain NC:





• Molecule 8: Tubulin alpha-3 chain

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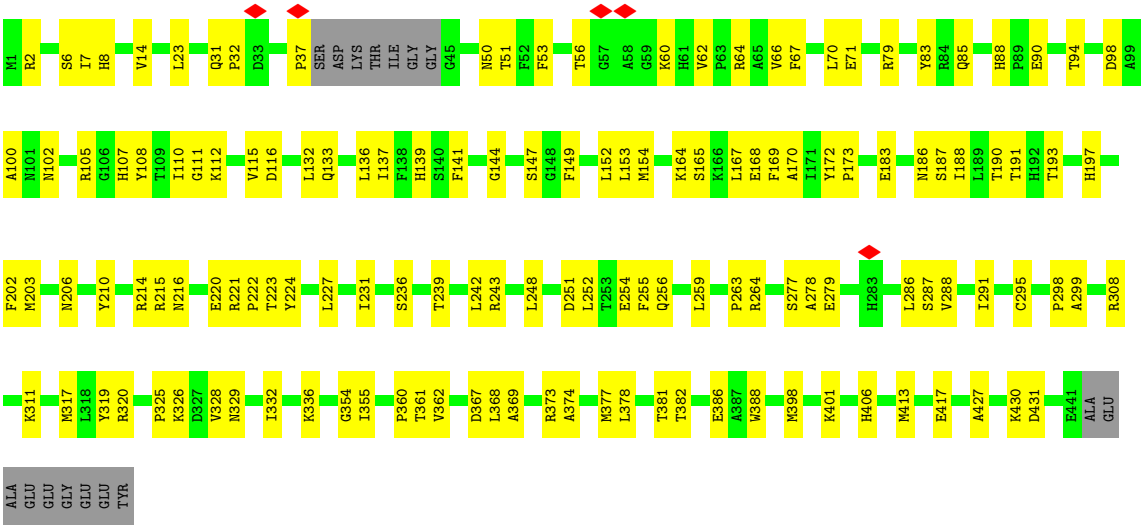

• Molecule 8: Tubulin alpha-3 chain

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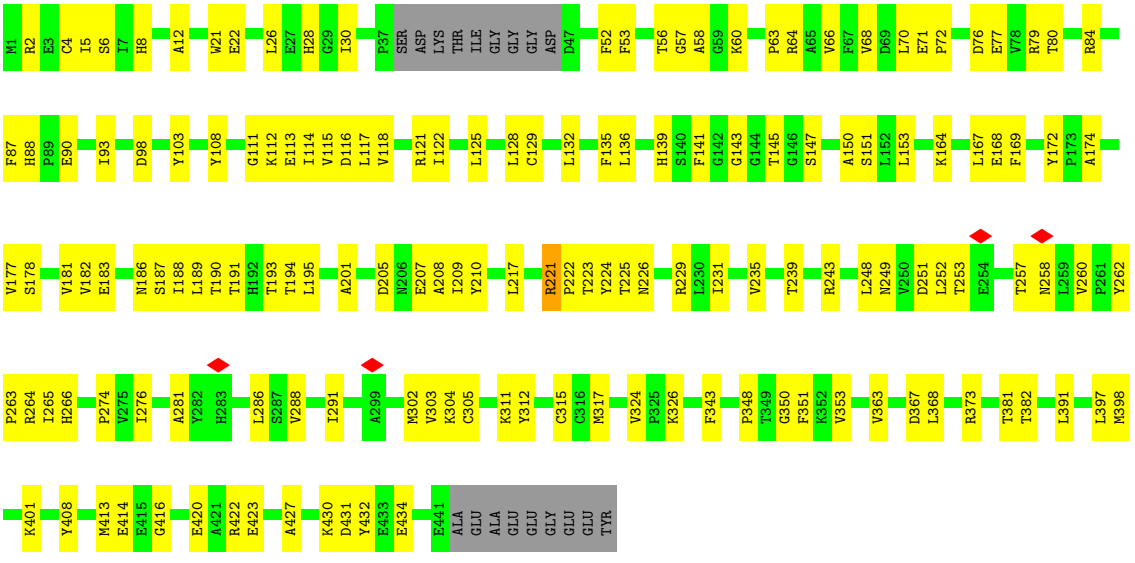
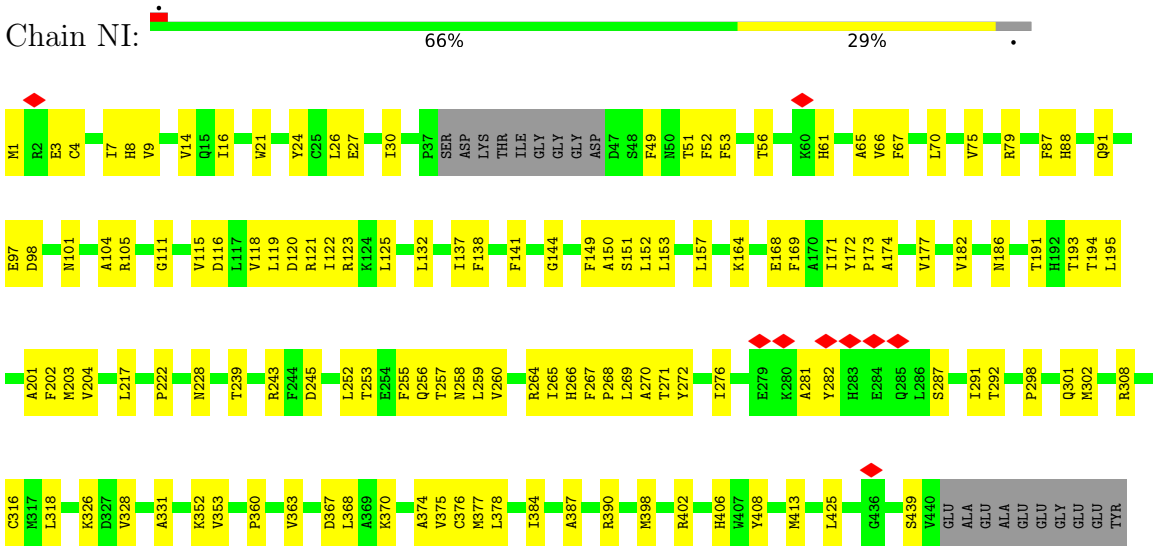


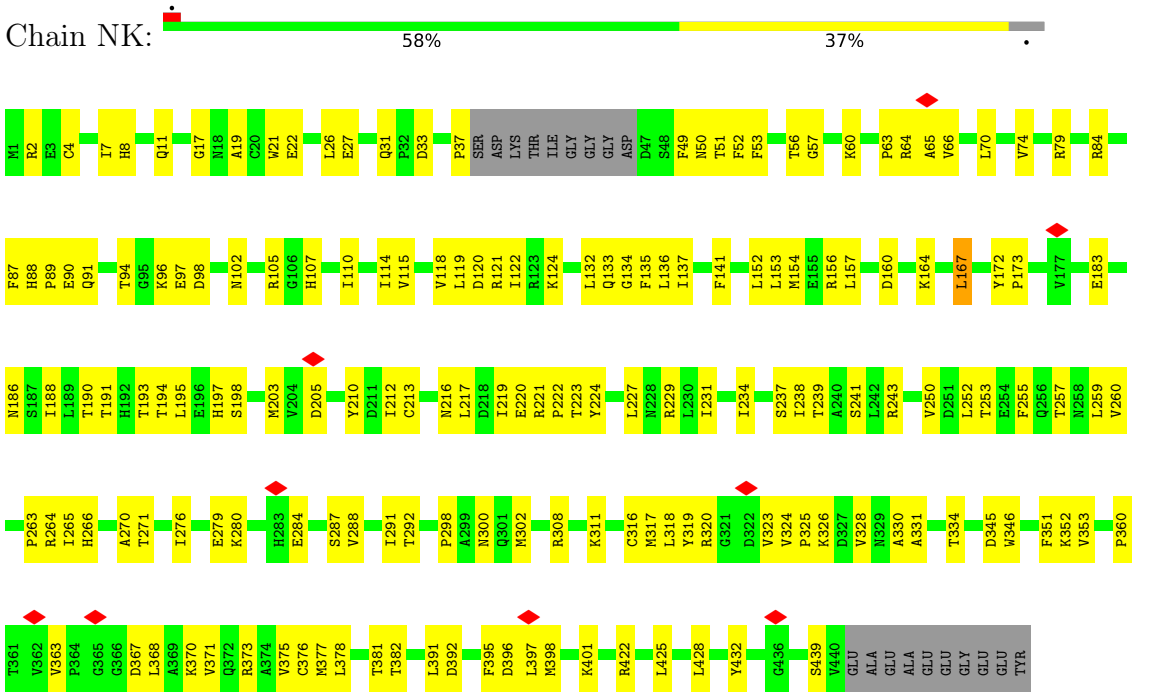
• Molecule 8: Tubulin alpha-3 chain

Chain NI:



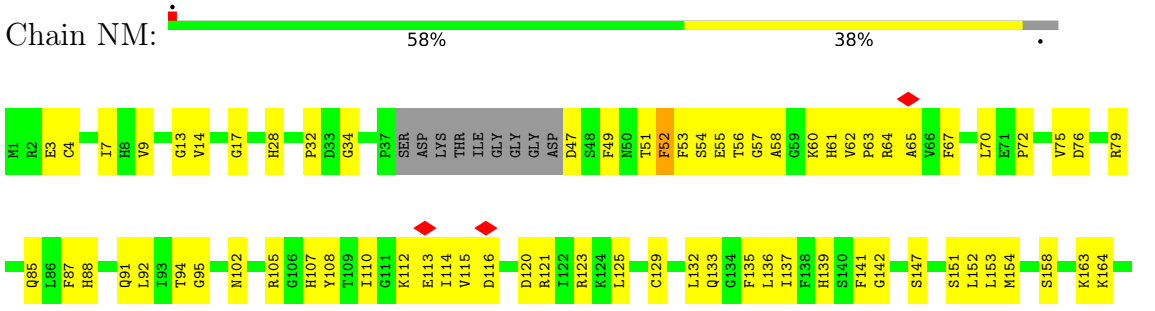
• Molecule 8: Tubulin alpha-3 chain

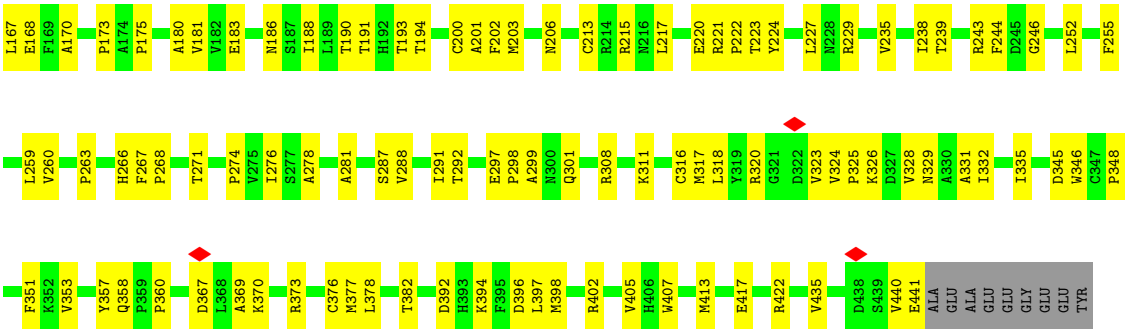
Chain NK:



• Molecule 8: Tubulin alpha-3 chain

Chain NM:





• Molecule 8: Tubulin alpha-3 chain

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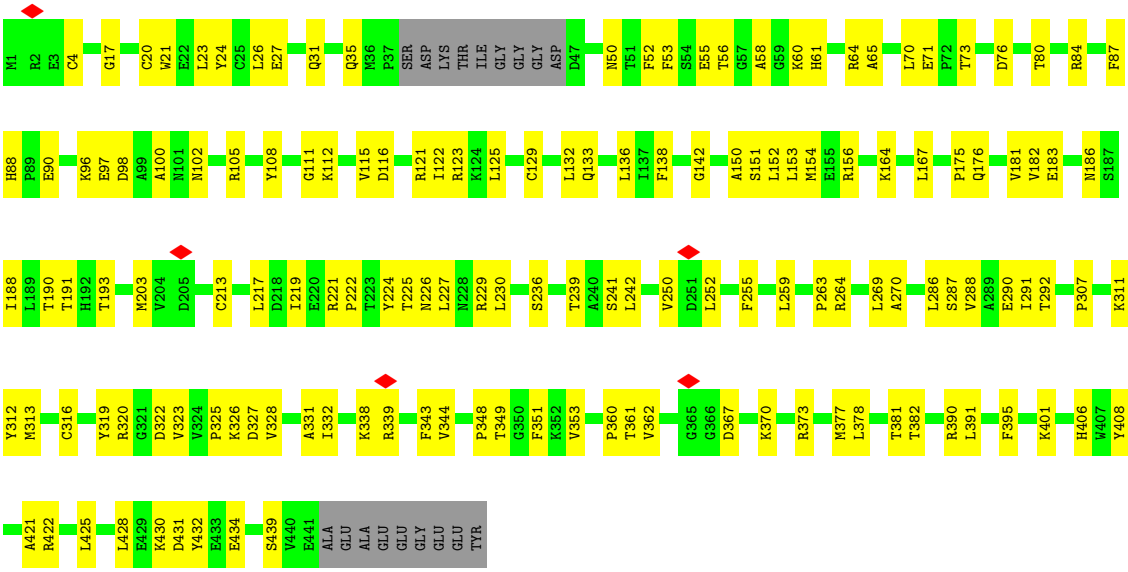
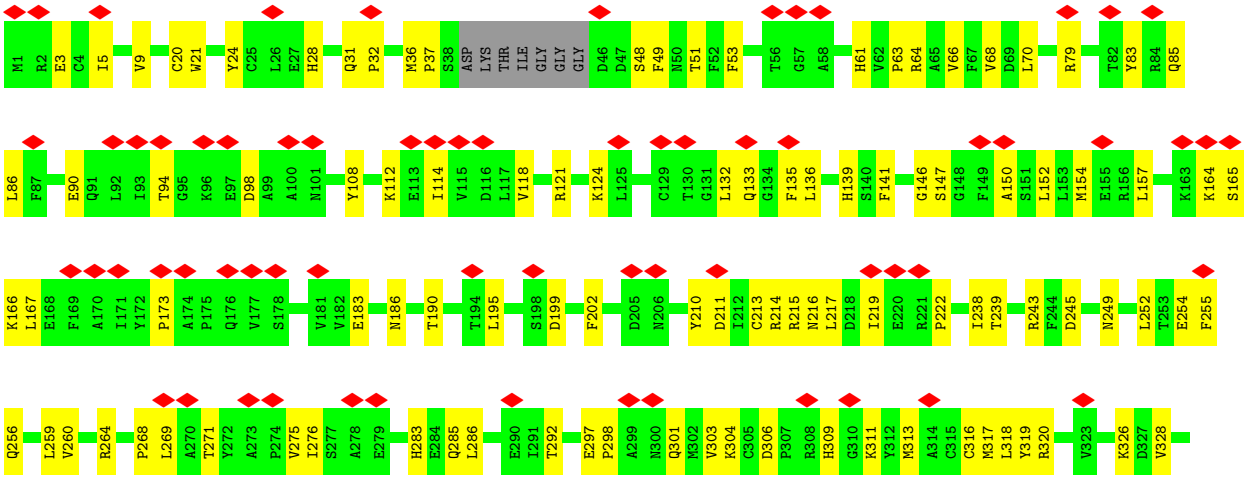
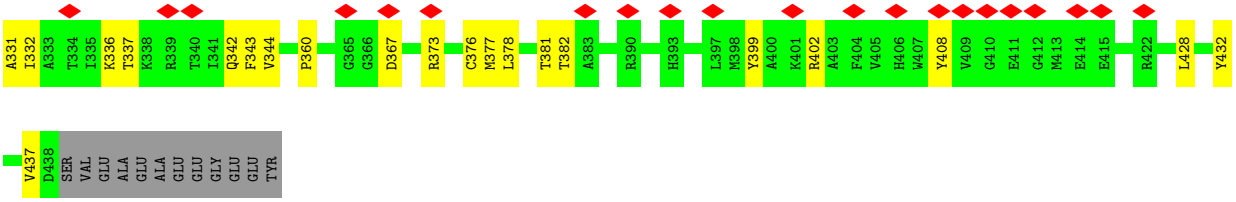


• Molecule 8: Tubulin alpha-3 chain

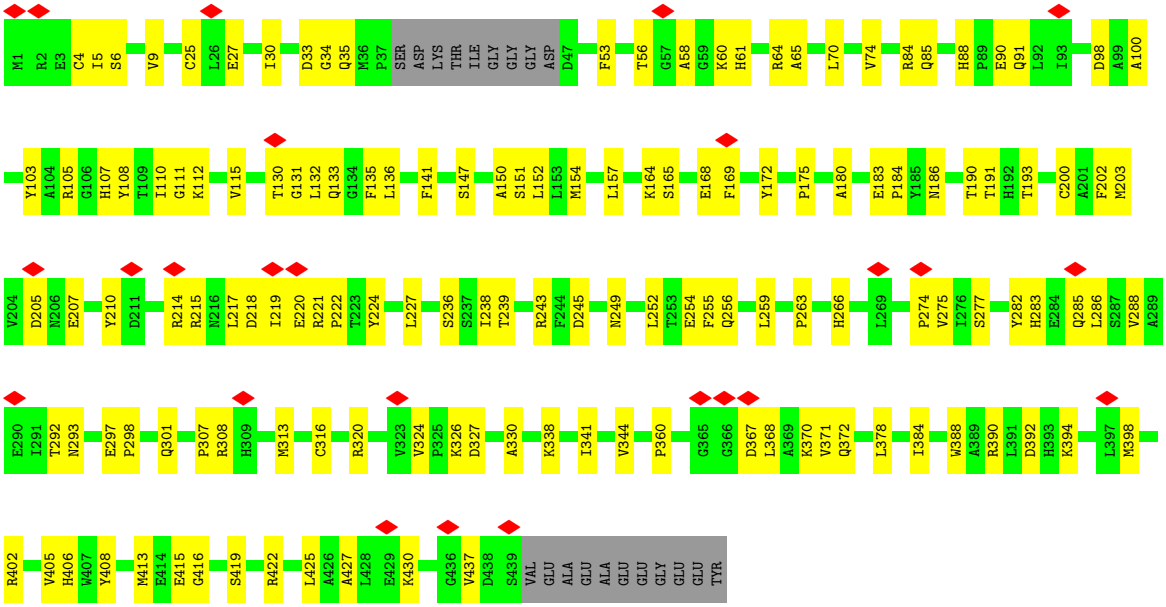
Chain OA:





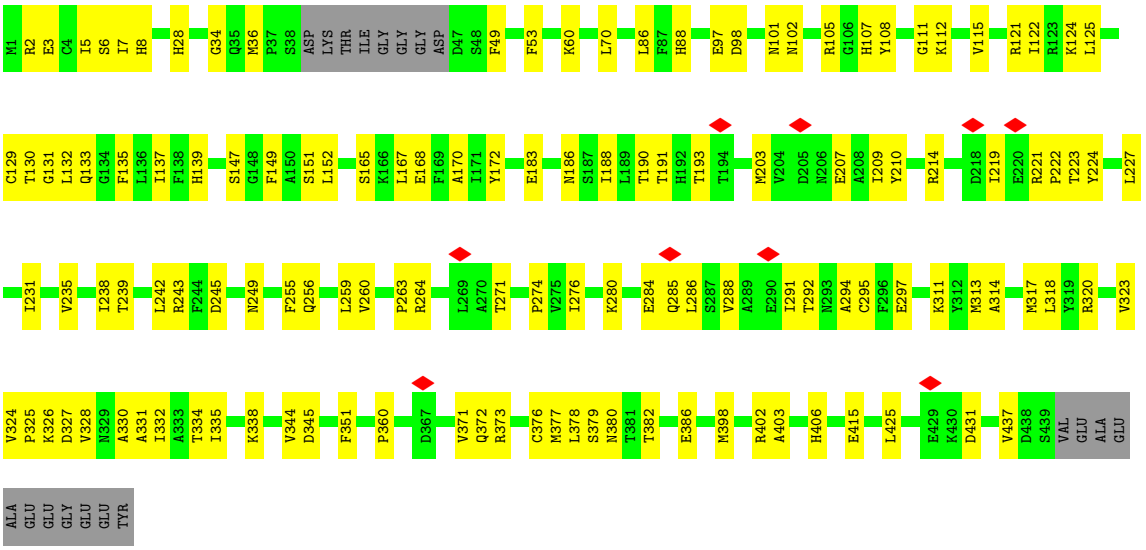
• Molecule 8: Tubulin alpha-3 chain

Chain OC:



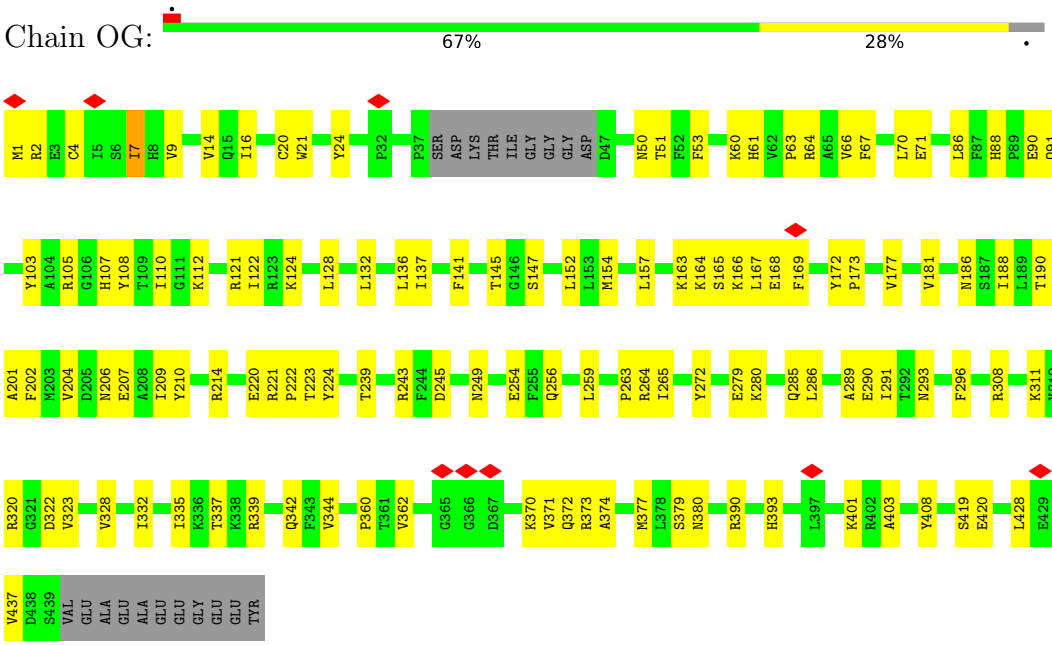
• Molecule 8: Tubulin alpha-3 chain

Chain OE:



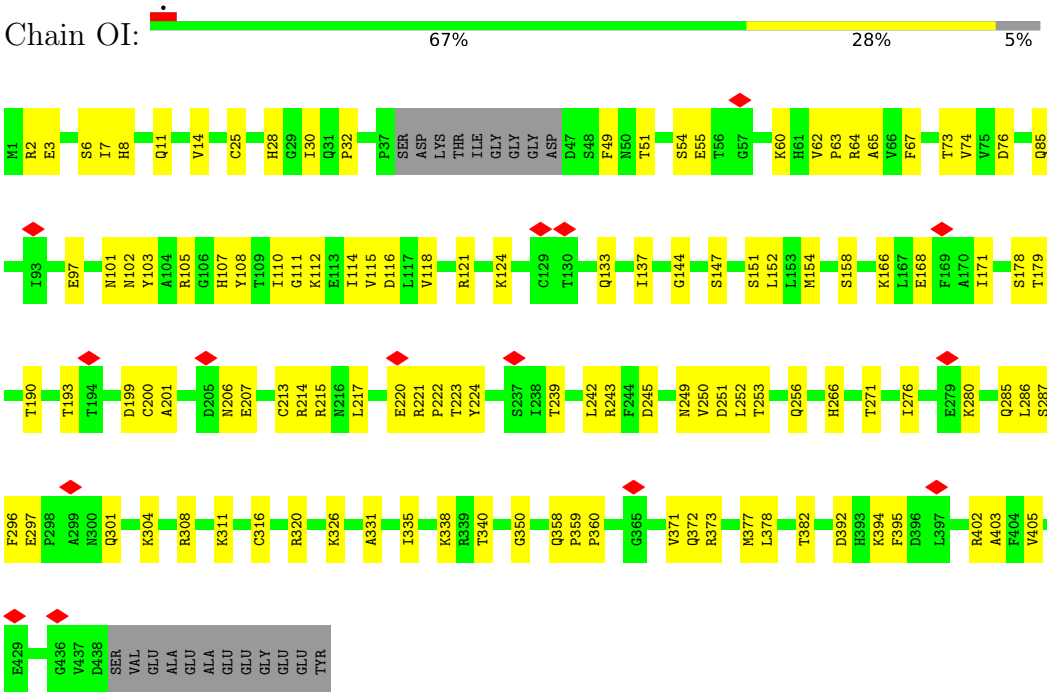
• Molecule 8: Tubulin alpha-3 chain

Chain OG:



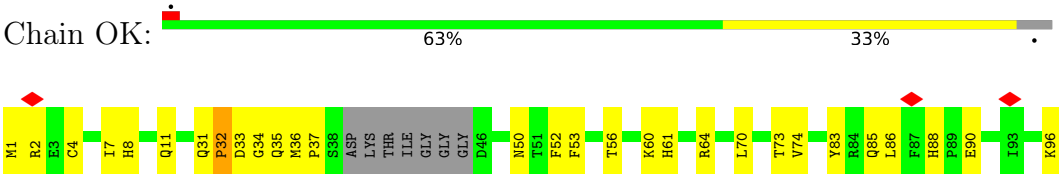
• Molecule 8: Tubulin alpha-3 chain

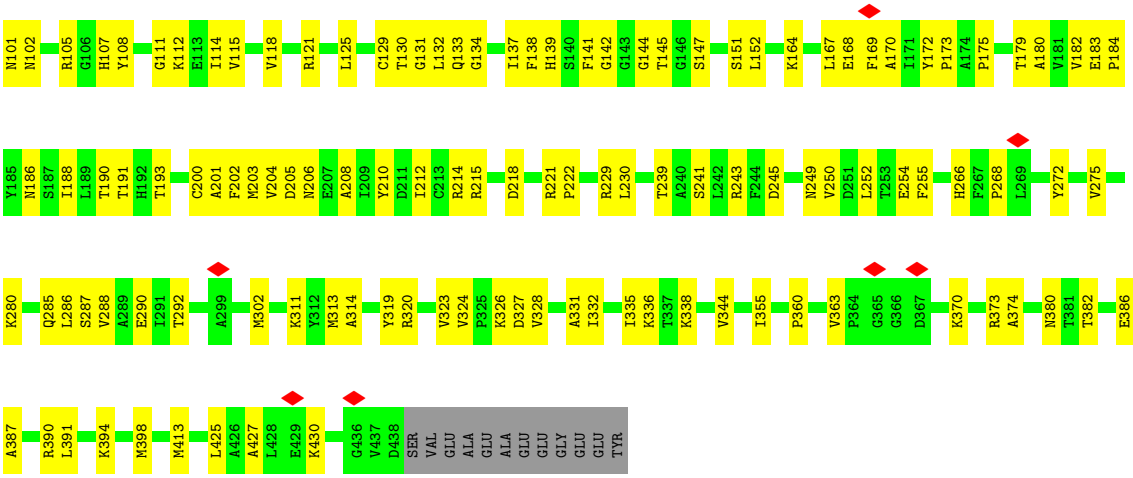
Chain OI:



• Molecule 8: Tubulin alpha-3 chain

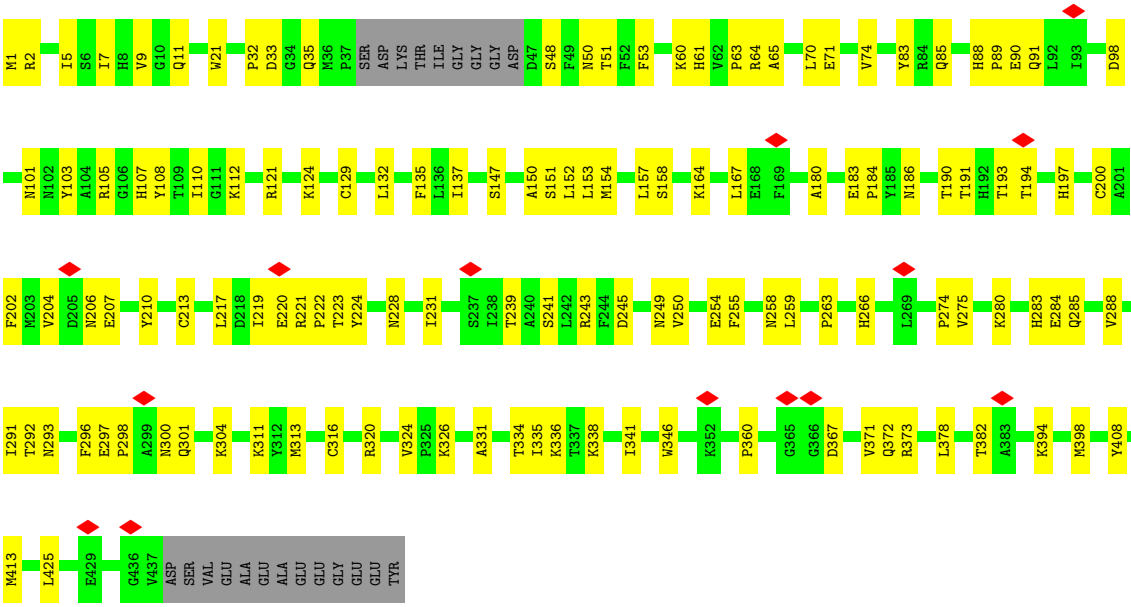
Chain OK:





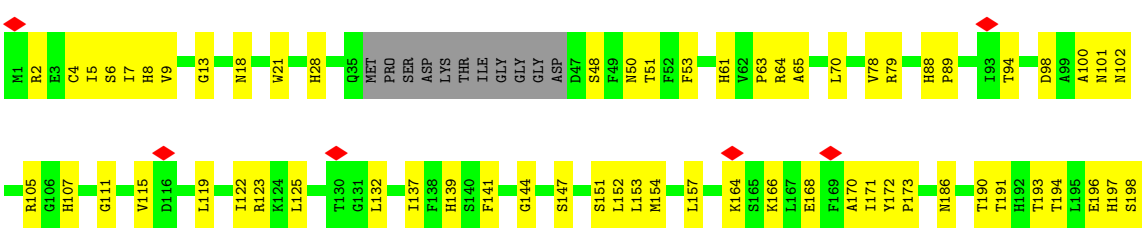
• Molecule 8: Tubulin alpha-3 chain

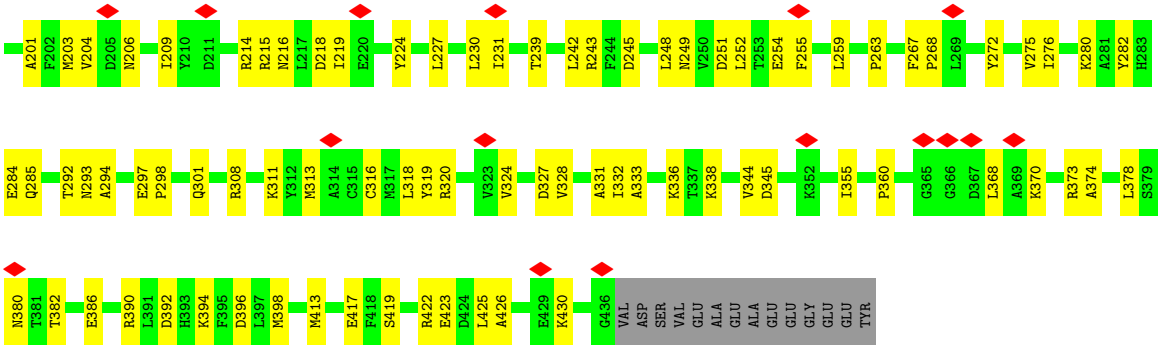
Chain OM:



• Molecule 8: Tubulin alpha-3 chain

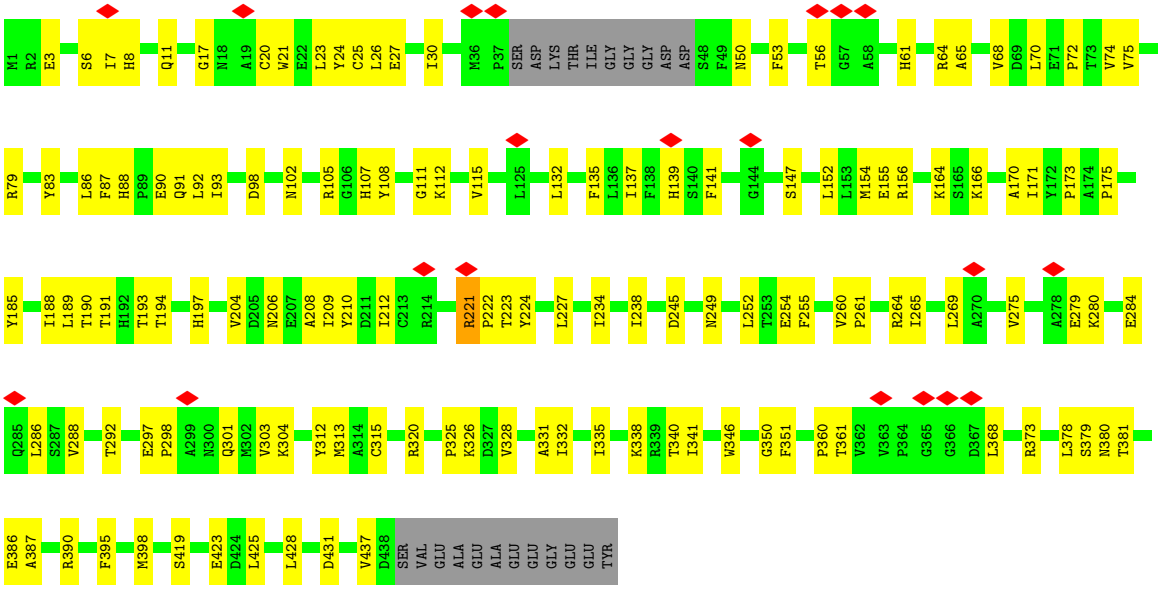
Chain OO:





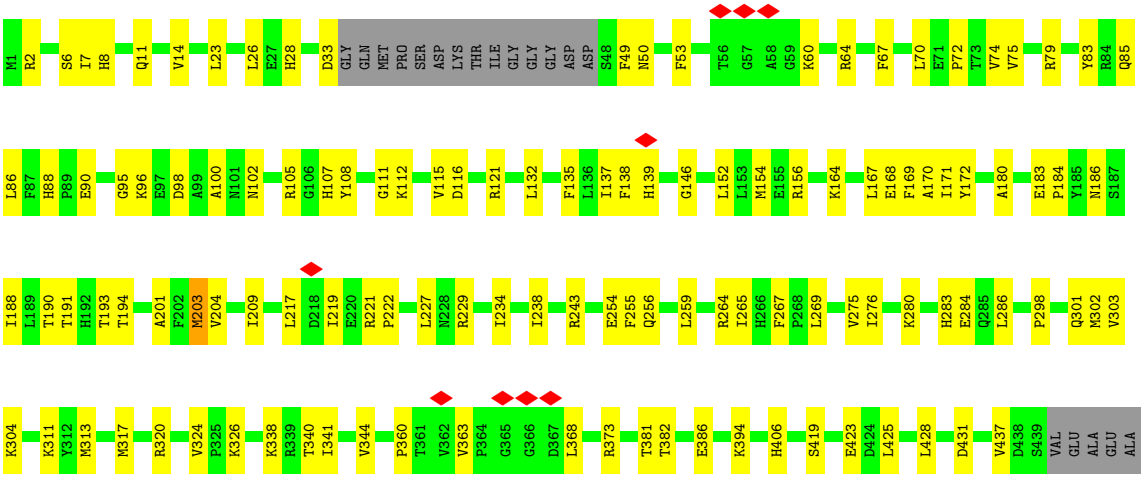
• Molecule 8: Tubulin alpha-3 chain

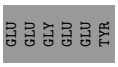
Chain PC:



• Molecule 8: Tubulin alpha-3 chain

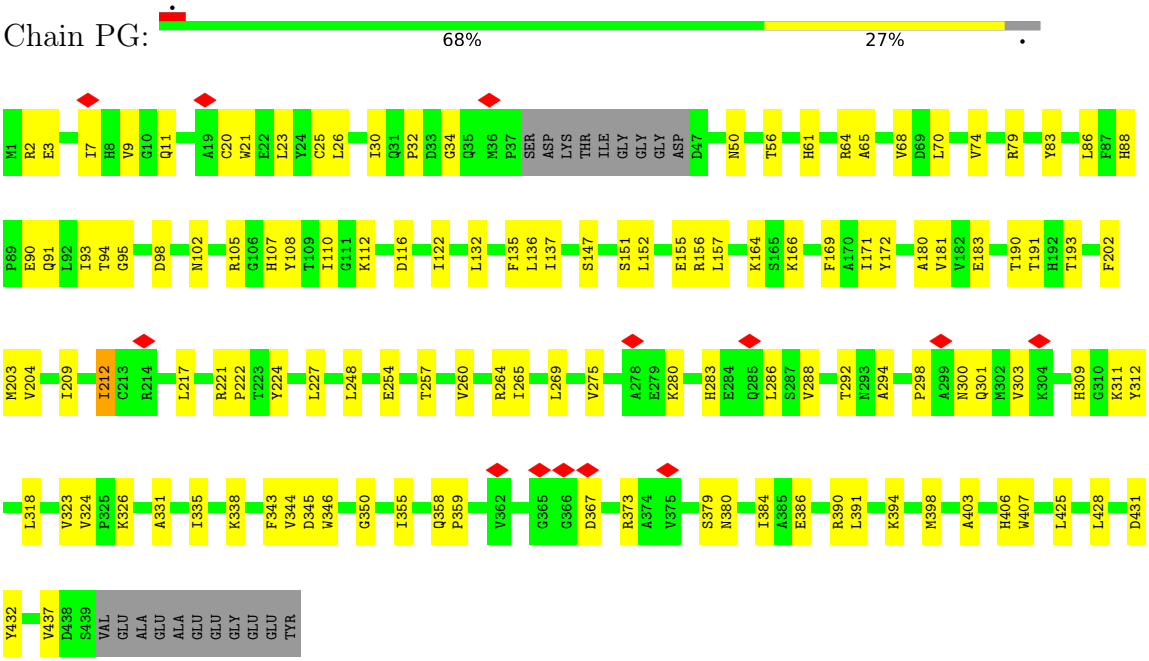
Chain PE:





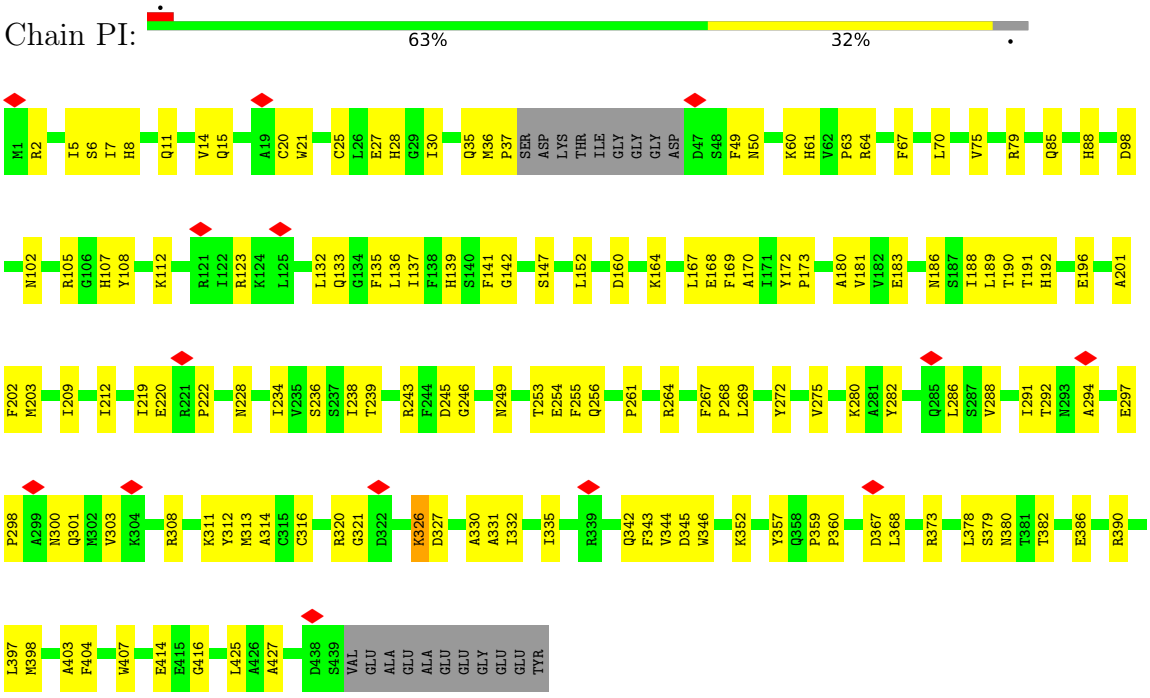
• Molecule 8: Tubulin alpha-3 chain

Chain PG:



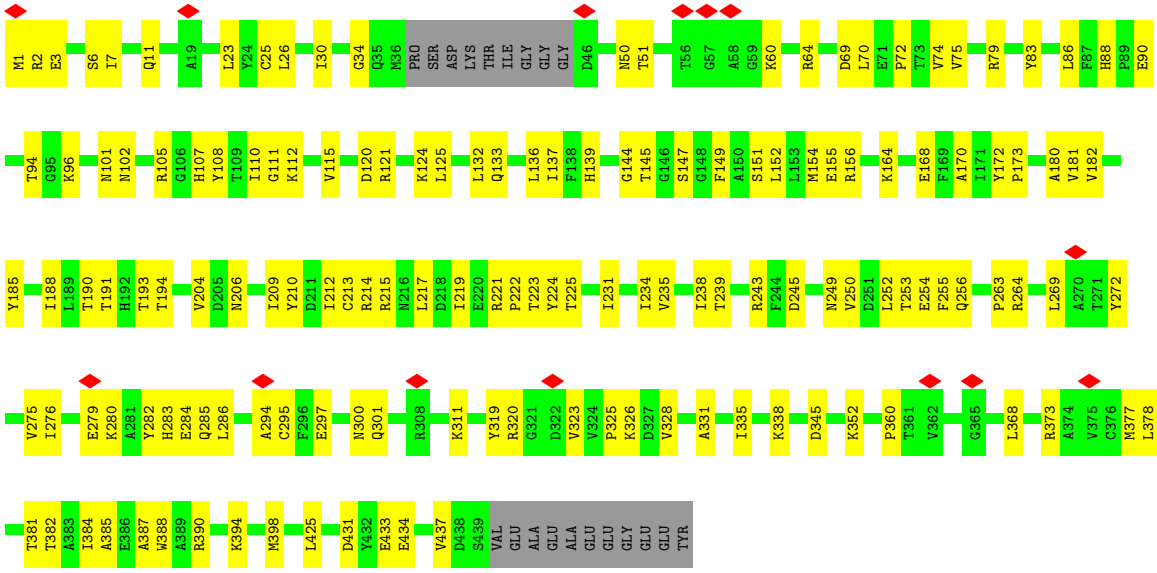
• Molecule 8: Tubulin alpha-3 chain

Chain PI:



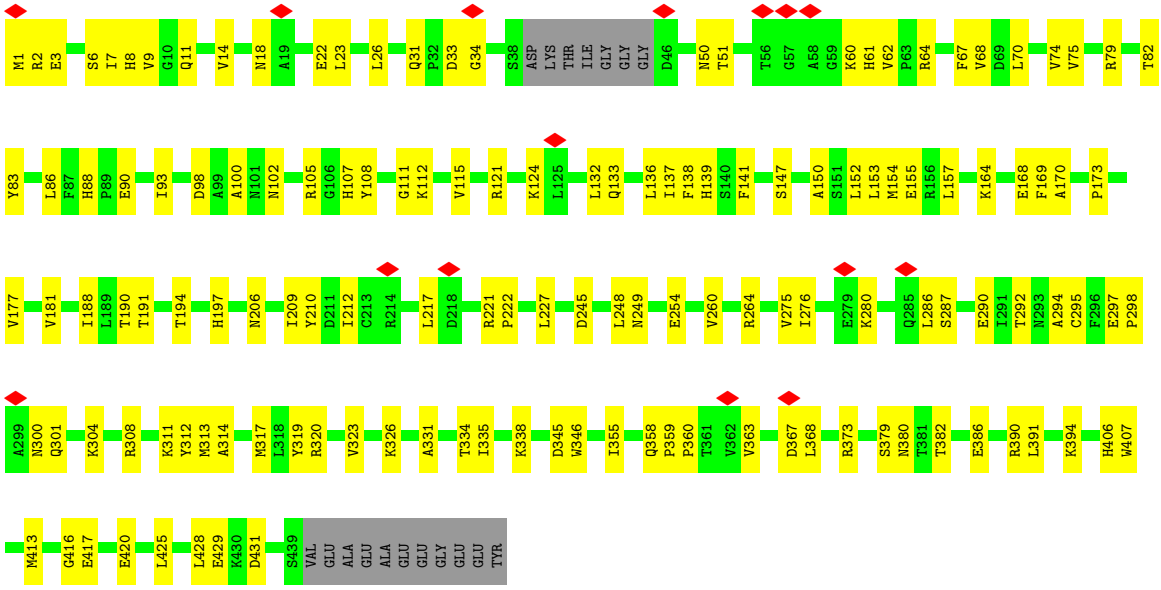
• Molecule 8: Tubulin alpha-3 chain

Chain PK:



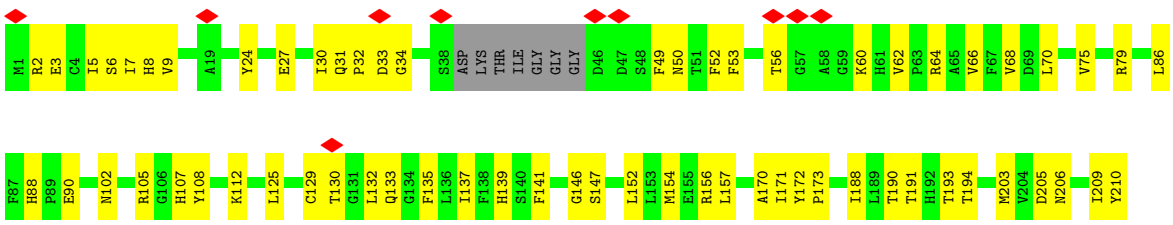
• Molecule 8: Tubulin alpha-3 chain

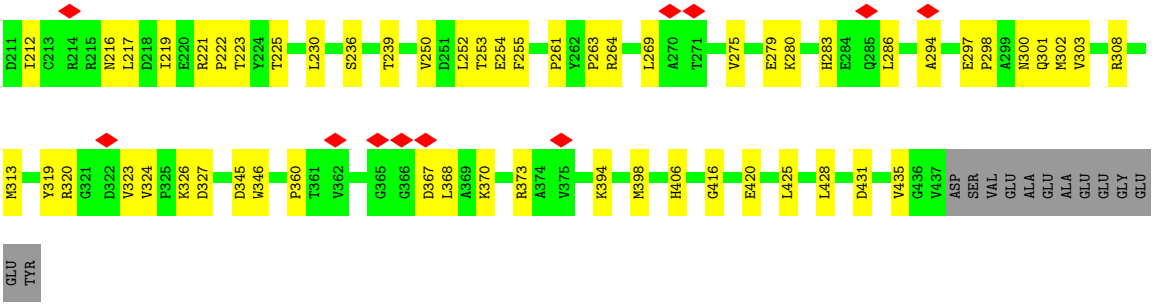
Chain PM:



• Molecule 8: Tubulin alpha-3 chain

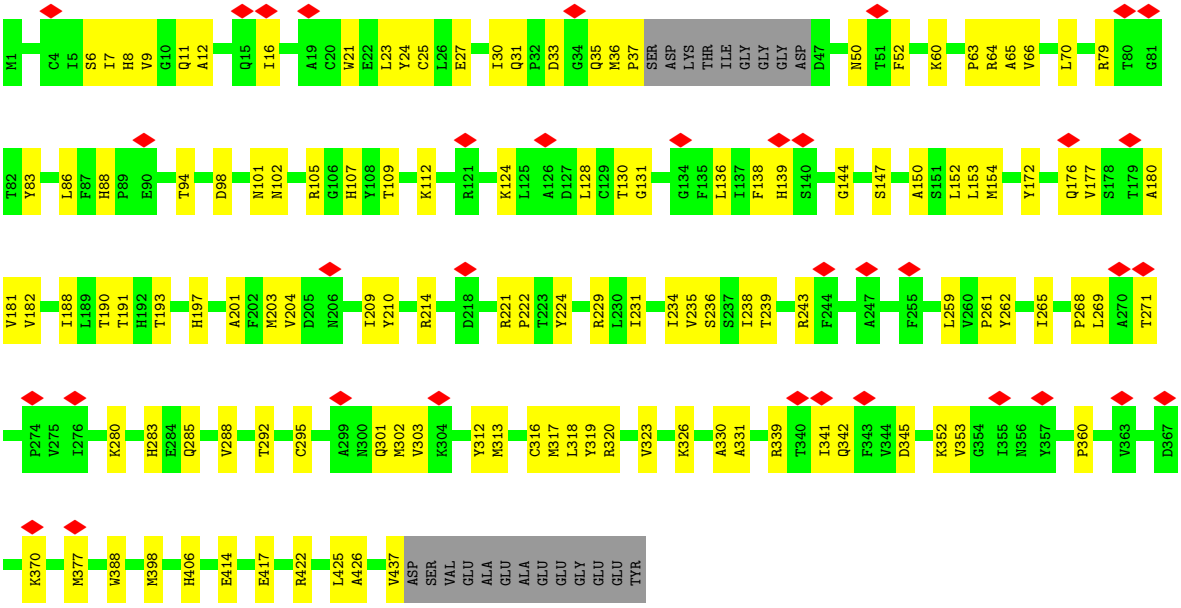
Chain PO:





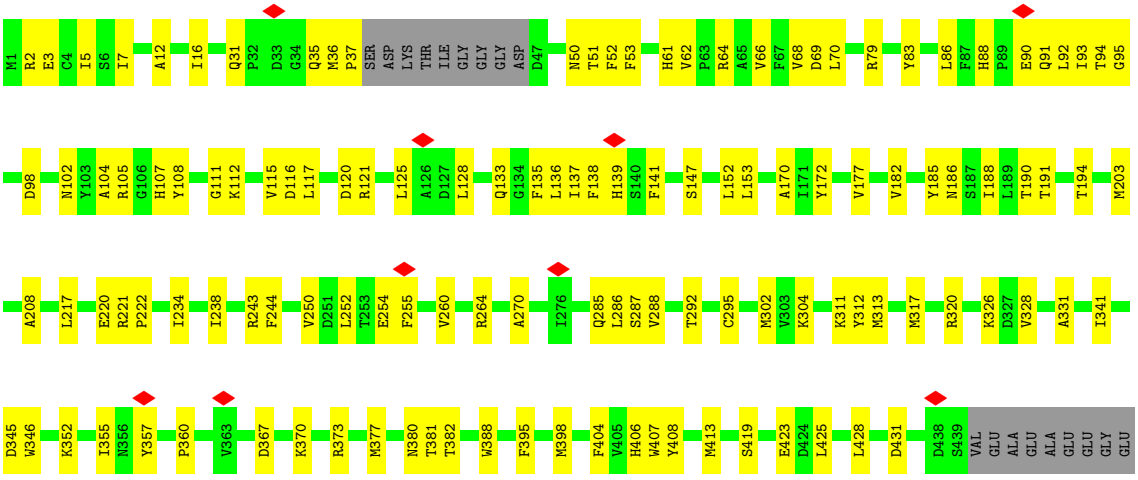
• Molecule 8: Tubulin alpha-3 chain

Chain QC:



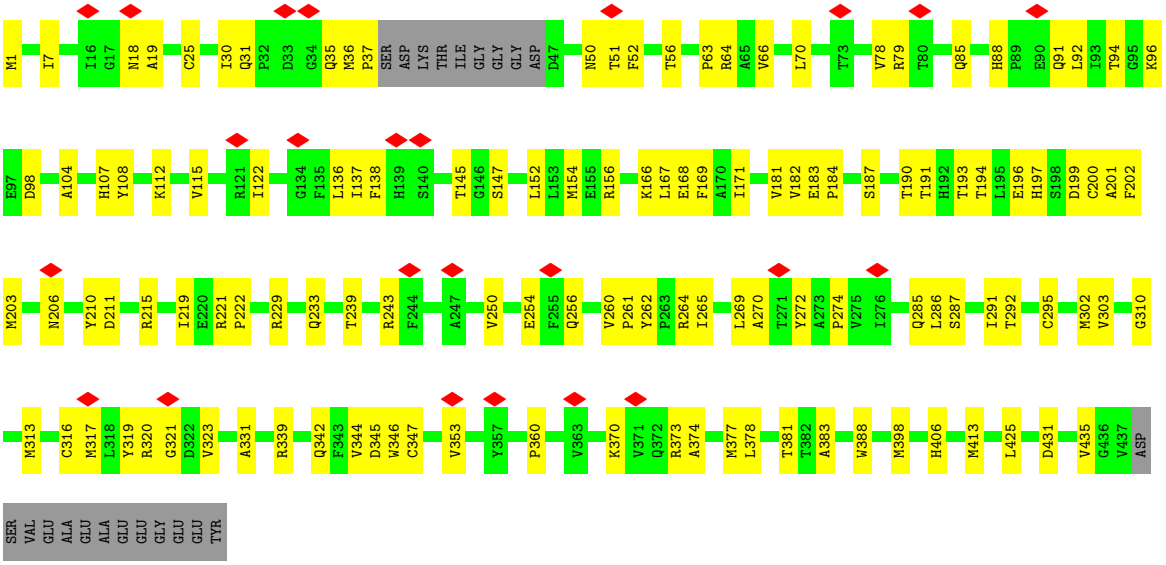
• Molecule 8: Tubulin alpha-3 chain

Chain QE:



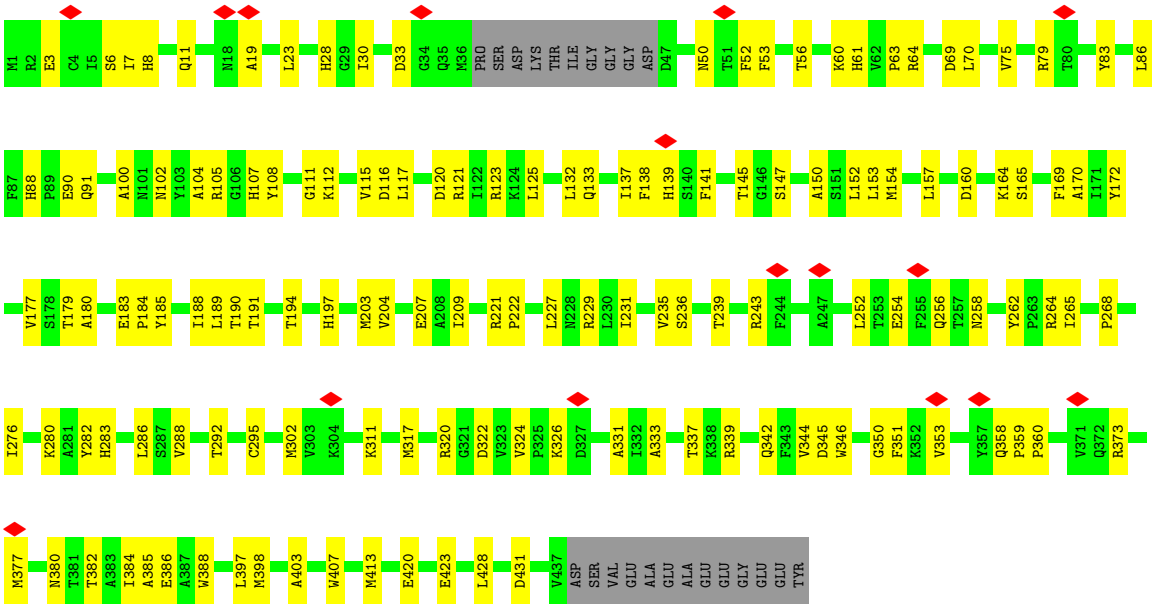
• Molecule 8: Tubulin alpha-3 chain

Chain QG:



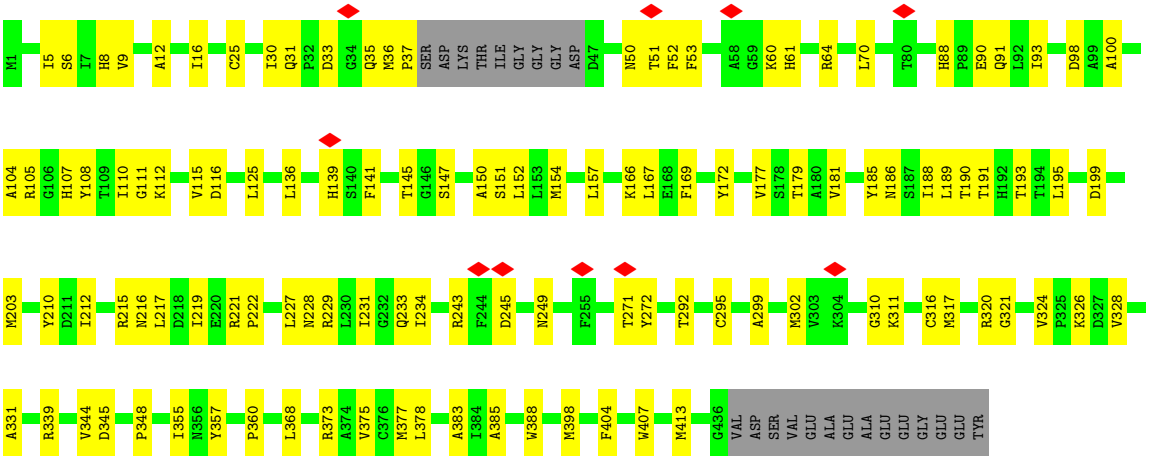
• Molecule 8: Tubulin alpha-3 chain

Chain QI:



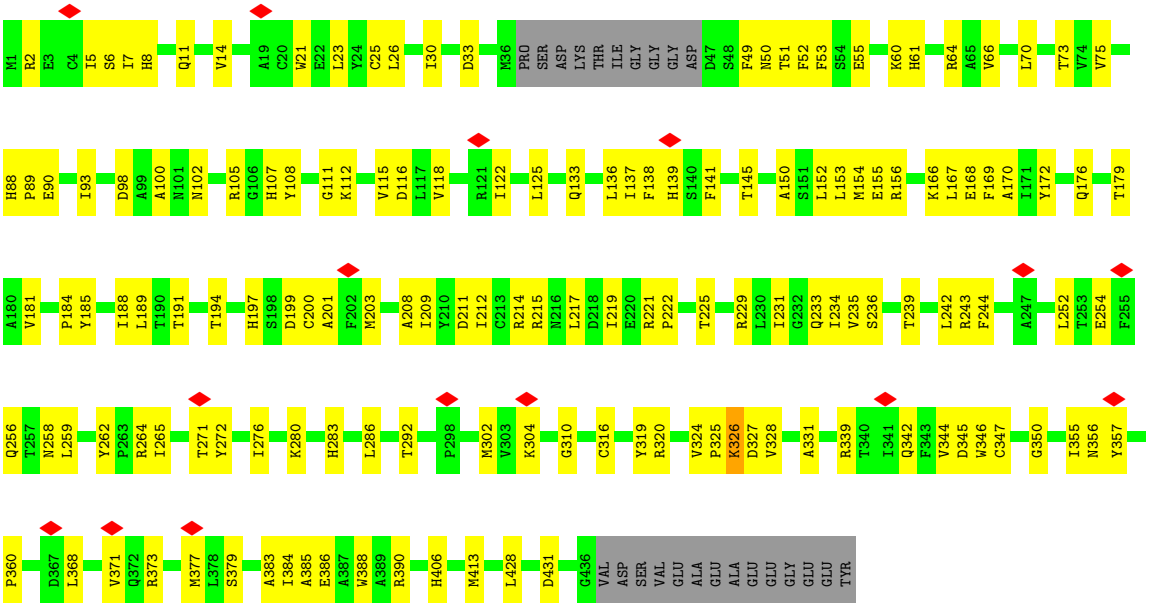
• Molecule 8: Tubulin alpha-3 chain

Chain QK:



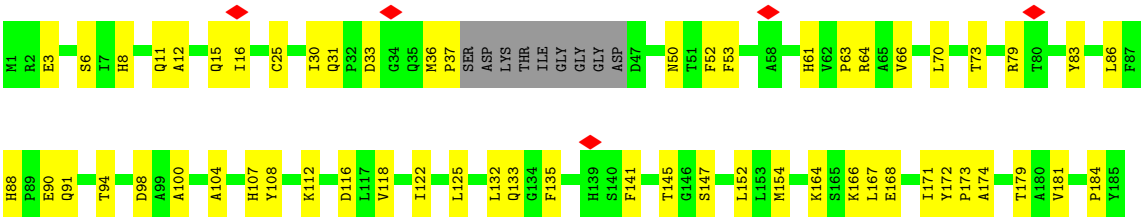
• Molecule 8: Tubulin alpha-3 chain

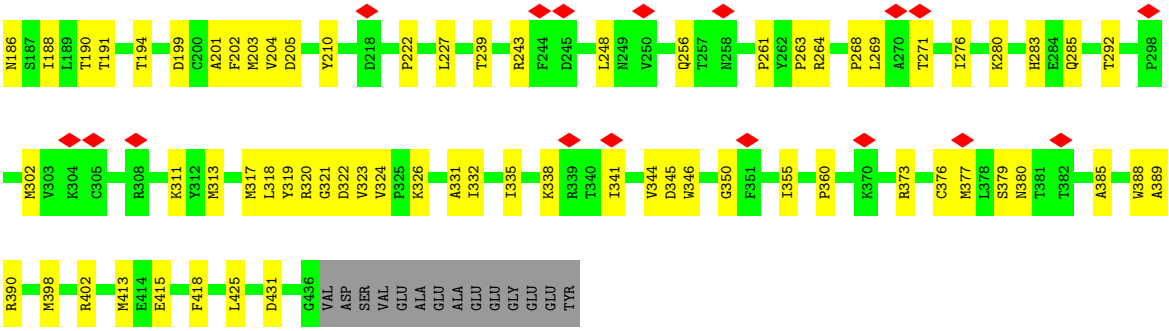
Chain QM:



• Molecule 8: Tubulin alpha-3 chain

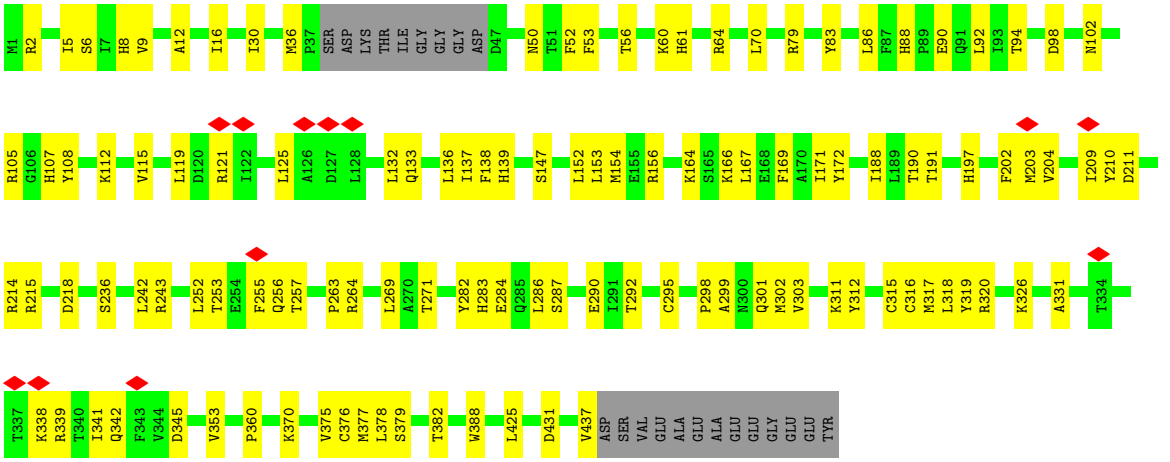
Chain QO:





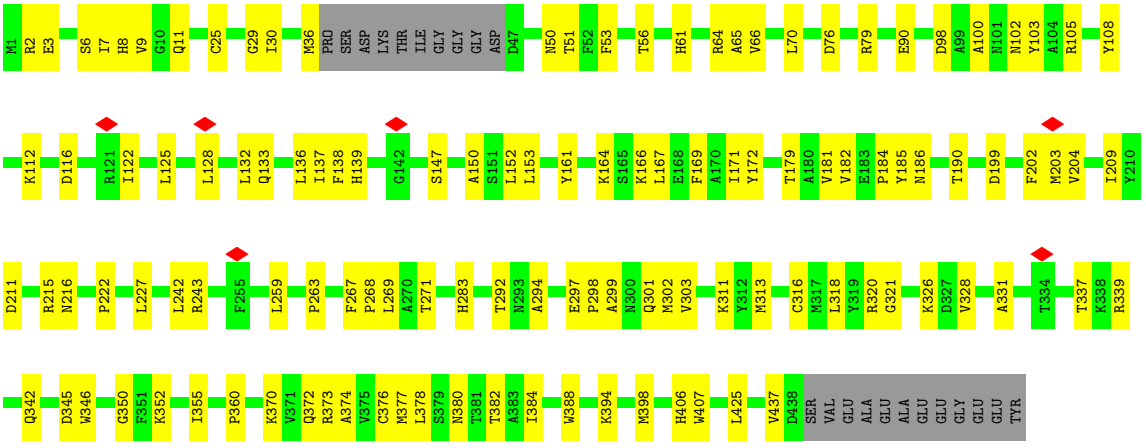
• Molecule 8: Tubulin alpha-3 chain

Chain RC:



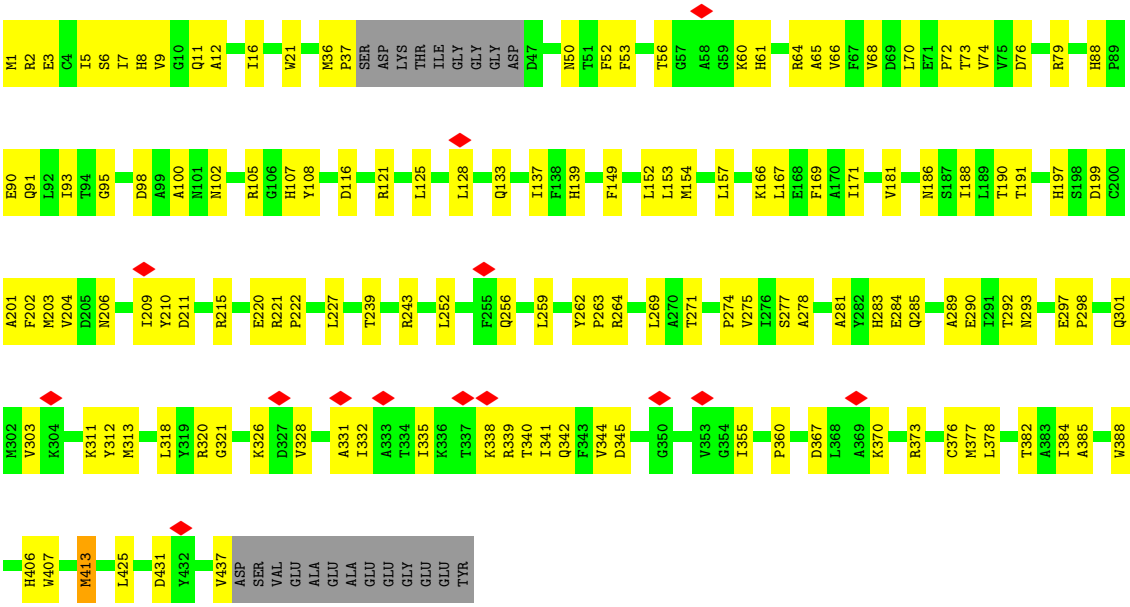
• Molecule 8: Tubulin alpha-3 chain

Chain RE:



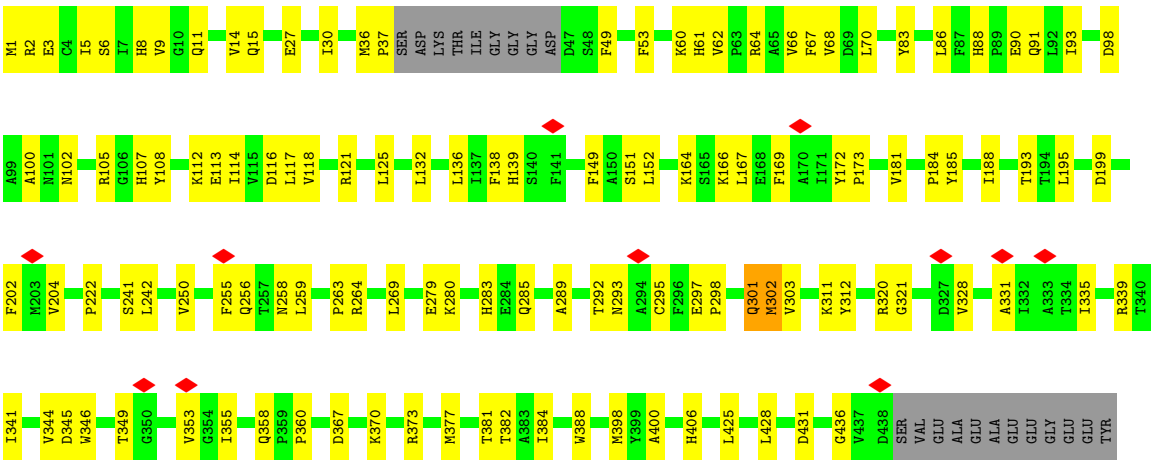
• Molecule 8: Tubulin alpha-3 chain

Chain RG:



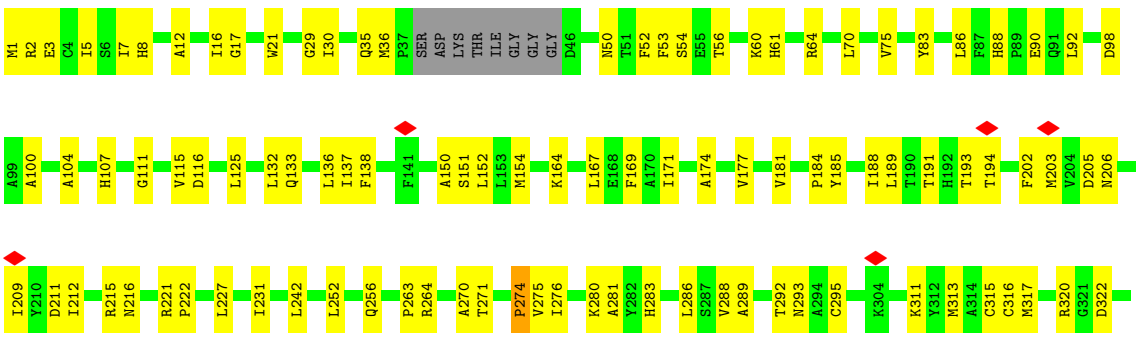
• Molecule 8: Tubulin alpha-3 chain

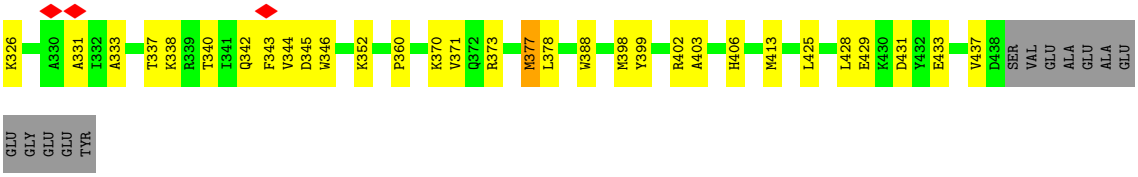
Chain RI:



• Molecule 8: Tubulin alpha-3 chain

Chain RK:





• Molecule 8: Tubulin alpha-3 chain

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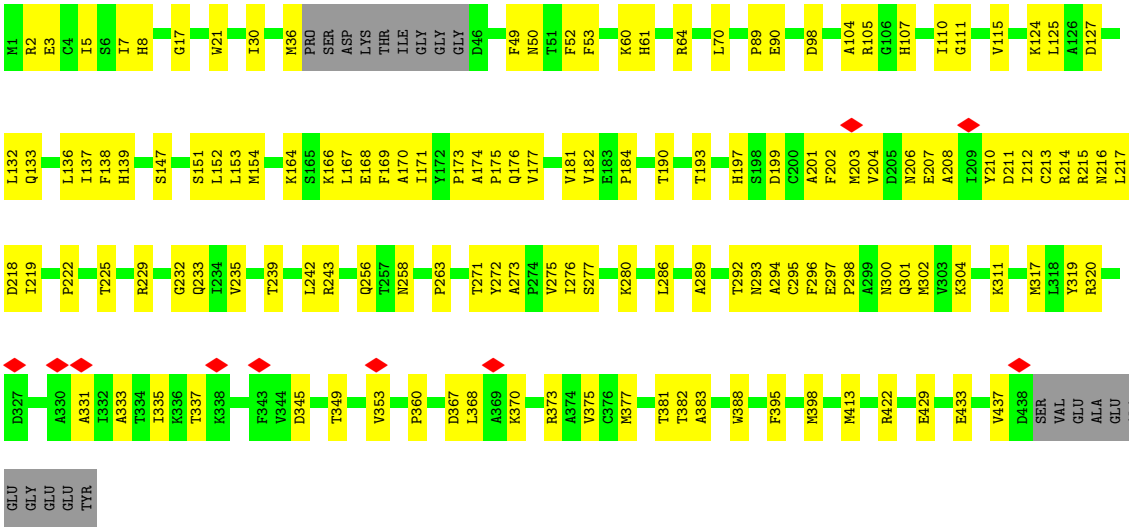
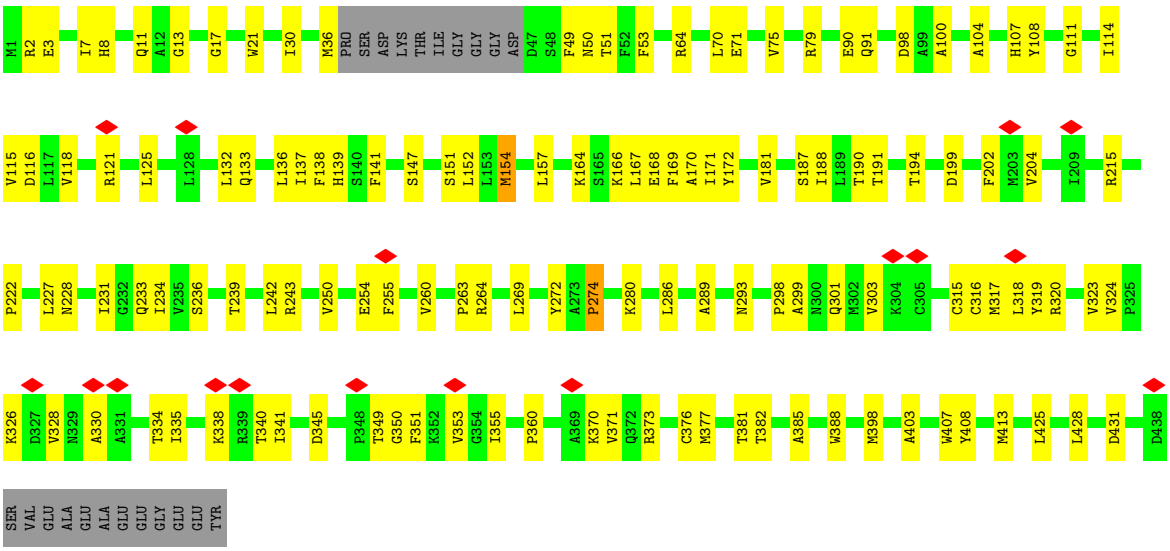


• Molecule 8: Tubulin alpha-3 chain

Chain RO:



• Molecule 8: Tubulin alpha-3 chain

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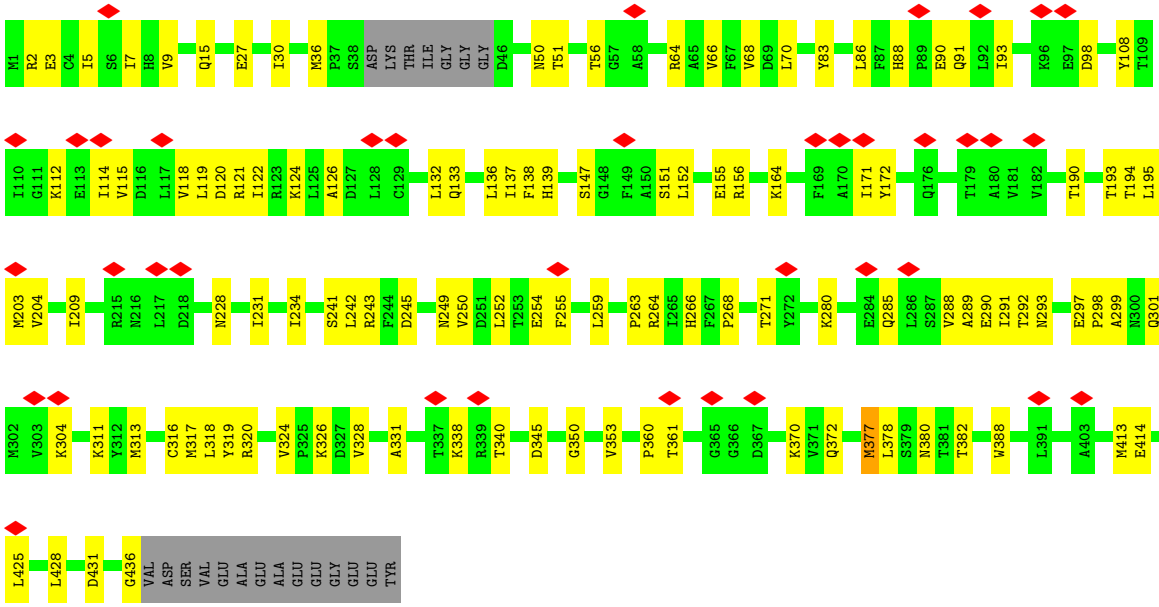
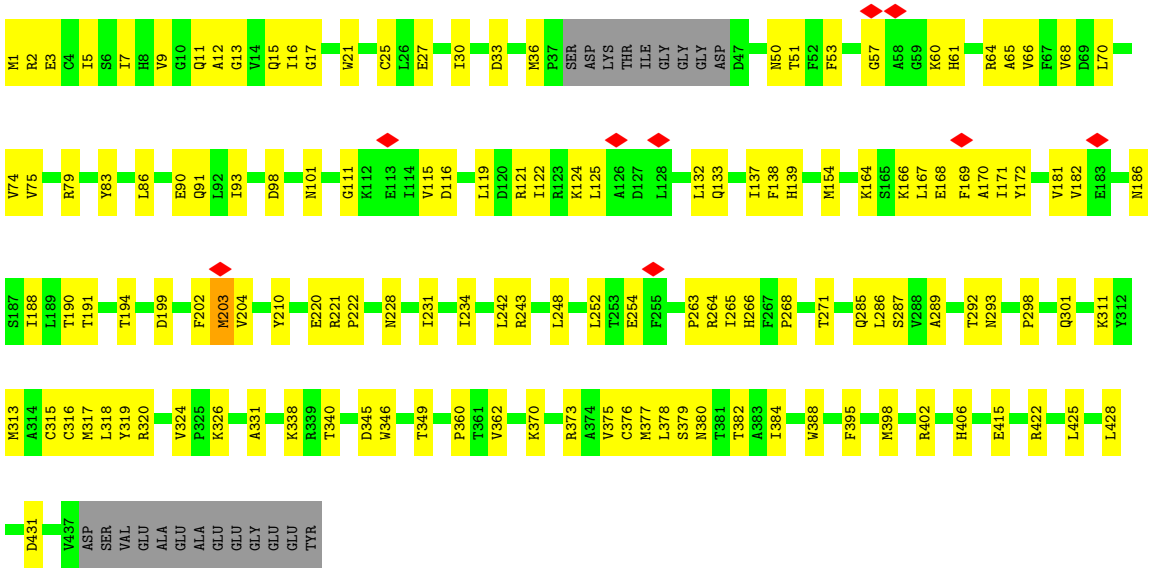


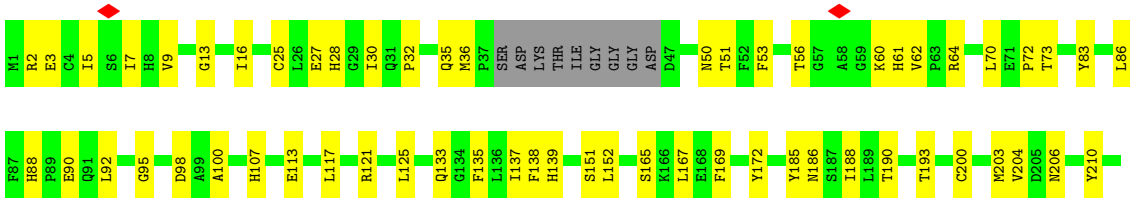
• Molecule 8: Tubulin alpha-3 chain

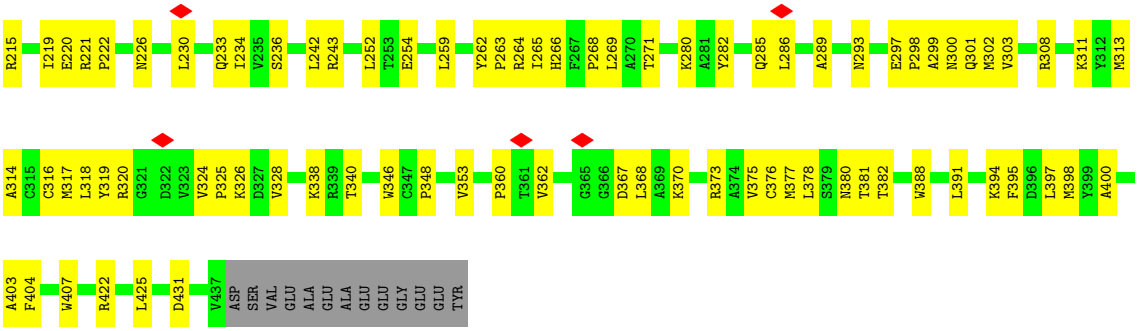
Chain SC:



• Molecule 8: Tubulin alpha-3 chain

Chain SE:





• Molecule 8: Tubulin alpha-3 chain

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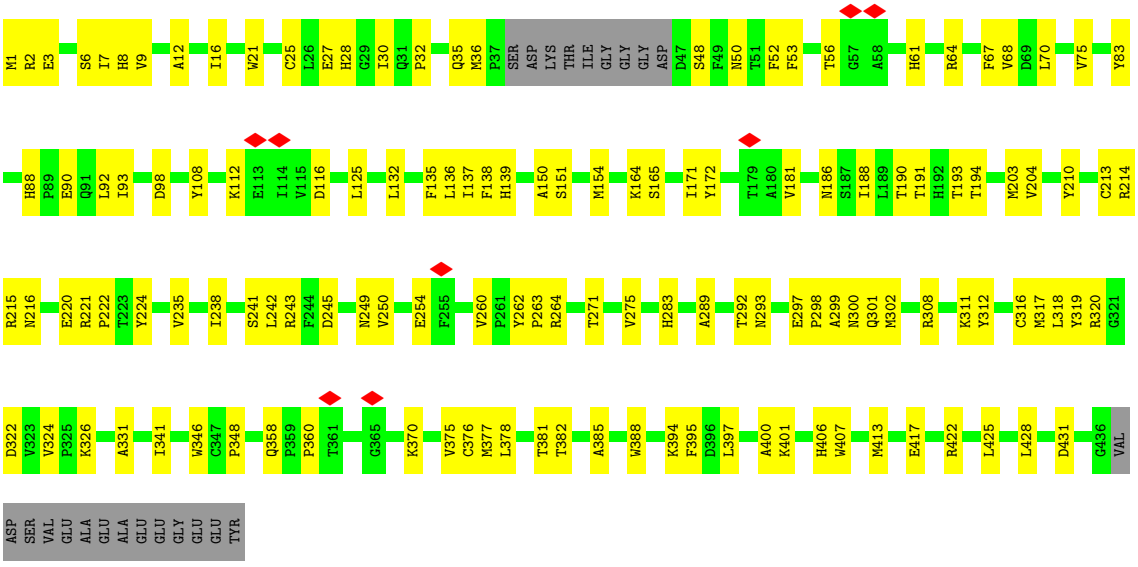
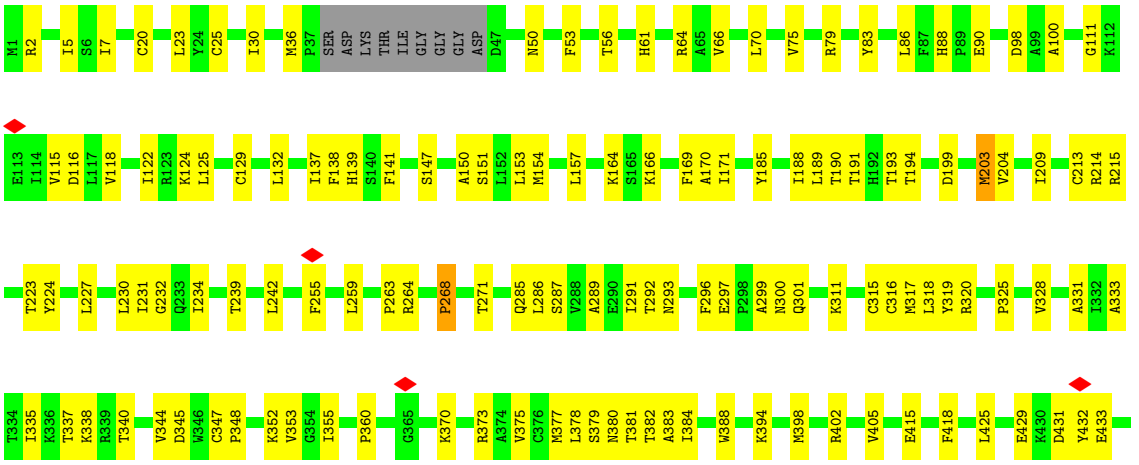
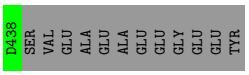


• Molecule 8: Tubulin alpha-3 chain

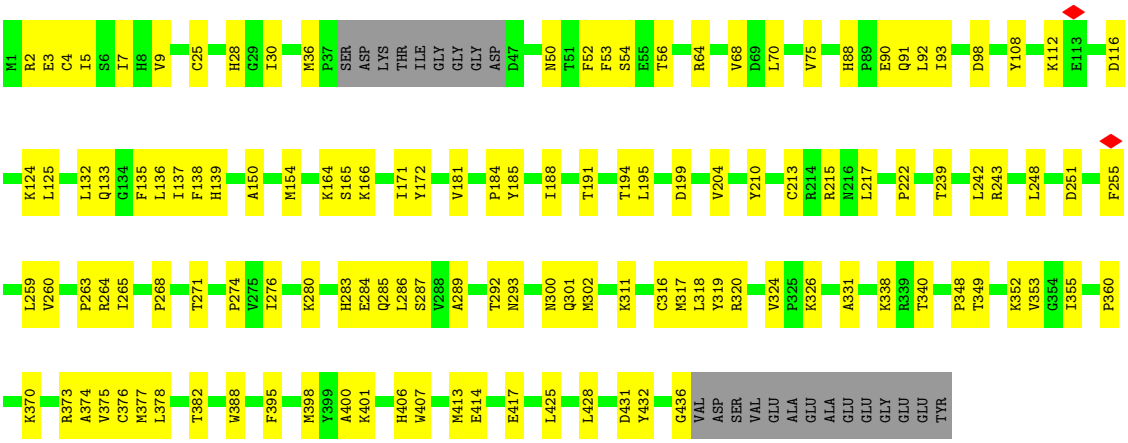
Chain SI:





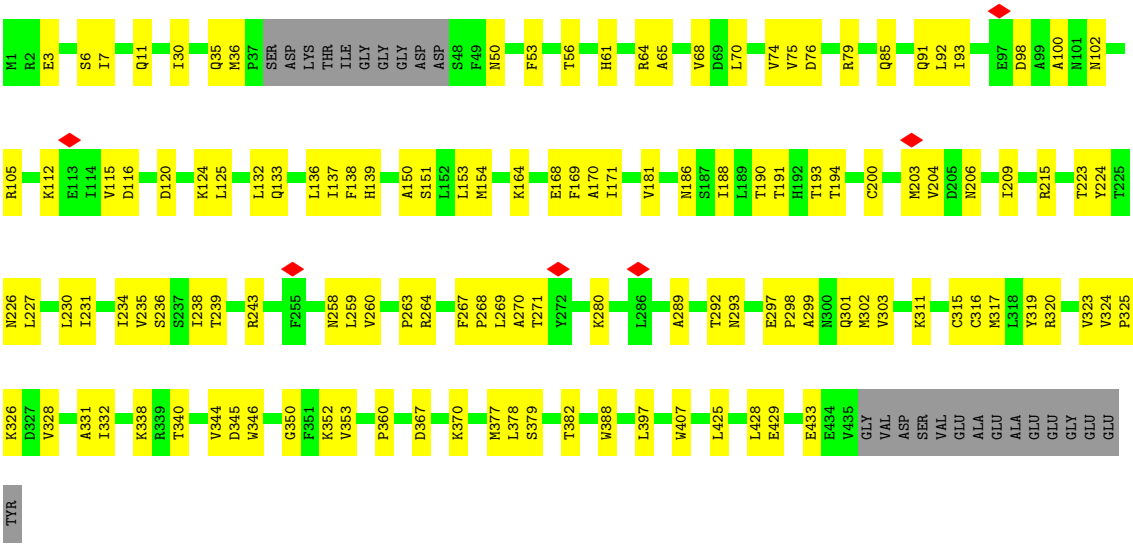
• Molecule 8: Tubulin alpha-3 chain

Chain SK:



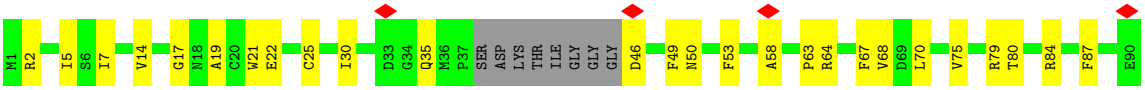
• Molecule 8: Tubulin alpha-3 chain

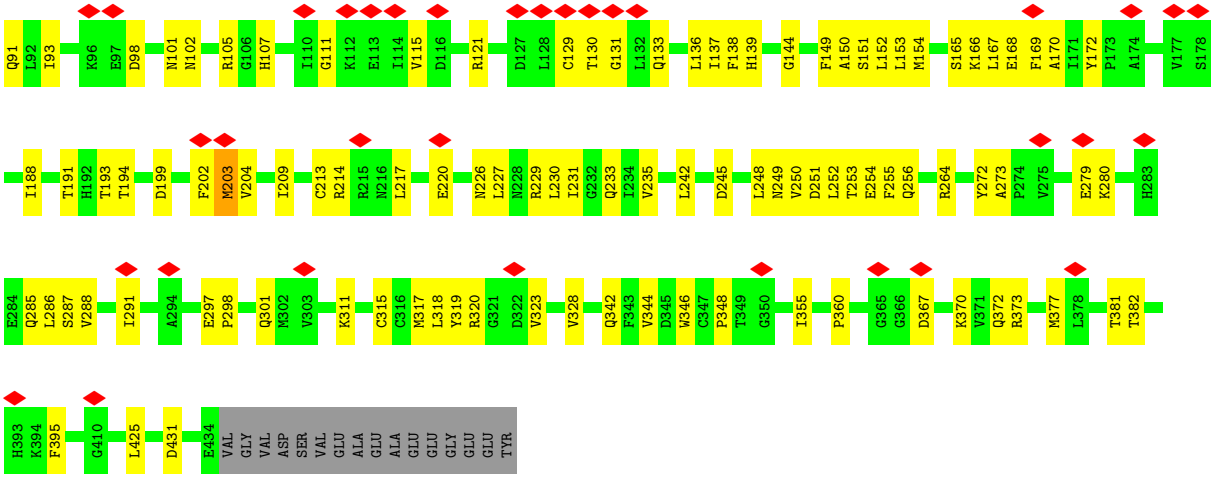
Chain SM:



• Molecule 8: Tubulin alpha-3 chain

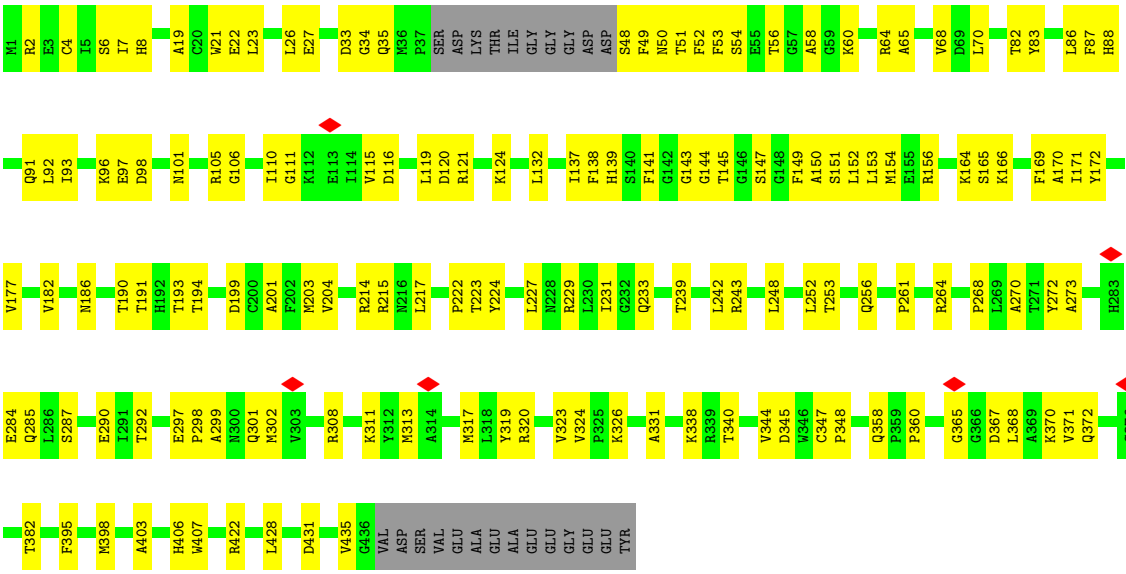
Chain TA:





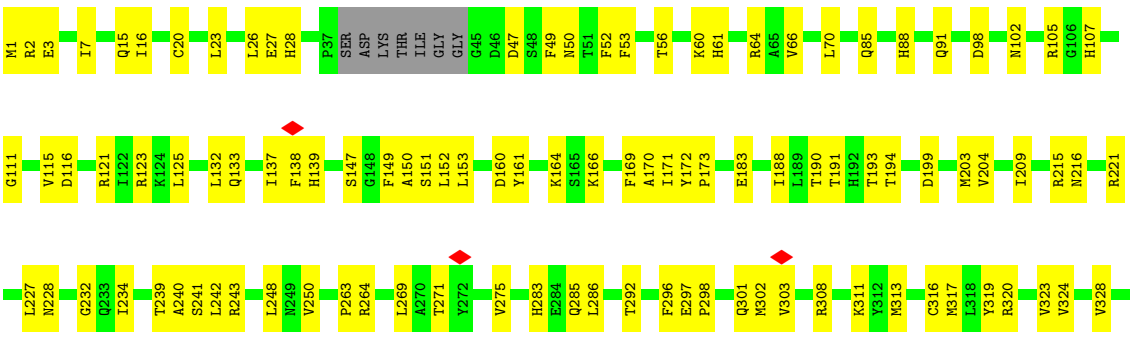
• Molecule 8: Tubulin alpha-3 chain

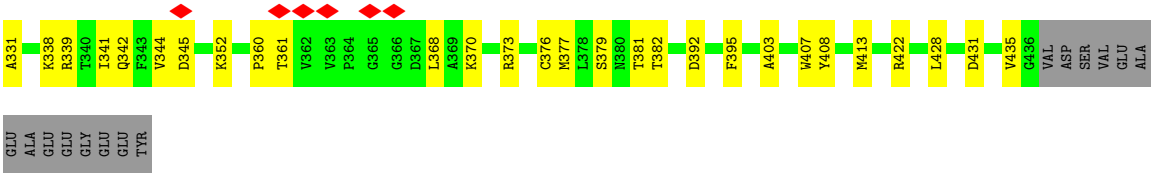
Chain TC:



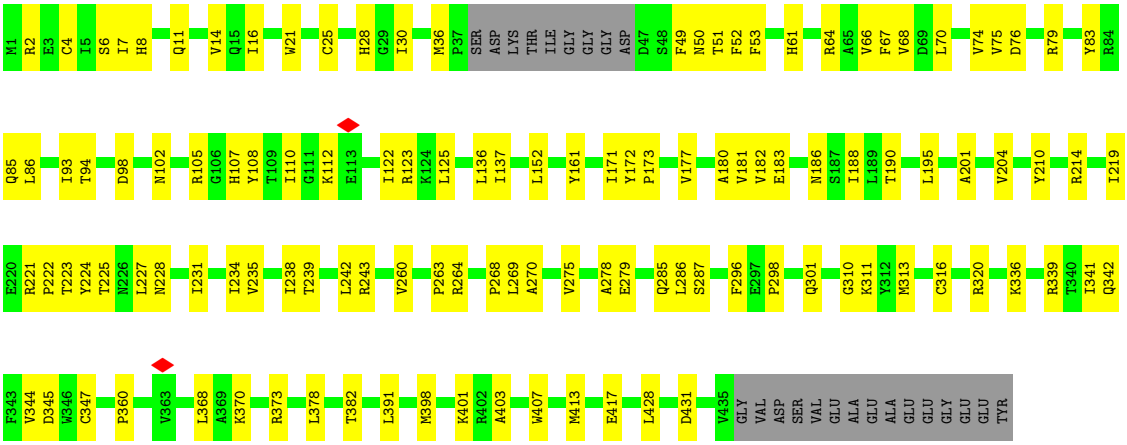
• Molecule 8: Tubulin alpha-3 chain

Chain TE:

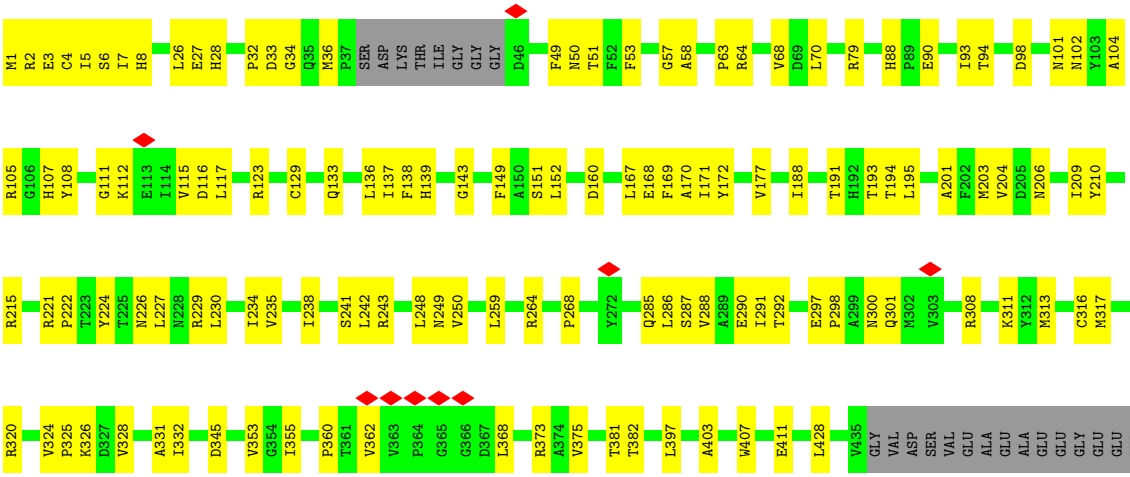




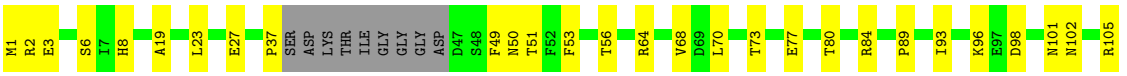
• Molecule 8: Tubulin alpha-3 chain

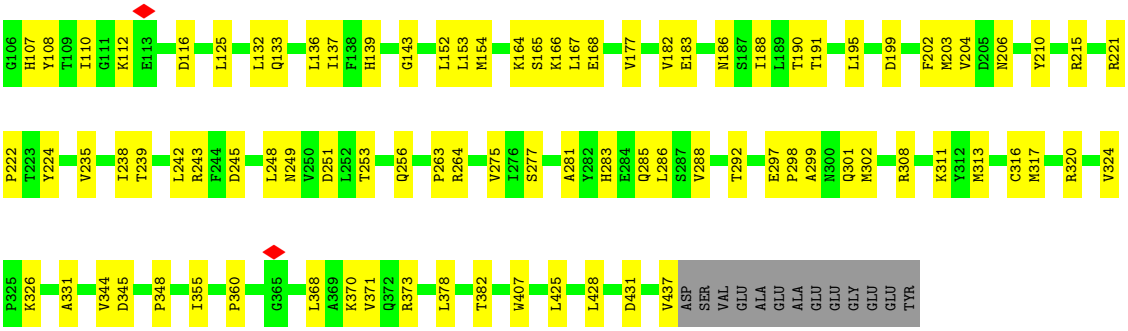


• Molecule 8: Tubulin alpha-3 chain



• Molecule 8: Tubulin alpha-3 chain





• Molecule 8: Tubulin alpha-3 chain

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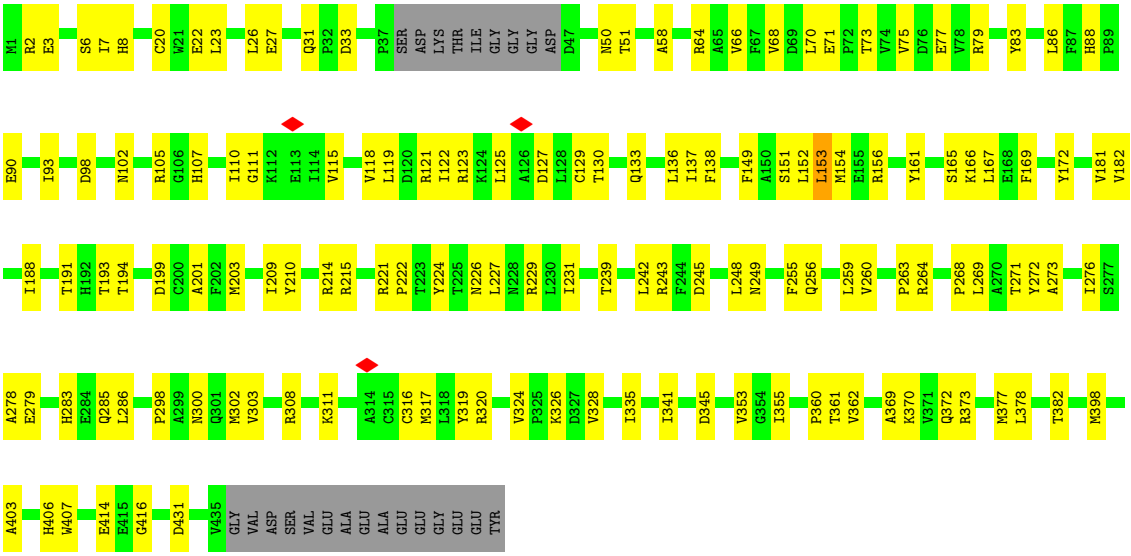

• Molecule 8: Tubulin alpha-3 chain

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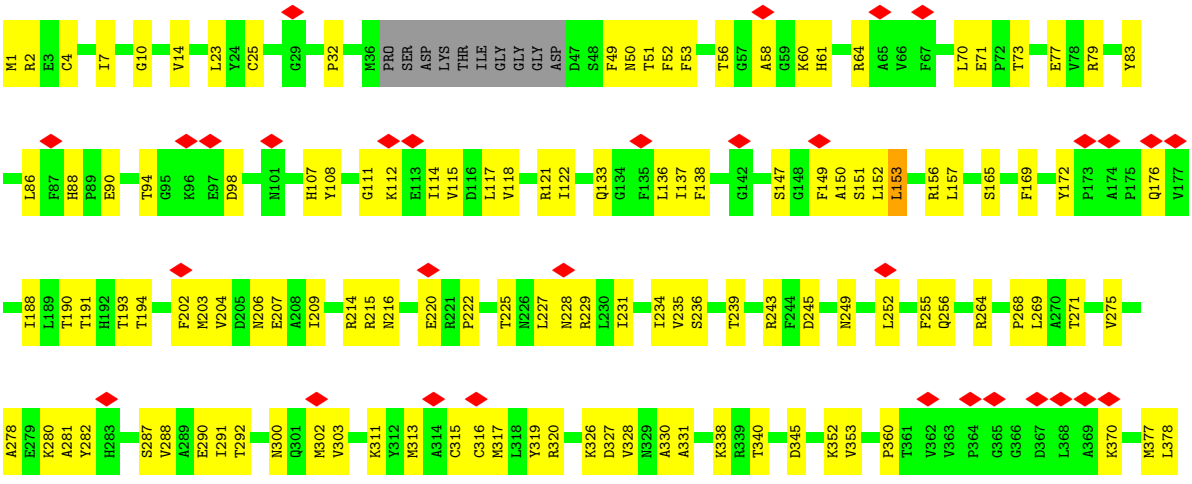
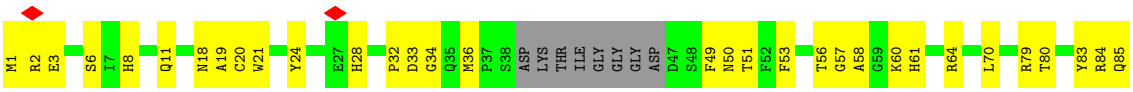
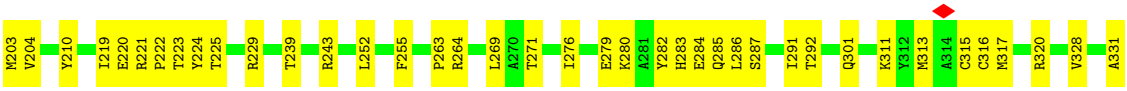
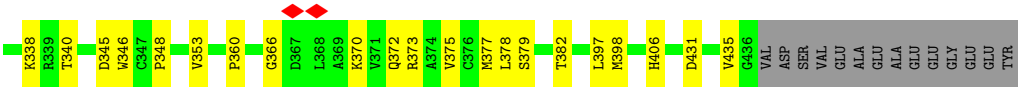


• Molecule 8: Tubulin alpha-3 chain

Chain UC:

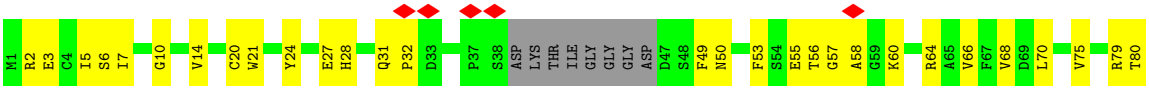


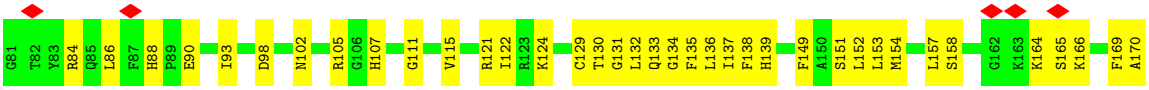


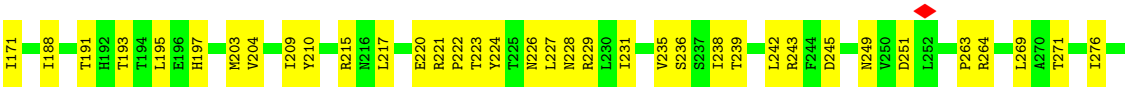


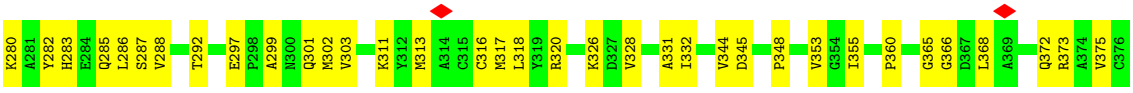
• Molecule 8: Tubulin alpha-3 chain

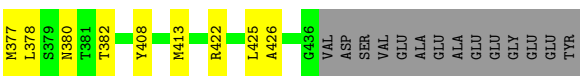
Chain UE:





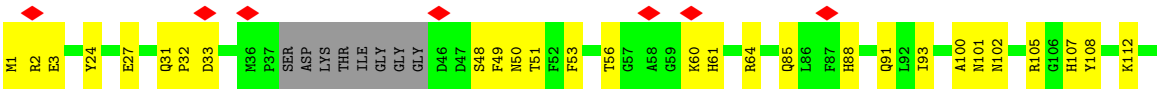


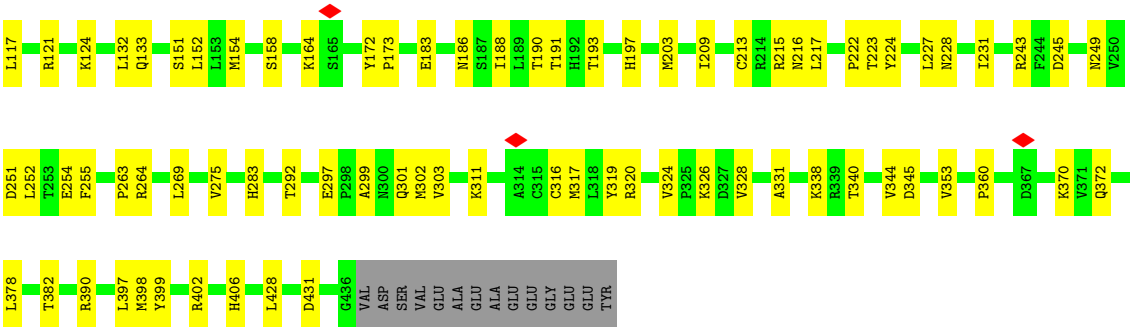




• Molecule 8: Tubulin alpha-3 chain

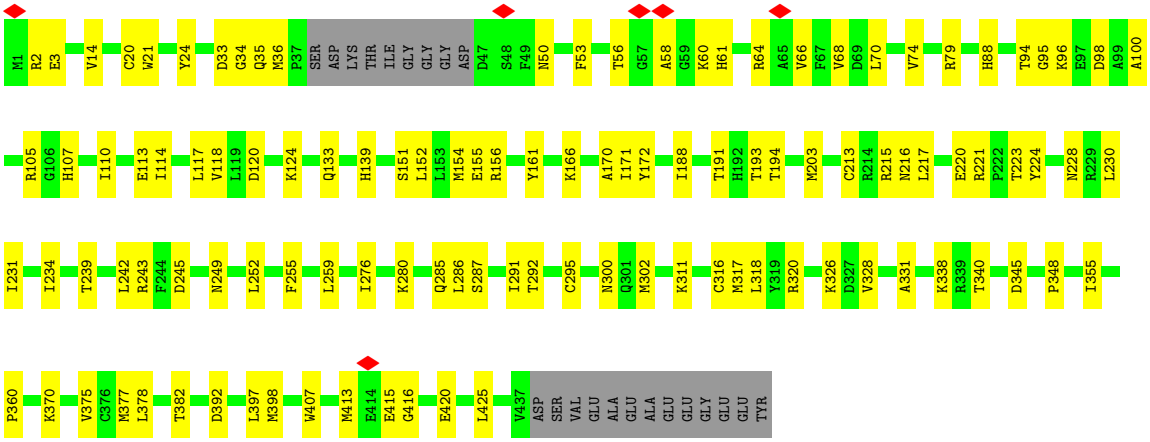
Chain UG:





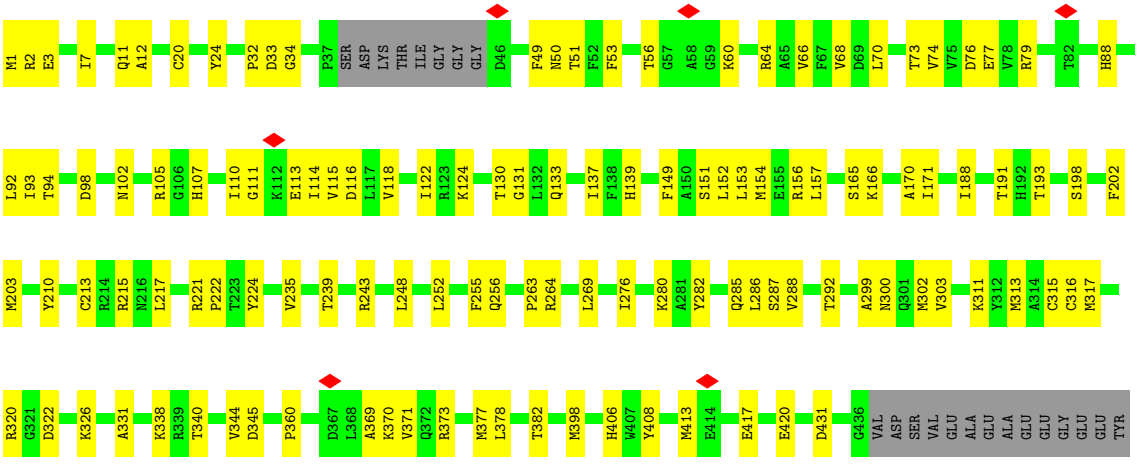
• Molecule 8: Tubulin alpha-3 chain

Chain UI:



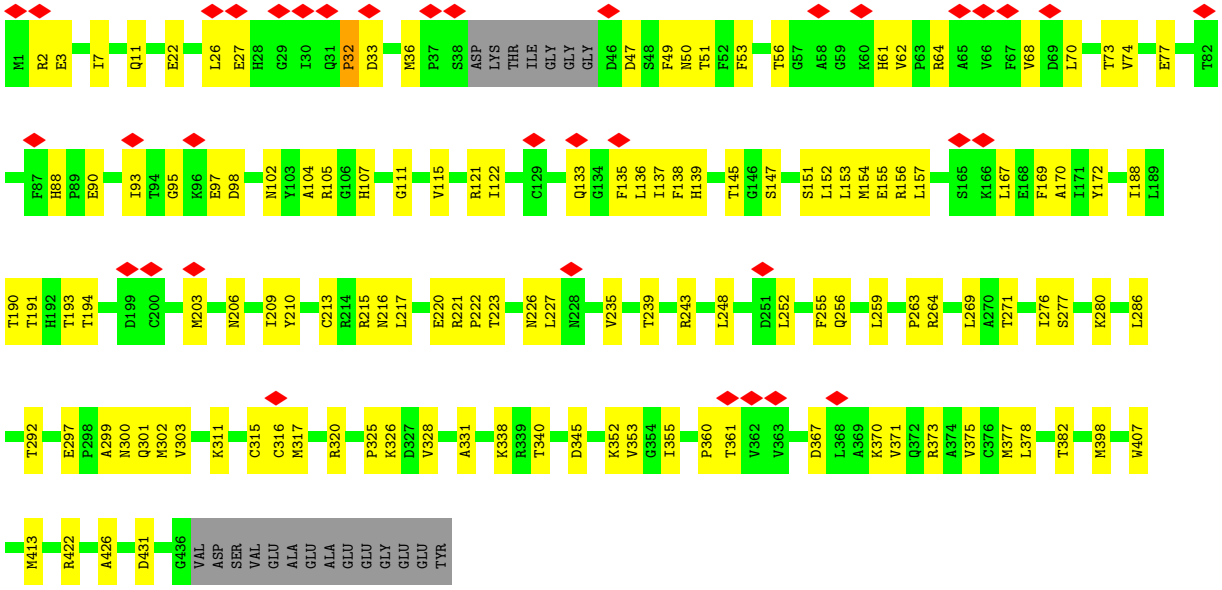
• Molecule 8: Tubulin alpha-3 chain

Chain UK:



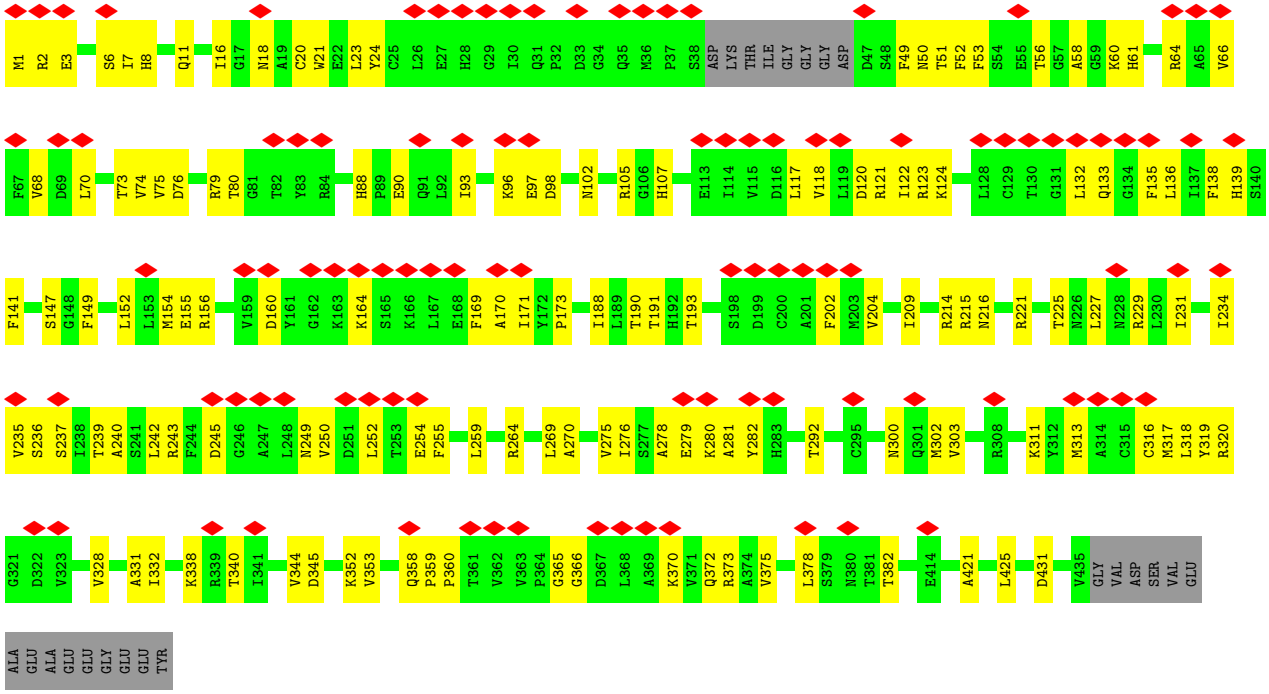
• Molecule 8: Tubulin alpha-3 chain

Chain UM:



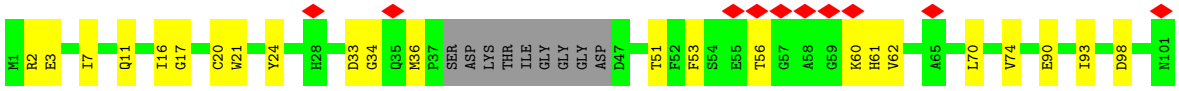
• Molecule 8: Tubulin alpha-3 chain

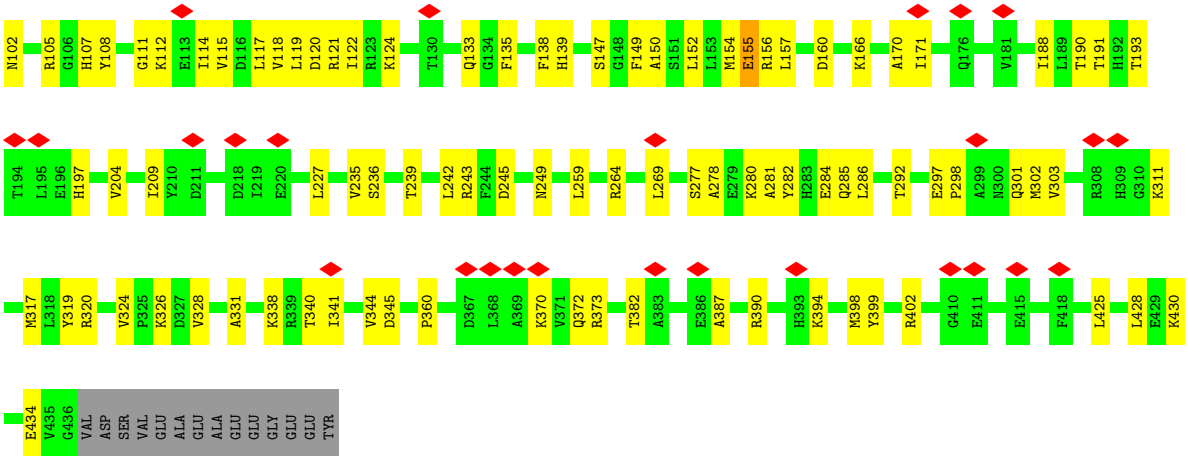
Chain UO:



• Molecule 8: Tubulin alpha-3 chain

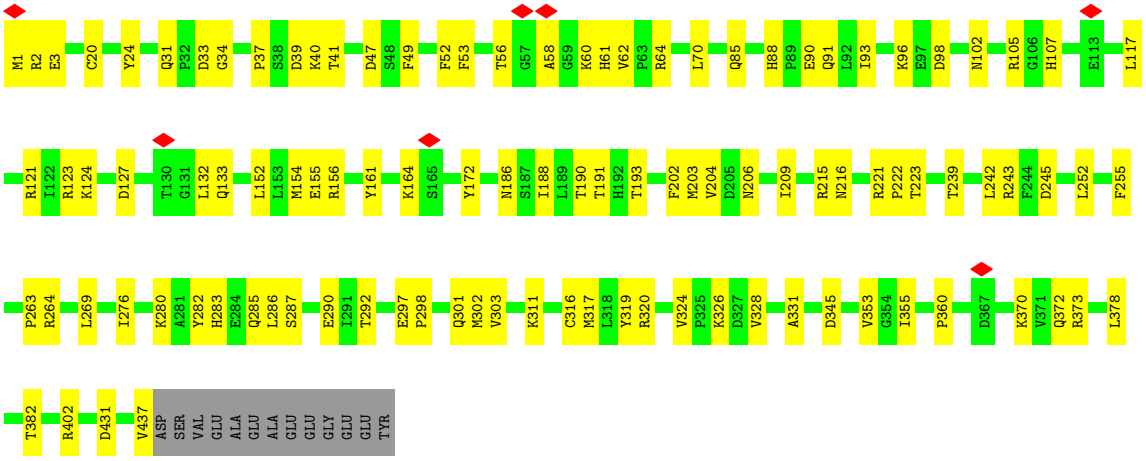
Chain VA:





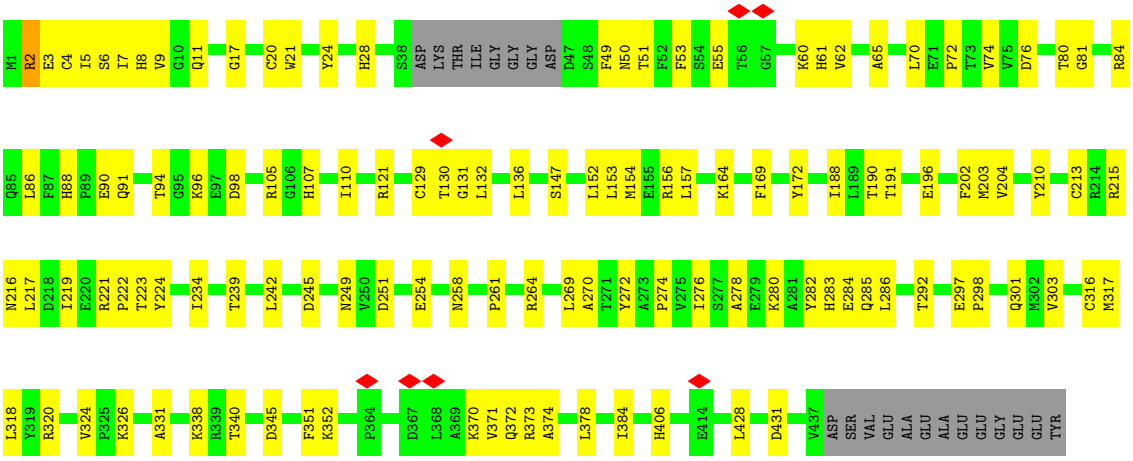
• Molecule 8: Tubulin alpha-3 chain

Chain VC:



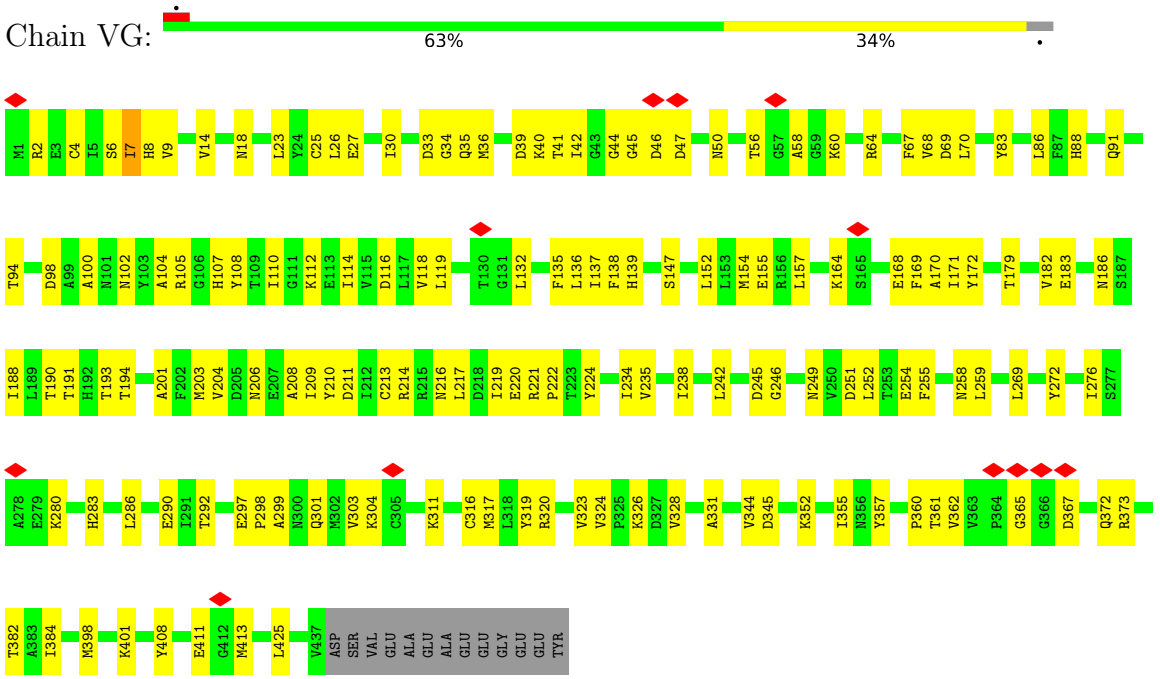
• Molecule 8: Tubulin alpha-3 chain

Chain VE:



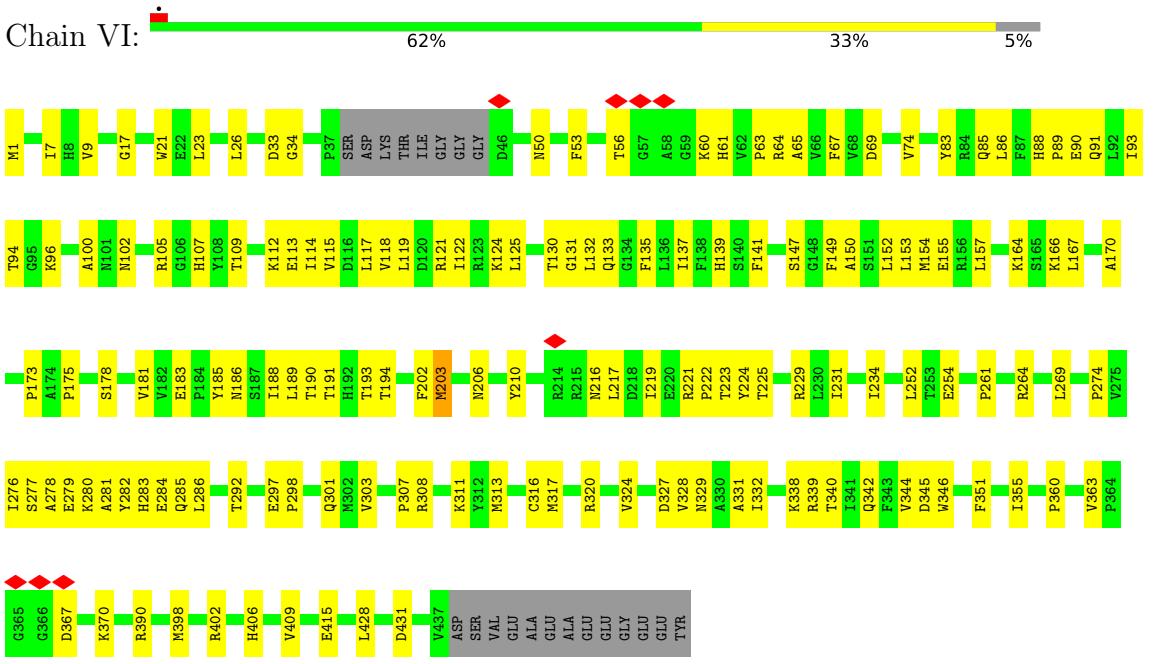
• Molecule 8: Tubulin alpha-3 chain

Chain VG:



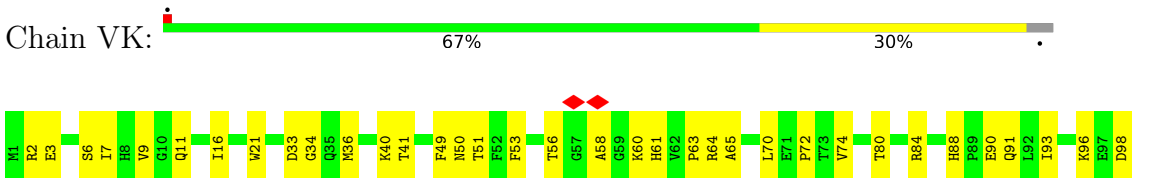
• Molecule 8: Tubulin alpha-3 chain

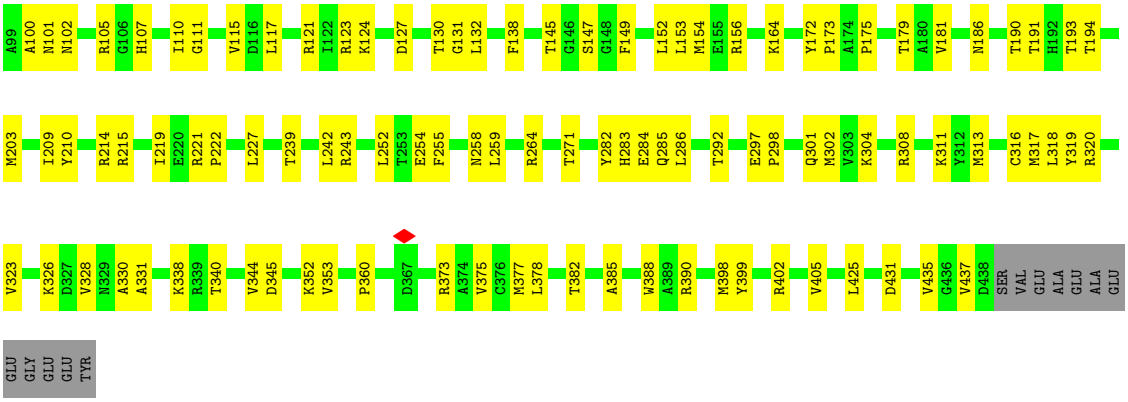
Chain VI:



• Molecule 8: Tubulin alpha-3 chain

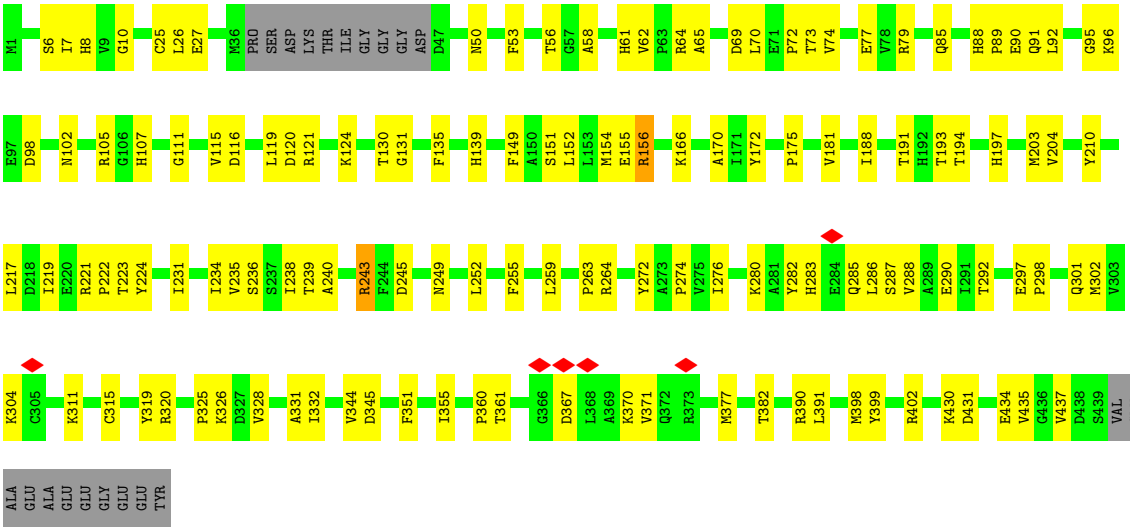
Chain VK:





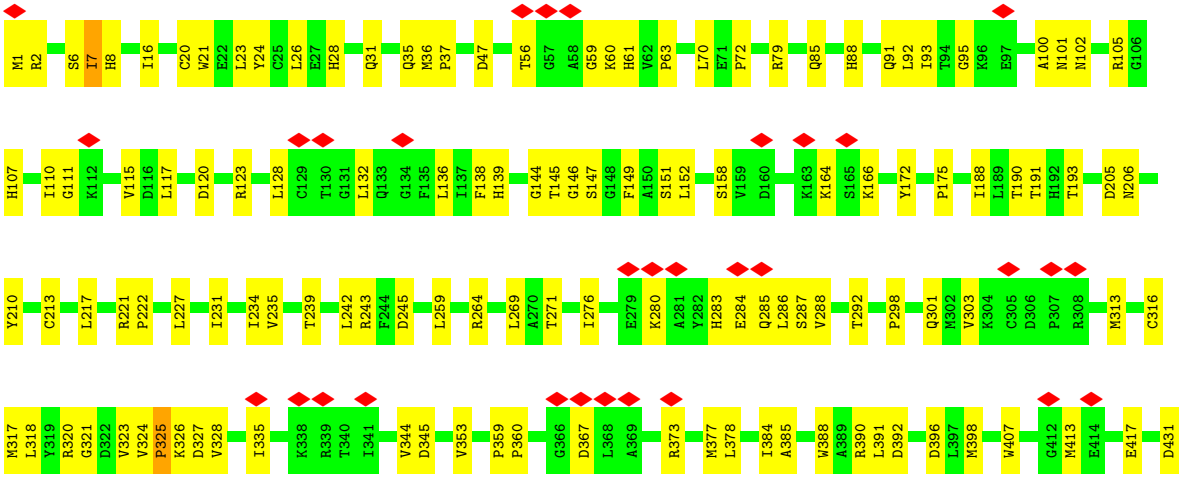
• Molecule 8: Tubulin alpha-3 chain

Chain VM:



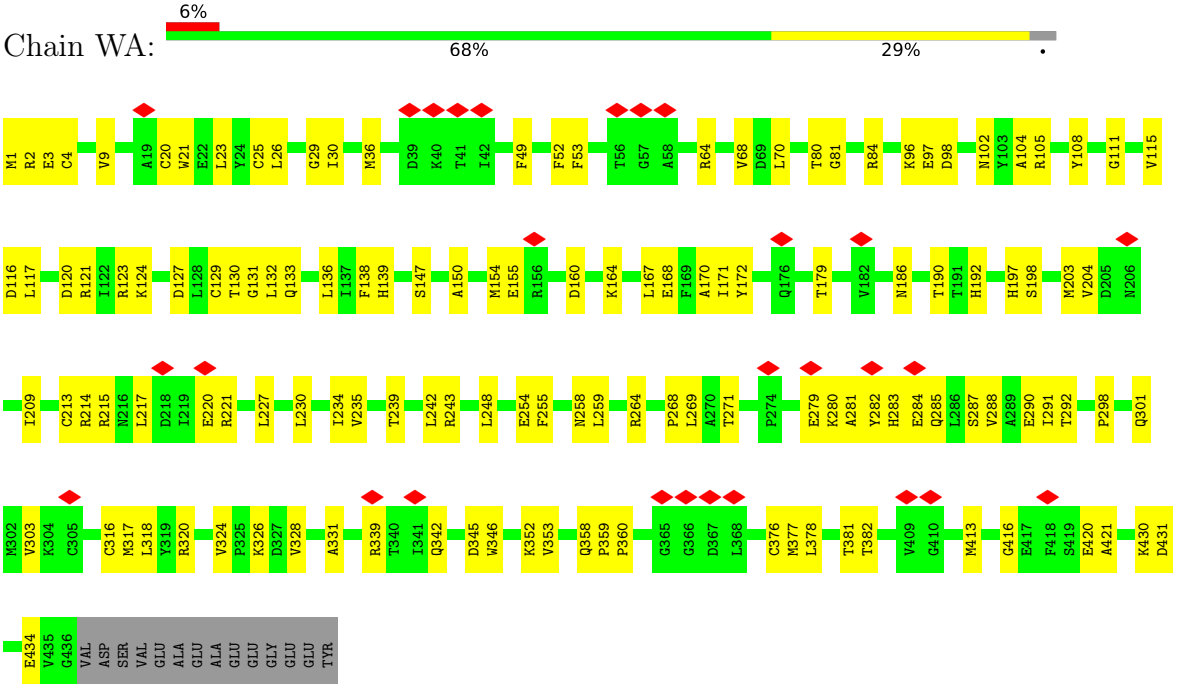
• Molecule 8: Tubulin alpha-3 chain

Chain VO:



• Molecule 8: Tubulin alpha-3 chain

Chain WA:



• Molecule 8: Tubulin alpha-3 chain

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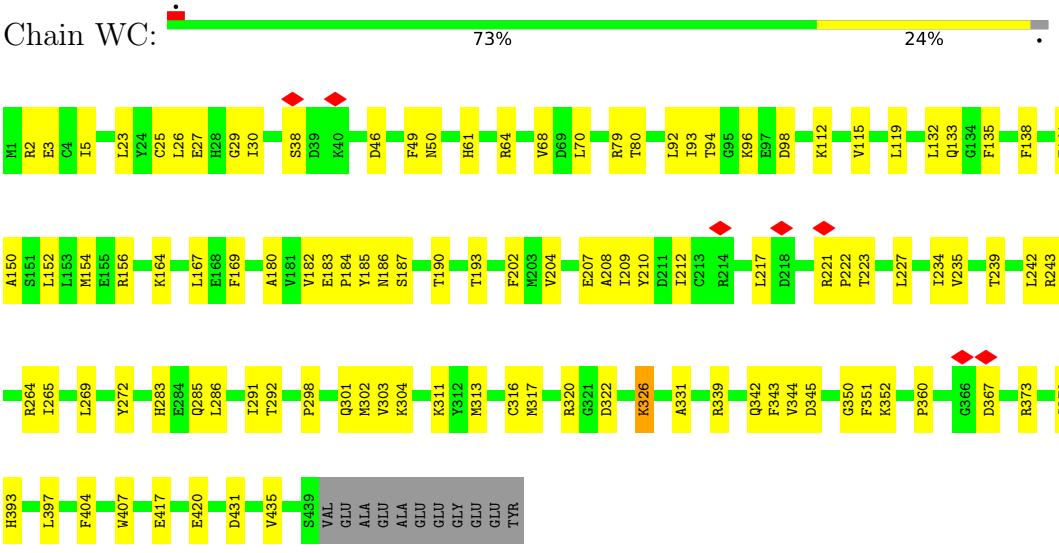
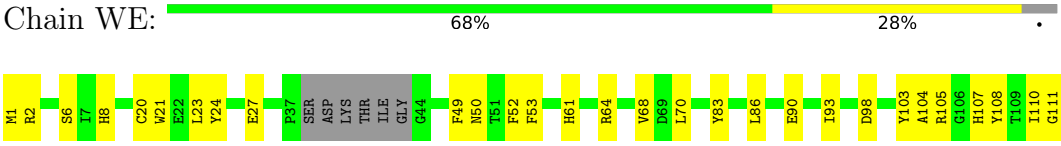
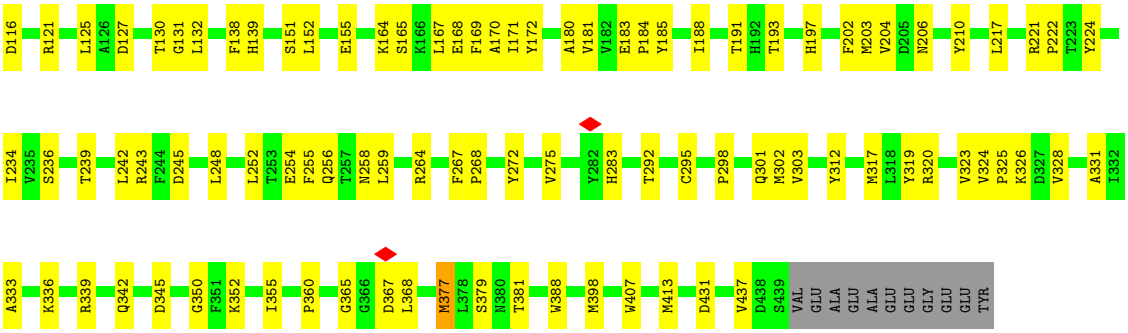


• Molecule 8: Tubulin alpha-3 chain

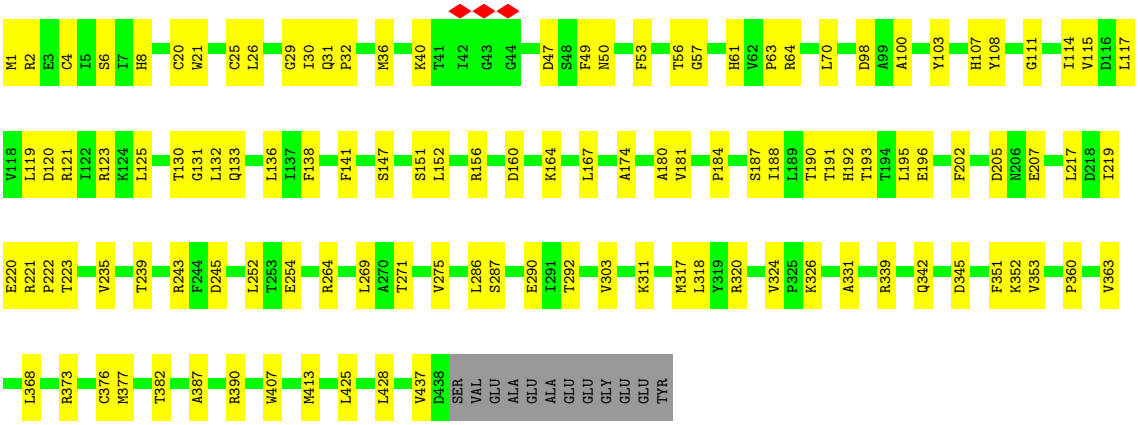
Chain WE:





• Molecule 8: Tubulin alpha-3 chain

Chain WG:



• Molecule 8: Tubulin alpha-3 chain

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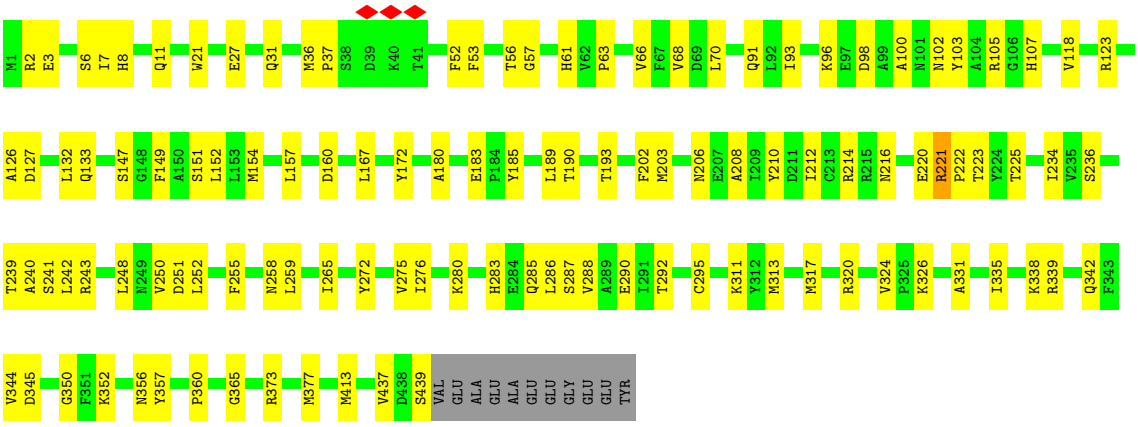

• Molecule 8: Tubulin alpha-3 chain

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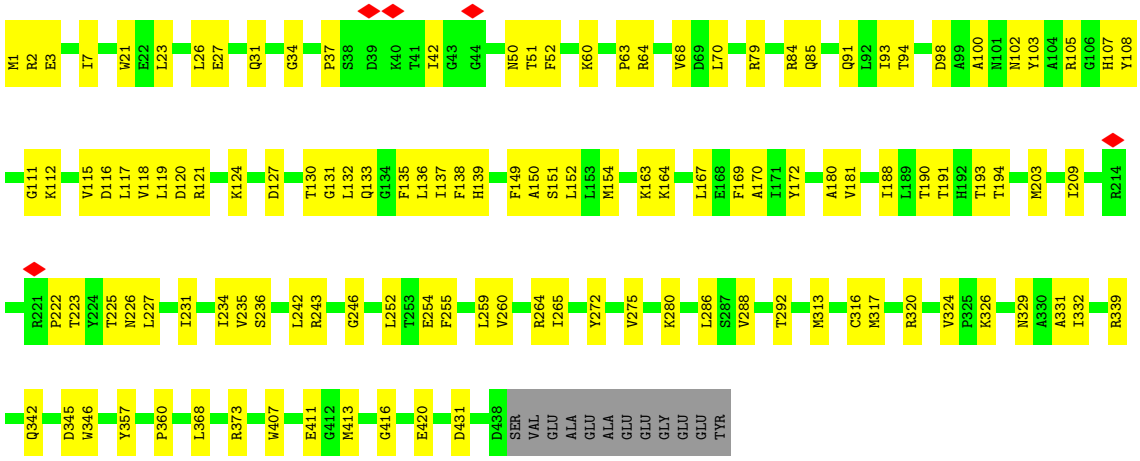

• Molecule 8: Tubulin alpha-3 chain

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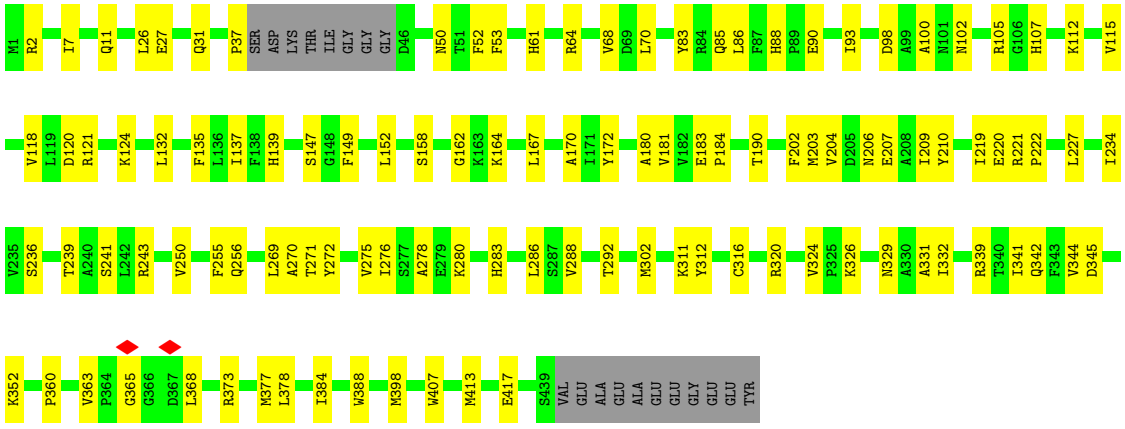

• Molecule 8: Tubulin alpha-3 chain

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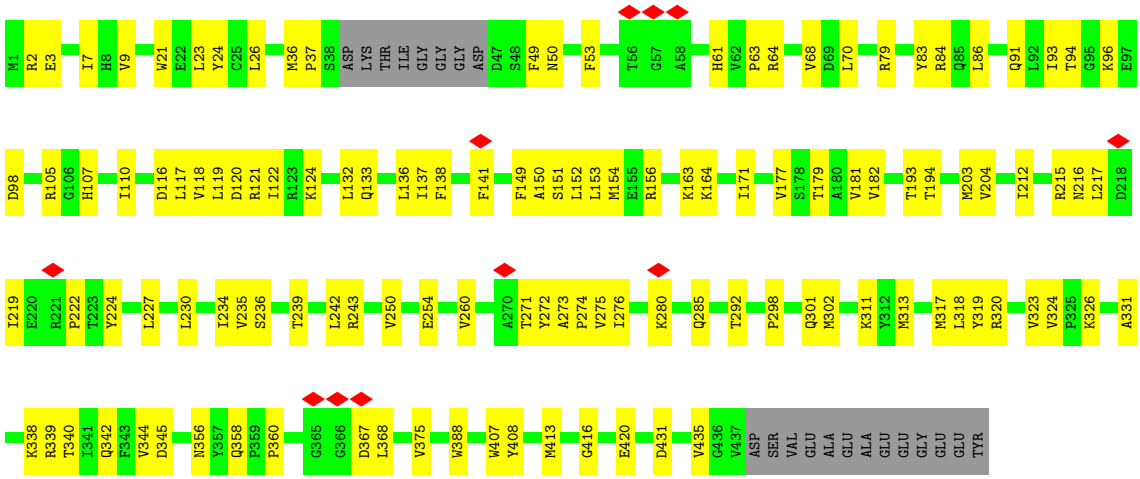
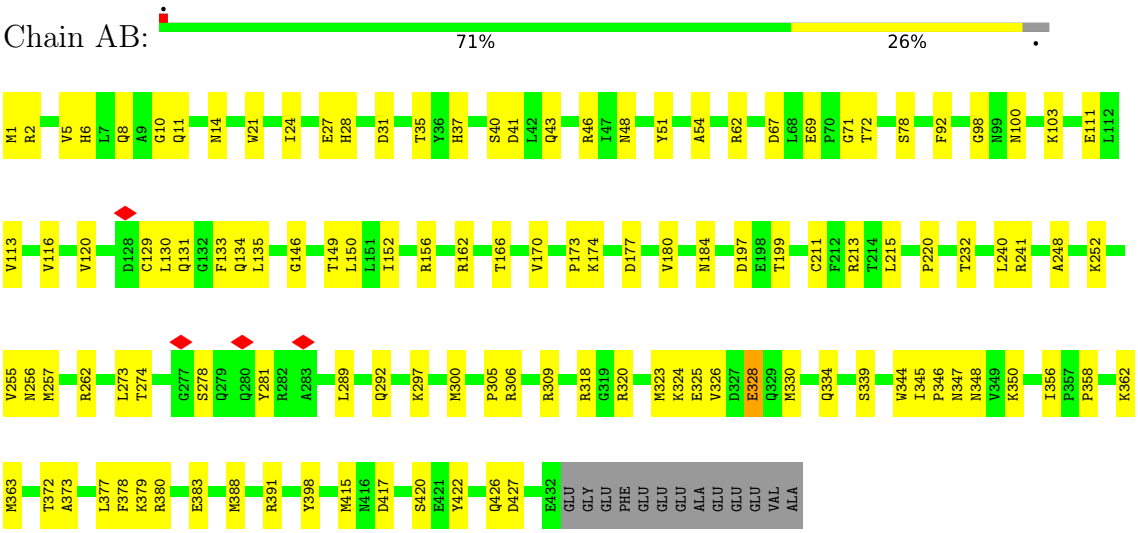


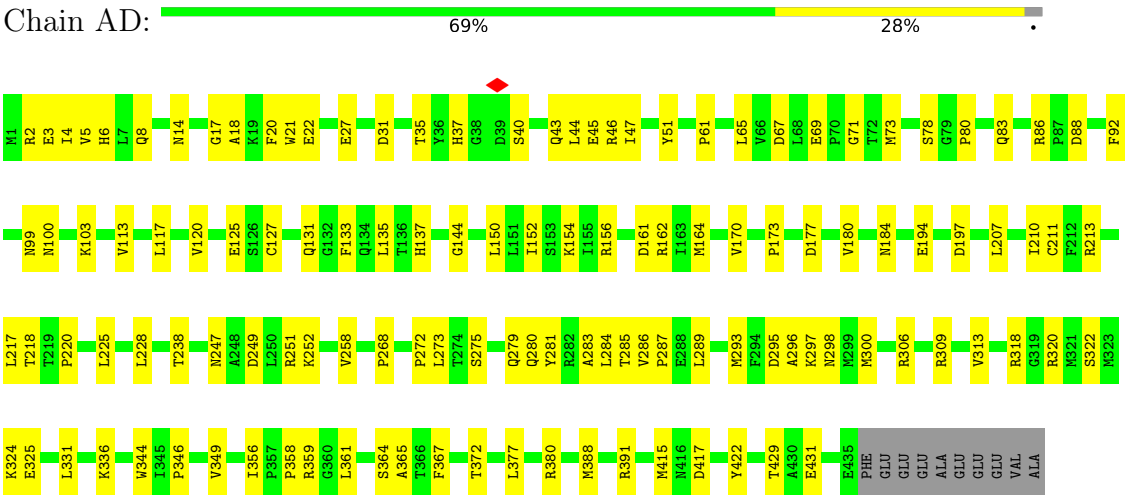
• Molecule 9: Tubulin beta-4B chain

Chain AB:



• Molecule 9: Tubulin beta-4B chain

Chain AD:



• Molecule 9: Tubulin beta-4B chain

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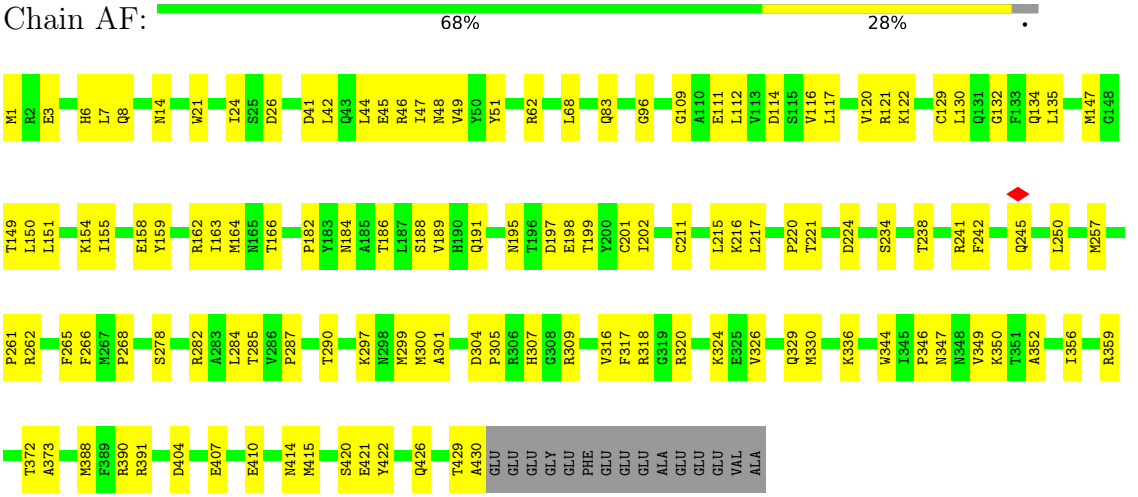
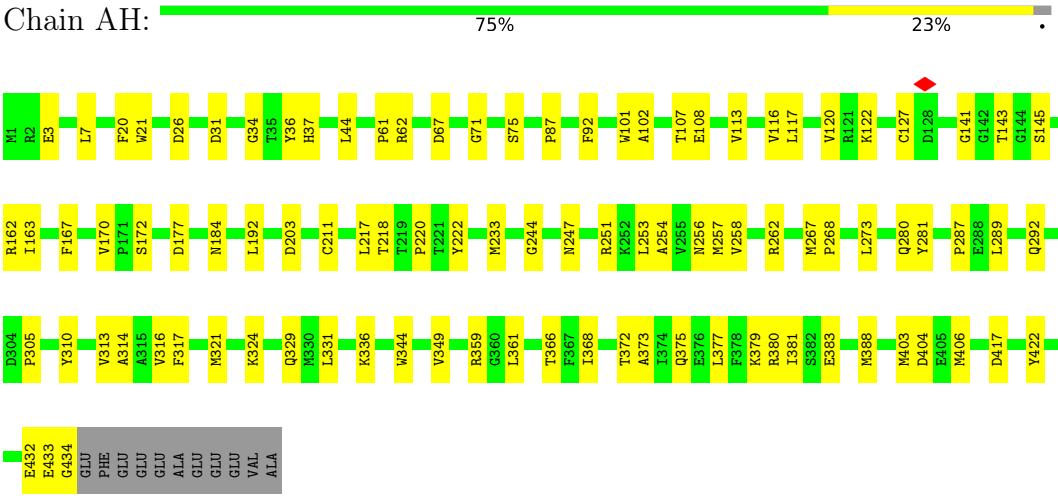


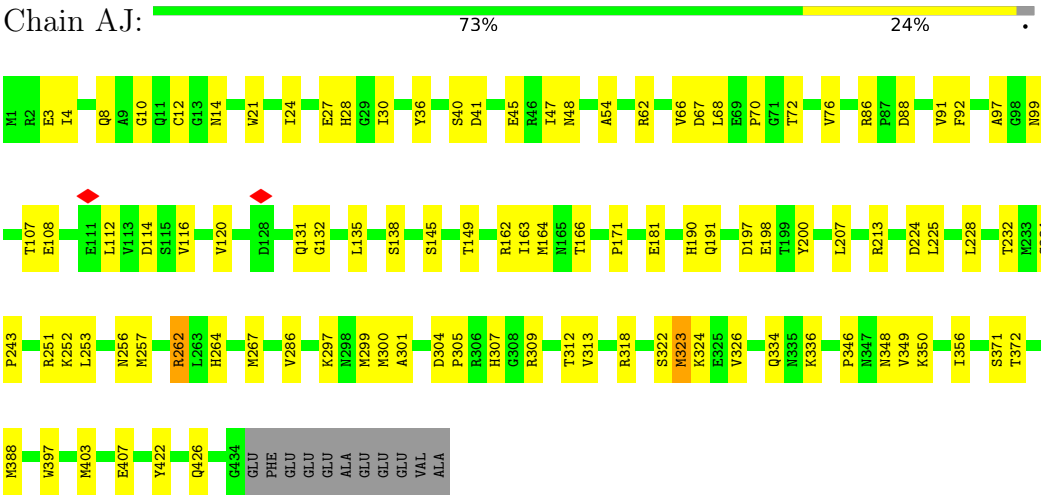
• Molecule 9: Tubulin beta-4B chain

Chain AH:



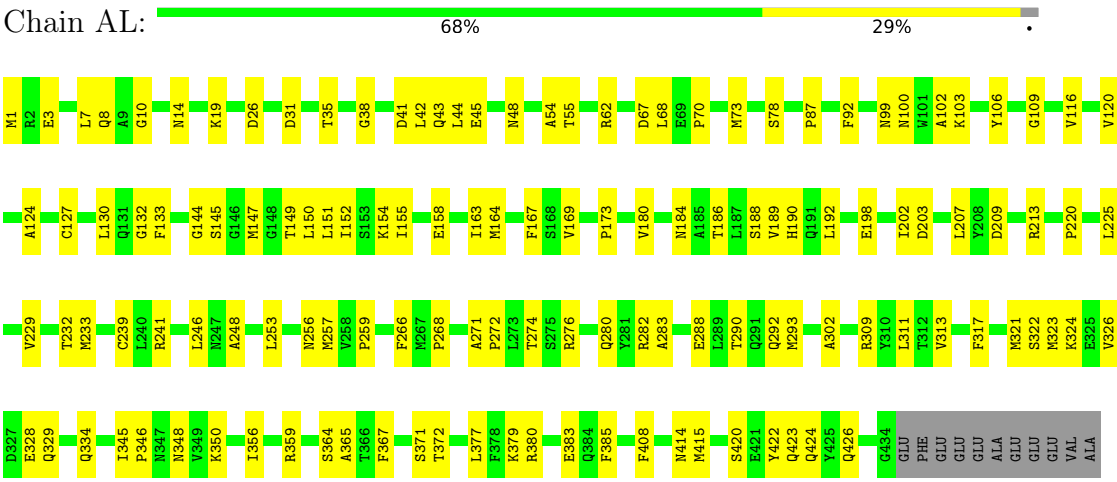
• Molecule 9: Tubulin beta-4B chain

Chain AJ:



• Molecule 9: Tubulin beta-4B chain

Chain AL:



• Molecule 9: Tubulin beta-4B chain

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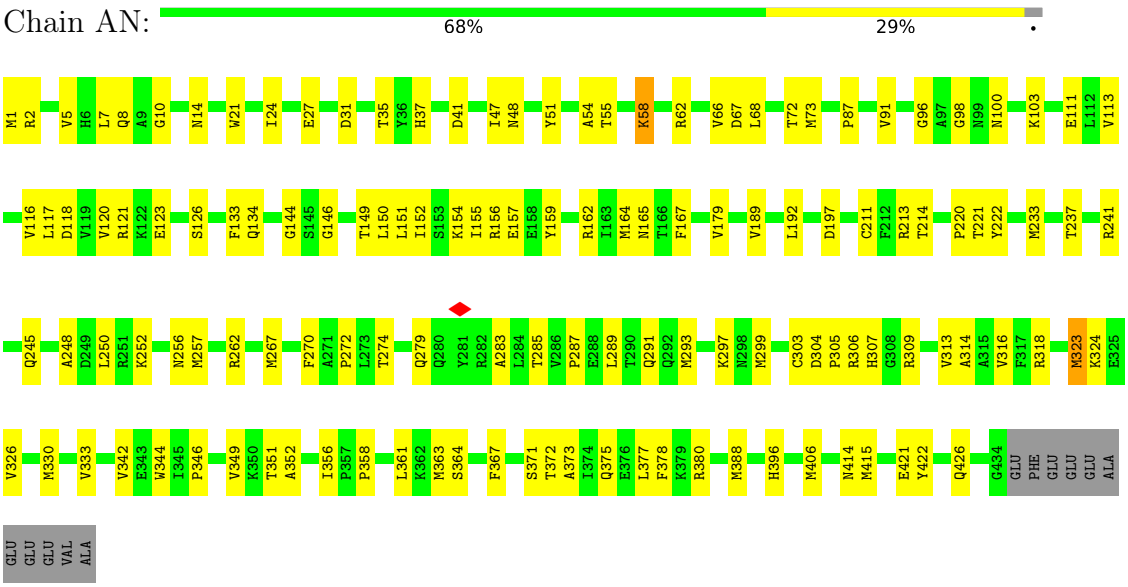

• Molecule 9: Tubulin beta-4B chain

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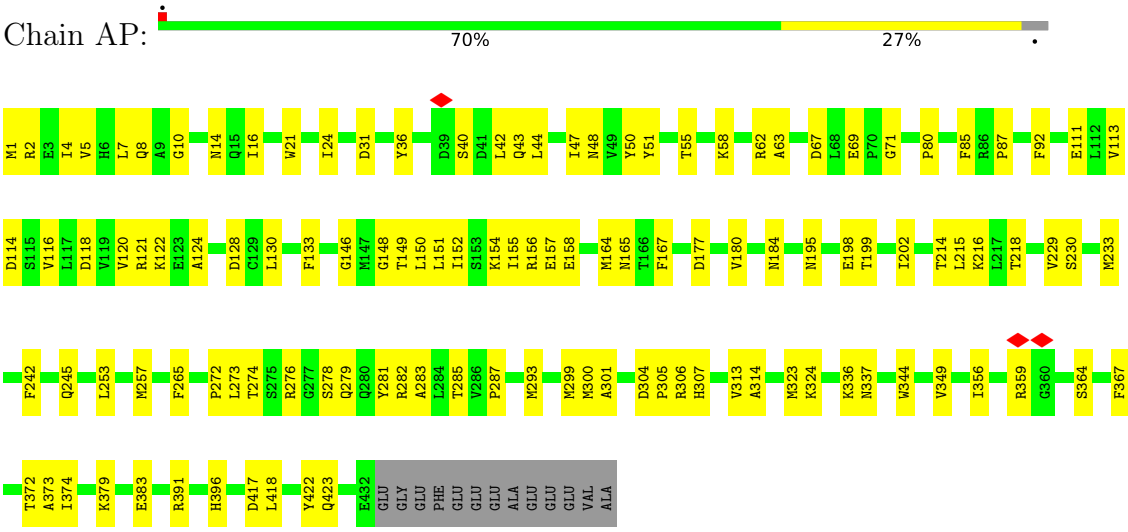
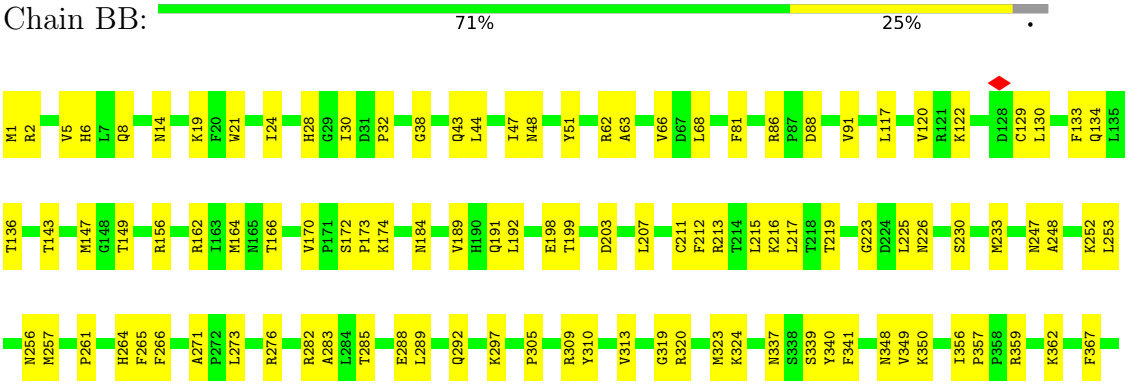
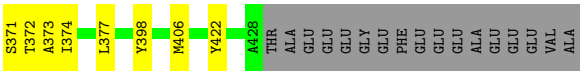


• Molecule 9: Tubulin beta-4B chain

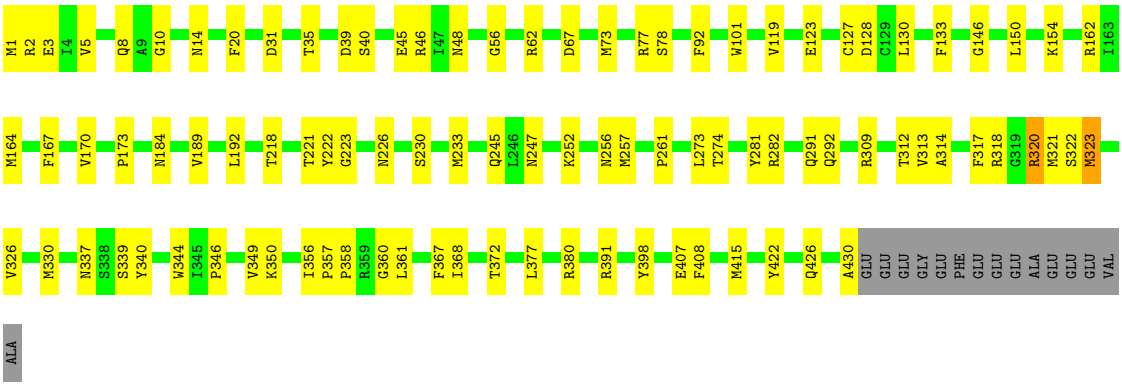
Chain BB:





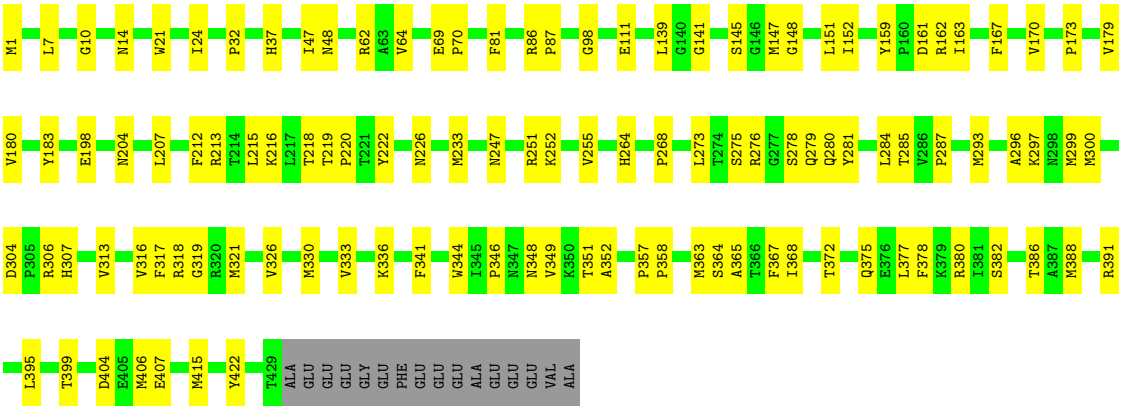
• Molecule 9: Tubulin beta-4B chain

Chain BD:



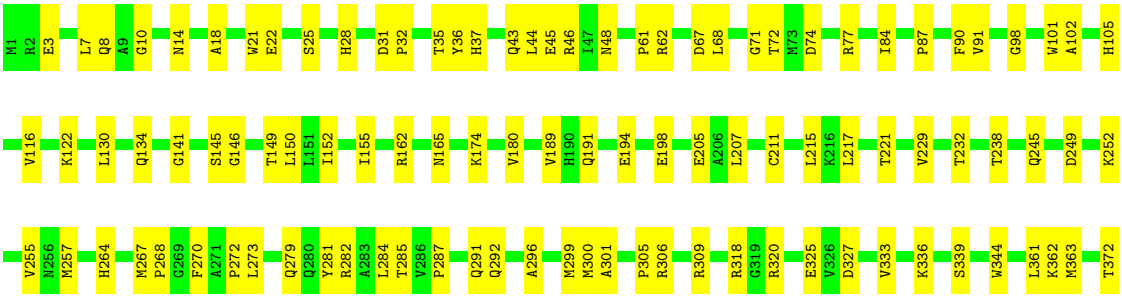
• Molecule 9: Tubulin beta-4B chain

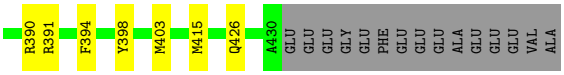
Chain BF:



• Molecule 9: Tubulin beta-4B chain

Chain BH:



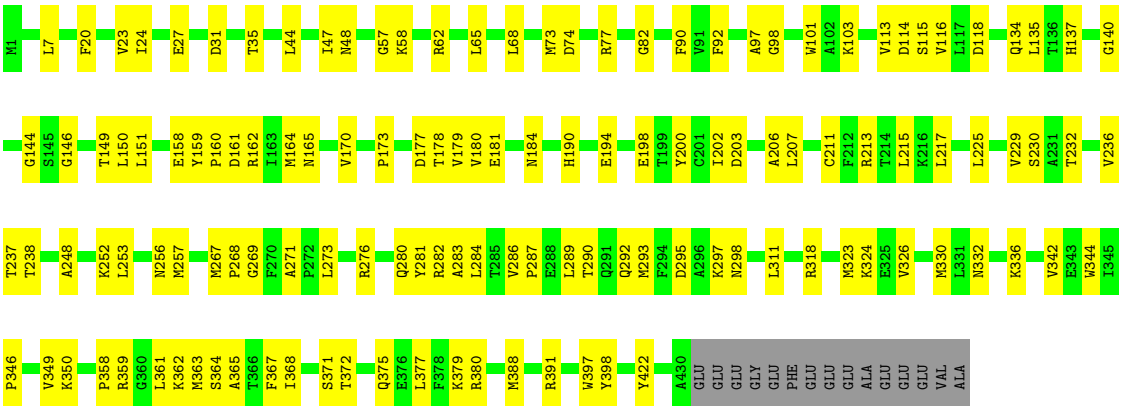


• Molecule 9: Tubulin beta-4B chain

Chain BJ:

• Molecule 9: Tubulin beta-4B chain

Chain BL:

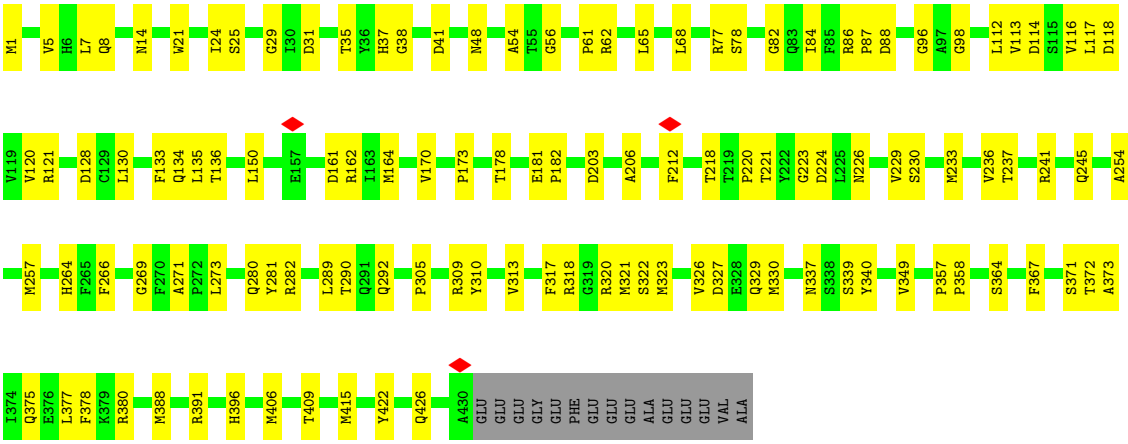


• Molecule 9: Tubulin beta-4B chain

Chain BN:

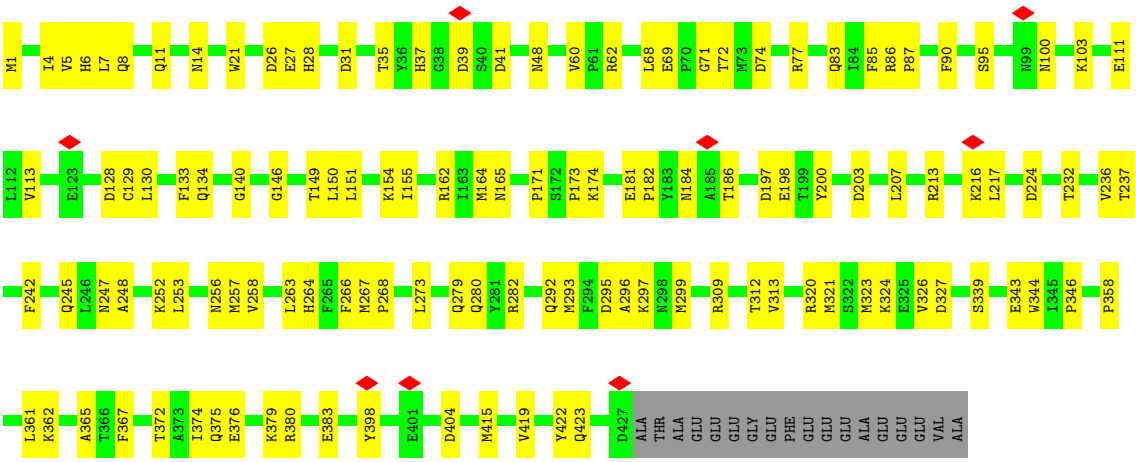
• Molecule 9: Tubulin beta-4B chain

Chain BP:



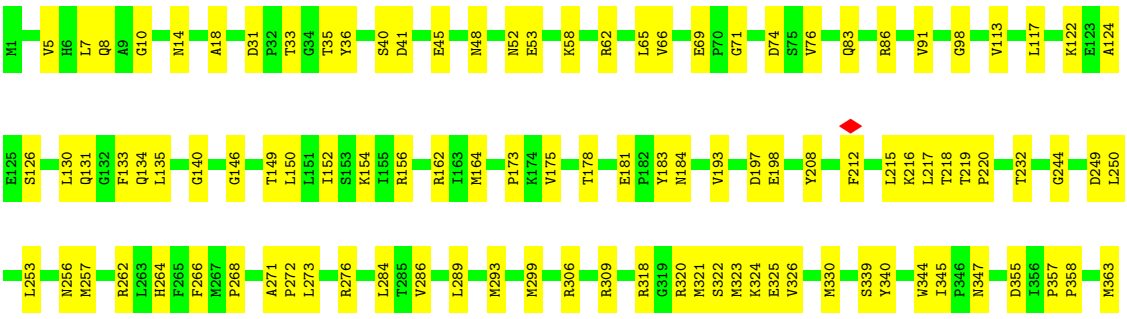
• Molecule 9: Tubulin beta-4B chain

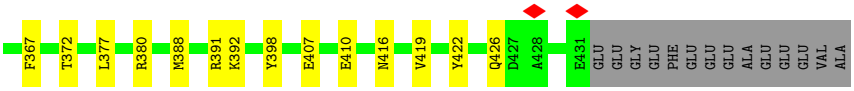
Chain CB:



• Molecule 9: Tubulin beta-4B chain

Chain CD:



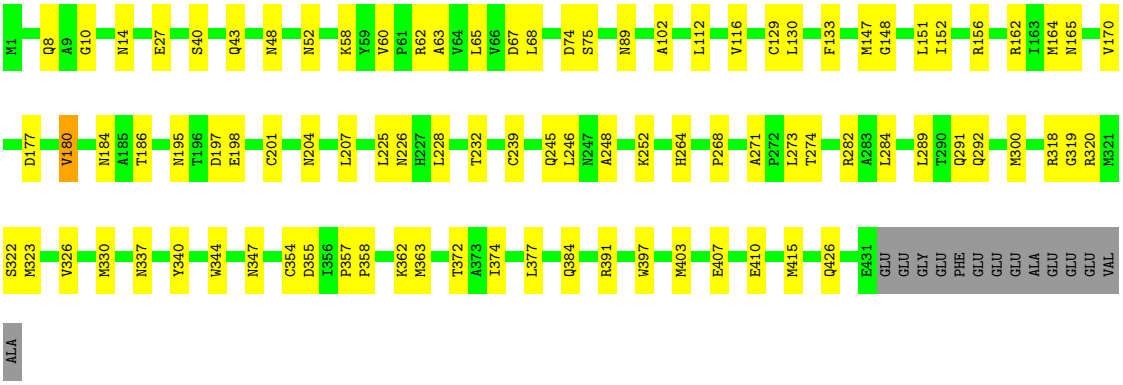


• Molecule 9: Tubulin beta-4B chain

Chain CF:

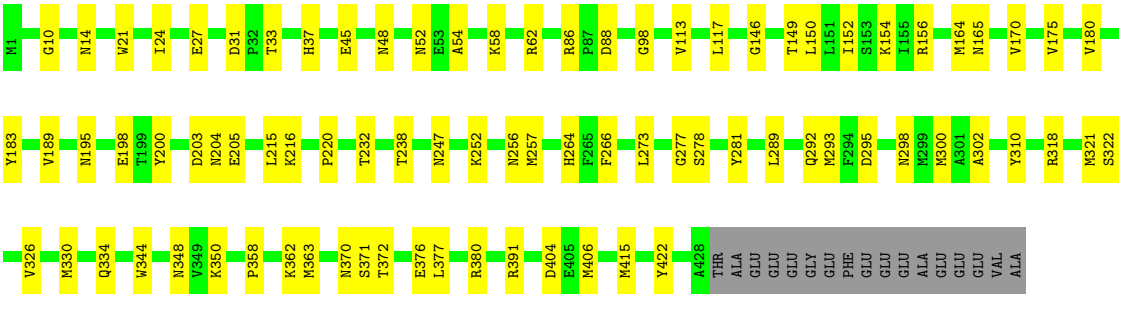
• Molecule 9: Tubulin beta-4B chain

Chain CH:



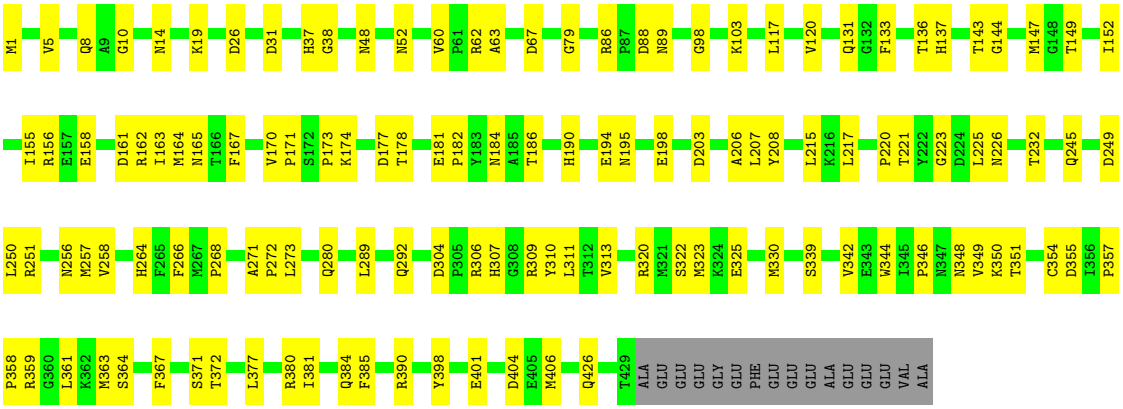
• Molecule 9: Tubulin beta-4B chain

Chain CJ:



• Molecule 9: Tubulin beta-4B chain

Chain CL:



• Molecule 9: Tubulin beta-4B chain

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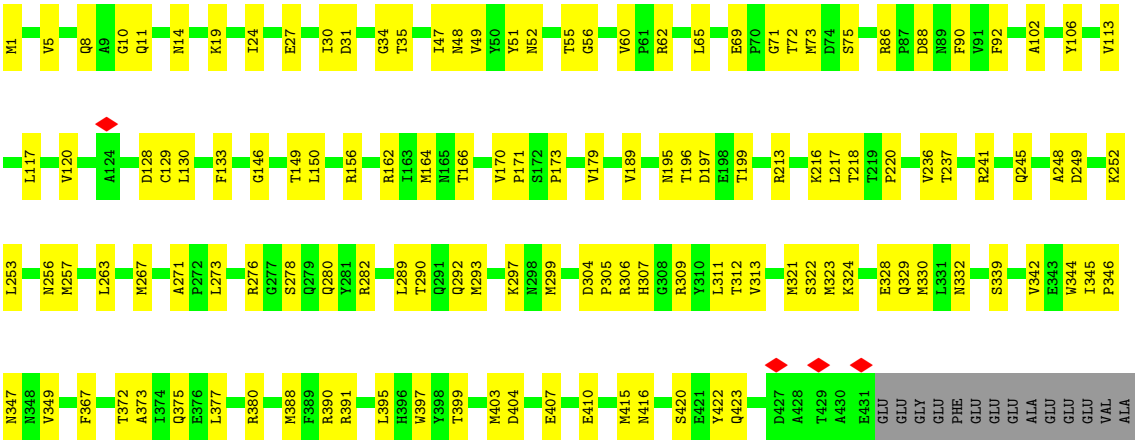

• Molecule 9: Tubulin beta-4B chain

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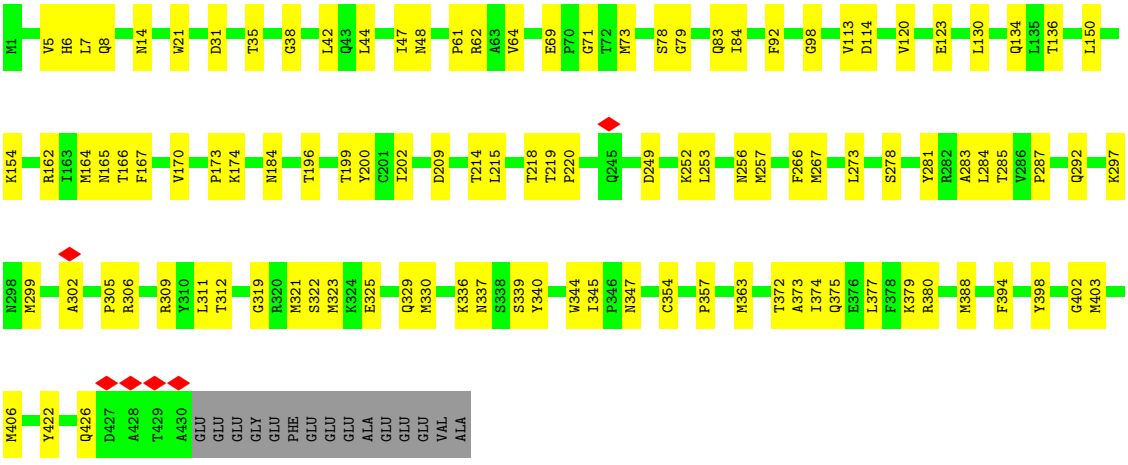
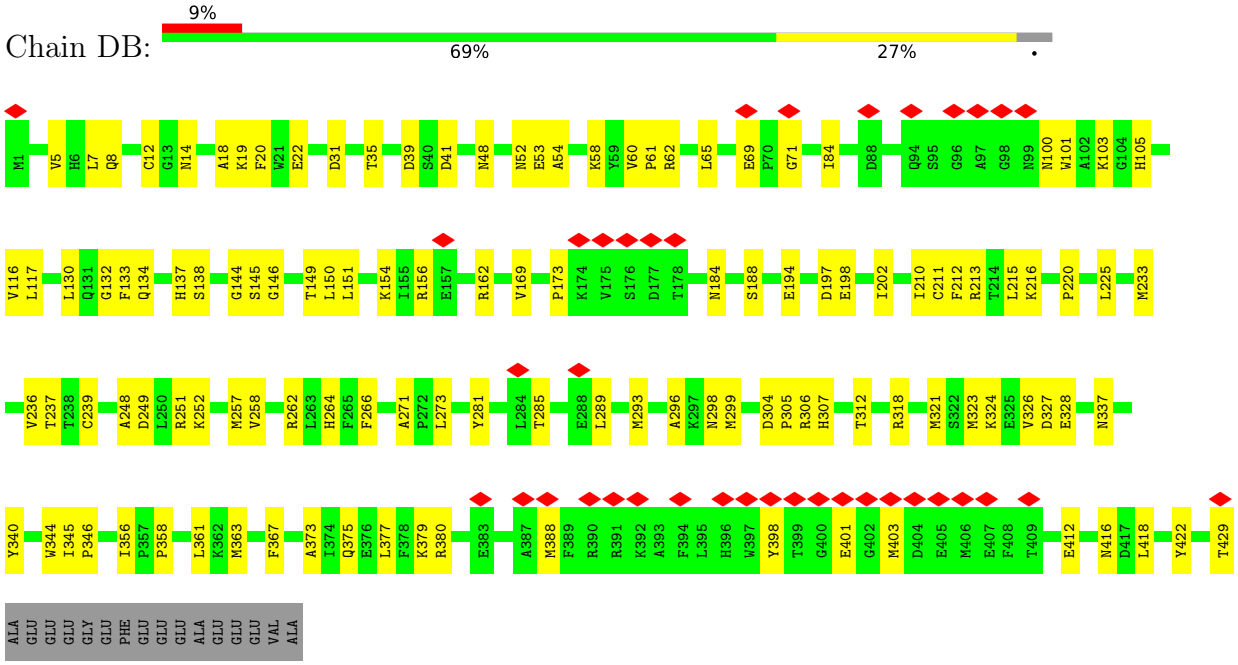


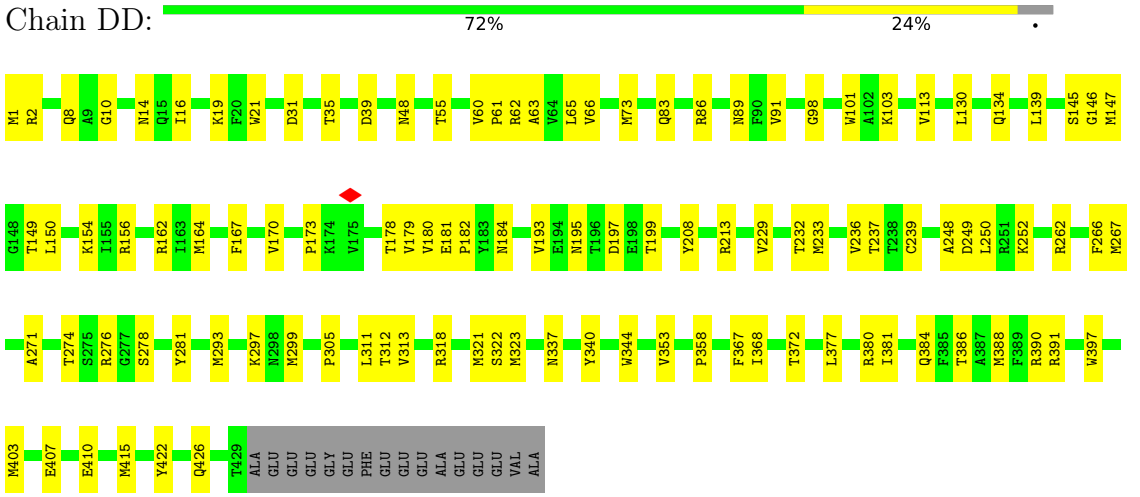
• Molecule 9: Tubulin beta-4B chain

Chain DB:



• Molecule 9: Tubulin beta-4B chain

Chain DD:



• Molecule 9: Tubulin beta-4B chain

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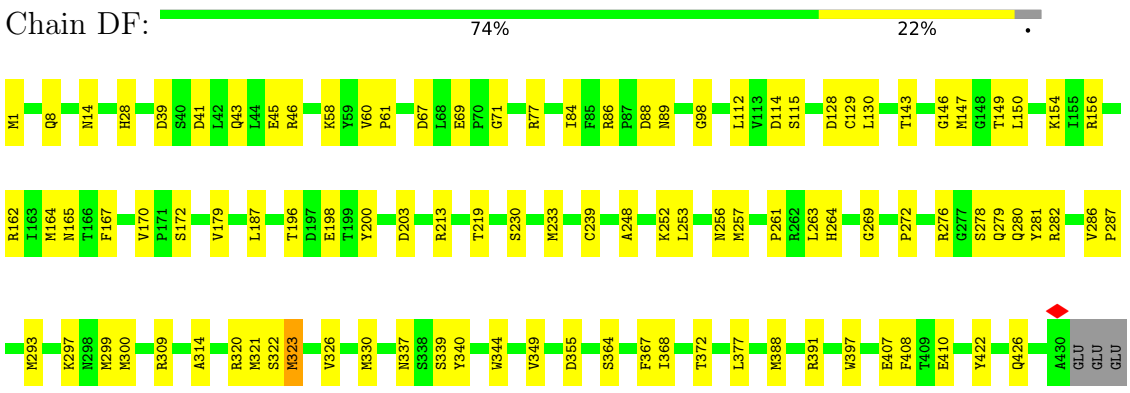

• Molecule 9: Tubulin beta-4B chain

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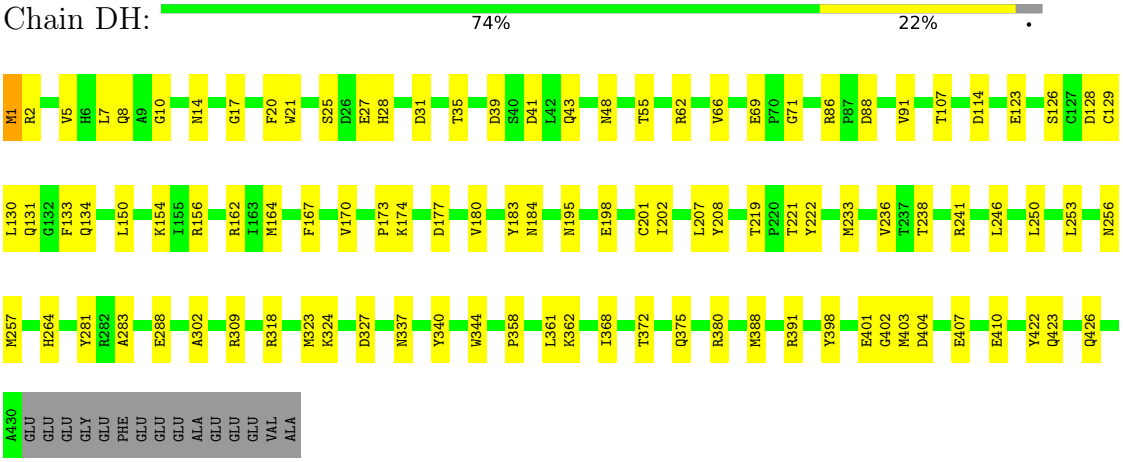

• Molecule 9: Tubulin beta-4B chain

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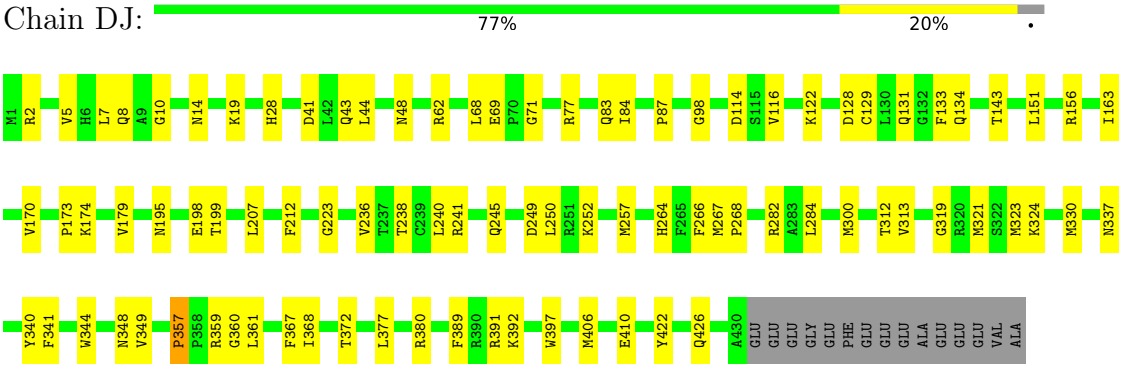

• Molecule 9: Tubulin beta-4B chain

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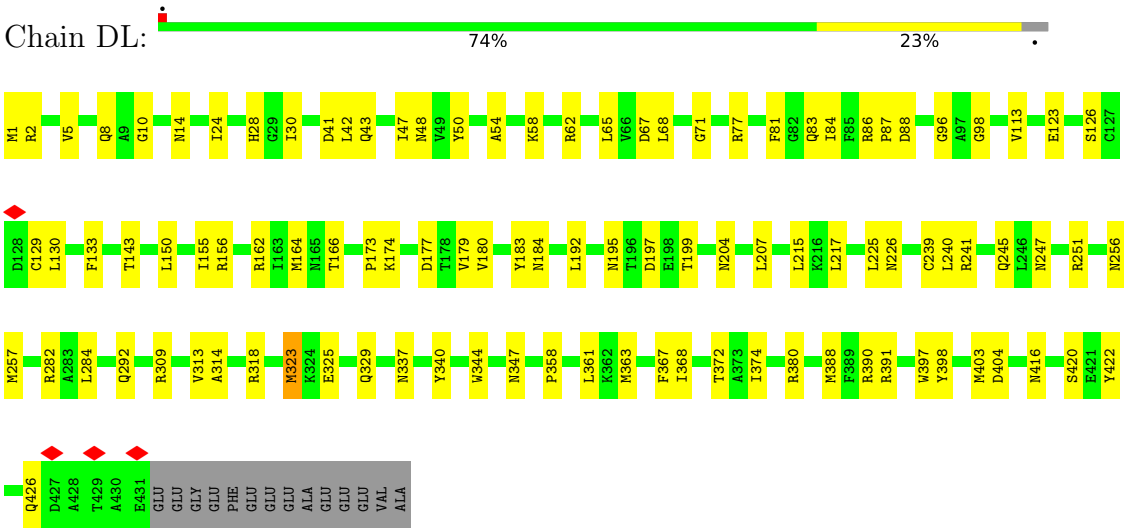

• Molecule 9: Tubulin beta-4B chain

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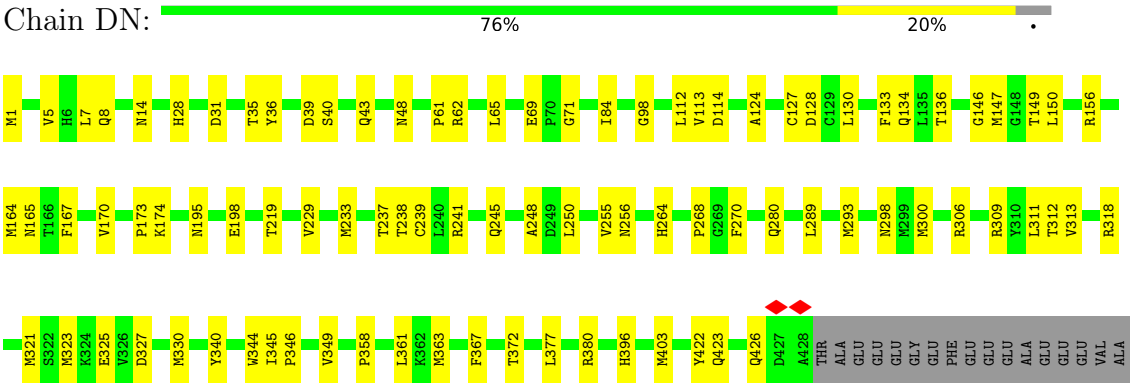

• Molecule 9: Tubulin beta-4B chain

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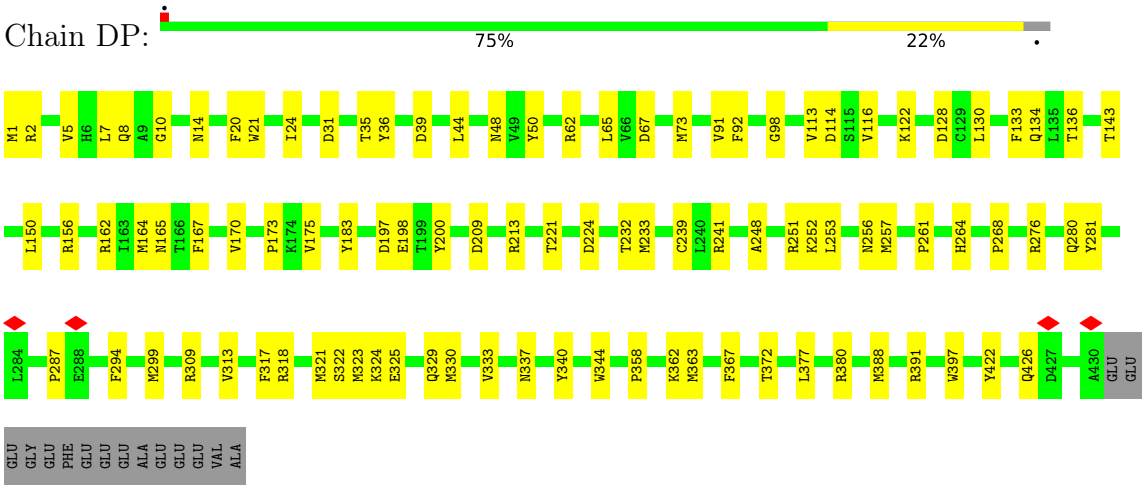
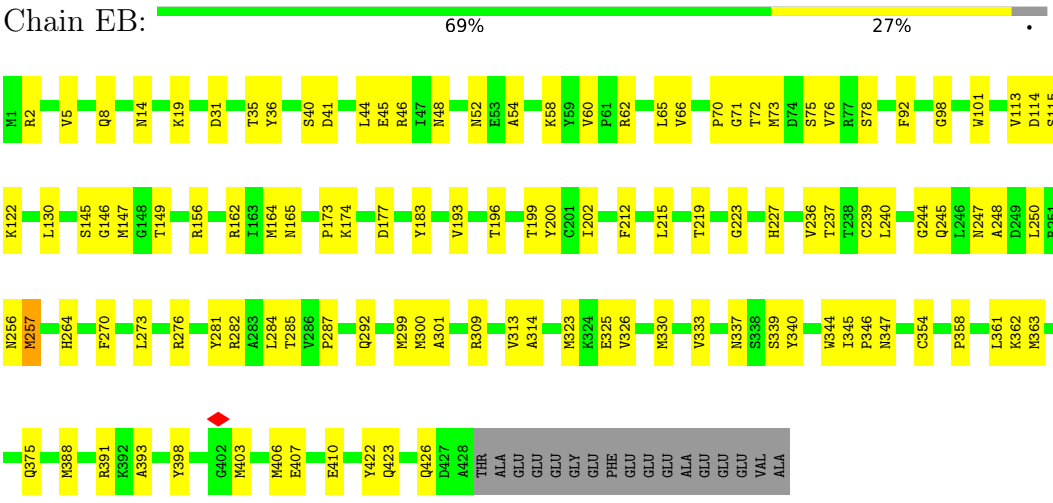


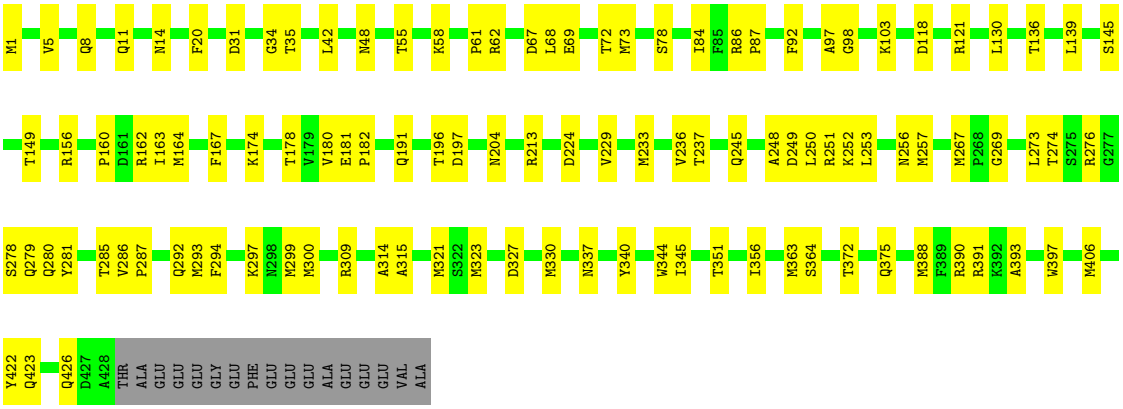
• Molecule 9: Tubulin beta-4B chain

Chain EB:



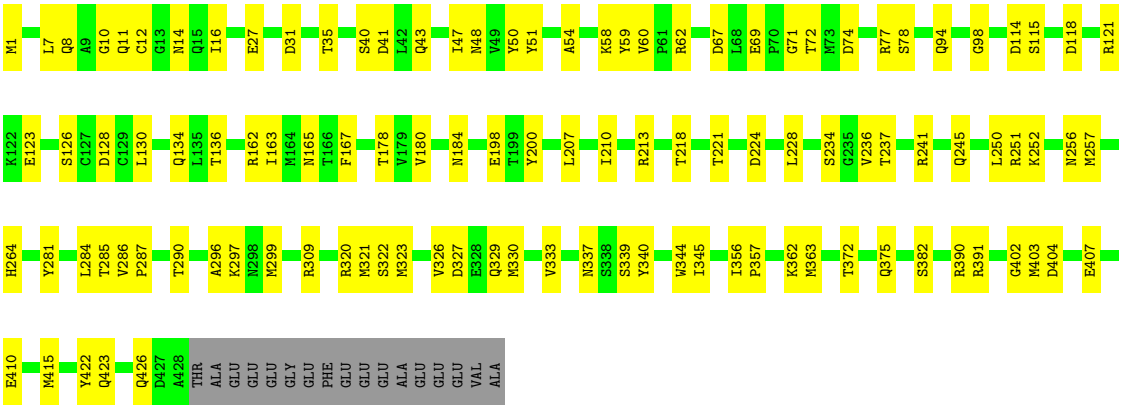
• Molecule 9: Tubulin beta-4B chain

Chain ED:



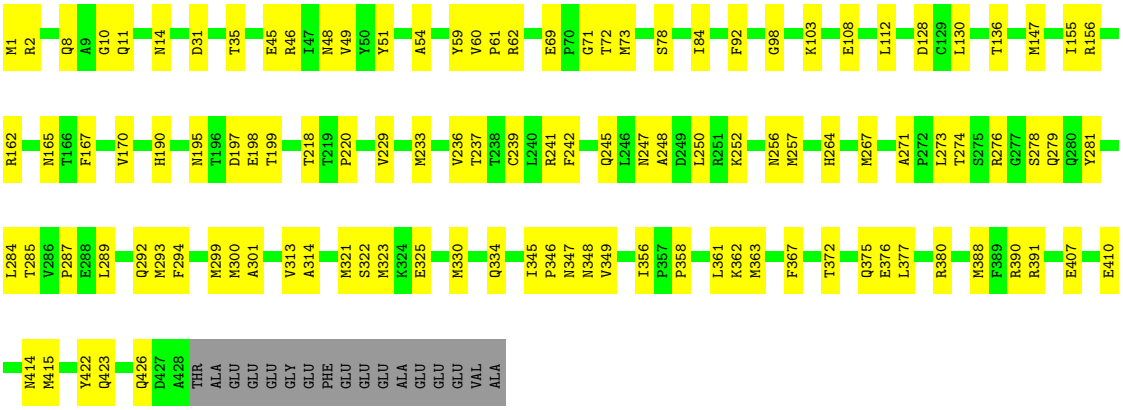
• Molecule 9: Tubulin beta-4B chain

Chain EF:



• Molecule 9: Tubulin beta-4B chain

Chain EH:



• Molecule 9: Tubulin beta-4B chain

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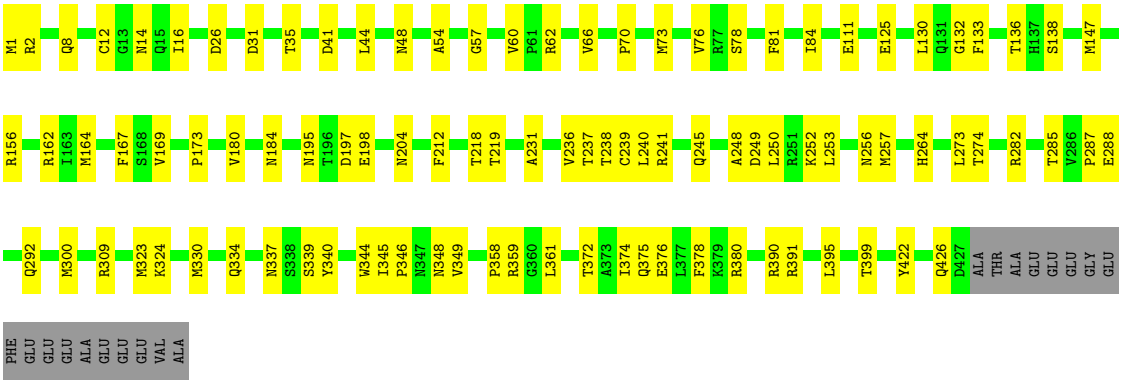
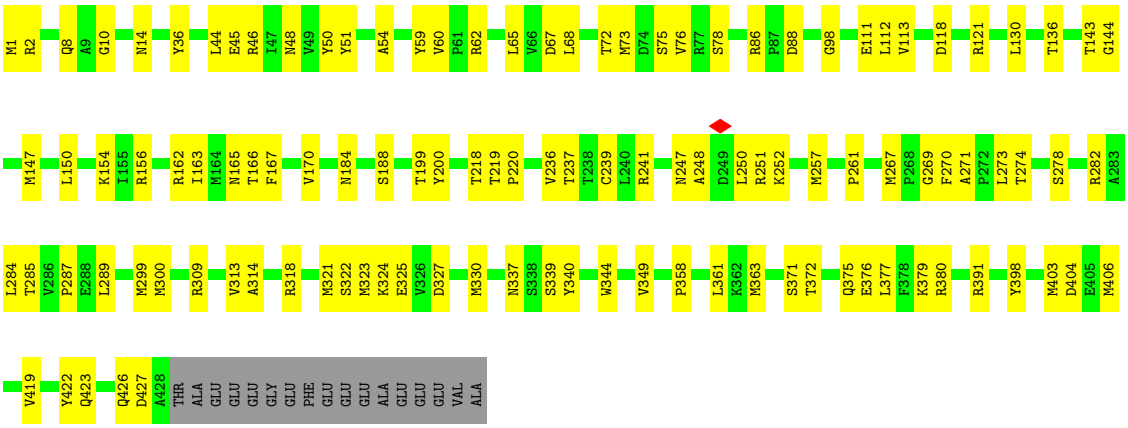


• Molecule 9: Tubulin beta-4B chain

Chain EL:



• Molecule 9: Tubulin beta-4B chain

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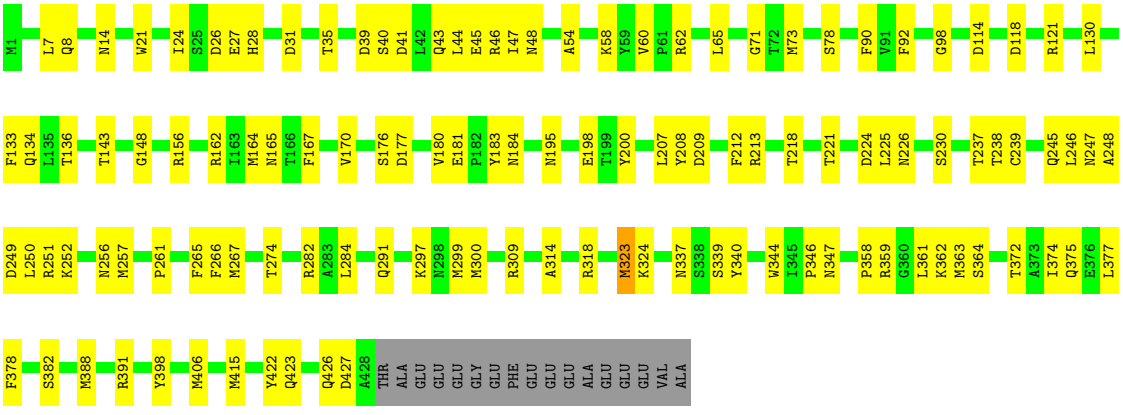
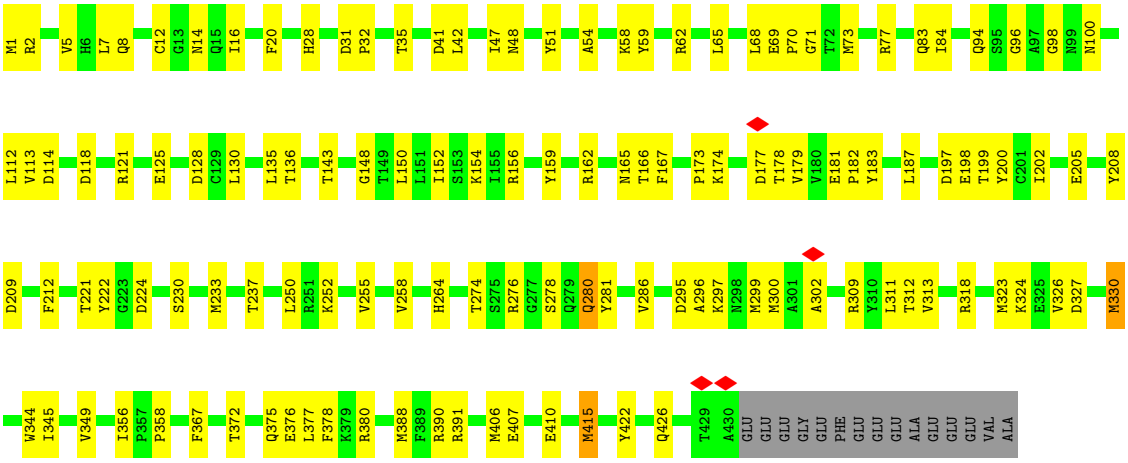


• Molecule 9: Tubulin beta-4B chain

Chain FB:



• Molecule 9: Tubulin beta-4B chain

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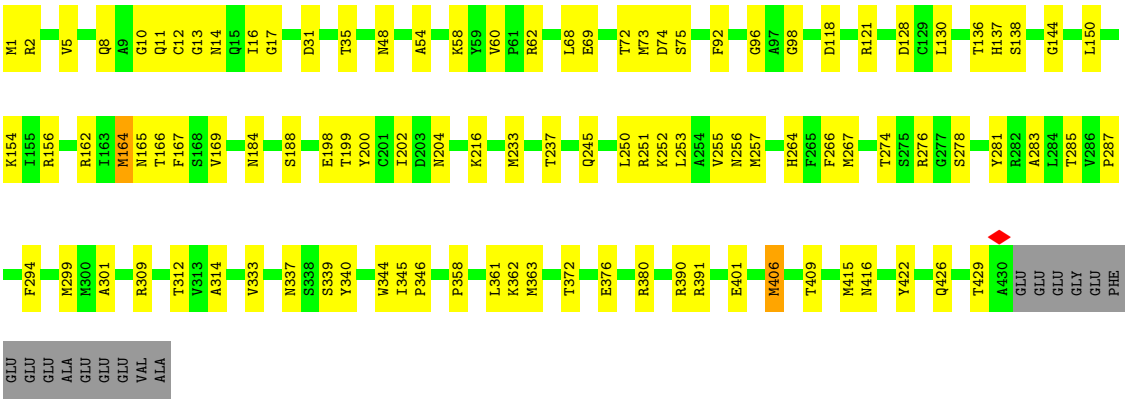

• Molecule 9: Tubulin beta-4B chain

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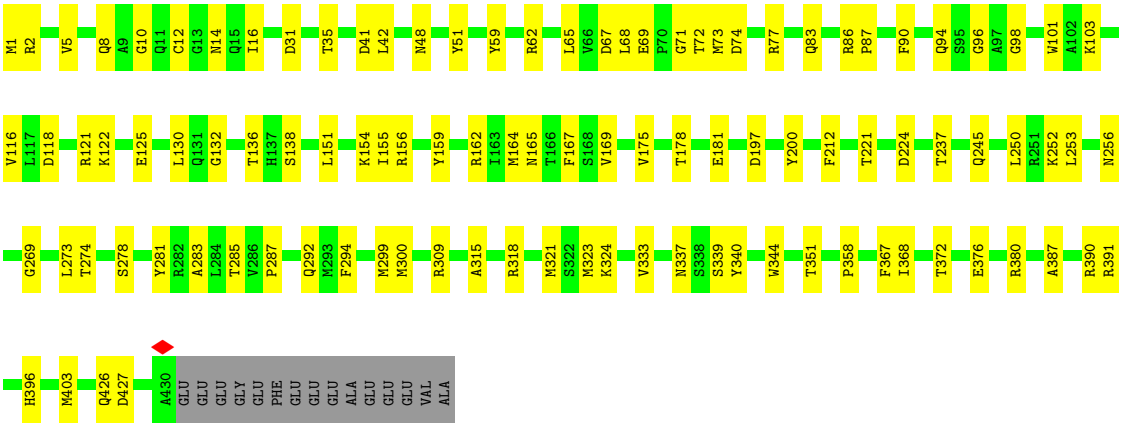

• Molecule 9: Tubulin beta-4B chain

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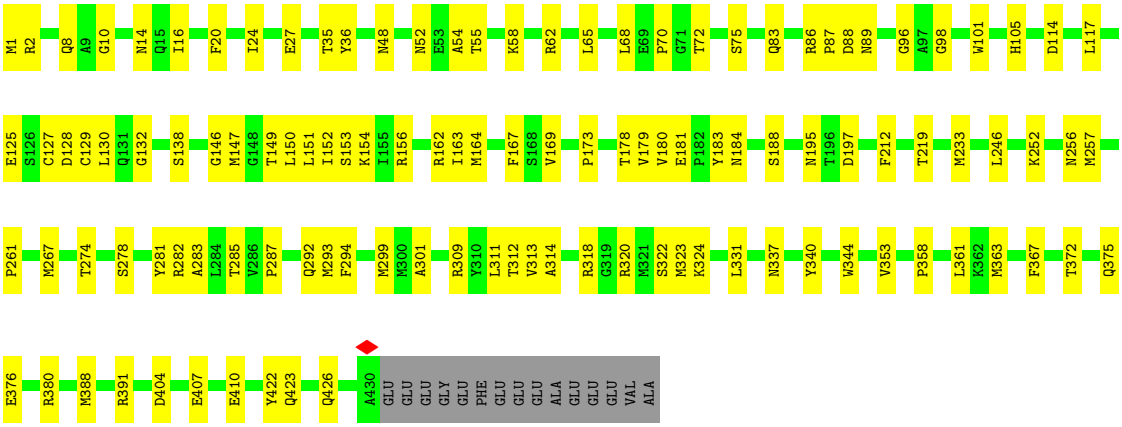

• Molecule 9: Tubulin beta-4B chain

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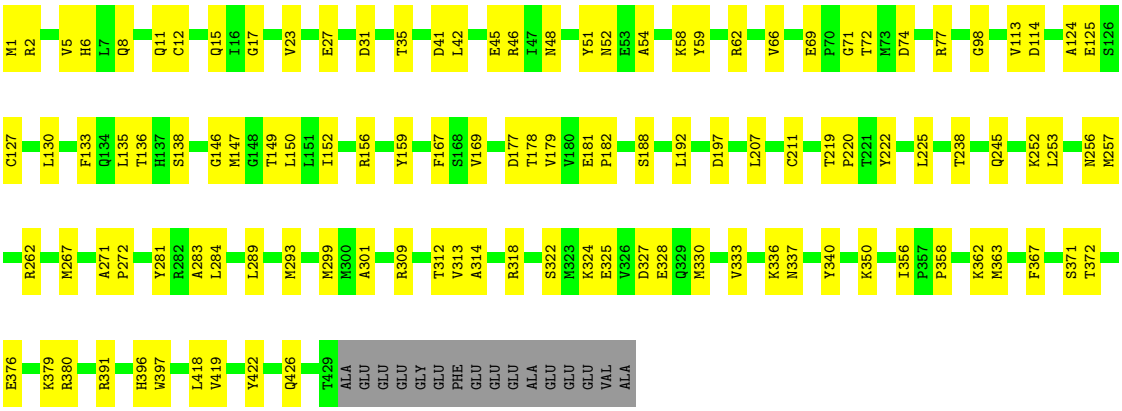

• Molecule 9: Tubulin beta-4B chain

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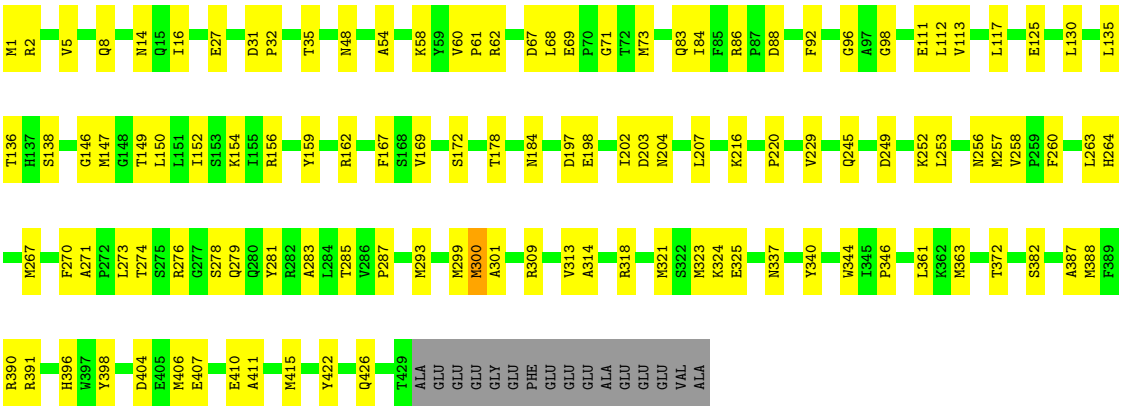

• Molecule 9: Tubulin beta-4B chain

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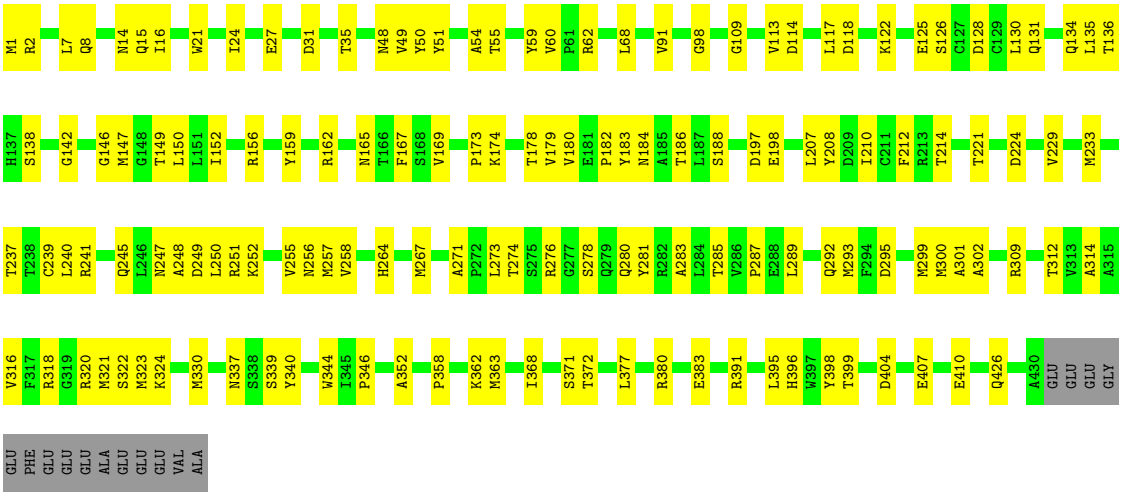
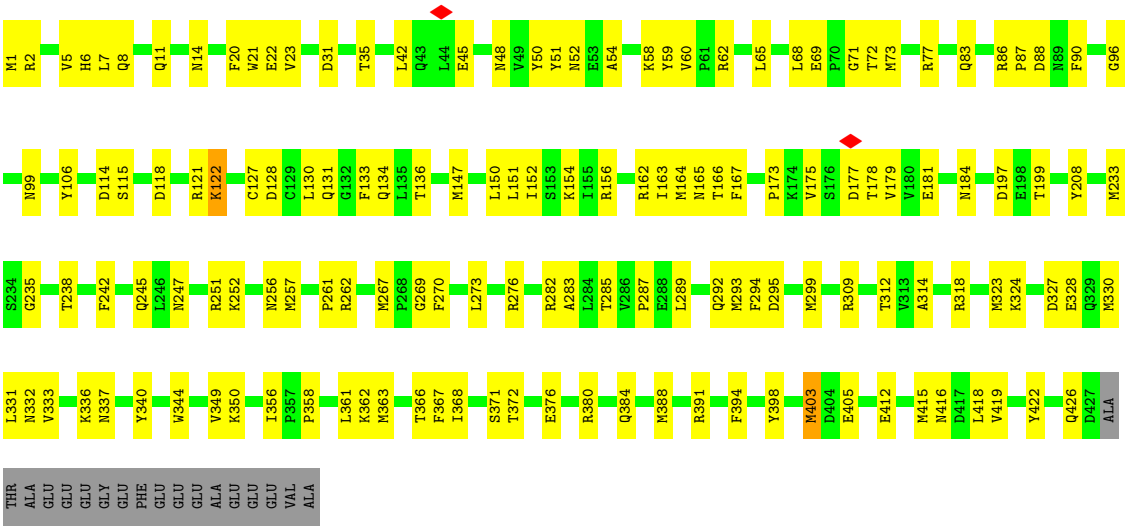


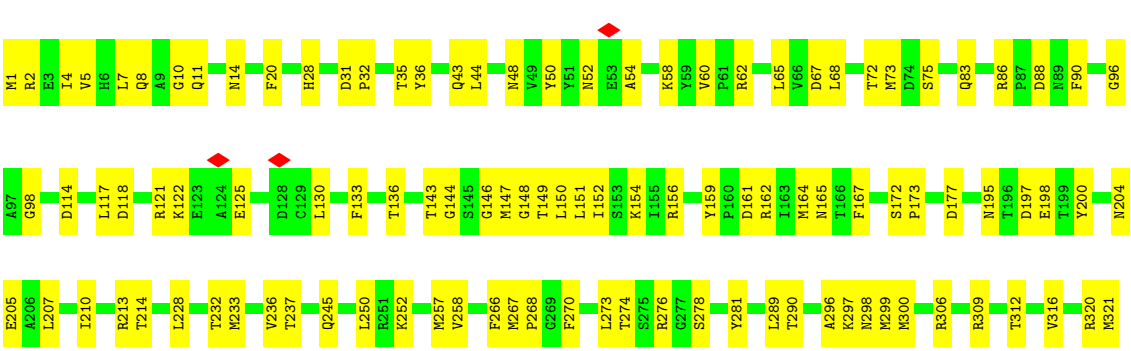
• Molecule 9: Tubulin beta-4B chain

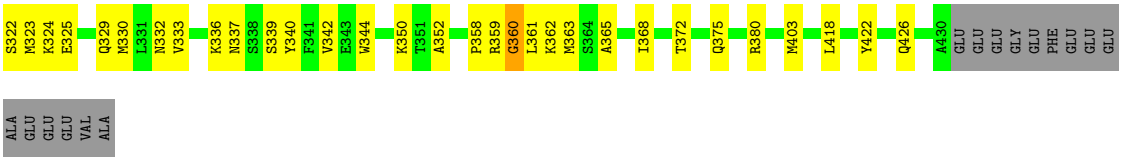
Chain GB:



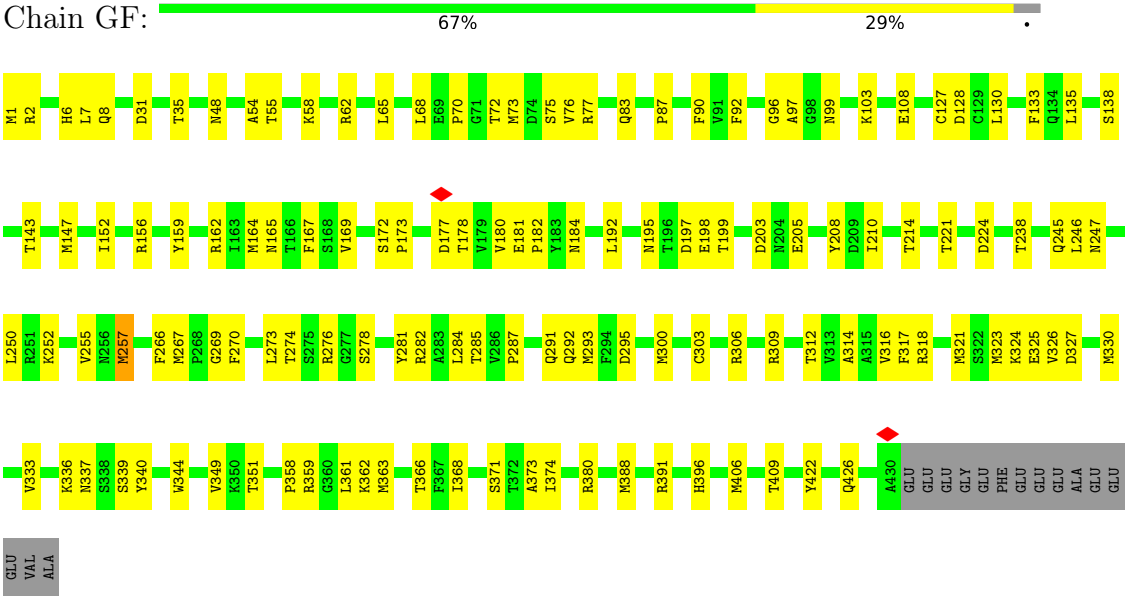
• Molecule 9: Tubulin beta-4B chain

Chain GD:

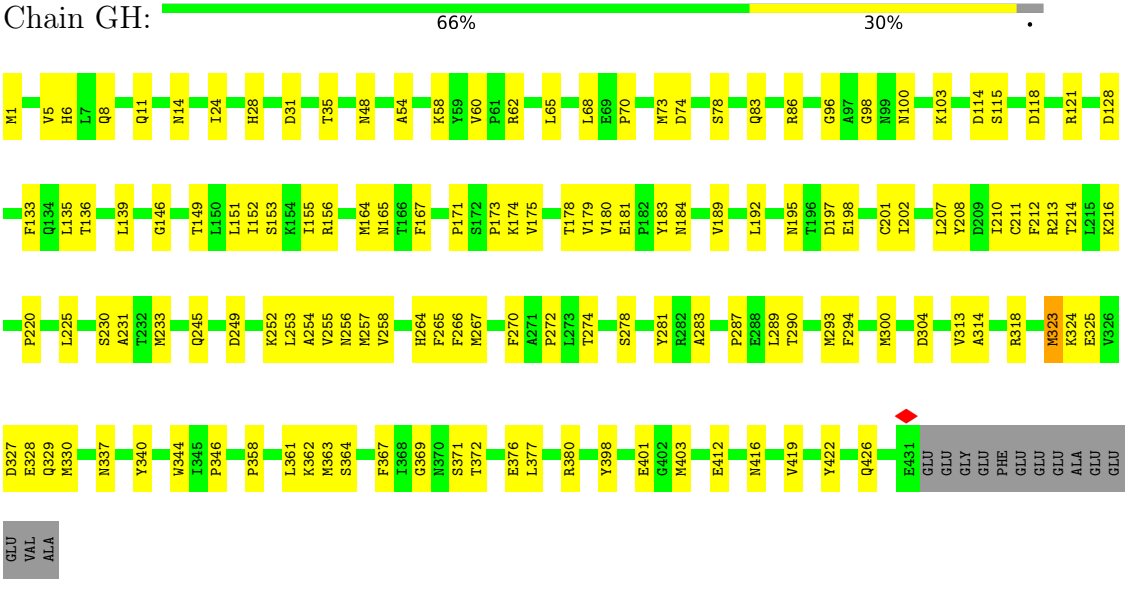




• Molecule 9: Tubulin beta-4B chain



• Molecule 9: Tubulin beta-4B chain



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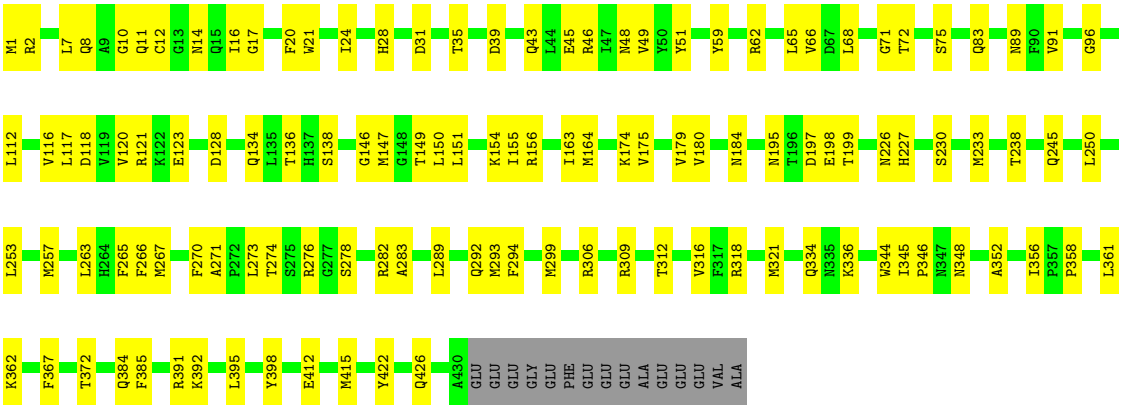

• Molecule 9: Tubulin beta-4B chain

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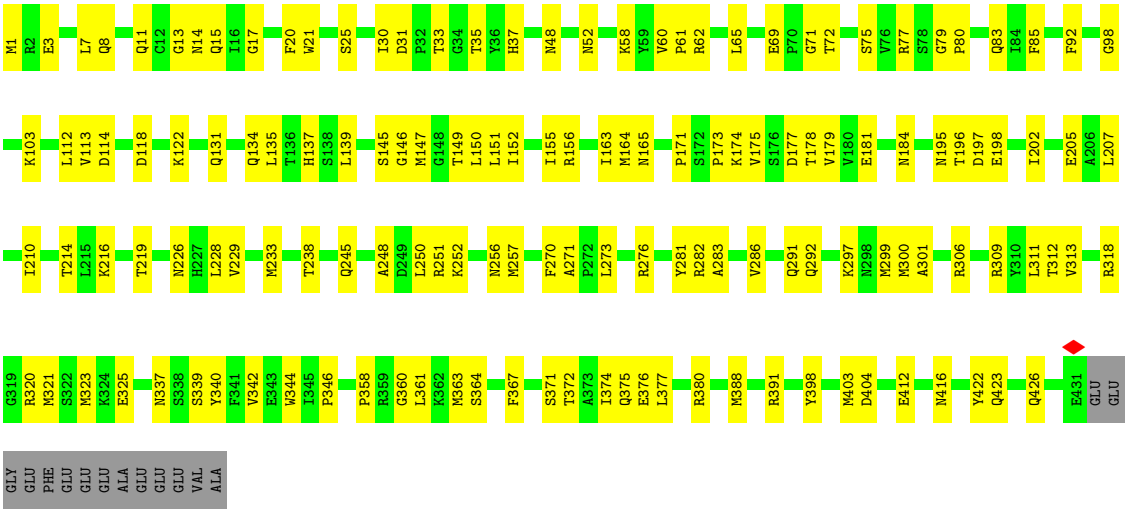

• Molecule 9: Tubulin beta-4B chain

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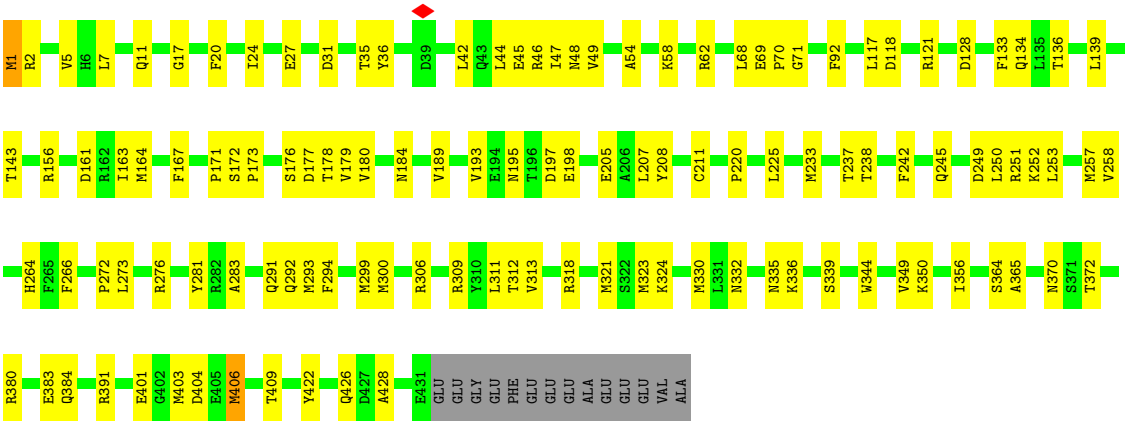

• Molecule 9: Tubulin beta-4B chain

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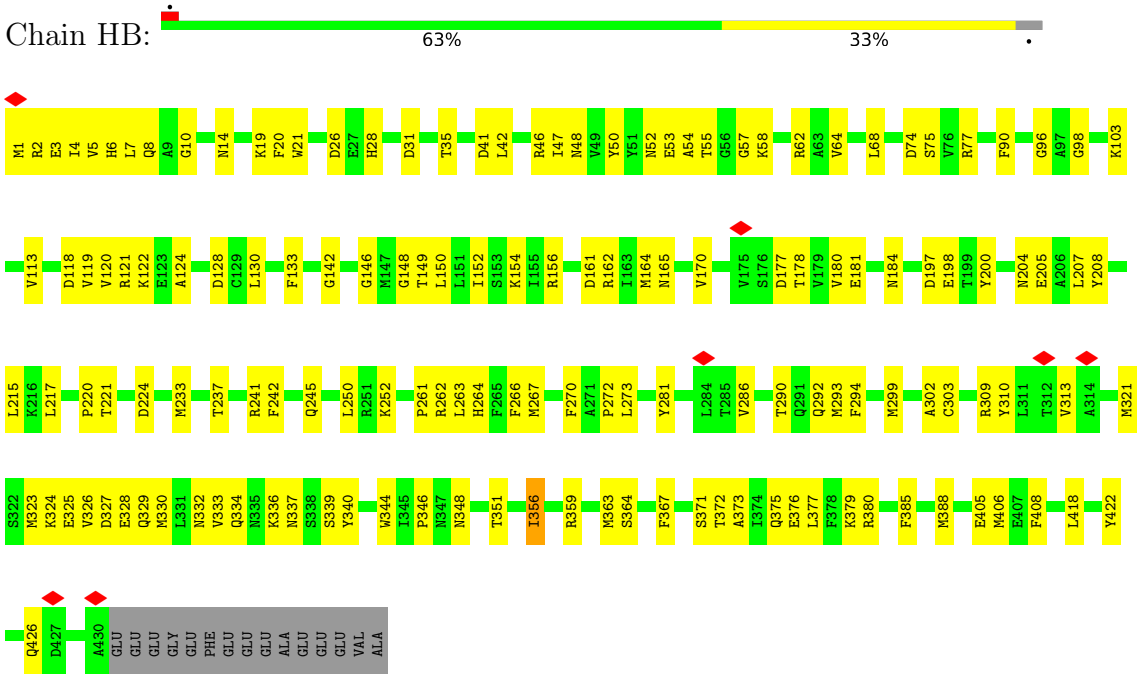

• Molecule 9: Tubulin beta-4B chain

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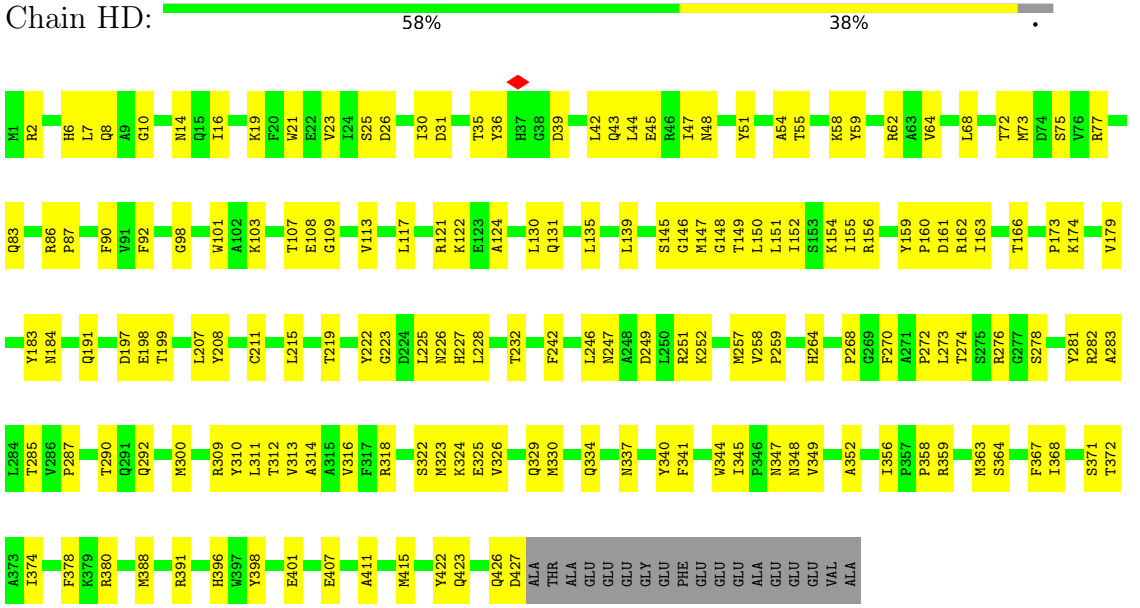

• Molecule 9: Tubulin beta-4B chain

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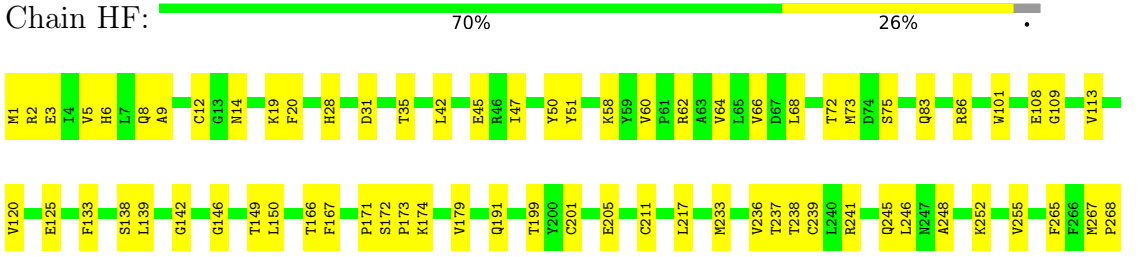

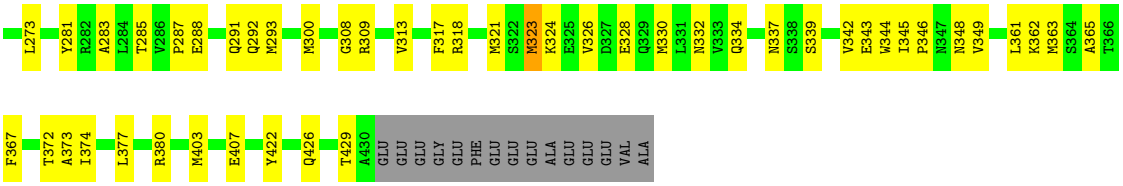

• Molecule 9: Tubulin beta-4B chain

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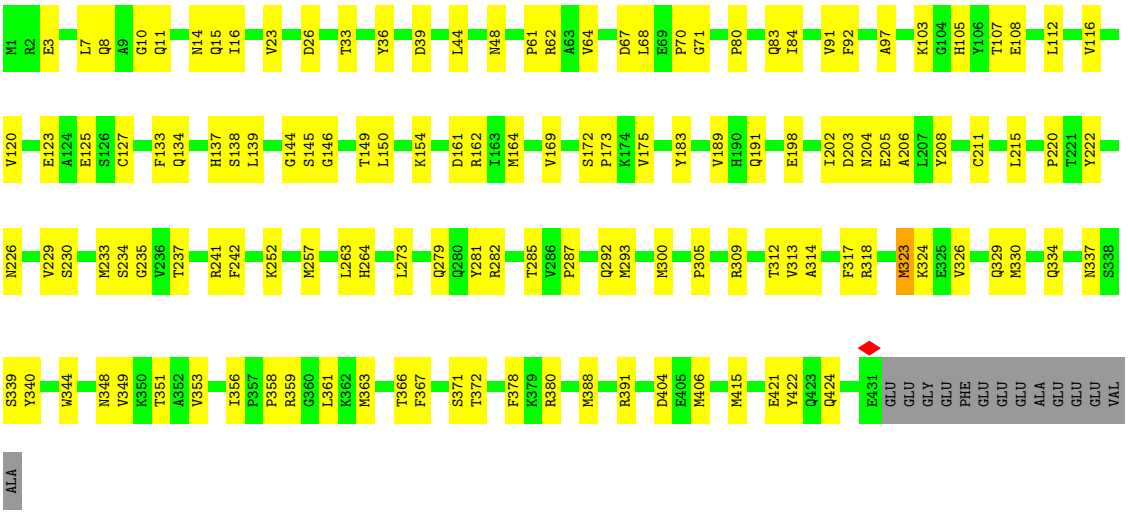

• Molecule 9: Tubulin beta-4B chain

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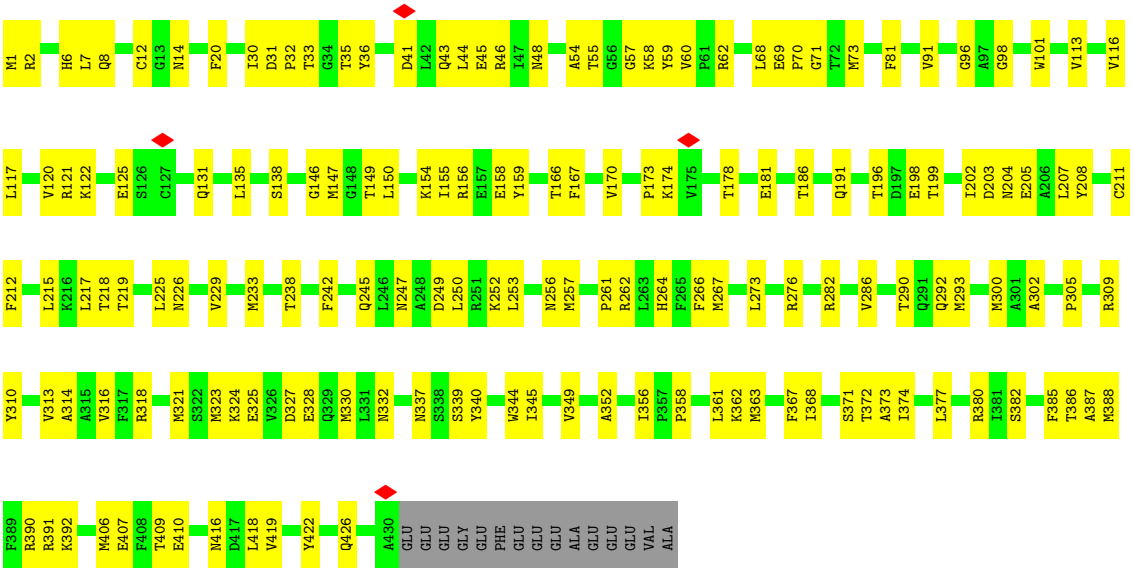

• Molecule 9: Tubulin beta-4B chain

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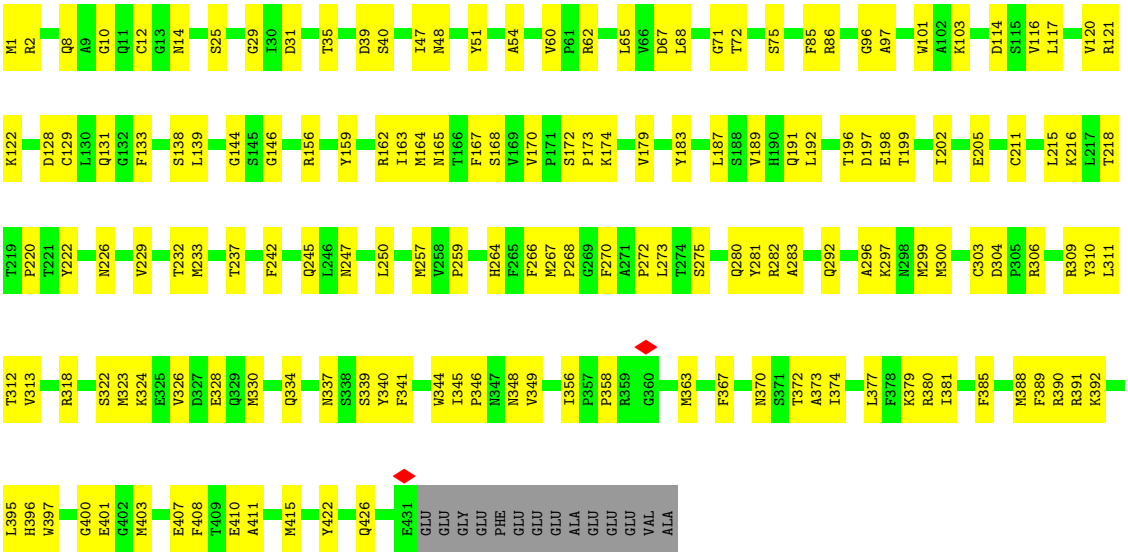

• Molecule 9: Tubulin beta-4B chain

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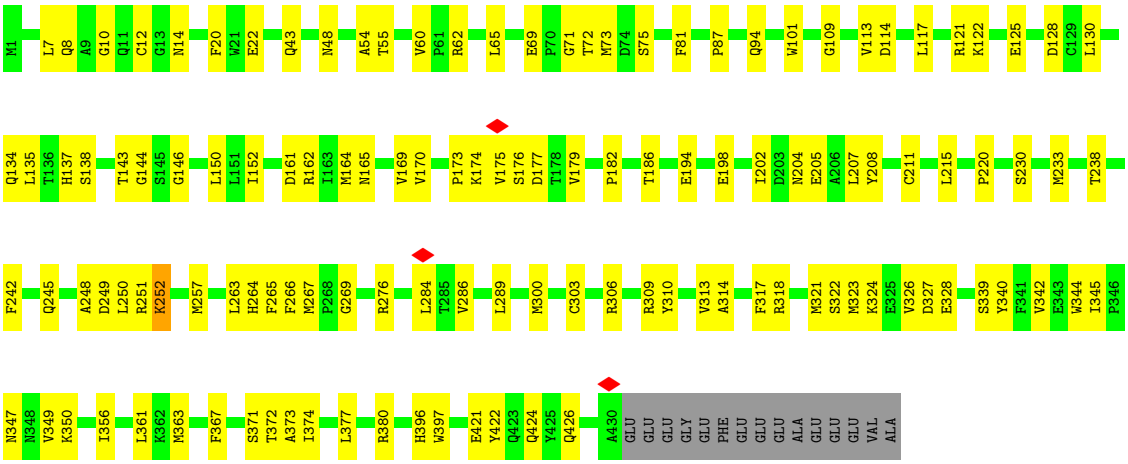

• Molecule 9: Tubulin beta-4B chain

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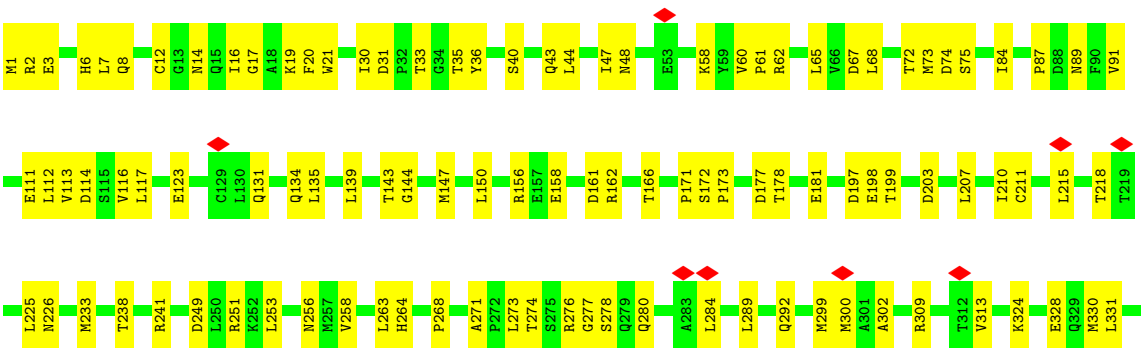

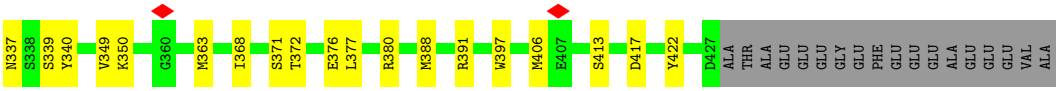

• Molecule 9: Tubulin beta-4B chain

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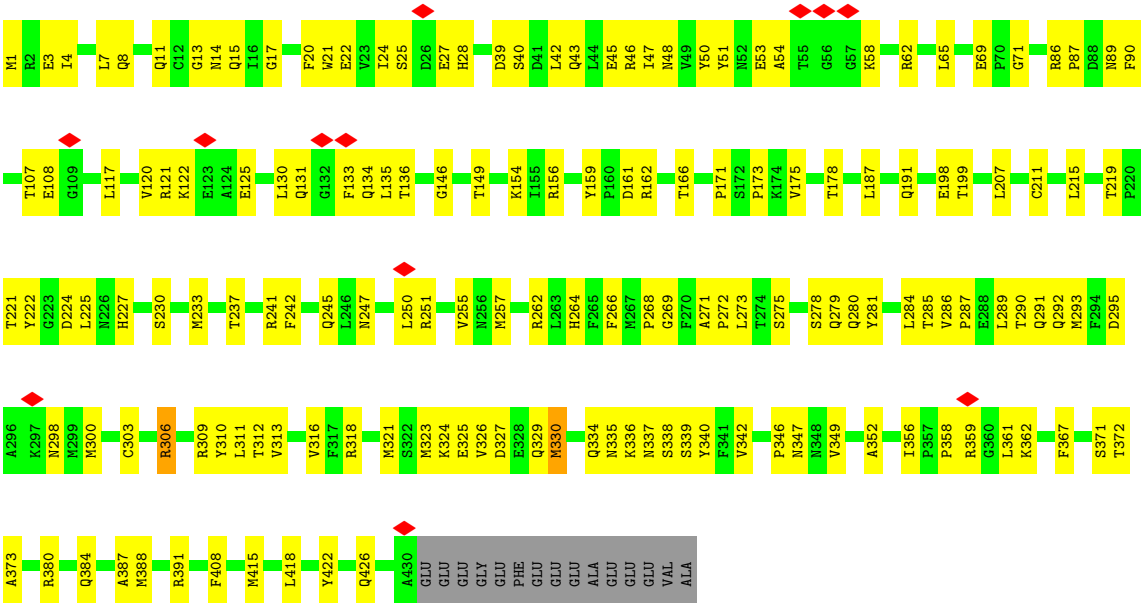

• Molecule 9: Tubulin beta-4B chain

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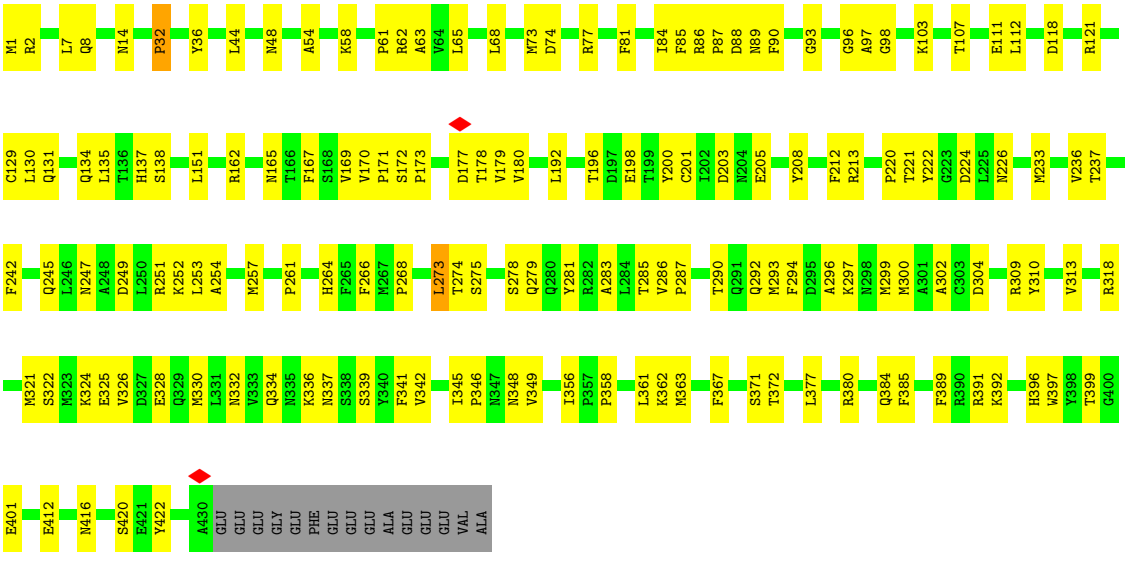

• Molecule 9: Tubulin beta-4B chain

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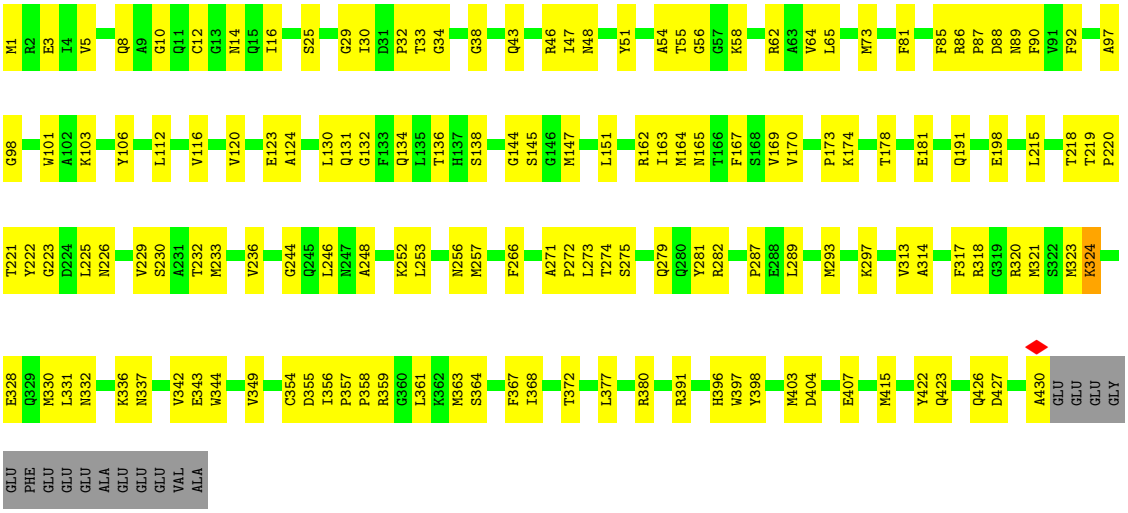
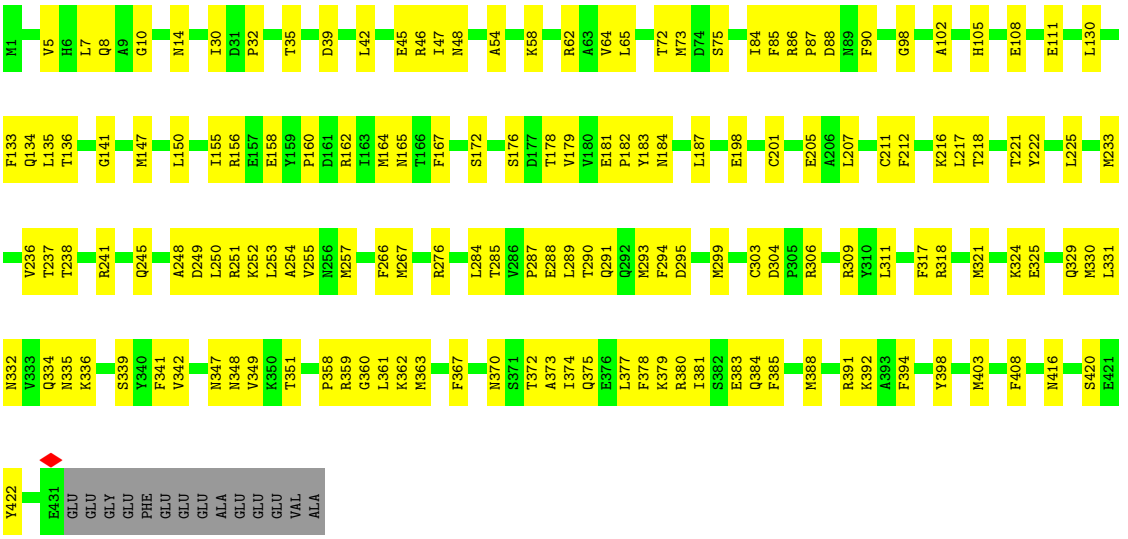


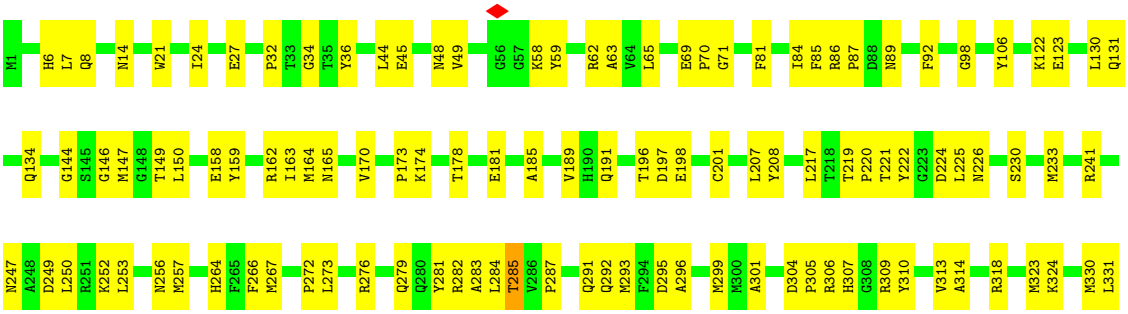
• Molecule 9: Tubulin beta-4B chain

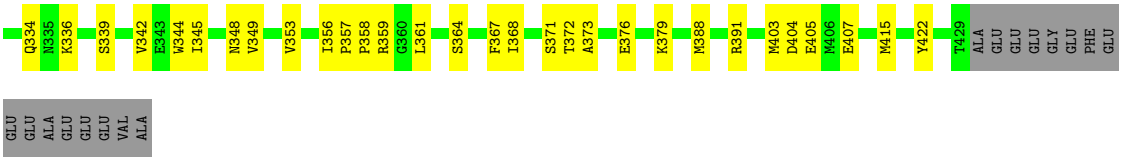
Chain IH:



• Molecule 9: Tubulin beta-4B chain

Chain IJ:





• Molecule 9: Tubulin beta-4B chain

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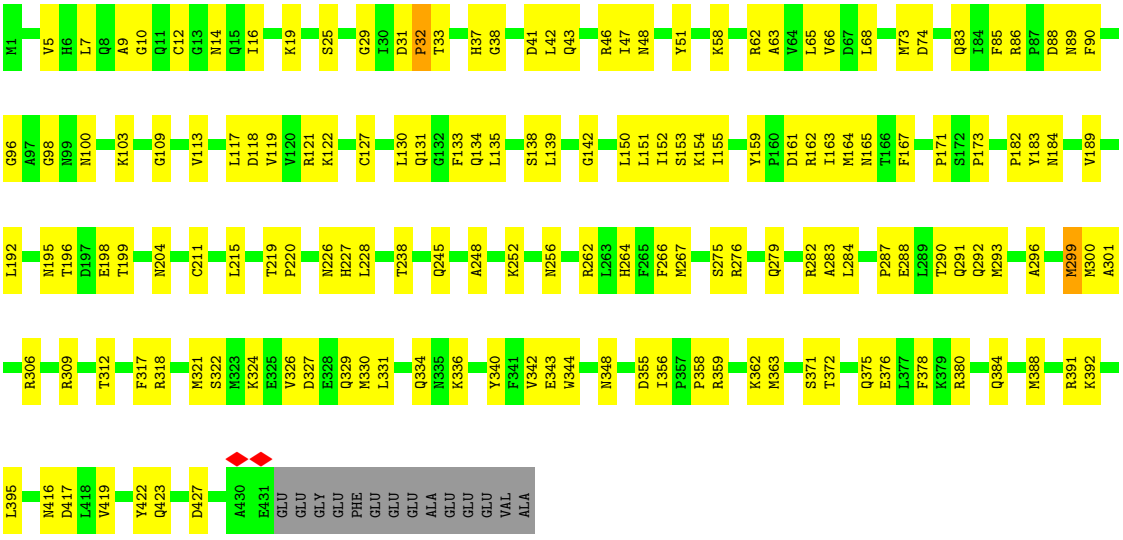

• Molecule 9: Tubulin beta-4B chain

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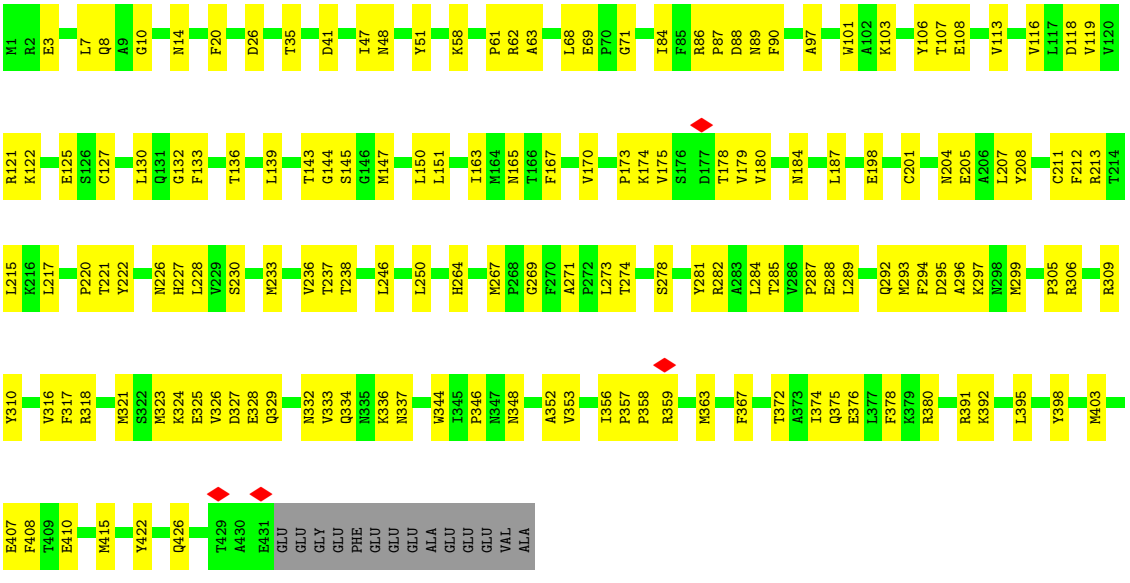

• Molecule 9: Tubulin beta-4B chain

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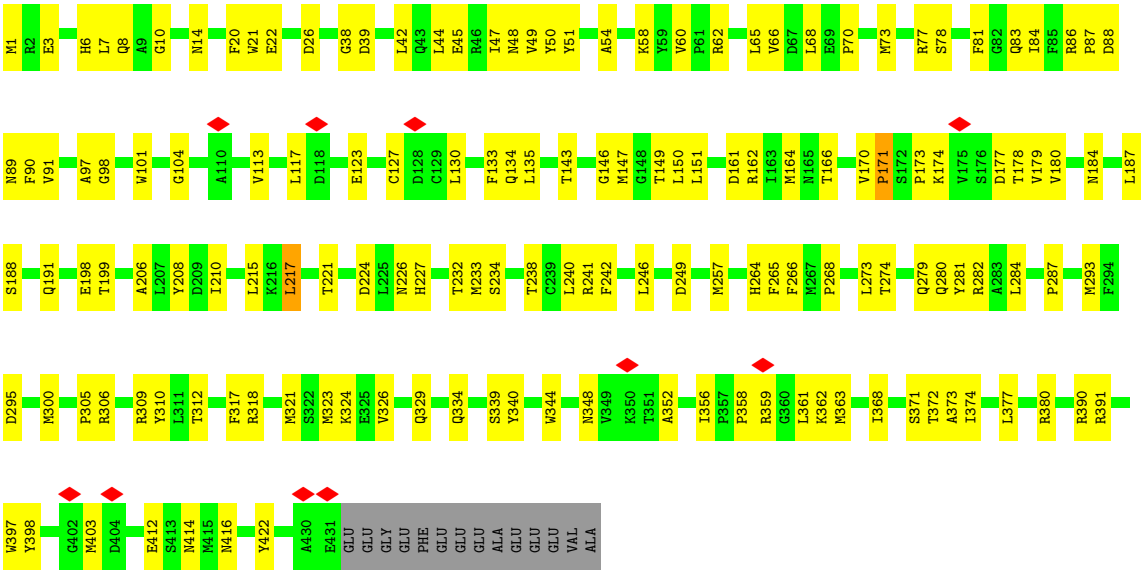

• Molecule 9: Tubulin beta-4B chain

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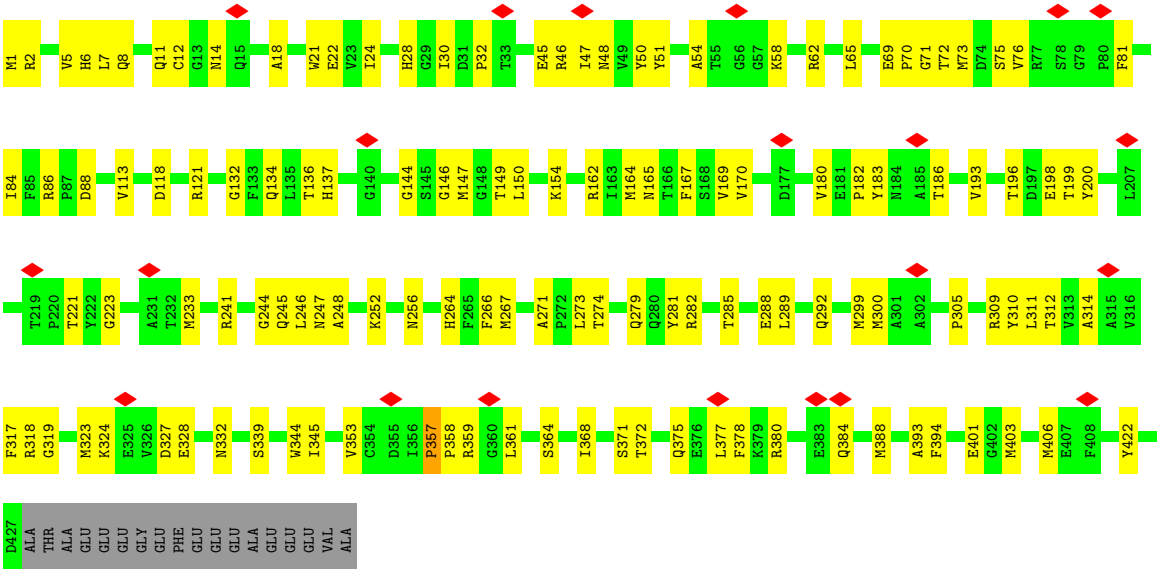
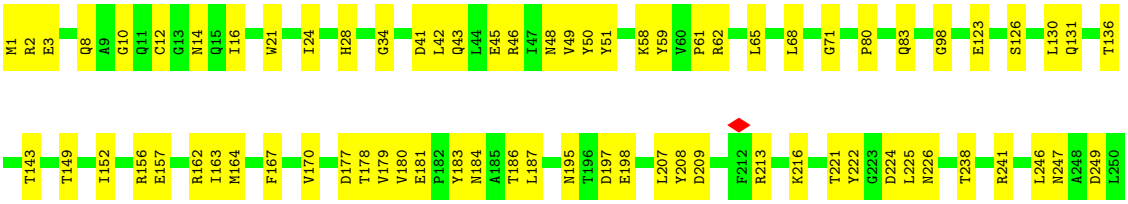
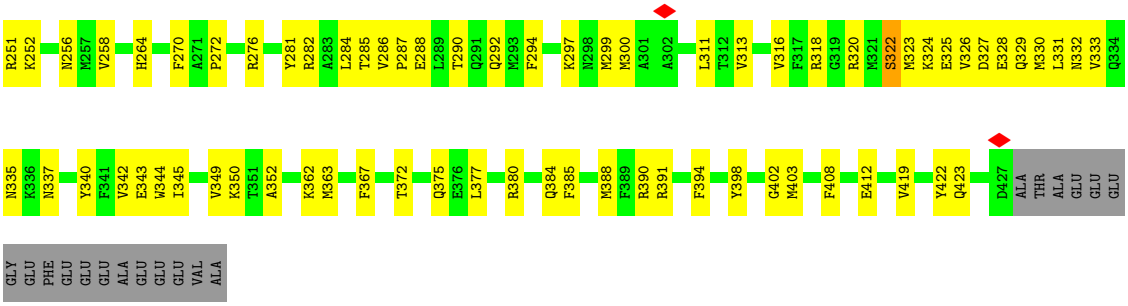


• Molecule 9: Tubulin beta-4B chain

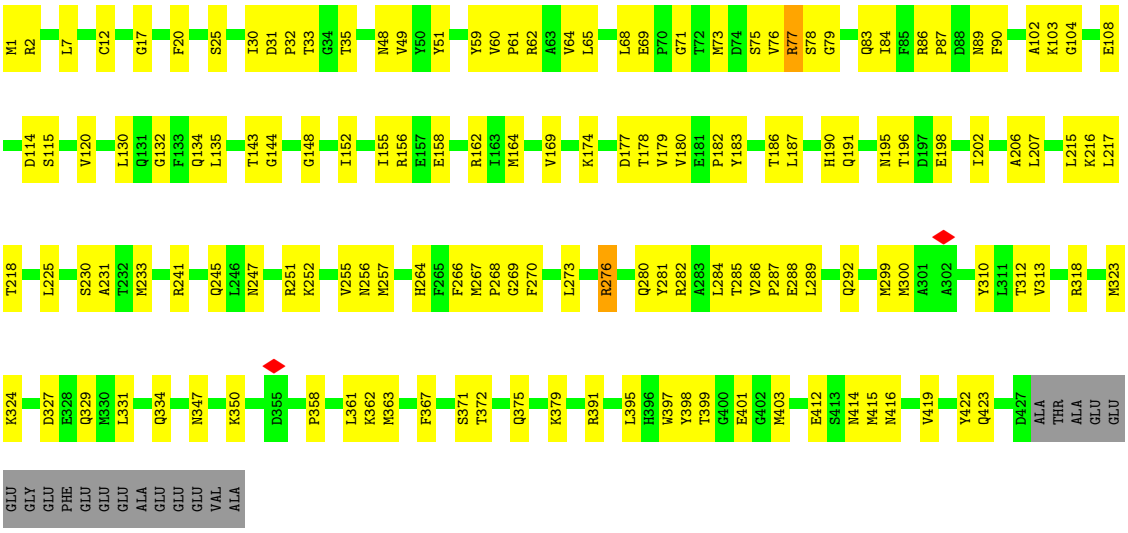
Chain JD:





• Molecule 9: Tubulin beta-4B chain

Chain JF:



• Molecule 9: Tubulin beta-4B chain

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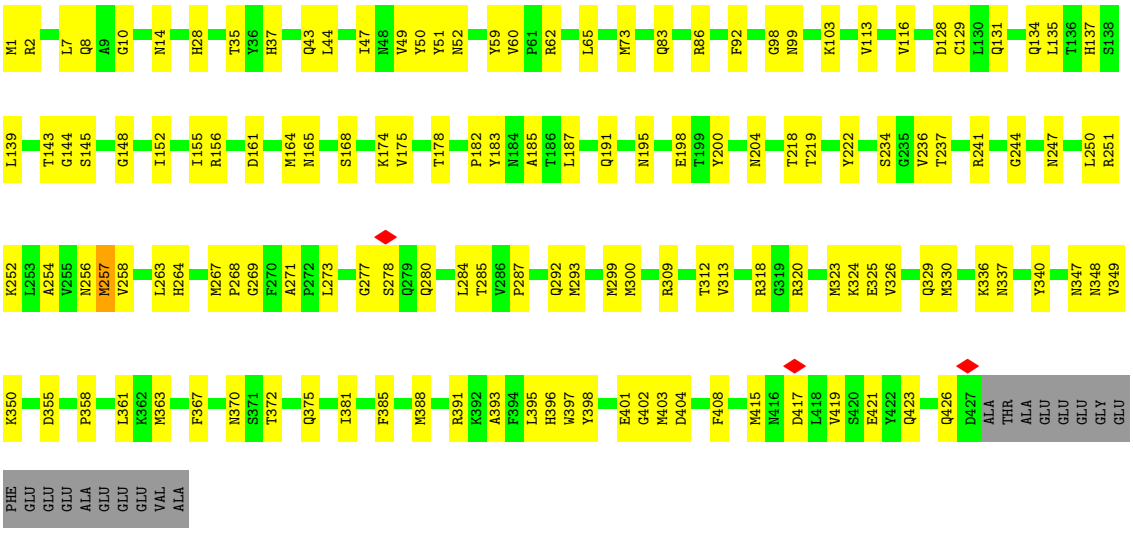
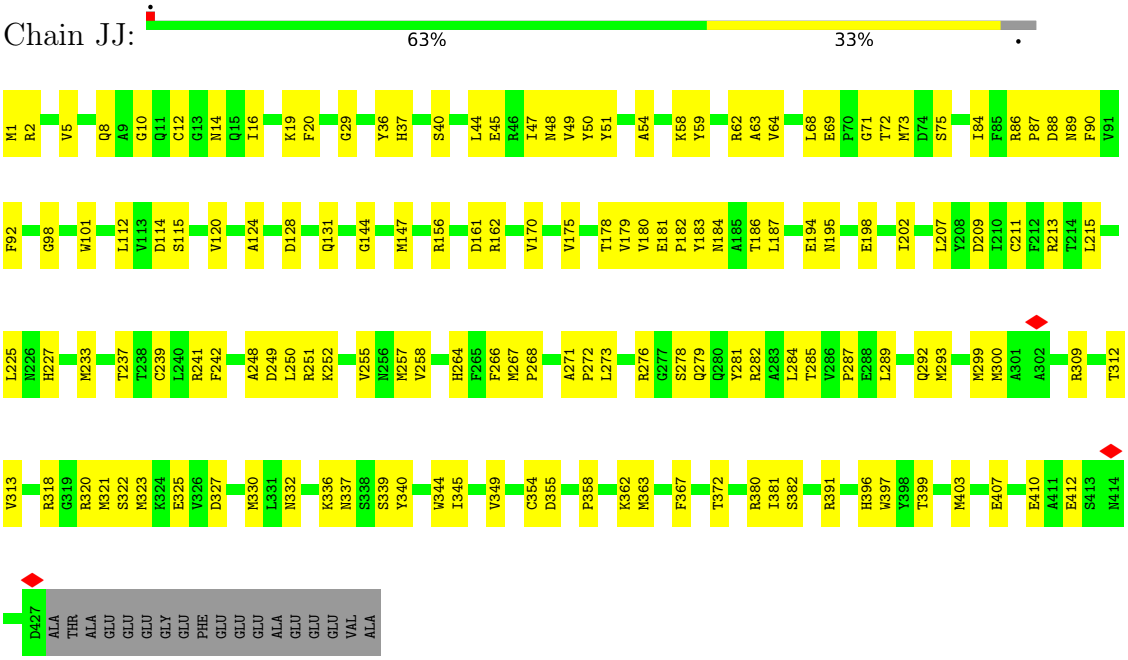


• Molecule 9: Tubulin beta-4B chain

Chain JJ:



• Molecule 9: Tubulin beta-4B chain

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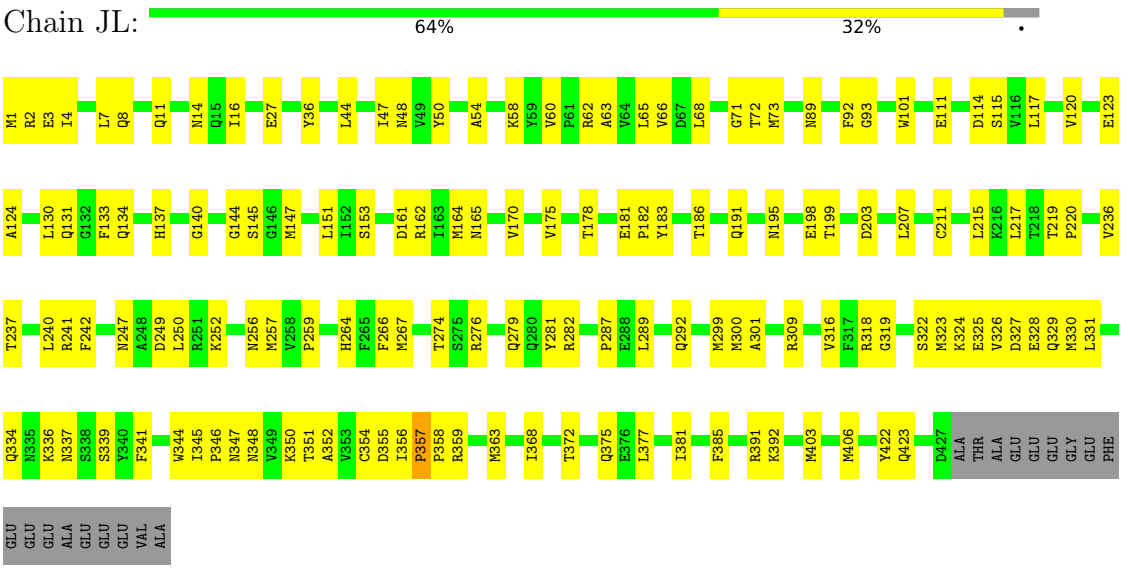

• Molecule 9: Tubulin beta-4B chain

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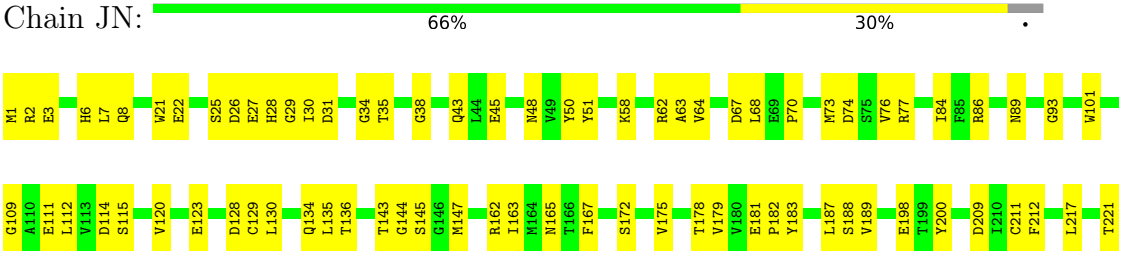

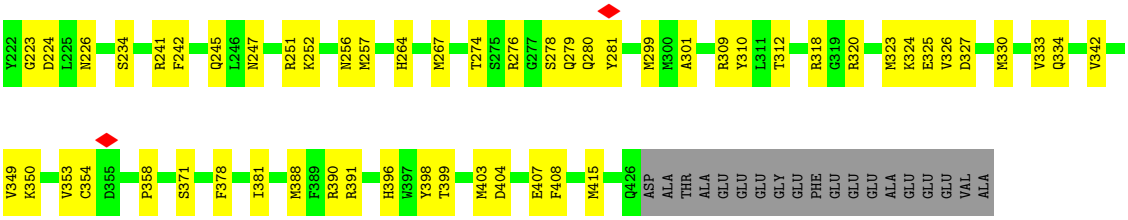

• Molecule 9: Tubulin beta-4B chain

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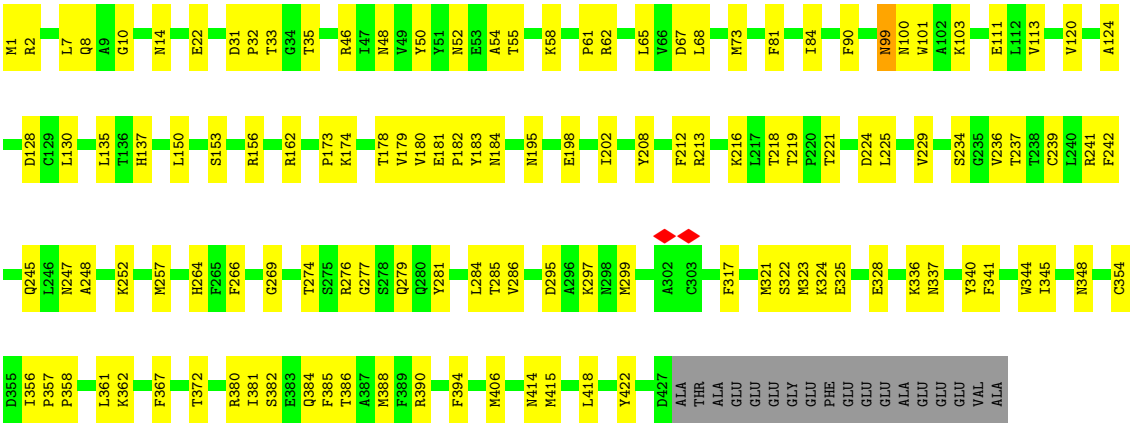
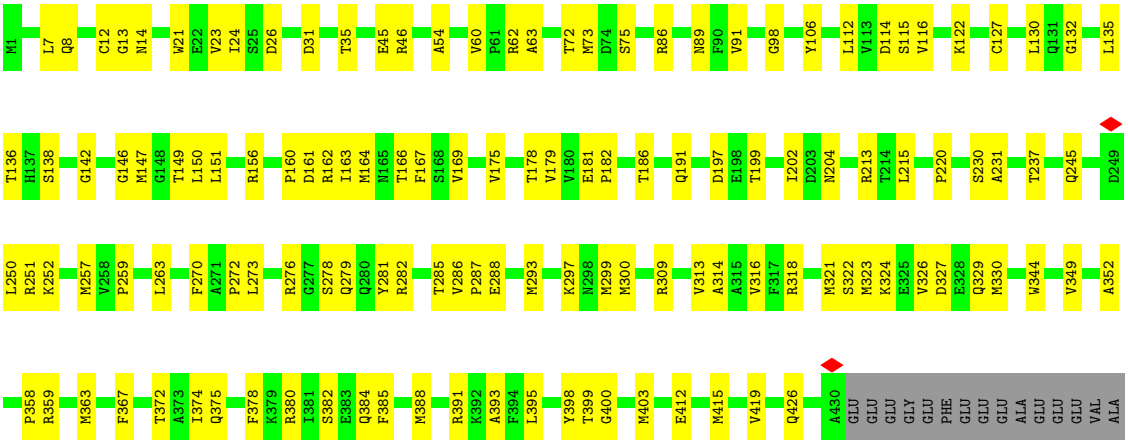


• Molecule 9: Tubulin beta-4B chain

Chain KB:



• Molecule 9: Tubulin beta-4B chain

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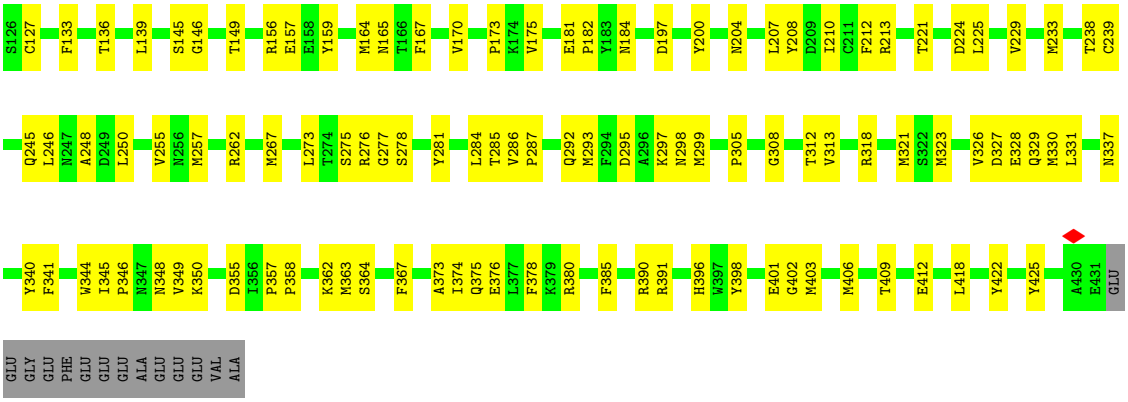
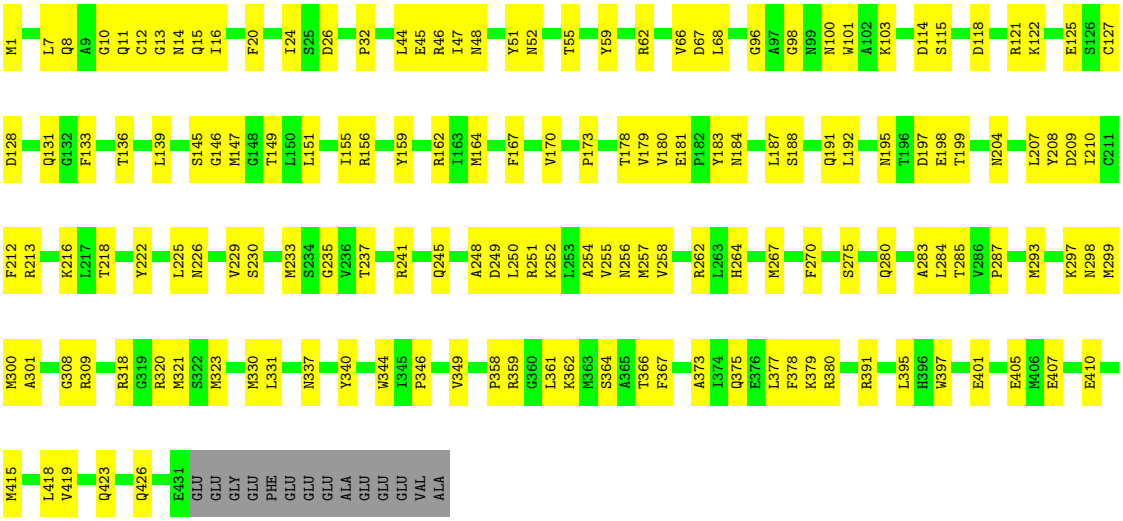


• Molecule 9: Tubulin beta-4B chain

Chain KF:

• Molecule 9: Tubulin beta-4B chain

Chain KH:



• Molecule 9: Tubulin beta-4B chain

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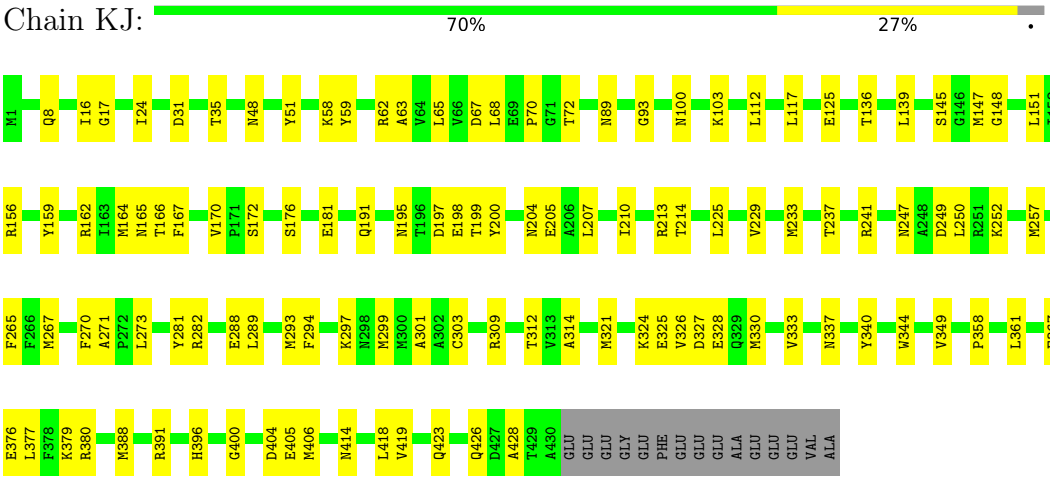
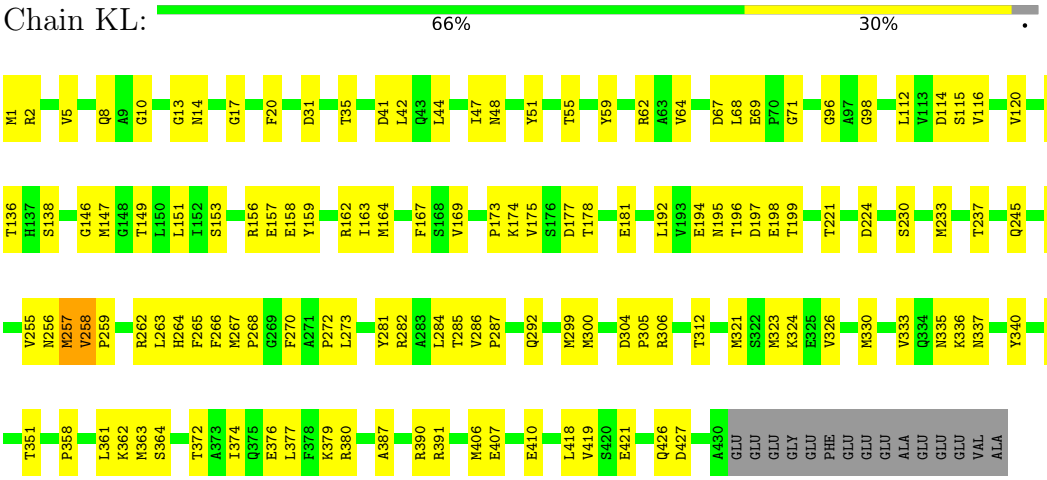


• Molecule 9: Tubulin beta-4B chain

Chain KL:



• Molecule 9: Tubulin beta-4B chain

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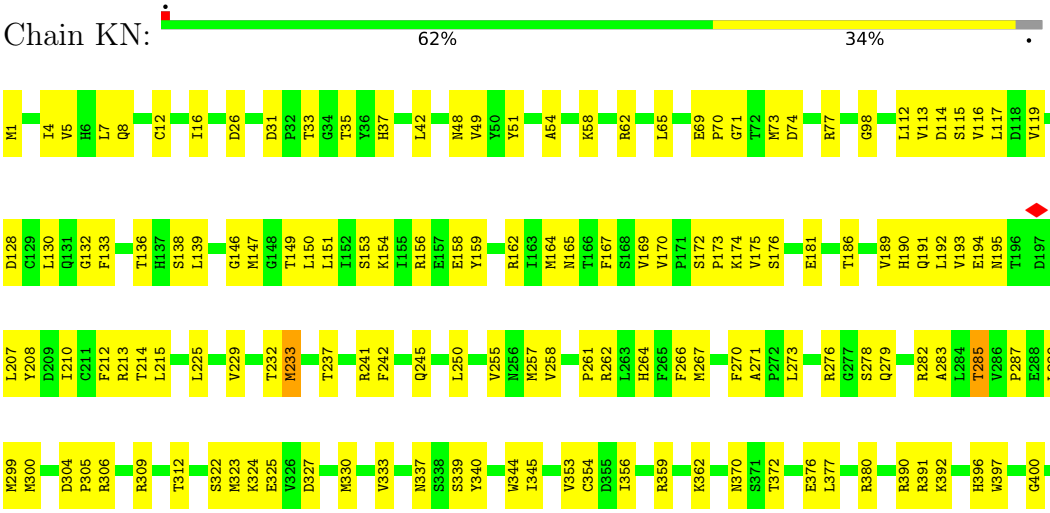
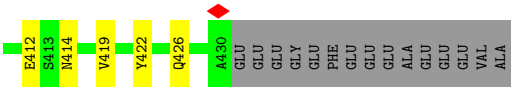
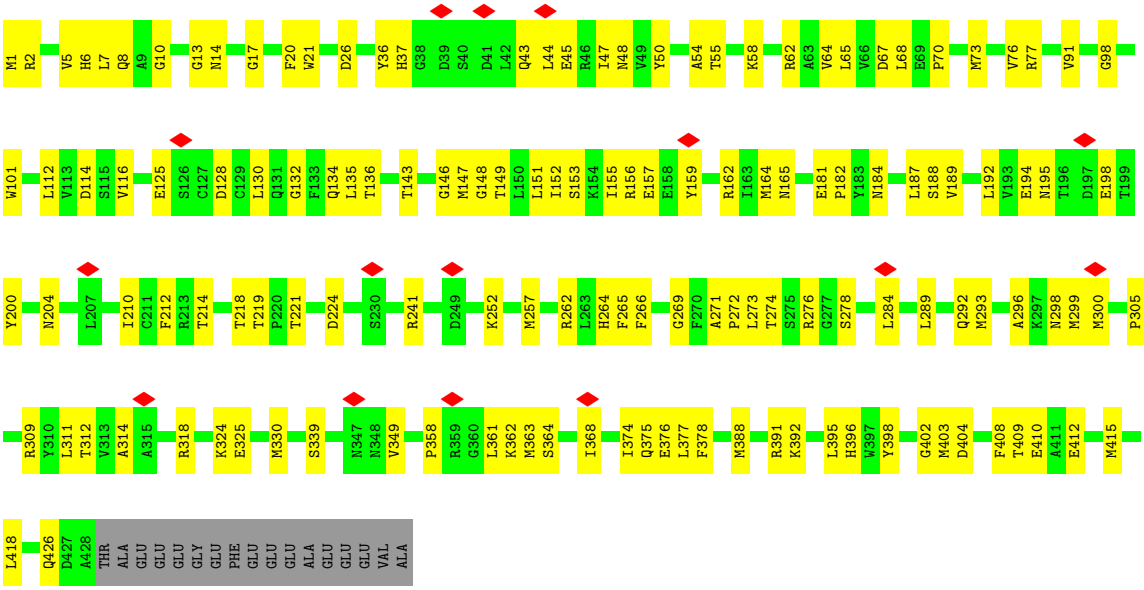




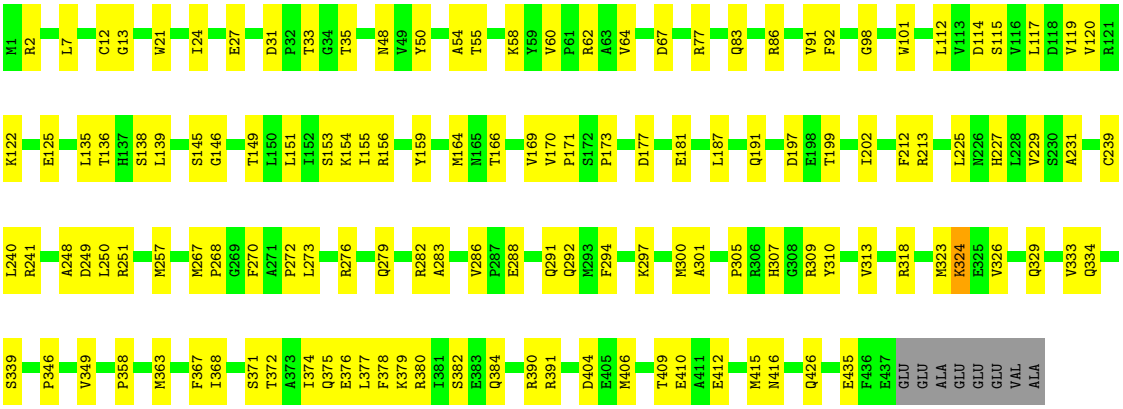
• Molecule 9: Tubulin beta-4B chain

Chain KP:



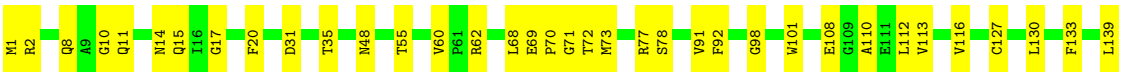
• Molecule 9: Tubulin beta-4B chain

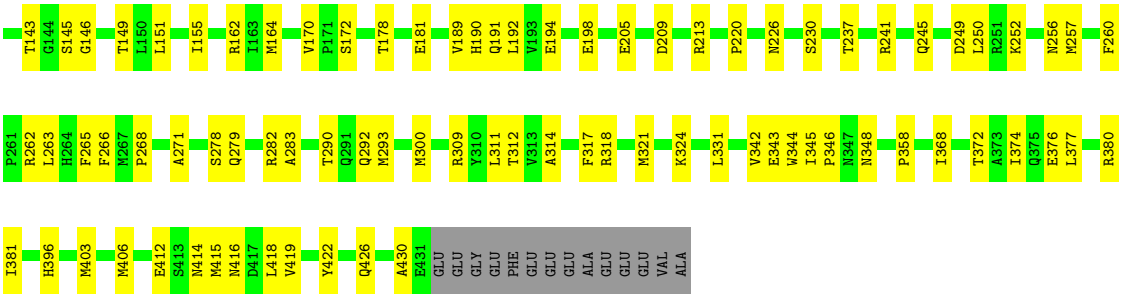
Chain LB:



• Molecule 9: Tubulin beta-4B chain

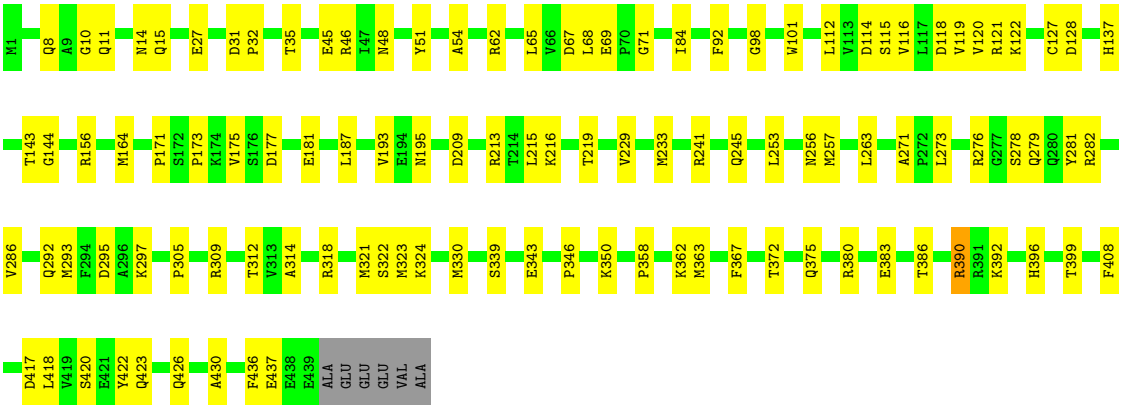
Chain LD:





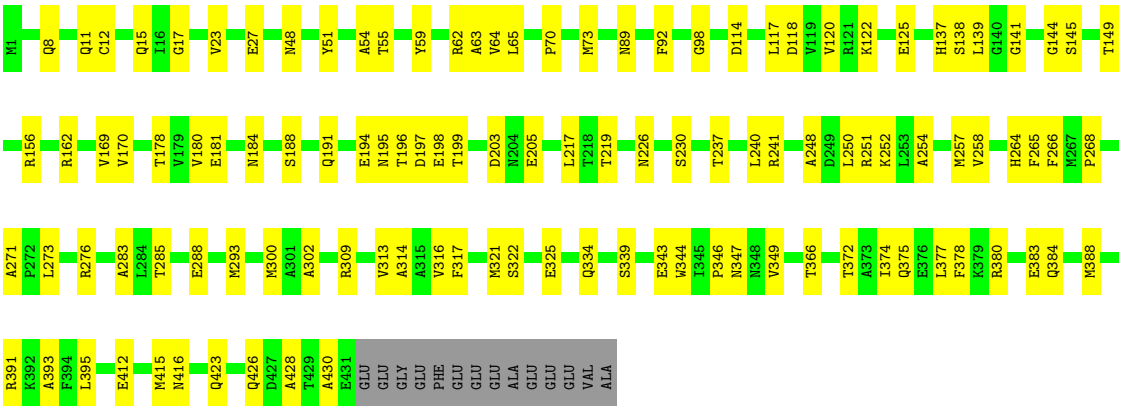
• Molecule 9: Tubulin beta-4B chain

Chain LF:



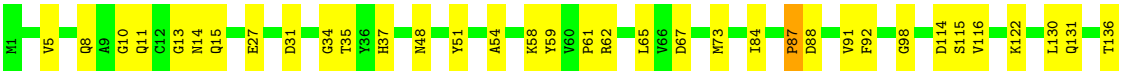
• Molecule 9: Tubulin beta-4B chain

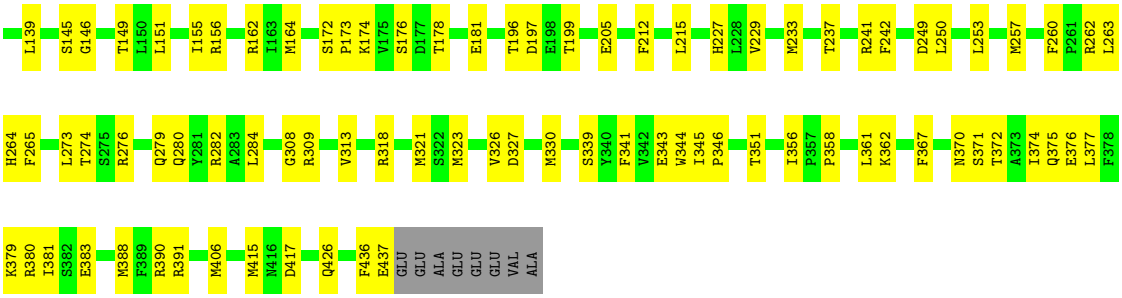
Chain LH:



• Molecule 9: Tubulin beta-4B chain

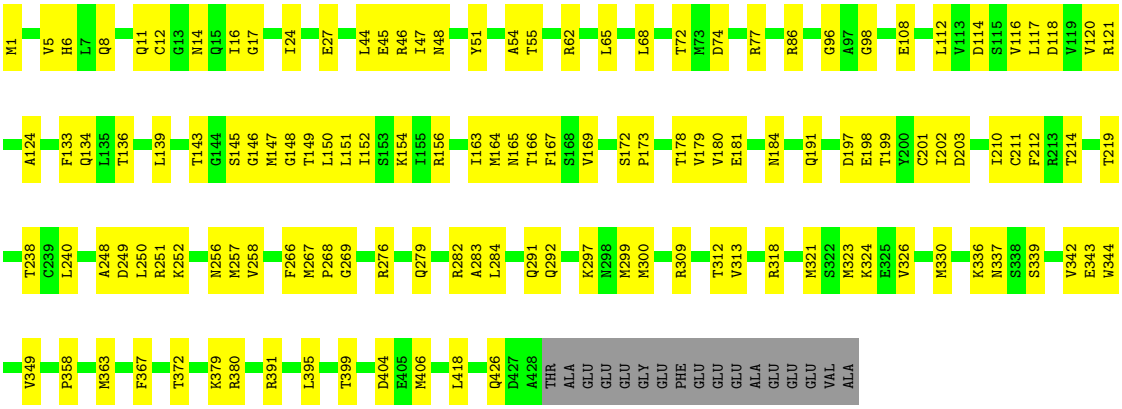
Chain LJ:





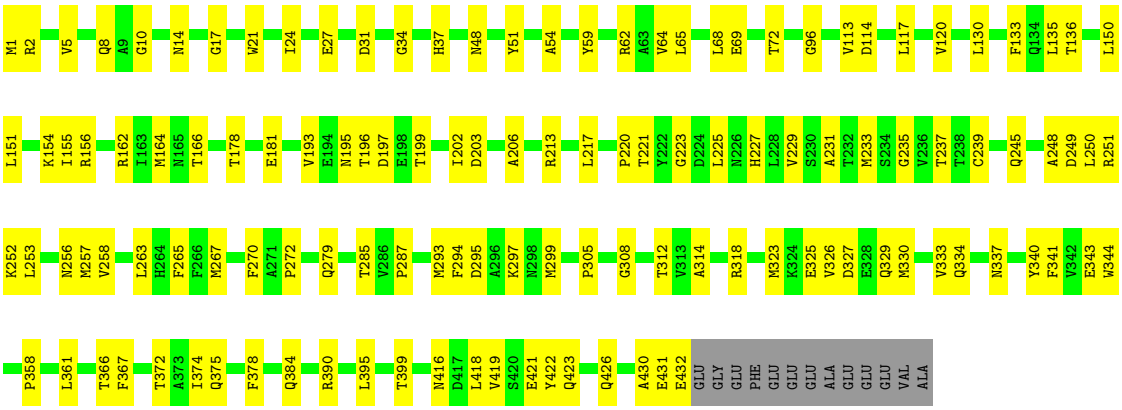
• Molecule 9: Tubulin beta-4B chain

Chain LL:



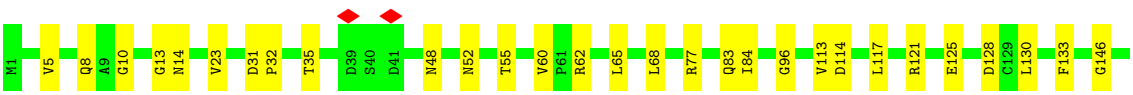
• Molecule 9: Tubulin beta-4B chain

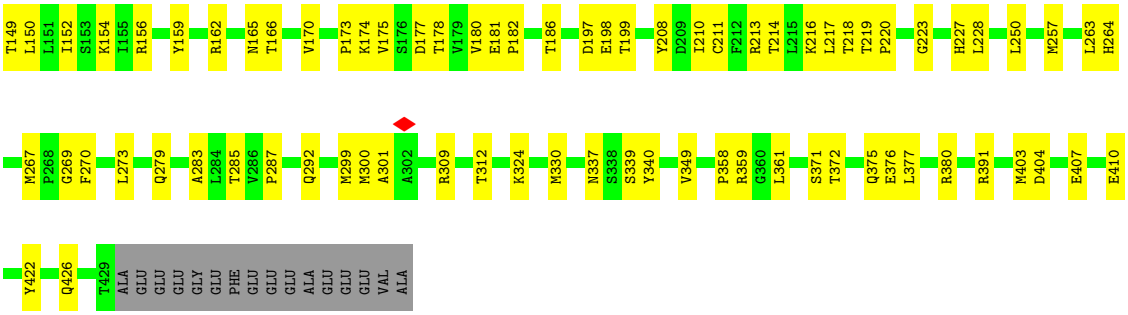
Chain LN:



• Molecule 9: Tubulin beta-4B chain

Chain LP:





• Molecule 9: Tubulin beta-4B chain

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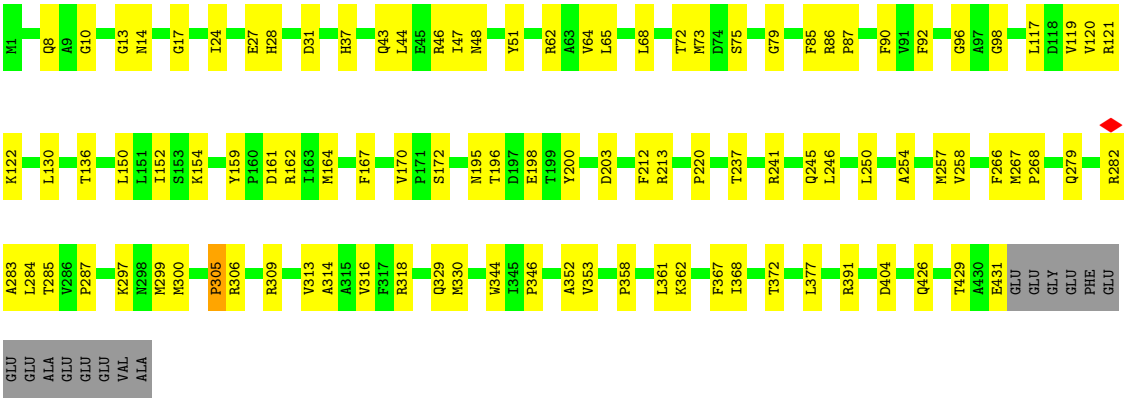
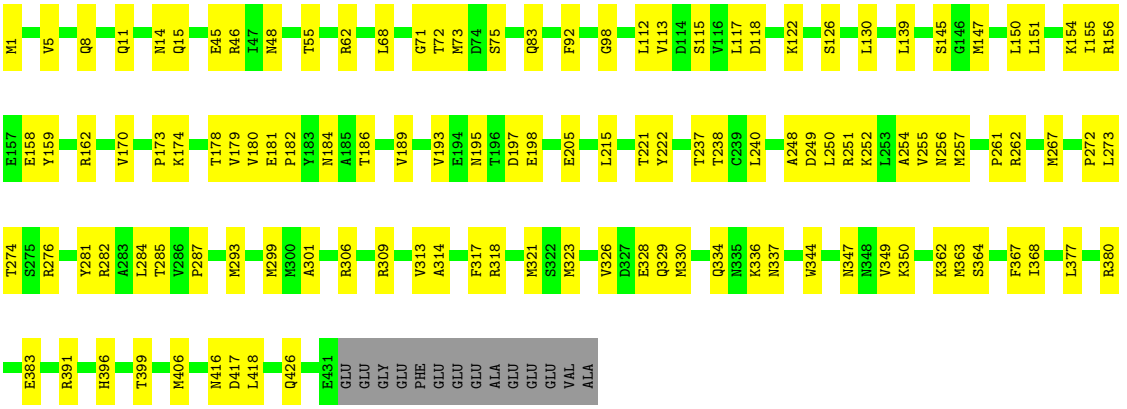


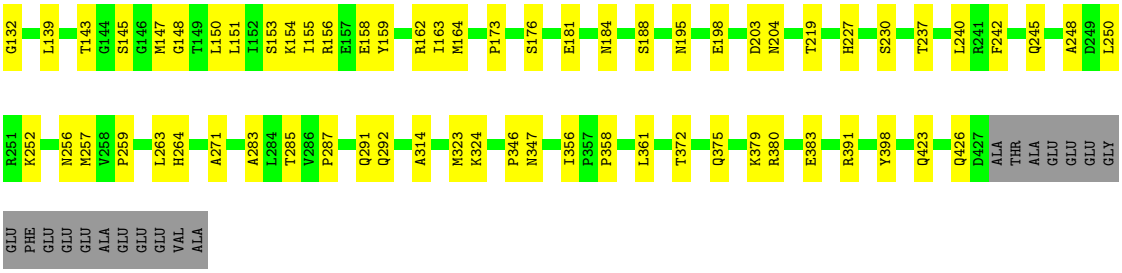
• Molecule 9: Tubulin beta-4B chain

Chain MD:



• Molecule 9: Tubulin beta-4B chain

Chain MF:



• Molecule 9: Tubulin beta-4B chain

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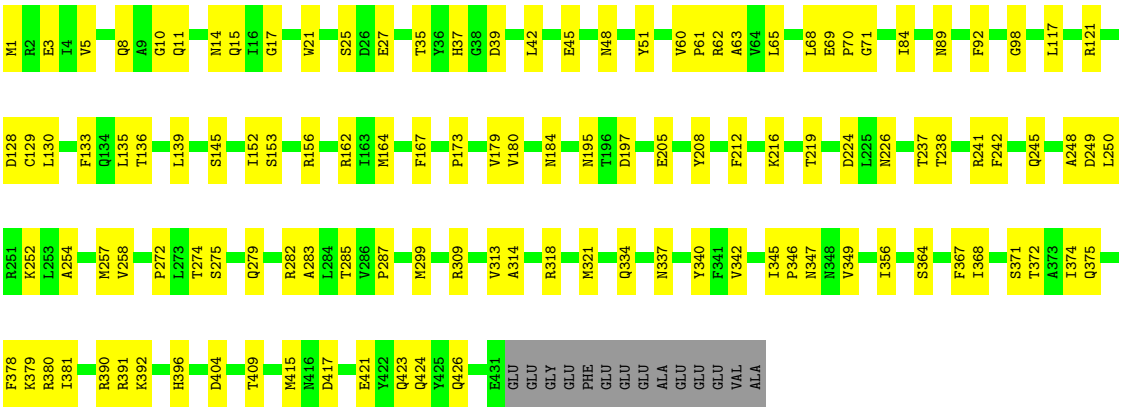

• Molecule 9: Tubulin beta-4B chain

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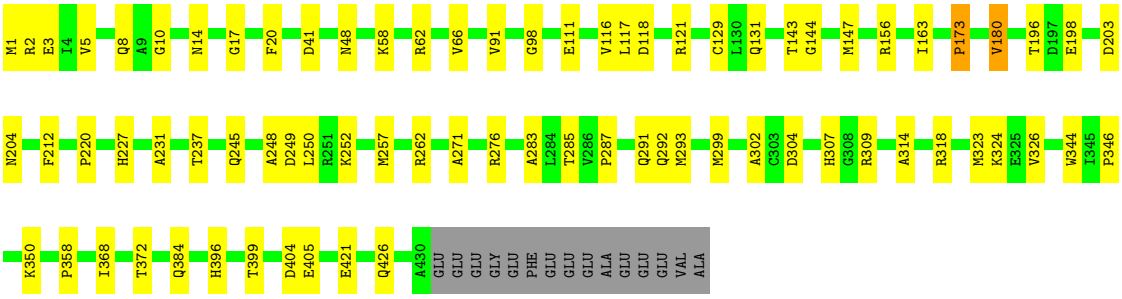

• Molecule 9: Tubulin beta-4B chain

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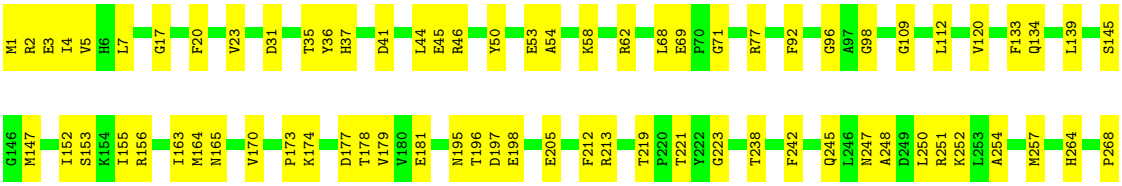

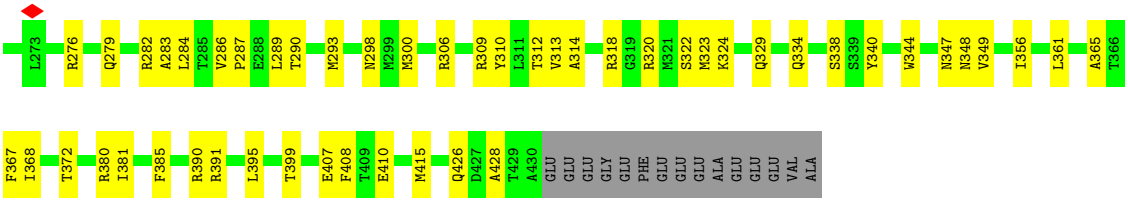

• Molecule 9: Tubulin beta-4B chain

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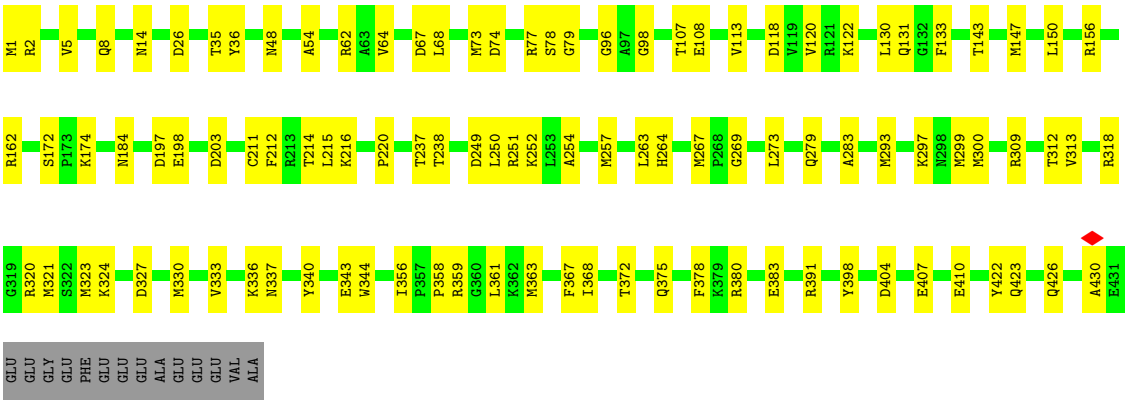

• Molecule 9: Tubulin beta-4B chain

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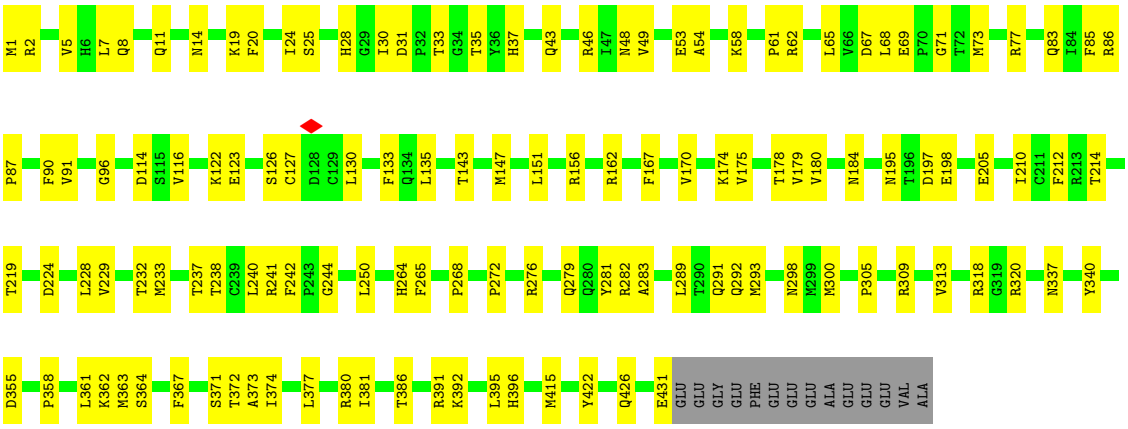

• Molecule 9: Tubulin beta-4B chain

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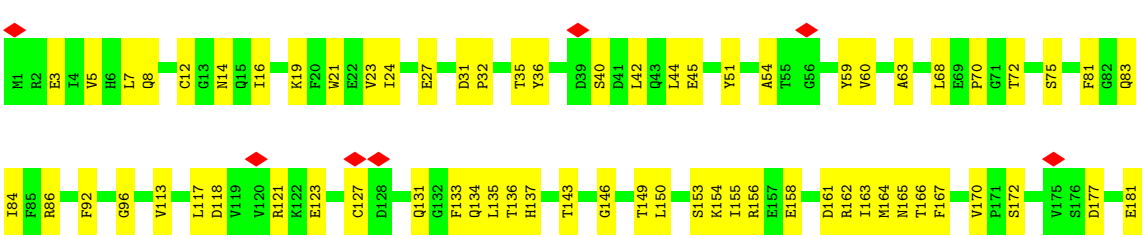

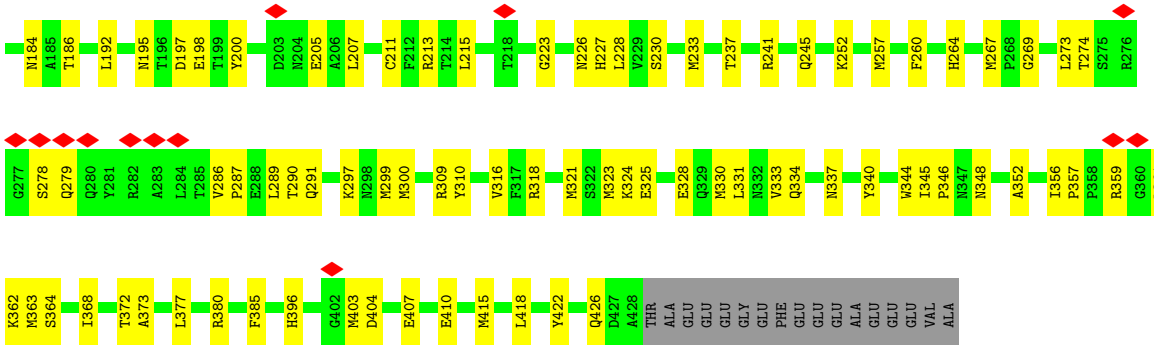

• Molecule 9: Tubulin beta-4B chain

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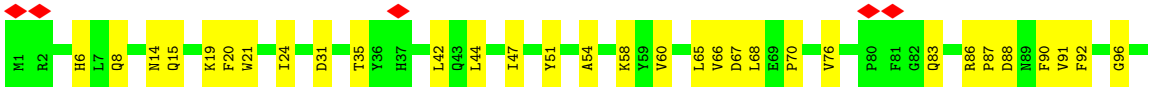
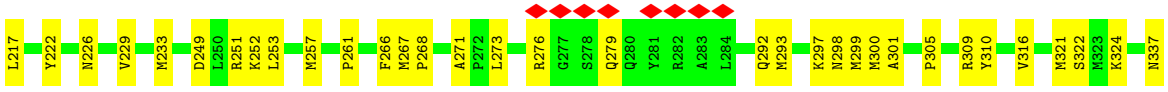
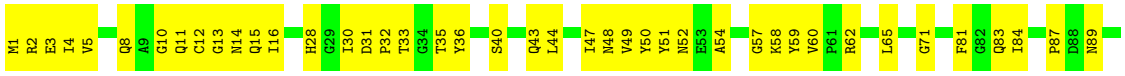
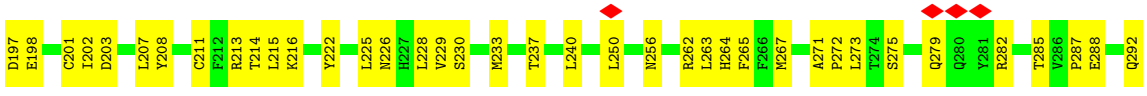


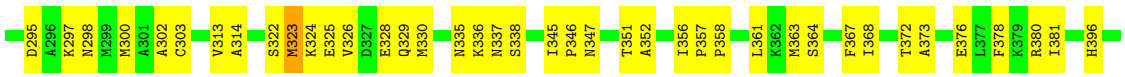


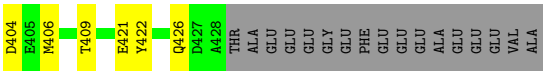
• Molecule 9: Tubulin beta-4B chain

Chain NF:









• Molecule 9: Tubulin beta-4B chain

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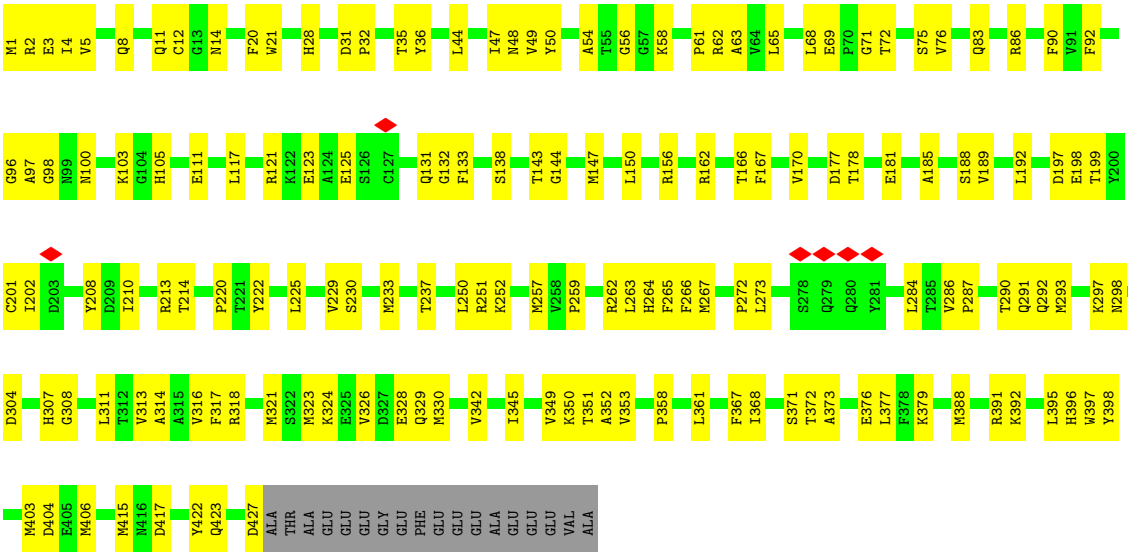
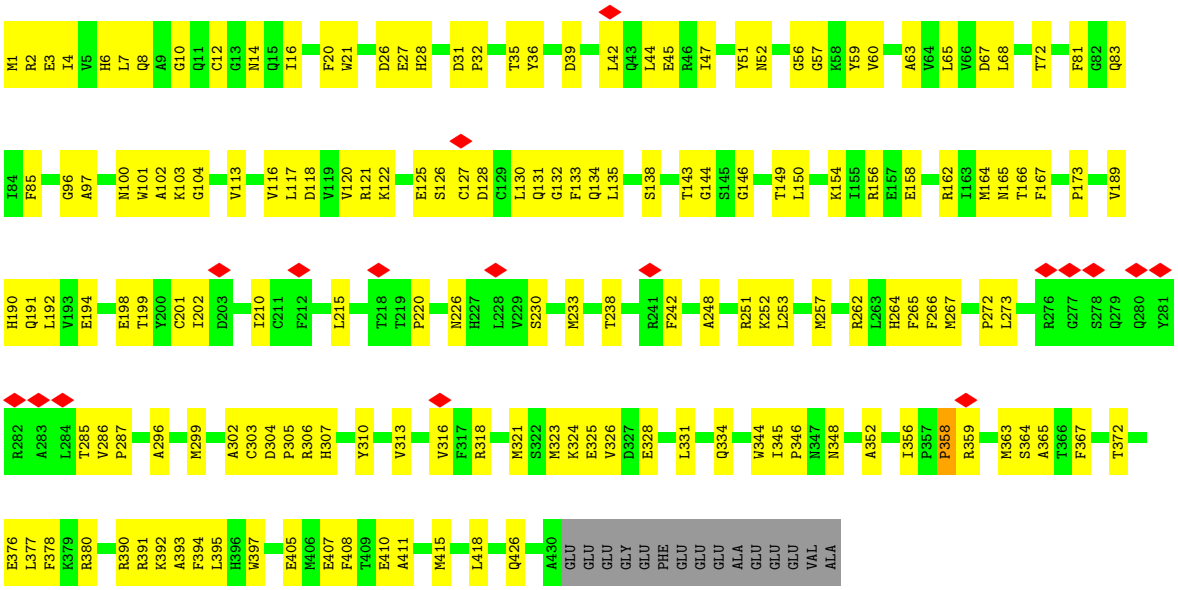


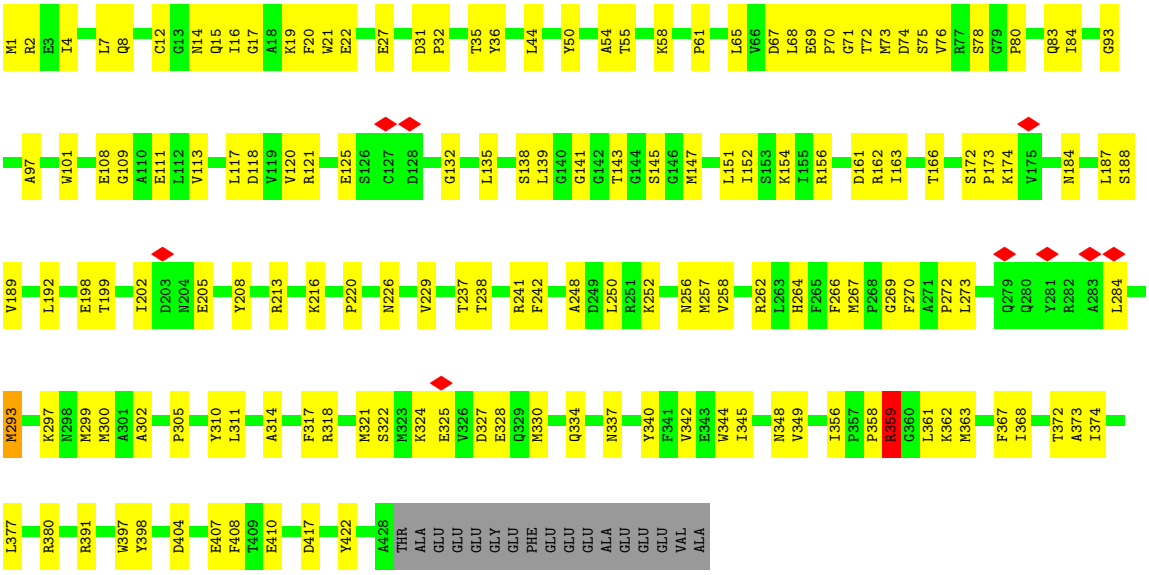
• Molecule 9: Tubulin beta-4B chain

Chain NJ:



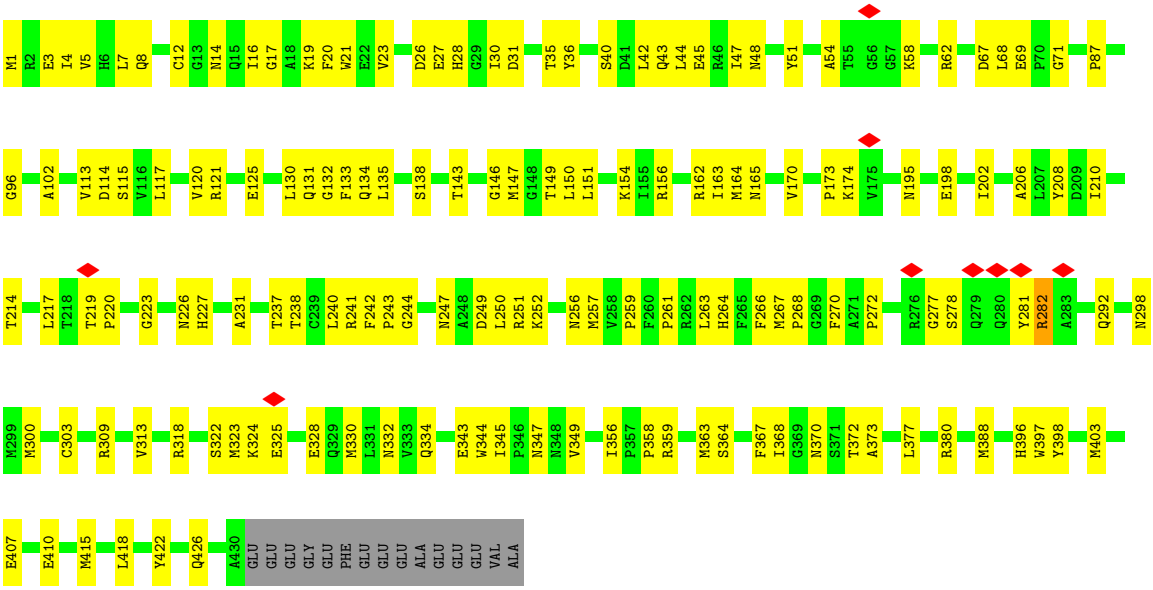
• Molecule 9: Tubulin beta-4B chain

Chain NL:



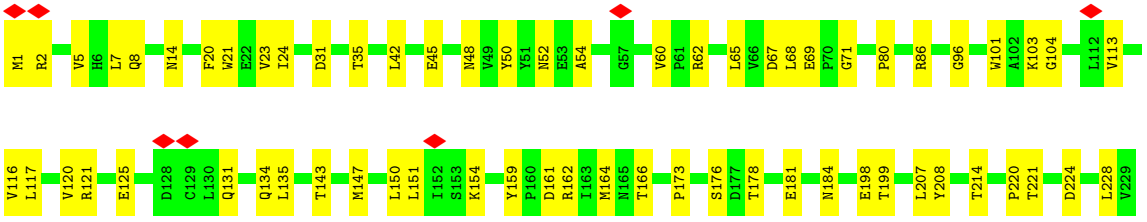
• Molecule 9: Tubulin beta-4B chain

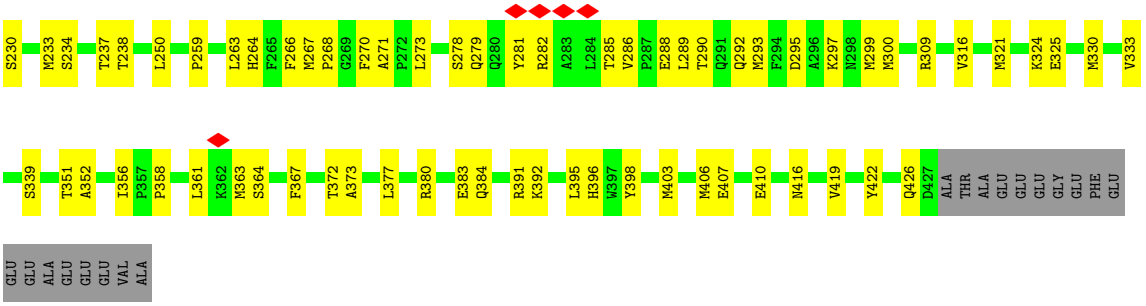
Chain NN:



• Molecule 9: Tubulin beta-4B chain

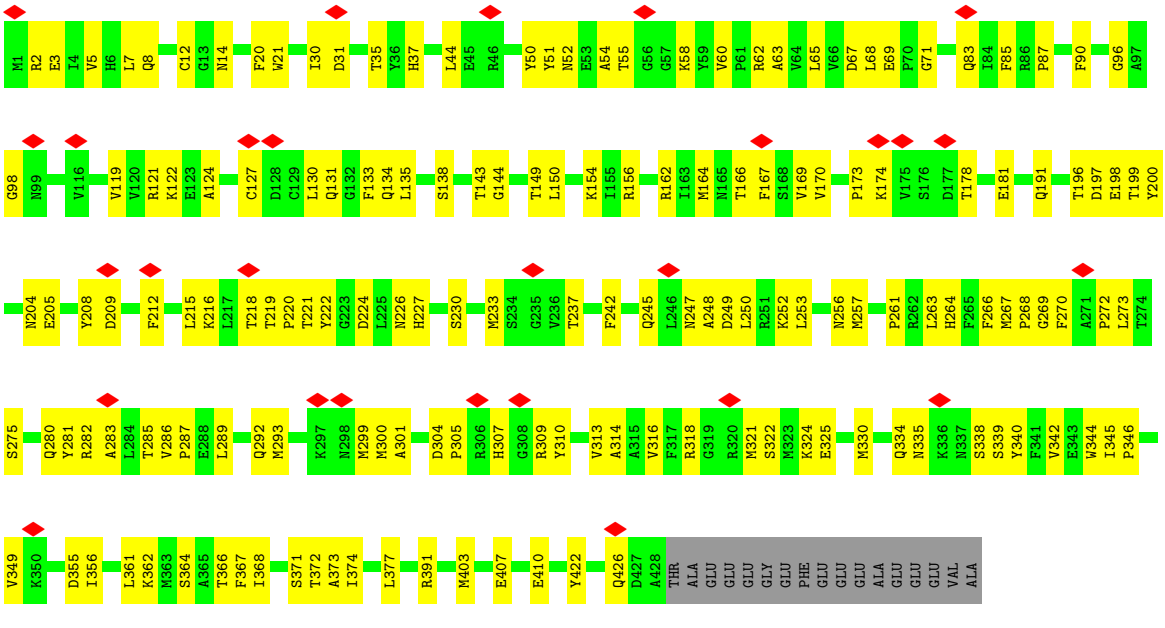
Chain NP:





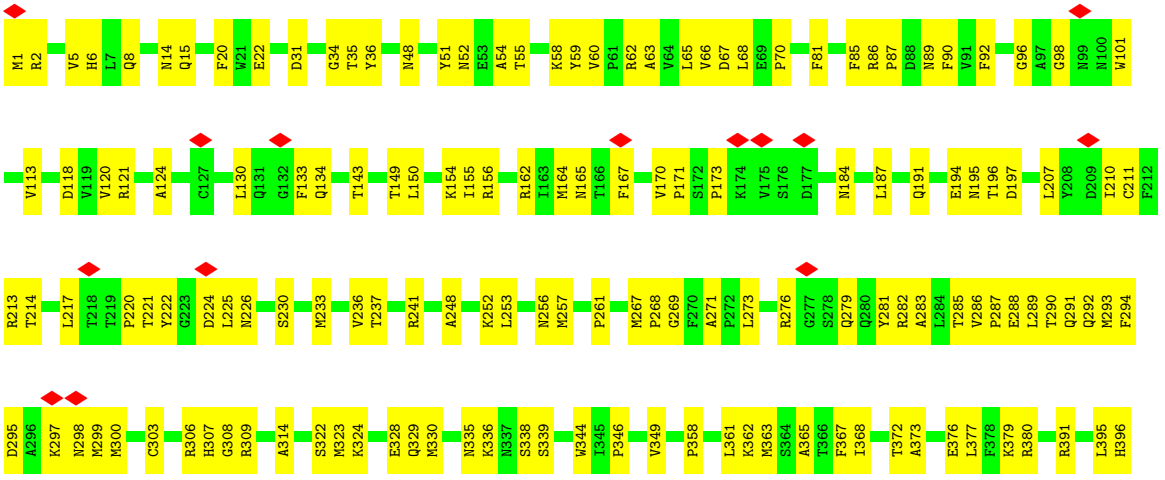
• Molecule 9: Tubulin beta-4B chain

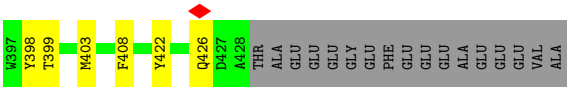
Chain OB:



• Molecule 9: Tubulin beta-4B chain

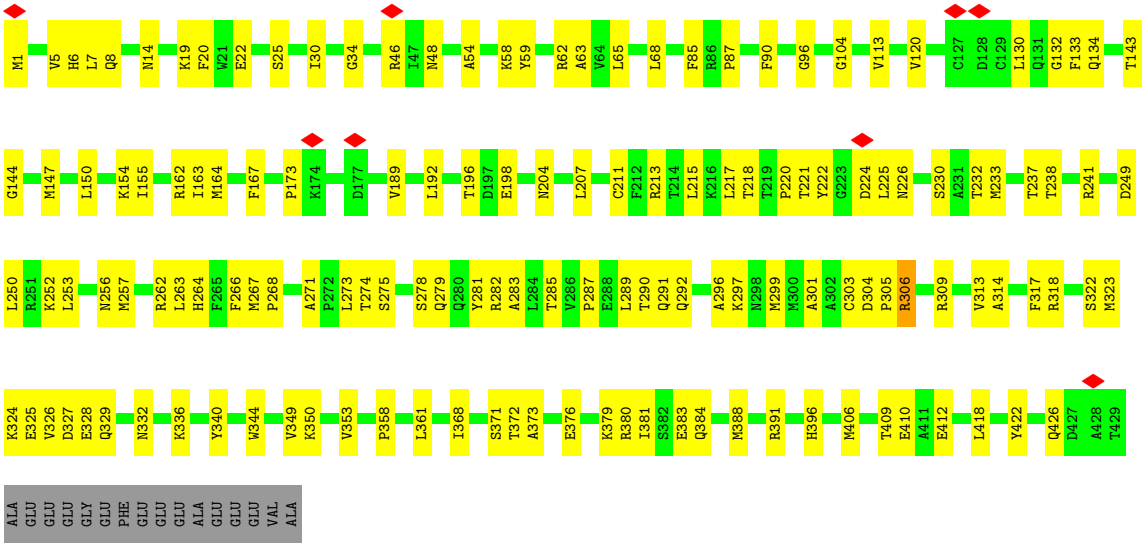
Chain OD:





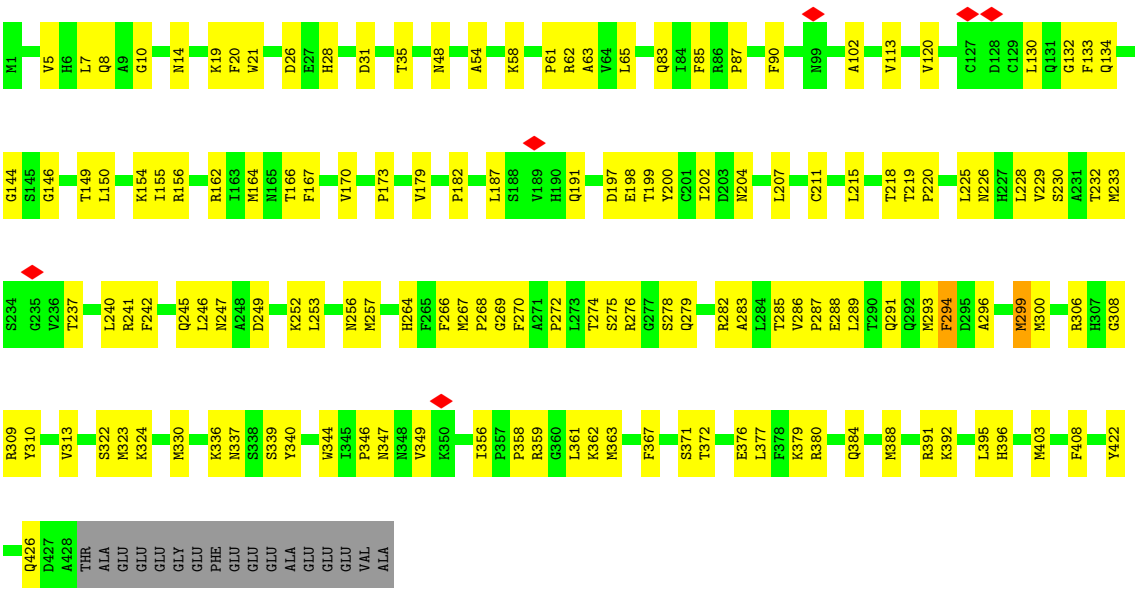
• Molecule 9: Tubulin beta-4B chain

Chain OF:



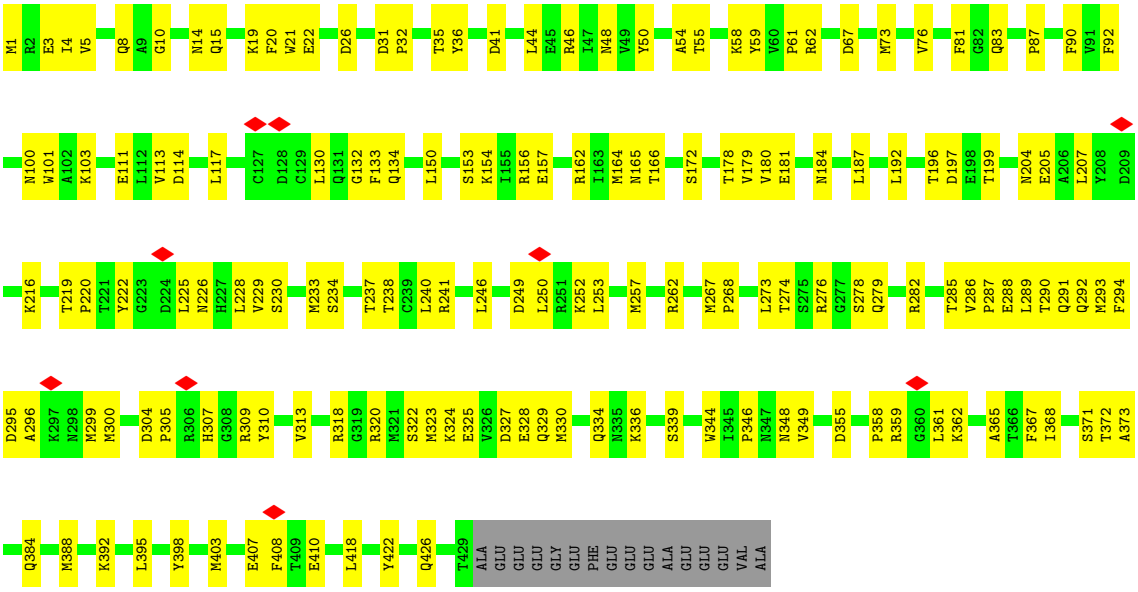
• Molecule 9: Tubulin beta-4B chain

Chain OH:



• Molecule 9: Tubulin beta-4B chain

Chain OJ:



• Molecule 9: Tubulin beta-4B chain

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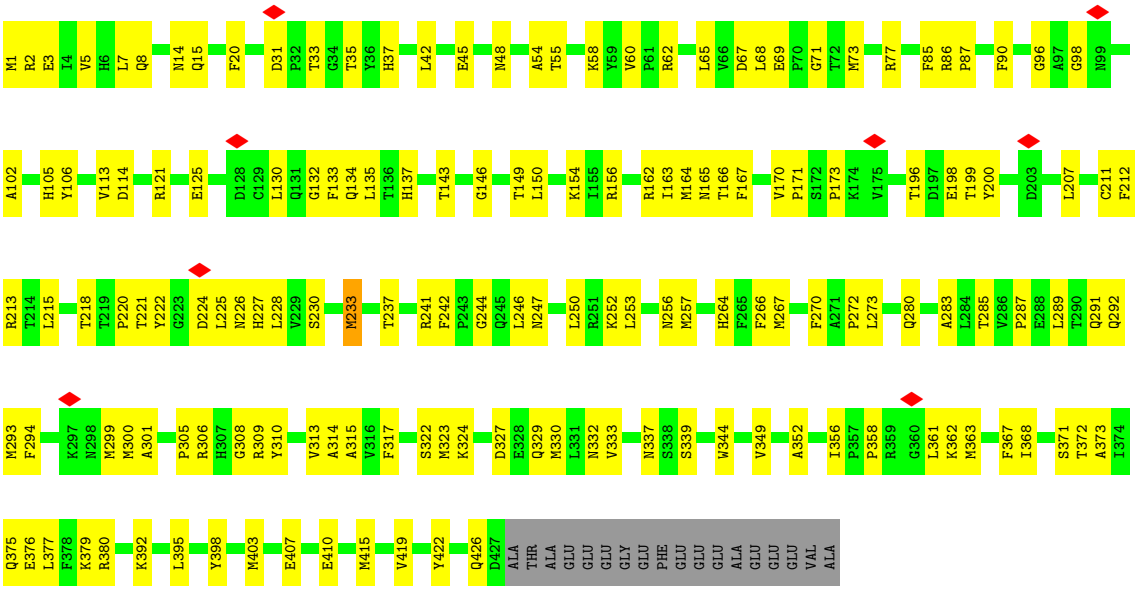
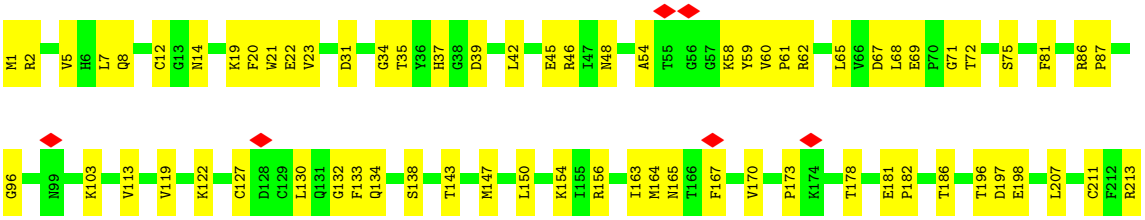
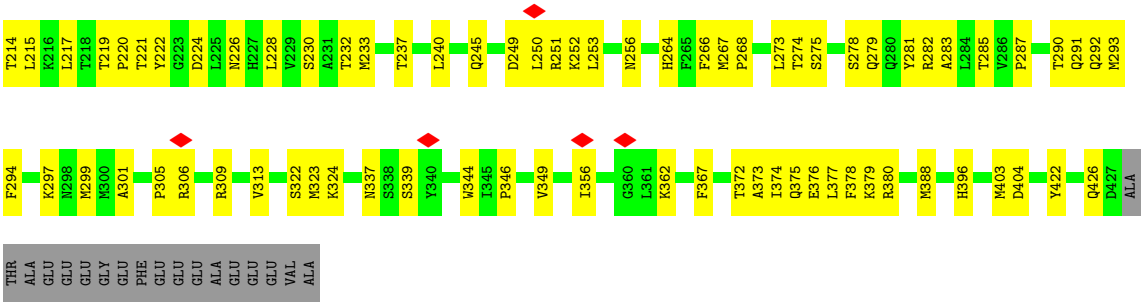


• Molecule 9: Tubulin beta-4B chain

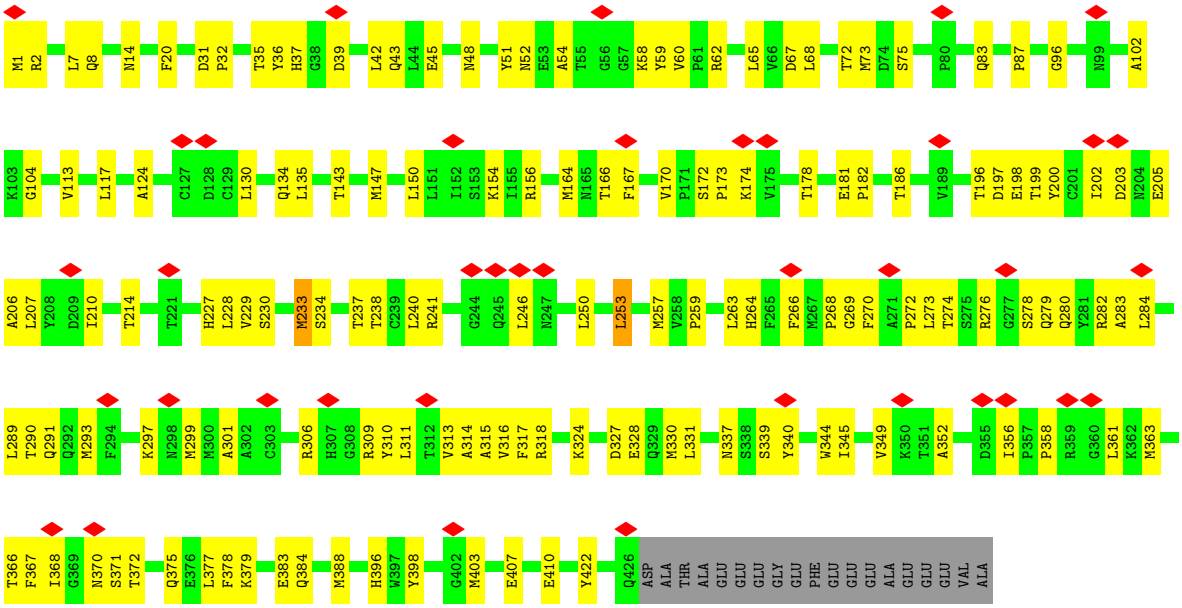
Chain ON:





• Molecule 9: Tubulin beta-4B chain

Chain OP:



• Molecule 9: Tubulin beta-4B chain

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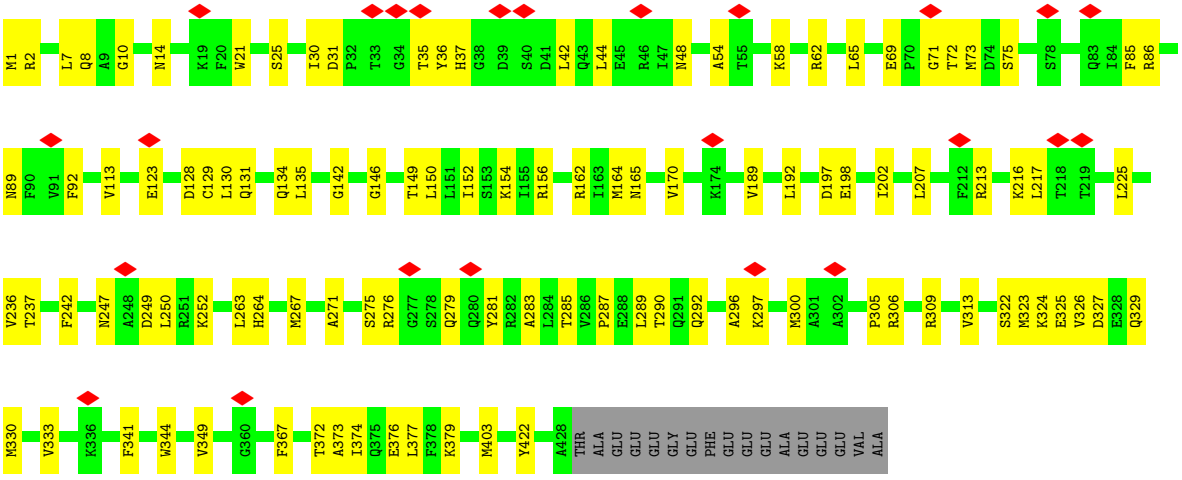

• Molecule 9: Tubulin beta-4B chain

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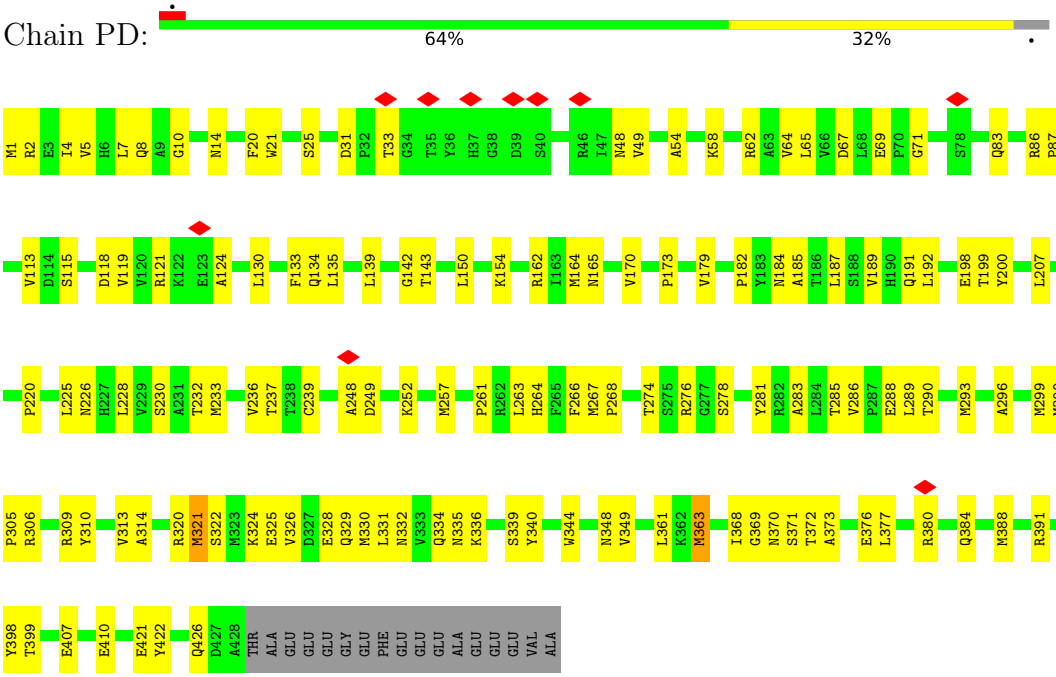
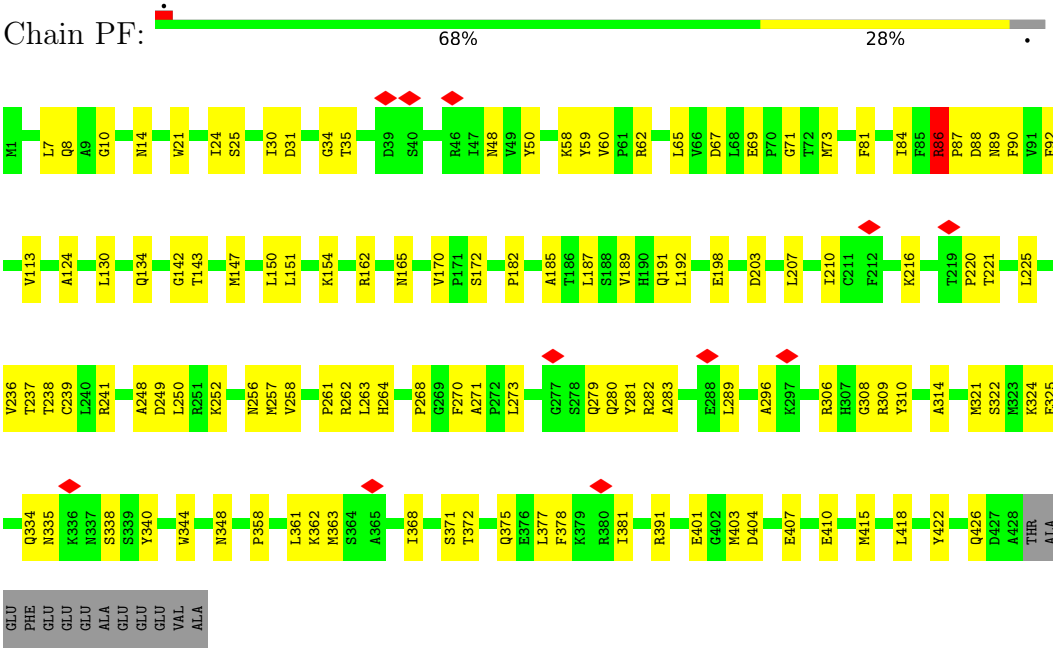


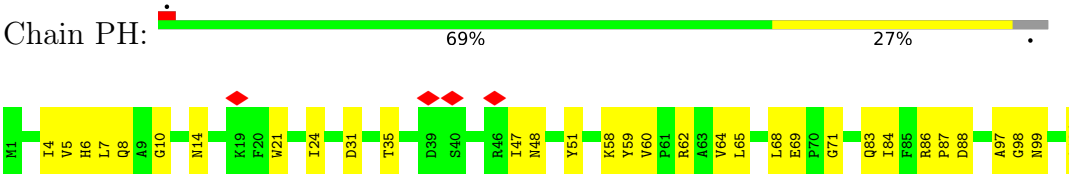
• Molecule 9: Tubulin beta-4B chain

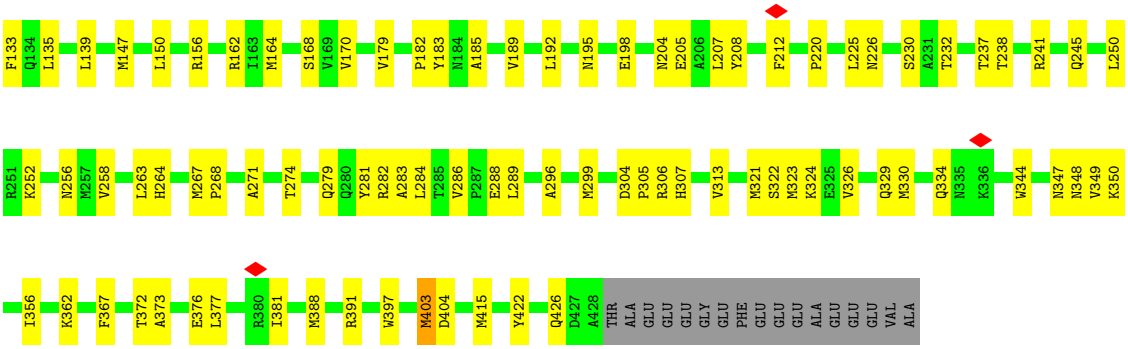
Chain PF:



• Molecule 9: Tubulin beta-4B chain

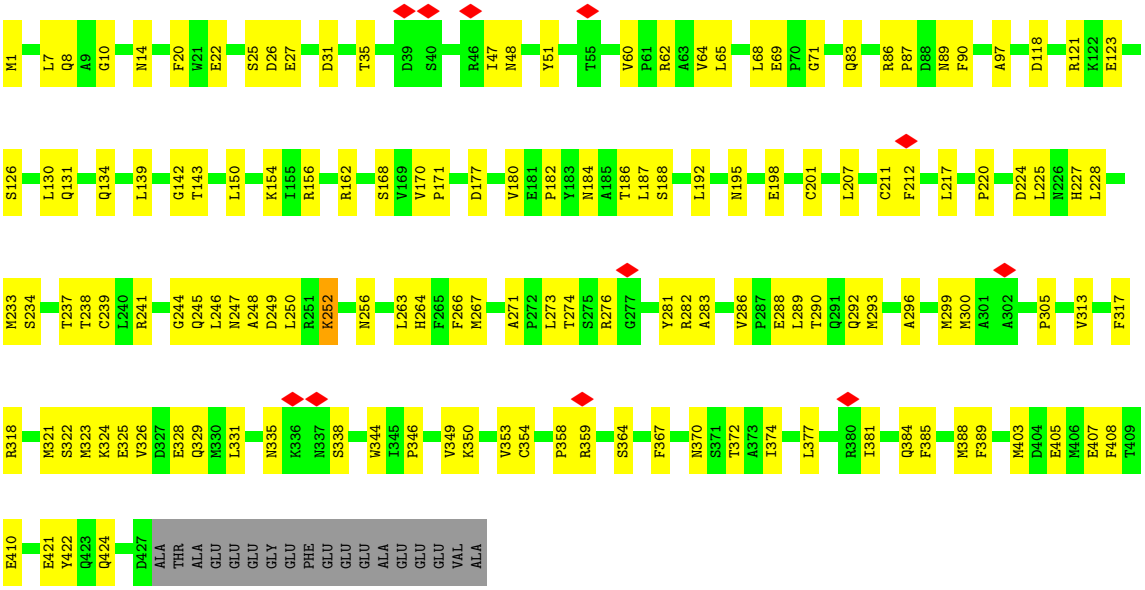
Chain PH:





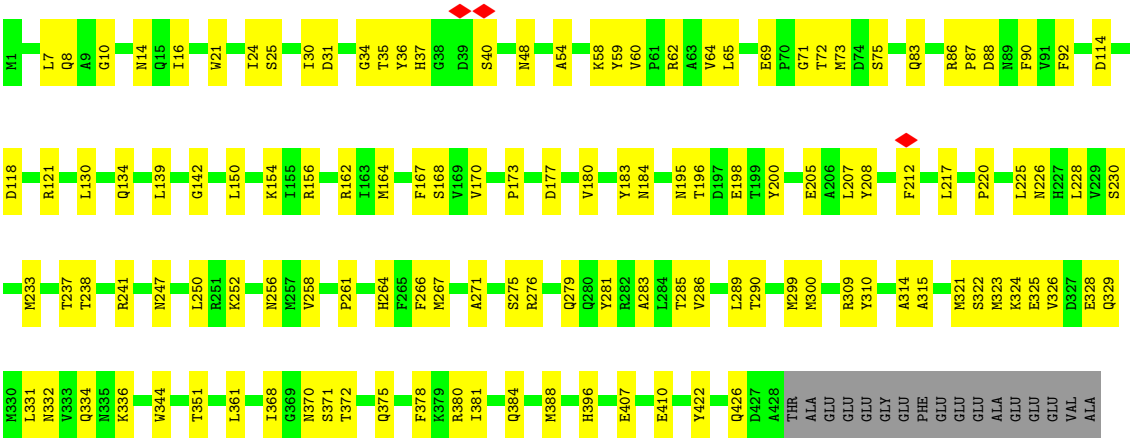
• Molecule 9: Tubulin beta-4B chain

Chain PJ:



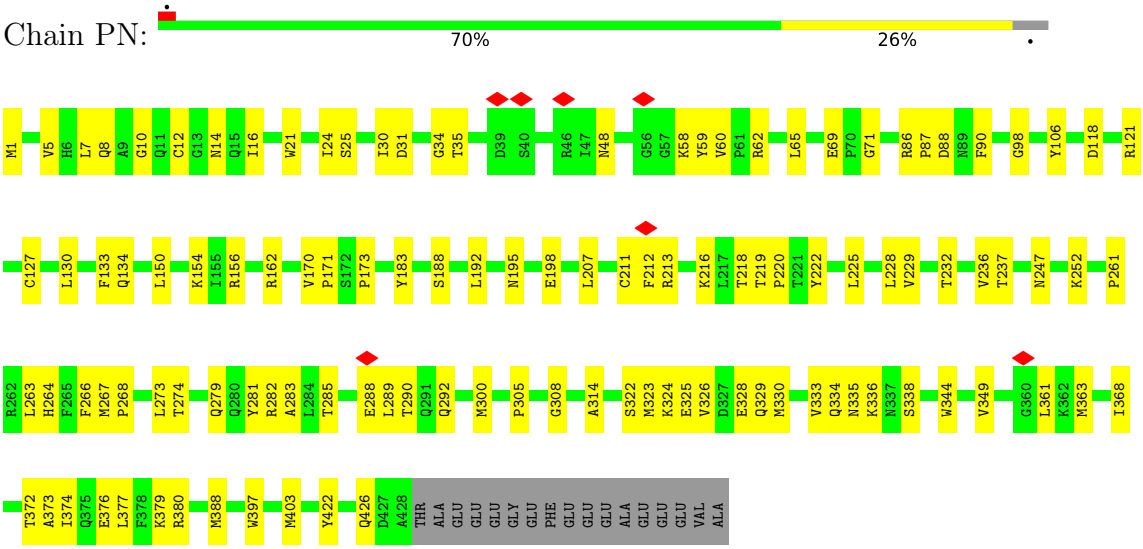
• Molecule 9: Tubulin beta-4B chain

Chain PL:



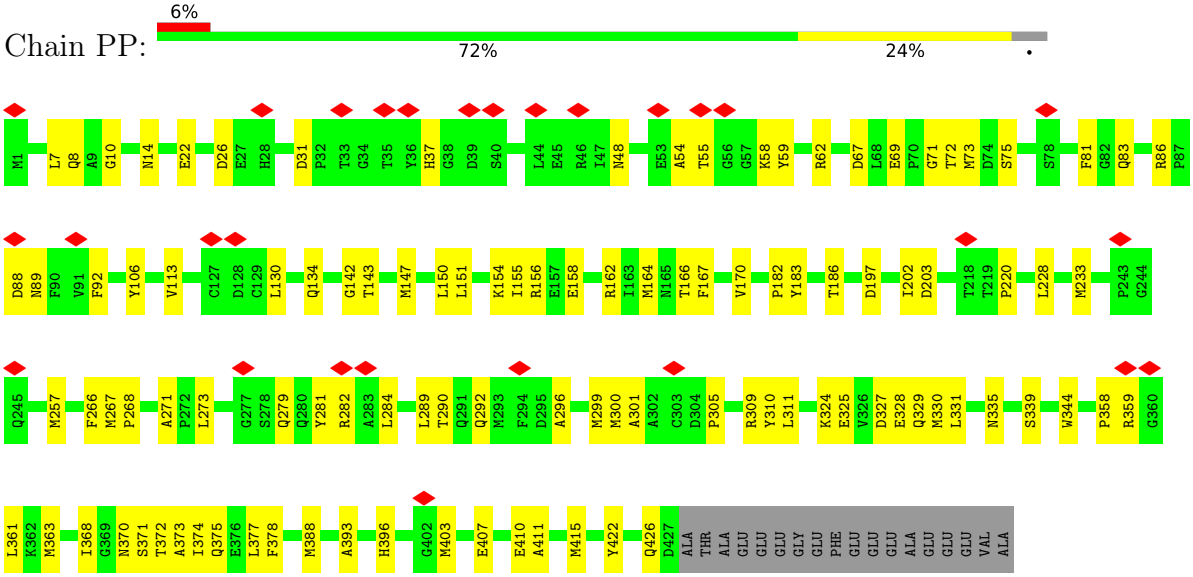
• Molecule 9: Tubulin beta-4B chain

Chain PN:



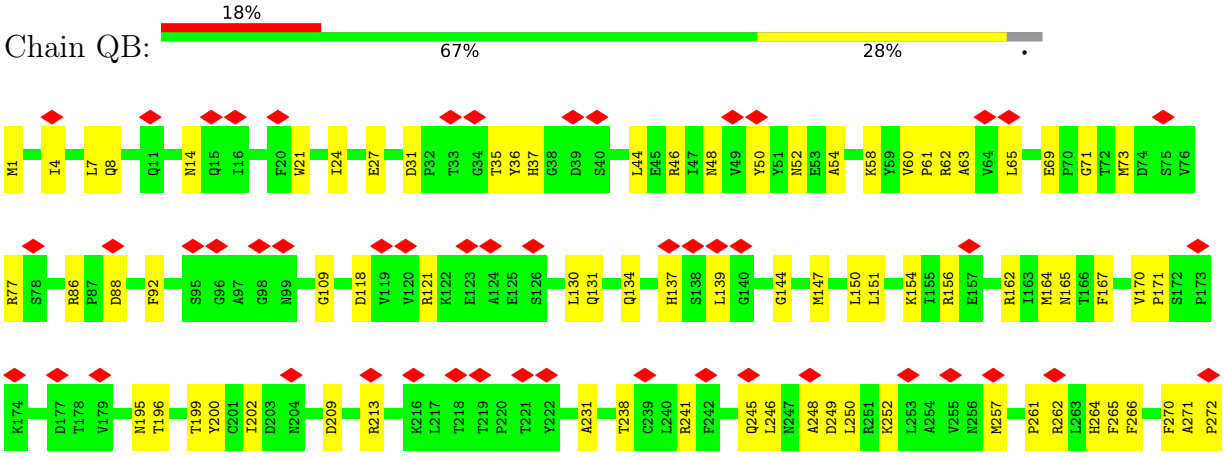
• Molecule 9: Tubulin beta-4B chain

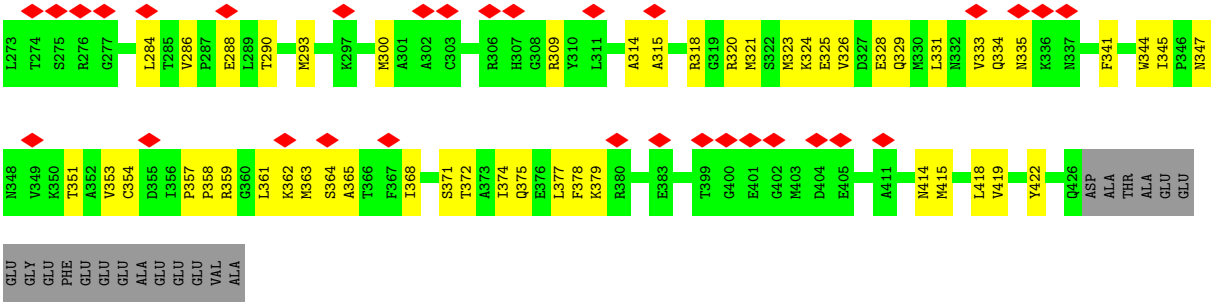
Chain PP:



• Molecule 9: Tubulin beta-4B chain

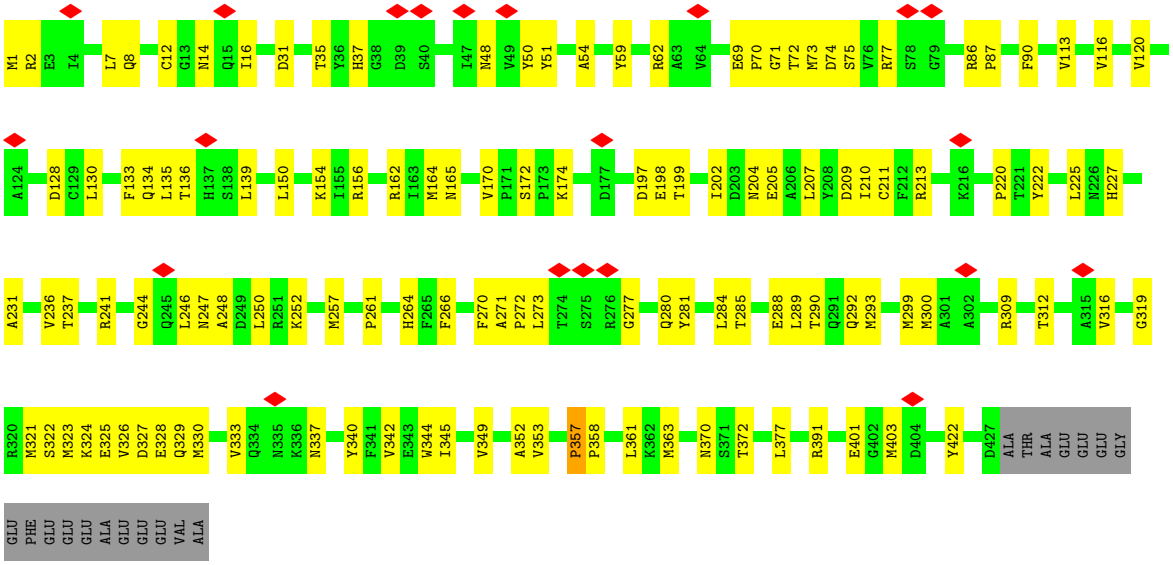
Chain QB:





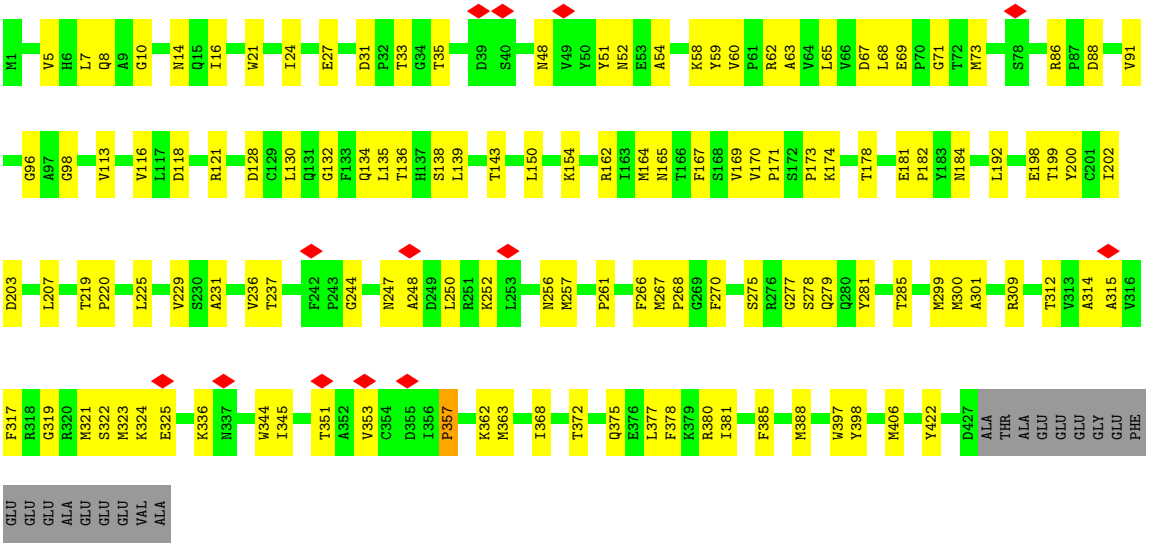
• Molecule 9: Tubulin beta-4B chain

Chain QD:



• Molecule 9: Tubulin beta-4B chain

Chain QF:



• Molecule 9: Tubulin beta-4B chain

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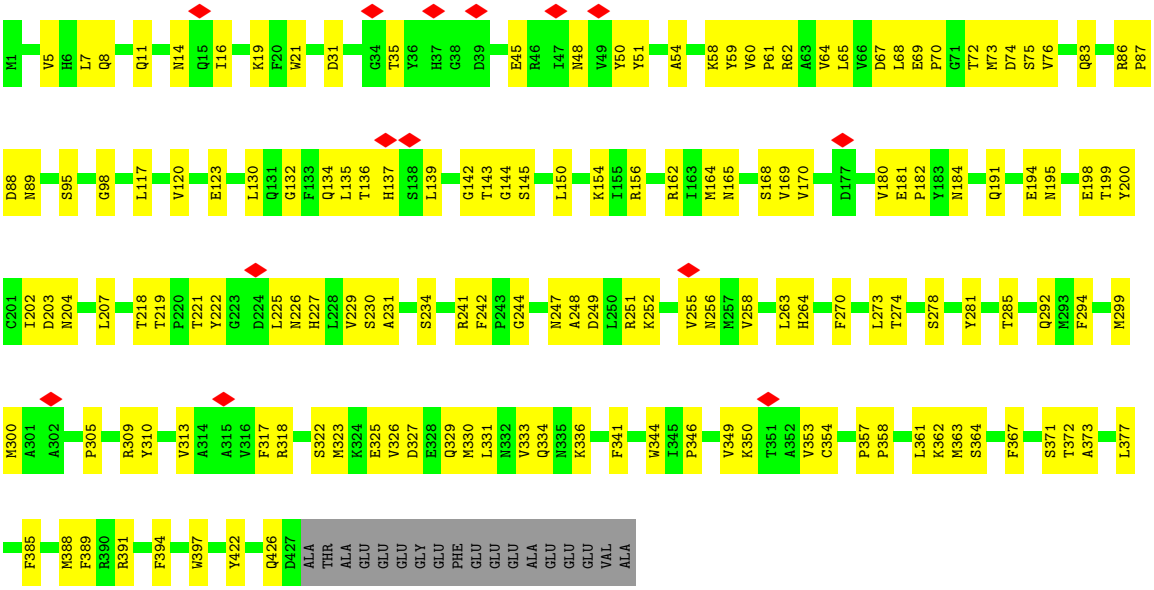

• Molecule 9: Tubulin beta-4B chain

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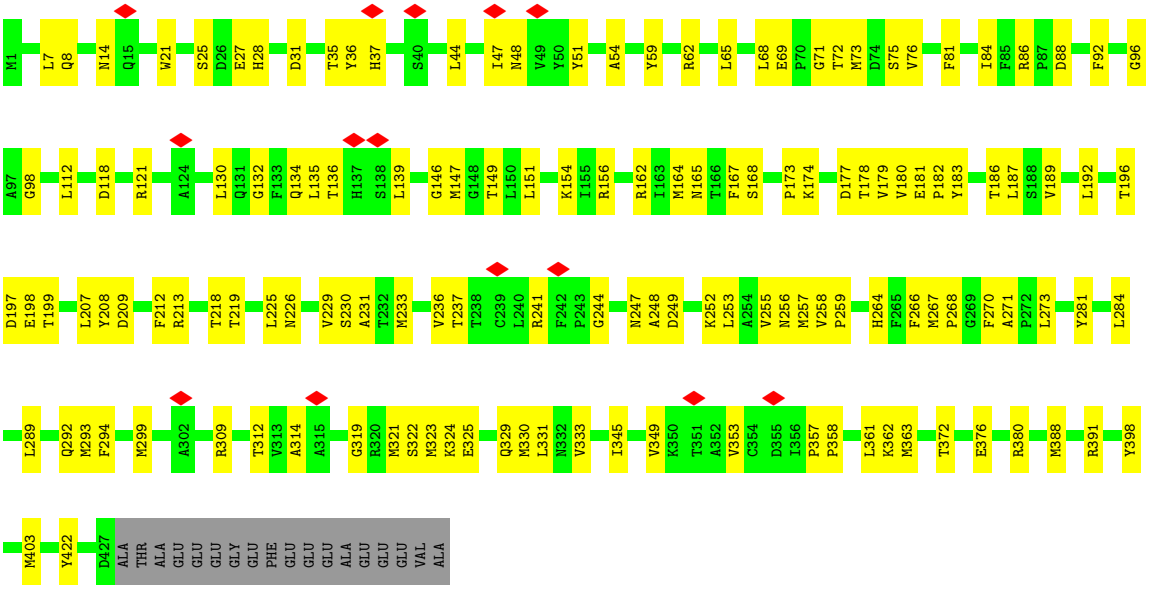

• Molecule 9: Tubulin beta-4B chain

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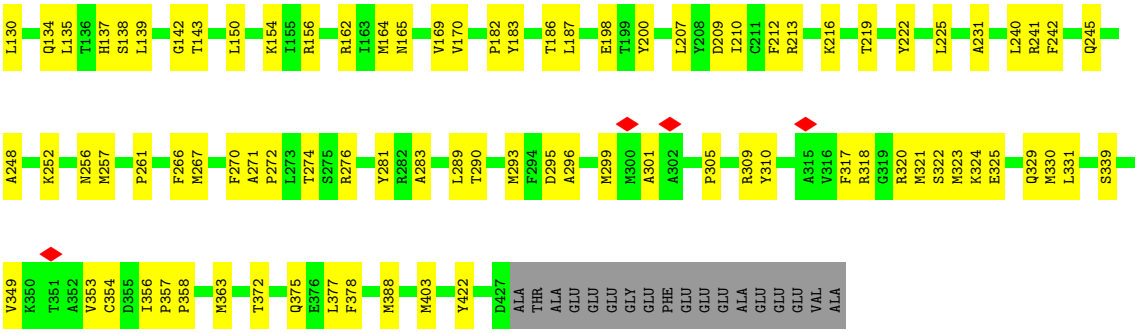

• Molecule 9: Tubulin beta-4B chain

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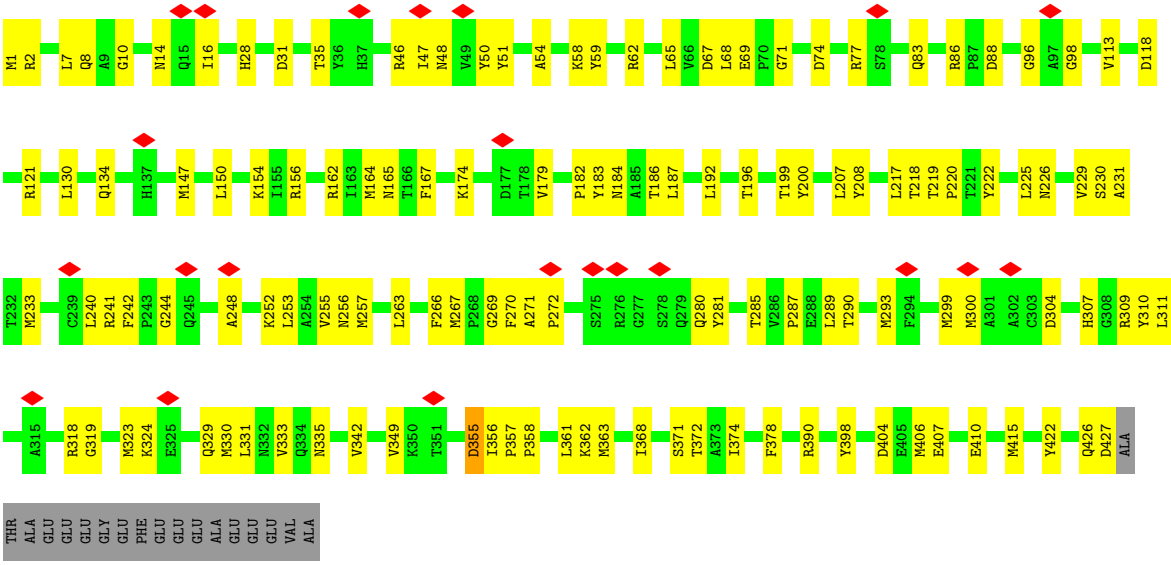

• Molecule 9: Tubulin beta-4B chain

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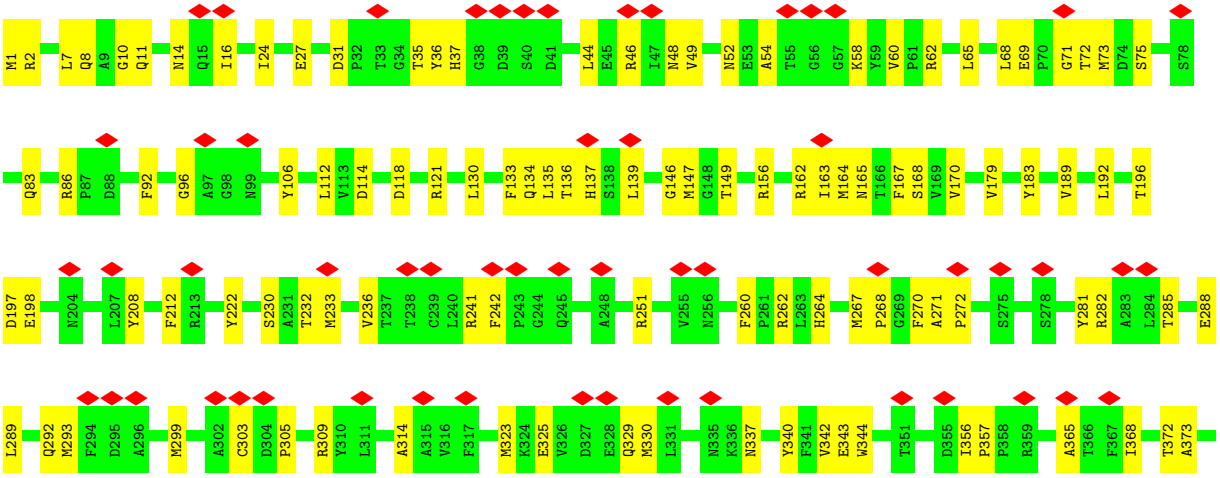

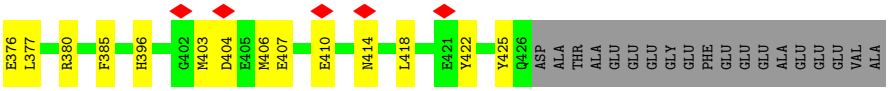

• Molecule 9: Tubulin beta-4B chain

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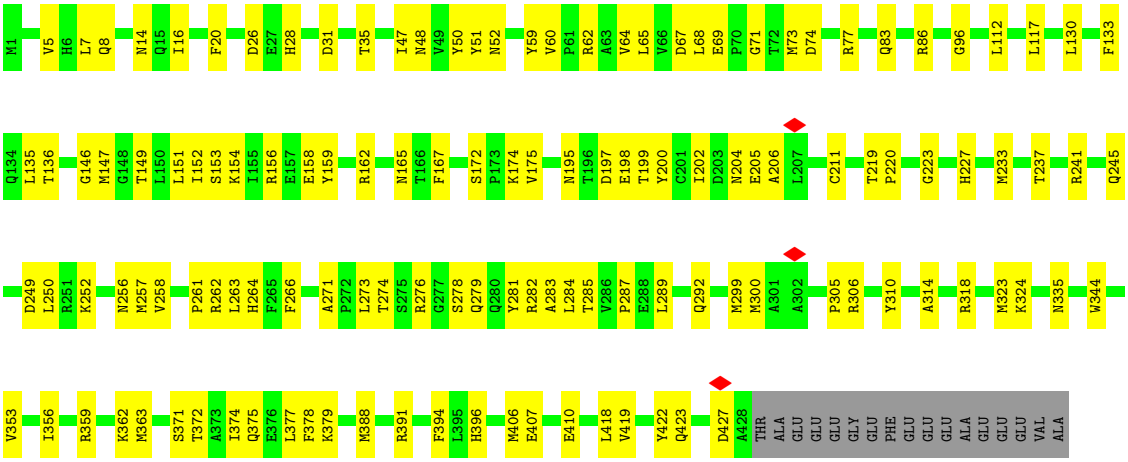

• Molecule 9: Tubulin beta-4B chain

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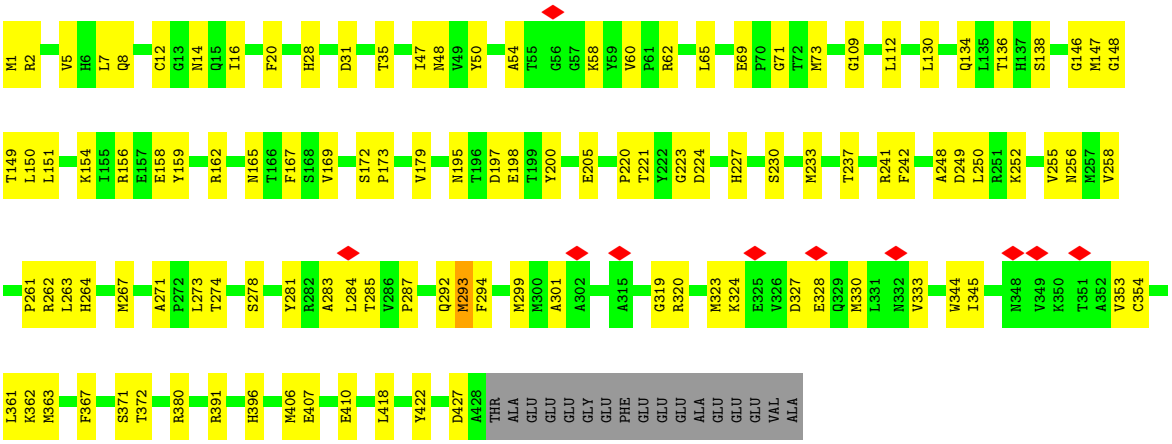

• Molecule 9: Tubulin beta-4B chain

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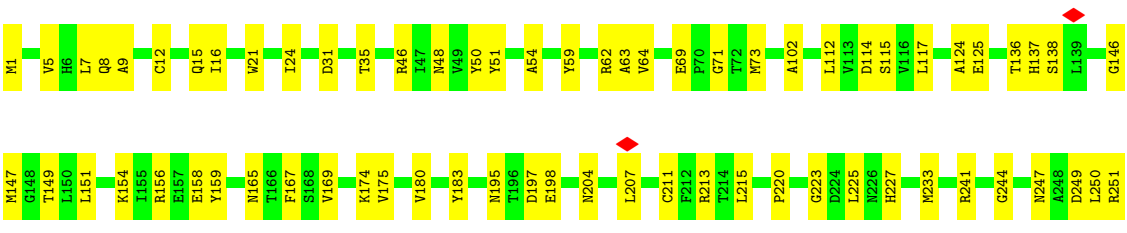
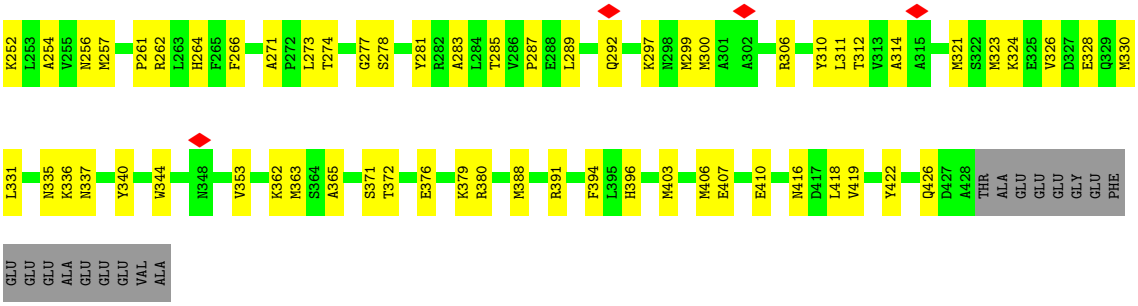
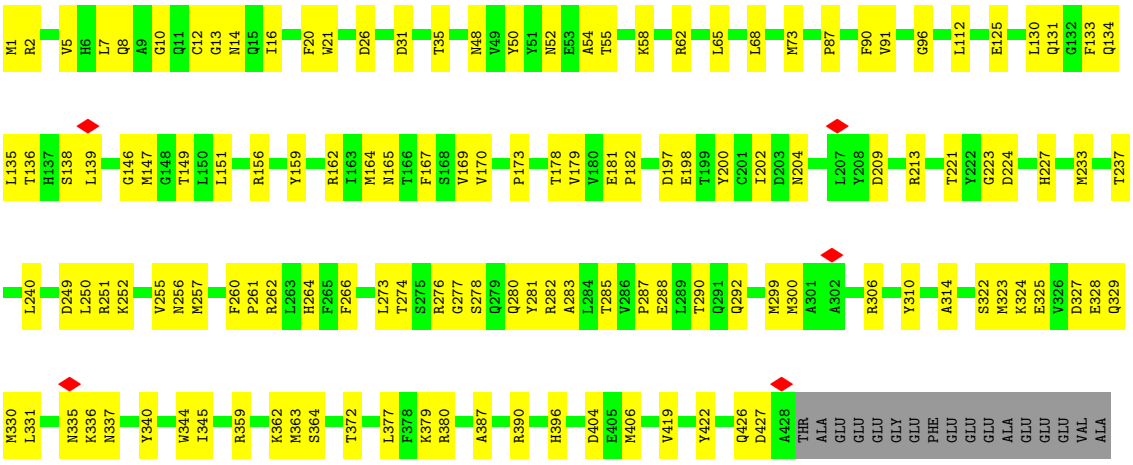




• Molecule 9: Tubulin beta-4B chain

Chain RJ:



• Molecule 9: Tubulin beta-4B chain

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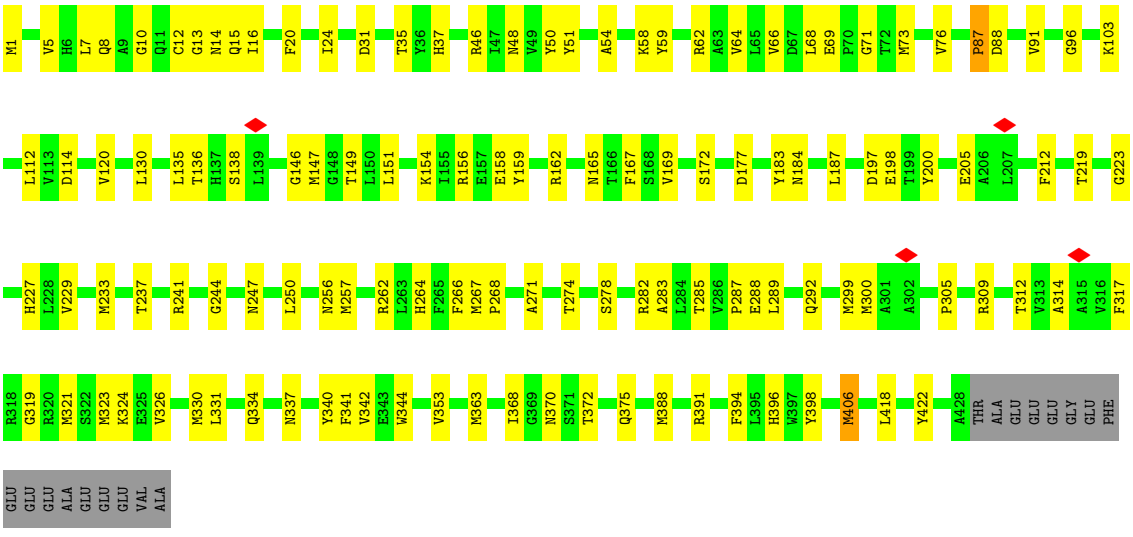
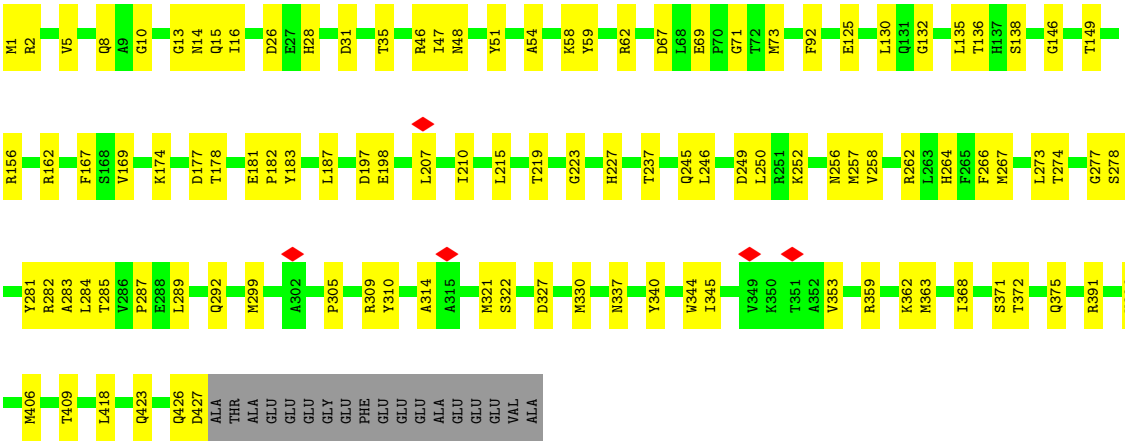


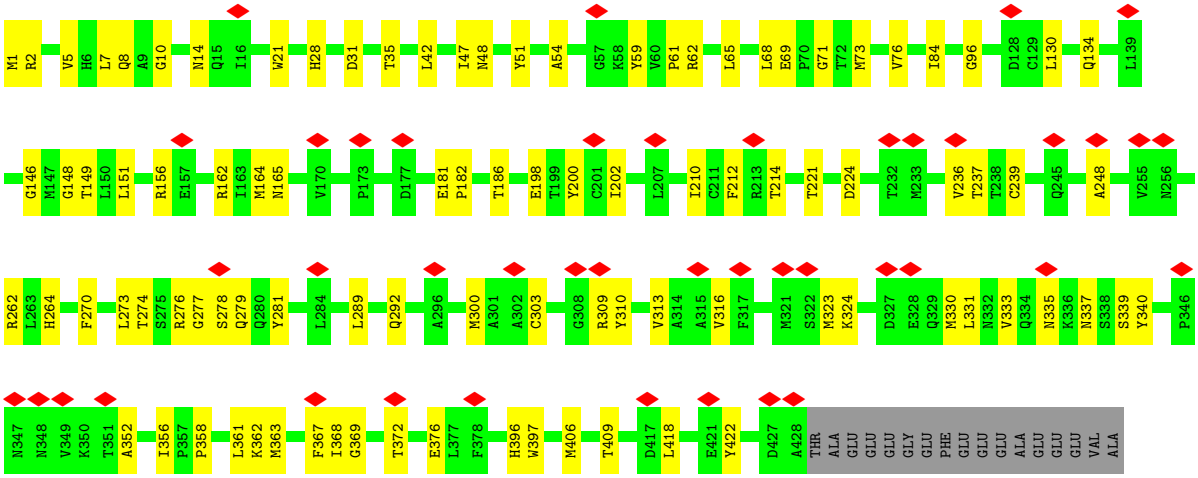
• Molecule 9: Tubulin beta-4B chain

Chain RN:



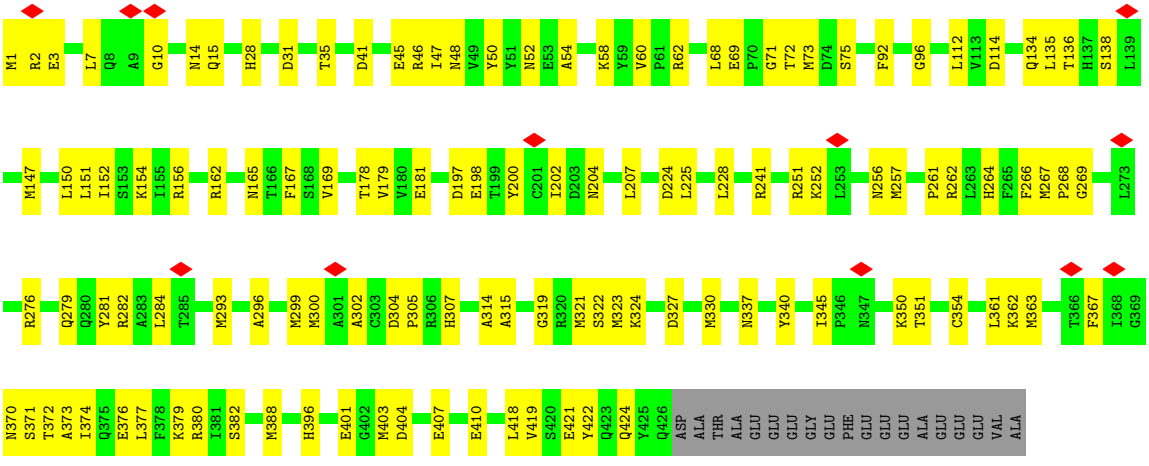
• Molecule 9: Tubulin beta-4B chain

Chain RP:



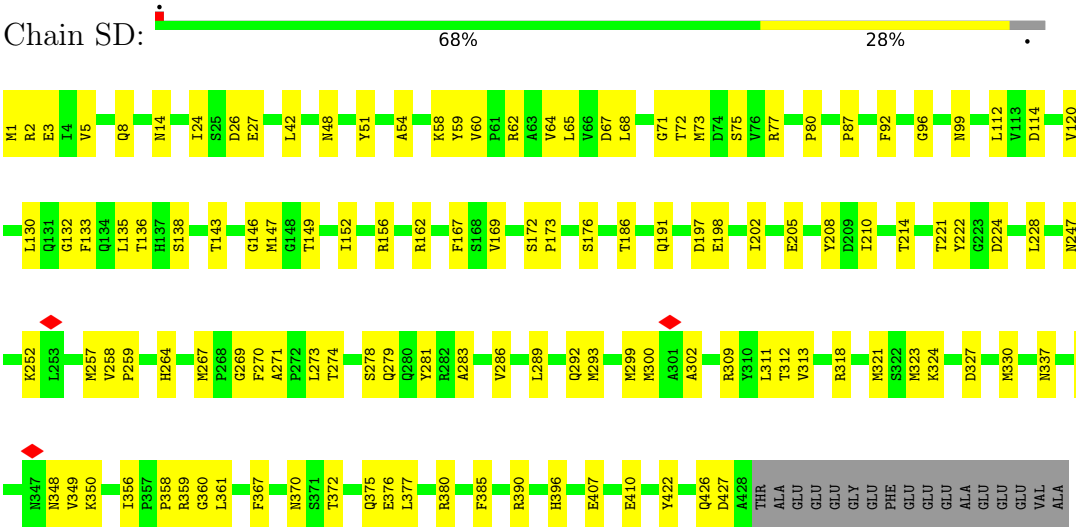
• Molecule 9: Tubulin beta-4B chain

Chain SB:



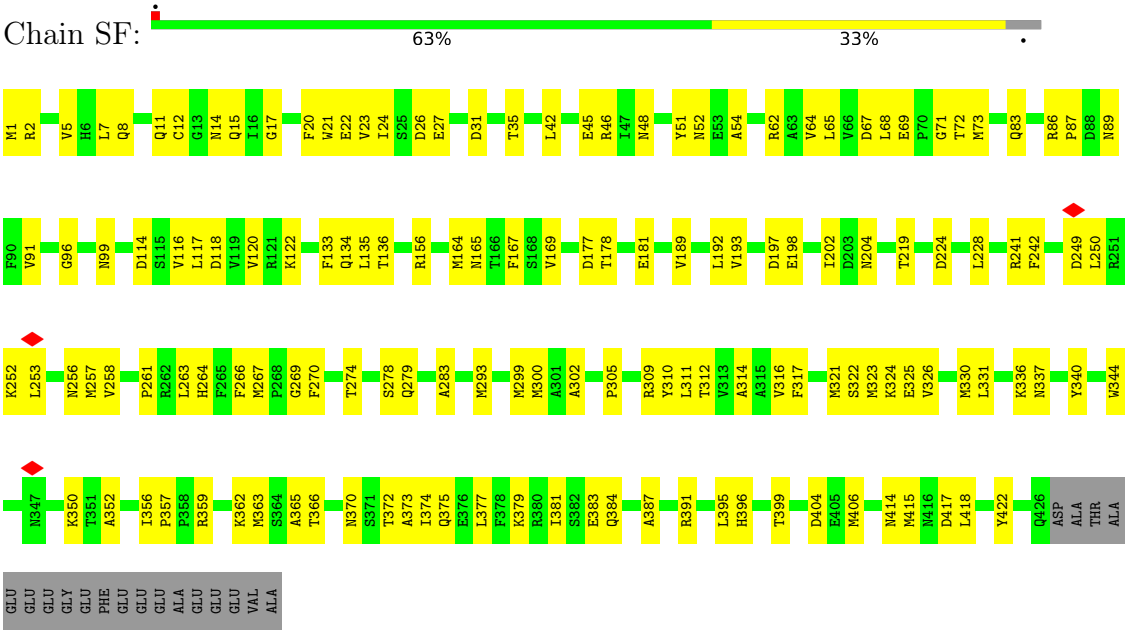
• Molecule 9: Tubulin beta-4B chain

Chain SD:



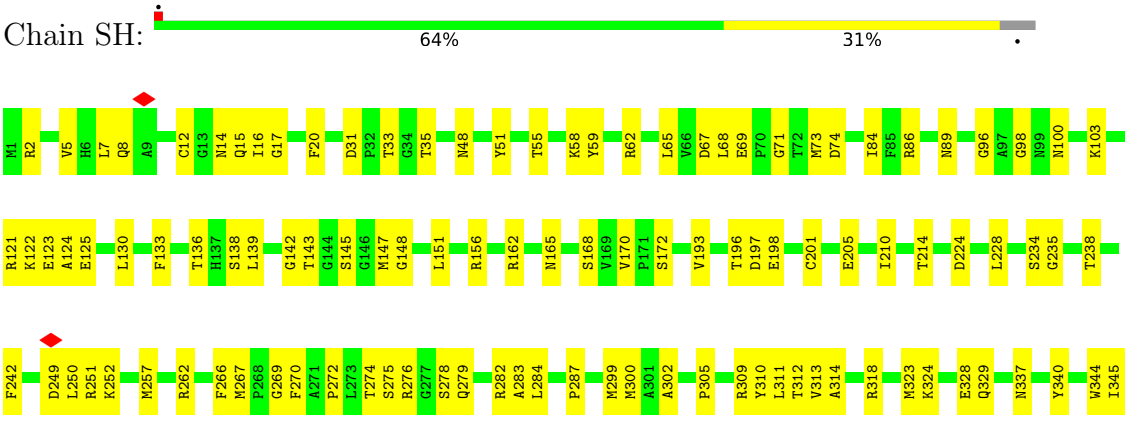
• Molecule 9: Tubulin beta-4B chain

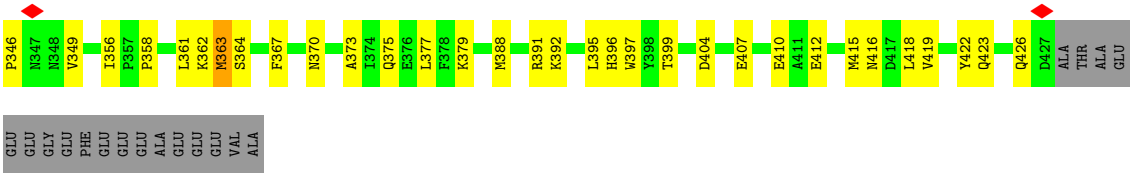
Chain SF:



• Molecule 9: Tubulin beta-4B chain

Chain SH:





• Molecule 9: Tubulin beta-4B chain

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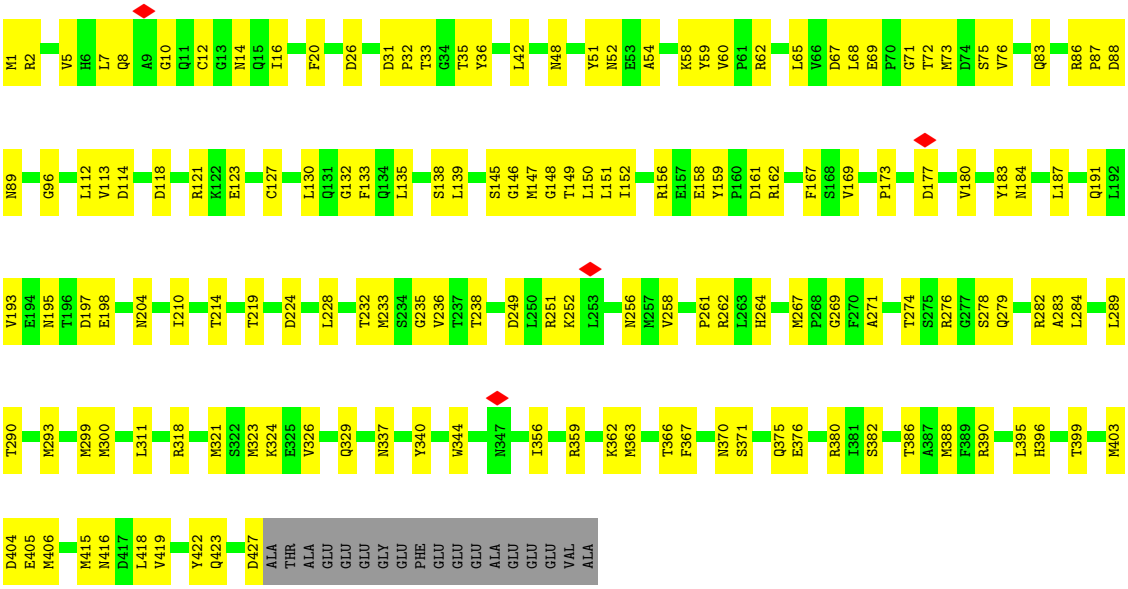

• Molecule 9: Tubulin beta-4B chain

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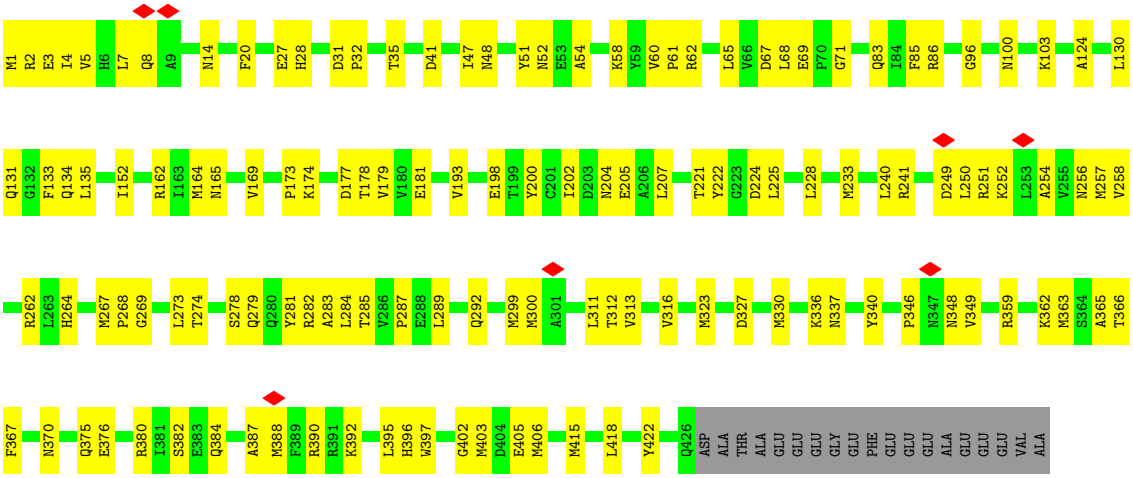
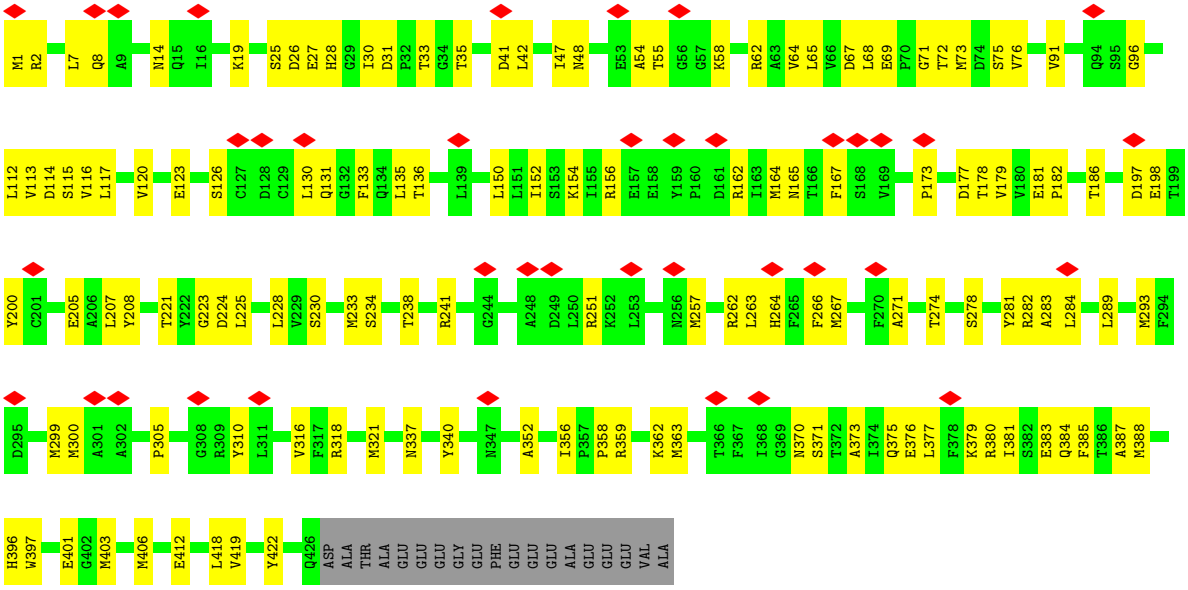


• Molecule 9: Tubulin beta-4B chain

Chain SN:



• Molecule 9: Tubulin beta-4B chain

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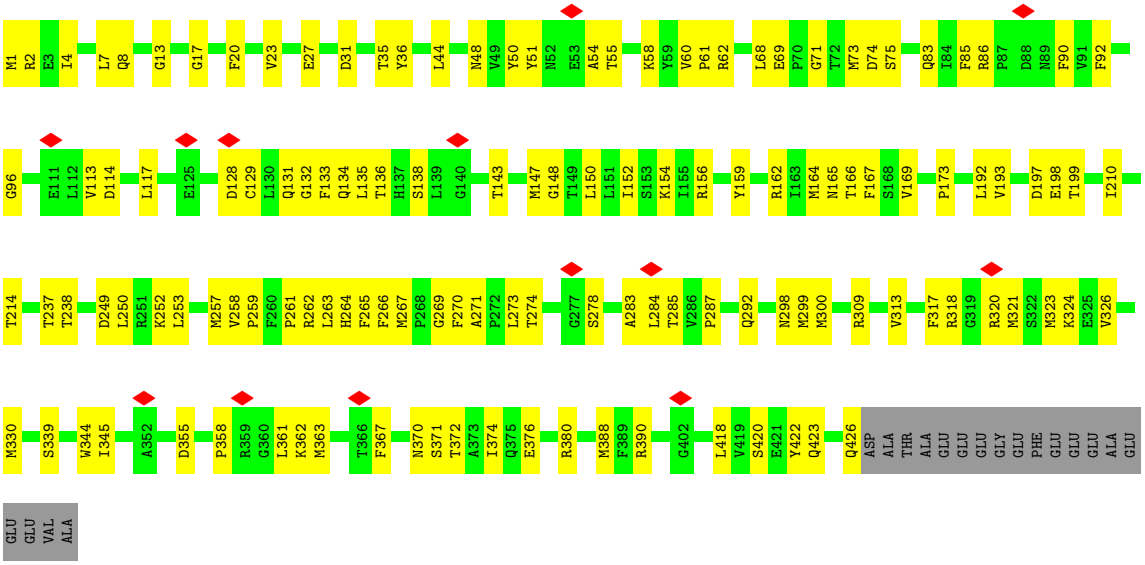
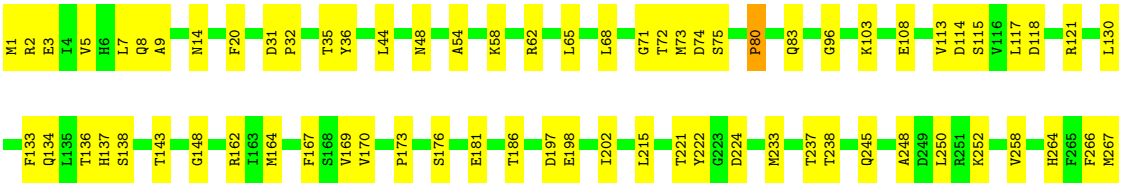
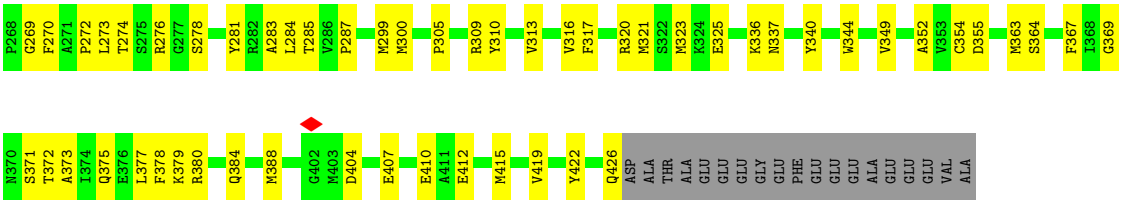


• Molecule 9: Tubulin beta-4B chain

Chain TD:





• Molecule 9: Tubulin beta-4B chain

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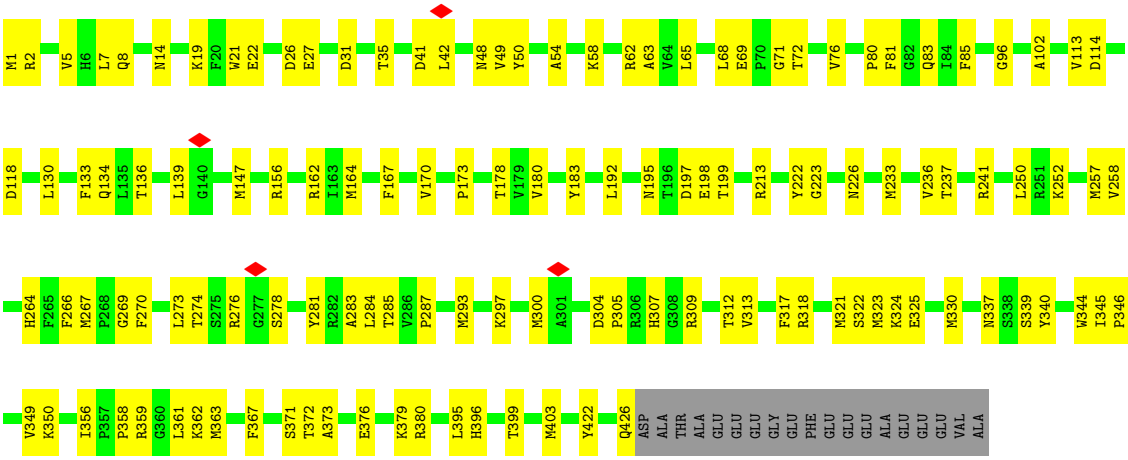
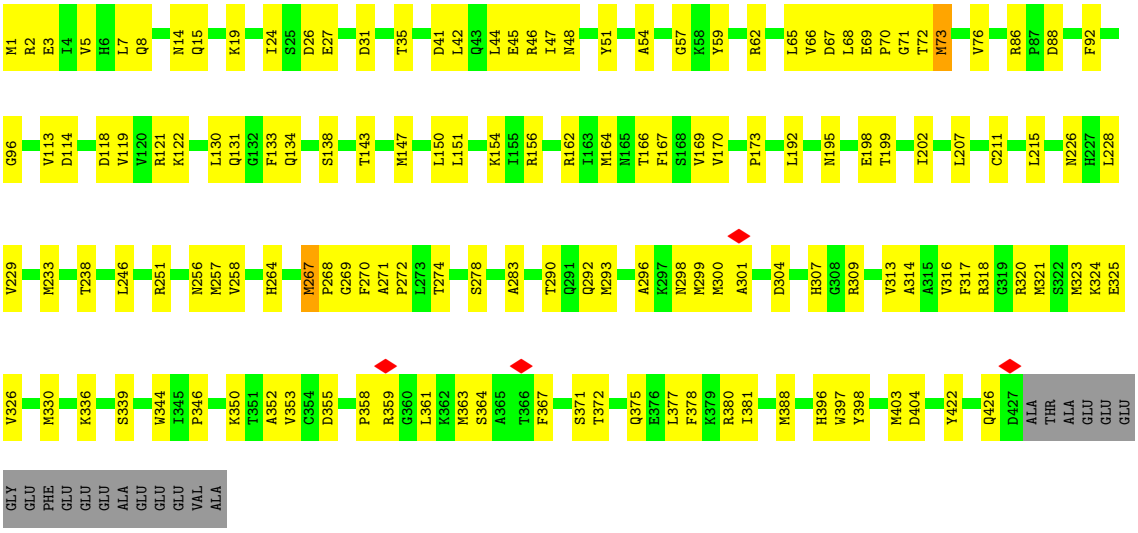


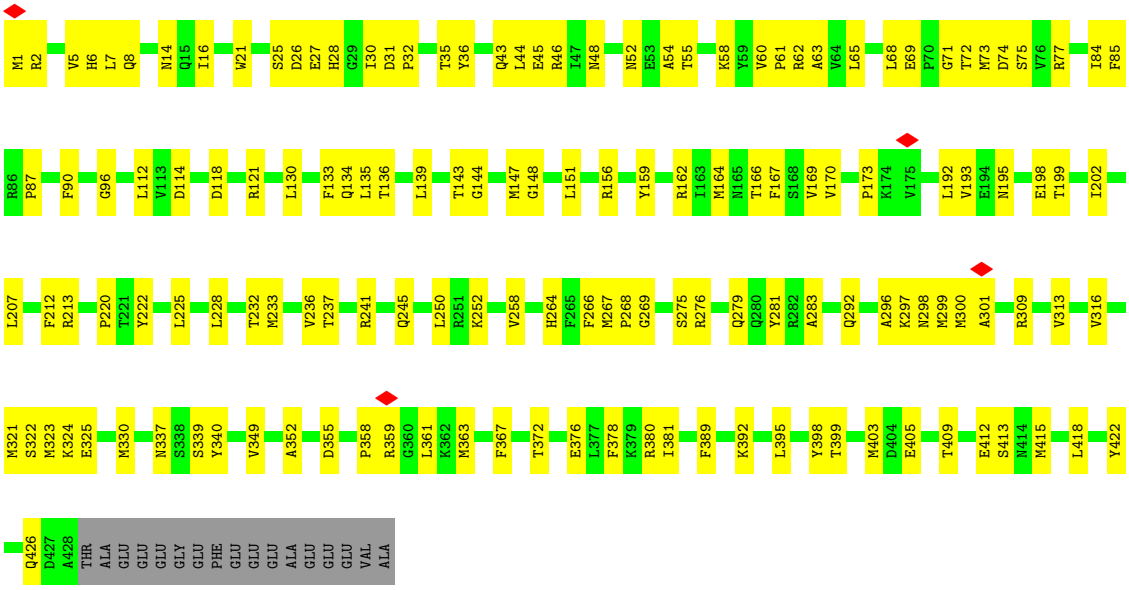
• Molecule 9: Tubulin beta-4B chain

Chain TH:



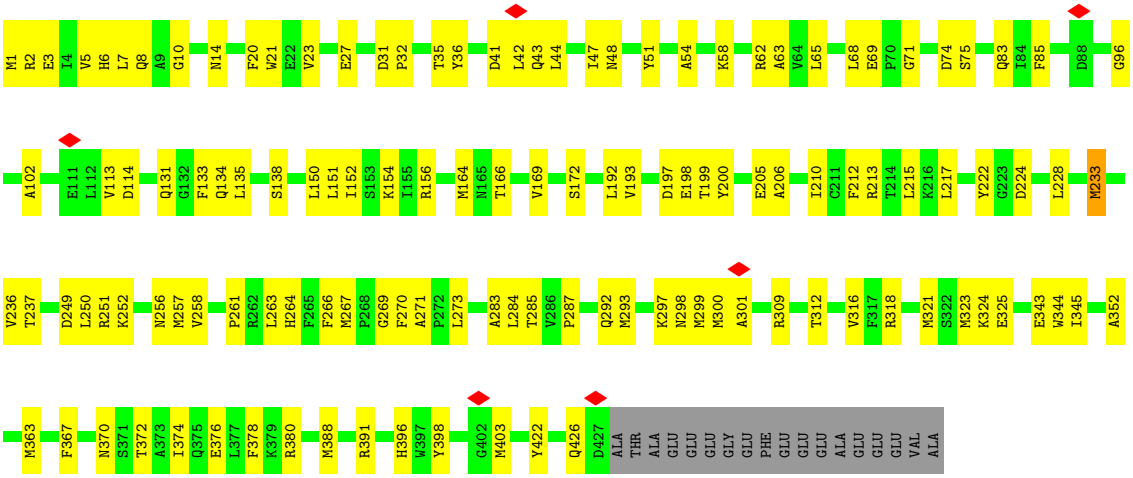
• Molecule 9: Tubulin beta-4B chain

Chain TJ:



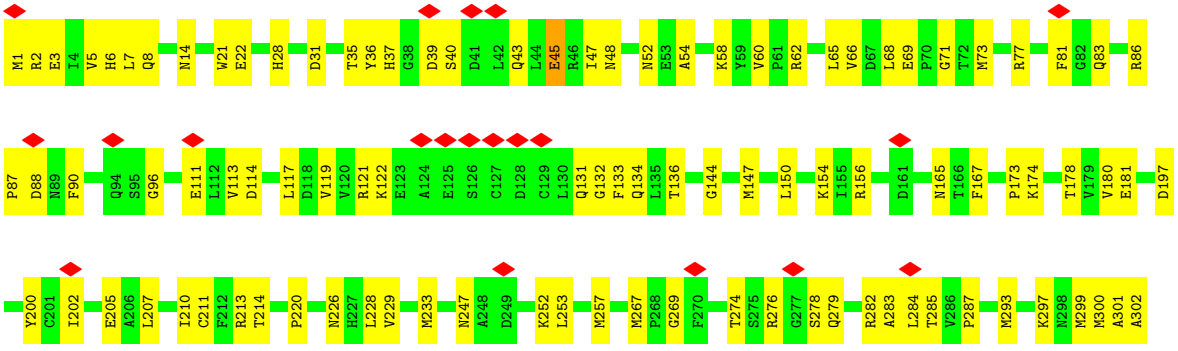
• Molecule 9: Tubulin beta-4B chain

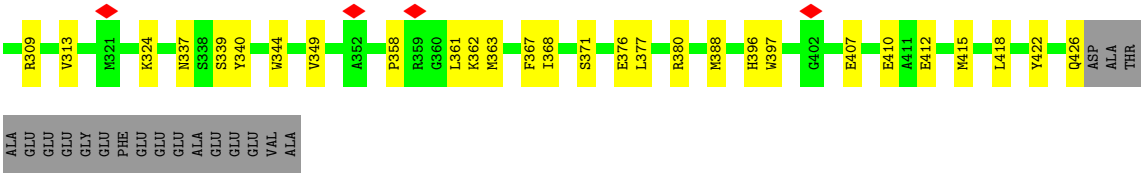
Chain TL:



• Molecule 9: Tubulin beta-4B chain

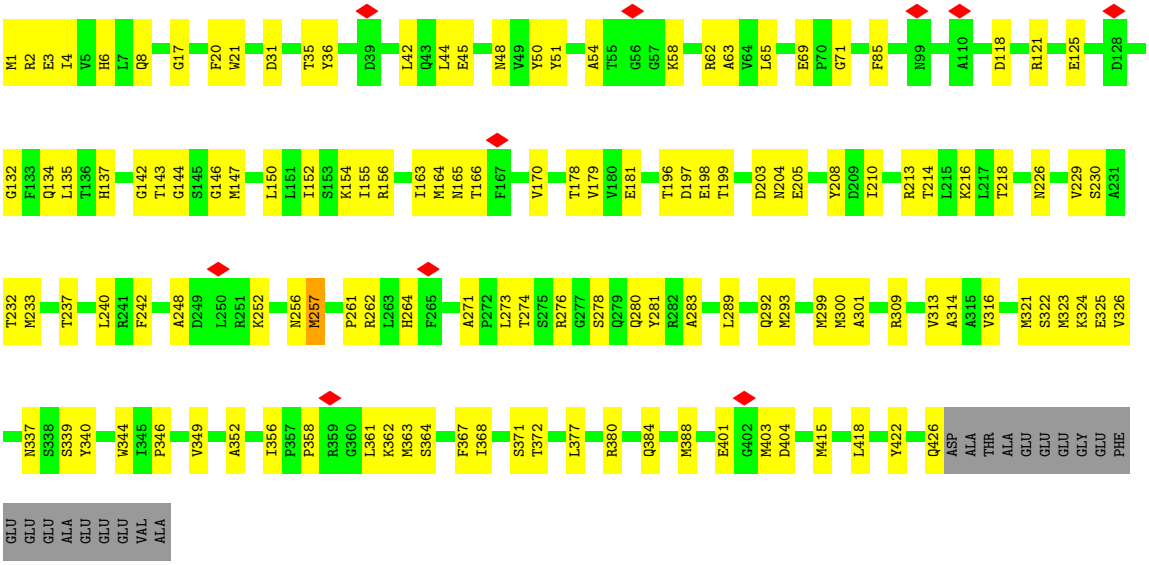
Chain TN:





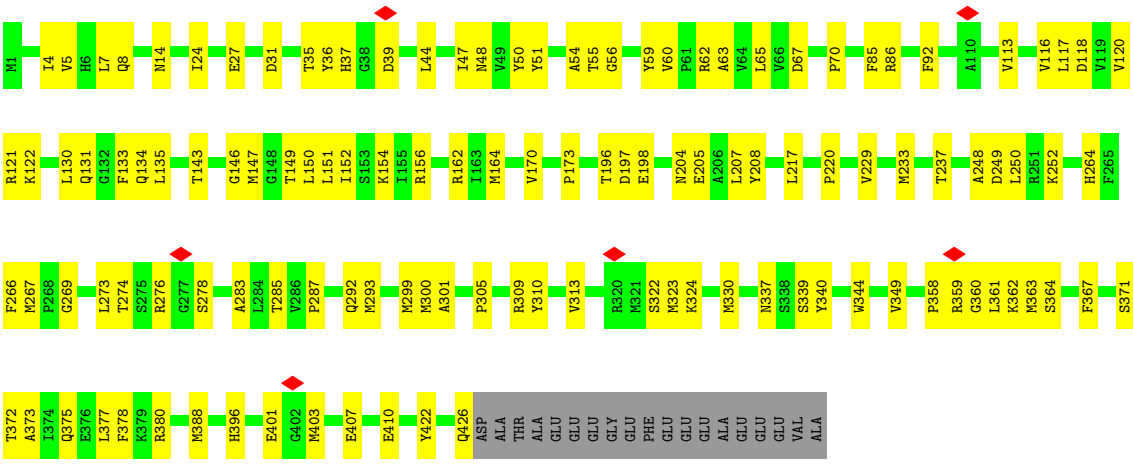
• Molecule 9: Tubulin beta-4B chain

Chain UB:



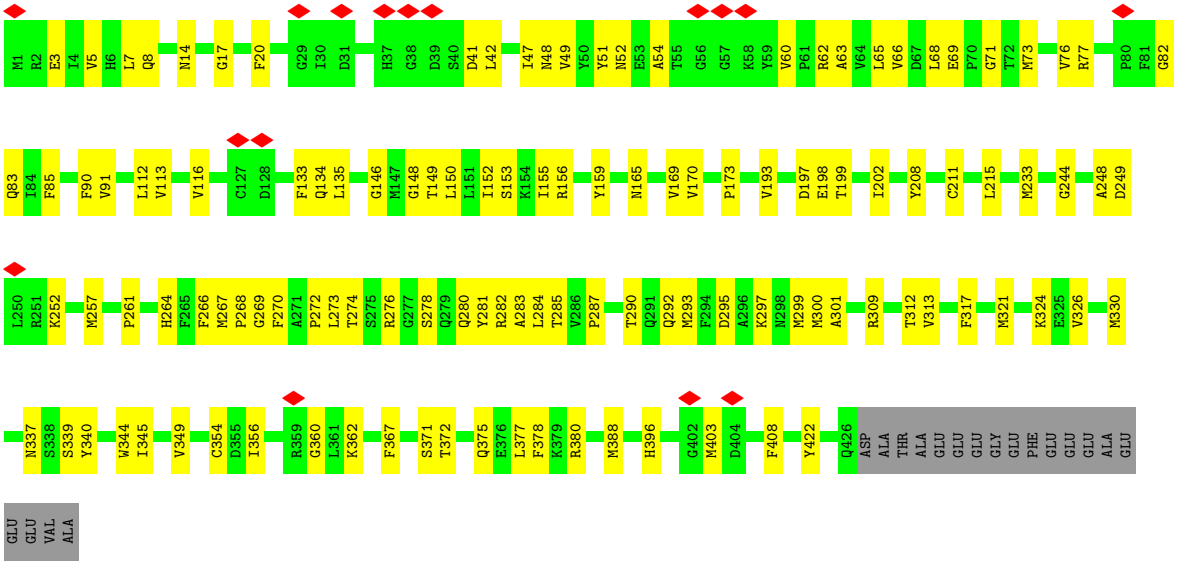
• Molecule 9: Tubulin beta-4B chain

Chain UD:



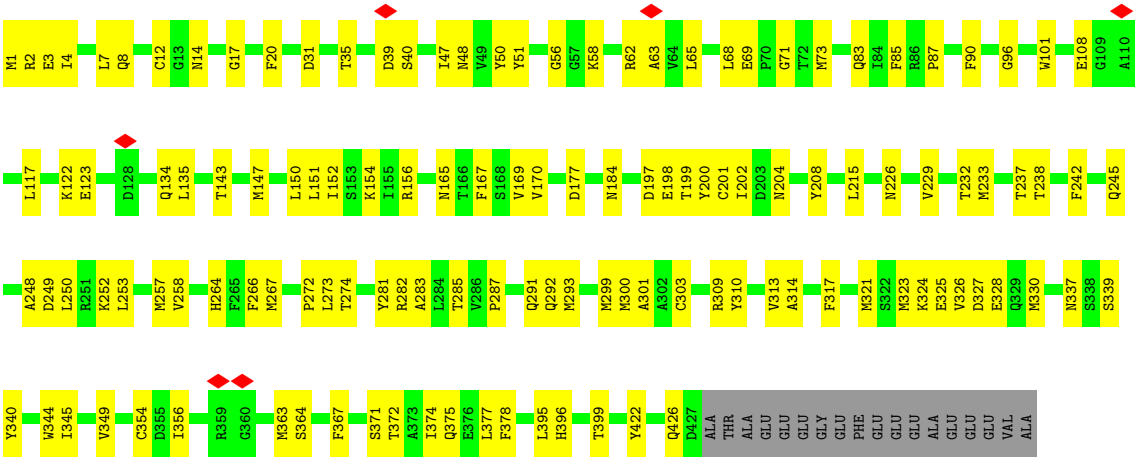
• Molecule 9: Tubulin beta-4B chain

Chain UF:



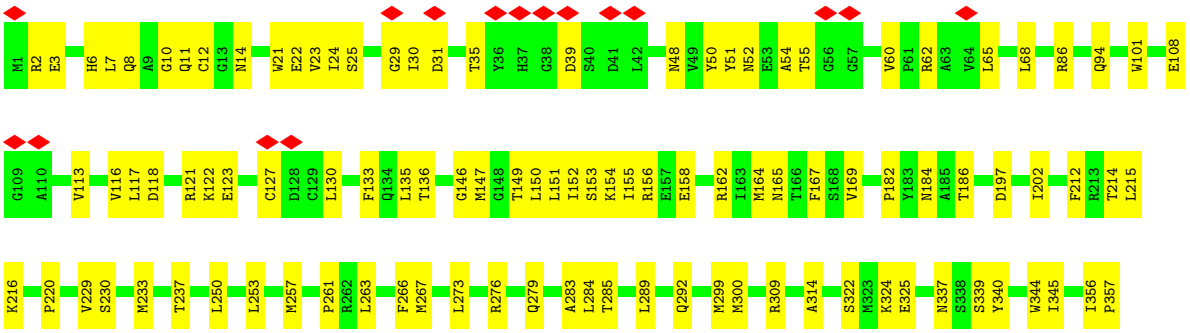
• Molecule 9: Tubulin beta-4B chain

Chain UH:



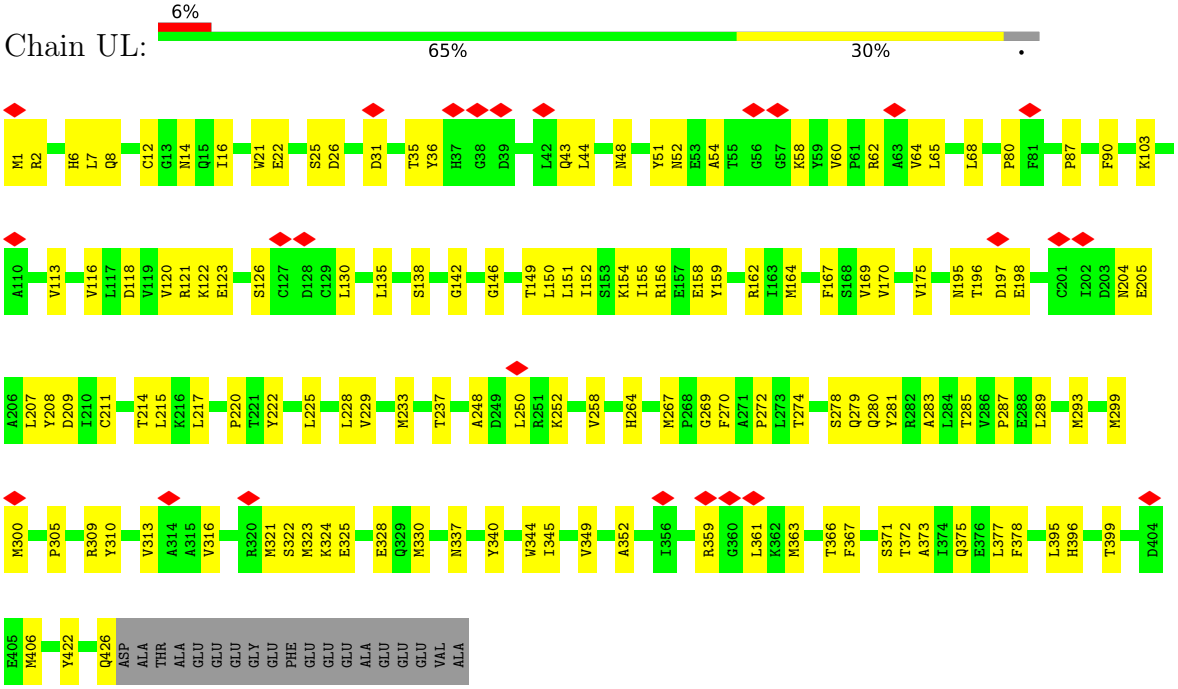
• Molecule 9: Tubulin beta-4B chain

Chain UJ:



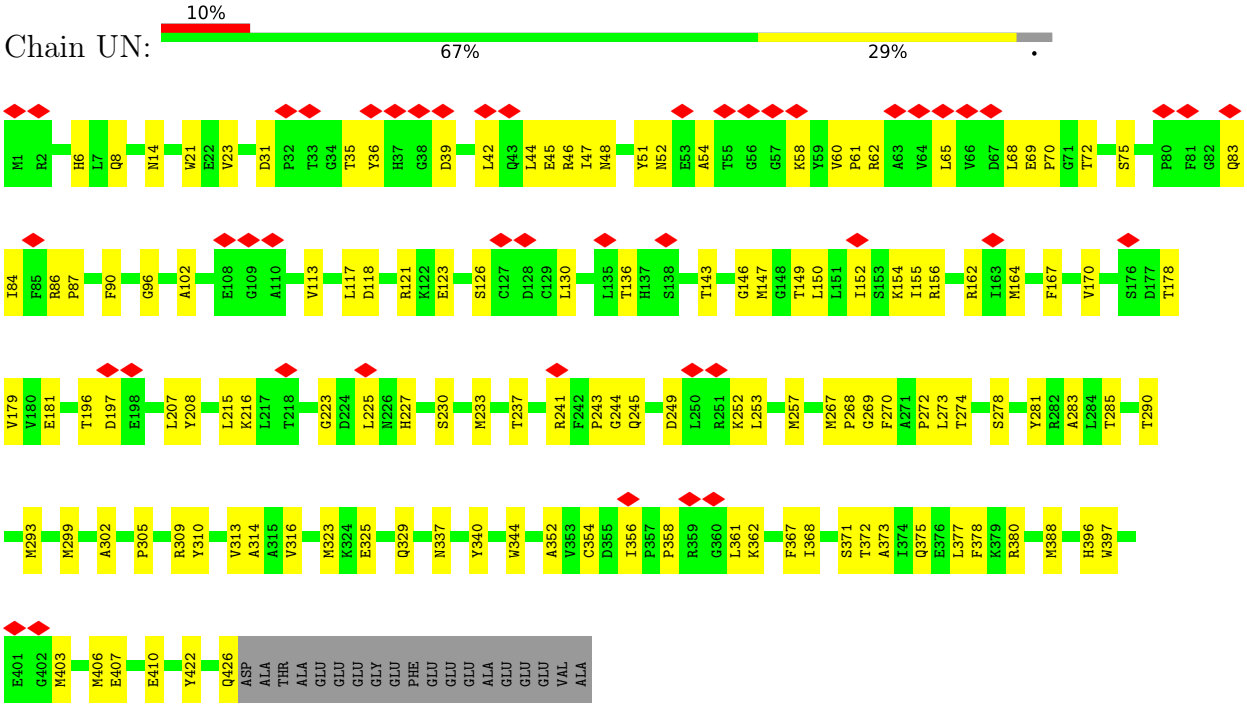
• Molecule 9: Tubulin beta-4B chain

Chain UL:



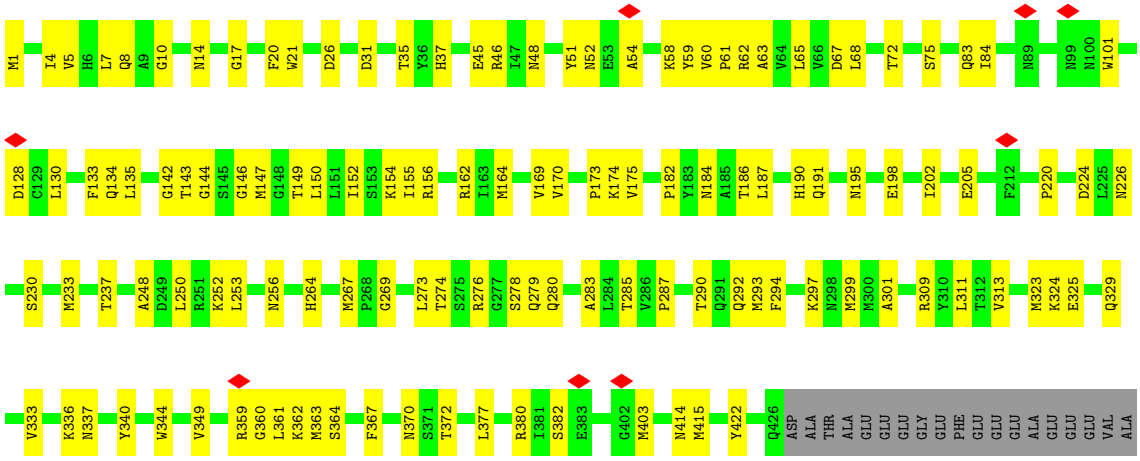
• Molecule 9: Tubulin beta-4B chain

Chain UN:



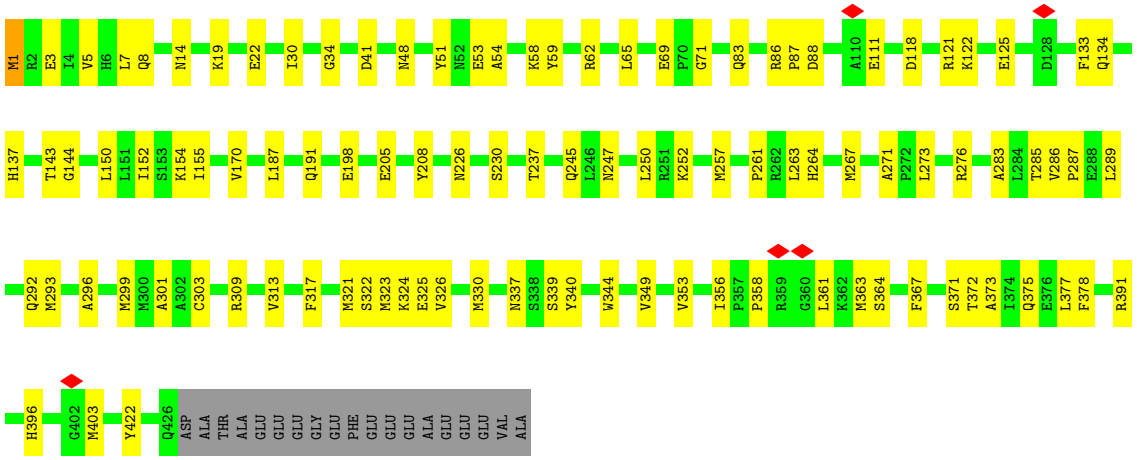
• Molecule 9: Tubulin beta-4B chain

Chain VB:



• Molecule 9: Tubulin beta-4B chain

Chain VD:



• Molecule 9: Tubulin beta-4B chain

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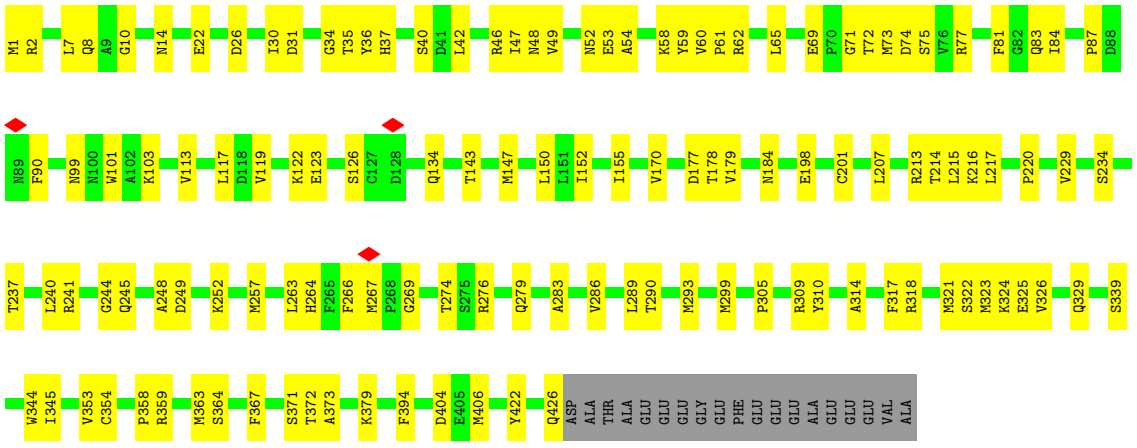
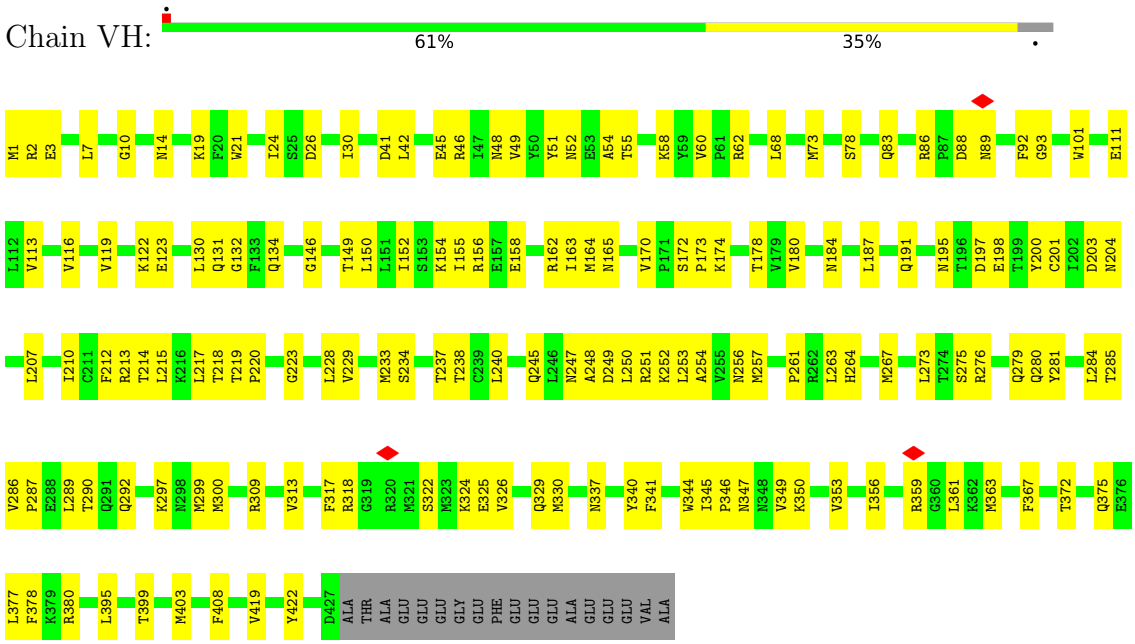


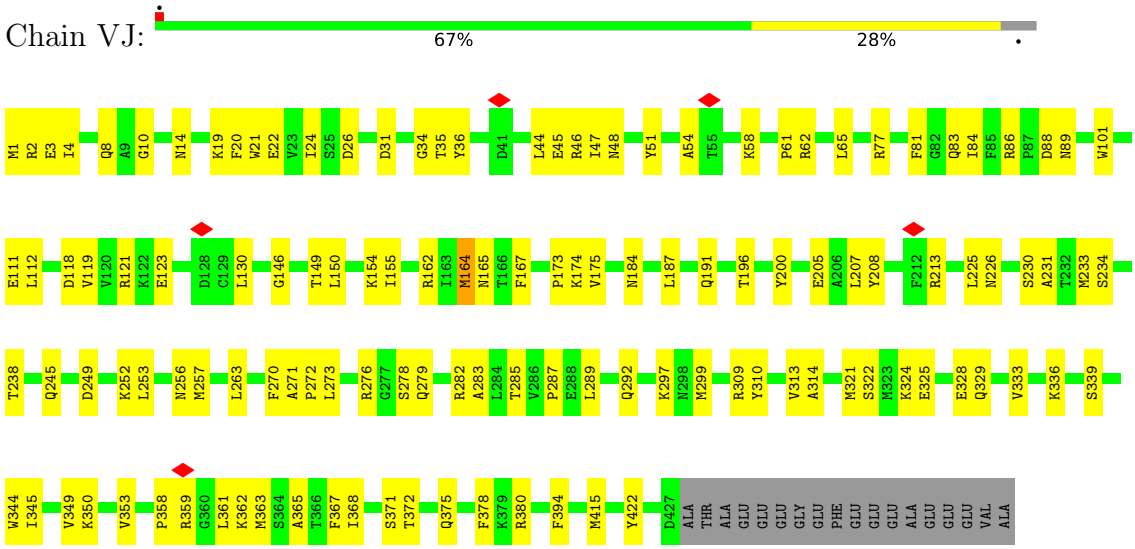
• Molecule 9: Tubulin beta-4B chain

Chain VH:



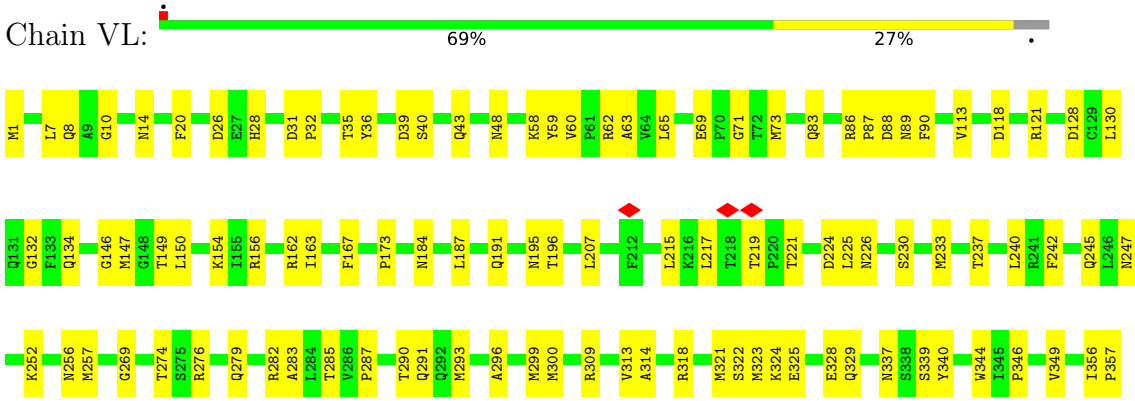
• Molecule 9: Tubulin beta-4B chain

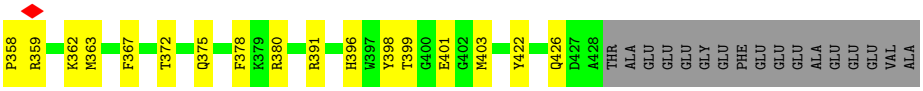
Chain VJ:



• Molecule 9: Tubulin beta-4B chain

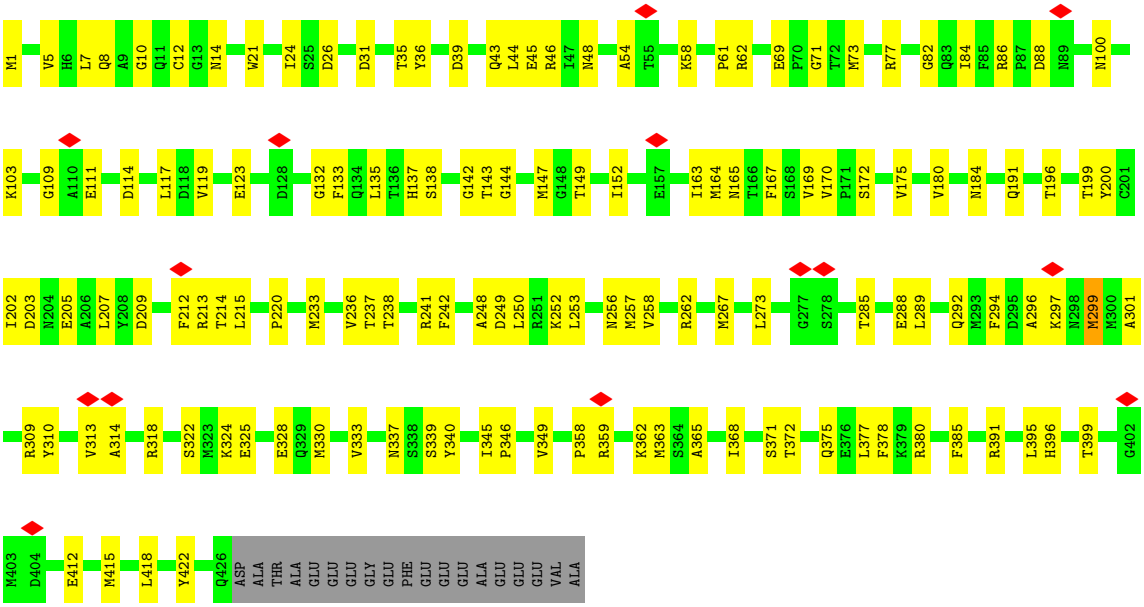
Chain VL:





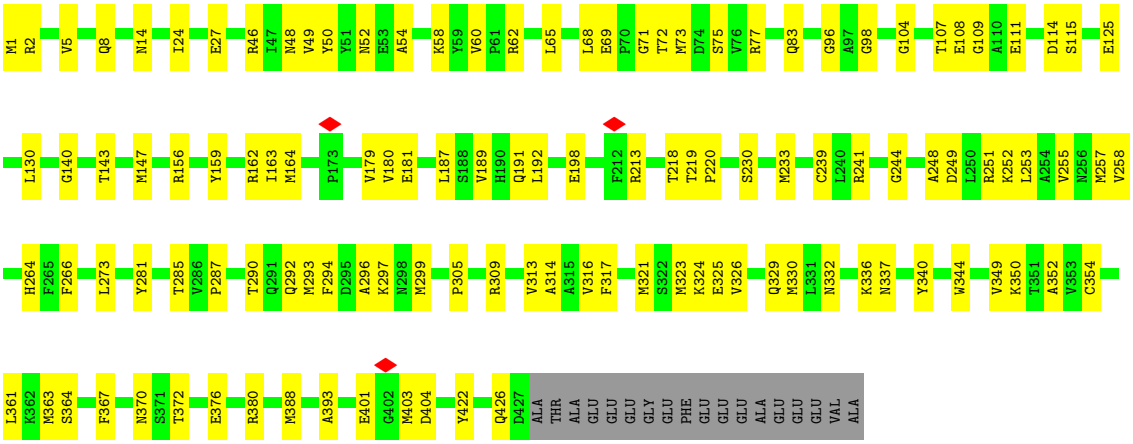
• Molecule 9: Tubulin beta-4B chain

Chain VN:



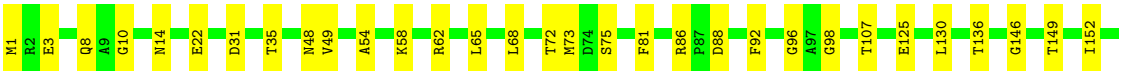
• Molecule 9: Tubulin beta-4B chain

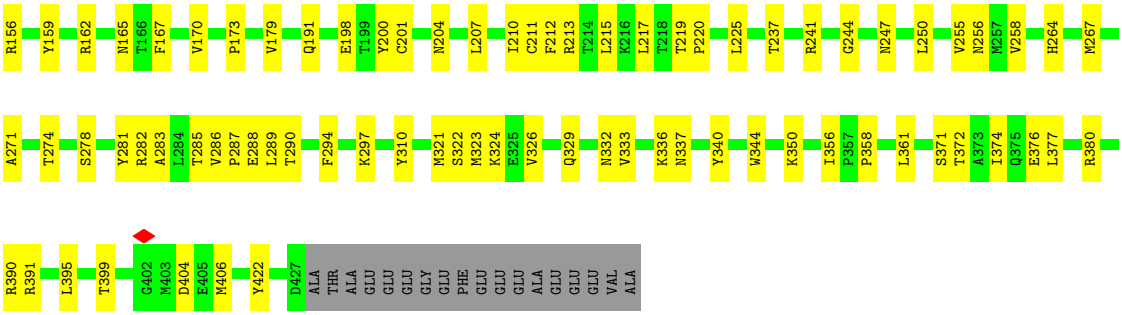
Chain WB:



• Molecule 9: Tubulin beta-4B chain

Chain WD:





• Molecule 9: Tubulin beta-4B chain

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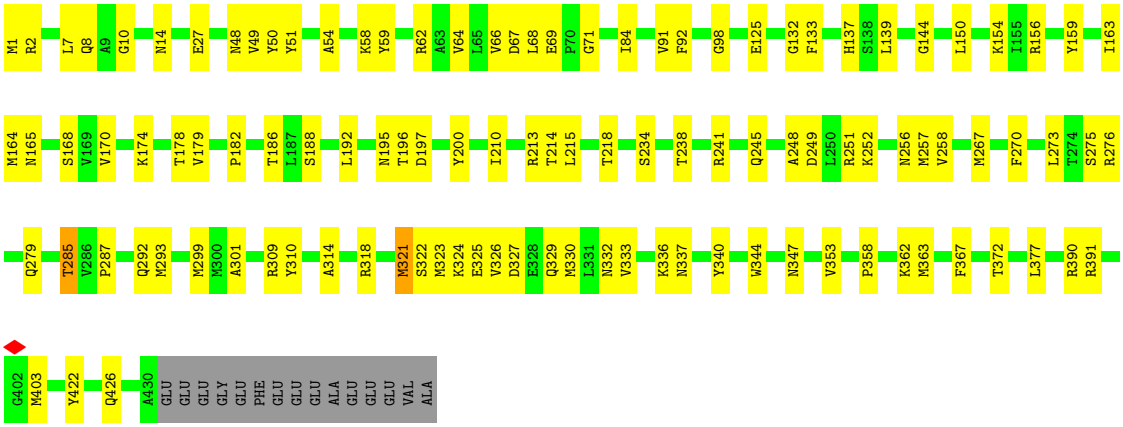

• Molecule 9: Tubulin beta-4B chain

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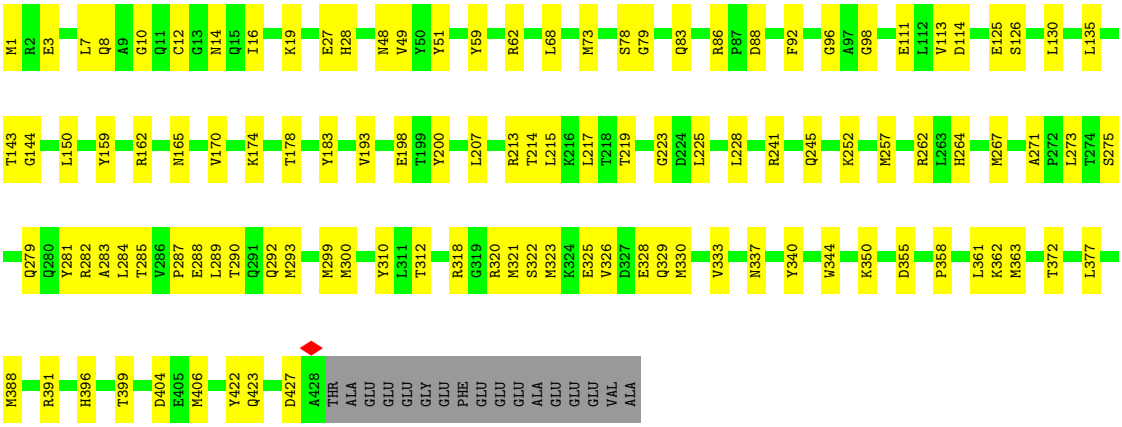

• Molecule 9: Tubulin beta-4B chain

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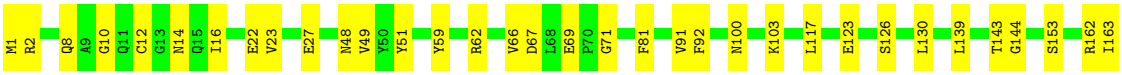

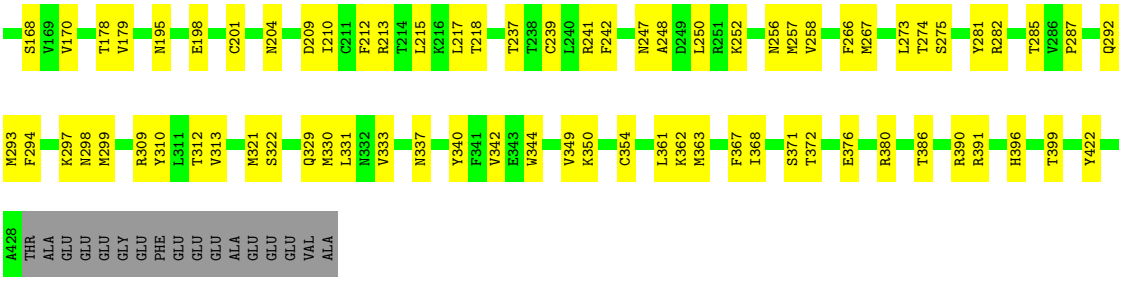

• Molecule 9: Tubulin beta-4B chain

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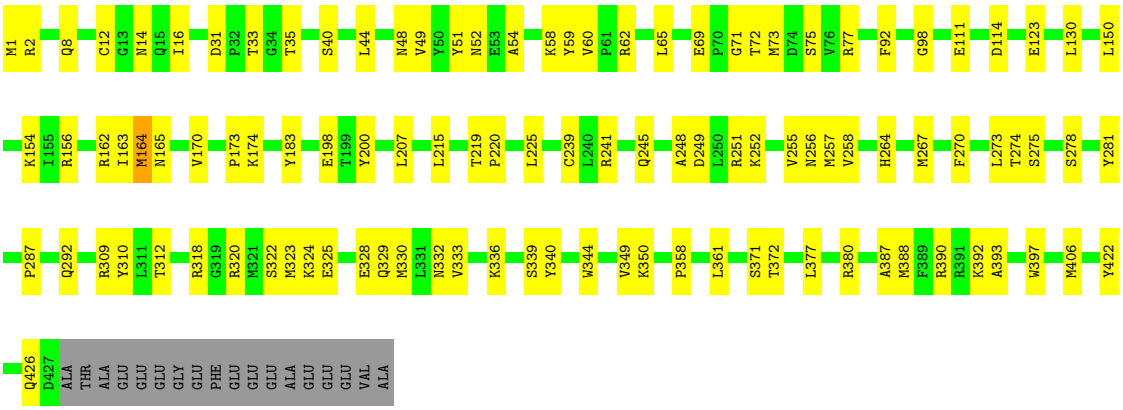

• Molecule 9: Tubulin beta-4B chain

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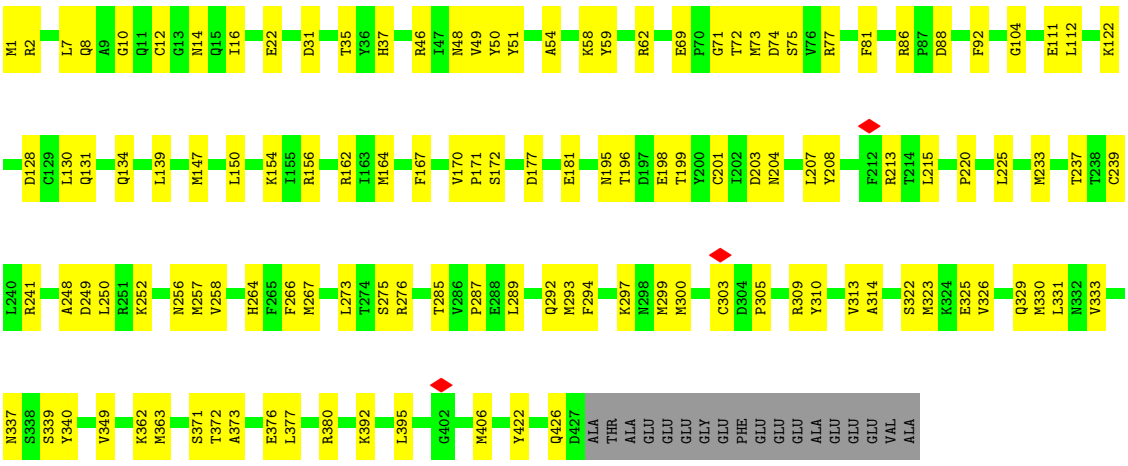

• Molecule 9: Tubulin beta-4B chain

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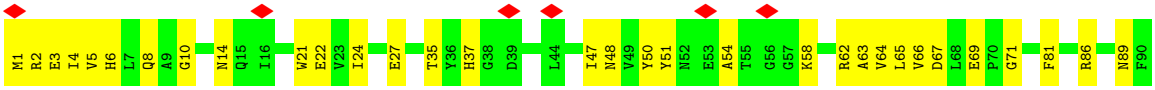
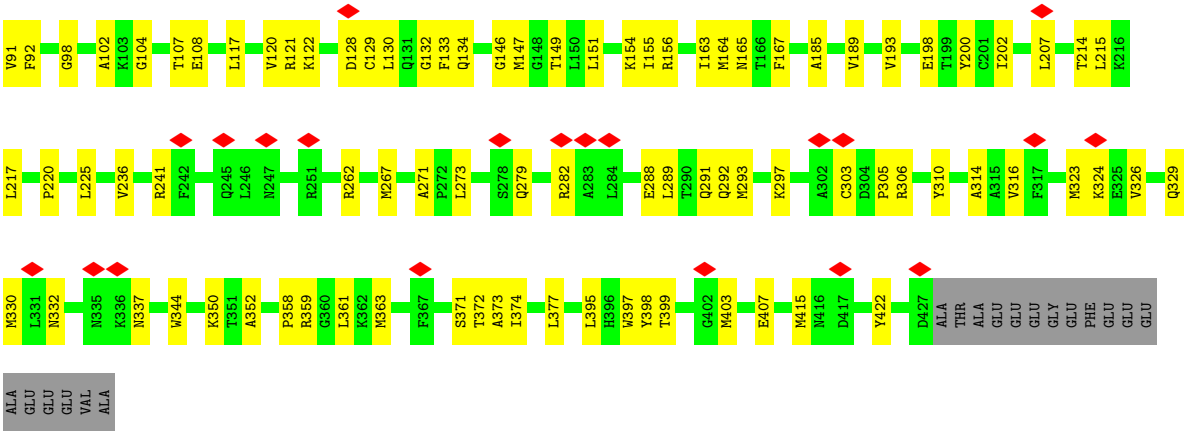
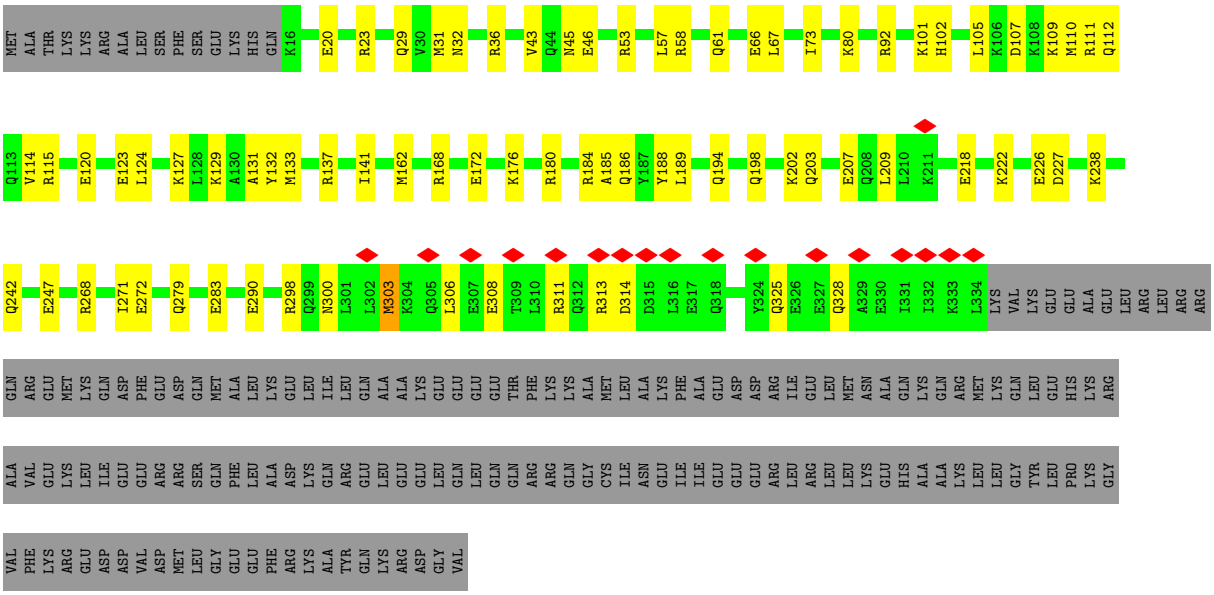




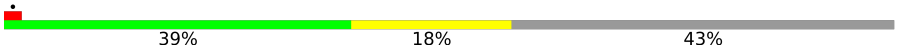
• Molecule 10: Meiosis-specific nuclear structural protein 1

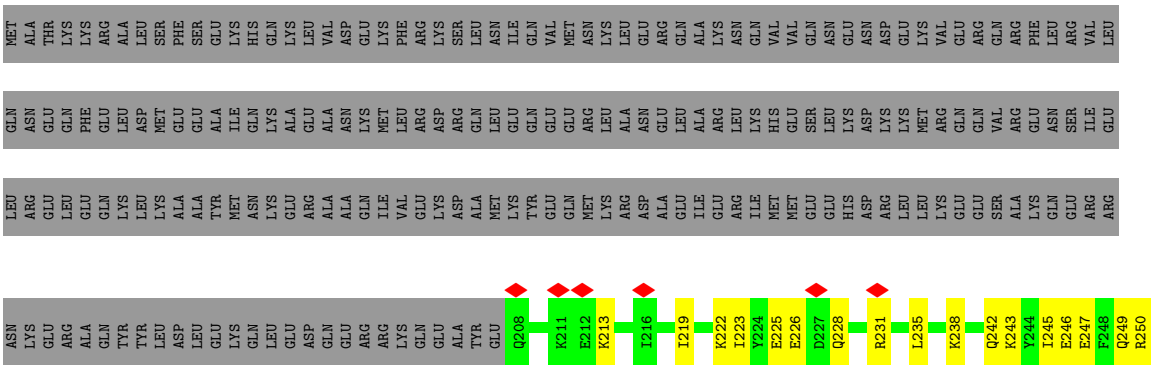
Chain B:

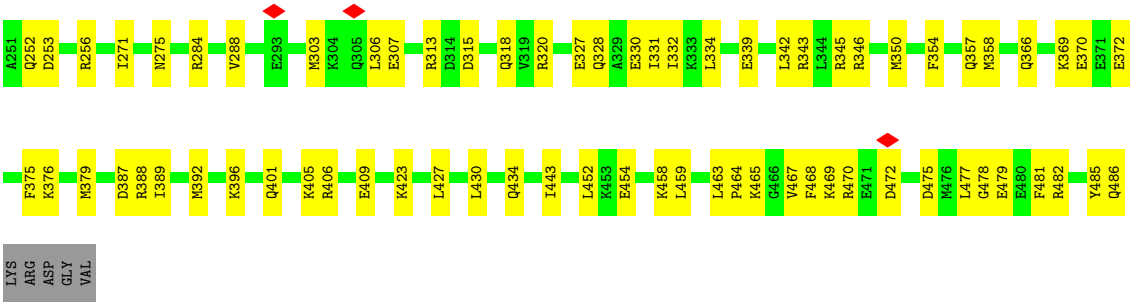


• Molecule 10: Meiosis-specific nuclear structural protein 1

Chain C:

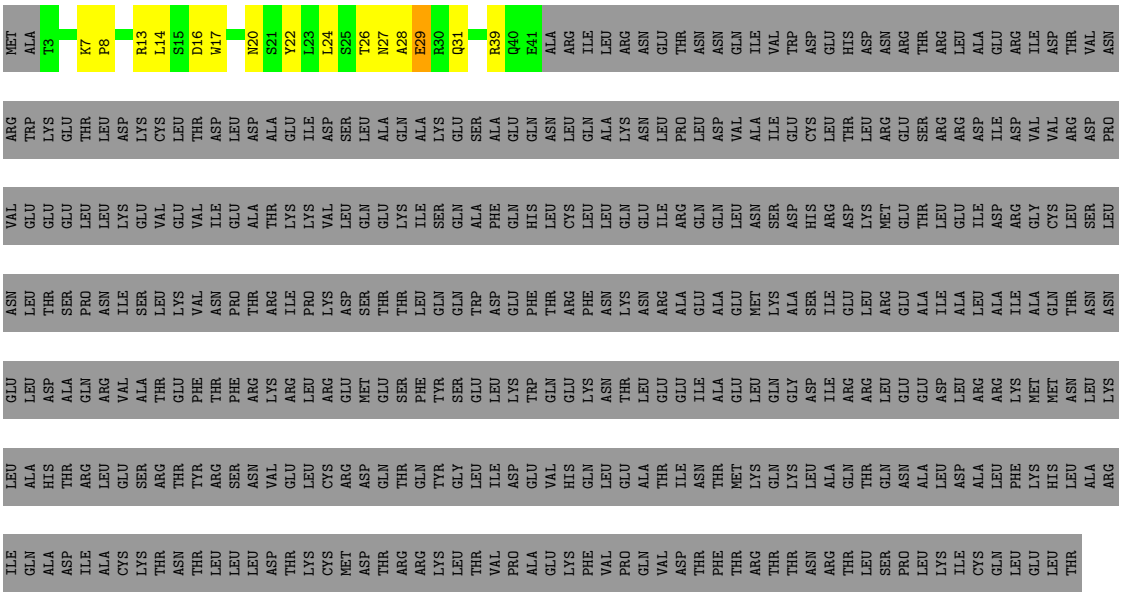






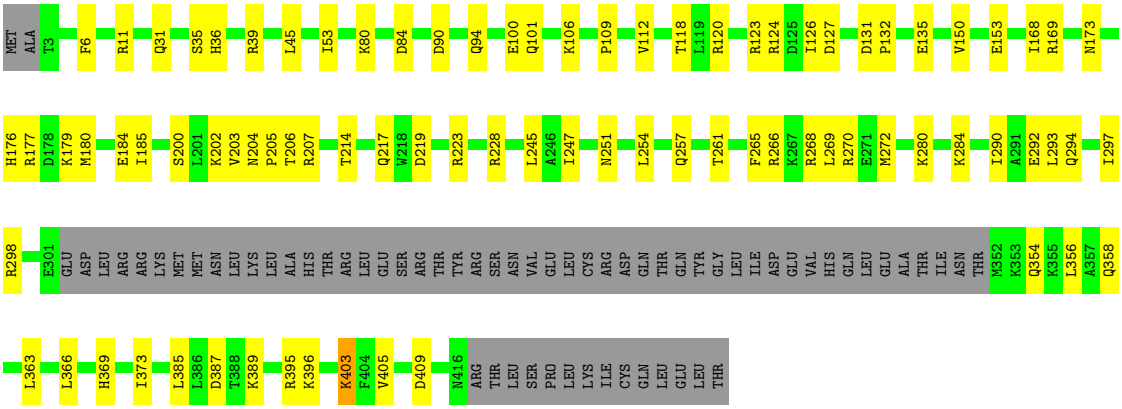
• Molecule 11: Tektin-2

Chain B0:



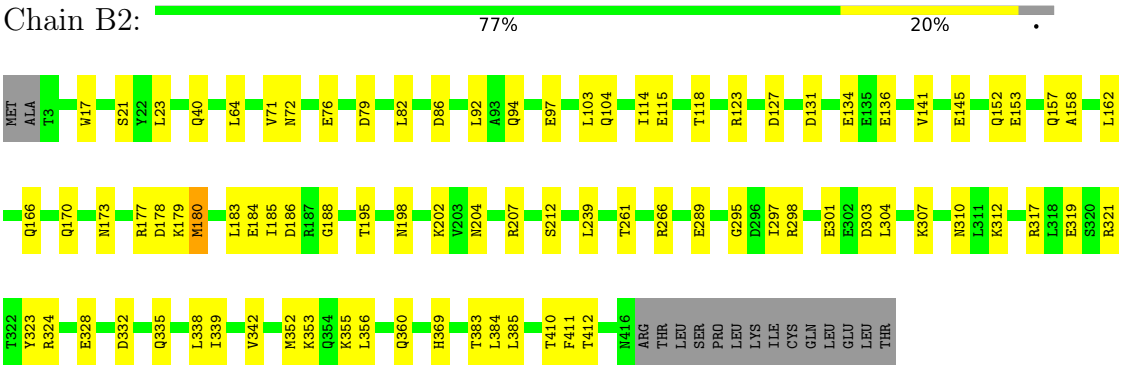
• Molecule 11: Tektin-2

Chain B1:



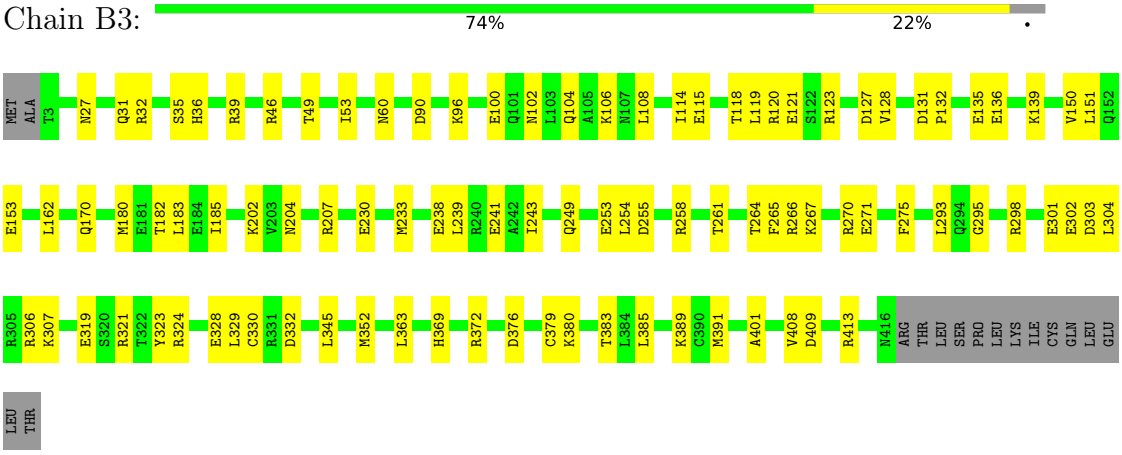
• Molecule 11: Tektin-2

Chain B2:



• Molecule 11: Tektin-2

Chain B3:



• Molecule 11: Tektin-2

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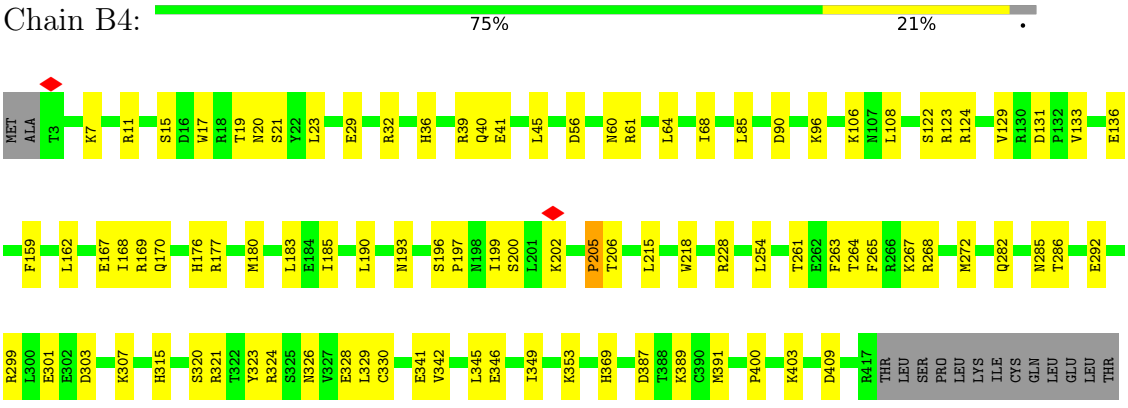

• Molecule 11: Tektin-2

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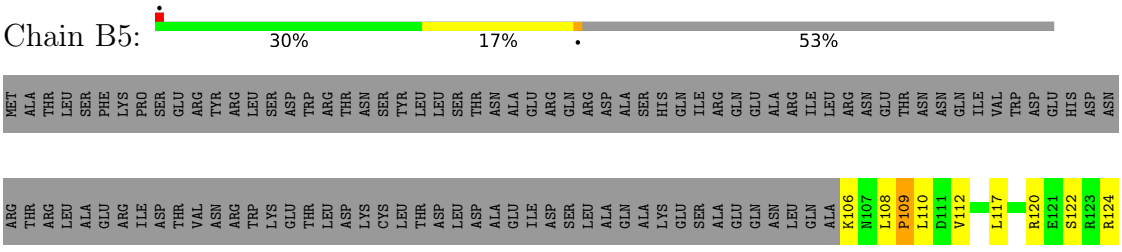
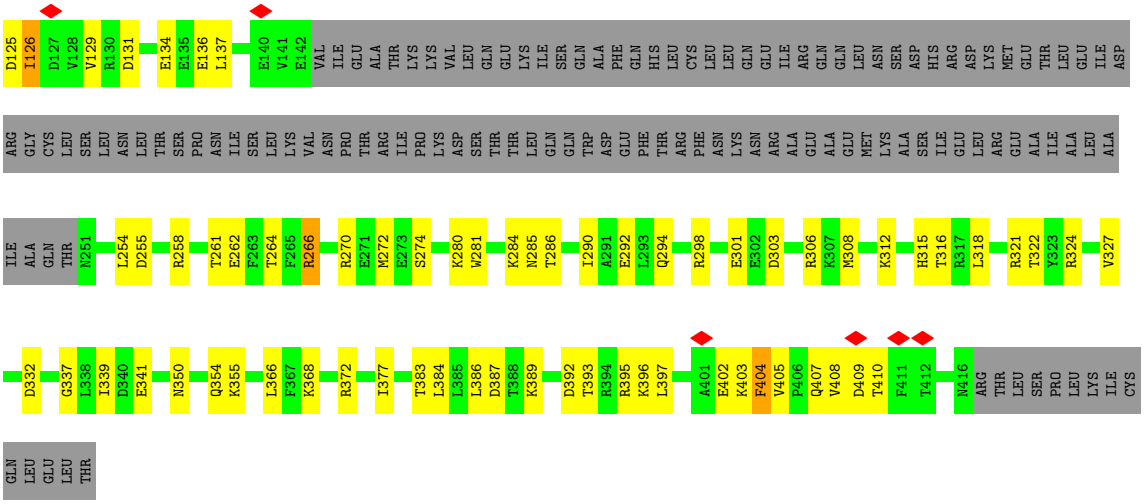
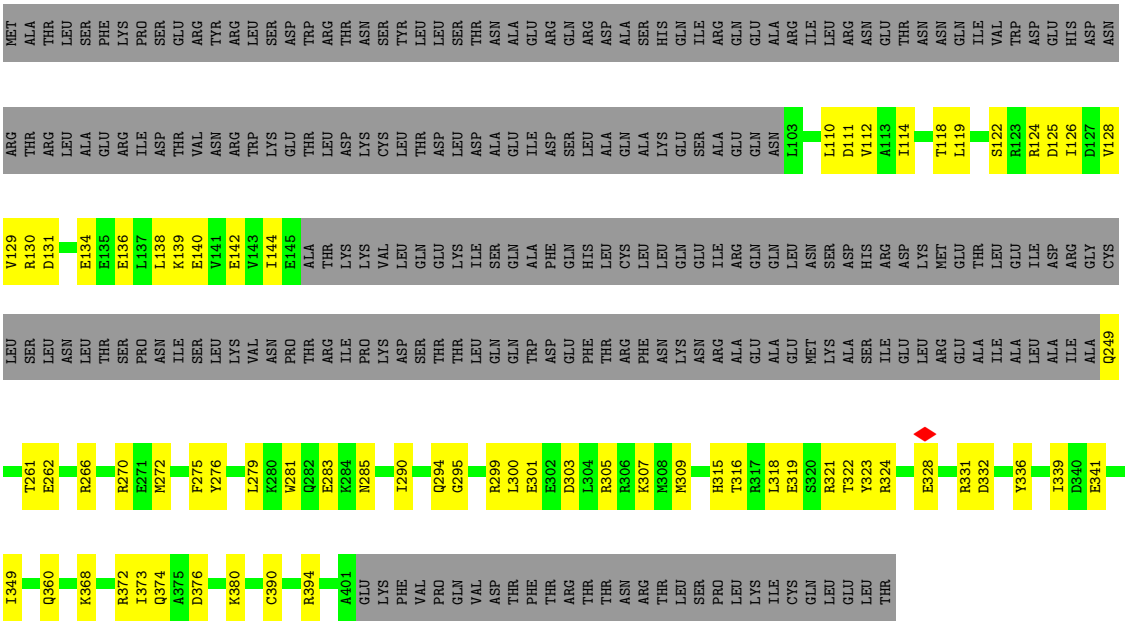




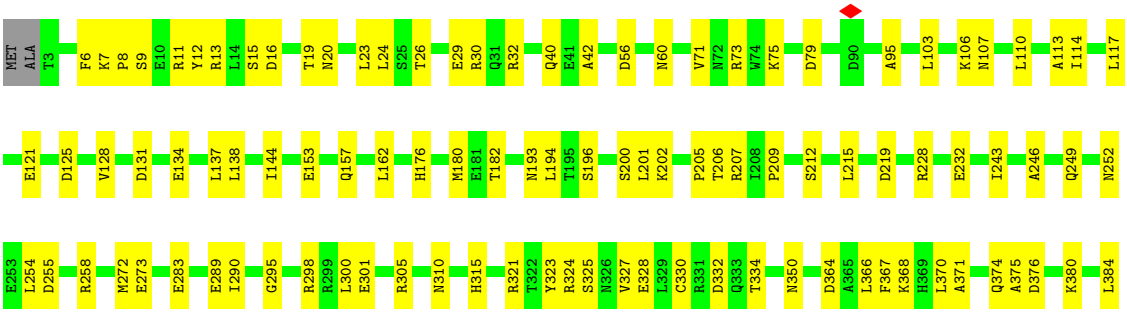
• Molecule 11: Tektin-2

Chain R0:



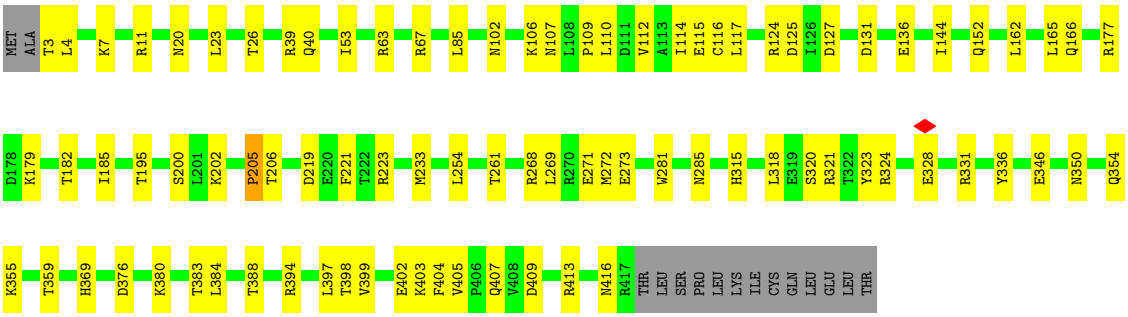
• Molecule 11: Tektin-2

Chain R1:



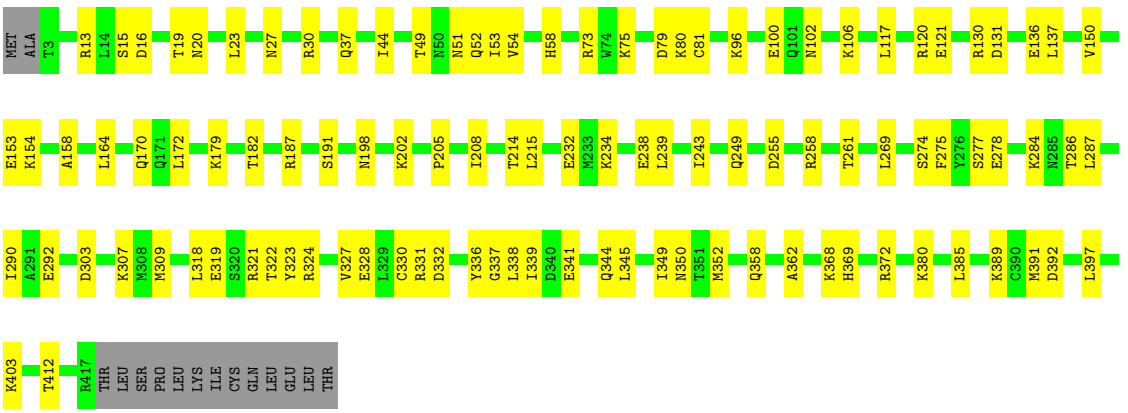
• Molecule 11: Tektin-2

Chain R2:



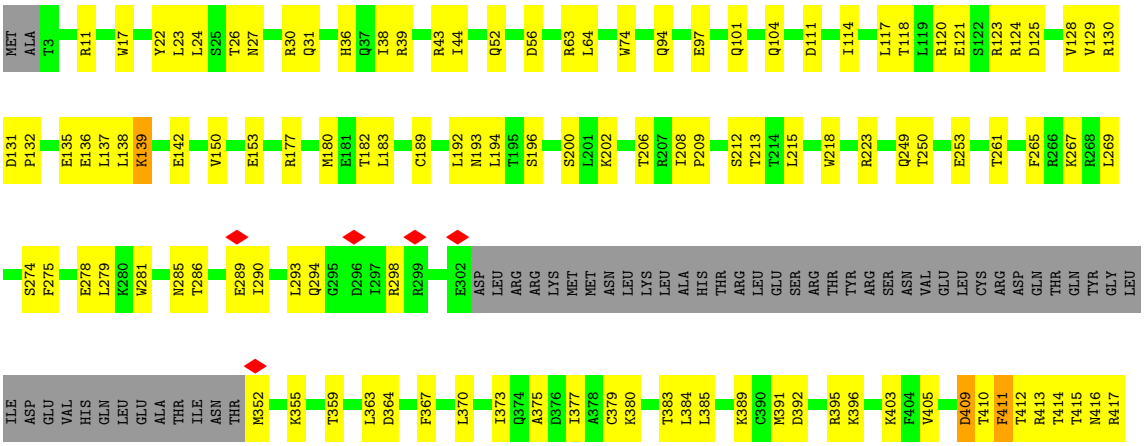
• Molecule 11: Tektin-2

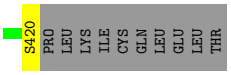
Chain R3:



• Molecule 11: Tektin-2

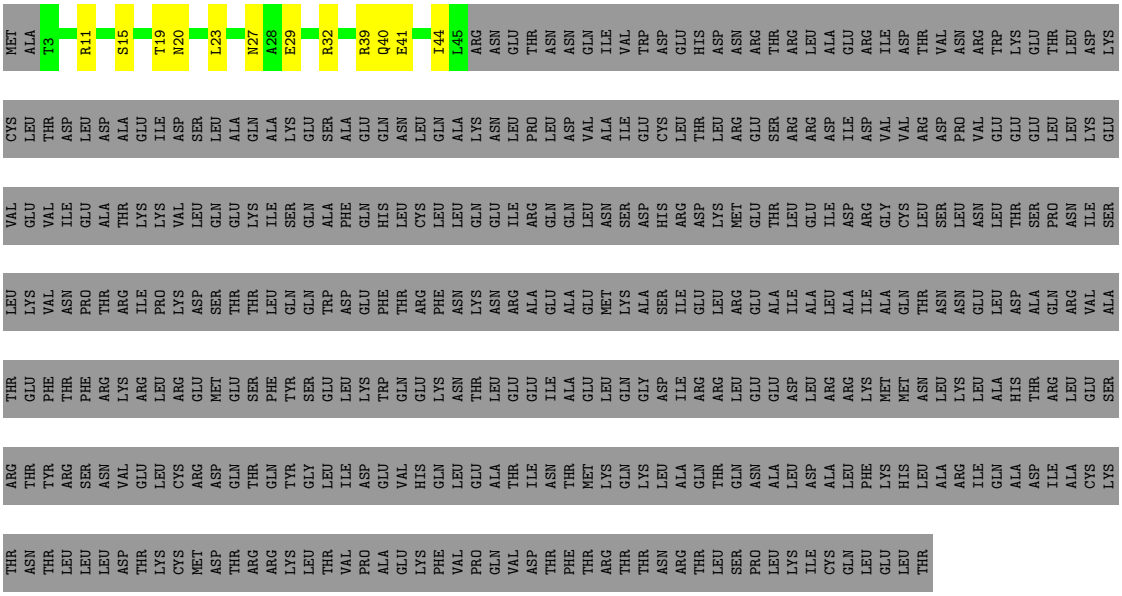
Chain R4:





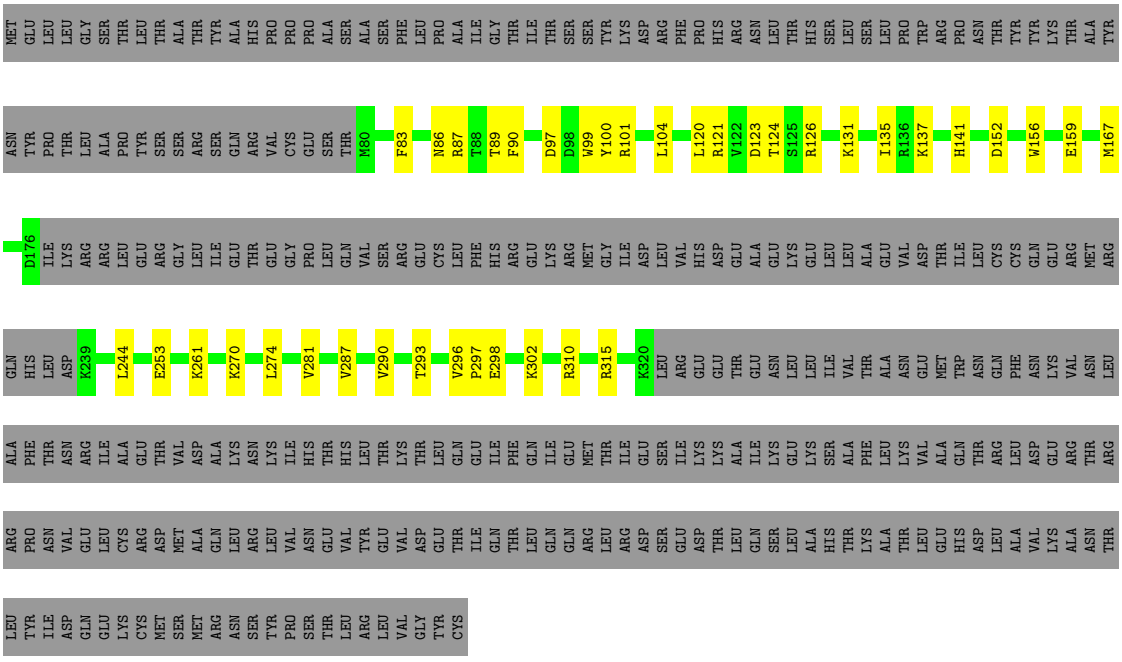
- Molecule 11: Tektin-2

Chain R5:



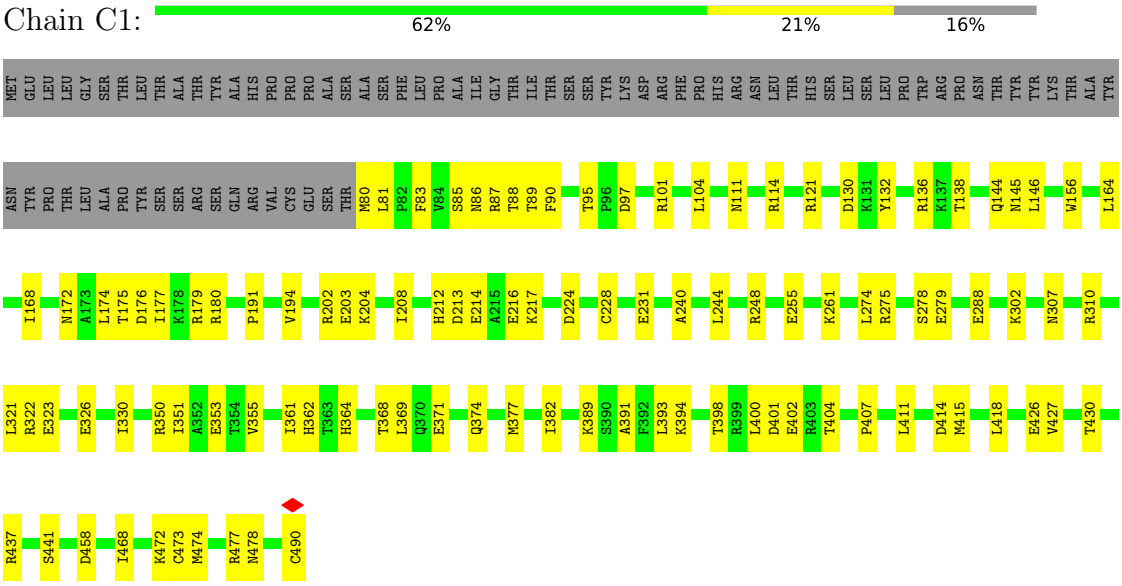
- Molecule 12: Tektin-3

Chain C0:



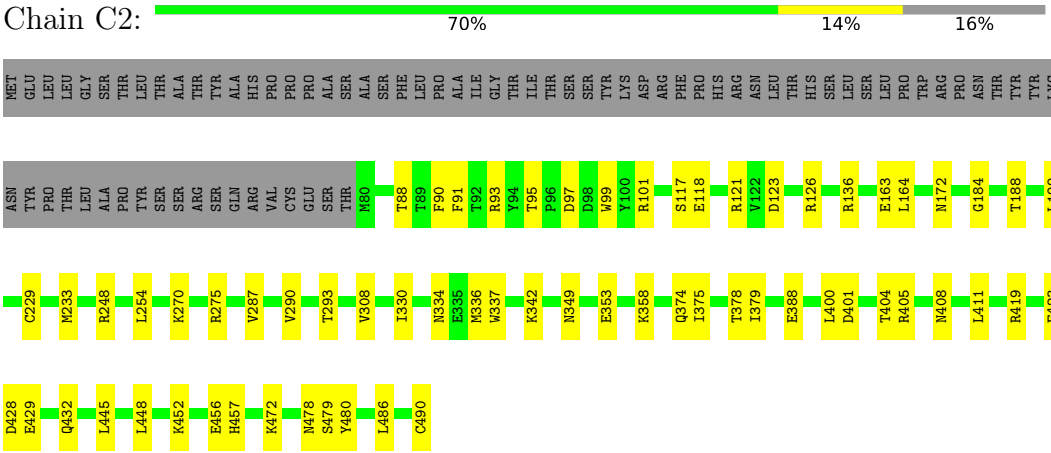
- Molecule 12: Tektin-3

Chain C1:



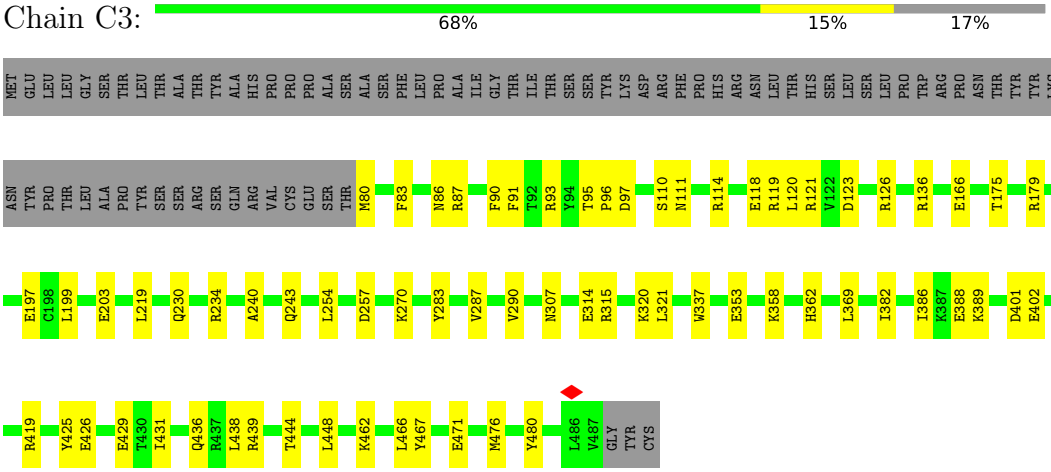
- Molecule 12: Tektin-3

Chain C2:



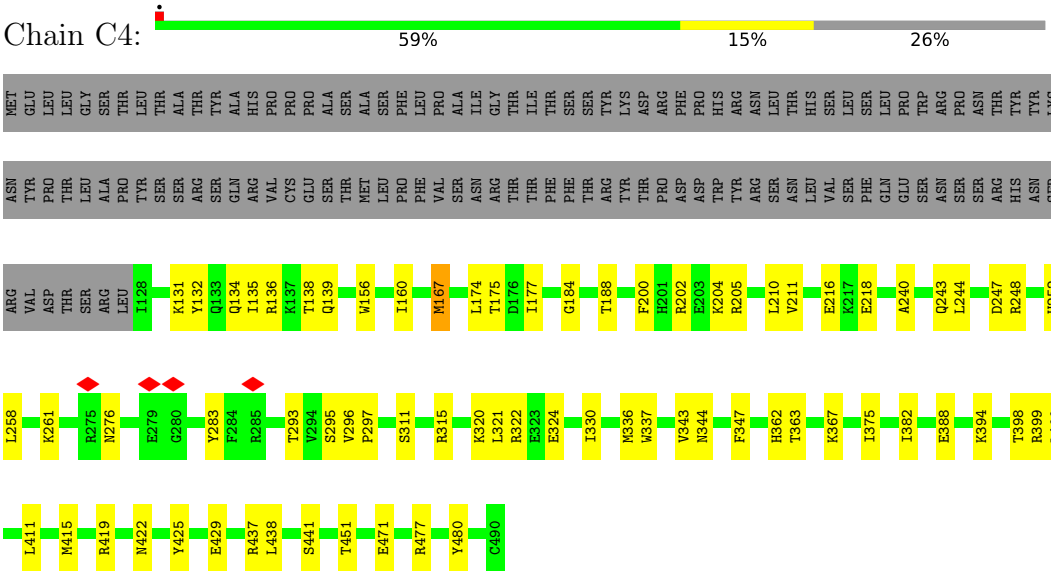
- Molecule 12: Tektin-3

Chain C3:



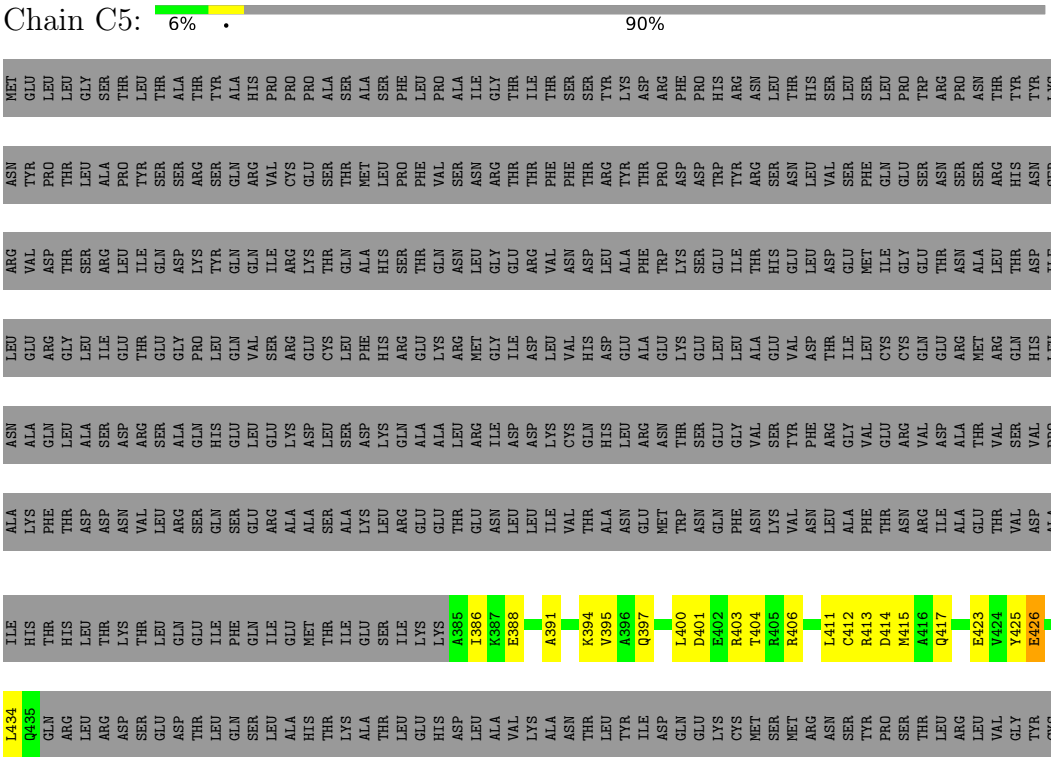
- Molecule 12: Tektin-3

Chain C4:



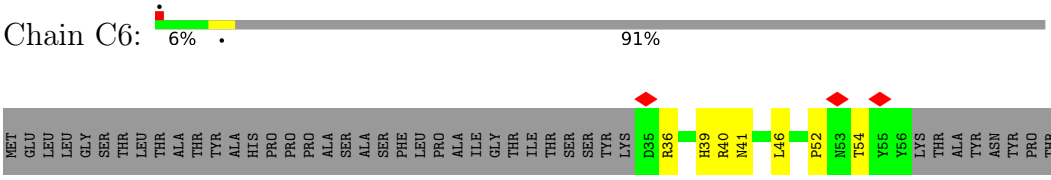
• Molecule 12: Tektin-3

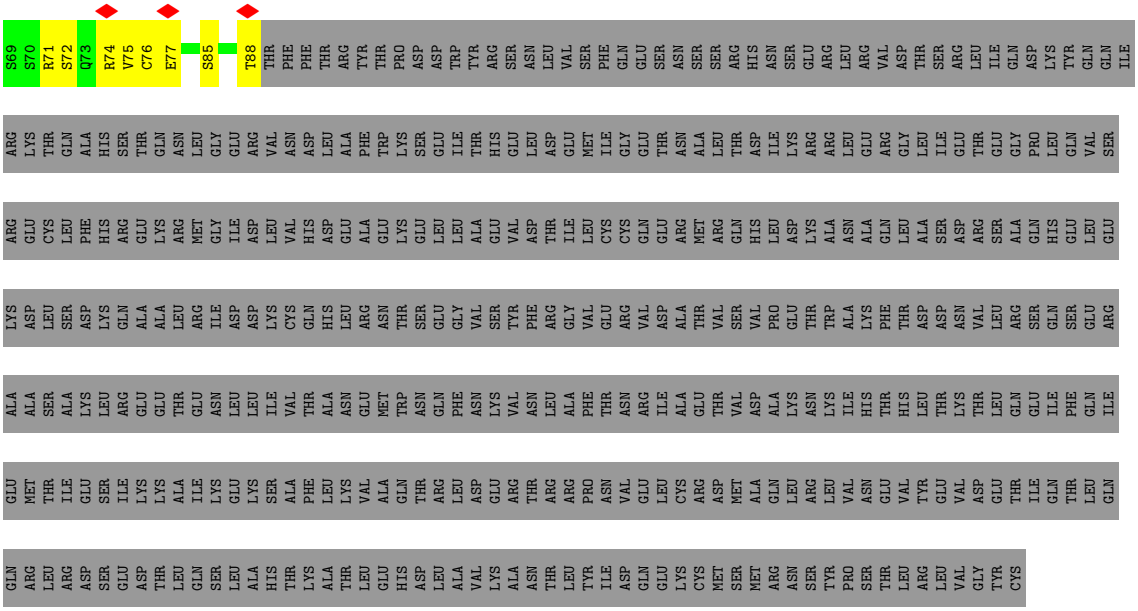
Chain C5:



• Molecule 12: Tektin-3

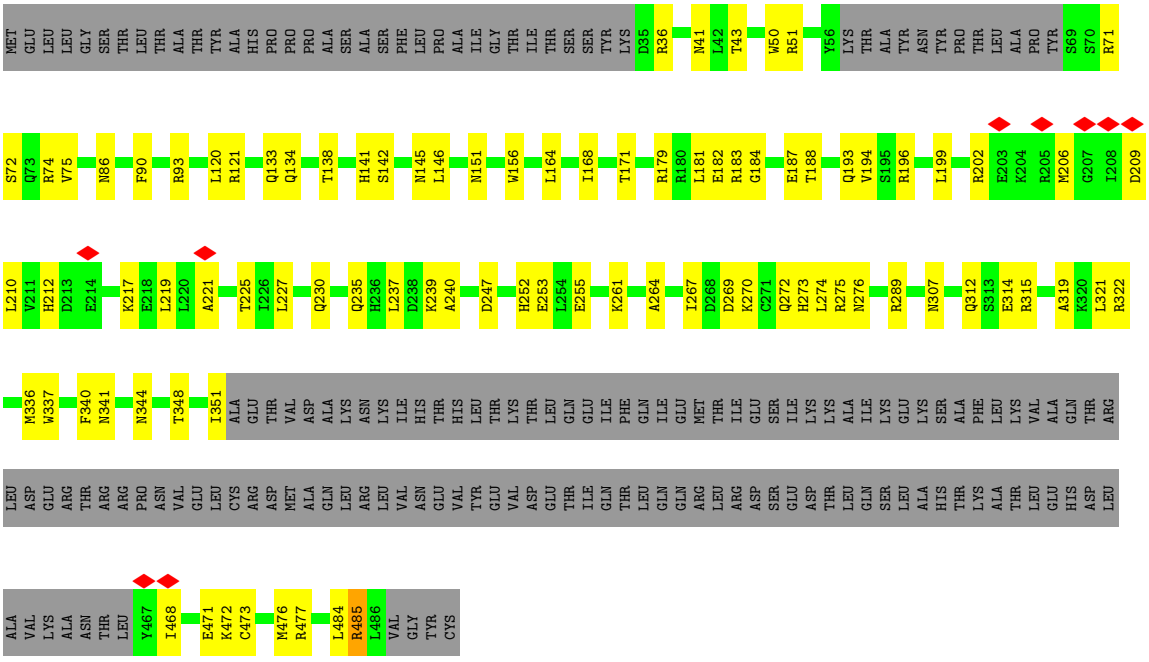
Chain C6:





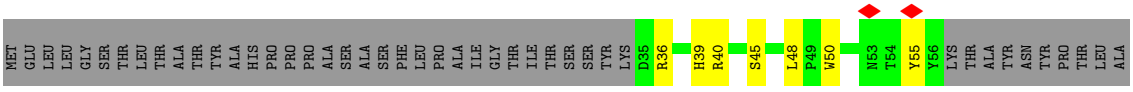
• Molecule 12: Tektin-3

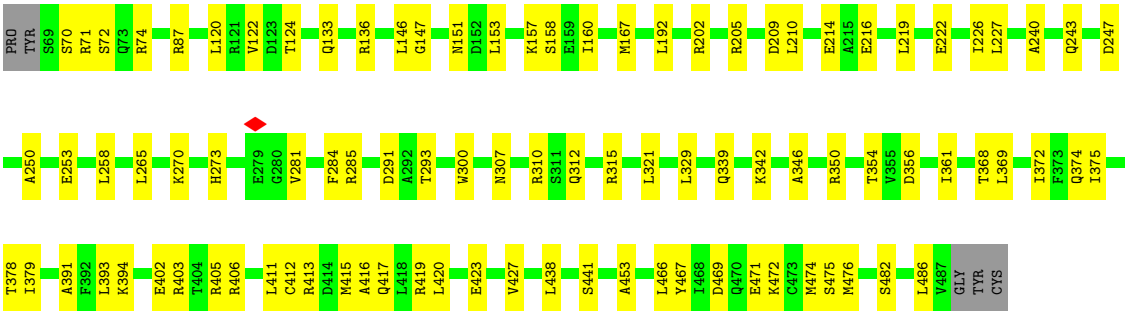
Chain S0:



• Molecule 12: Tektin-3

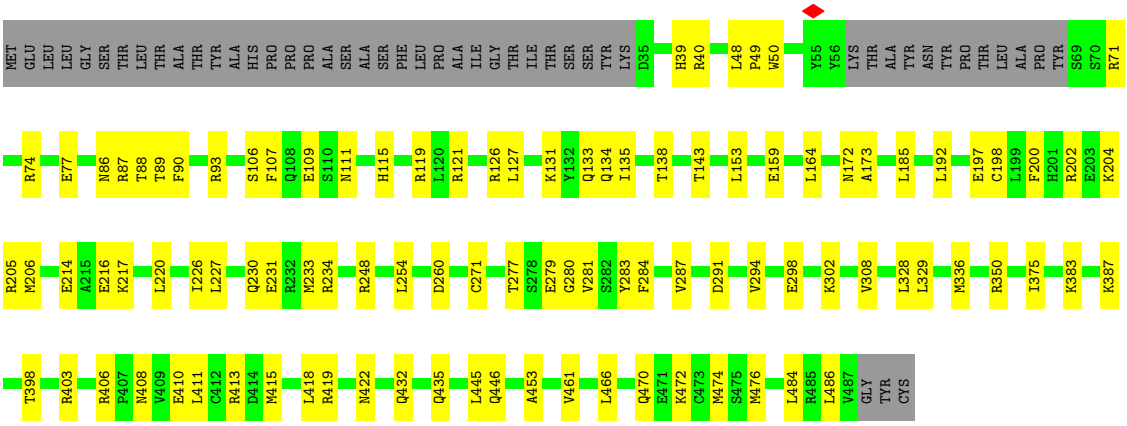
Chain S1:





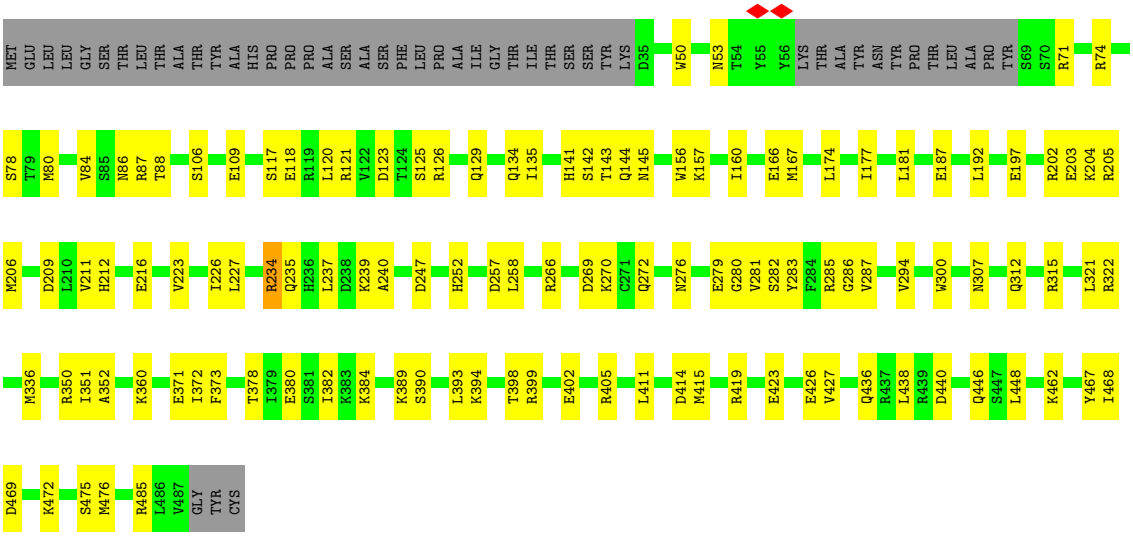
• Molecule 12: Tektin-3

Chain S2:



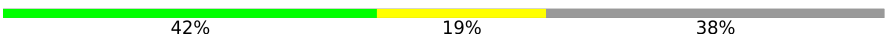
• Molecule 12: Tektin-3

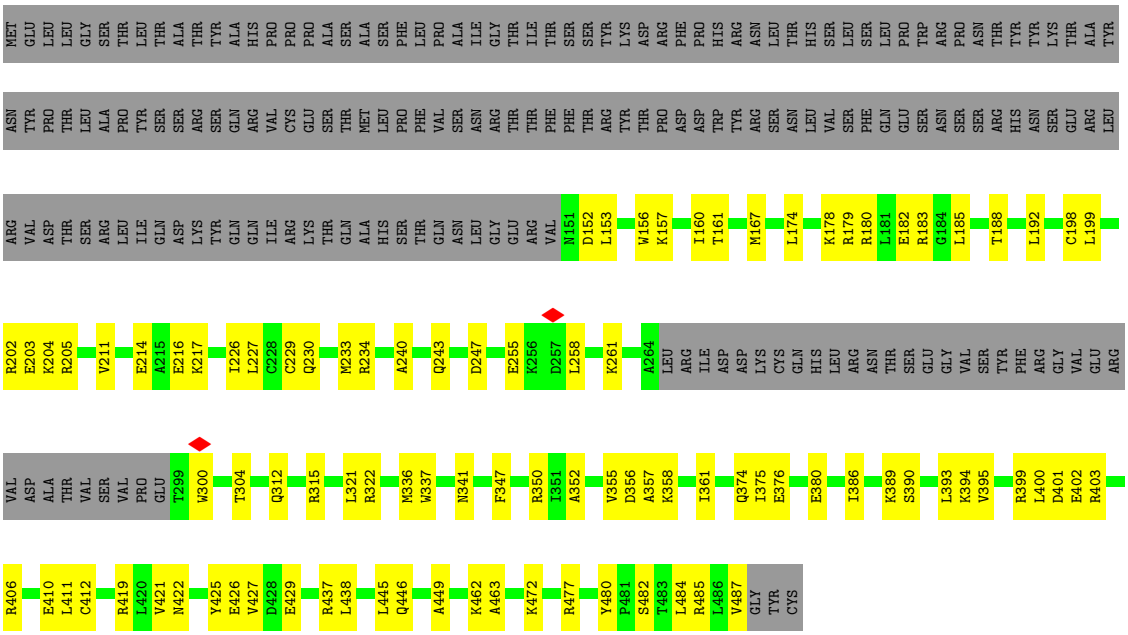
Chain S3:



• Molecule 12: Tektin-3

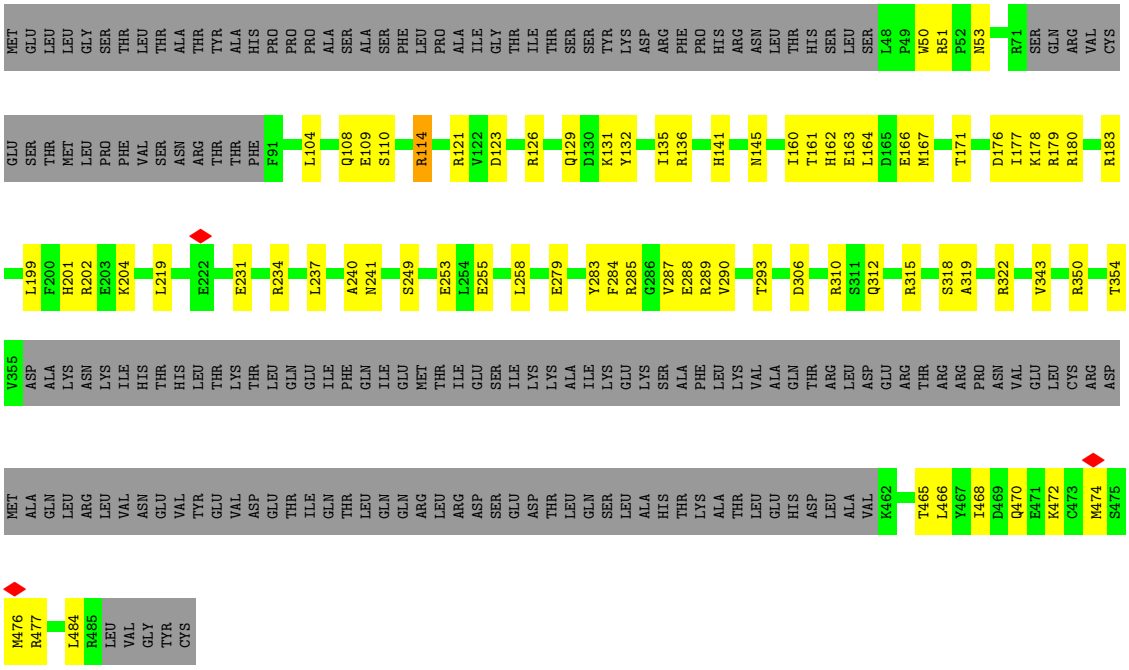
Chain S4:





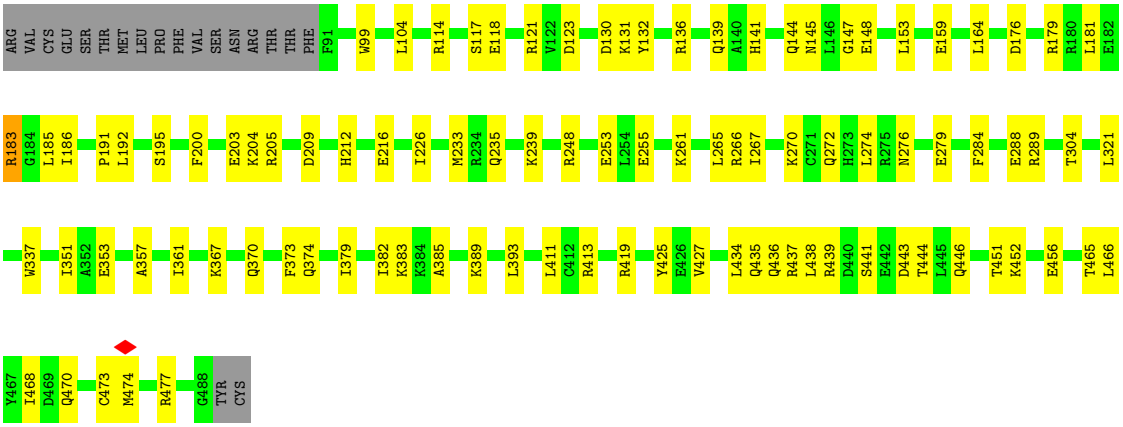
• Molecule 12: Tektin-3

Chain S5:



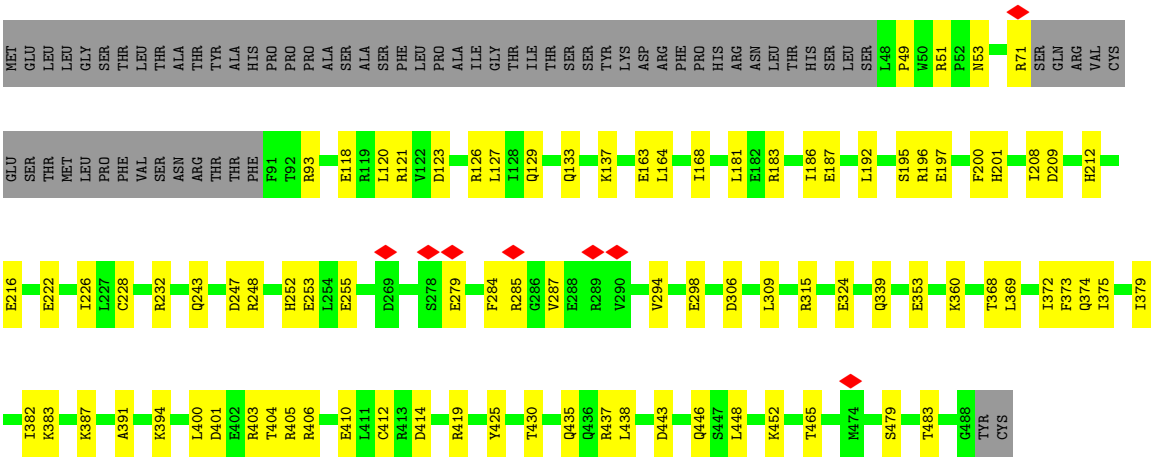
• Molecule 12: Tektin-3

Chain S6:



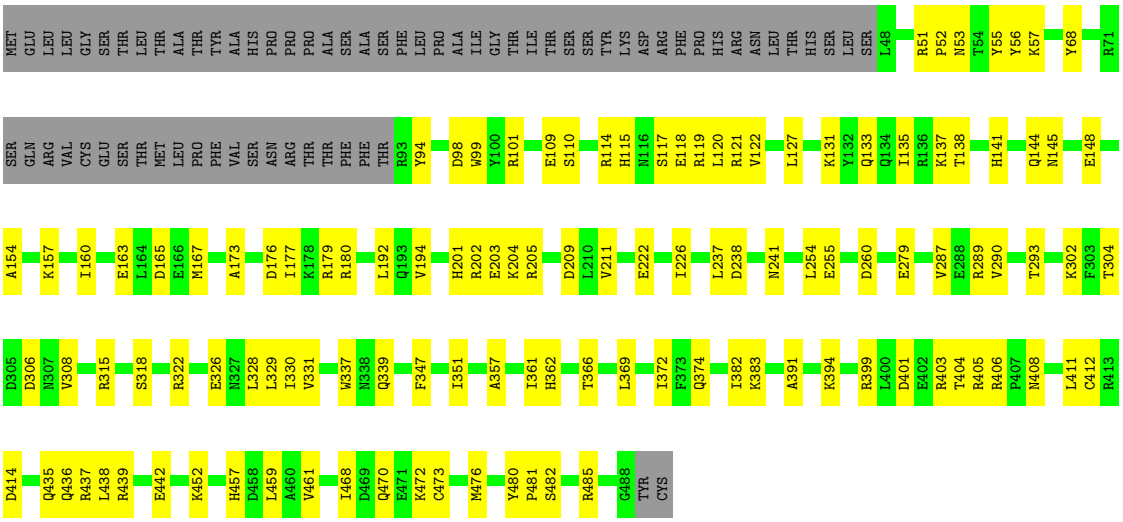
• Molecule 12: Tektin-3

Chain S7:



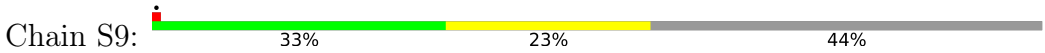
• Molecule 12: Tektin-3

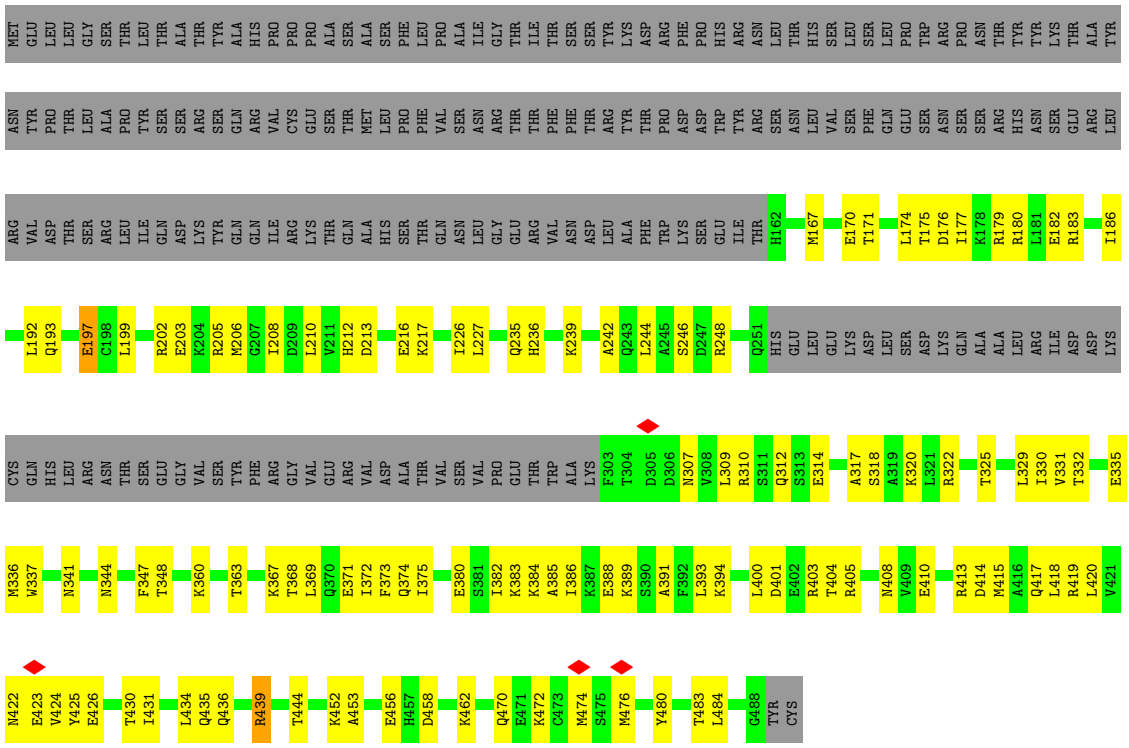
Chain S8:



• Molecule 12: Tektin-3

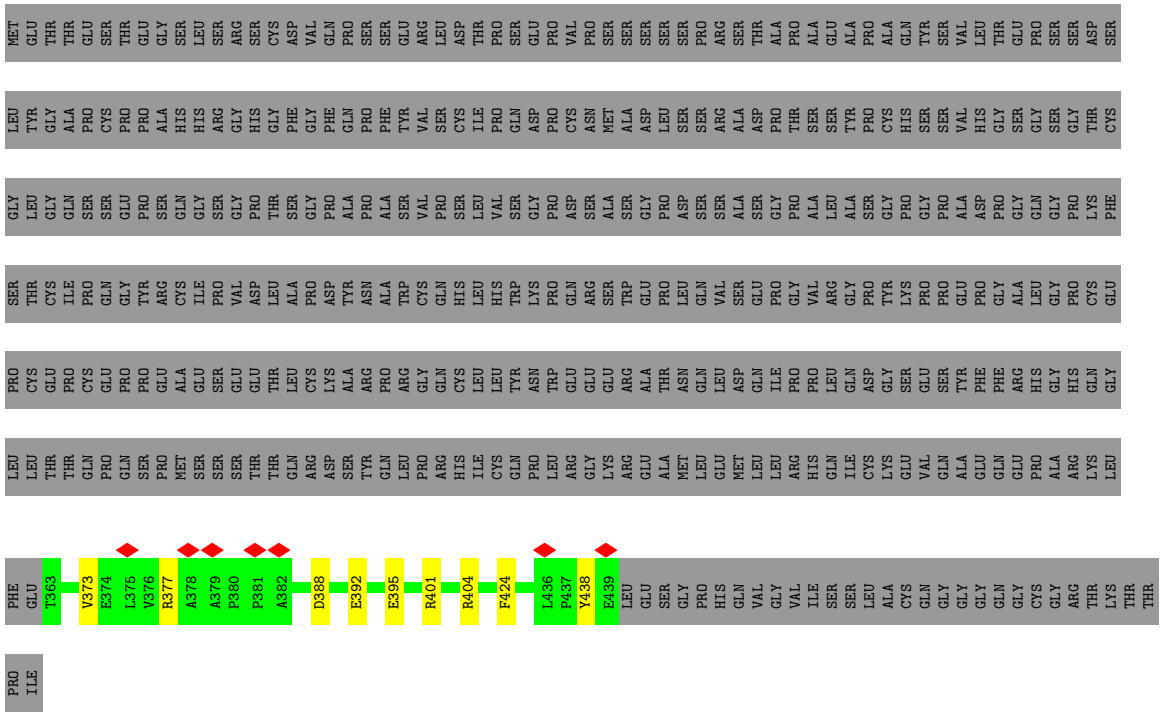
Chain S9:





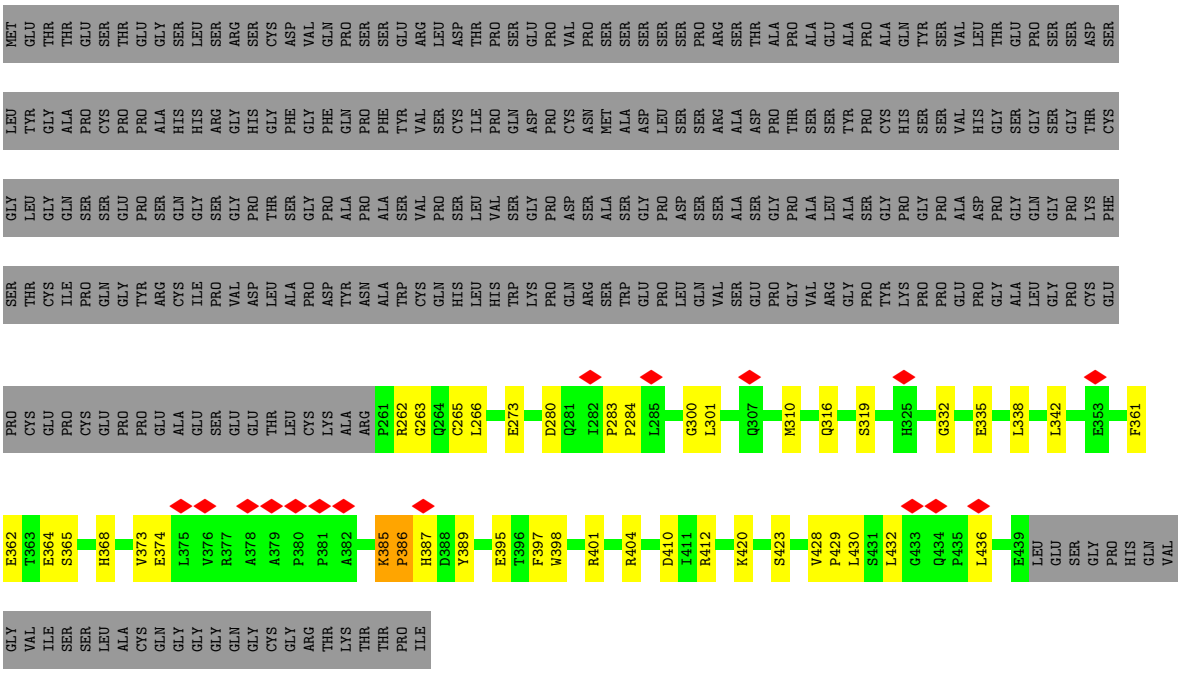
• Molecule 13: Sperm-associated antigen 8

Chain D:



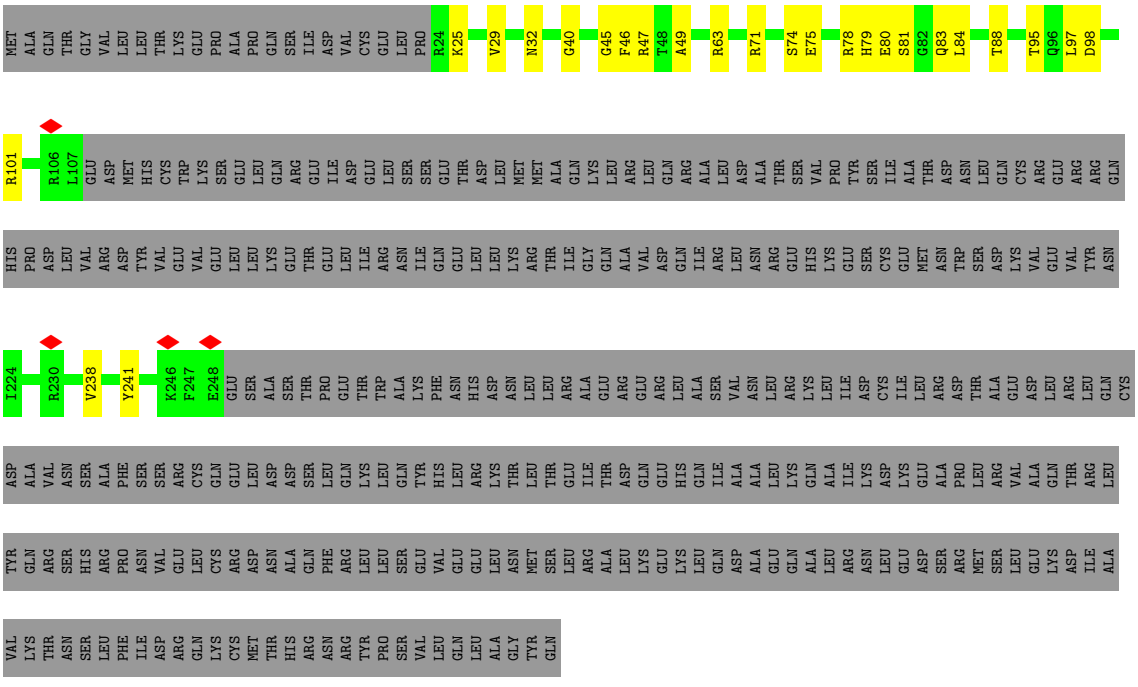
• Molecule 13: Sperm-associated antigen 8

Chain K3:



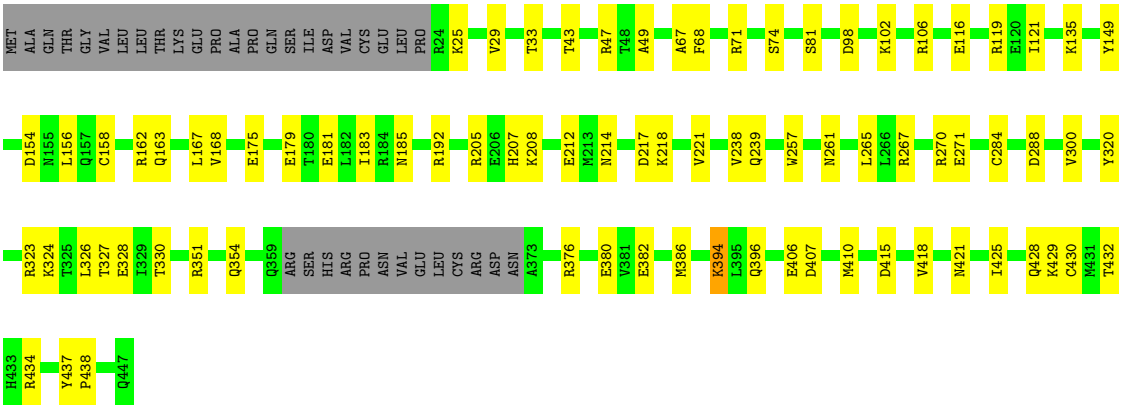
• Molecule 14: Tektin-4

Chain D0:



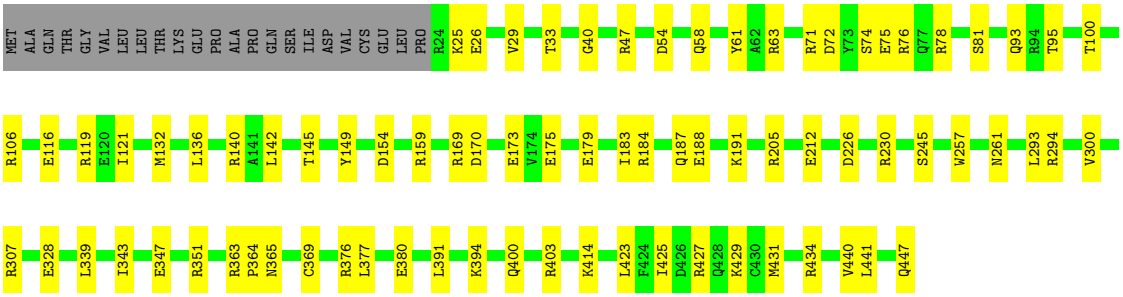
• Molecule 14: Tektin-4

Chain D1:



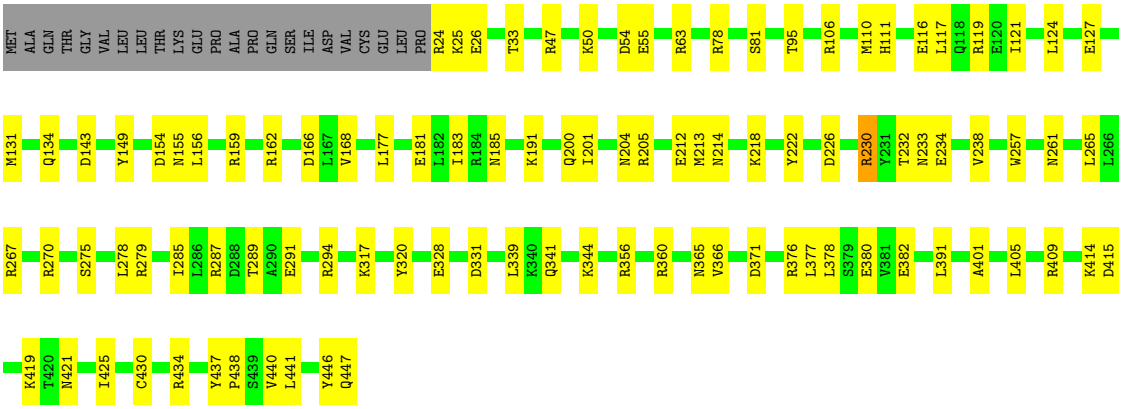
• Molecule 14: Tektin-4

Chain D2:



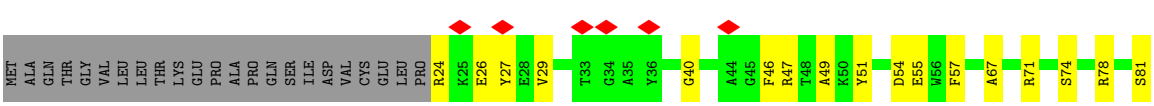
• Molecule 14: Tektin-4

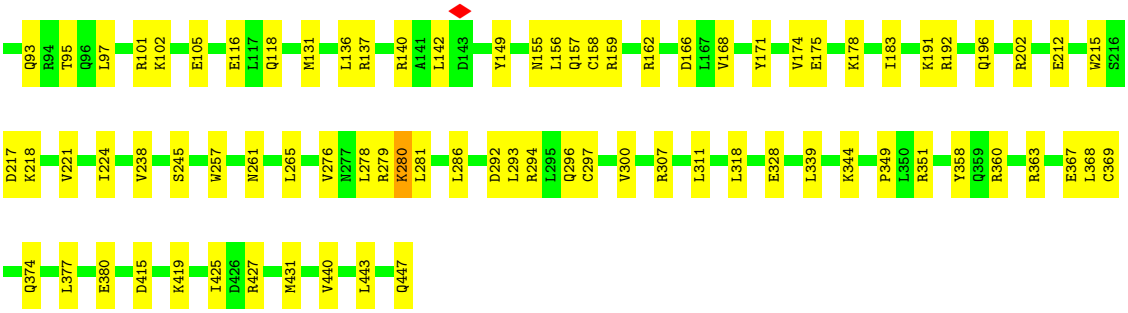
Chain D3:



• Molecule 14: Tektin-4

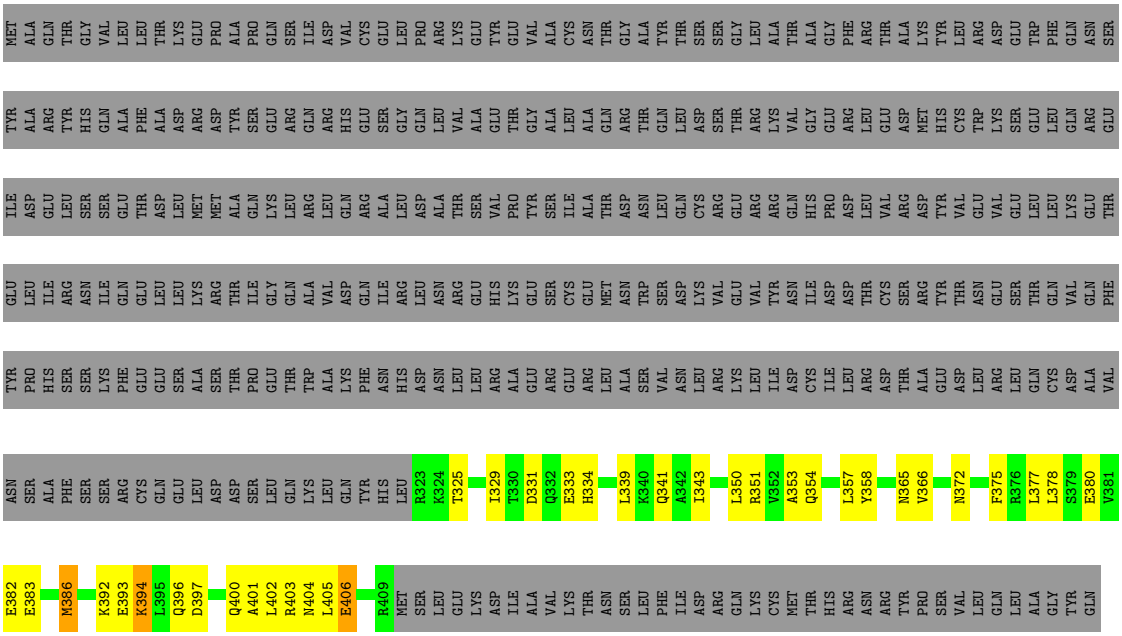
Chain D4:





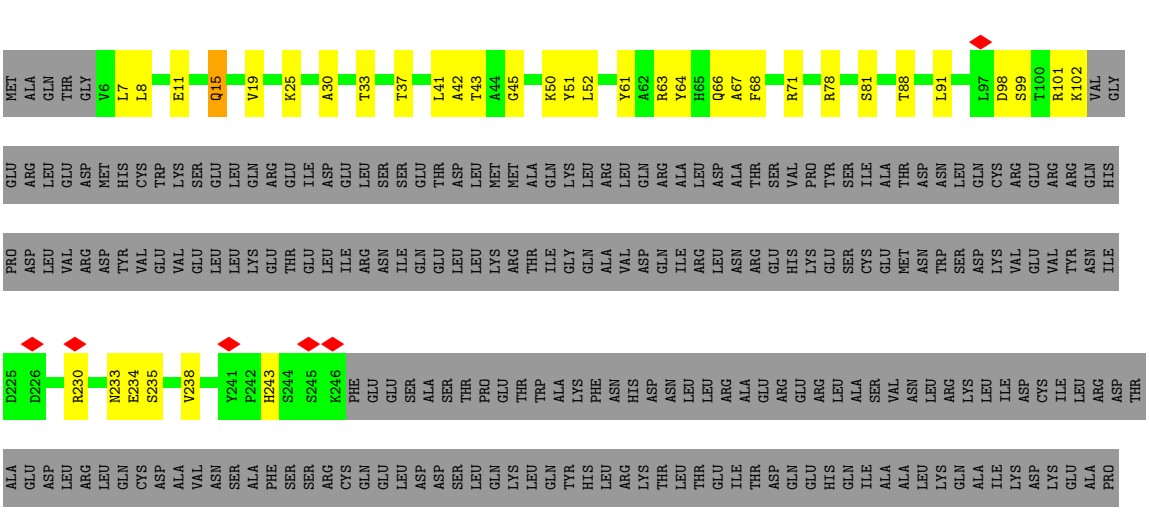
• Molecule 14: Tektin-4

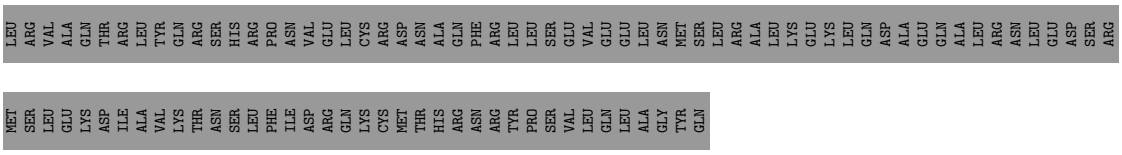
Chain D5:



• Molecule 14: Tektin-4

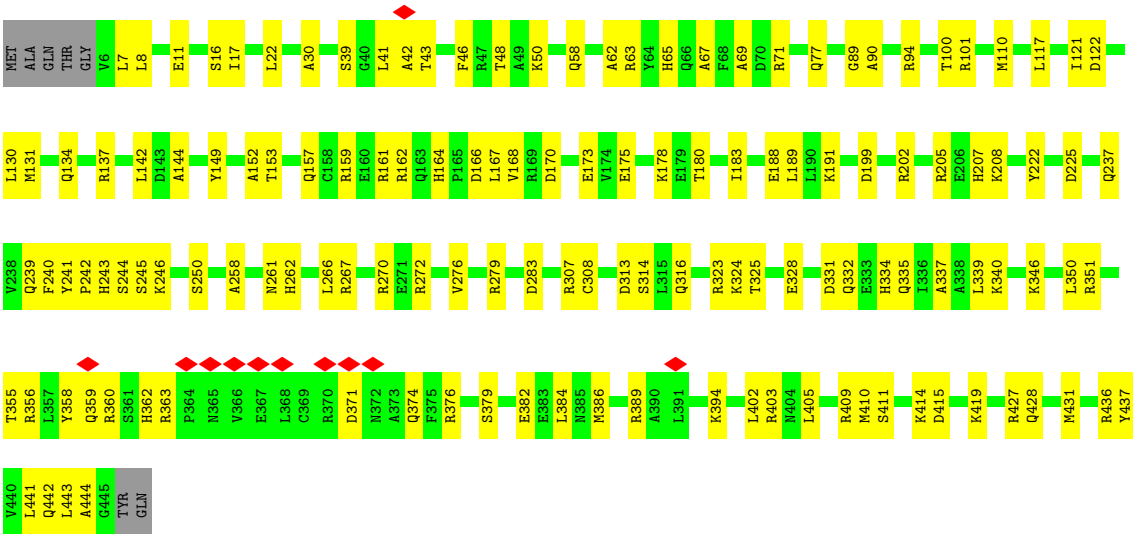
Chain T0:





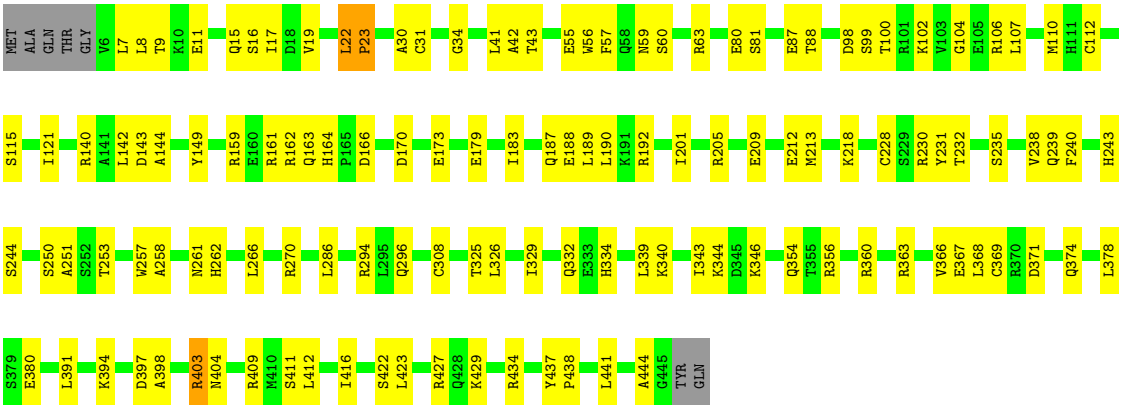
• Molecule 14: Tektin-4

Chain T1:



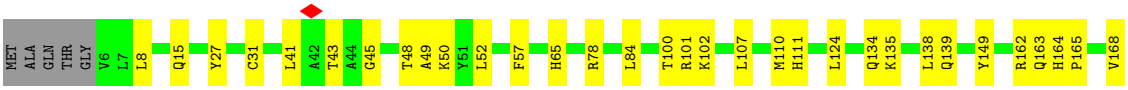
• Molecule 14: Tektin-4

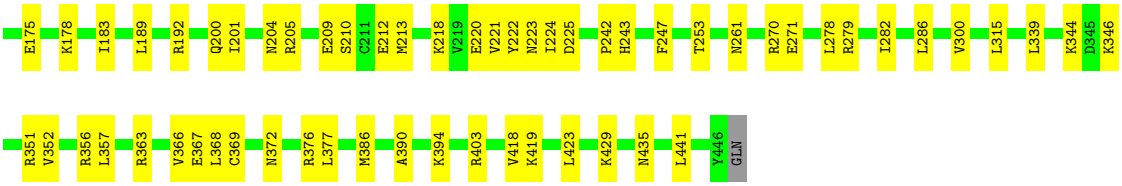
Chain T2:



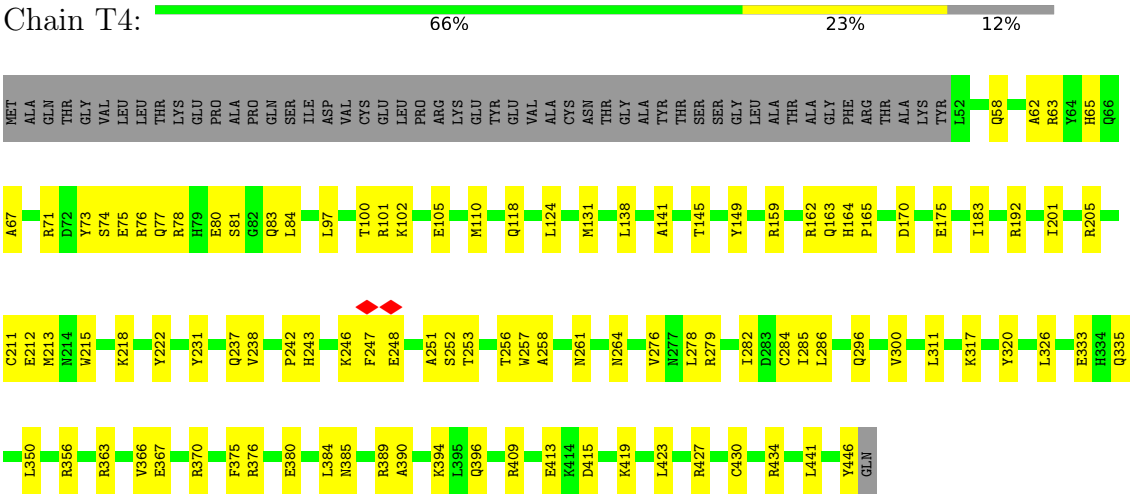
• Molecule 14: Tektin-4

Chain T3:

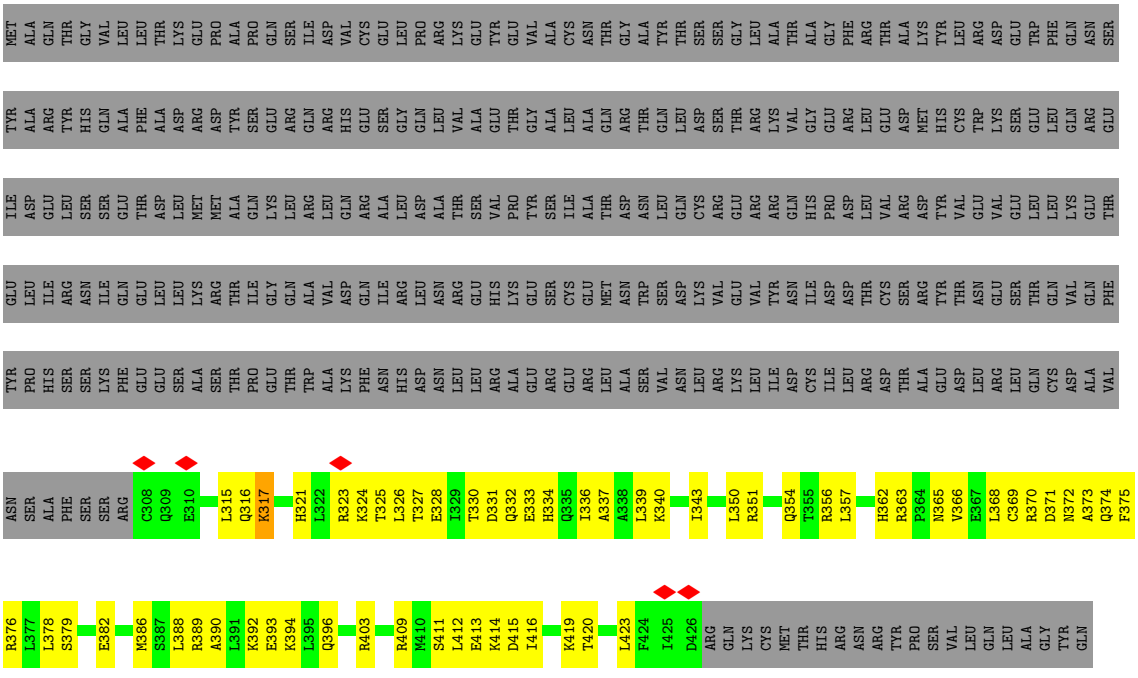




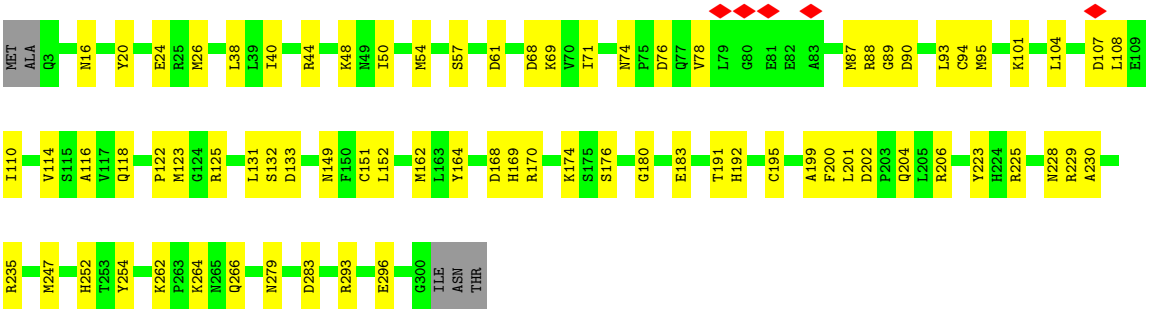
• Molecule 14: Tektin-4



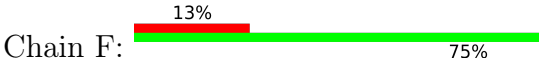
• Molecule 14: Tektin-4

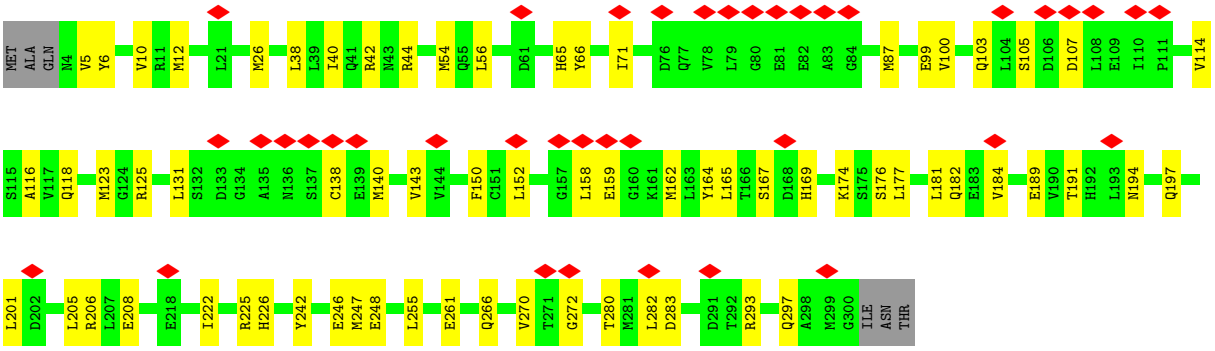


• Molecule 15: Cilia- and flagella-associated protein 161

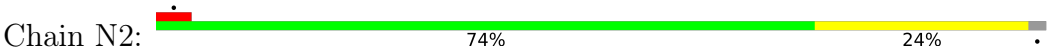


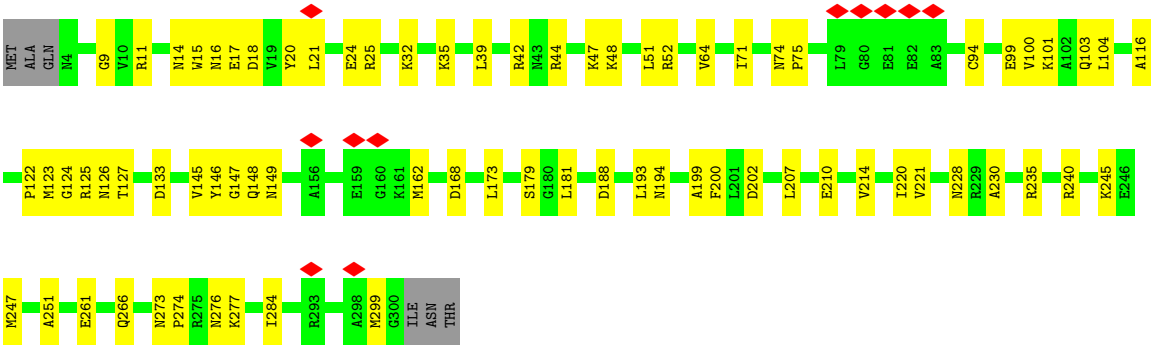
• Molecule 15: Cilia- and flagella-associated protein 161



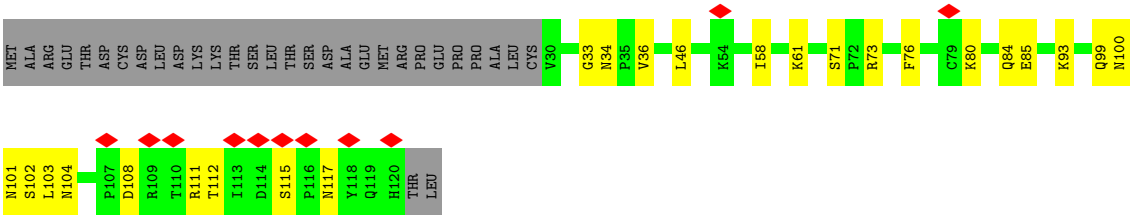


• Molecule 15: Cilia- and flagella-associated protein 161



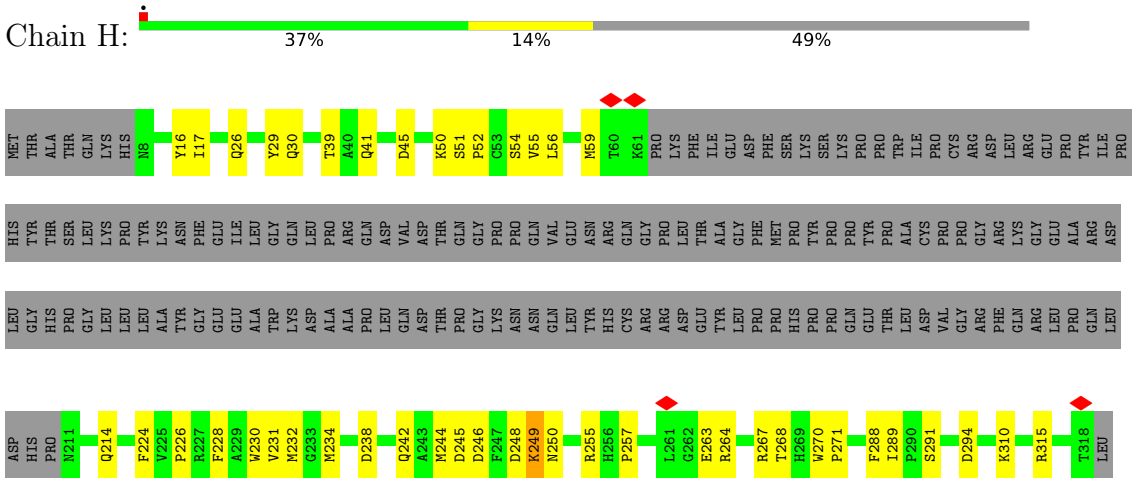


• Molecule 16: Piercer of microtubule wall 2 protein



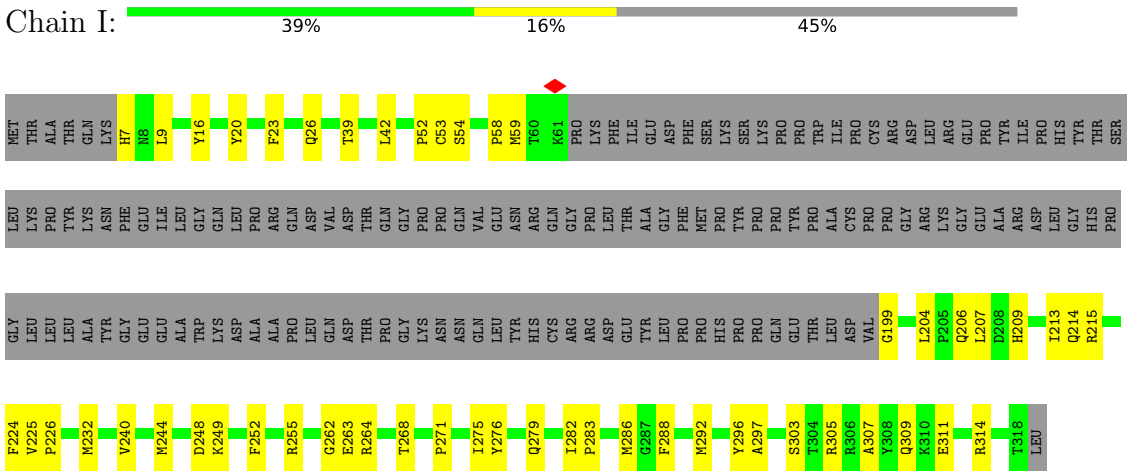
• Molecule 17: Protein FAM166A

Chain H:



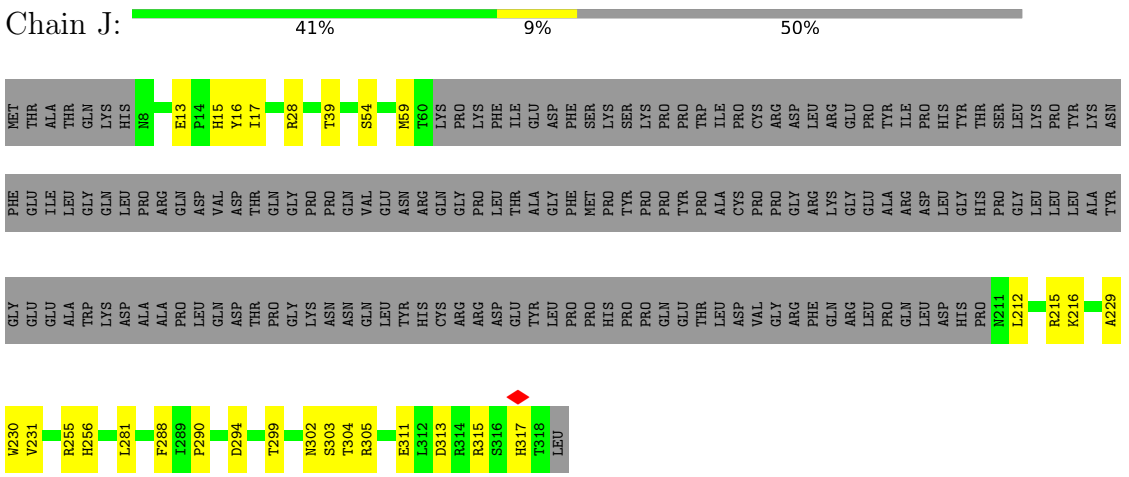
• Molecule 17: Protein FAM166A

Chain I:



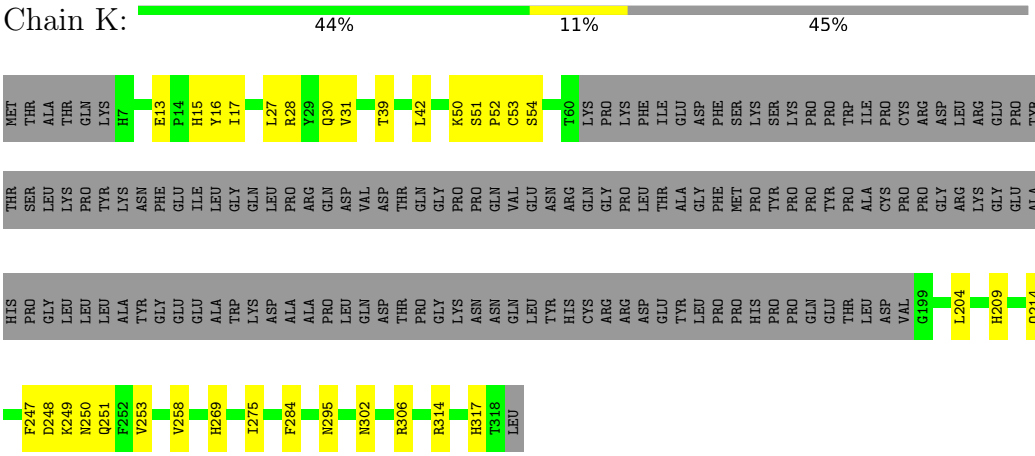
• Molecule 17: Protein FAM166A

Chain J:



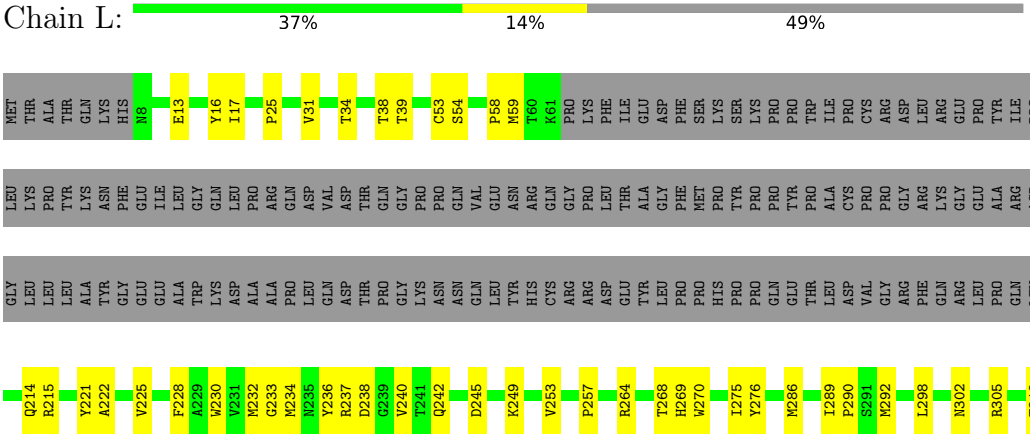
• Molecule 17: Protein FAM166A

Chain K:



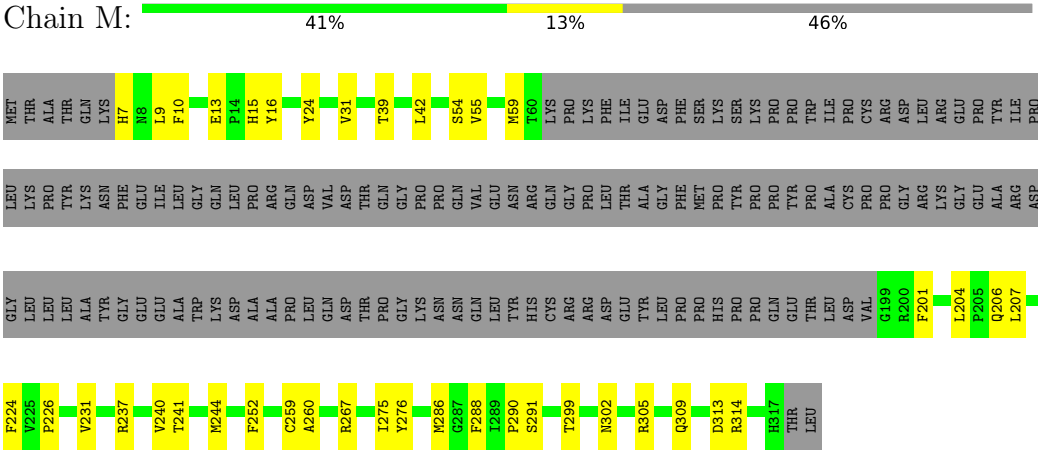
• Molecule 17: Protein FAM166A

Chain L:



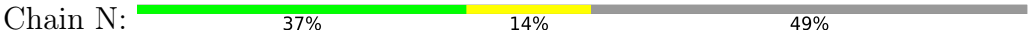
• Molecule 17: Protein FAM166A

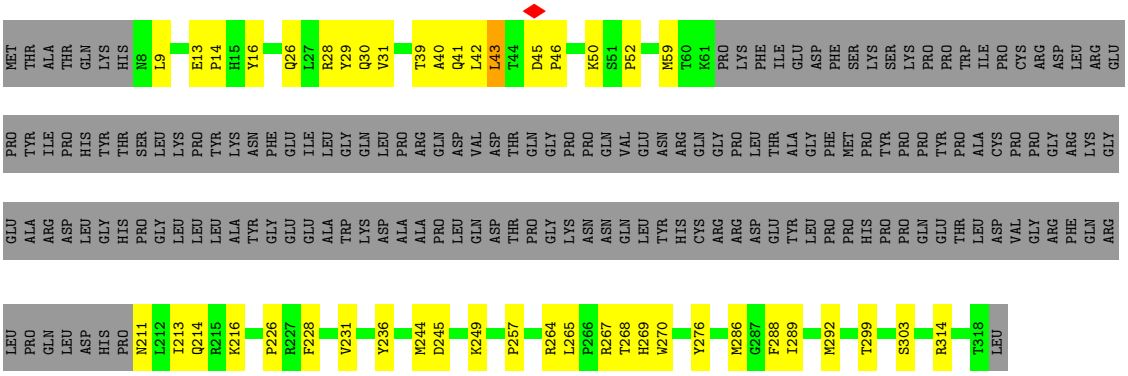
Chain M:



• Molecule 17: Protein FAM166A

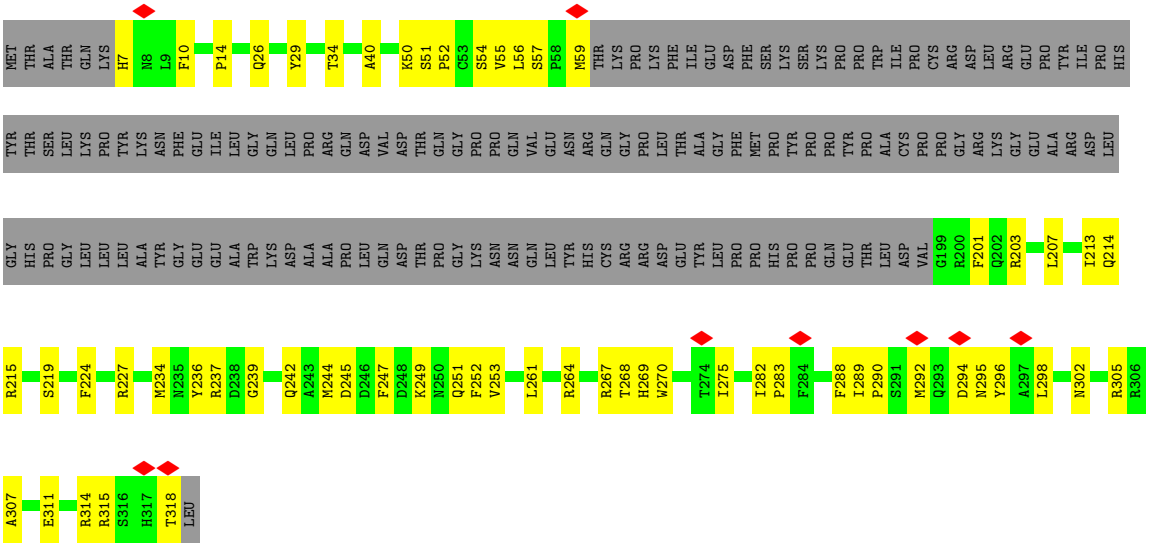
Chain N:





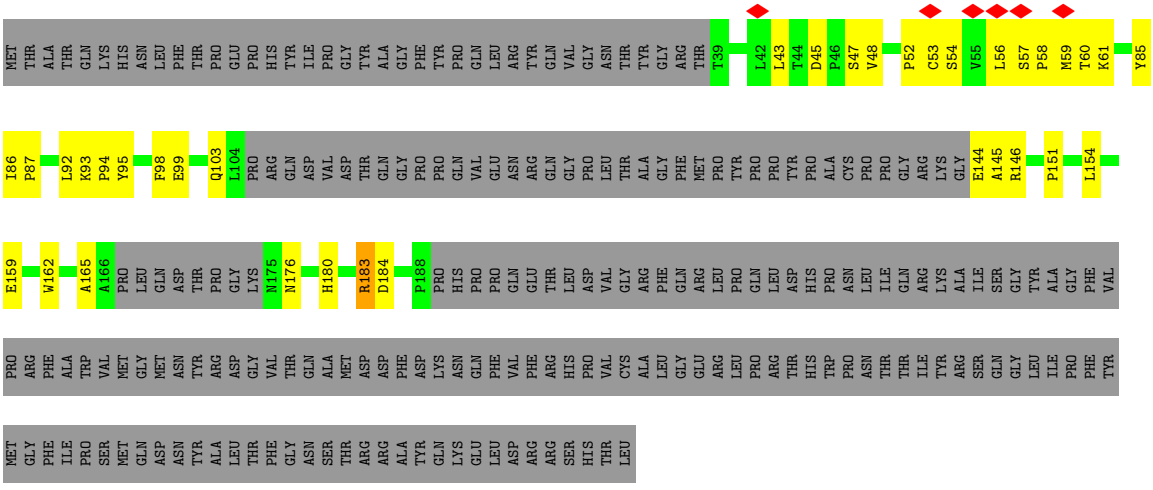
• Molecule 17: Protein FAM166A

Chain O7:



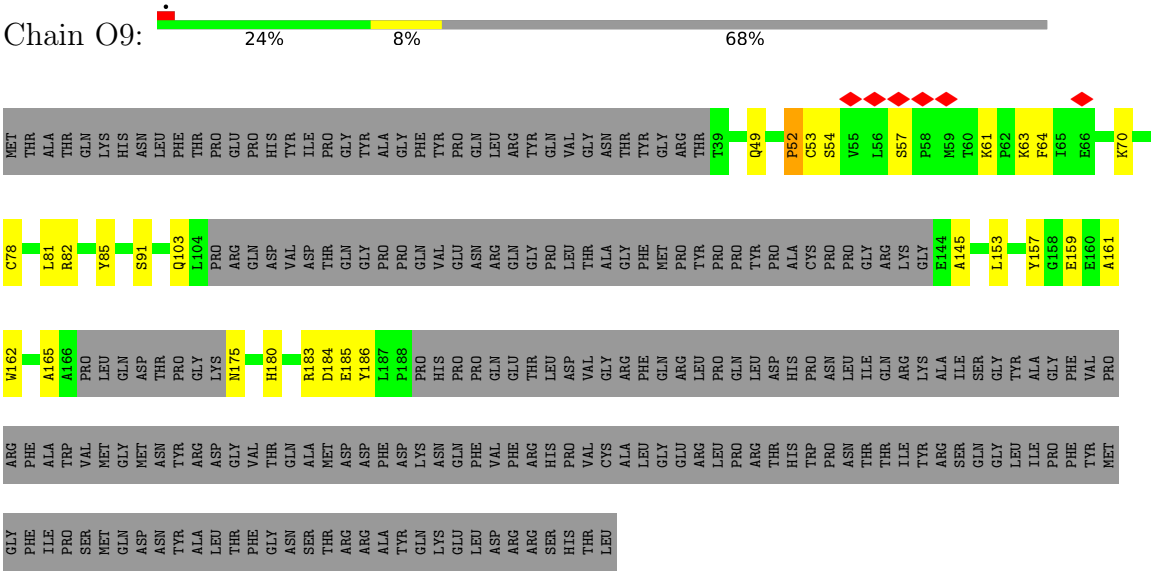
• Molecule 17: Protein FAM166A

Chain O8:



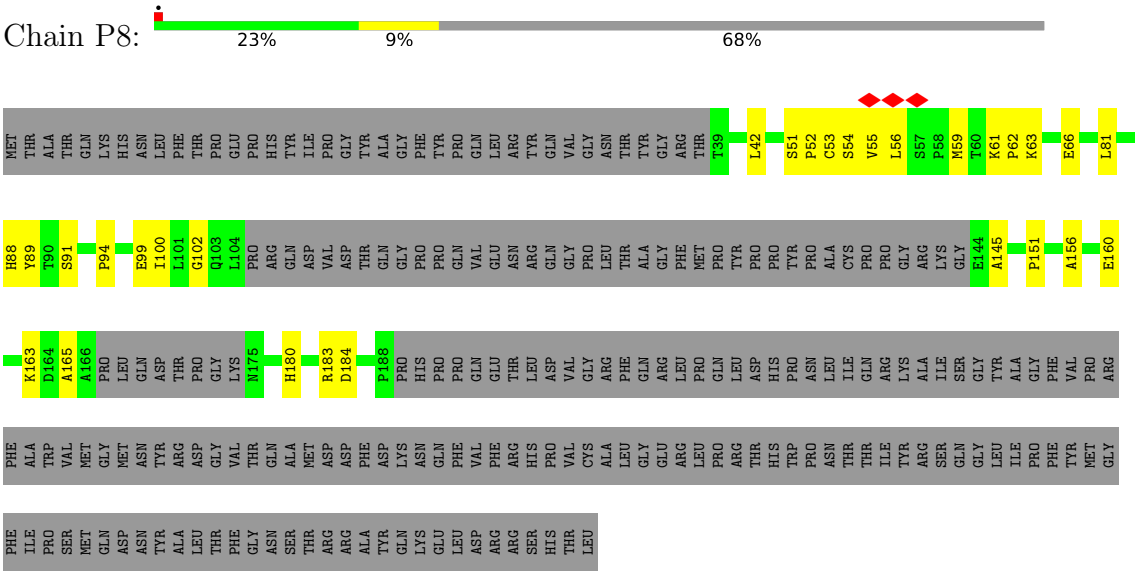
• Molecule 17: Protein FAM166A

Chain O9:



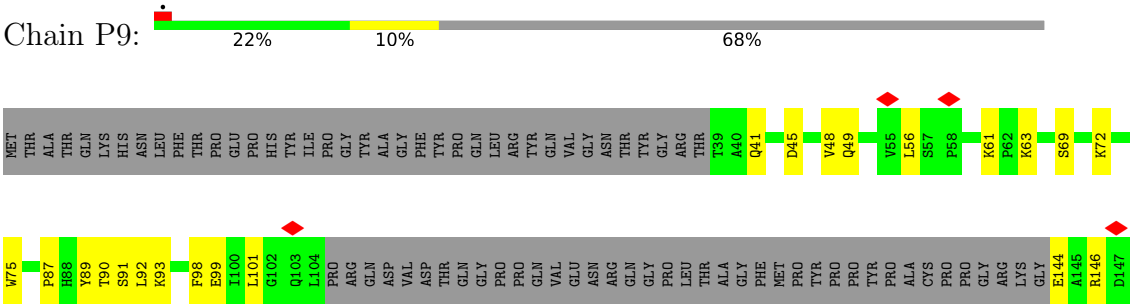
• Molecule 17: Protein FAM166A

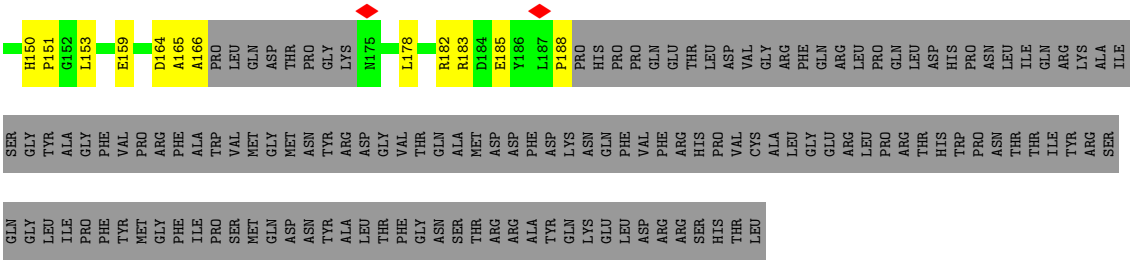
Chain P8:



• Molecule 17: Protein FAM166A

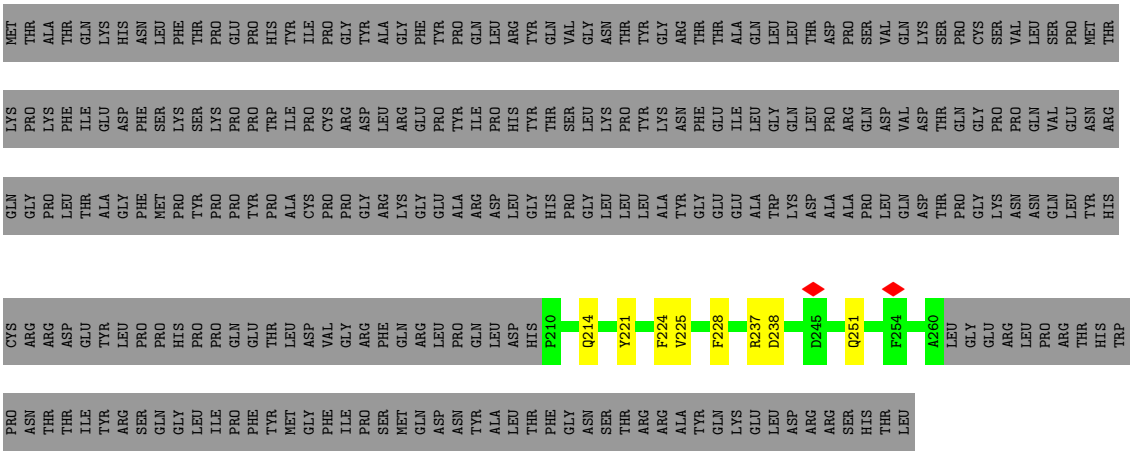
Chain P9:





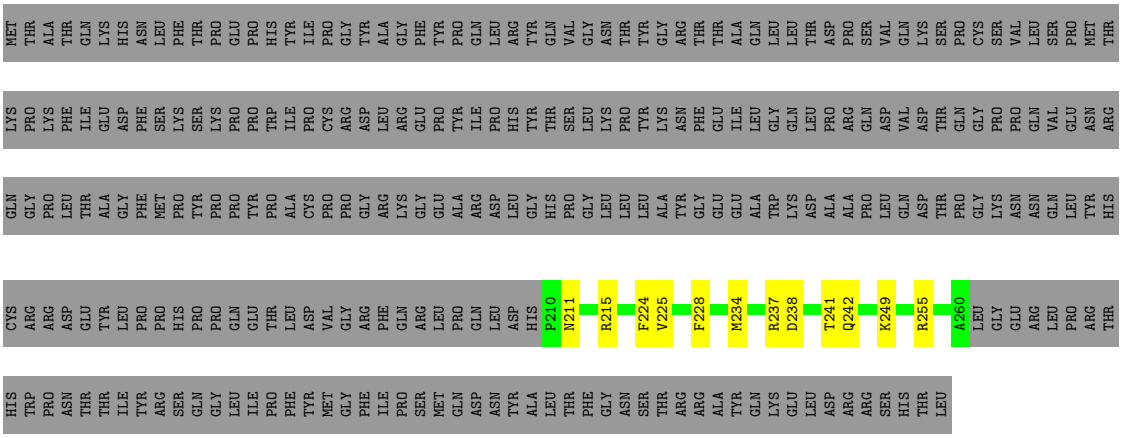
• Molecule 17: Protein FAM166A

Chain Z2:



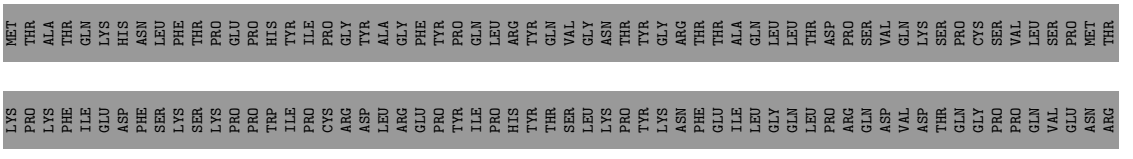
• Molecule 17: Protein FAM166A

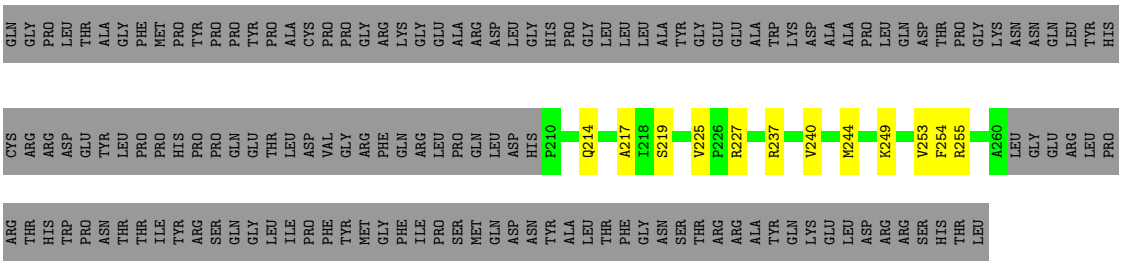
Chain Z3:



• Molecule 17: Protein FAM166A

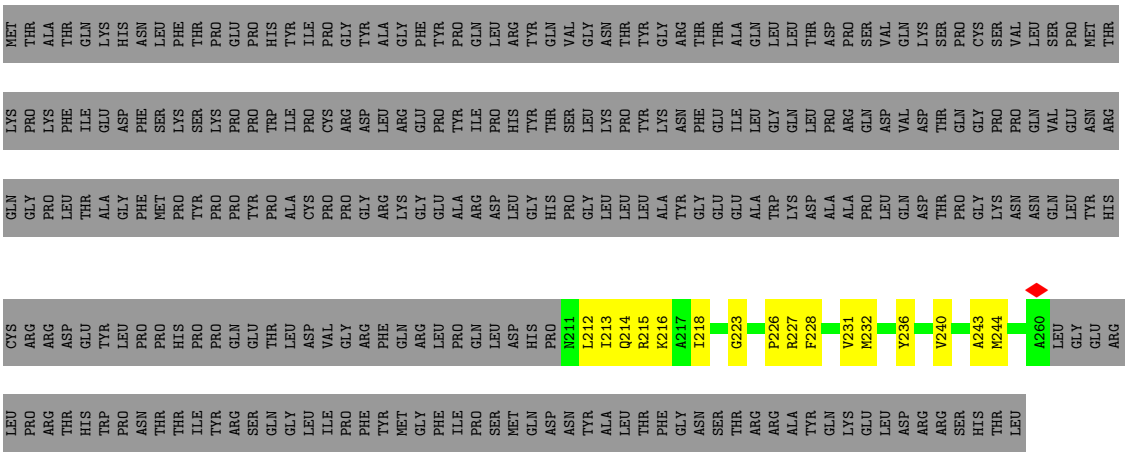
Chain Z4:





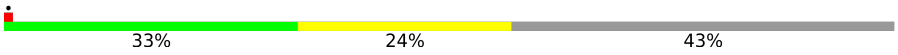
• Molecule 17: Protein FAM166A

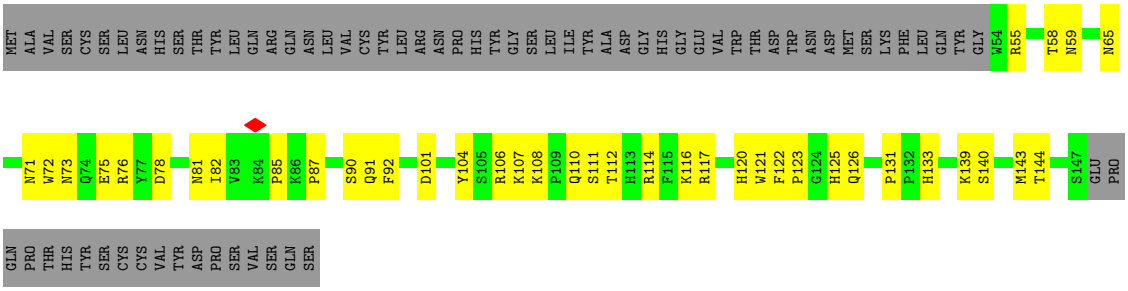
Chain Z5:



• Molecule 18: Cilia- and flagella-associated protein 68

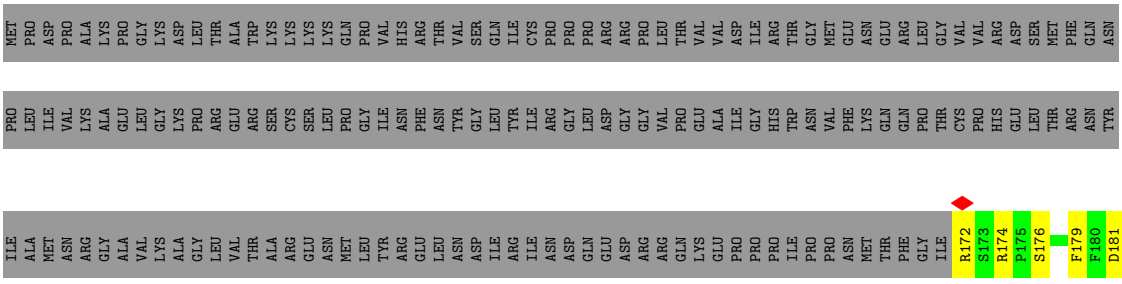
Chain I1:

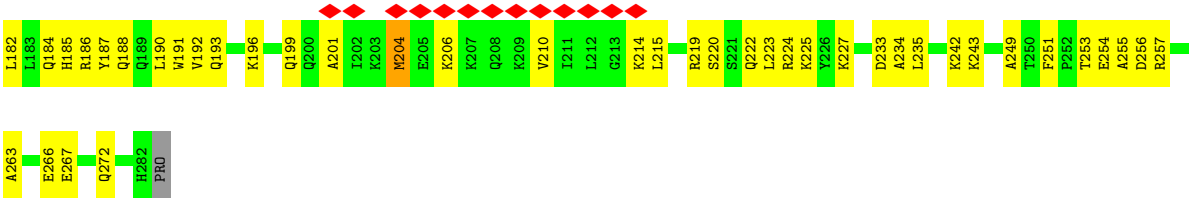




• Molecule 19: Cilia and flagella-associated protein 77

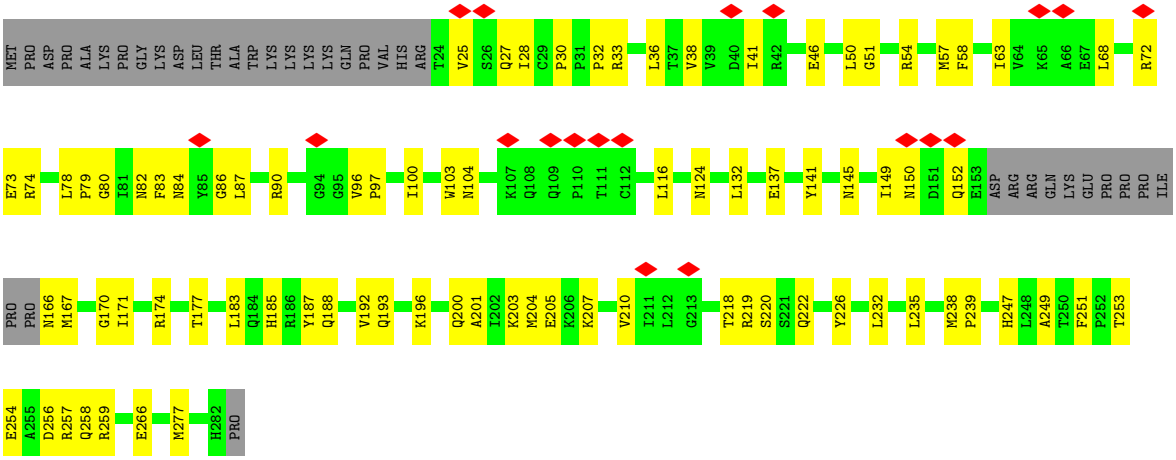
Chain J1:





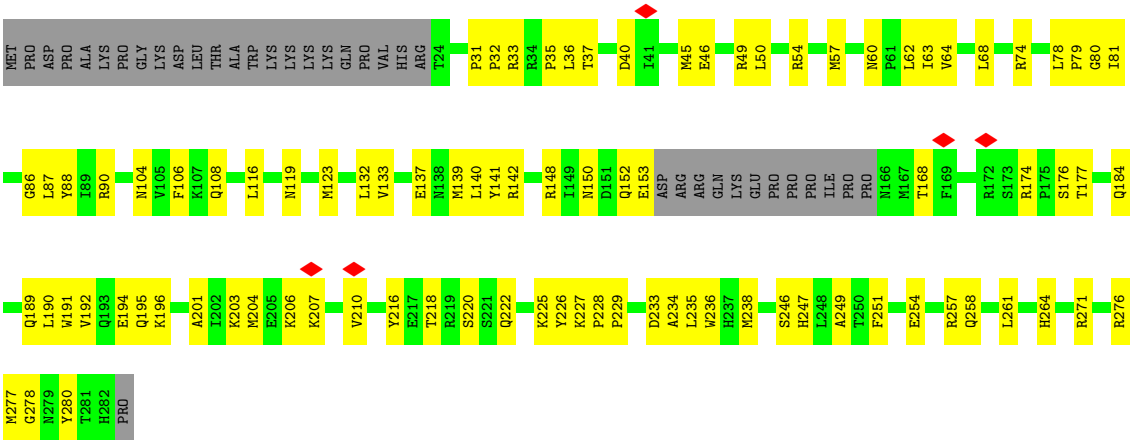
• Molecule 19: Cilia and flagella-associated protein 77

Chain J2:



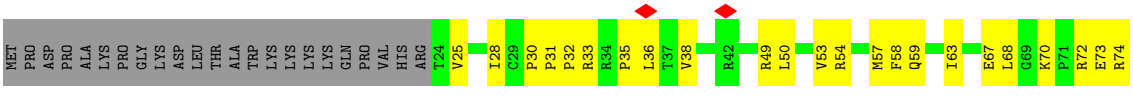
• Molecule 19: Cilia and flagella-associated protein 77

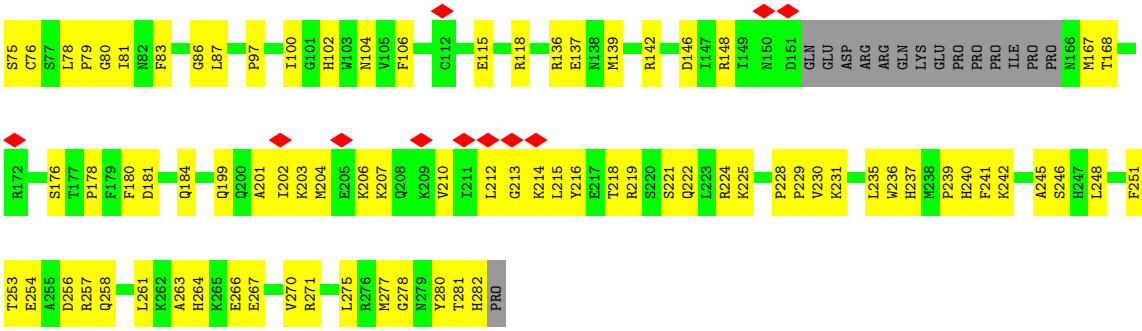
Chain J3:



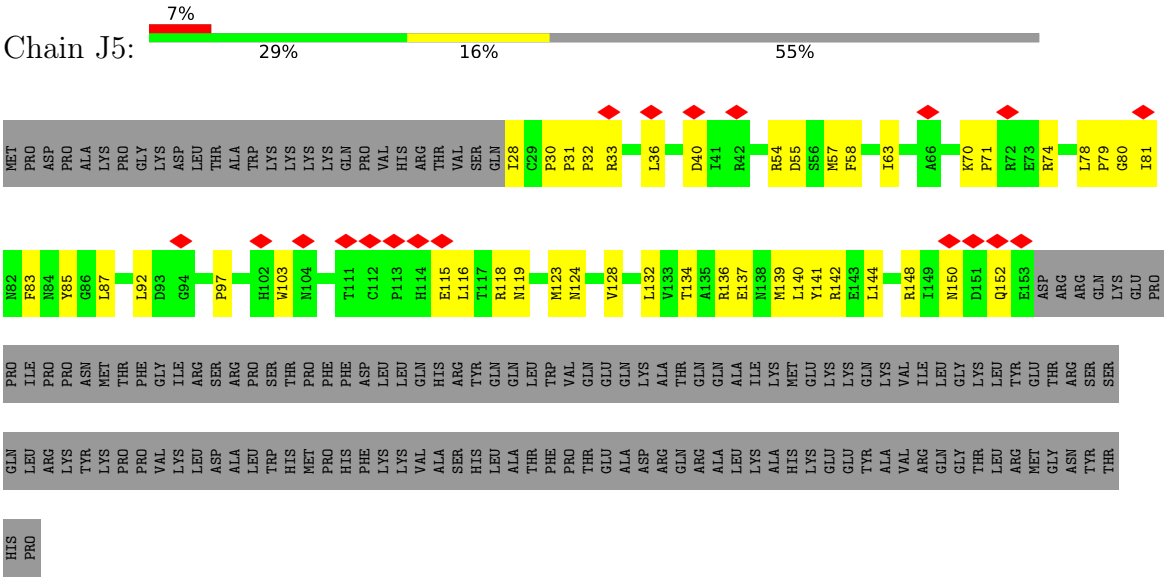
• Molecule 19: Cilia and flagella-associated protein 77

Chain J4:

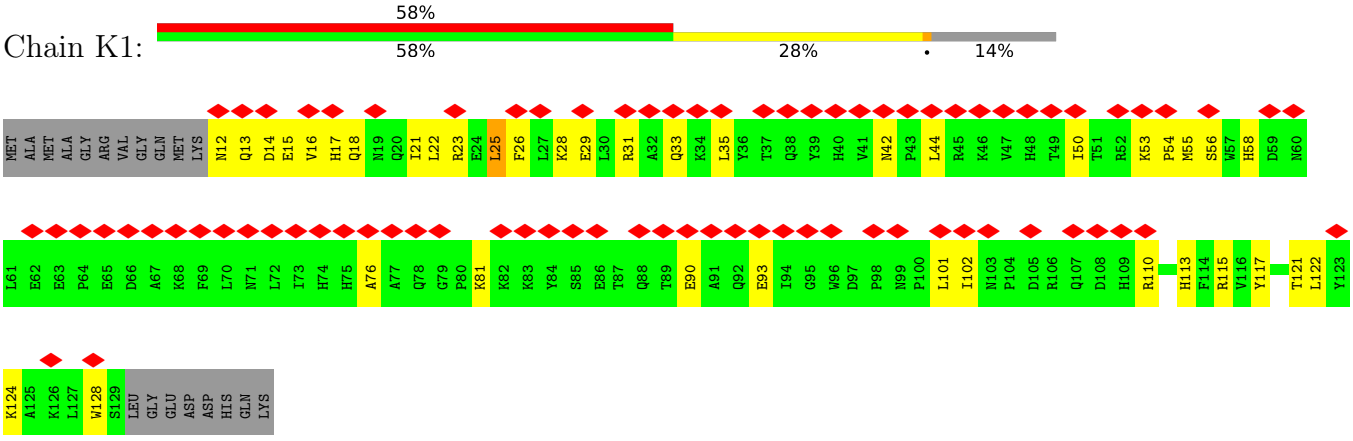




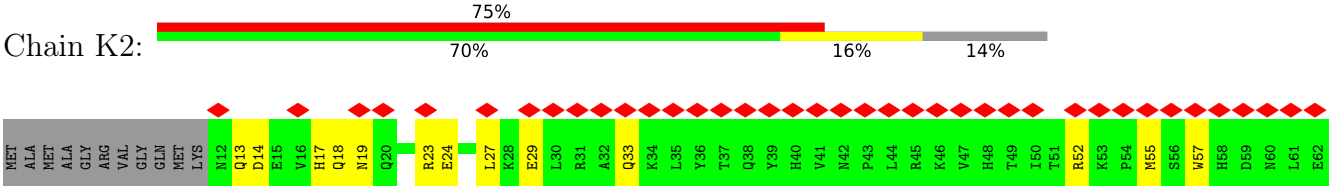
• Molecule 19: Cilia and flagella-associated protein 77



• Molecule 20: Family with sequence similarity 183, member B

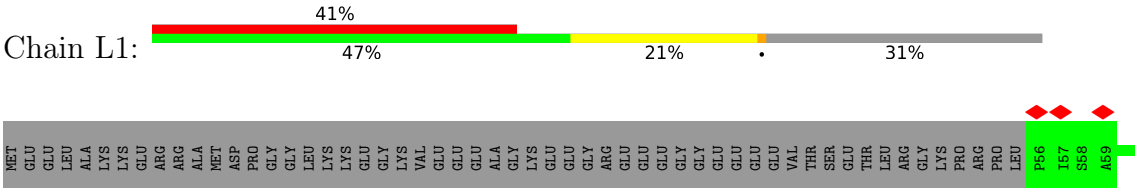


• Molecule 20: Family with sequence similarity 183, member B



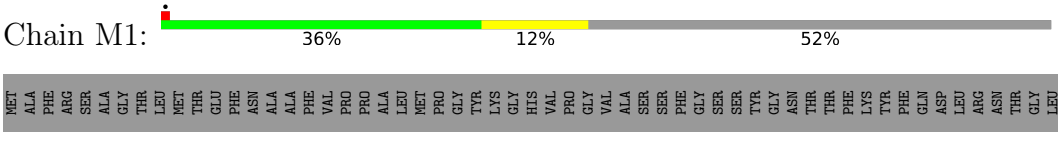
• Molecule 21: Cilia- and flagella-associated protein 90

Chain L1:



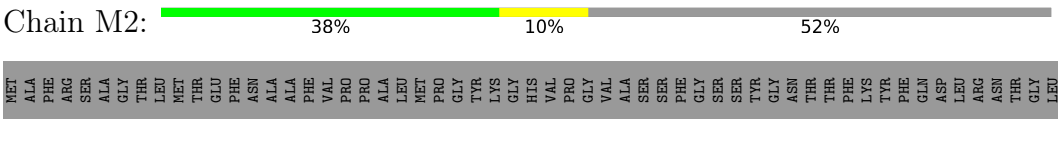
• Molecule 22: Protein FAM166C

Chain M1:



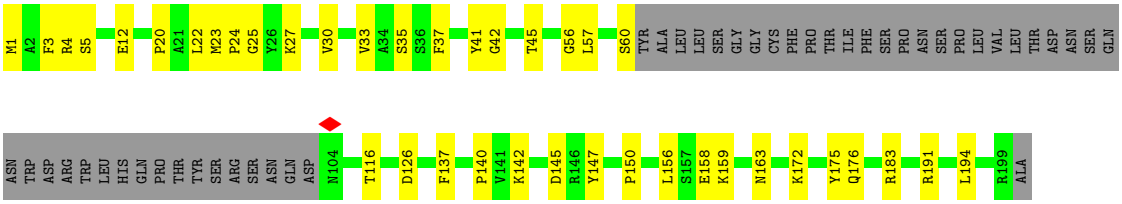
• Molecule 22: Protein FAM166C

Chain M2:



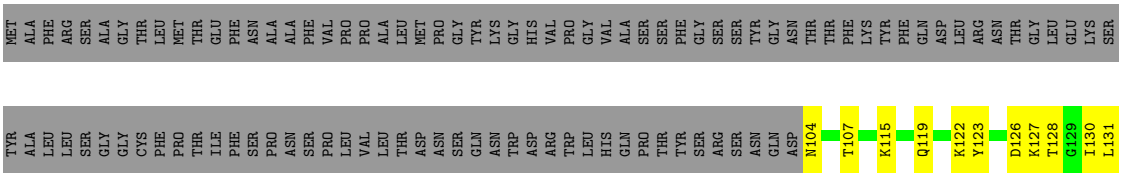
• Molecule 22: Protein FAM166C

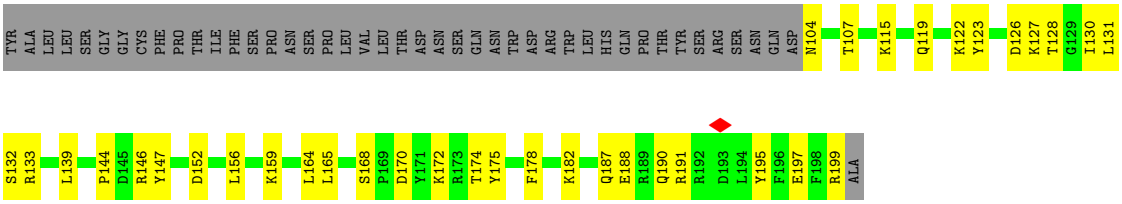
Chain M3:



• Molecule 22: Protein FAM166C

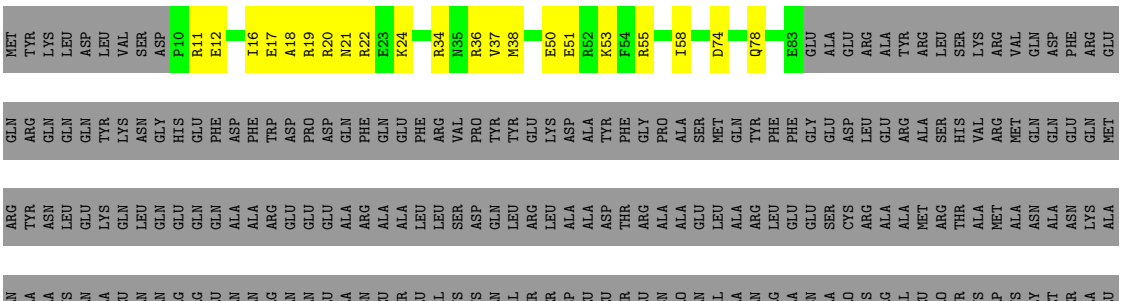
Chain M4:





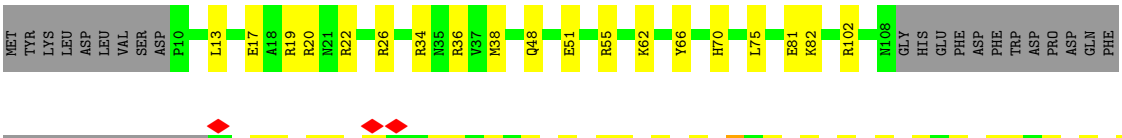
• Molecule 23: RIB43A-like with coiled-coils protein 1

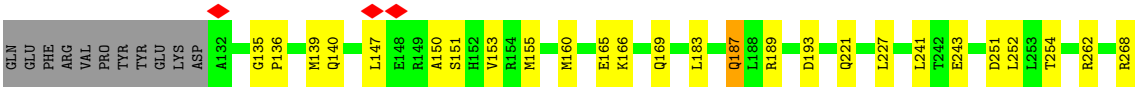
Chain O:

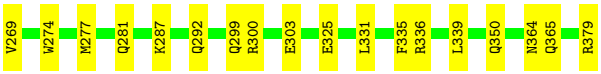


• Molecule 23: RIB43A-like with coiled-coils protein 1

Chain P:

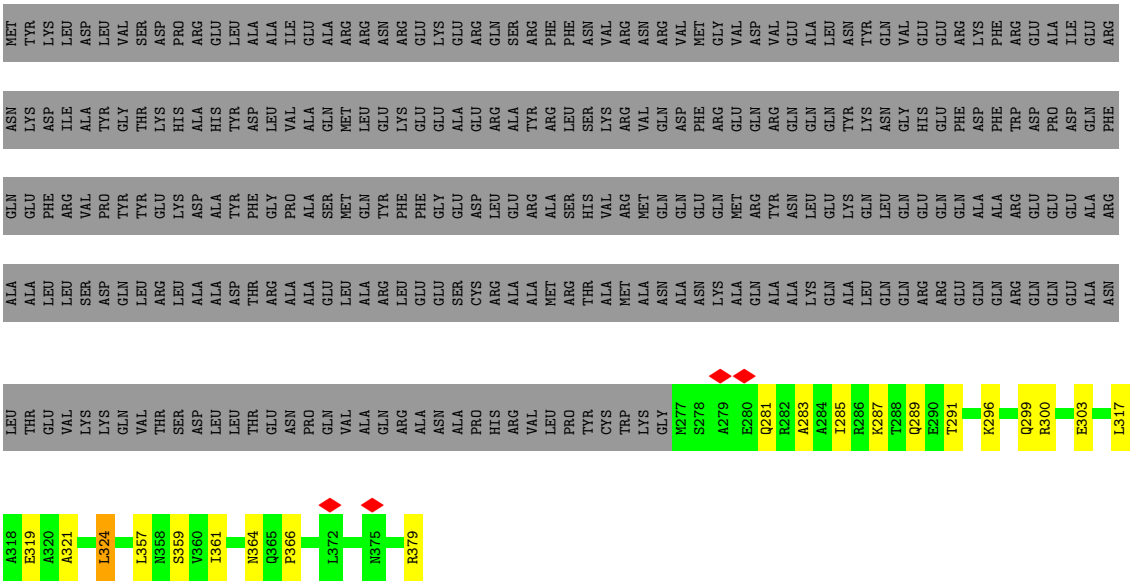






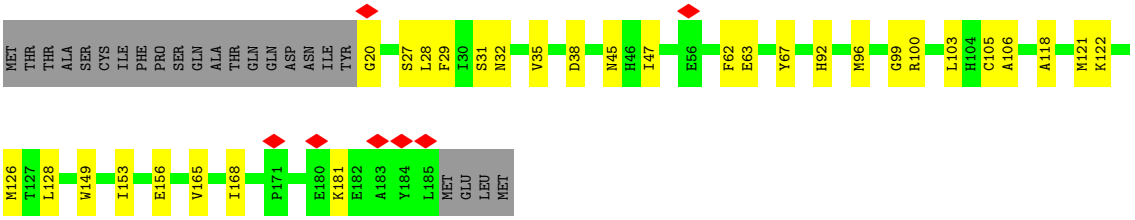
• Molecule 23: RIB43A-like with coiled-coils protein 1

Chain Q:



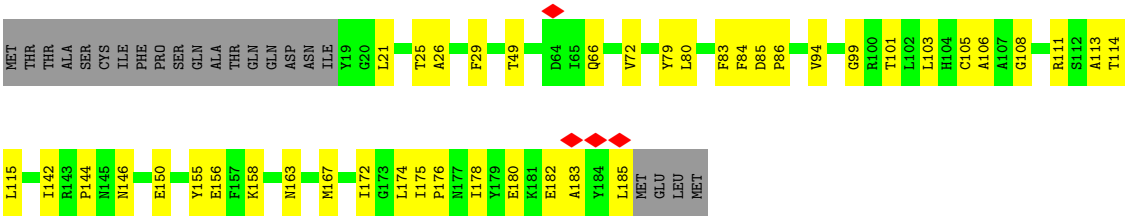
• Molecule 24: Dual specificity phosphatase 21

Chain O1:



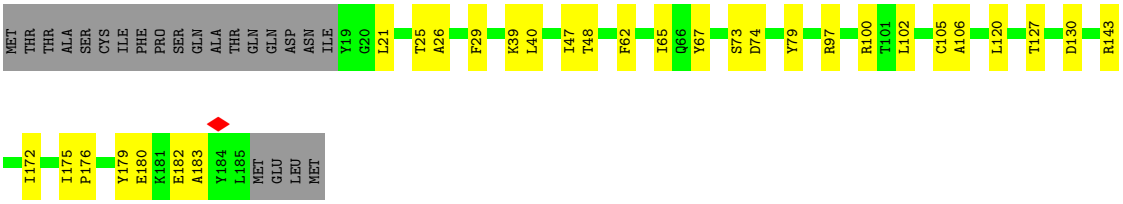
• Molecule 24: Dual specificity phosphatase 21

Chain O2:



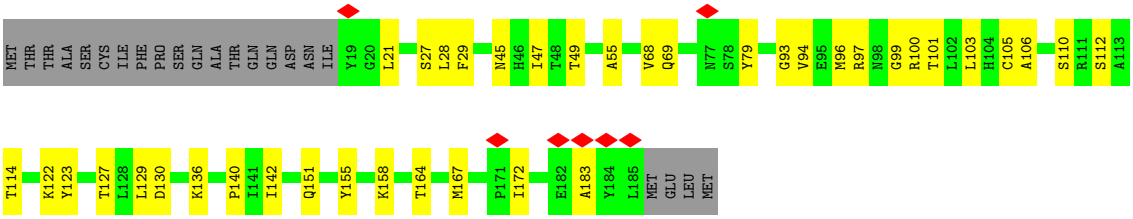
• Molecule 24: Dual specificity phosphatase 21

Chain O3:



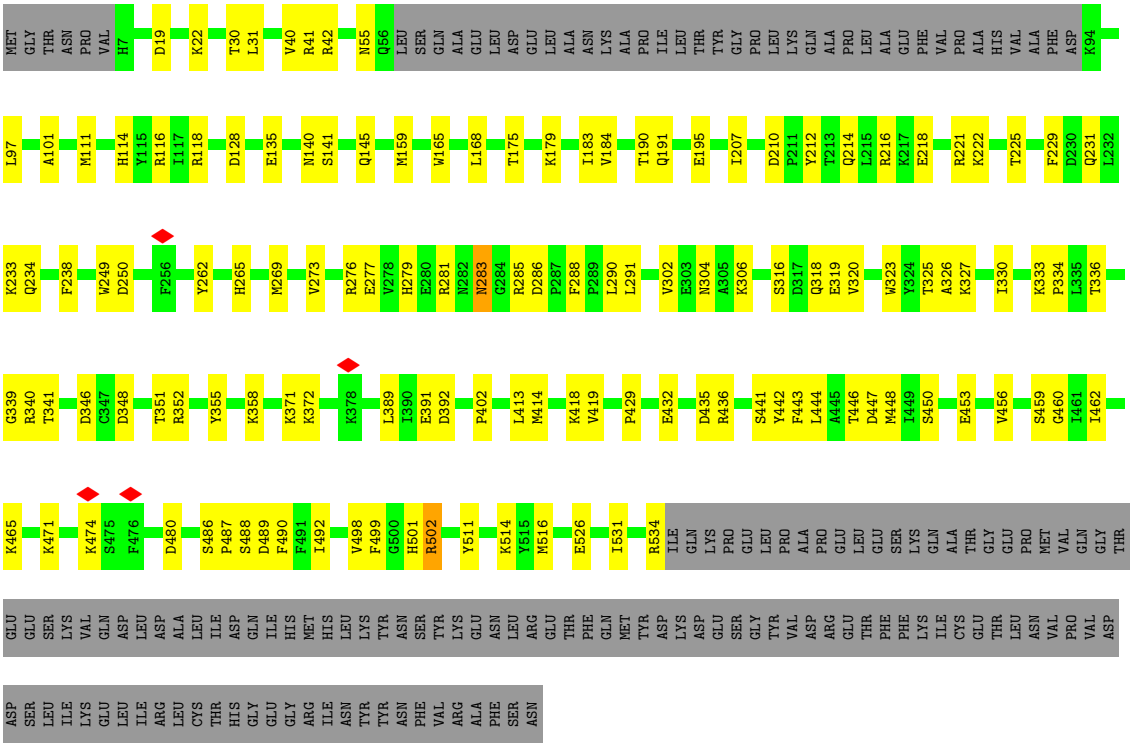
• Molecule 24: Dual specificity phosphatase 21

Chain O4:



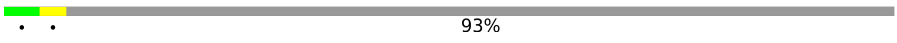
• Molecule 25: EF-hand domain-containing protein 1

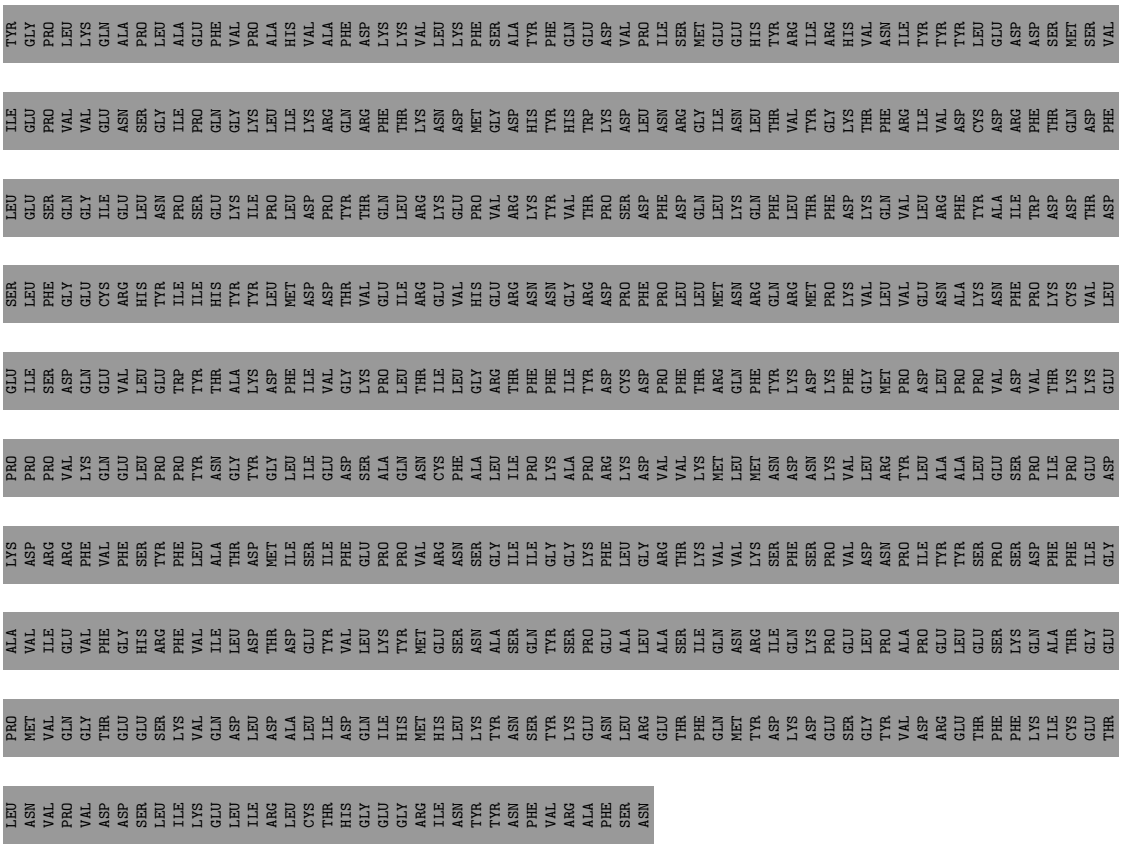
Chain O5:



• Molecule 25: EF-hand domain-containing protein 1

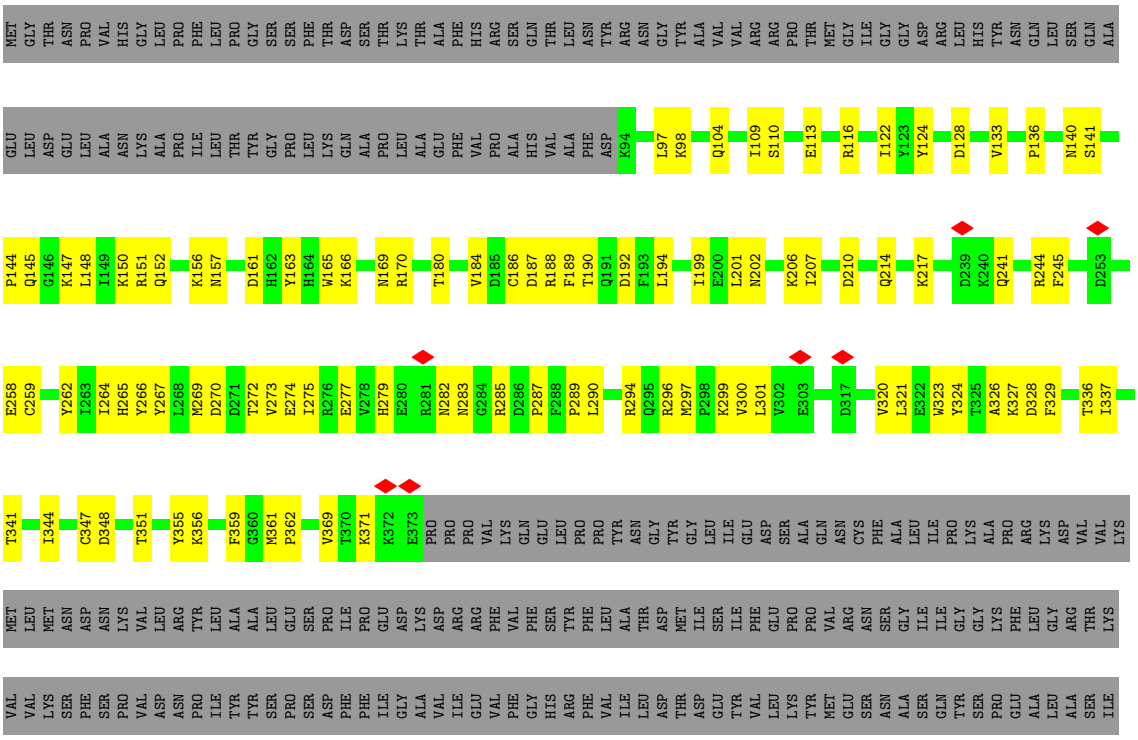
Chain O6:

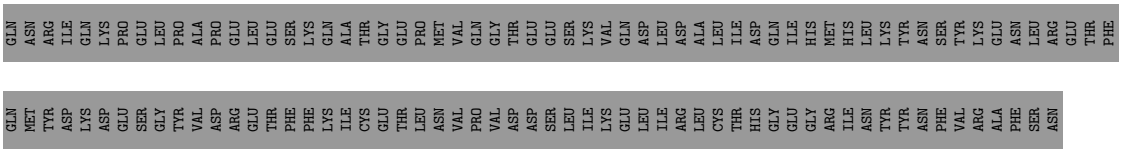




• Molecule 25: EF-hand domain-containing protein 1

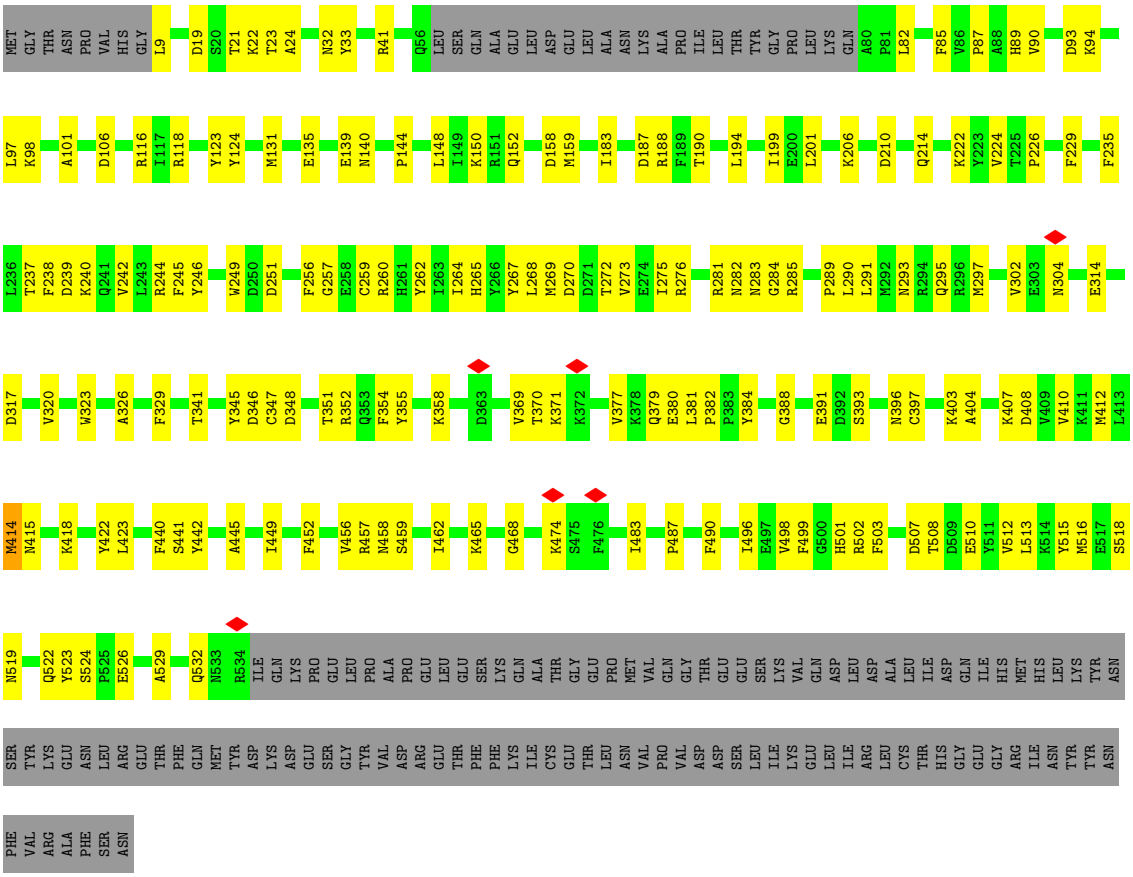
Chain T:





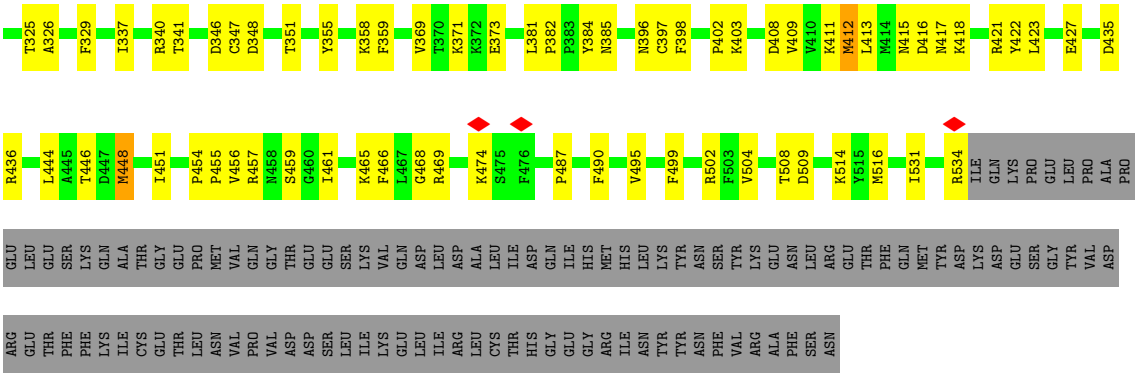
• Molecule 25: EF-hand domain-containing protein 1

Chain U:



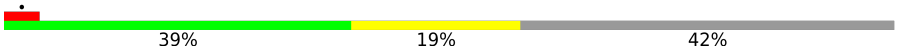
• Molecule 25: EF-hand domain-containing protein 1

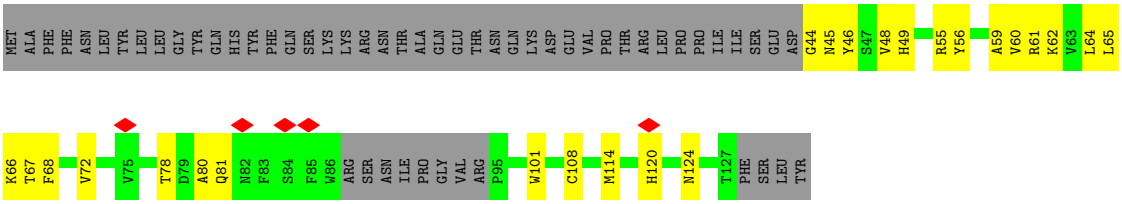
Chain V:



• Molecule 26: Testis expressed 49

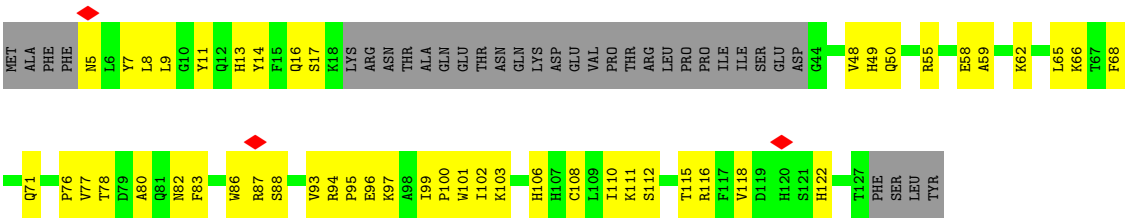
Chain P1:





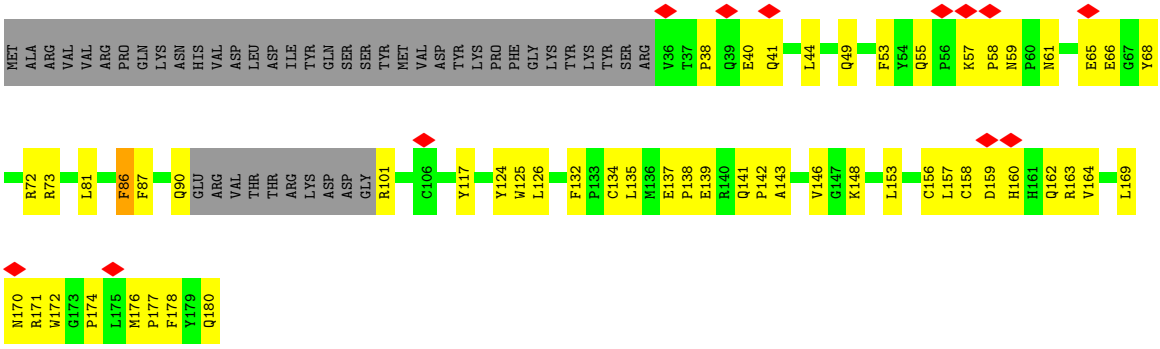
• Molecule 26: Testis expressed 49

Chain P2:



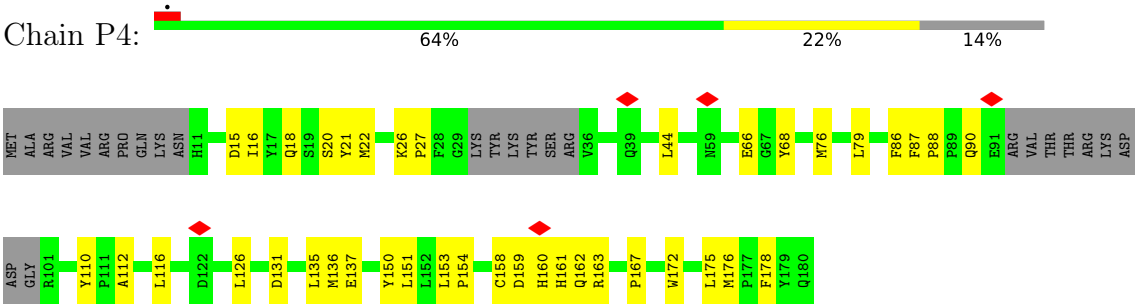
• Molecule 27: Testis-expressed sequence 37 protein

Chain P3:



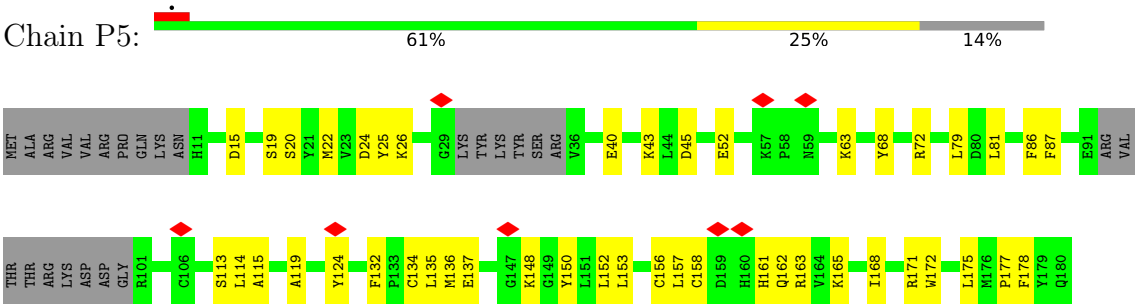
• Molecule 27: Testis-expressed sequence 37 protein

Chain P4:



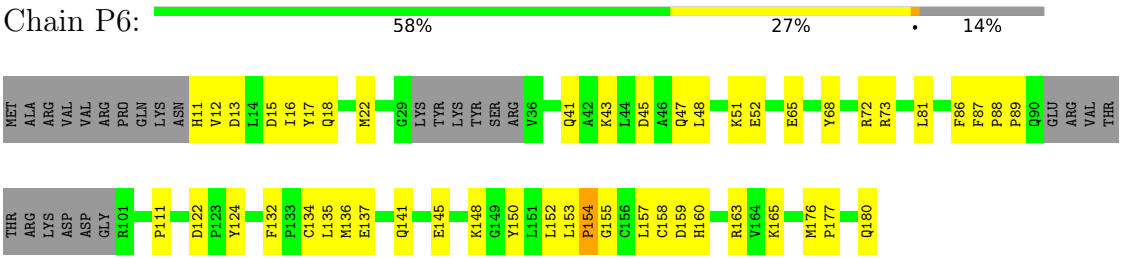
• Molecule 27: Testis-expressed sequence 37 protein

Chain P5:



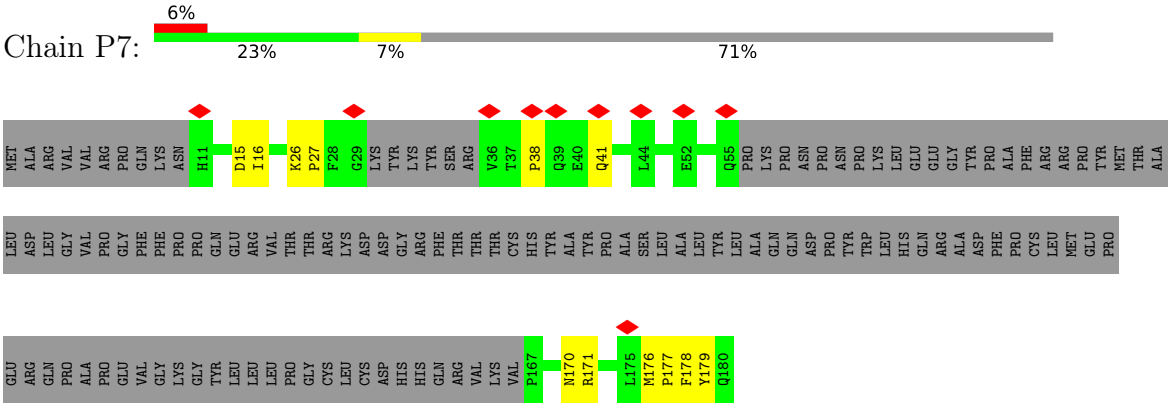
• Molecule 27: Testis-expressed sequence 37 protein

Chain P6:



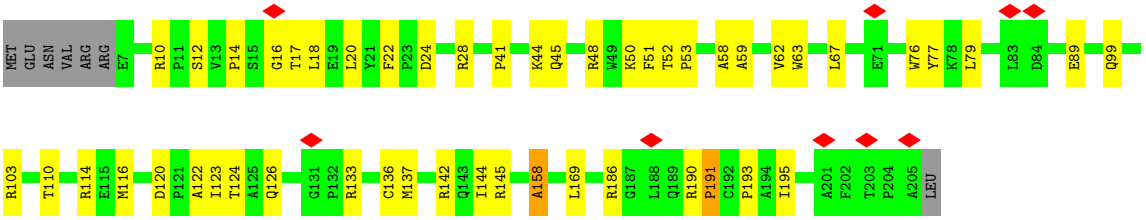
• Molecule 27: Testis-expressed sequence 37 protein

Chain P7:



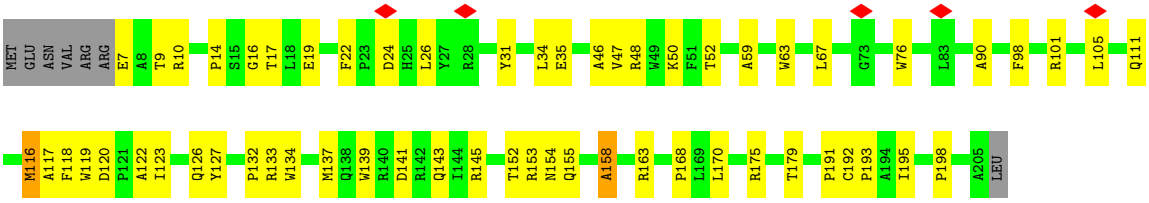
• Molecule 28: Tektin bundle-interacting protein 1

Chain Q1:



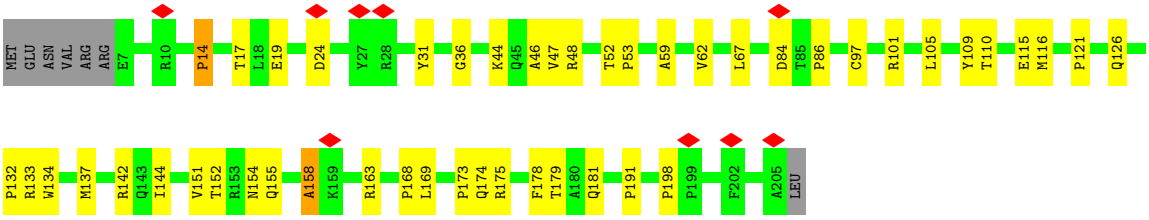
• Molecule 28: Tektin bundle-interacting protein 1

Chain Q2:



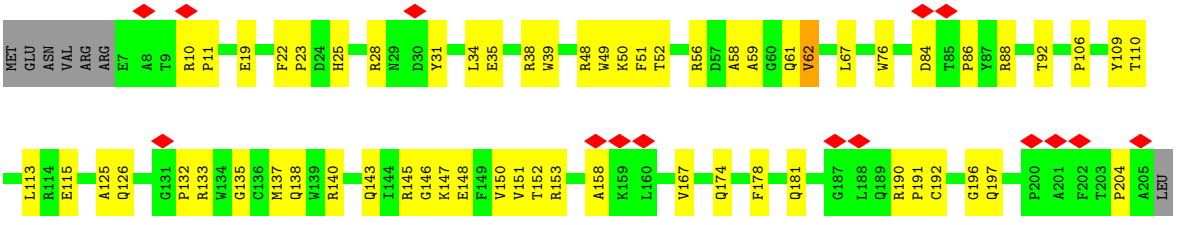
• Molecule 28: Tektin bundle-interacting protein 1

Chain Q3:



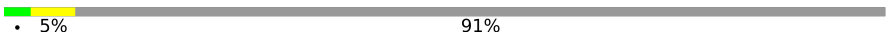
• Molecule 28: Tektin bundle-interacting protein 1

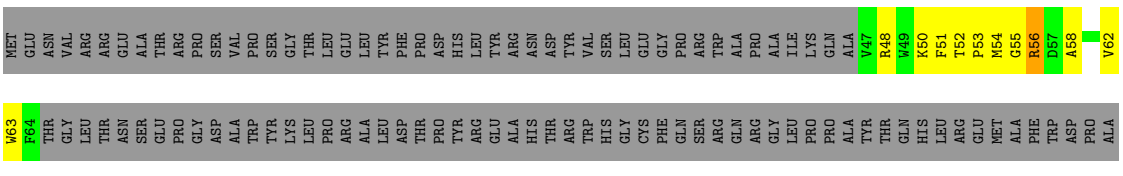
Chain Q4:



• Molecule 28: Tektin bundle-interacting protein 1

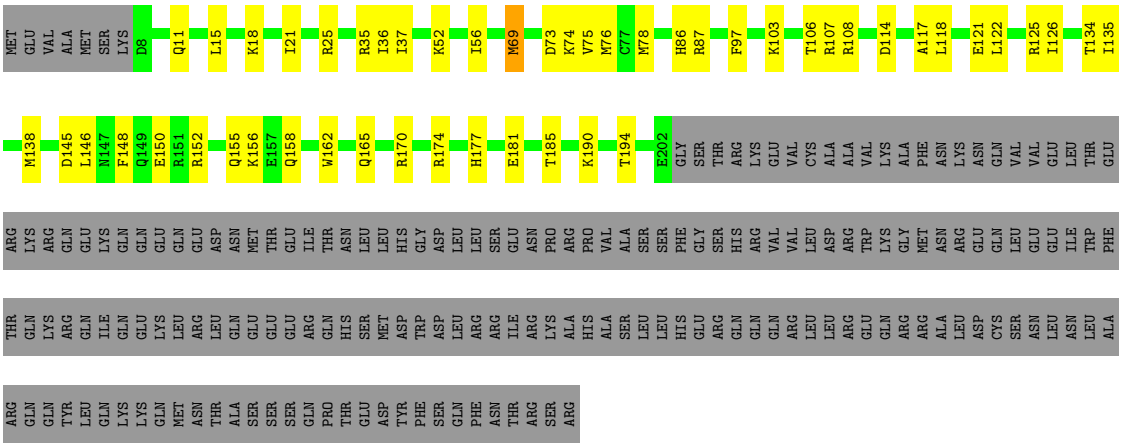
Chain Q5:





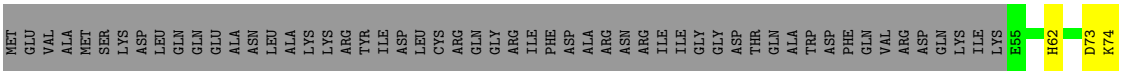
• Molecule 29: RIB43A-like with coiled-coils protein 2

Chain R:



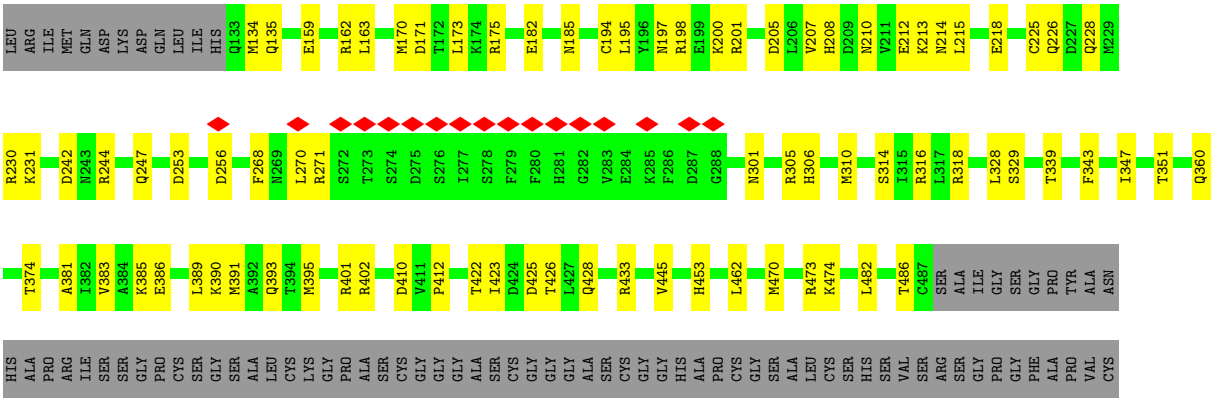
• Molecule 29: RIB43A-like with coiled-coils protein 2

Chain S:



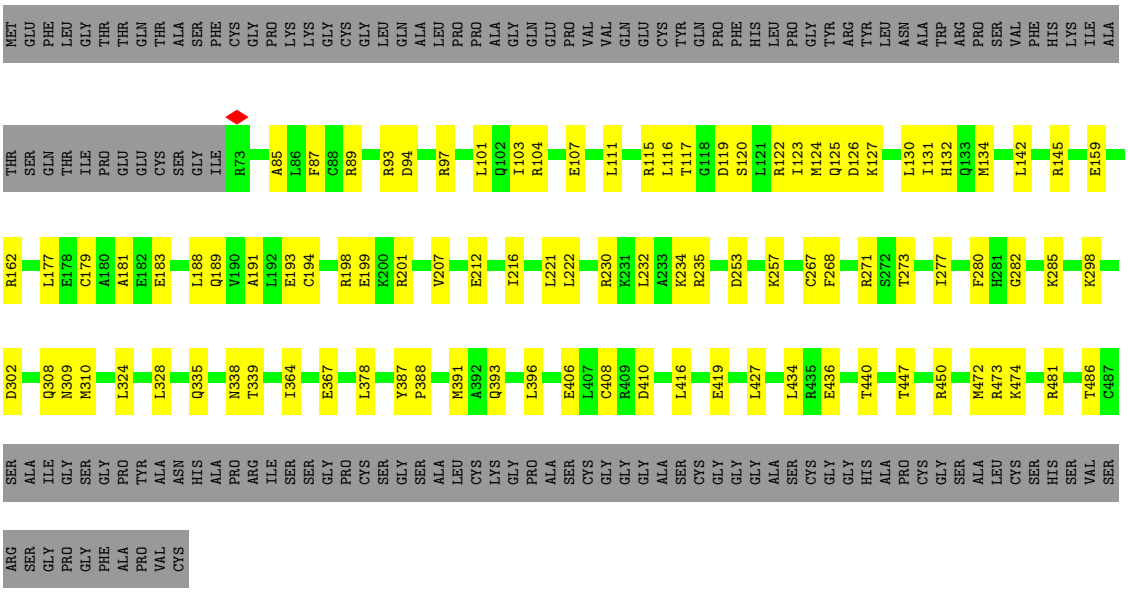
• Molecule 30: Tektin-5

Chain U0:



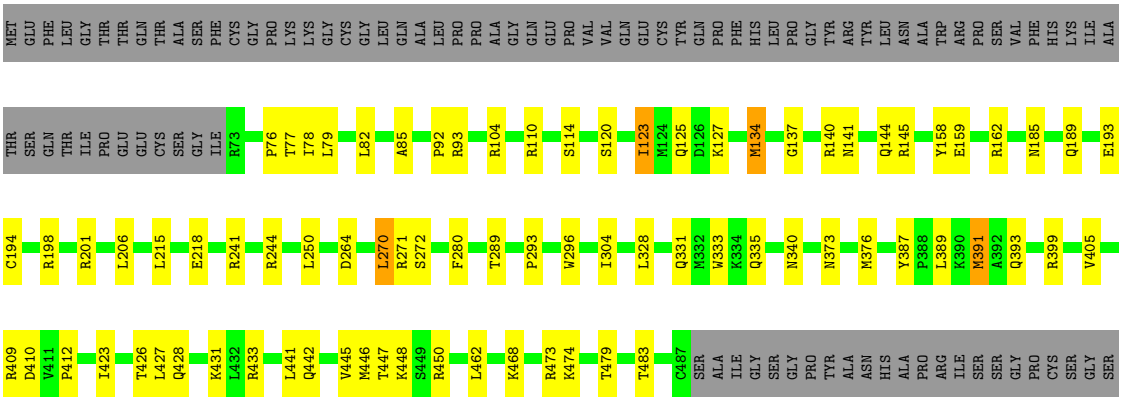
• Molecule 30: Tektin-5

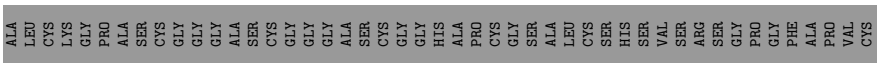
Chain U1:



• Molecule 30: Tektin-5

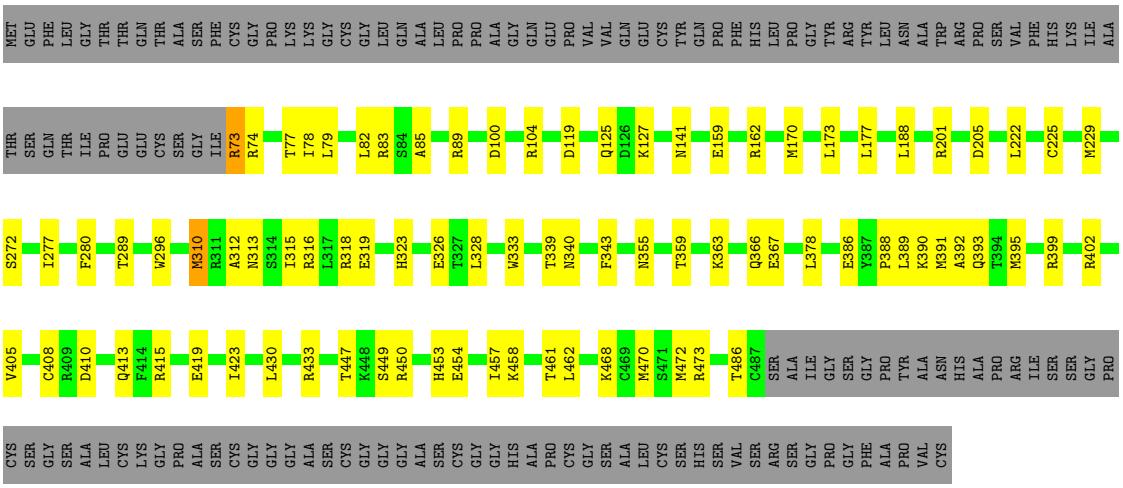
Chain U2:





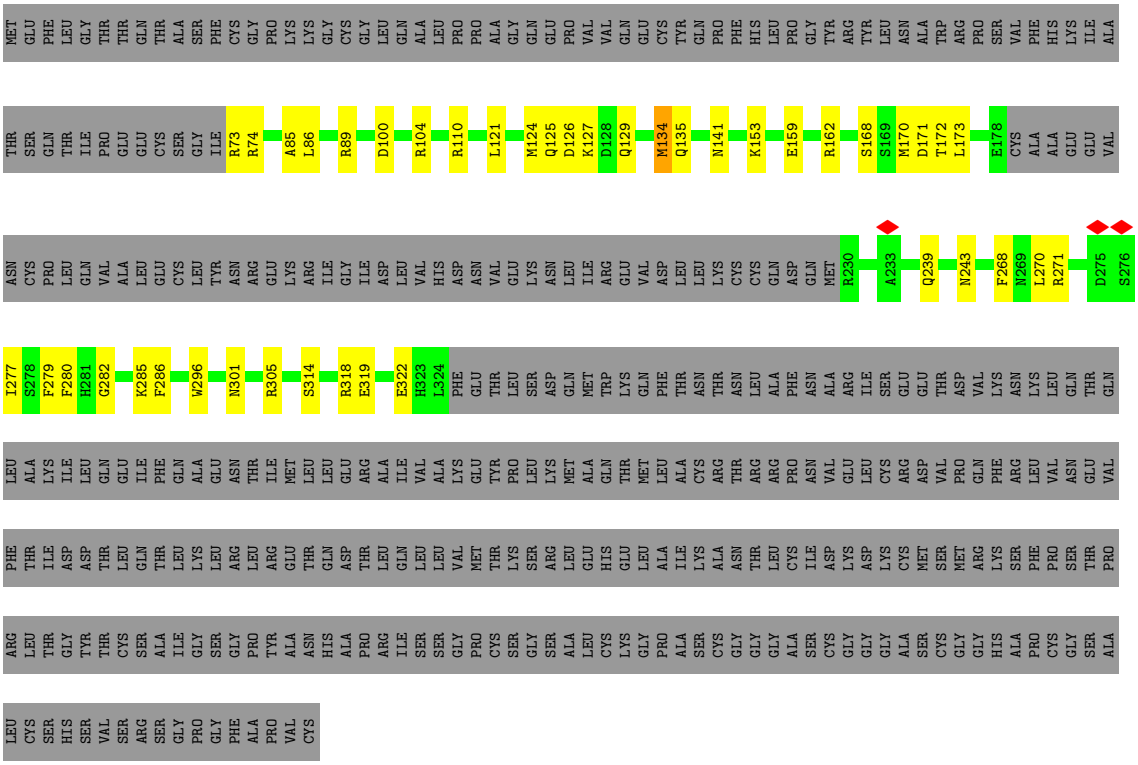
• Molecule 30: Tektin-5

Chain U3:



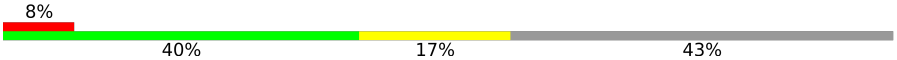
• Molecule 30: Tektin-5

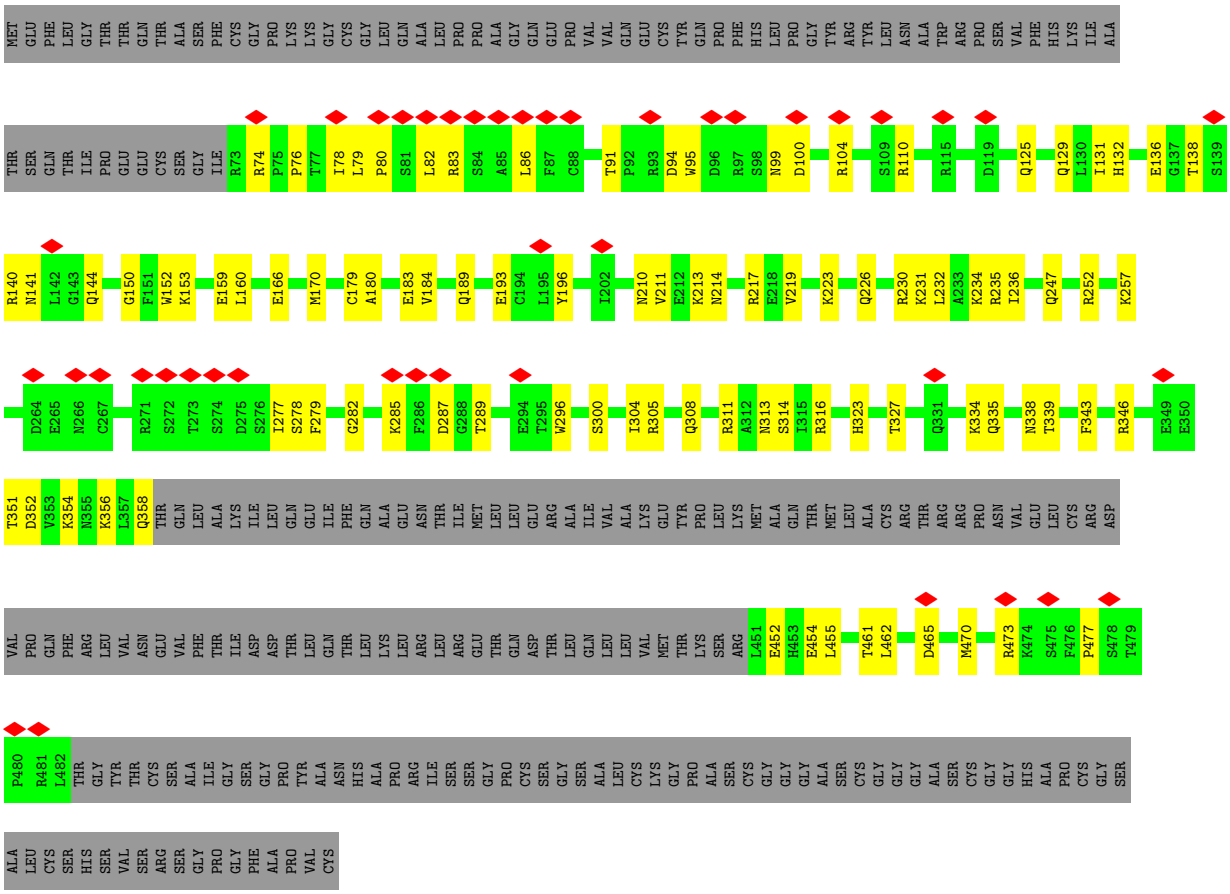
Chain U4:



• Molecule 30: Tektin-5

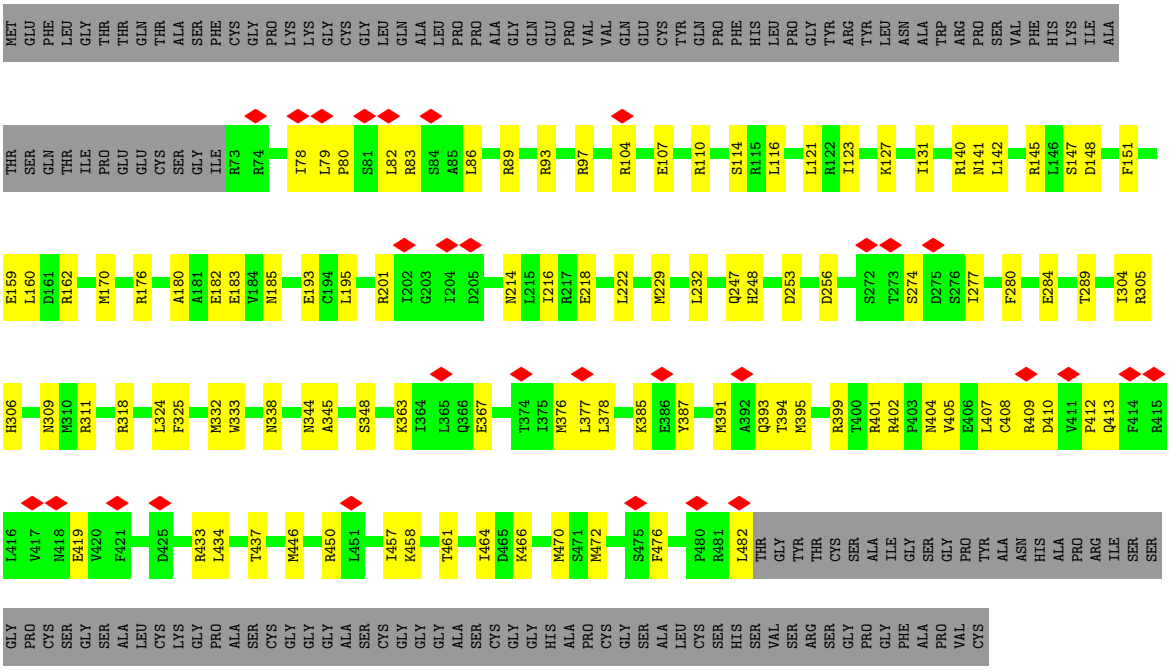
Chain U5:





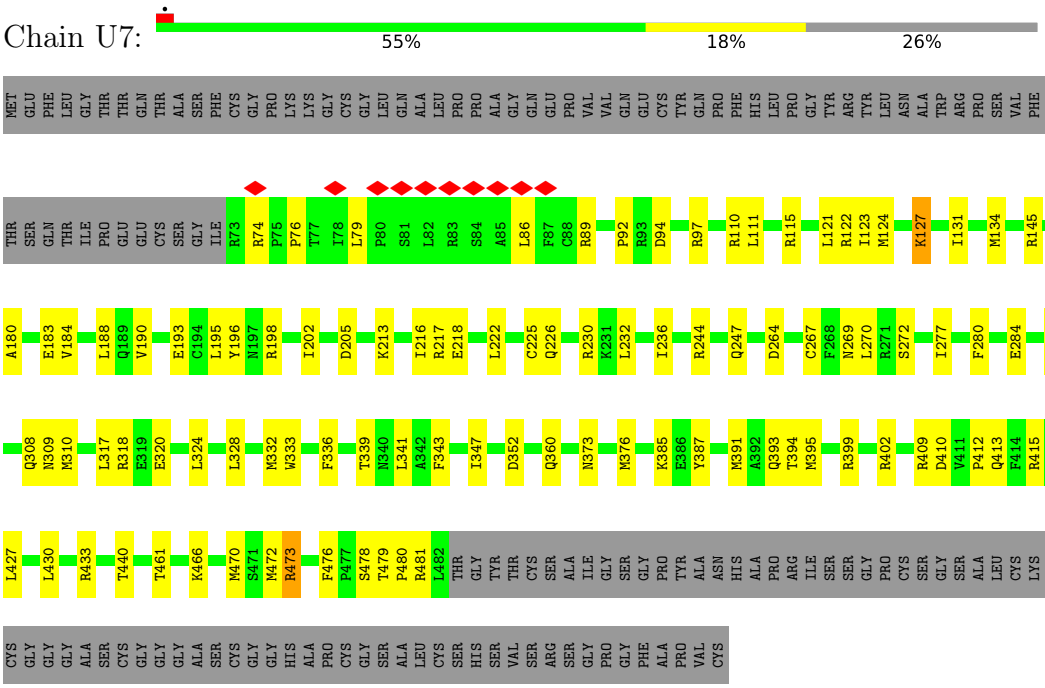
• Molecule 30: Tektin-5

Chain U6:



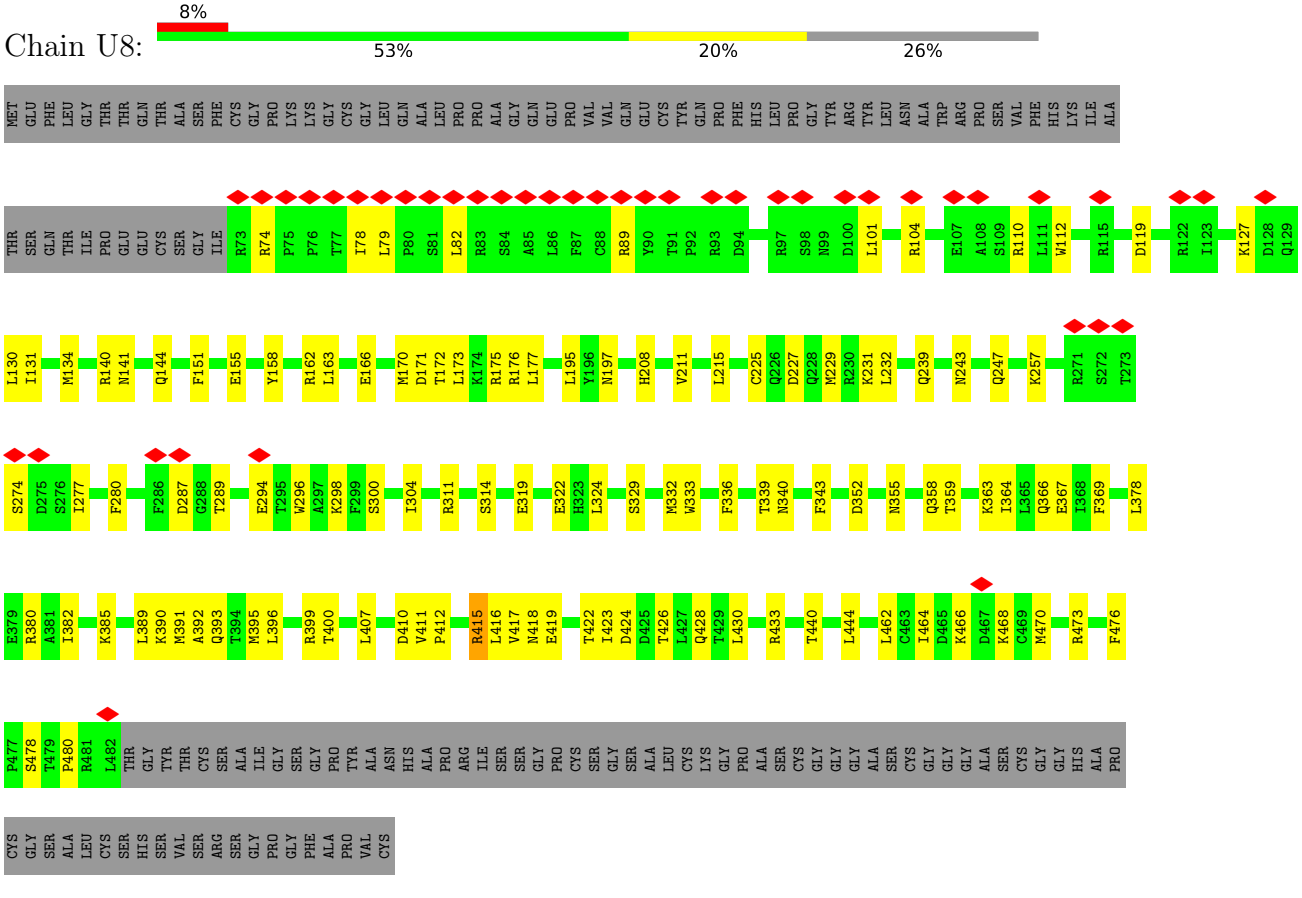
• Molecule 30: Tektin-5

Chain U7:



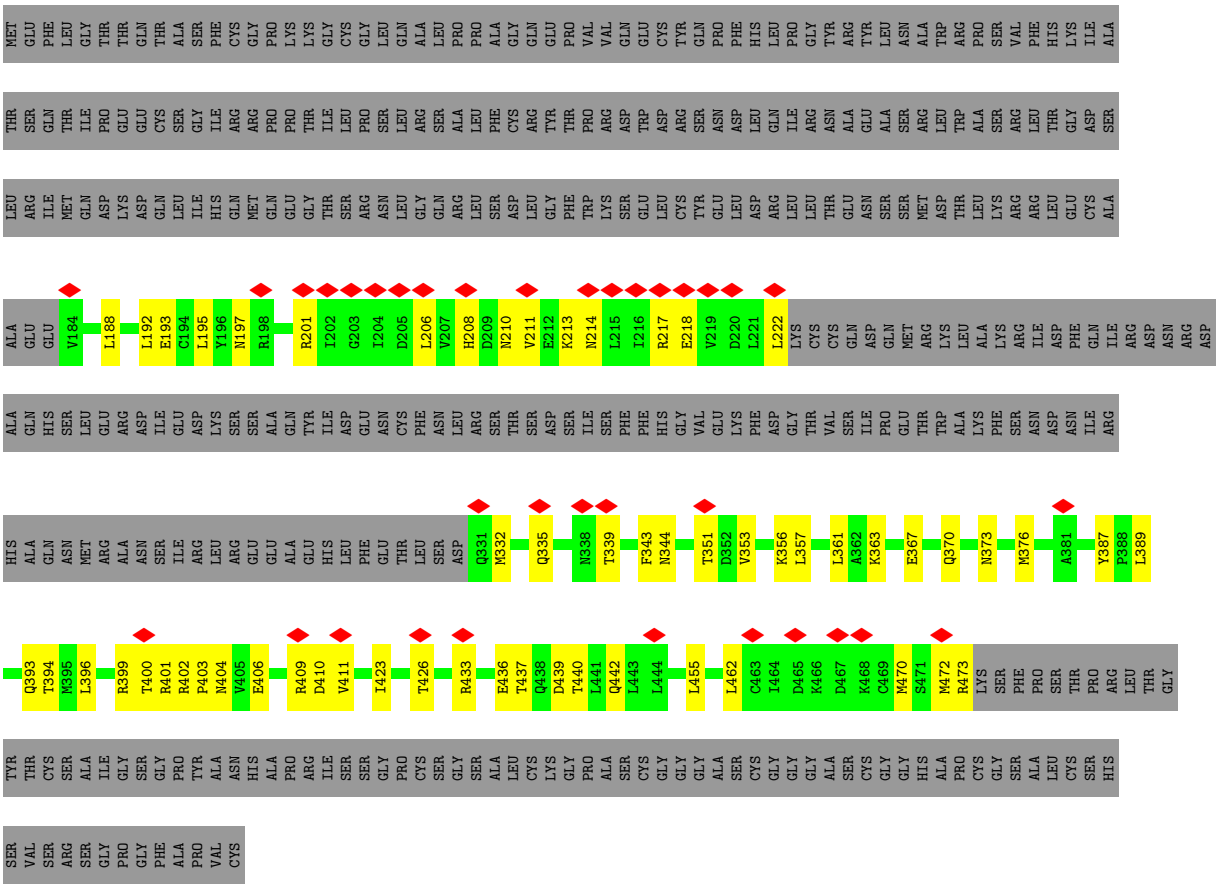
• Molecule 30: Tektin-5

Chain U8:

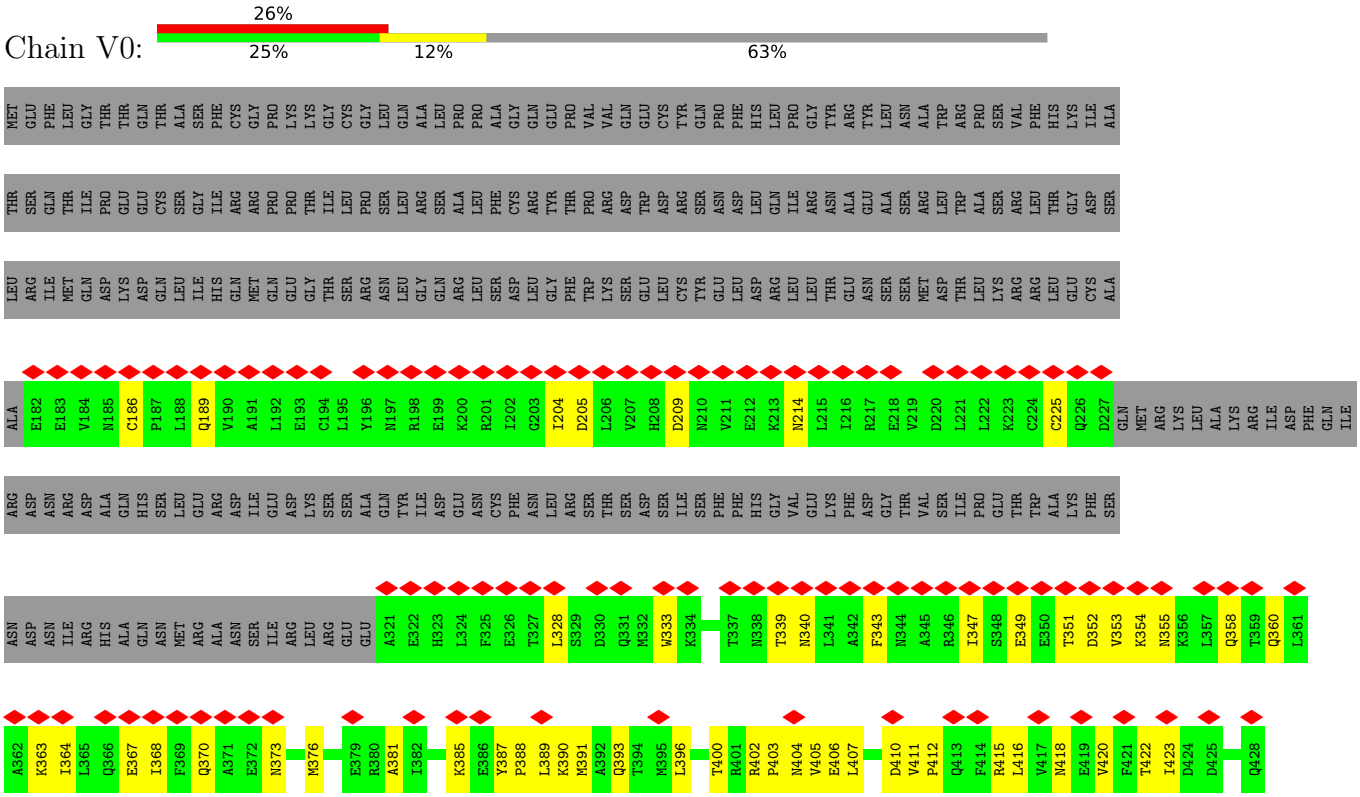


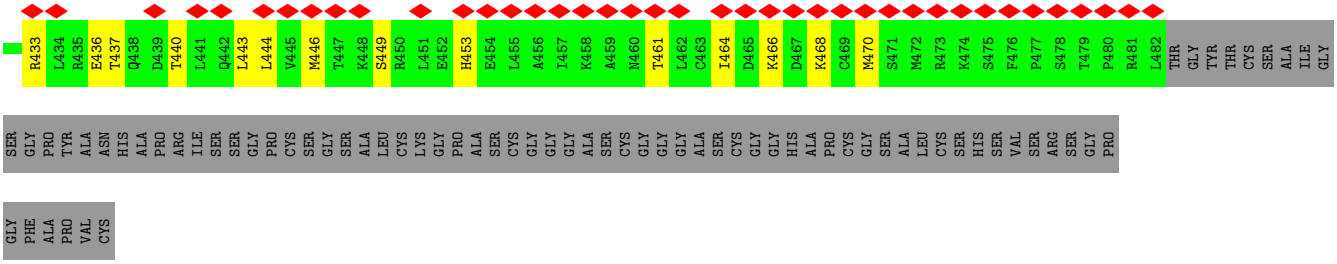
• Molecule 30: Tektin-5

Chain U9:



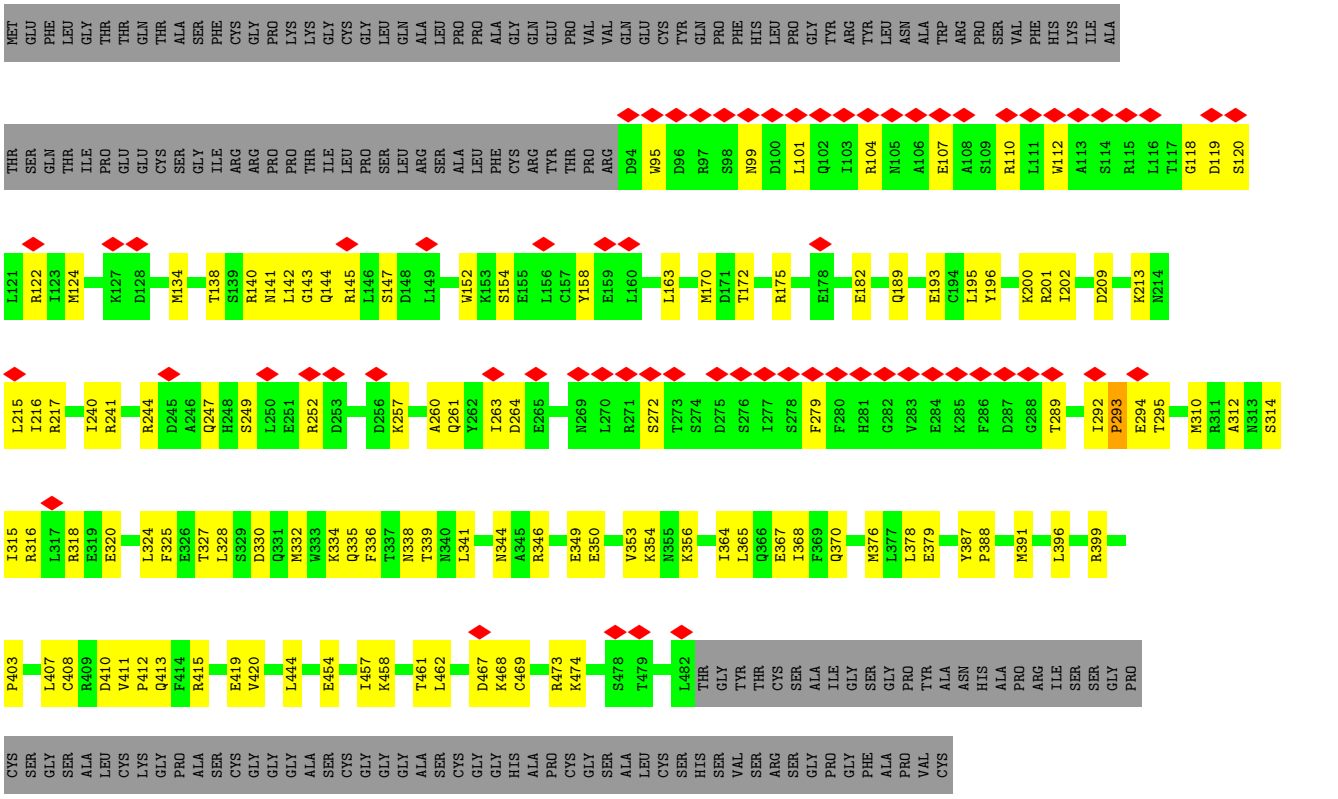
• Molecule 30: Tektin-5





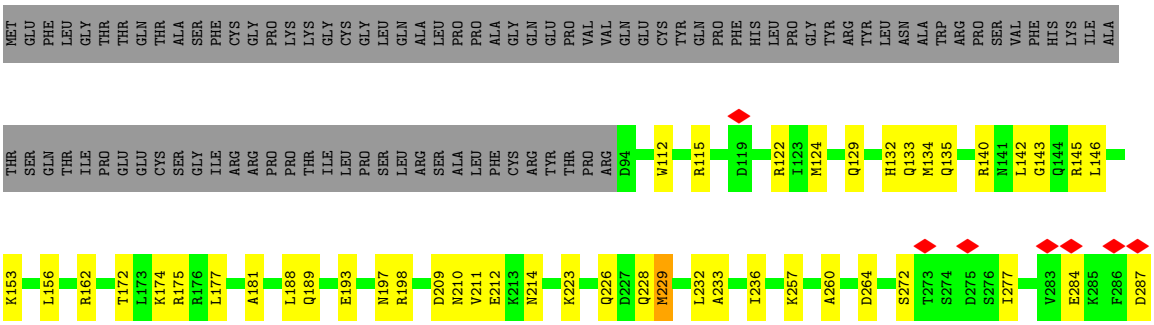
• Molecule 30: Tektin-5

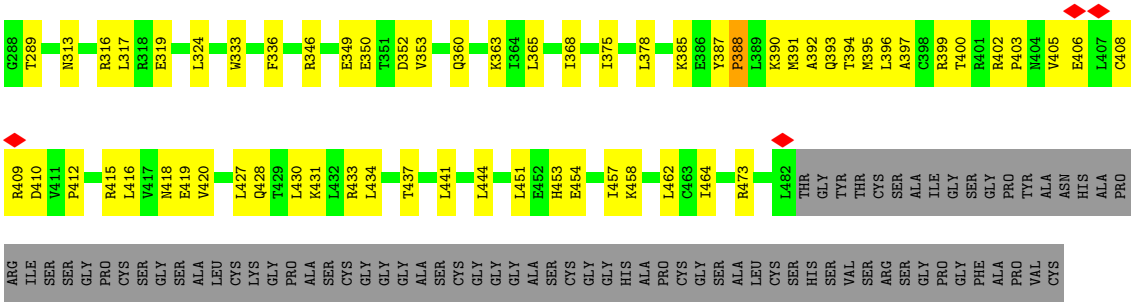
Chain V1:



• Molecule 30: Tektin-5

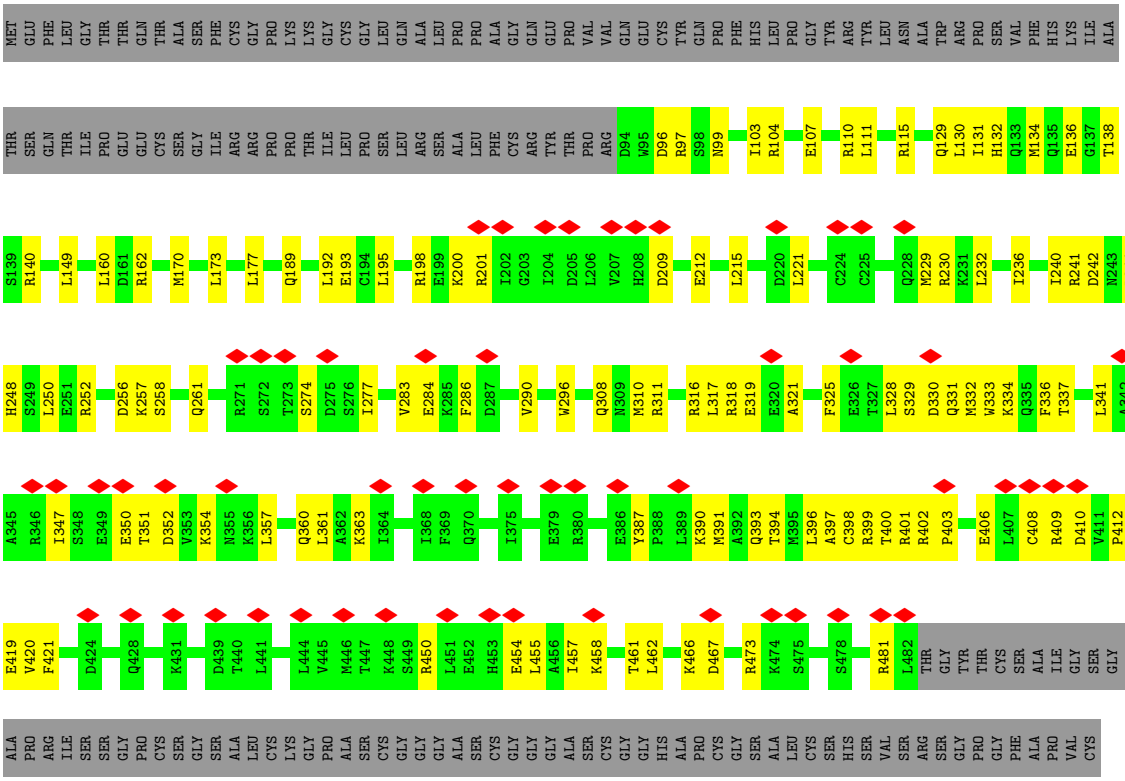
Chain V2:





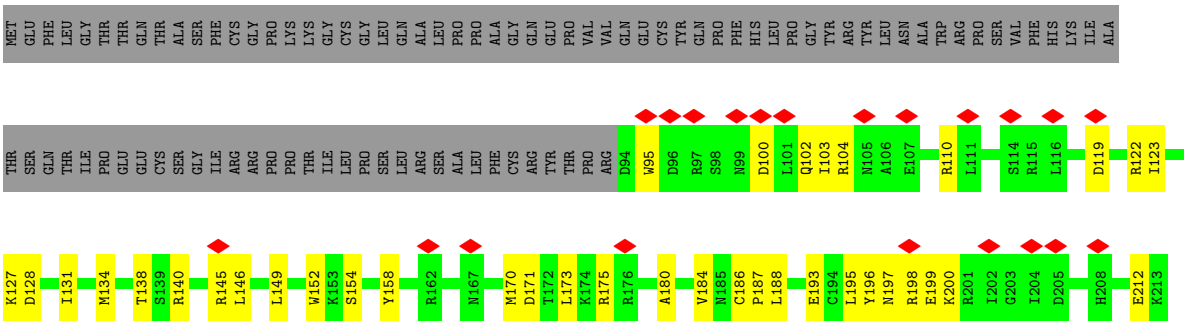
• Molecule 30: Tektin-5

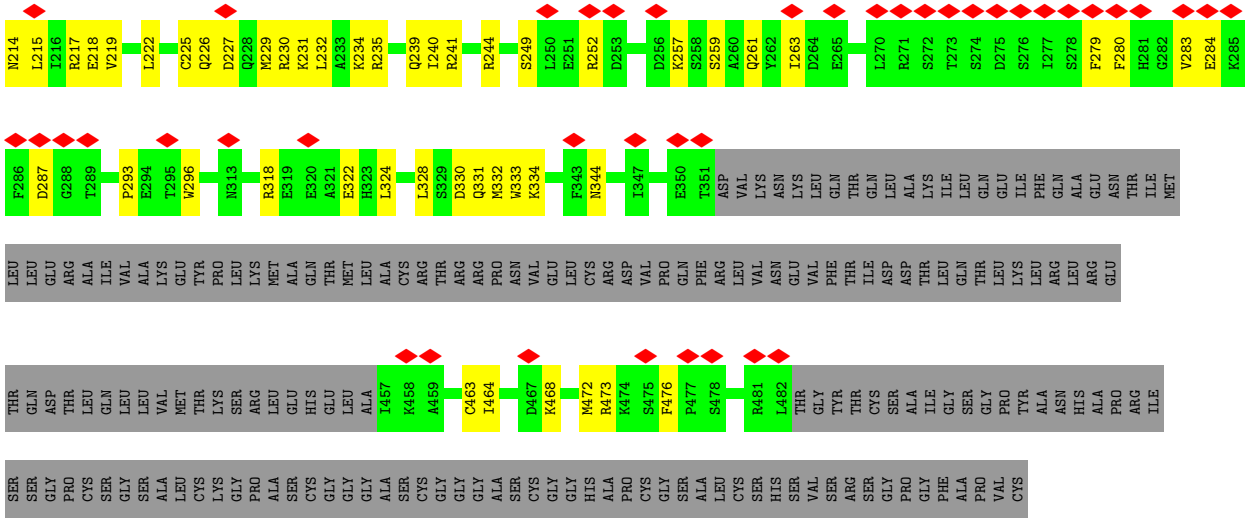
Chain V3:



• Molecule 30: Tektin-5

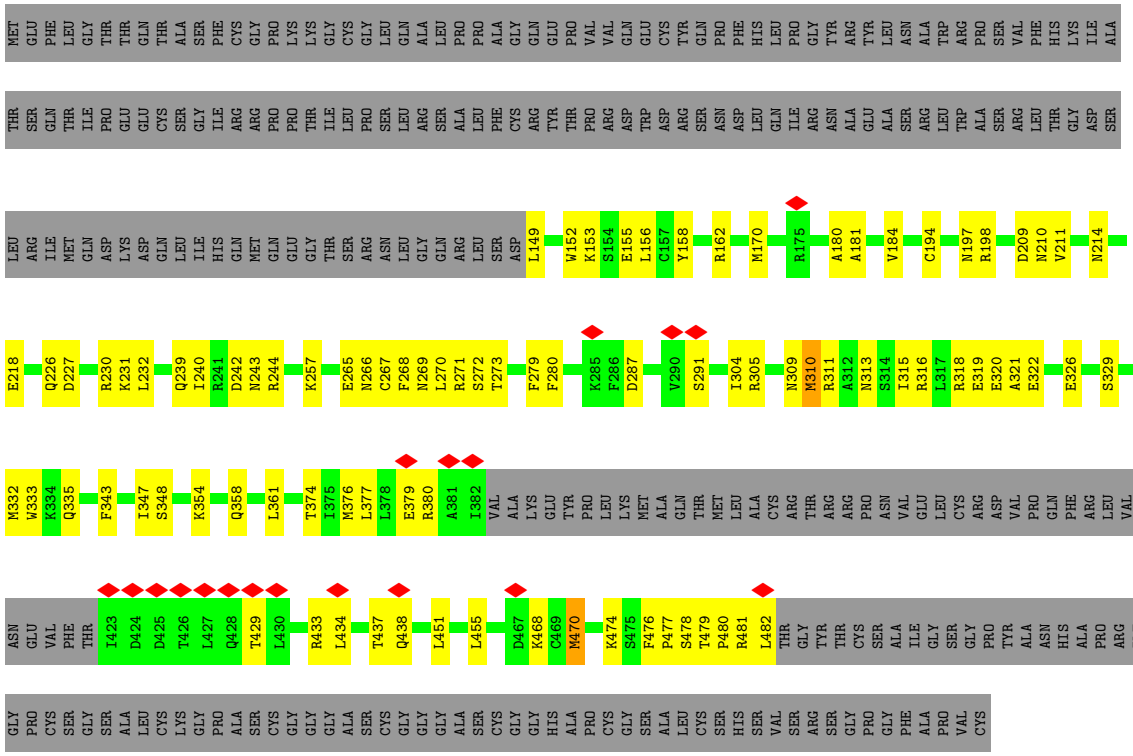
Chain V4:





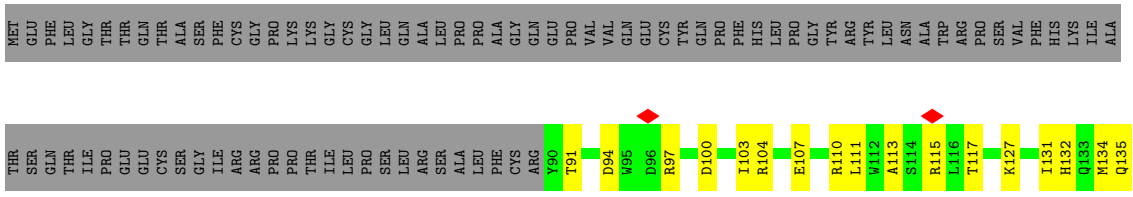
• Molecule 30: Tektin-5

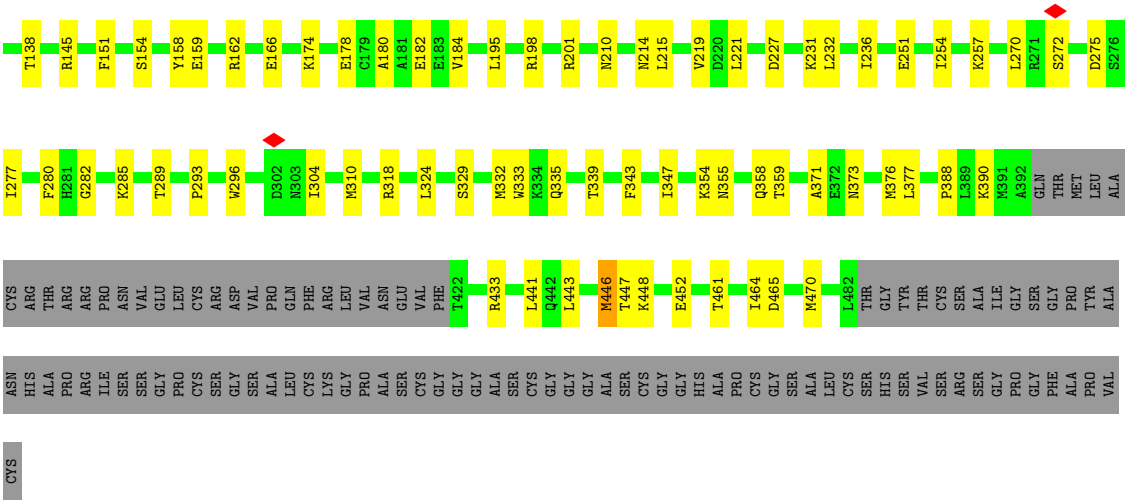
Chain V5:



• Molecule 30: Tektin-5

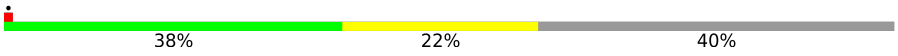
Chain V6:

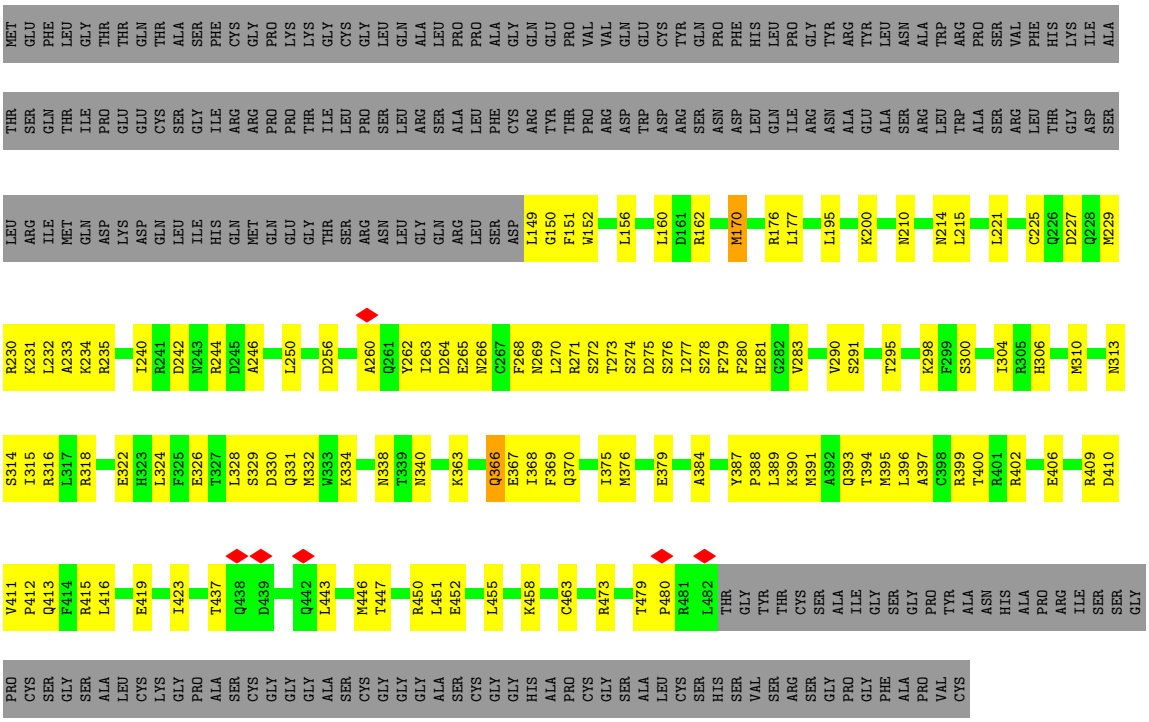




• Molecule 30: Tektin-5

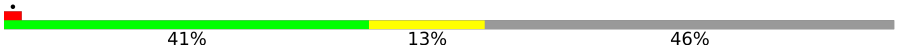
Chain V7:

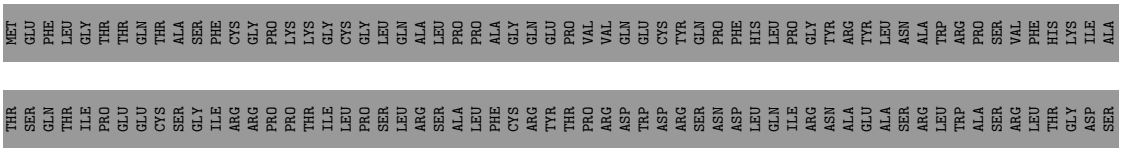


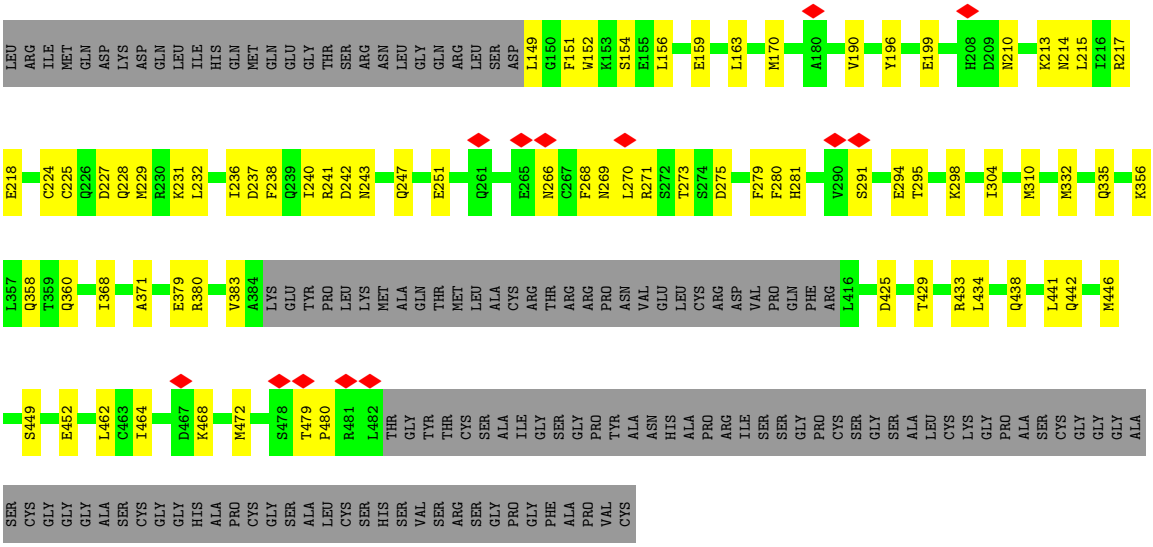


• Molecule 30: Tektin-5

Chain V8:

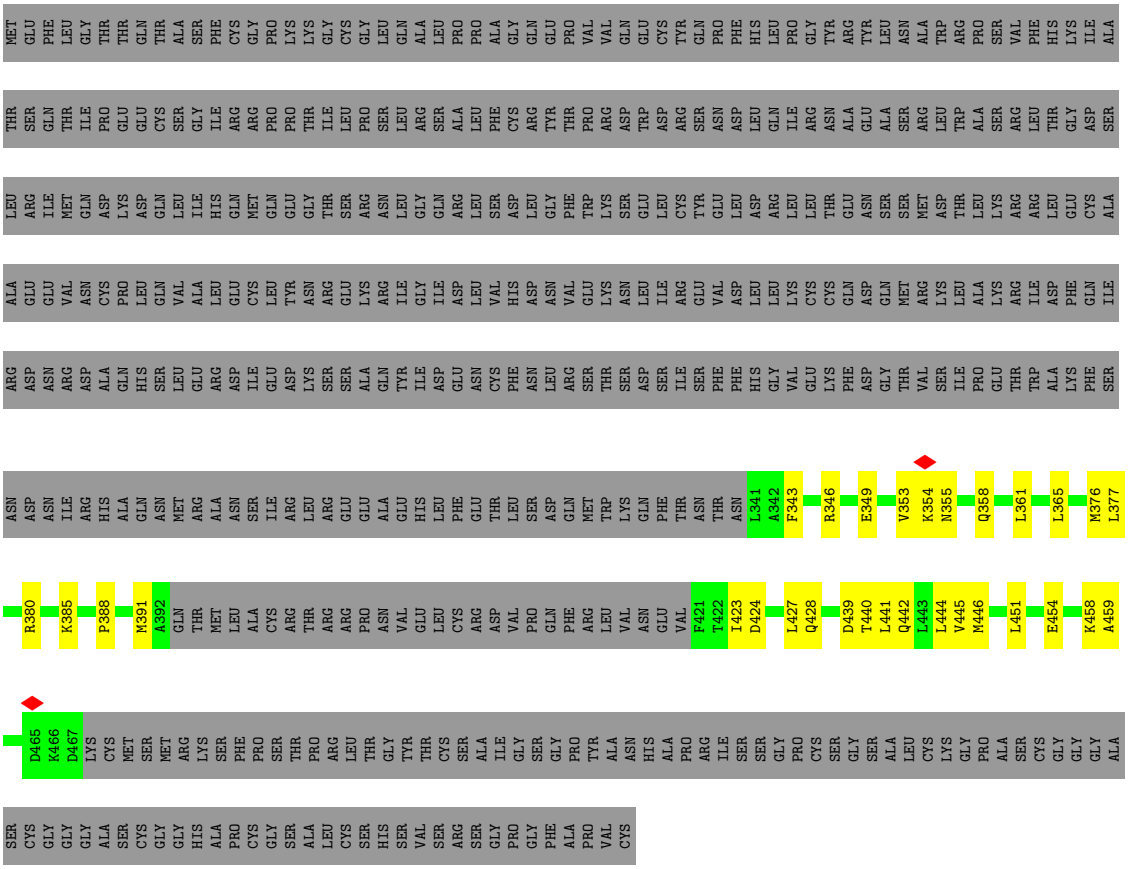






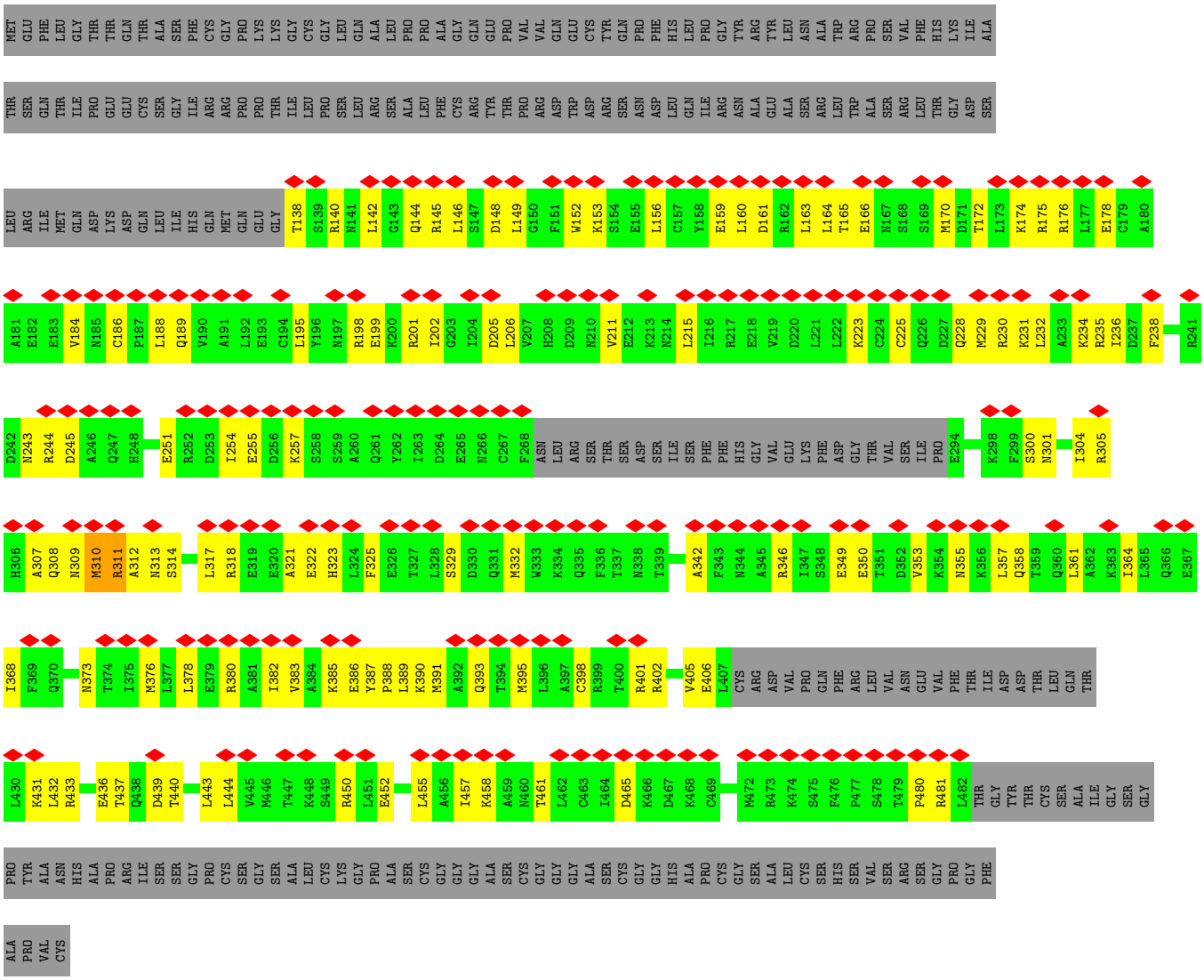
• Molecule 30: Tektin-5

Chain V9:



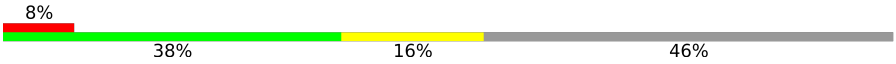
• Molecule 30: Tektin-5

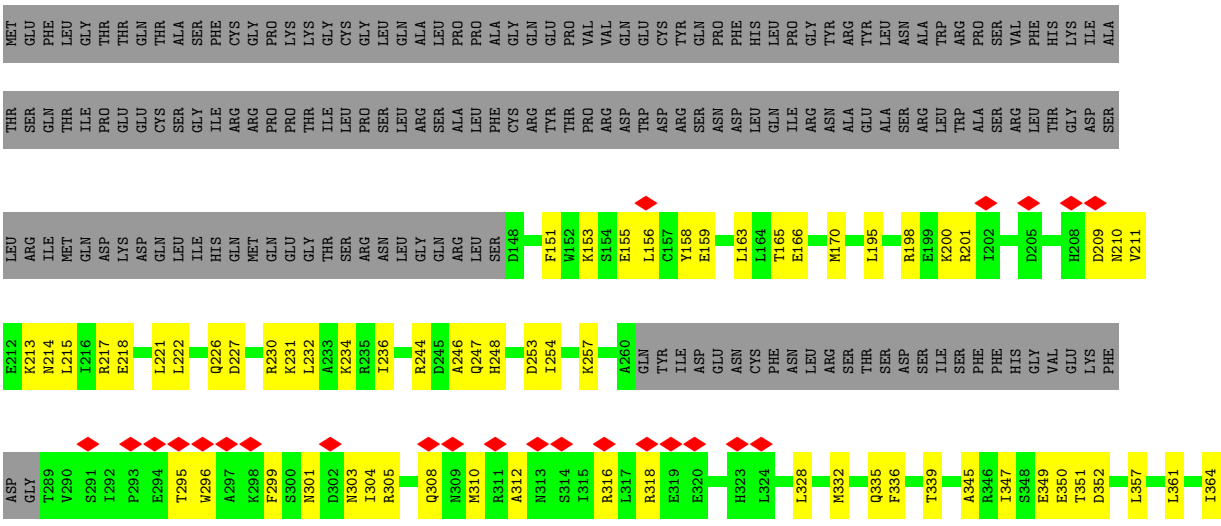
Chain W0:

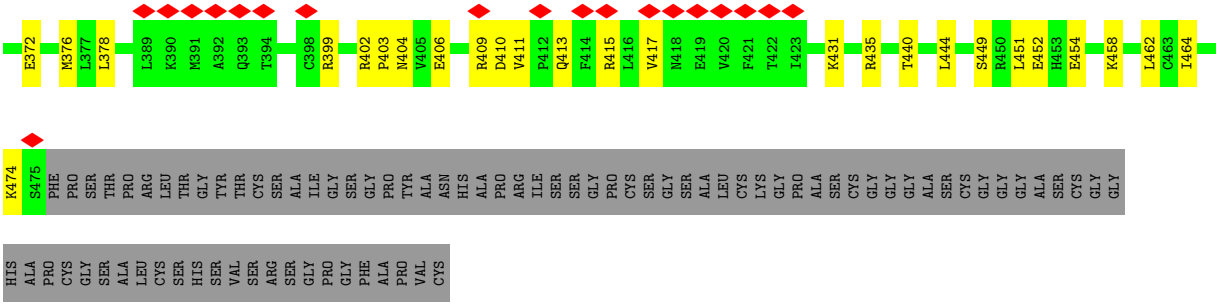


• Molecule 30: Tektin-5

Chain W2:

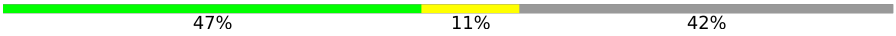


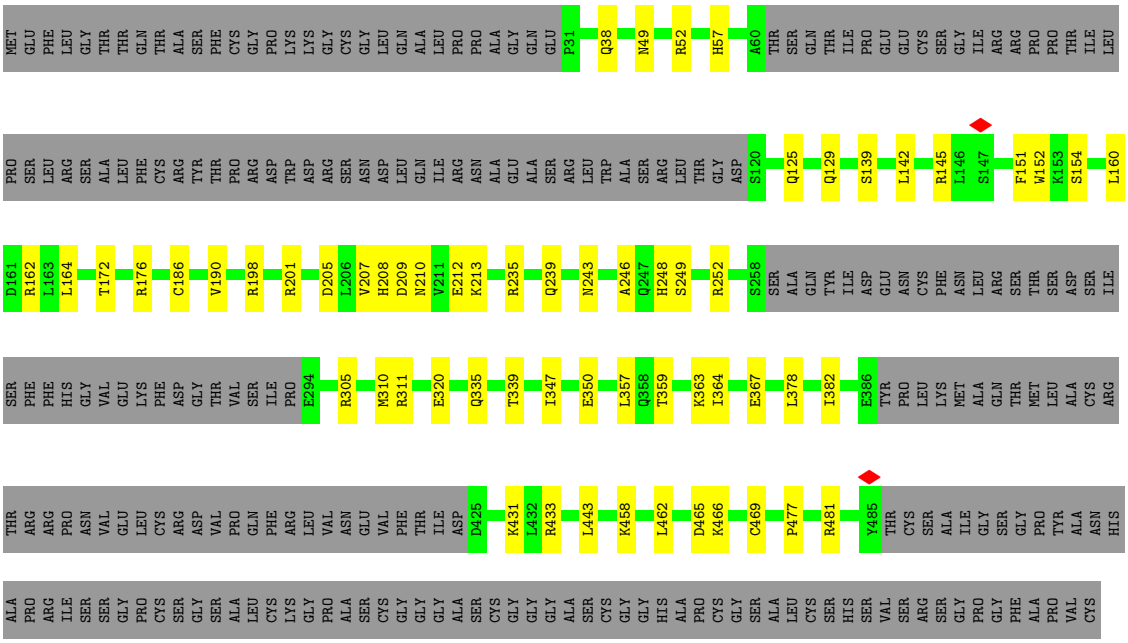




• Molecule 30: Tektin-5

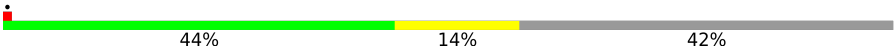
Chain W4:

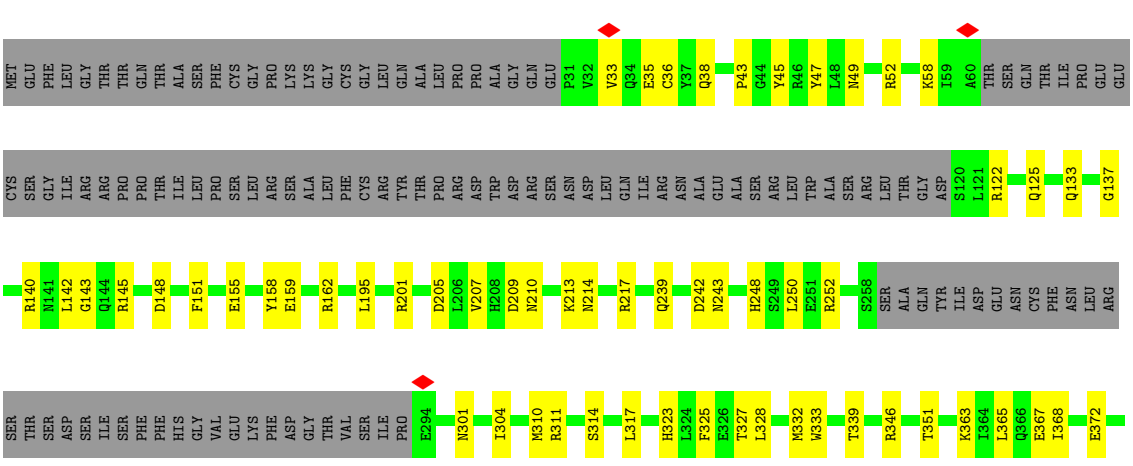


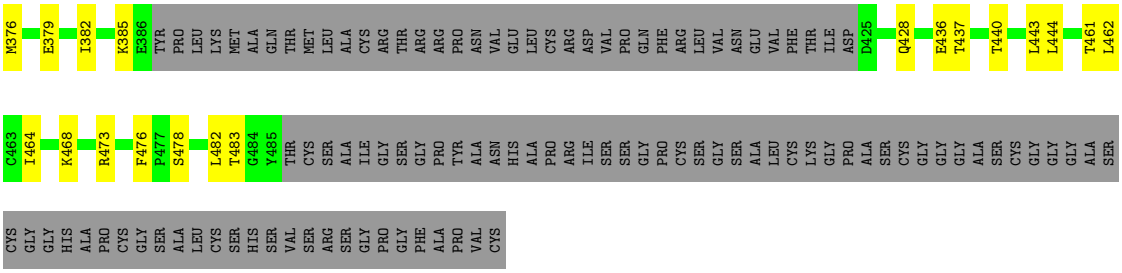


• Molecule 30: Tektin-5

Chain W5:

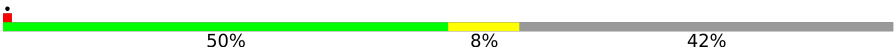


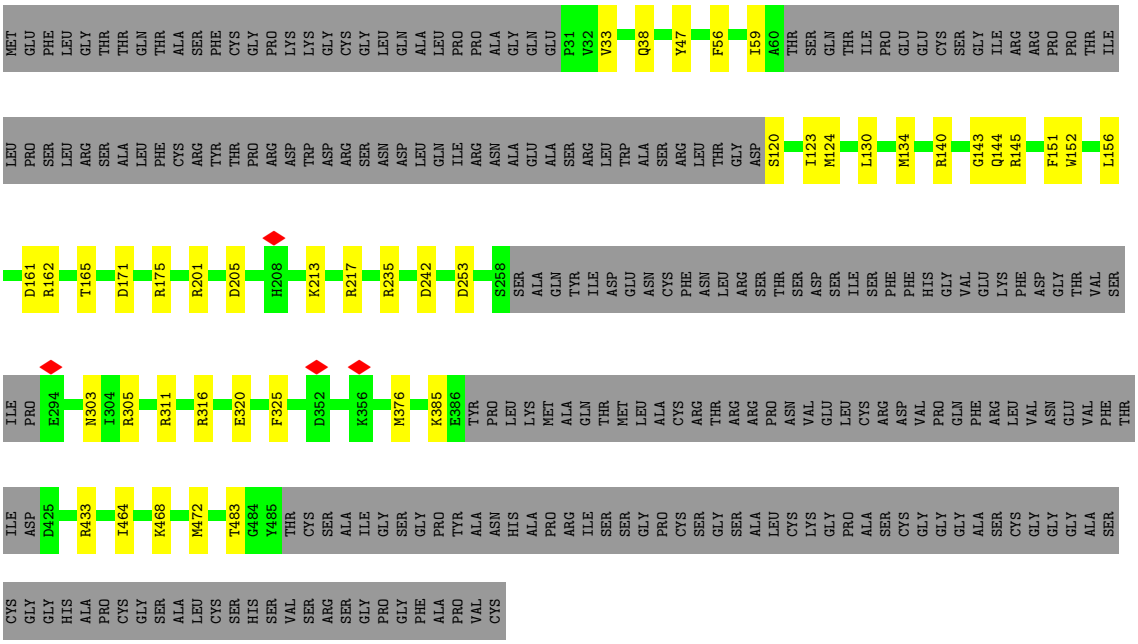




• Molecule 30: Tektin-5

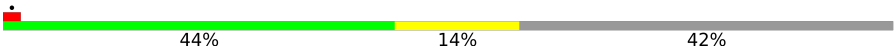
Chain W6:

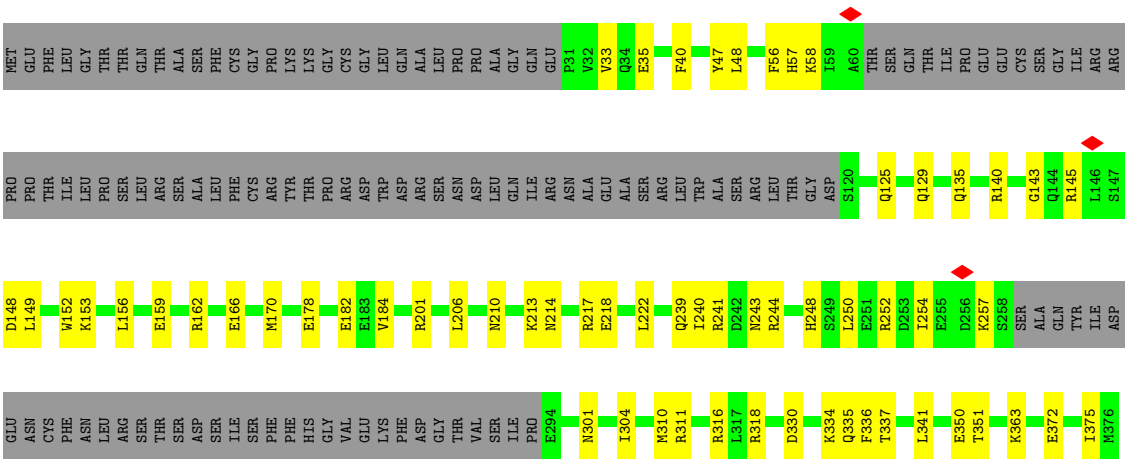


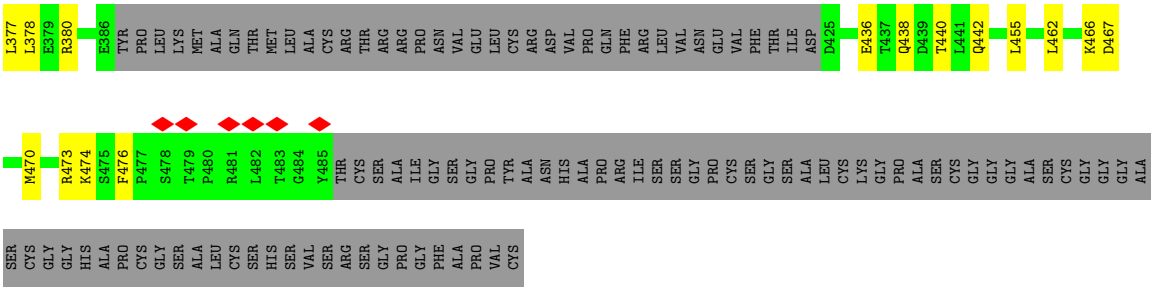


• Molecule 30: Tektin-5

Chain W7:

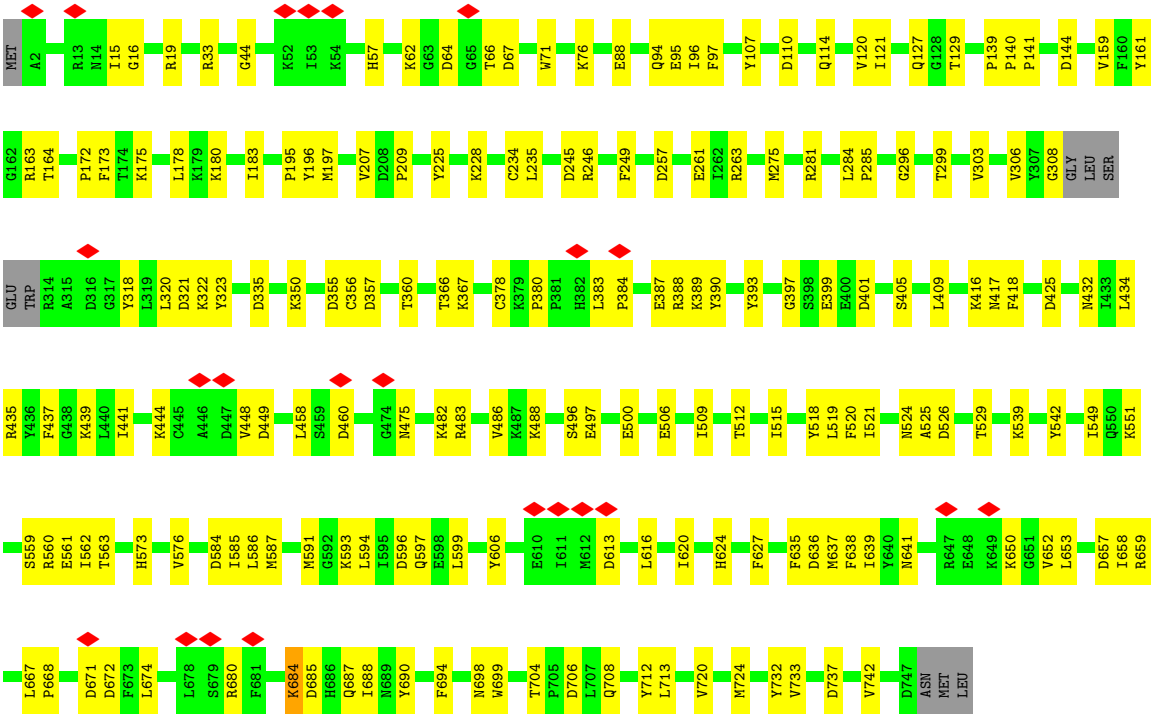






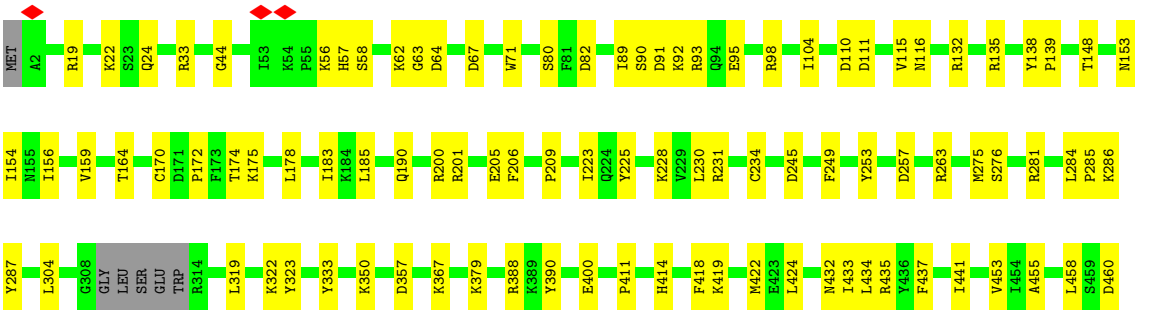
• Molecule 31: EF-hand domain-containing family member C2

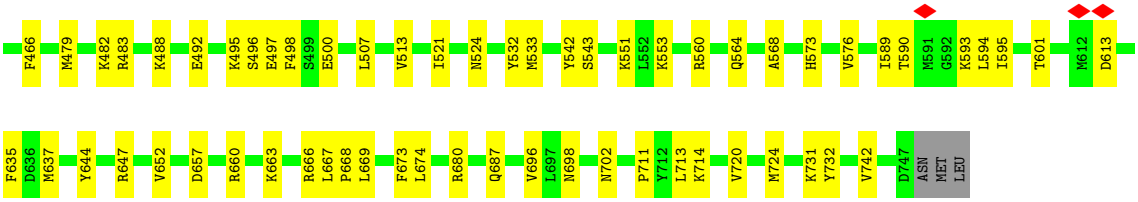
Chain W:



• Molecule 31: EF-hand domain-containing family member C2

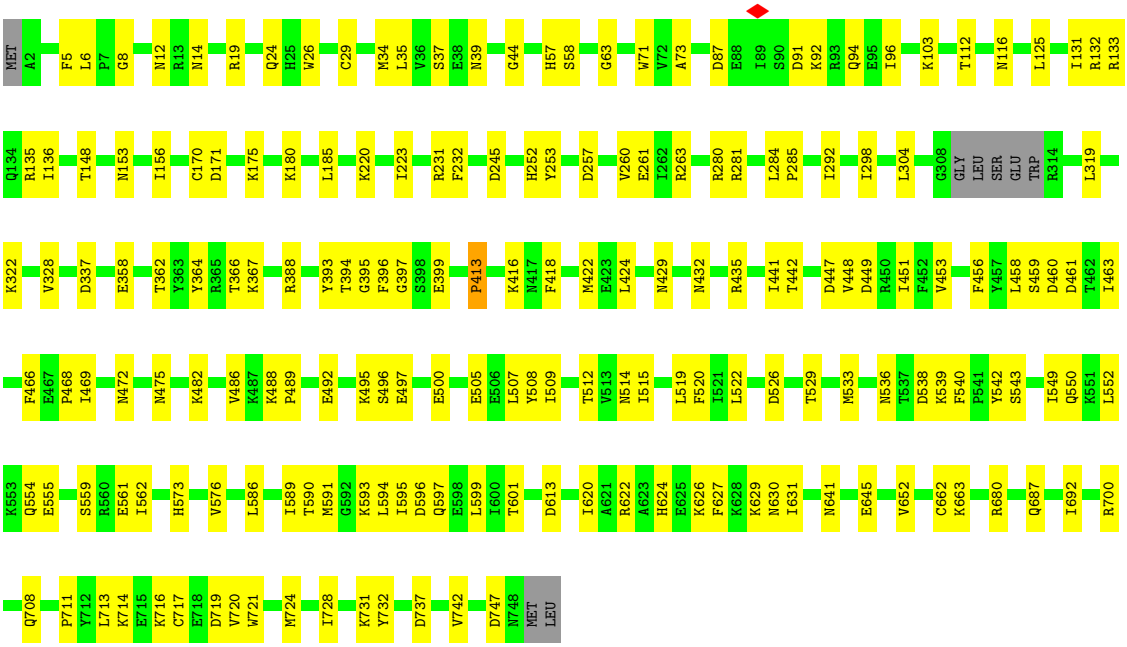
Chain X:





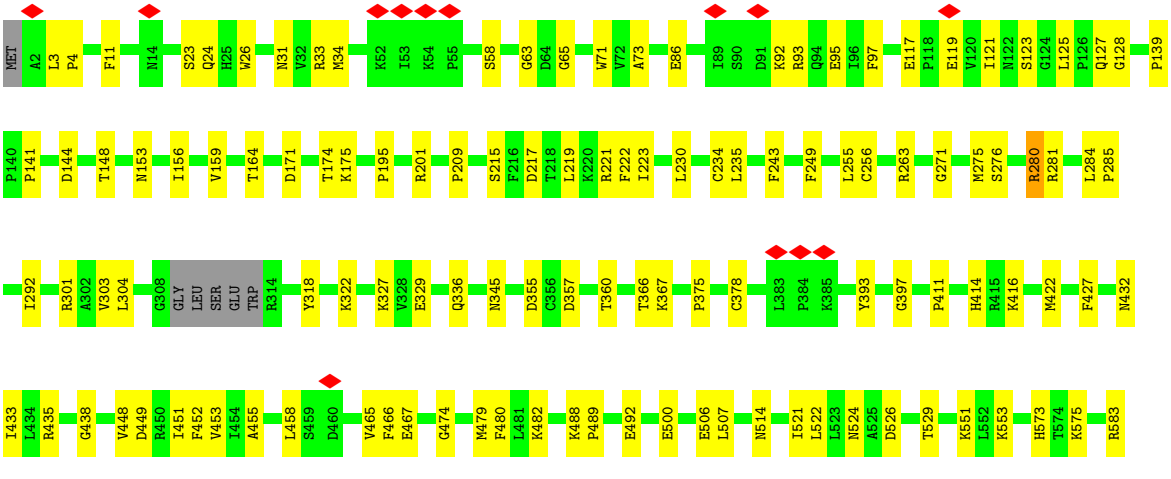
• Molecule 31: EF-hand domain-containing family member C2

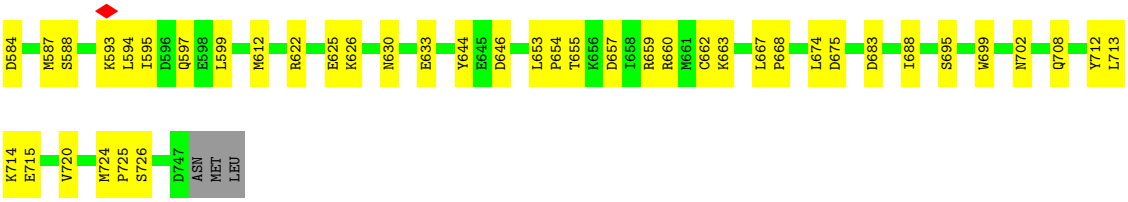
Chain Y:



• Molecule 31: EF-hand domain-containing family member C2

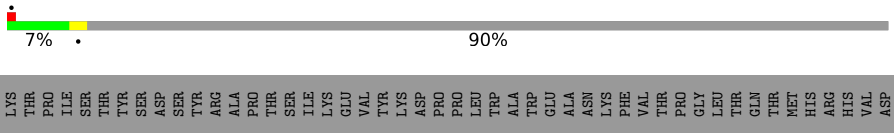
Chain Z:

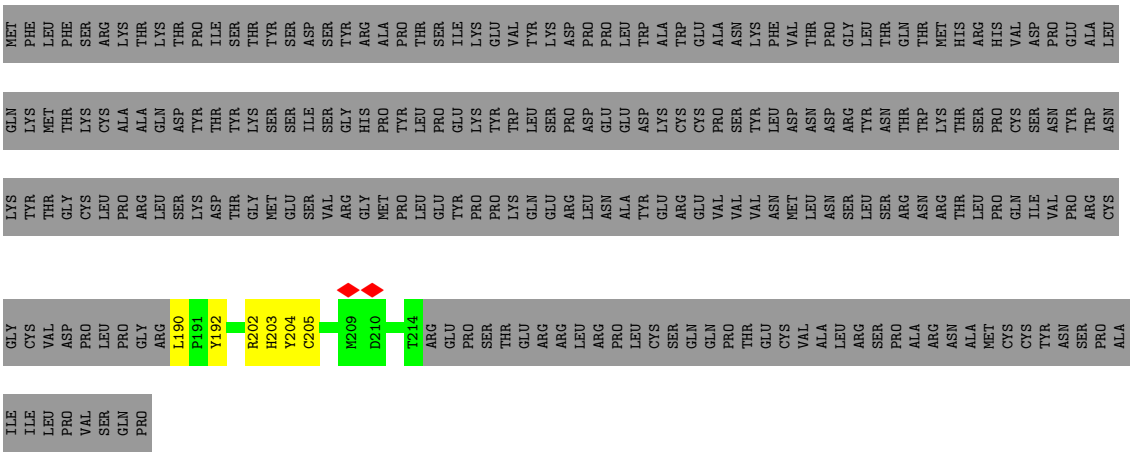




• Molecule 32: Spermatid-specific manchette-related protein 1

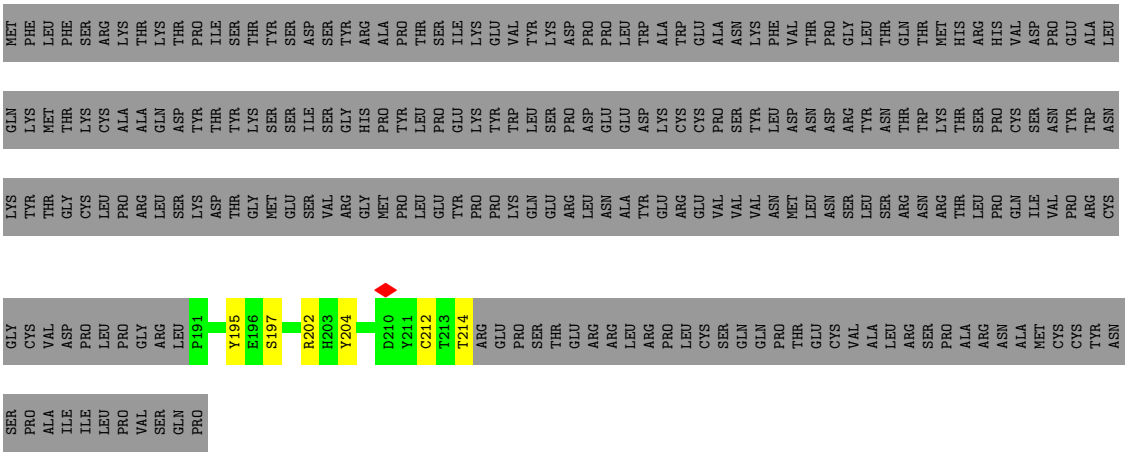
Chain X0:





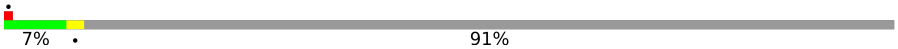
• Molecule 32: Spermatid-specific manchette-related protein 1

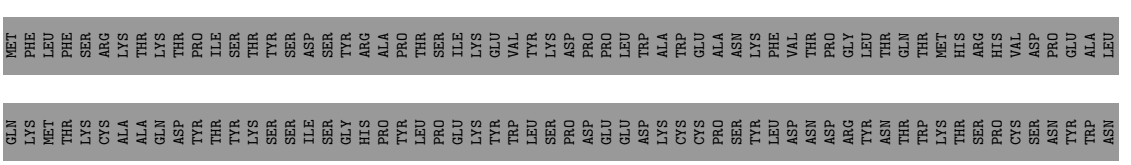
Chain X1:

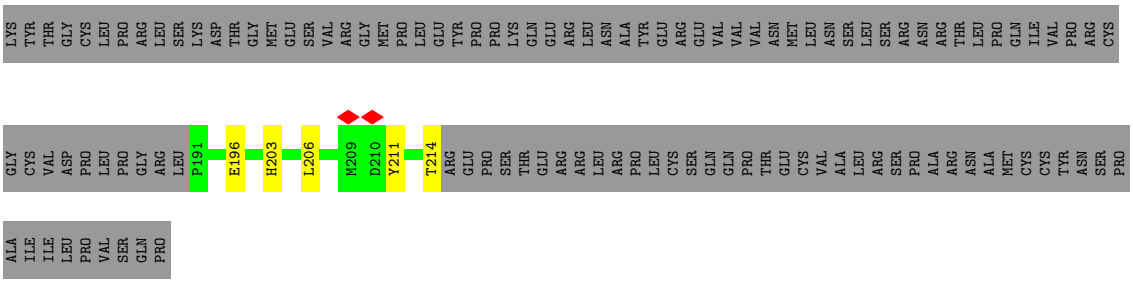


• Molecule 32: Spermatid-specific manchette-related protein 1

Chain X2:

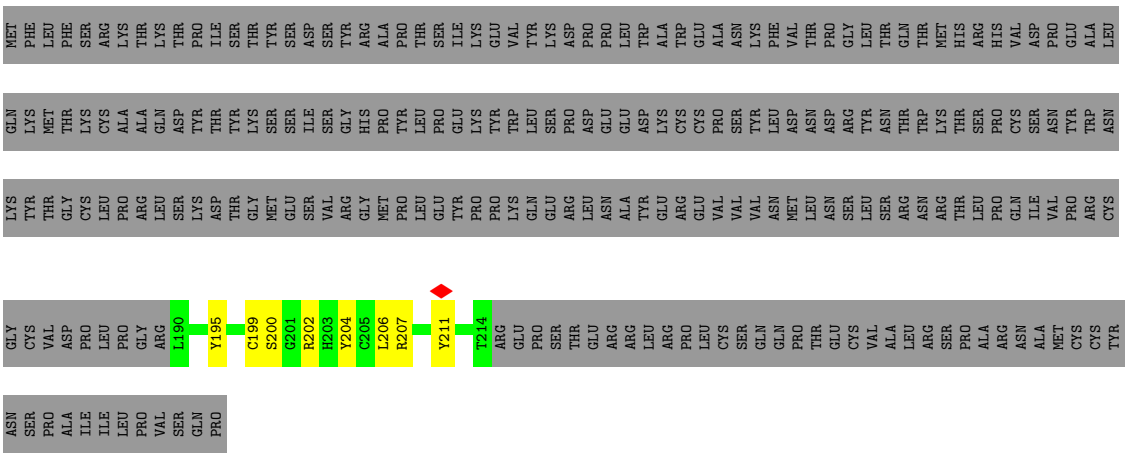






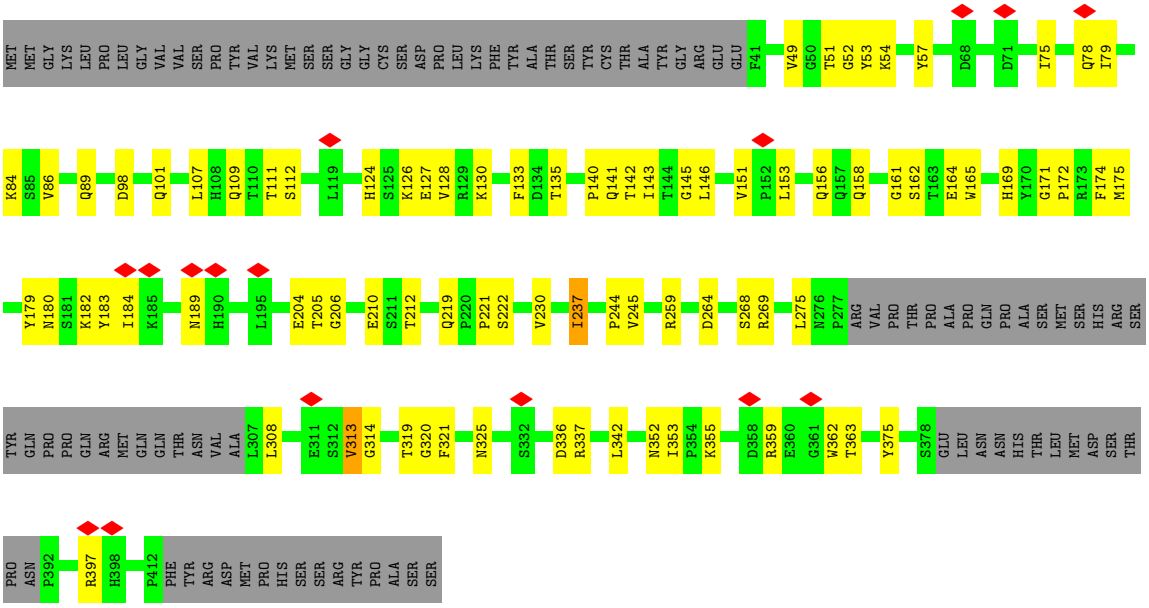
• Molecule 32: Spermatid-specific manchette-related protein 1

Chain X3:



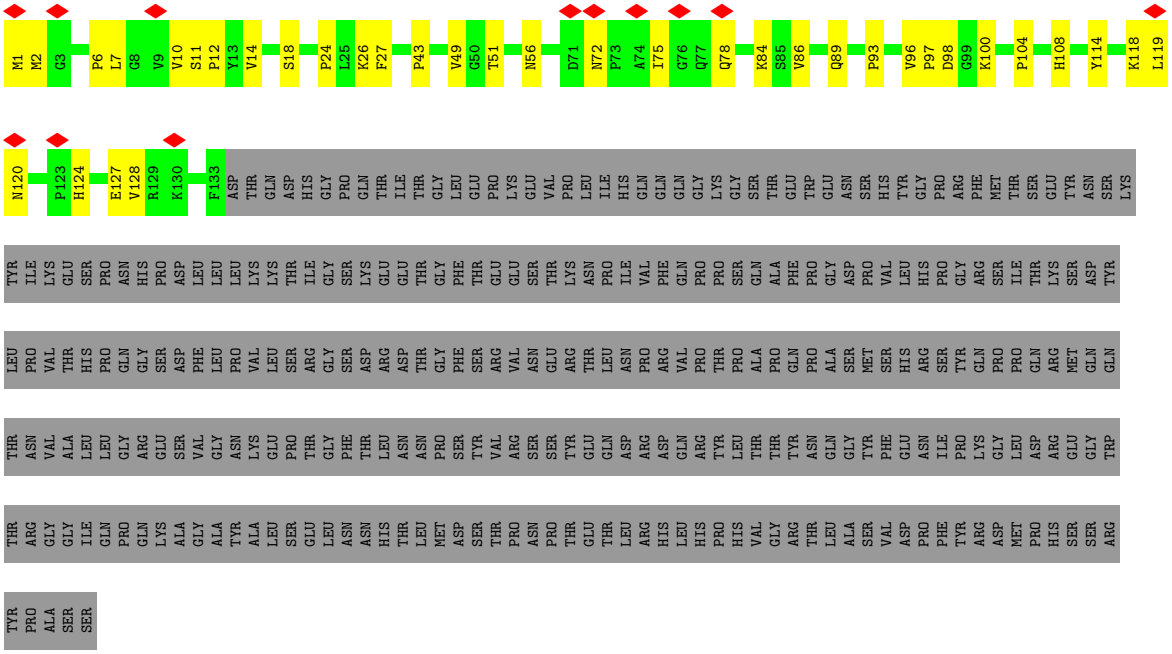
• Molecule 33: Protein phosphatase 1 regulatory subunit 32

Chain X4:



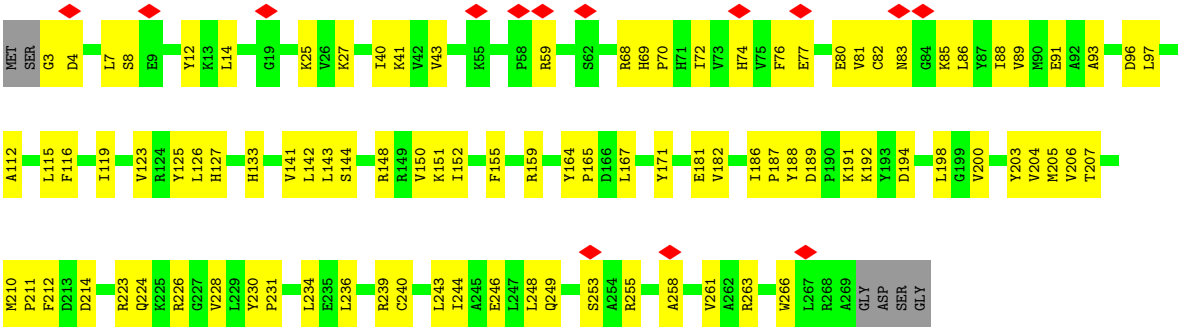
• Molecule 33: Protein phosphatase 1 regulatory subunit 32

Chain X5:



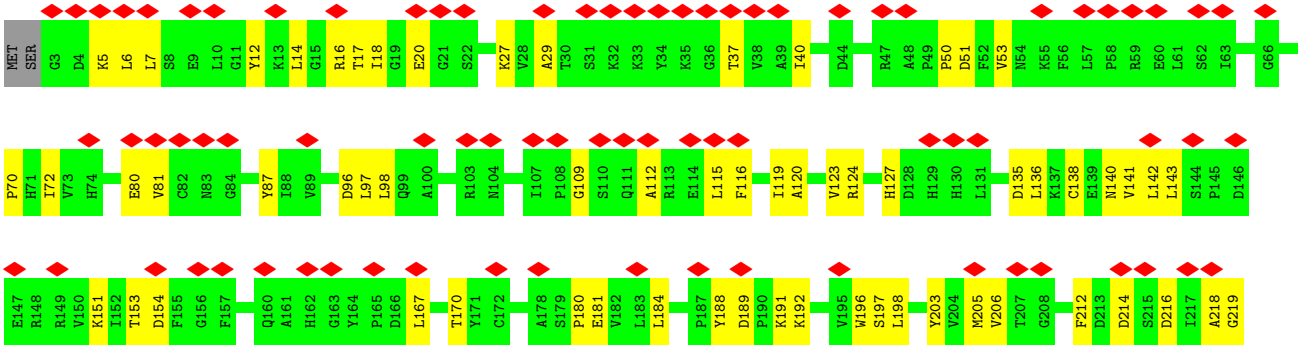
• Molecule 34: Testis-specific serine/threonine-protein kinase 6

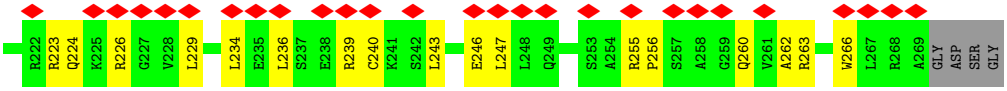
Chain X6:



• Molecule 34: Testis-specific serine/threonine-protein kinase 6

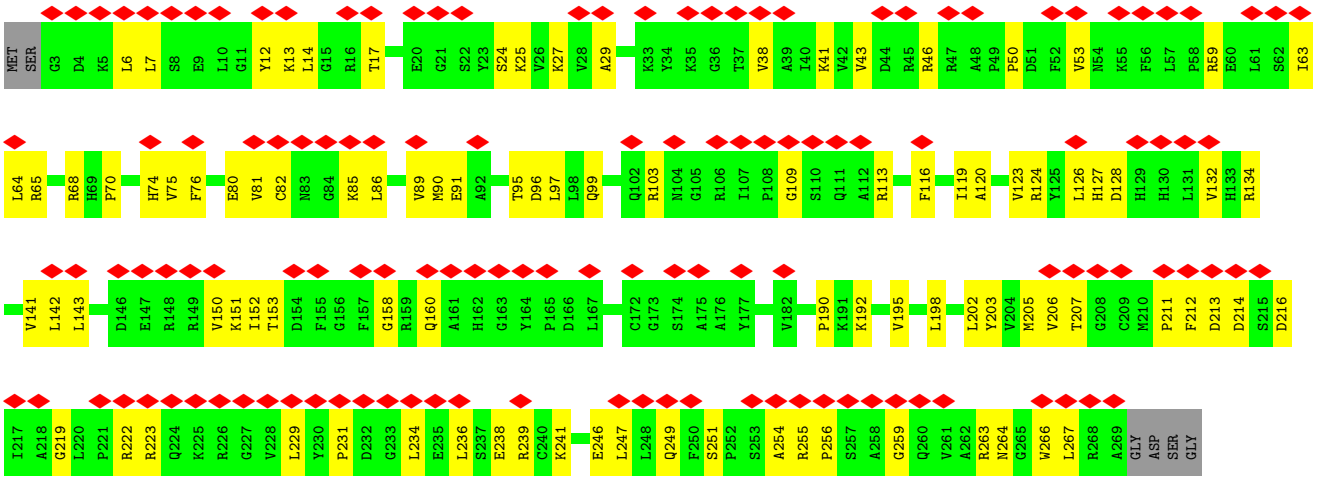
Chain X7:





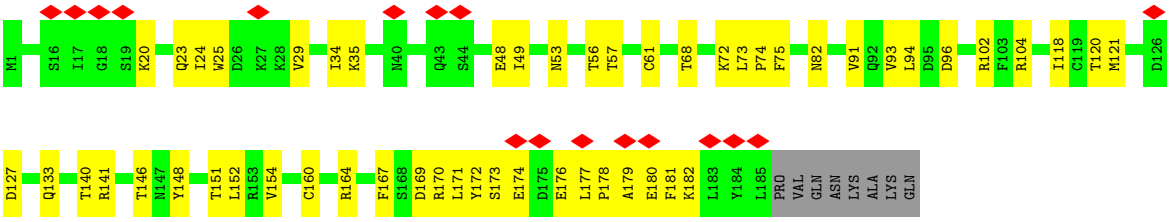
• Molecule 34: Testis-specific serine/threonine-protein kinase 6

Chain X8:



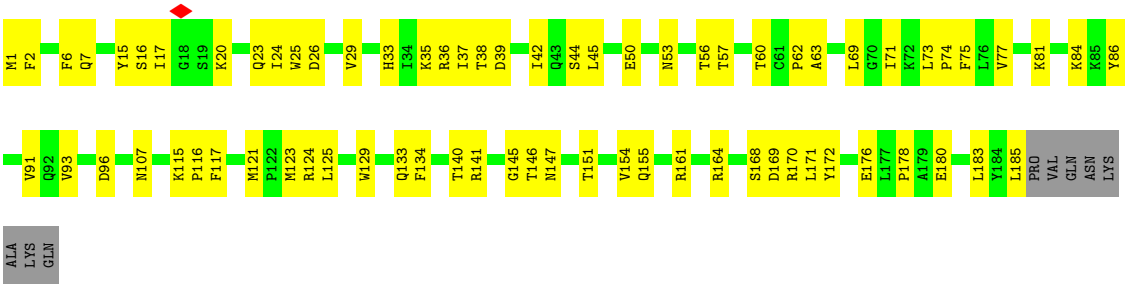
• Molecule 35: Cilia- and flagella-associated protein 20

Chain XA:



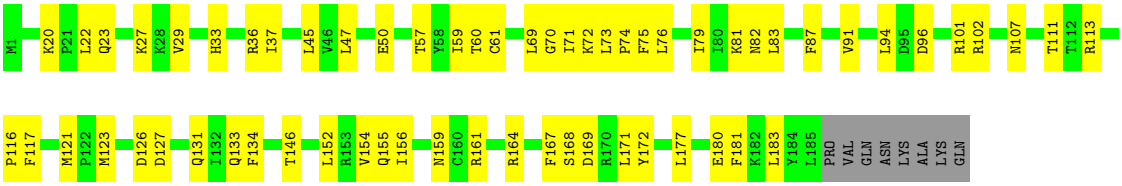
• Molecule 35: Cilia- and flagella-associated protein 20

Chain XB:



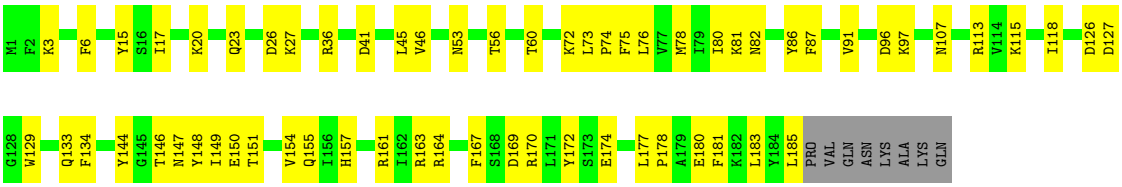
• Molecule 35: Cilia- and flagella-associated protein 20

Chain XC:



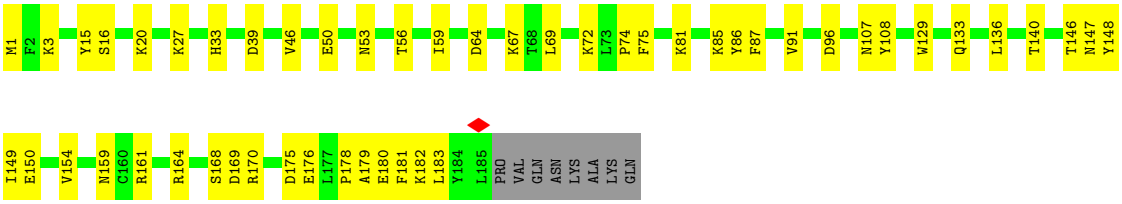
• Molecule 35: Cilia- and flagella-associated protein 20

Chain XD:



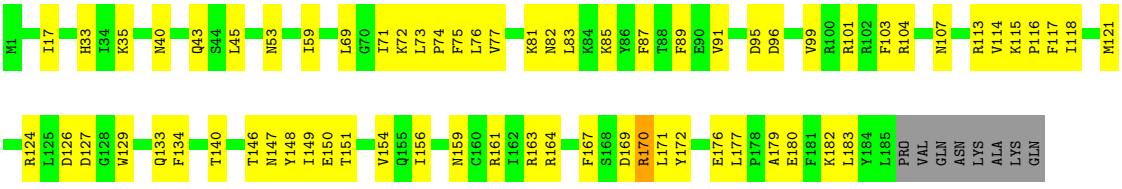
• Molecule 35: Cilia- and flagella-associated protein 20

Chain XE:



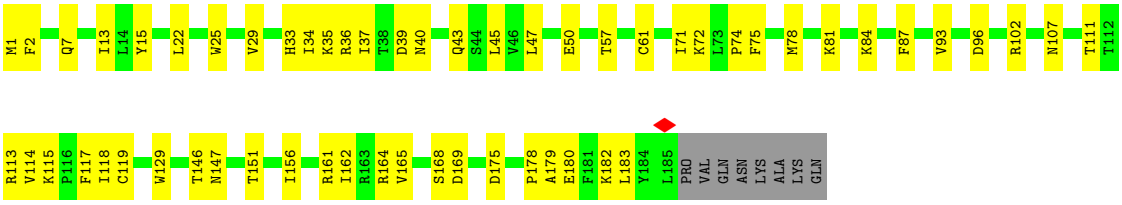
• Molecule 35: Cilia- and flagella-associated protein 20

Chain XF:



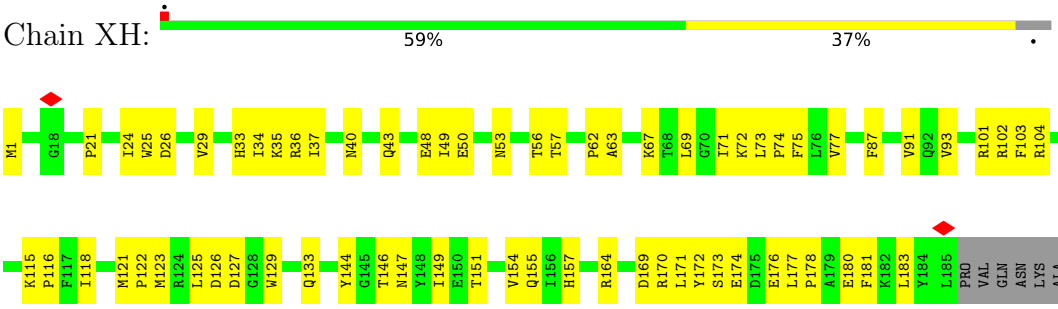
• Molecule 35: Cilia- and flagella-associated protein 20

Chain XG:



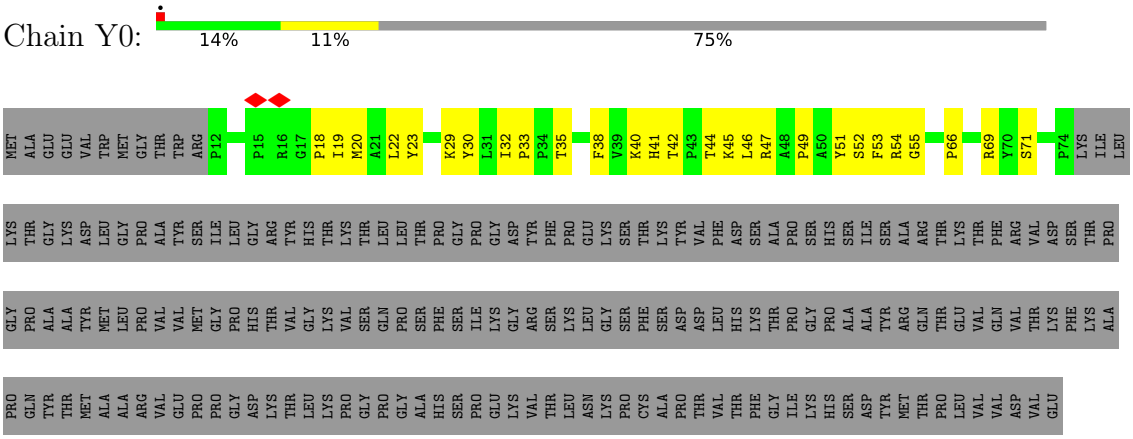
• Molecule 35: Cilia- and flagella-associated protein 20

Chain XH:



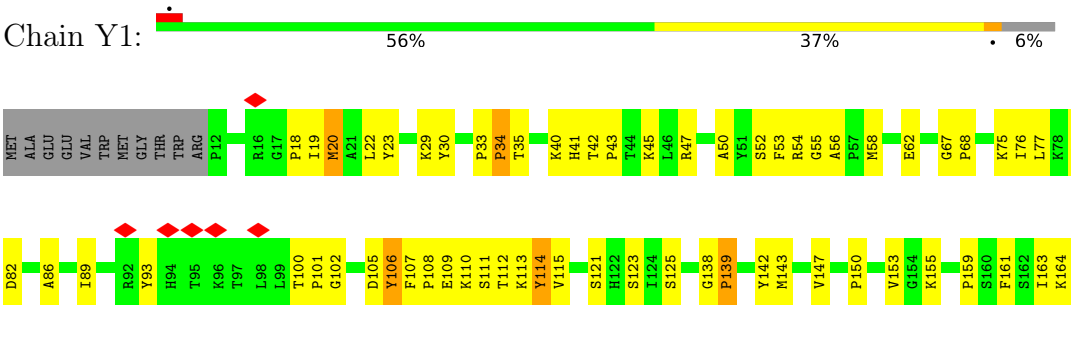
• Molecule 36: Outer dense fiber protein 3

Chain Y0:



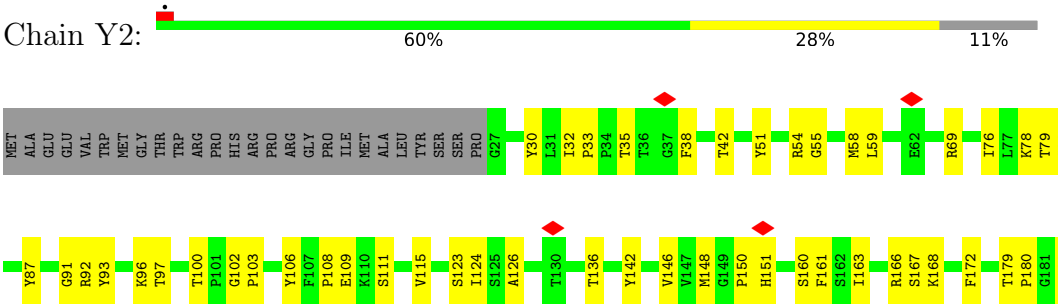
• Molecule 36: Outer dense fiber protein 3

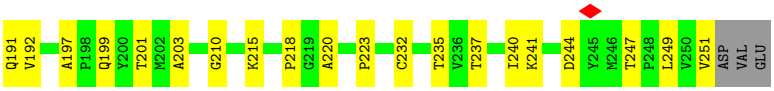
Chain Y1:



• Molecule 36: Outer dense fiber protein 3

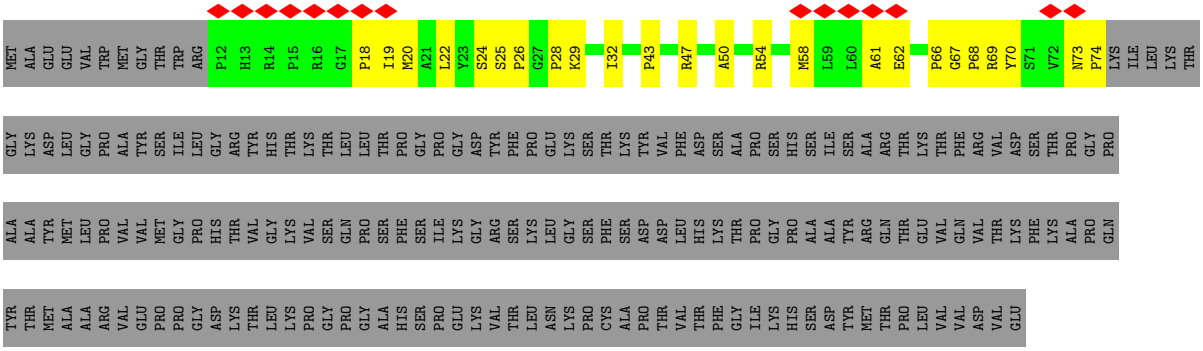
Chain Y2:





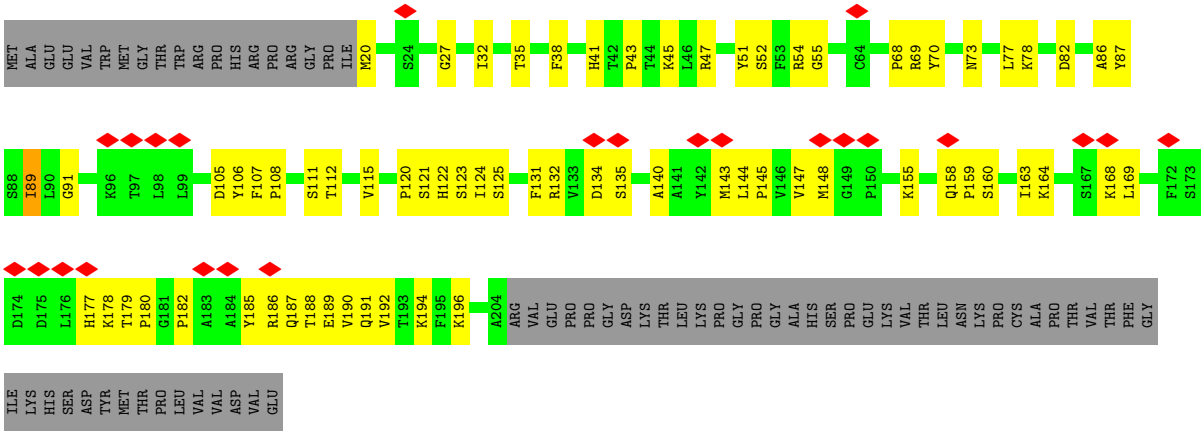
• Molecule 36: Outer dense fiber protein 3

Chain Y3:



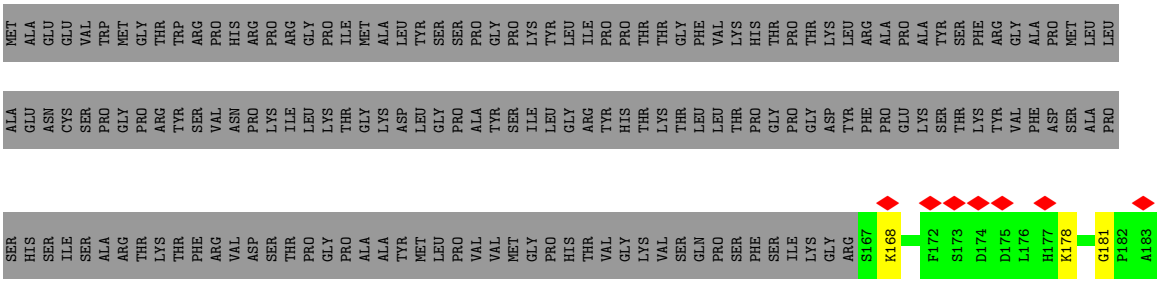
• Molecule 36: Outer dense fiber protein 3

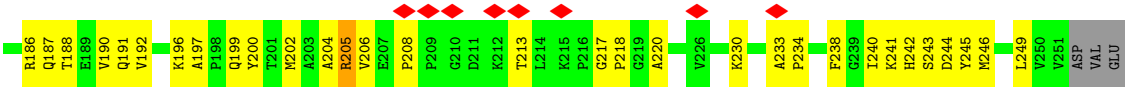
Chain Y4:



• Molecule 36: Outer dense fiber protein 3

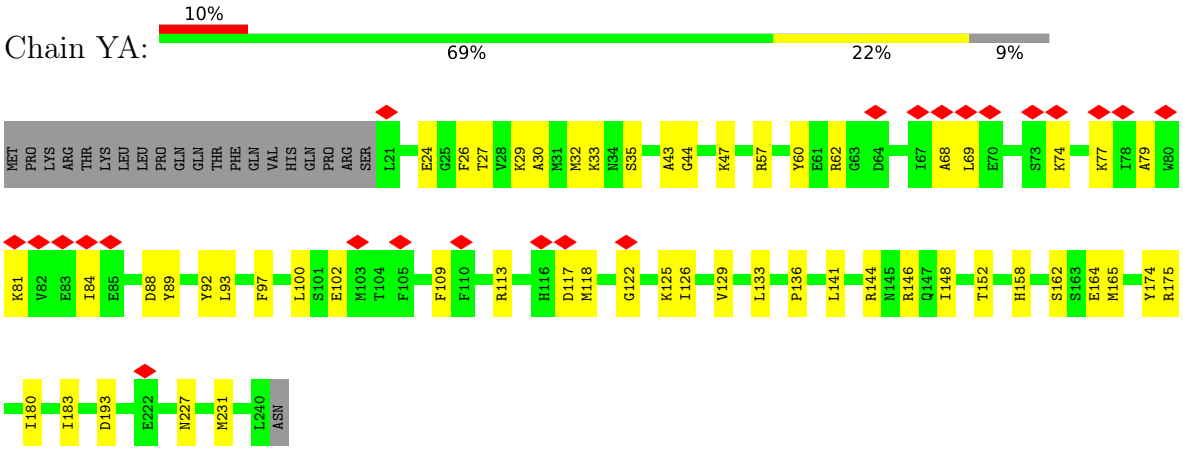
Chain Y5:





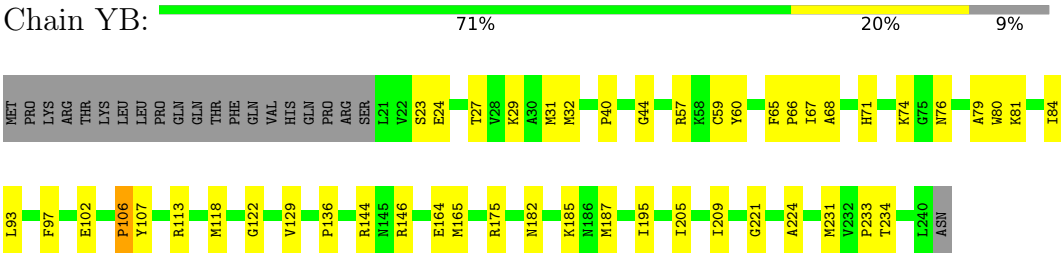
• Molecule 37: Parkin coregulated gene protein homolog

Chain YA:



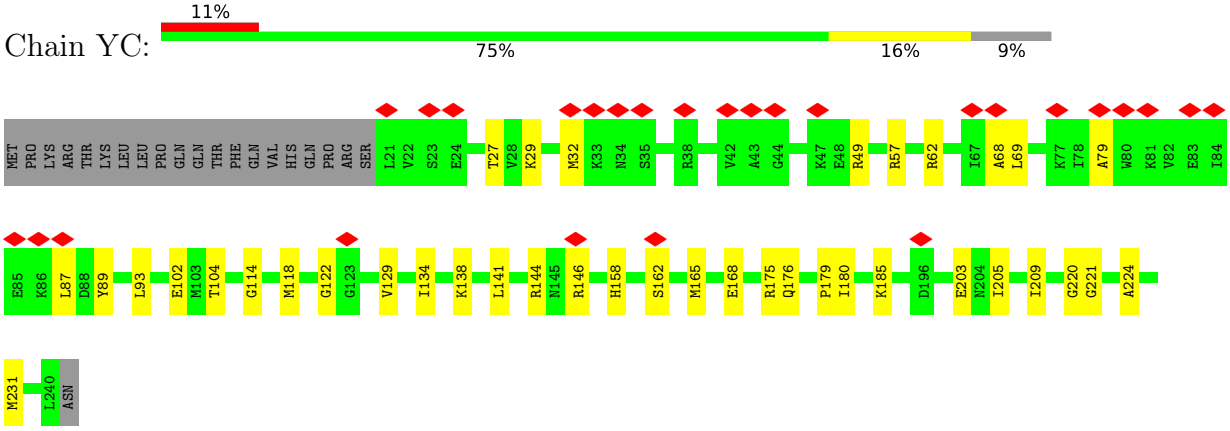
• Molecule 37: Parkin coregulated gene protein homolog

Chain YB:



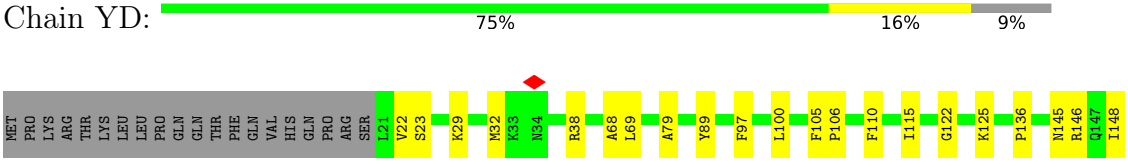
• Molecule 37: Parkin coregulated gene protein homolog

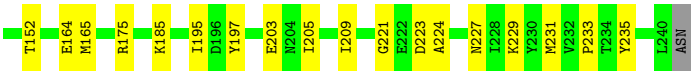
Chain YC:



• Molecule 37: Parkin coregulated gene protein homolog

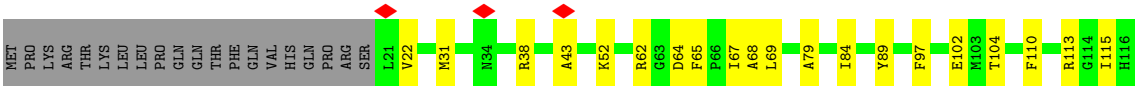
Chain YD:





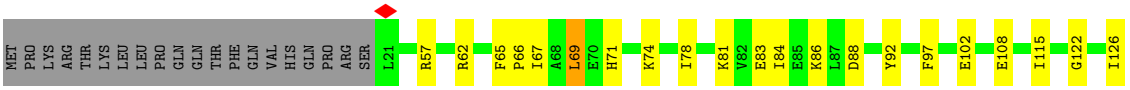
• Molecule 37: Parkin coregulated gene protein homolog

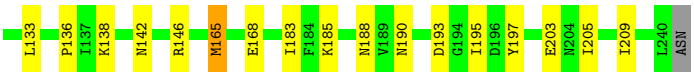
Chain YE:



• Molecule 37: Parkin coregulated gene protein homolog

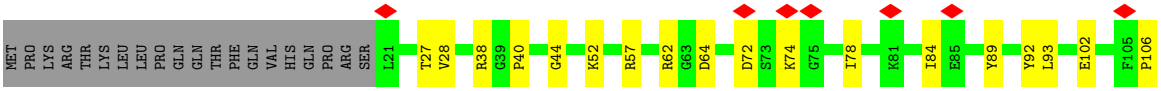
Chain YF:





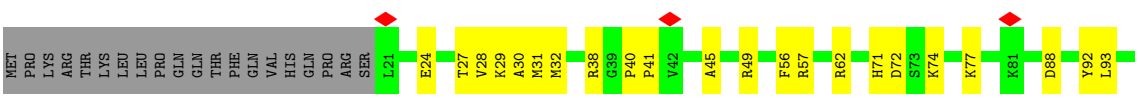
• Molecule 37: Parkin coregulated gene protein homolog

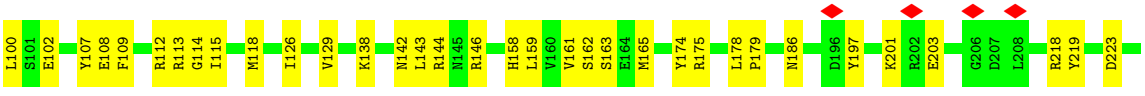
Chain YG:

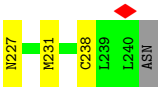


• Molecule 37: Parkin coregulated gene protein homolog

Chain YH:

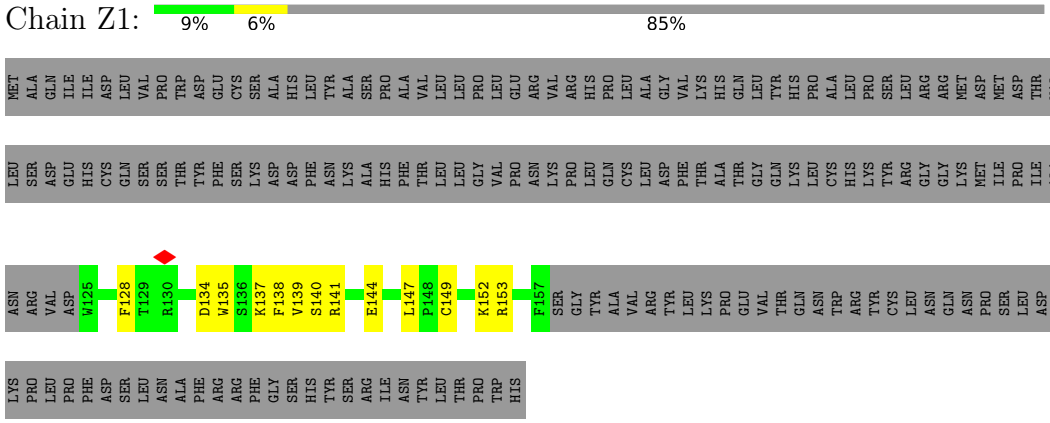






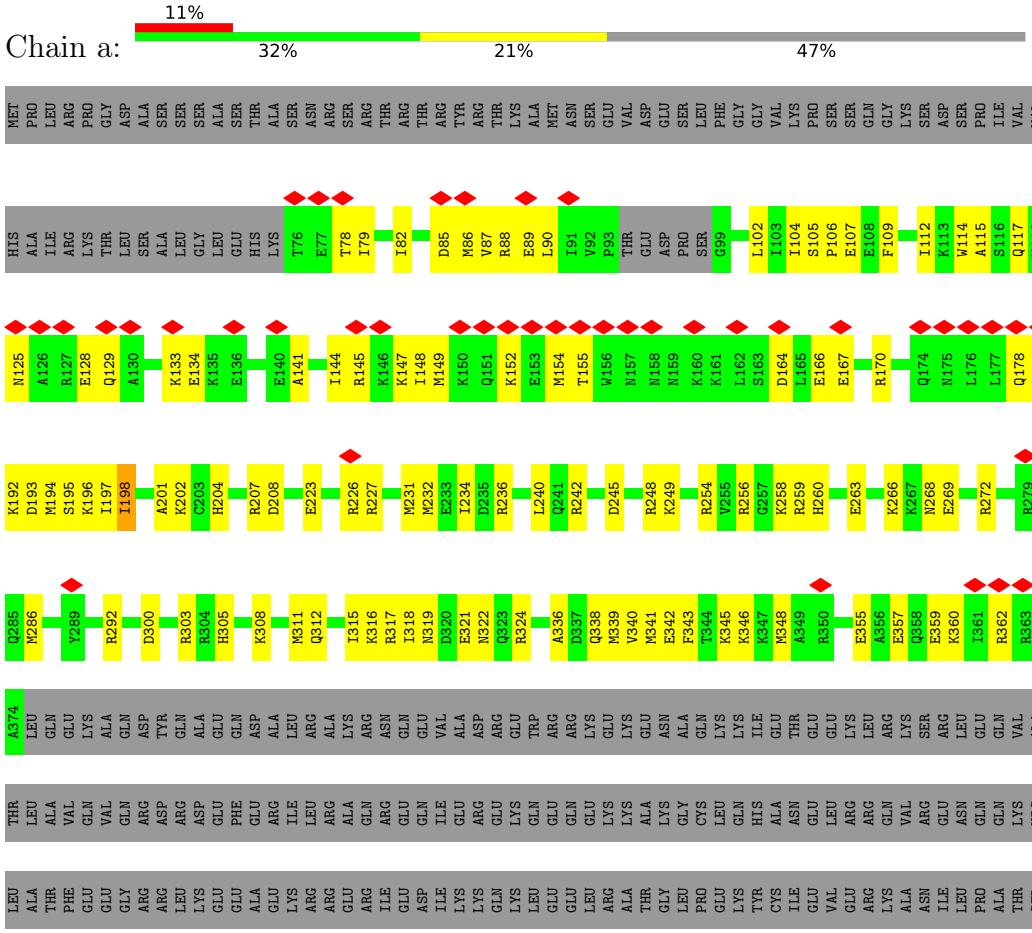
• Molecule 38: Testis, prostate and placenta-expressed protein

Chain Z1:



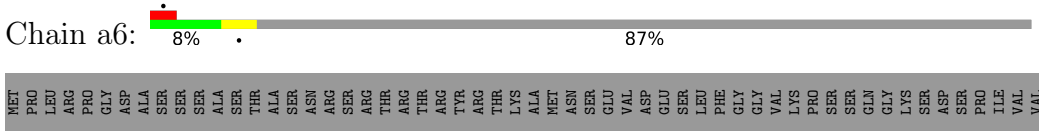
• Molecule 39: Cilia- and flagella-associated protein 45

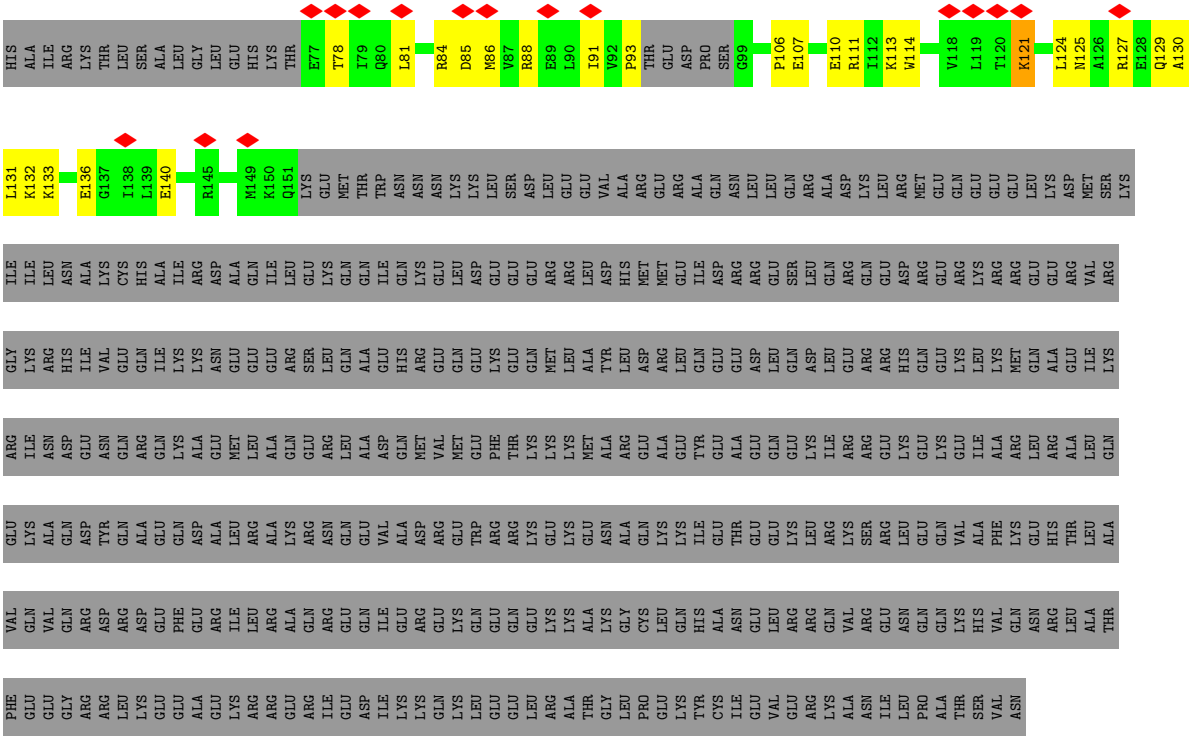
Chain a:



• Molecule 39: Cilia- and flagella-associated protein 45

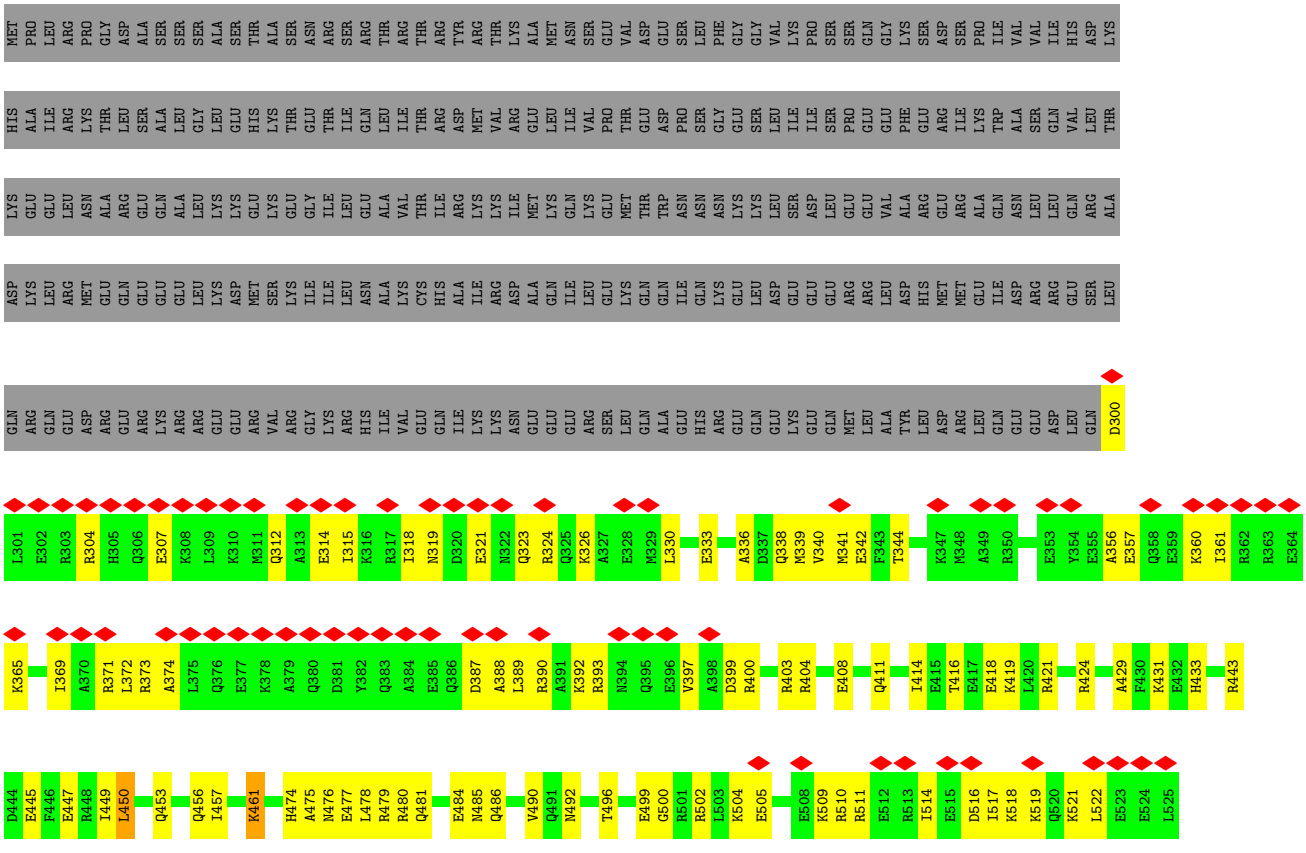
Chain a6:

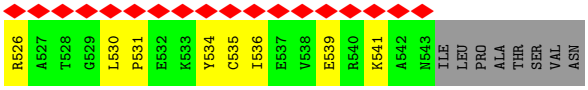




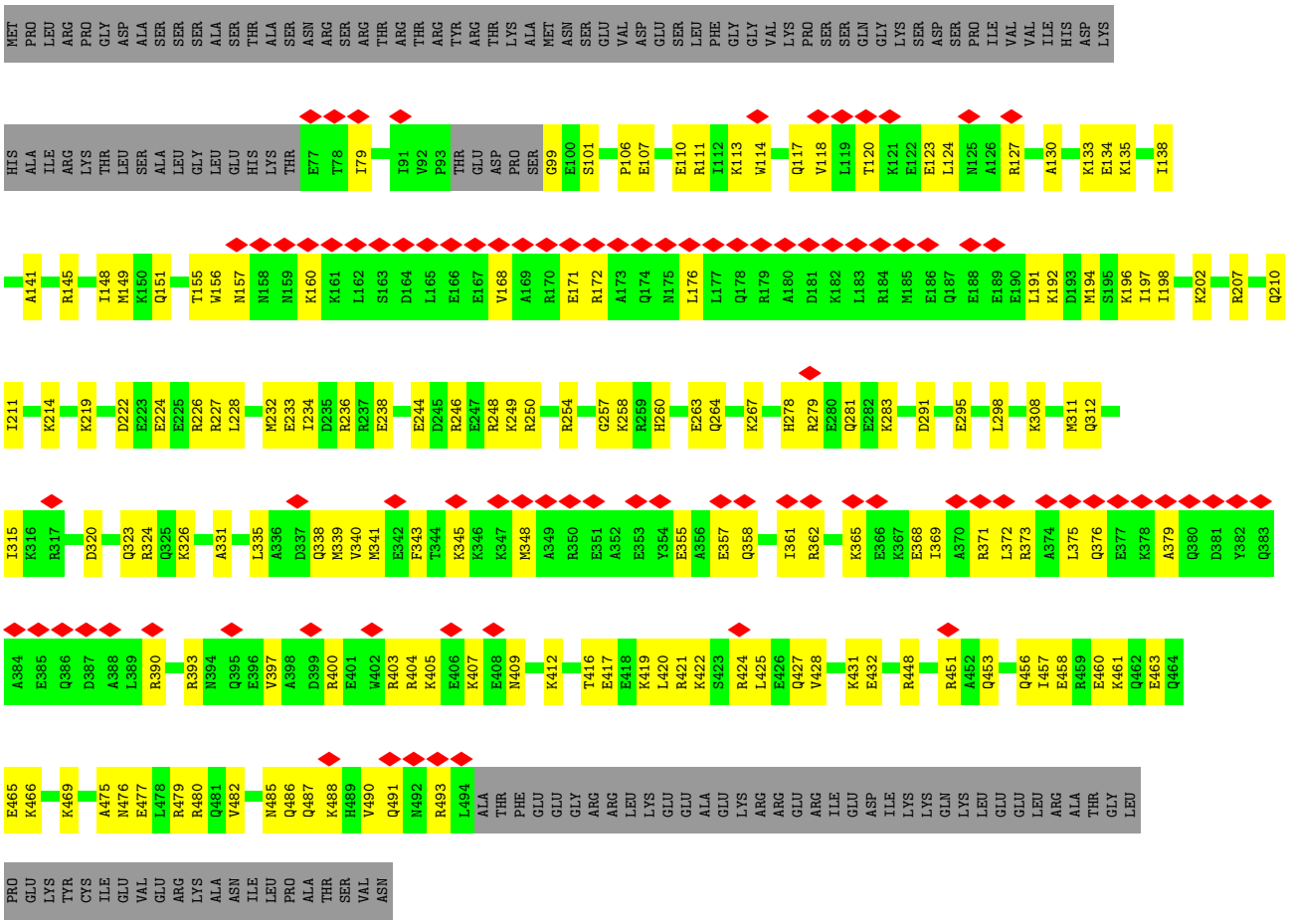
• Molecule 39: Cilia- and flagella-associated protein 45

Chain b:

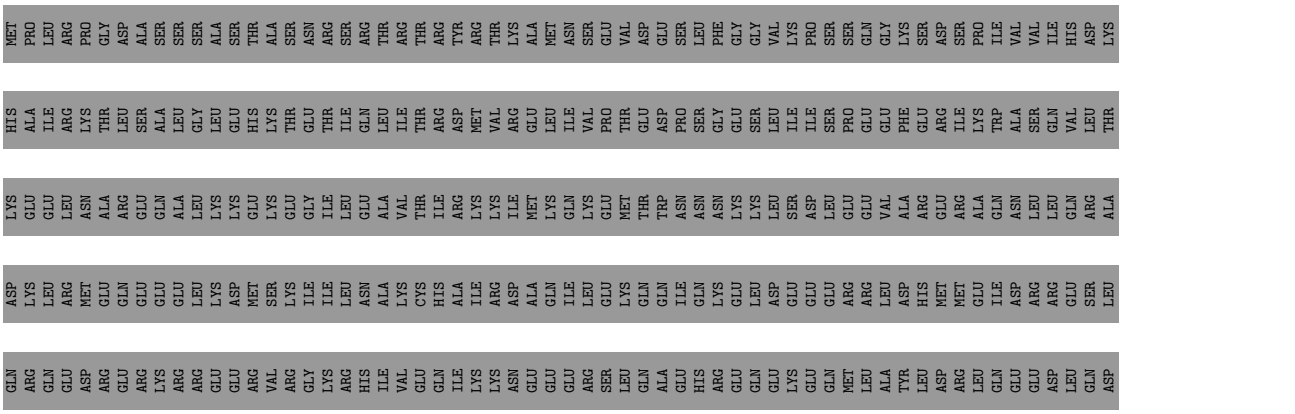


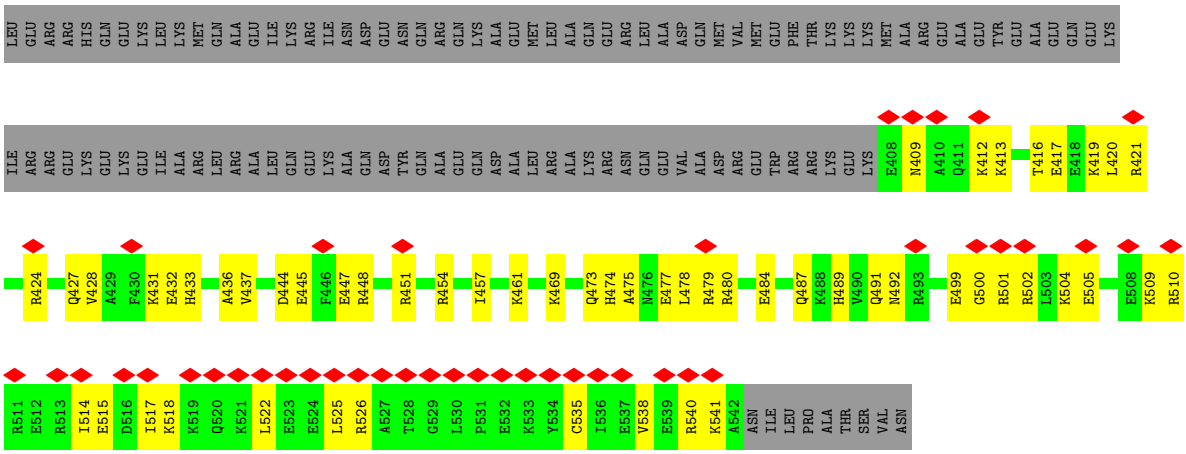


• Molecule 39: Cilia- and flagella-associated protein 45



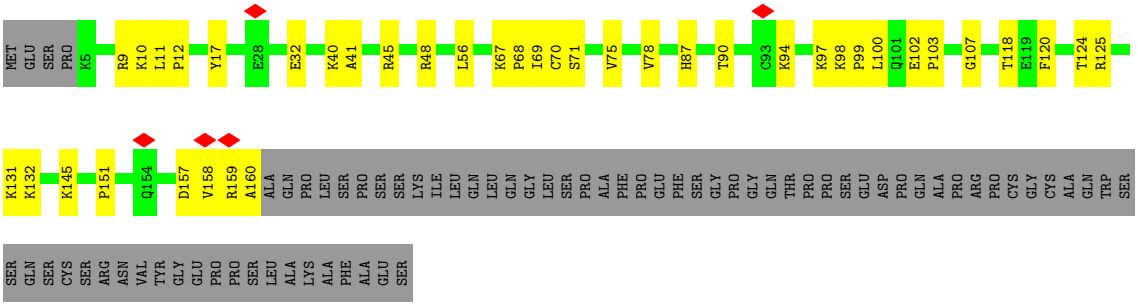
• Molecule 39: Cilia- and flagella-associated protein 45





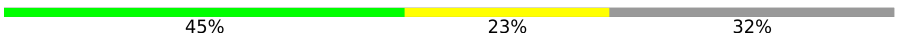
• Molecule 40: Uncharacterized protein C10orf82 homolog

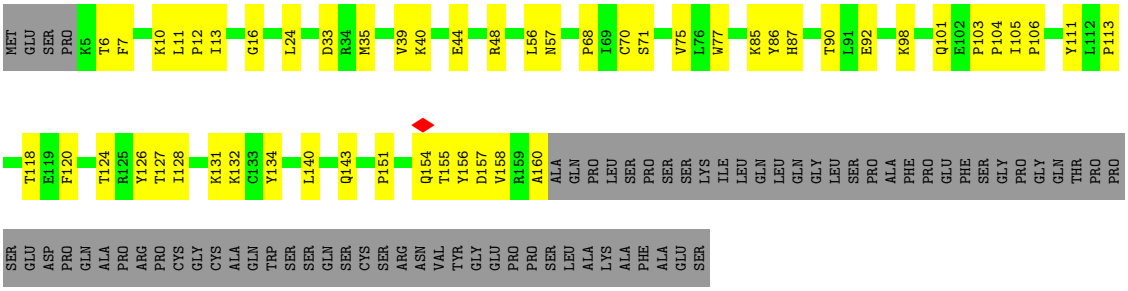
Chain a1:



• Molecule 40: Uncharacterized protein C10orf82 homolog

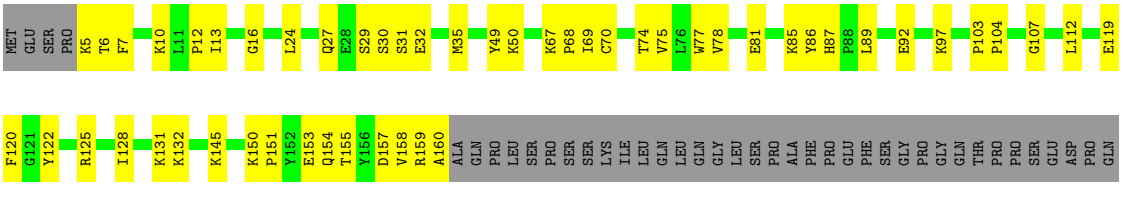
Chain a2:





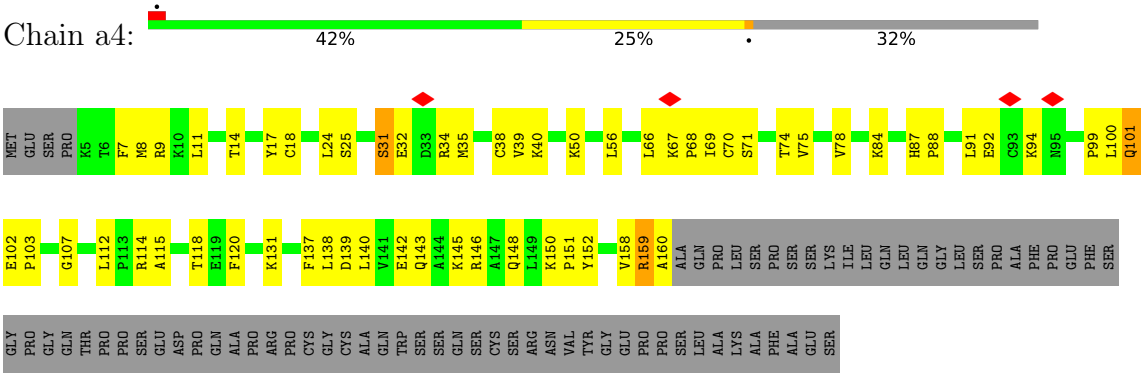
• Molecule 40: Uncharacterized protein C10orf82 homolog

Chain a3:



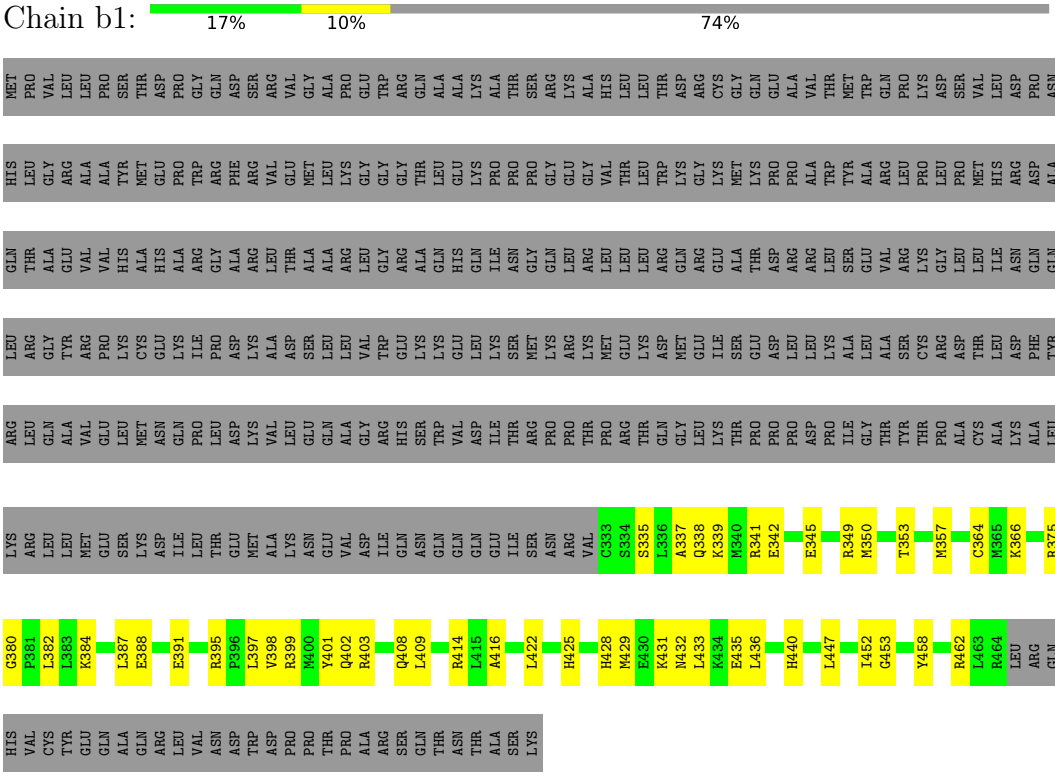
• Molecule 40: Uncharacterized protein C10orf82 homolog

Chain a4:



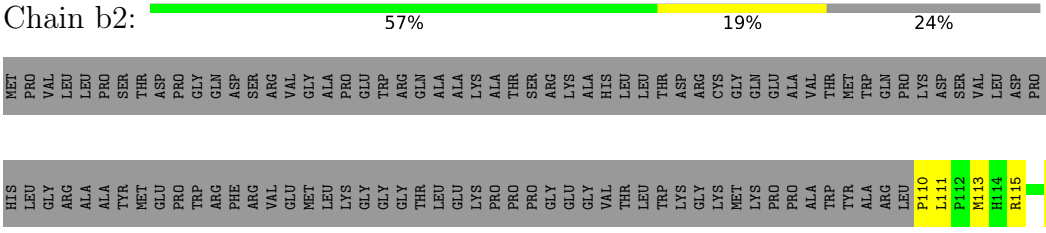
• Molecule 41: Coiled-coil domain-containing protein 105

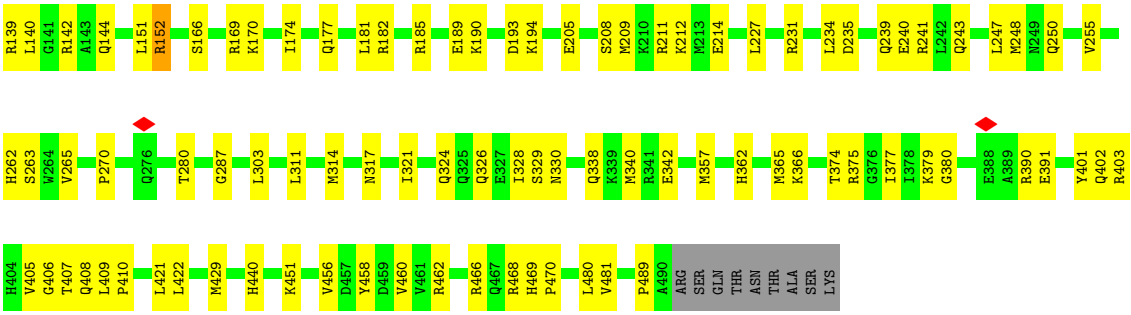
Chain b1:



• Molecule 41: Coiled-coil domain-containing protein 105

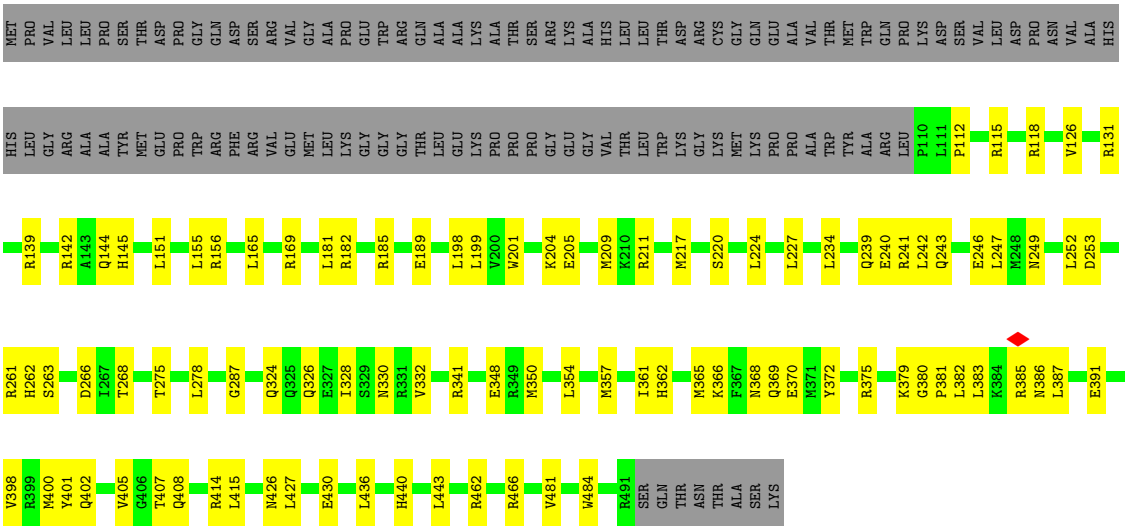
Chain b2:





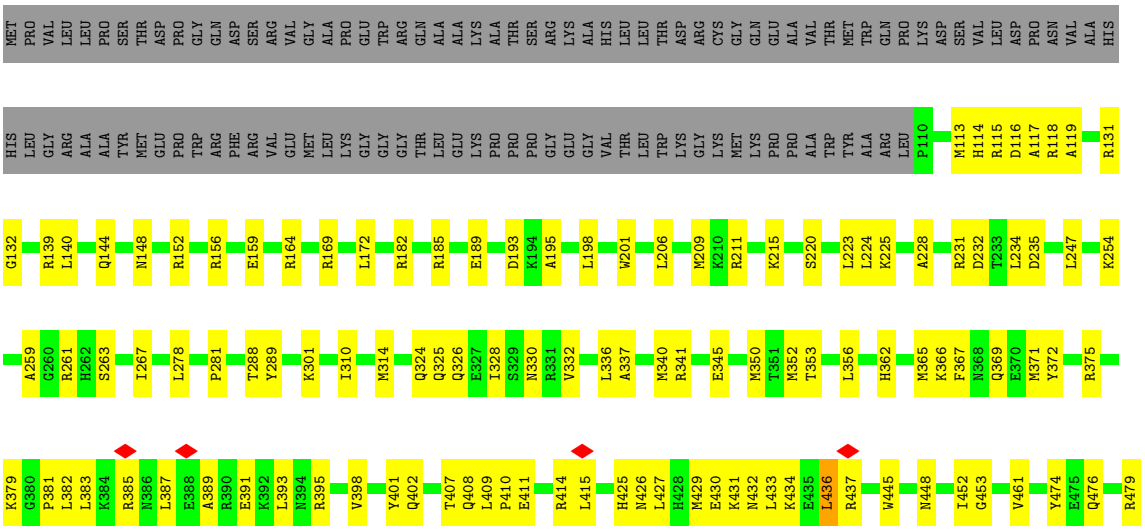
• Molecule 41: Coiled-coil domain-containing protein 105

Chain b3:



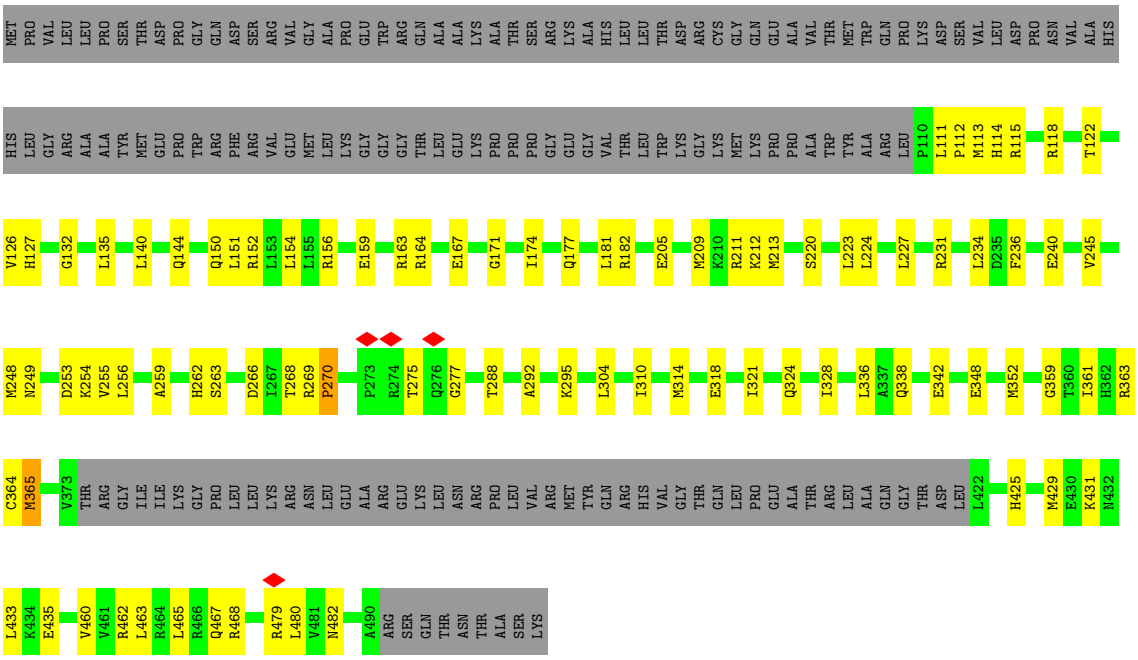
• Molecule 41: Coiled-coil domain-containing protein 105

Chain b4:



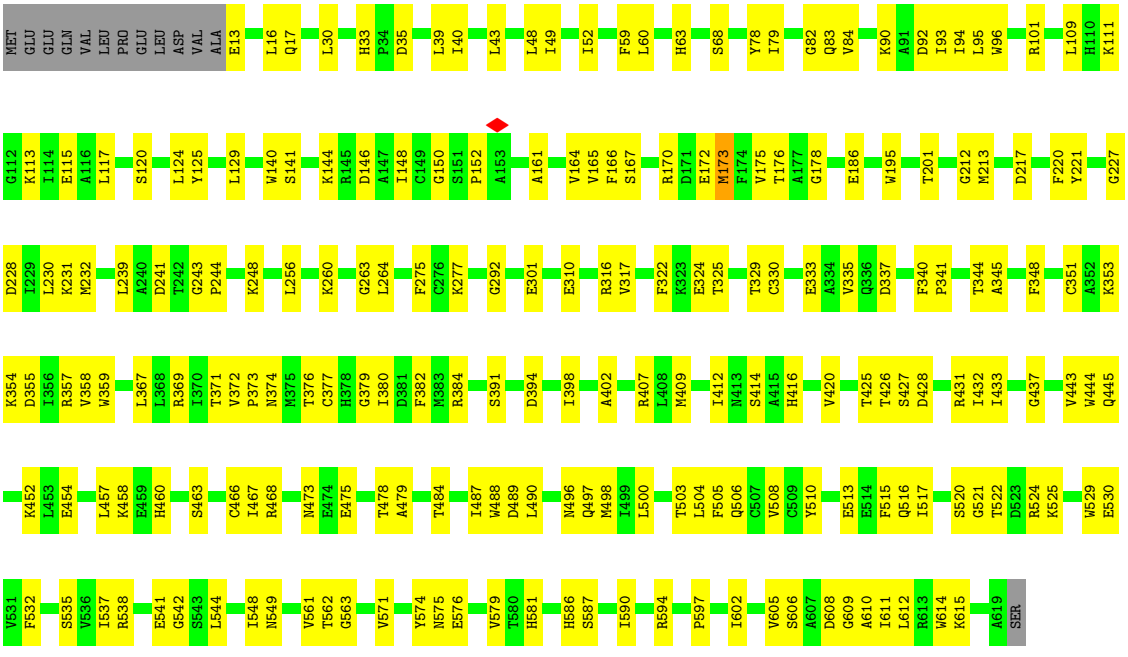
• Molecule 41: Coiled-coil domain-containing protein 105

Chain b5:



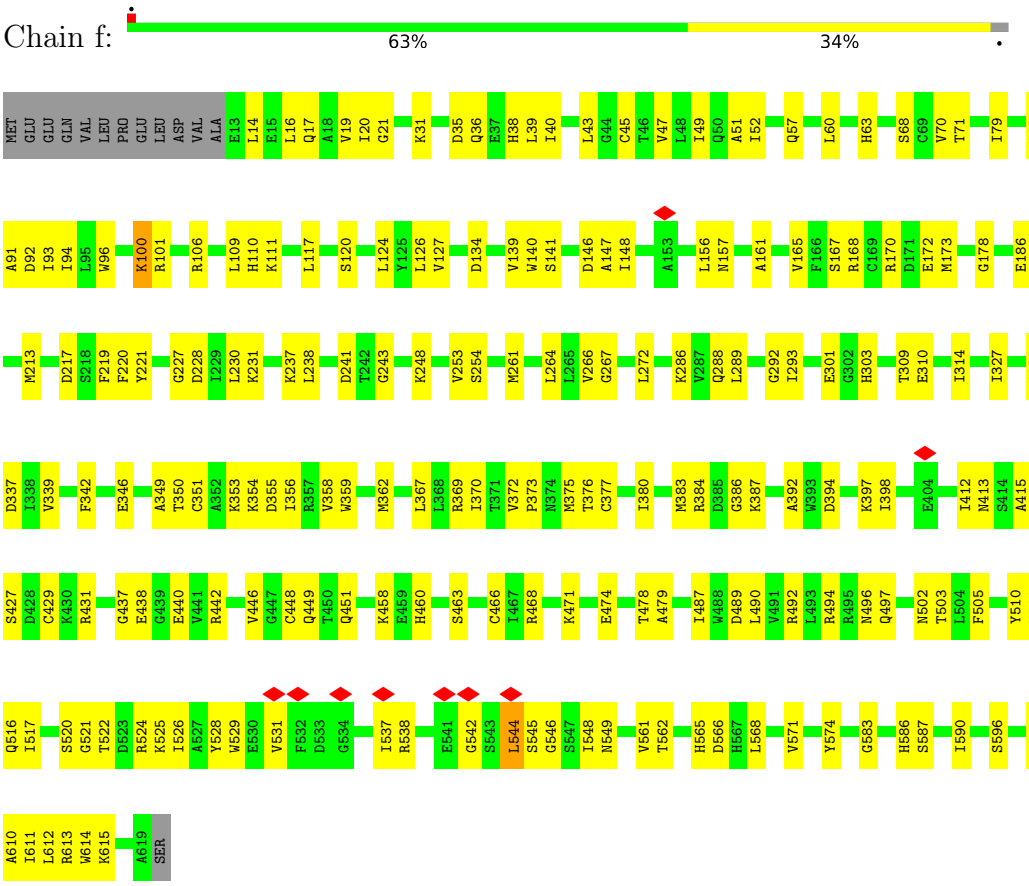
• Molecule 42: Cilia- and flagella-associated protein 52

Chain e:



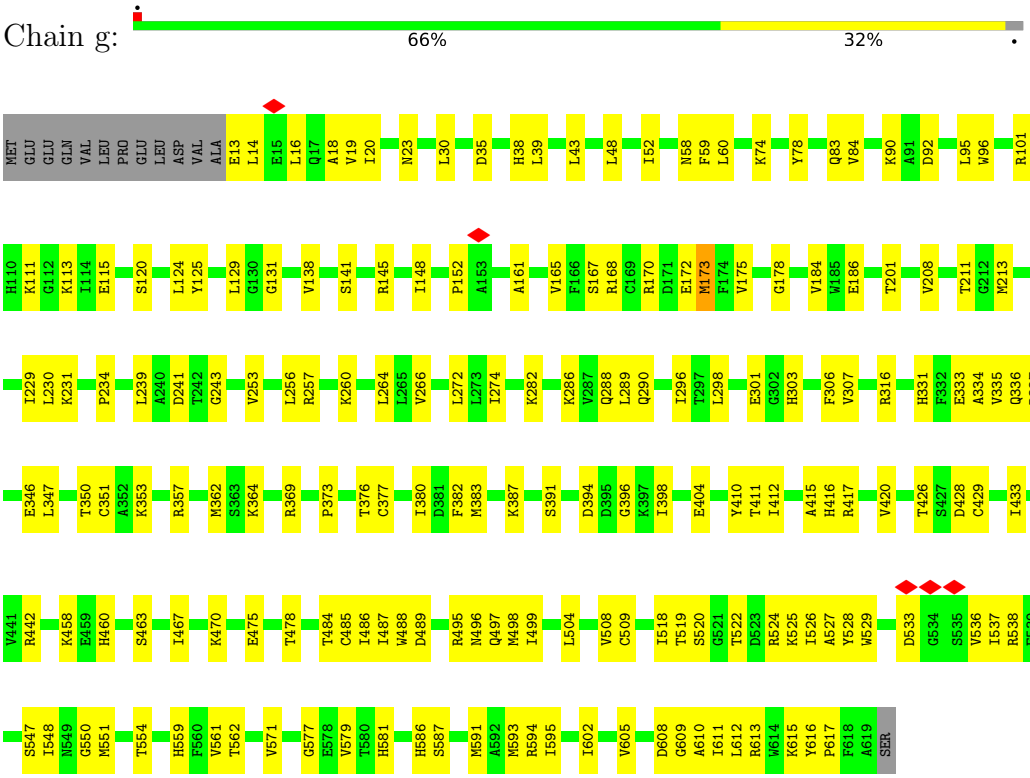
• Molecule 42: Cilia- and flagella-associated protein 52

Chain f:



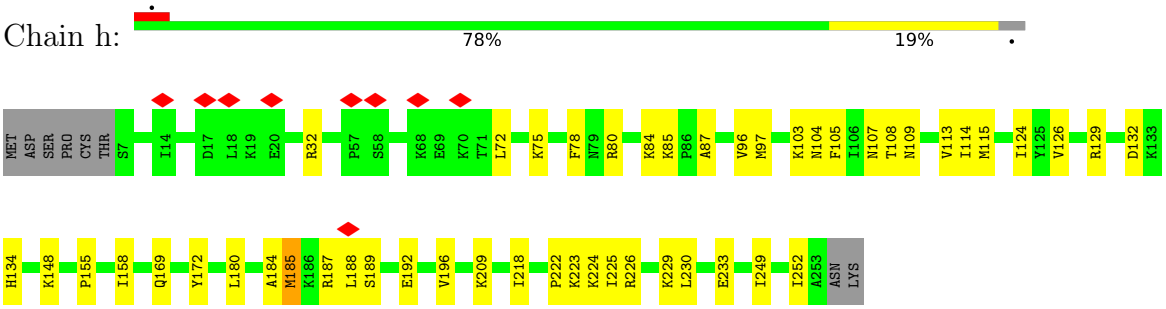
• Molecule 42: Cilia- and flagella-associated protein 52

Chain g:



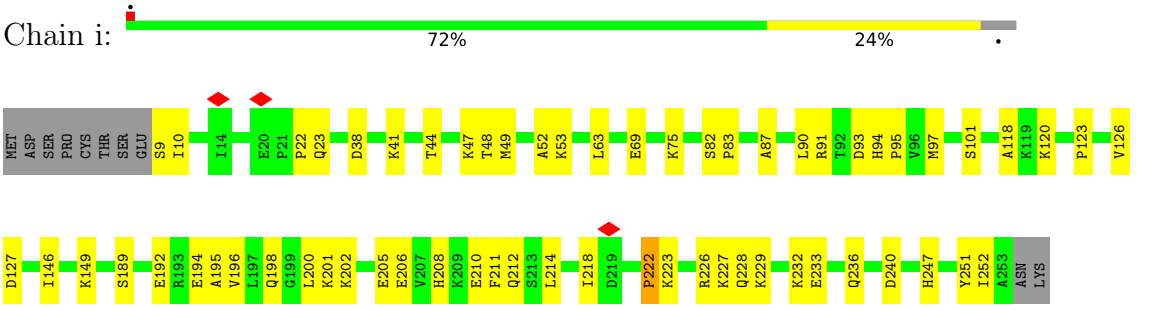
• Molecule 43: Enkurin

Chain h:



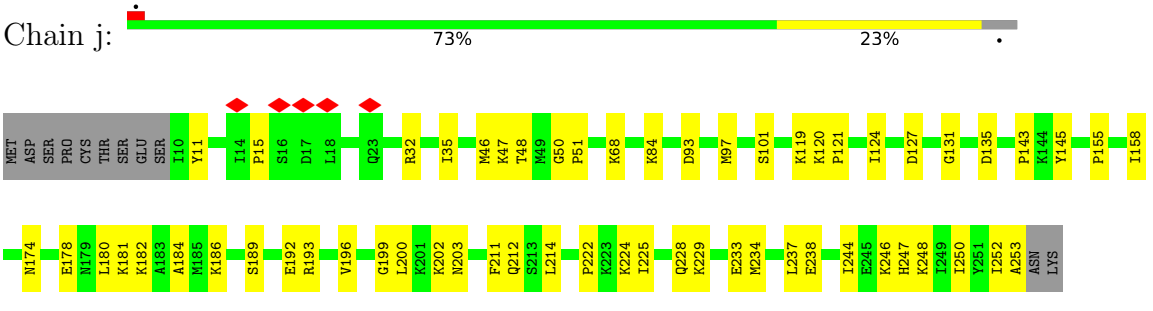
• Molecule 43: Enkurin

Chain i:



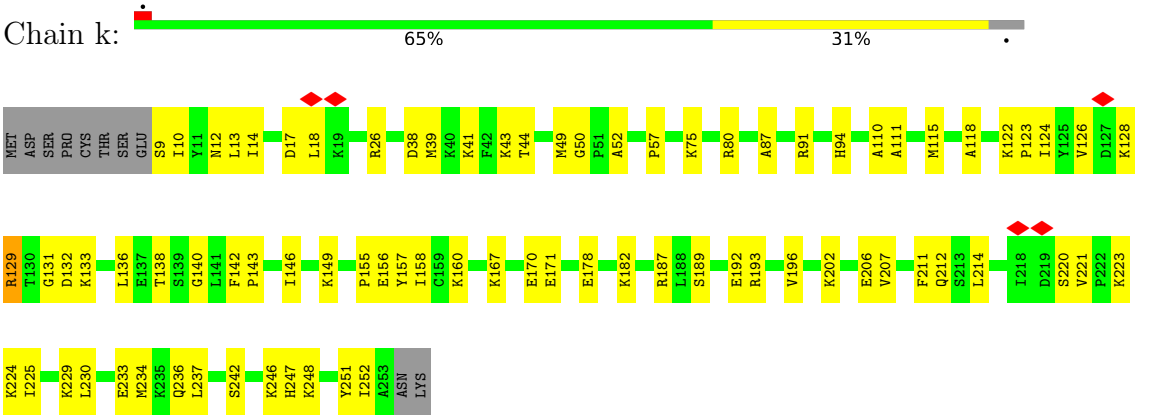
• Molecule 43: Enkurin

Chain j:



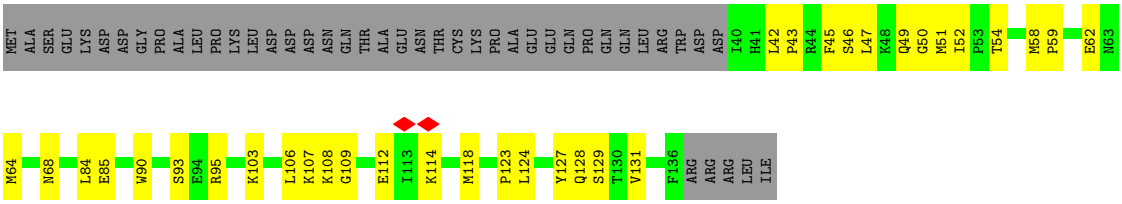
• Molecule 43: Enkurin

Chain k:



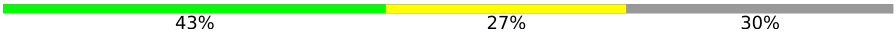
• Molecule 44: Testis-expressed protein 43

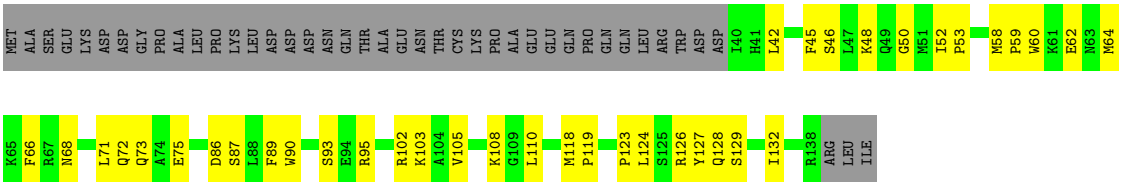
Chain h1:



• Molecule 44: Testis-expressed protein 43

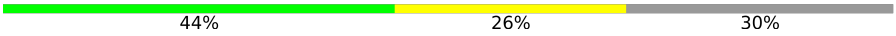
Chain h2:

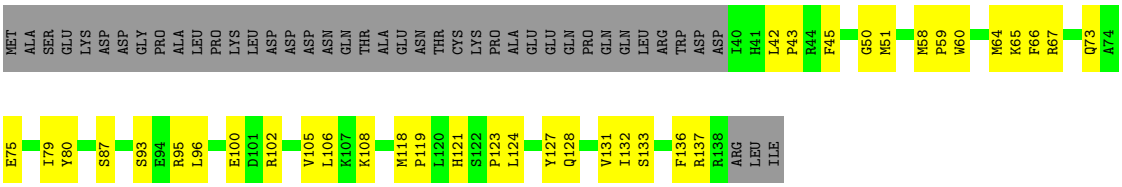




• Molecule 44: Testis-expressed protein 43

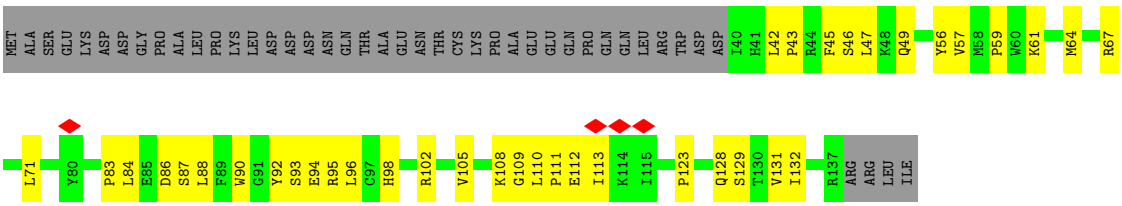
Chain h3:





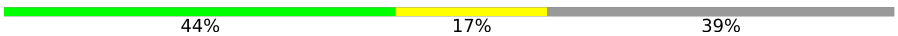
• Molecule 44: Testis-expressed protein 43

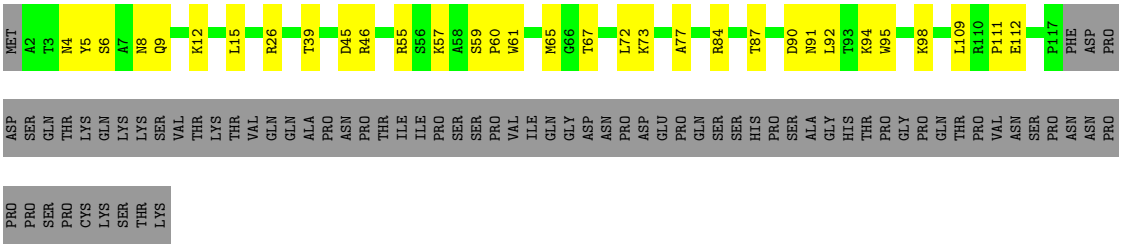
Chain h4:



• Molecule 45: Protein Flattop

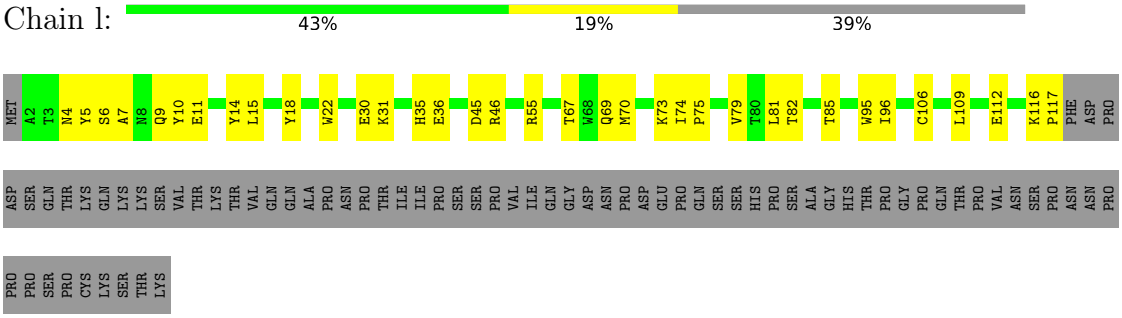
Chain i1:





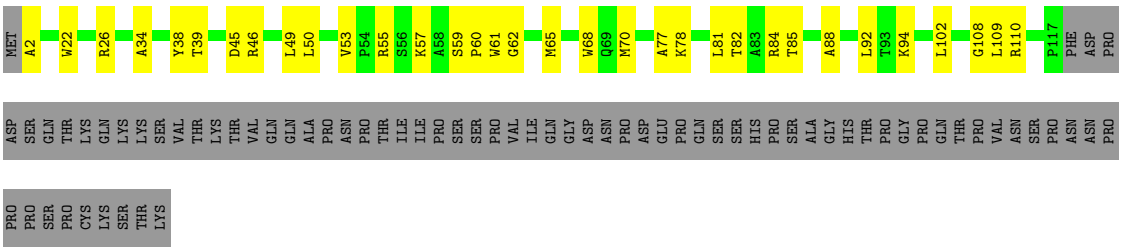
• Molecule 45: Protein Flattop

Chain l:



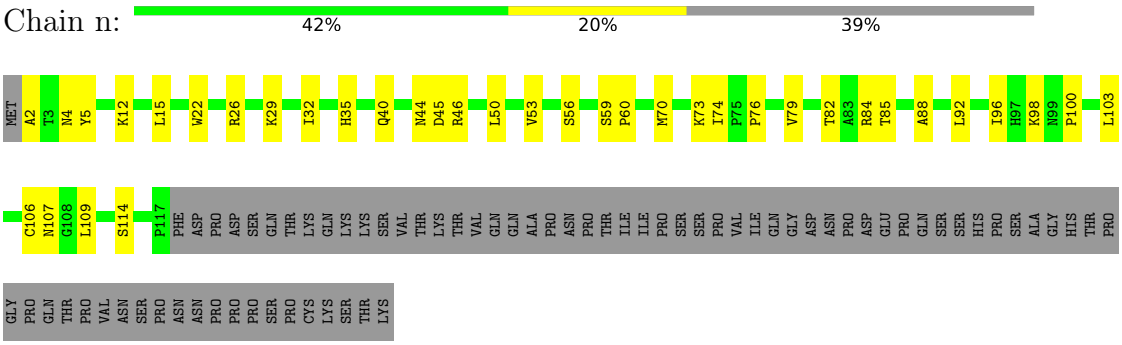
• Molecule 45: Protein Flattop

Chain m:



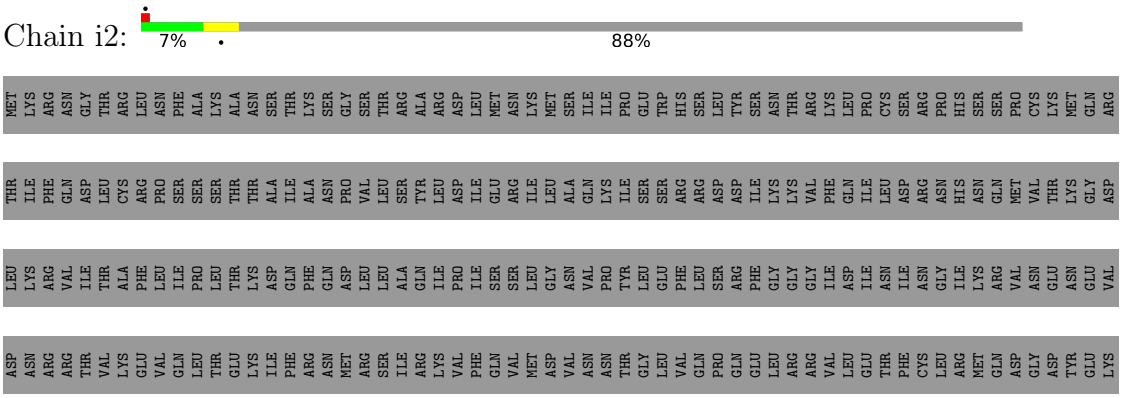
• Molecule 45: Protein Flattop

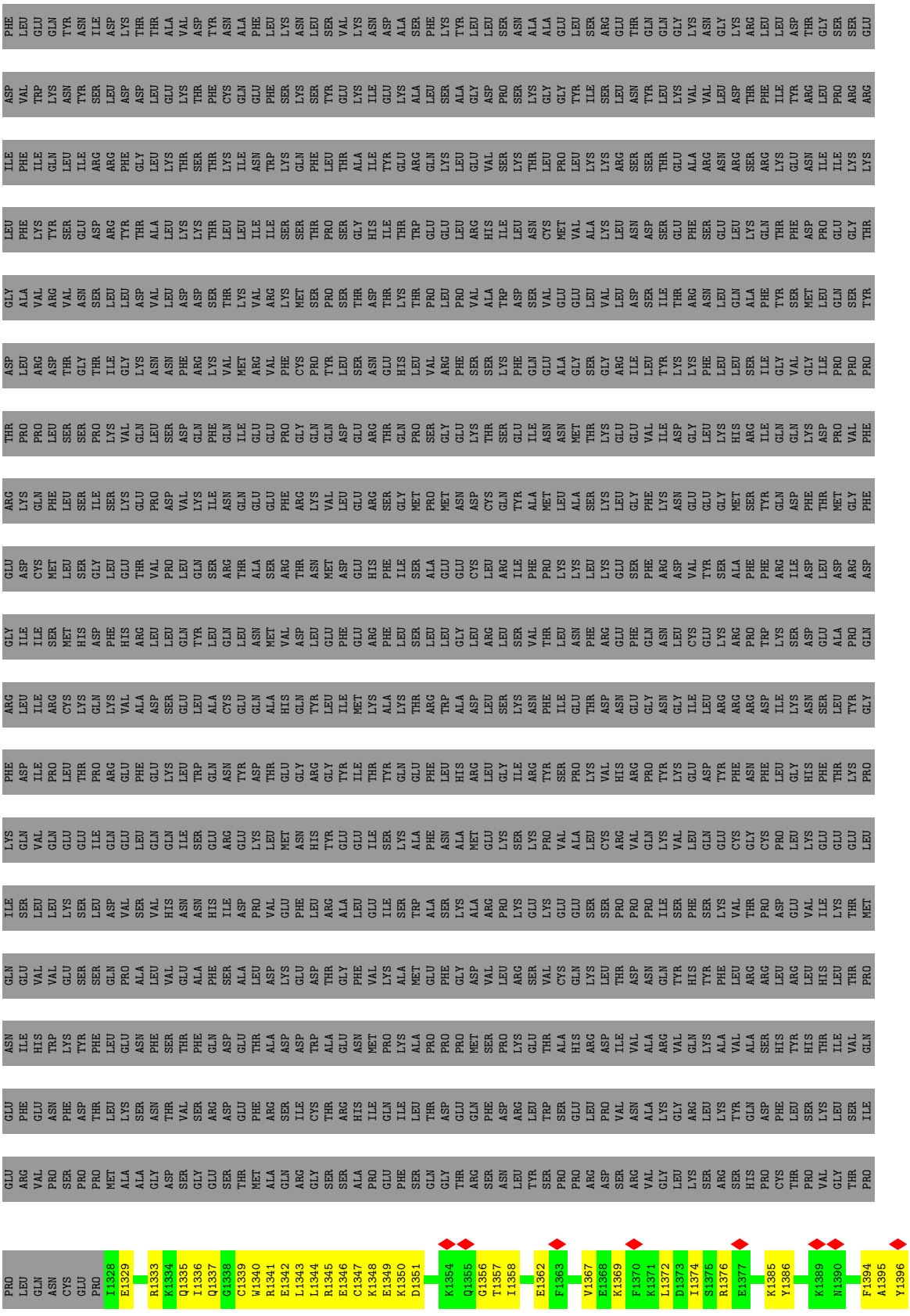
Chain n:



• Molecule 46: EF-hand calcium-binding domain-containing protein 6

Chain i2:




PRO I1328
LEU E1329
GLN R1333
ASN K1334
CYS Q1335
GLU I1336
PRO Q1337
G1338
C1339
W1340
R1341
E1342
L1343
L1344
R1345
E1346
C1347
K1348
E1349
K1350
D1351
K1354
Q1355
G1356
T1357
I1358
E1362
F1363
V1367
E1368
K1369
F1370
K1371
L1372
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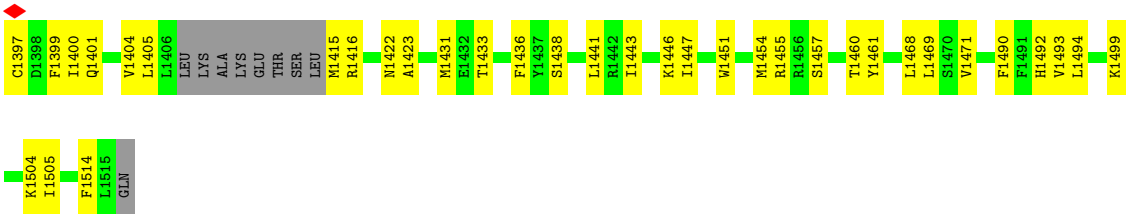
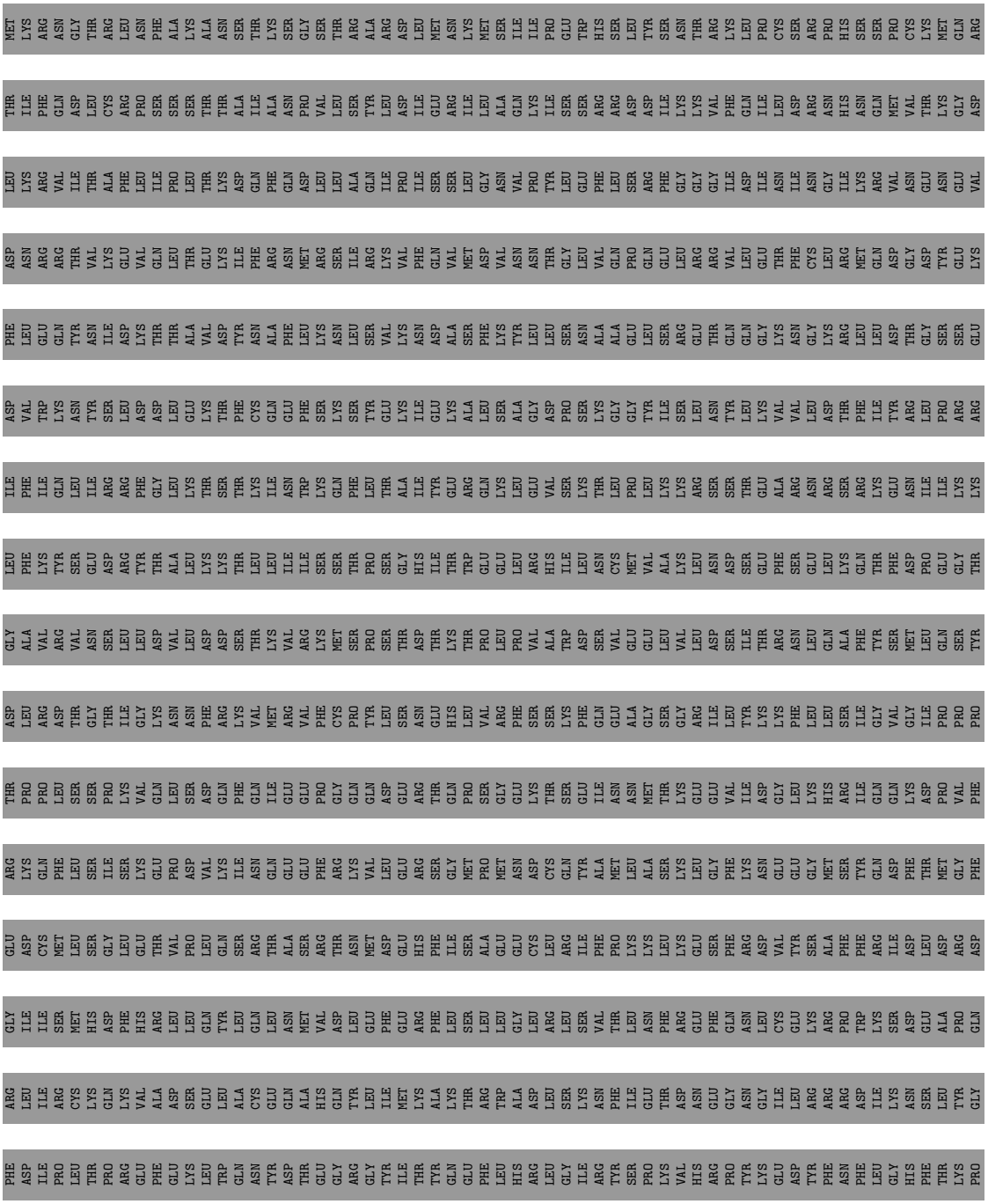
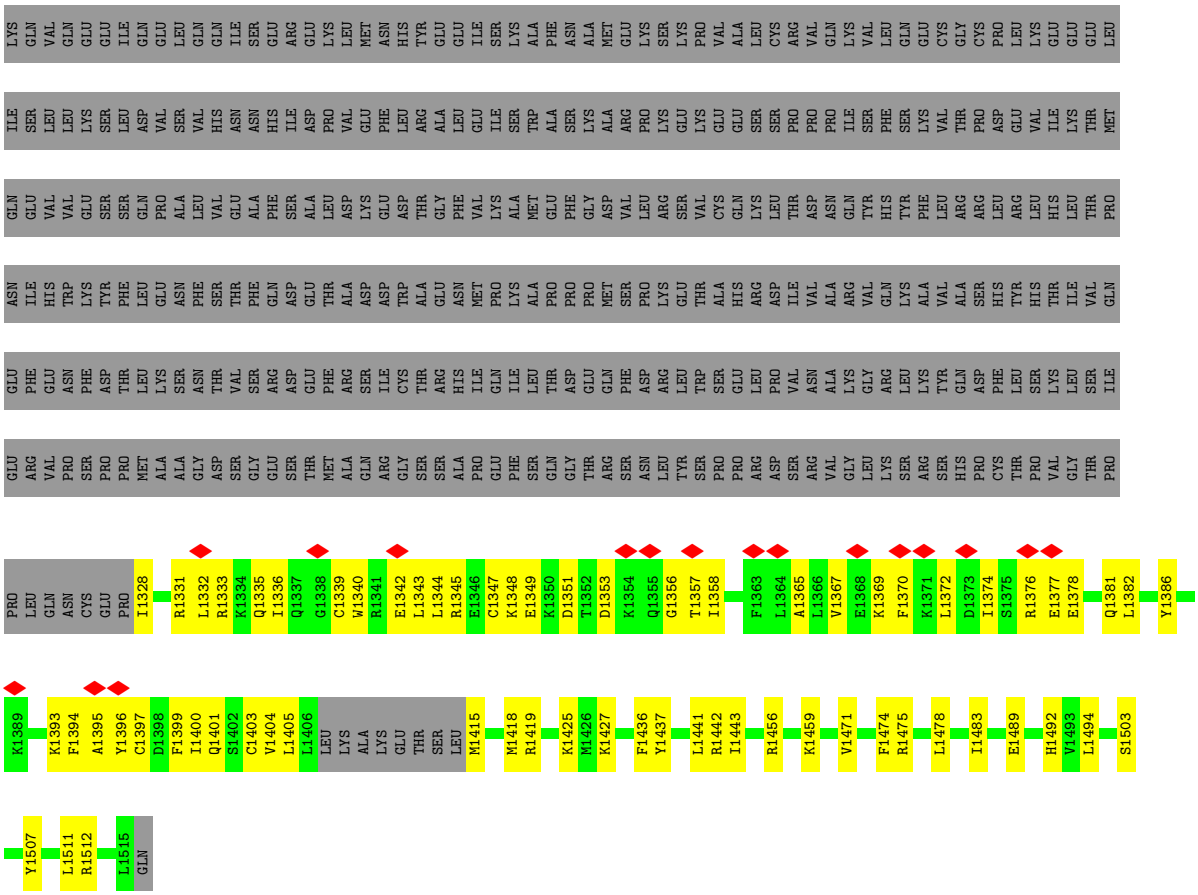
Y1386
K1389
N1390
F1394
A1395
Y1396



• Molecule 46: EF-hand calcium-binding domain-containing protein 6

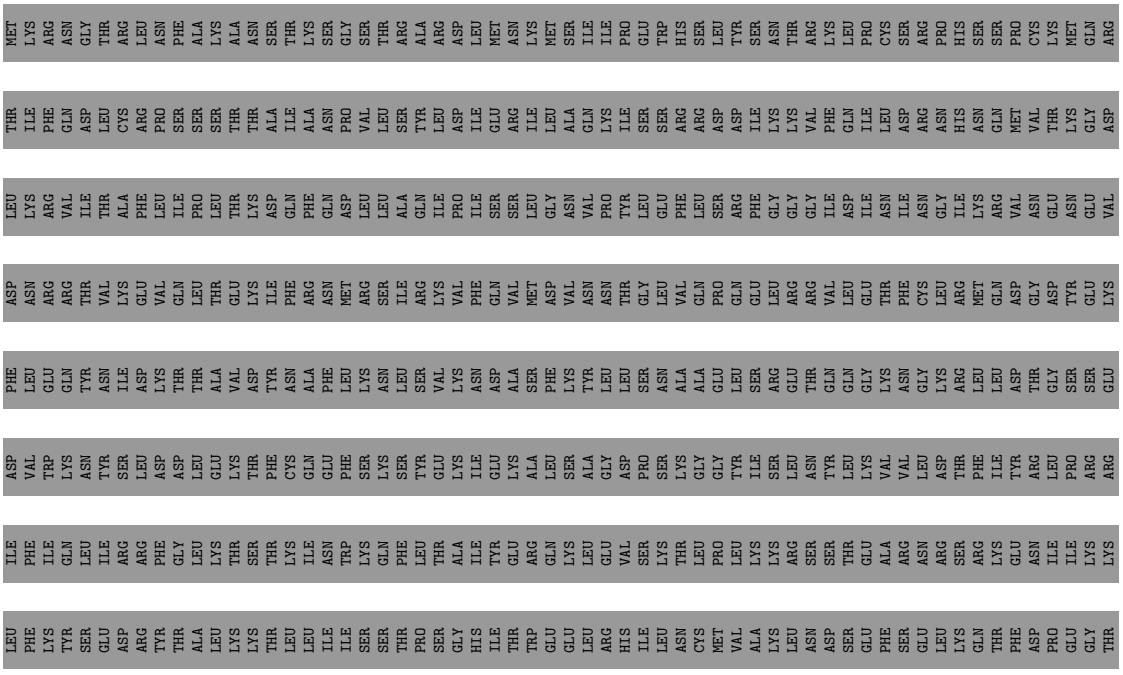
Chain i3:

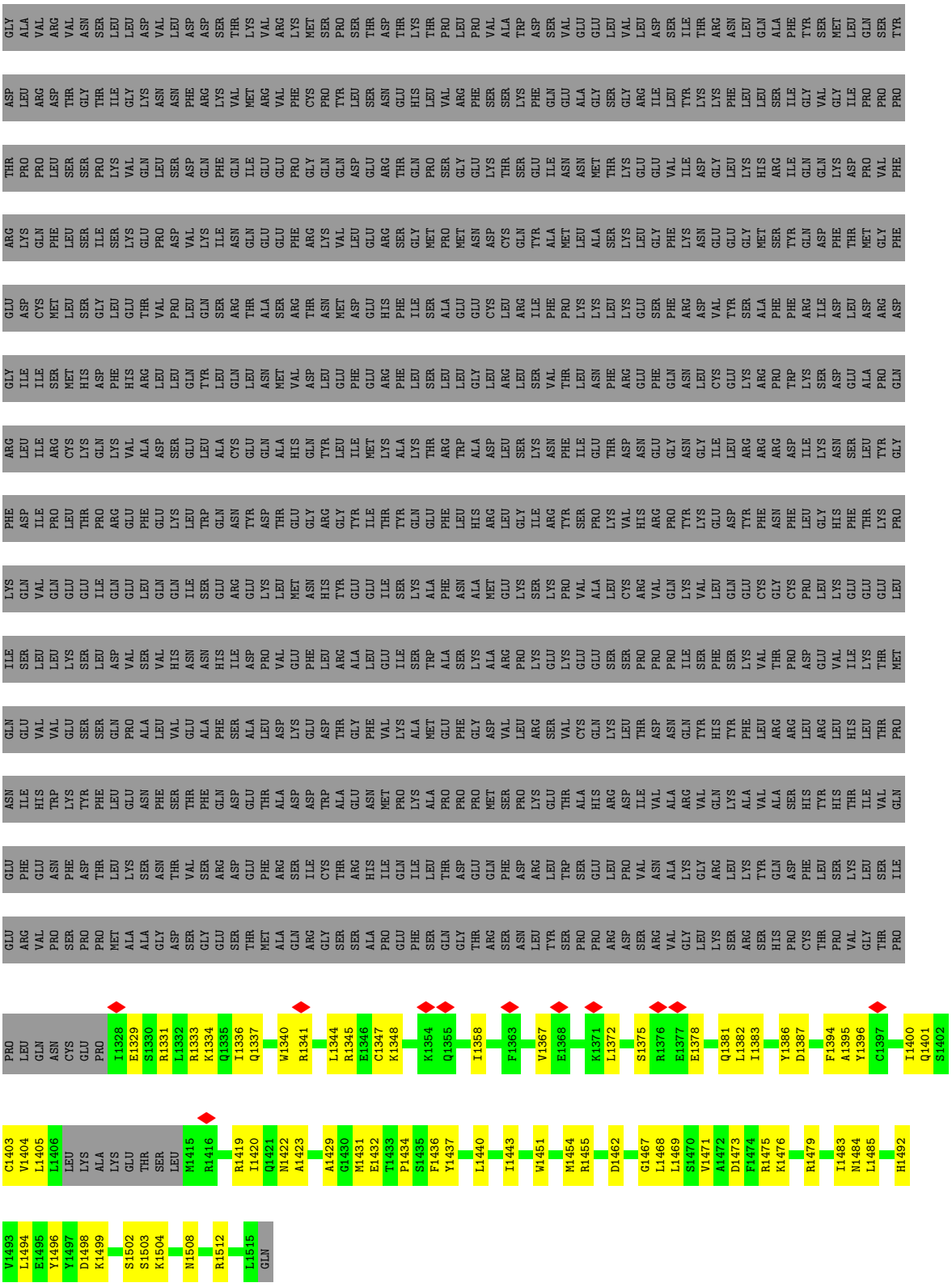




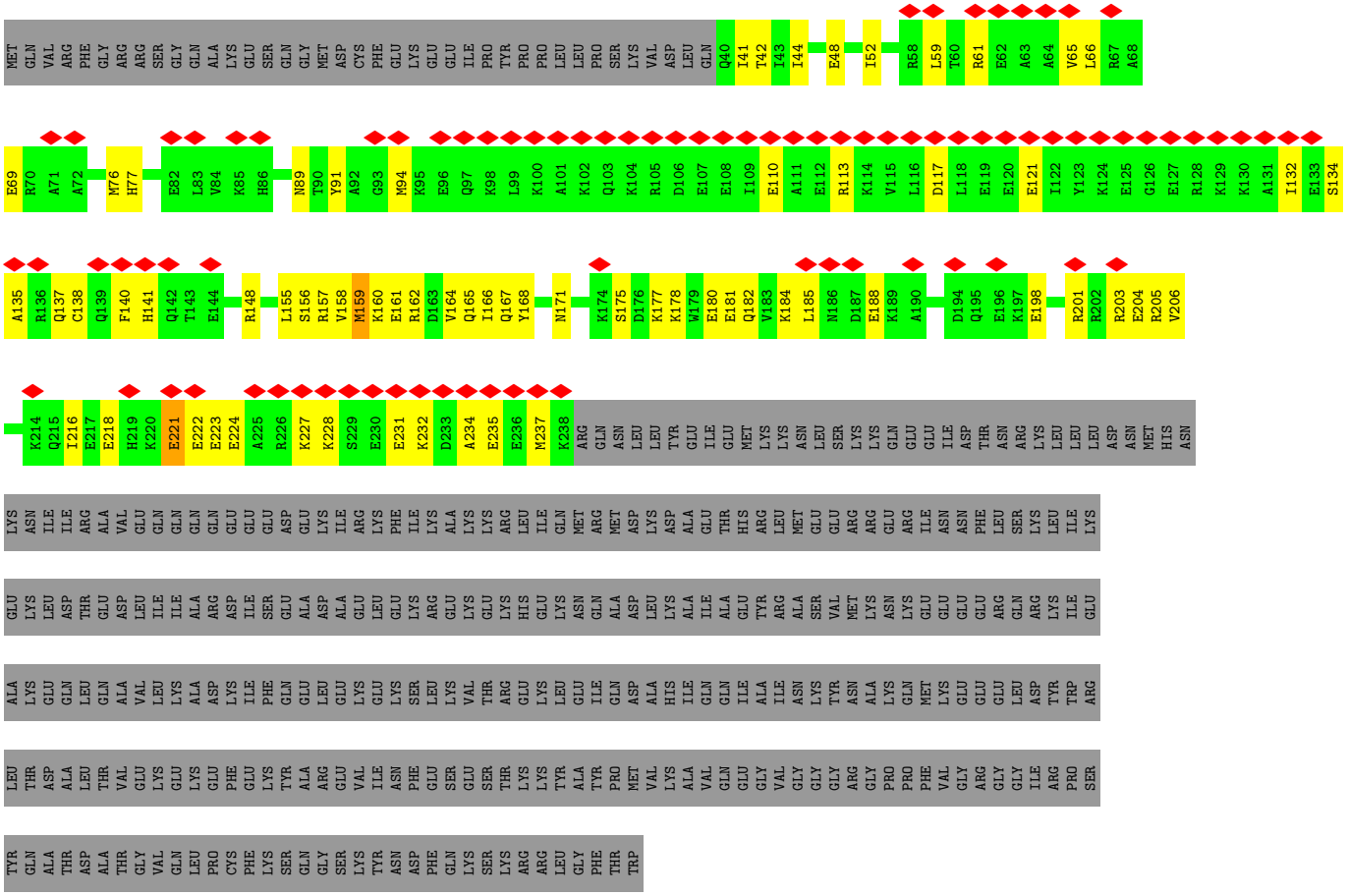
• Molecule 46: EF-hand calcium-binding domain-containing protein 6

Chain i4:



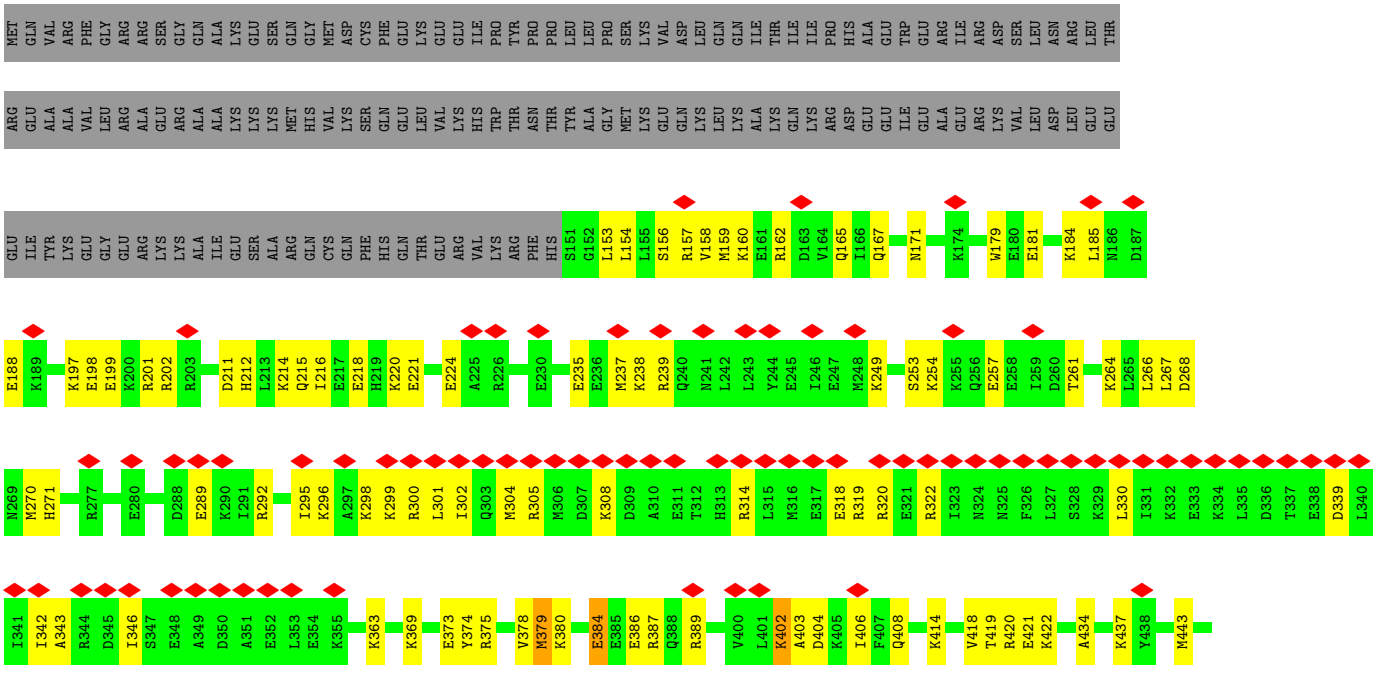


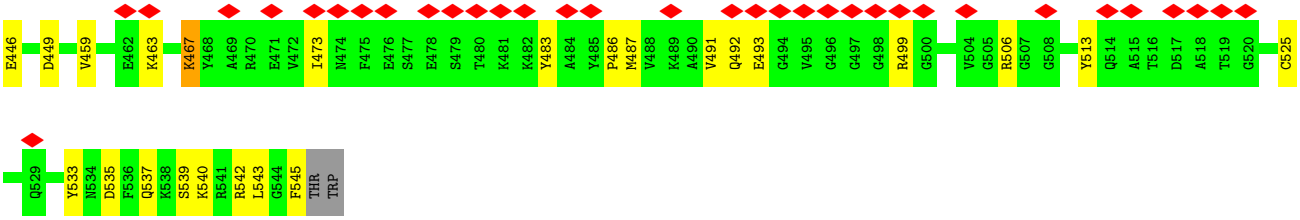
• Molecule 47: Cilia- and flagella-associated protein 210



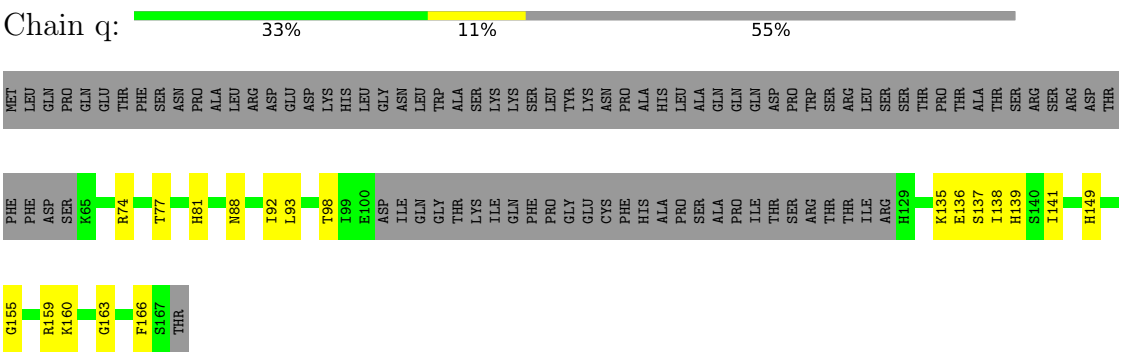
• Molecule 47: Cilia- and flagella-associated protein 210

Chain p:

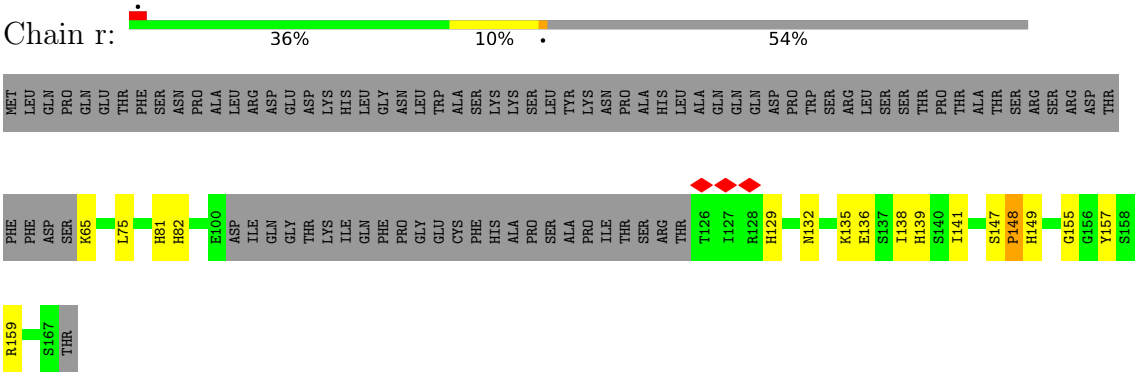




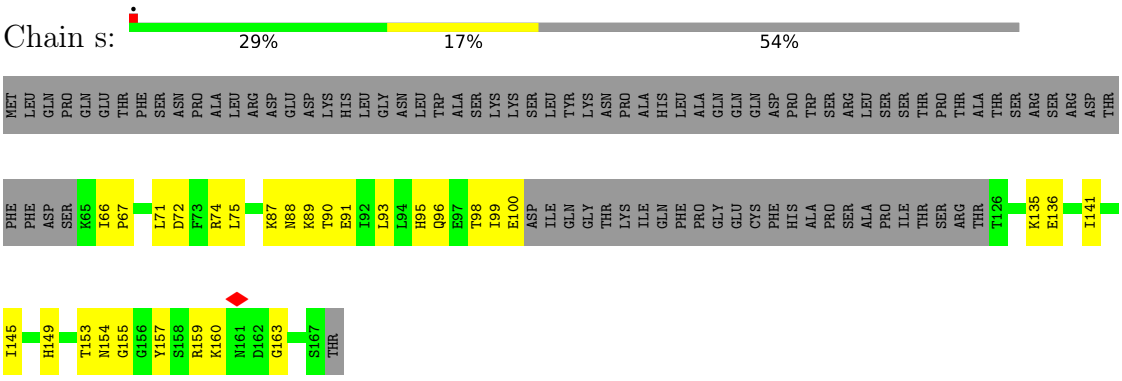
• Molecule 48: Cilia- and flagella-associated protein 276



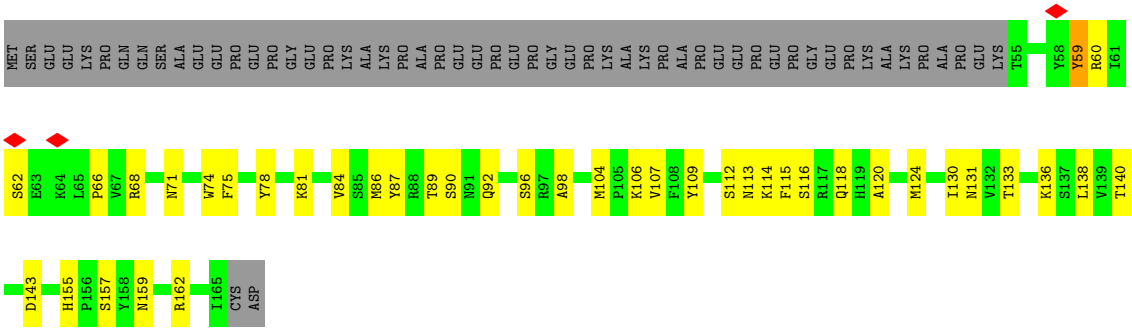
• Molecule 48: Cilia- and flagella-associated protein 276



• Molecule 48: Cilia- and flagella-associated protein 276



• Molecule 49: Piercer of microtubule wall 1 protein


MET SER GLU GLU LYS PRO GLN GLN SER ALA GLU GLU PRO GLU PRO GLY GLU PRO LYS ALA LYS PRO ALA PRO GLU GLU PRO GLU PRO GLY GLU PRO LYS ALA LYS PRO ALA PRO GLU GLU PRO GLU PRO GLY GLU GLU PRO LYS ALA LYS PRO ALA PRO GLU LYS T55 Y58 Y59 R60 I61
S62 E63 K64 L65 P66 W67 R68 N71 W74 F75 Y78 K81 V84 S85 M86 Y87 R88 T89 S90 N91 Q92 S96 R97 A98 M104 P105 K106 V107 F108 Y109 S112 N113 K114 F115 S116 R117 Q118 H119 A120 M124 I130 N131 V132 T133 K136 S137 L138 V139 T140
D143 H155 P156 S157 Y158 N159 R162 I165 CYS ASP

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	95290	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2600	Depositor
Magnification	81000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.821	Depositor
Minimum map value	0.000	Depositor
Average map value	0.073	Depositor
Map value standard deviation	0.176	Depositor
Recommended contour level	0.3	Depositor
Map size (Å)	576.11, 463.062, 869.60004	wwPDB
Map dimensions	530, 426, 800	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.087, 1.087, 1.087	Depositor

5 Model quality

5.1 Standard geometry

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	0	0.40	0/685	0.76	2/918 (0.2%)
1	7	0.29	0/1206	0.64	0/1629
2	1	0.22	0/3827	0.50	0/5169
2	2	0.30	0/2224	0.59	0/3010
3	3	0.34	0/4056	0.53	3/5386 (0.1%)
3	4	0.28	0/1237	0.56	0/1646
4	5	0.22	0/3038	0.46	0/4102
4	6	0.18	0/3038	0.44	0/4102
4	j1	0.25	0/3038	0.59	0/4102
5	8	0.29	0/1523	0.70	5/2073 (0.2%)
6	A	0.27	0/819	0.61	0/1097
6	N1	0.38	0/819	0.64	1/1097 (0.1%)
7	A0	0.35	0/449	0.59	0/605
7	A1	0.26	0/2965	0.42	0/3994
7	A2	0.25	0/3327	0.42	0/4483
7	A3	0.29	0/3327	0.46	0/4483
7	A4	0.25	0/3313	0.44	0/4465
7	A5	0.31	0/1419	0.54	0/1910
8	AA	0.16	0/3502	0.41	1/4755 (0.0%)
8	AC	0.19	0/3502	0.41	0/4755
8	AE	0.26	0/3509	0.57	1/4765 (0.0%)
8	AG	0.28	0/3518	0.52	0/4777
8	AI	0.25	0/3509	0.52	0/4765
8	AK	0.23	0/3496	0.44	0/4747
8	AM	0.24	0/3509	0.51	0/4765
8	AO	0.22	0/3509	0.49	0/4765
8	BC	0.18	0/3451	0.38	0/4686
8	BE	0.25	0/3518	0.55	3/4777 (0.1%)
8	BG	0.22	0/3473	0.47	0/4716
8	BI	0.25	0/3518	0.54	1/4777 (0.0%)
8	BK	0.24	0/3467	0.50	2/4708 (0.0%)
8	BM	0.24	0/3502	0.51	0/4755

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	BO	0.23	0/3473	0.52	1/4716 (0.0%)
8	CC	0.21	0/3502	0.43	1/4755 (0.0%)
8	CE	0.19	0/3502	0.47	1/4755 (0.0%)
8	CG	0.20	0/3502	0.43	0/4755
8	CI	0.22	0/3502	0.46	0/4755
8	CK	0.21	0/3502	0.42	0/4755
8	CM	0.25	0/3509	0.55	2/4765 (0.0%)
8	CO	0.18	0/3502	0.42	0/4755
8	CQ	0.21	0/3488	0.47	0/4736
8	DC	0.22	0/3459	0.45	1/4697 (0.0%)
8	DE	0.18	0/3443	0.42	0/4675
8	DG	0.23	0/3443	0.45	1/4675 (0.0%)
8	DI	0.21	0/3451	0.46	0/4686
8	DK	0.18	0/3450	0.36	0/4685
8	DM	0.16	0/3457	0.39	0/4694
8	DO	0.18	0/3449	0.41	0/4683
8	DQ	0.18	0/3437	0.40	0/4667
8	EA	0.21	0/3502	0.44	1/4755 (0.0%)
8	EC	0.17	0/3496	0.40	0/4747
8	EE	0.16	0/3502	0.37	0/4755
8	EG	0.16	0/3502	0.39	0/4755
8	EI	0.18	0/3502	0.42	1/4755 (0.0%)
8	EK	0.17	0/3502	0.38	0/4755
8	EM	0.15	0/3502	0.38	0/4755
8	EO	0.16	0/3488	0.42	0/4736
8	FA	0.21	0/3443	0.52	1/4675 (0.0%)
8	FC	0.20	0/3443	0.43	0/4675
8	FE	0.15	0/3443	0.38	0/4675
8	FG	0.20	0/3427	0.51	2/4652 (0.0%)
8	FI	0.22	0/3443	0.44	1/4675 (0.0%)
8	FK	0.16	0/3450	0.40	1/4685 (0.0%)
8	FM	0.17	0/3443	0.40	0/4675
8	FO	0.18	0/3432	0.47	1/4660 (0.0%)
8	GA	0.15	0/3445	0.38	0/4678
8	GC	0.19	0/3450	0.45	0/4685
8	GE	0.22	0/3450	0.48	0/4685
8	GG	0.25	0/3509	0.51	0/4765
8	GI	0.20	0/3464	0.46	0/4704
8	GK	0.22	0/3464	0.50	1/4704 (0.0%)
8	GM	0.22	0/3472	0.52	0/4715
8	GO	0.20	0/3472	0.51	0/4715
8	HA	0.21	0/3448	0.51	0/4682
8	HC	0.25	0/3466	0.56	0/4706

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	HE	0.23	0/3509	0.56	2/4765 (0.0%)
8	HG	0.27	1/3509 (0.0%)	0.51	0/4765
8	HI	0.21	0/3509	0.51	1/4765 (0.0%)
8	HK	0.23	0/3443	0.53	1/4675 (0.0%)
8	HM	0.27	0/3466	0.57	0/4706
8	HO	0.26	0/3458	0.57	0/4696
8	IA	0.21	0/3457	0.48	0/4694
8	IC	0.26	0/3509	0.57	0/4765
8	IE	0.25	0/3518	0.57	0/4777
8	IG	0.34	1/3464 (0.0%)	0.63	1/4704 (0.0%)
8	II	0.29	0/3476	0.58	2/4720 (0.0%)
8	IK	0.31	0/3488	0.58	1/4736 (0.0%)
8	IM	0.30	0/3468	0.61	4/4709 (0.1%)
8	IO	0.28	0/3509	0.59	0/4765
8	JC	0.21	0/3465	0.47	0/4704
8	JE	0.25	0/3502	0.55	1/4755 (0.0%)
8	JG	0.24	0/3437	0.51	1/4667 (0.0%)
8	JI	0.28	0/3467	0.60	1/4708 (0.0%)
8	JK	0.23	0/3458	0.50	1/4696 (0.0%)
8	JM	0.20	0/3443	0.45	0/4675
8	JO	0.26	0/3456	0.57	1/4693 (0.0%)
8	JQ	0.23	0/3480	0.55	0/4725
8	KA	0.20	0/3457	0.45	2/4694 (0.0%)
8	KC	0.23	0/3466	0.48	0/4705
8	KE	0.25	0/3474	0.52	1/4716 (0.0%)
8	KG	0.23	0/3457	0.47	1/4694 (0.0%)
8	KI	0.23	0/3451	0.47	0/4686
8	KK	0.22	0/3449	0.45	0/4683
8	KM	0.22	0/3457	0.52	1/4694 (0.0%)
8	KO	0.24	0/3466	0.50	0/4705
8	LA	0.21	0/3473	0.50	1/4716 (0.0%)
8	LC	0.24	0/3451	0.47	2/4686 (0.0%)
8	LE	0.28	1/3465 (0.0%)	0.51	2/4705 (0.0%)
8	LG	0.23	0/3518	0.46	0/4777
8	LI	0.23	0/3518	0.46	0/4777
8	LK	0.24	0/3518	0.48	1/4777 (0.0%)
8	LM	0.20	0/3481	0.45	0/4727
8	LO	0.21	0/3443	0.43	0/4675
8	MA	0.16	0/3451	0.39	0/4686
8	MC	0.21	0/3451	0.42	0/4686
8	ME	0.23	0/3502	0.45	0/4755
8	MG	0.22	0/3457	0.42	1/4694 (0.0%)
8	MI	0.24	0/3455	0.47	0/4691

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	MK	0.27	0/3467	0.49	1/4708 (0.0%)
8	MM	0.21	0/3457	0.43	0/4694
8	MO	0.19	0/3429	0.45	0/4656
8	NA	0.18	0/3430	0.44	0/4657
8	NC	0.15	0/3429	0.39	0/4656
8	NE	0.21	0/3471	0.46	0/4713
8	NG	0.23	0/3459	0.49	0/4697
8	NI	0.24	0/3450	0.50	0/4685
8	NK	0.25	0/3450	0.60	1/4685 (0.0%)
8	NM	0.30	0/3459	0.55	2/4697 (0.0%)
8	NO	0.20	0/3459	0.51	0/4697
8	OA	0.17	0/3451	0.44	0/4686
8	OC	0.17	0/3443	0.46	0/4675
8	OE	0.21	0/3449	0.49	0/4683
8	OG	0.20	0/3443	0.44	1/4675 (0.0%)
8	OI	0.22	0/3437	0.46	0/4667
8	OK	0.22	0/3451	0.53	1/4686 (0.0%)
8	OM	0.19	0/3429	0.45	0/4656
8	OO	0.21	0/3406	0.51	0/4624
8	PC	0.22	0/3429	0.51	1/4656 (0.0%)
8	PE	0.18	0/3406	0.47	1/4625 (0.0%)
8	PG	0.17	0/3443	0.42	1/4675 (0.0%)
8	PI	0.22	0/3443	0.47	1/4675 (0.0%)
8	PK	0.23	0/3443	0.52	0/4674
8	PM	0.21	0/3457	0.49	0/4694
8	PO	0.19	0/3443	0.47	0/4675
8	QC	0.19	0/3429	0.47	0/4656
8	QE	0.23	0/3443	0.48	0/4675
8	QG	0.19	0/3429	0.43	0/4656
8	QI	0.19	0/3421	0.47	0/4644
8	QK	0.17	0/3422	0.42	0/4646
8	QM	0.23	0/3414	0.52	1/4634 (0.0%)
8	QO	0.20	0/3422	0.45	0/4646
8	RC	0.16	0/3429	0.40	0/4656
8	RE	0.17	0/3429	0.42	1/4655 (0.0%)
8	RG	0.16	0/3429	0.43	2/4656 (0.0%)
8	RI	0.18	0/3437	0.46	4/4667 (0.1%)
8	RK	0.21	0/3445	0.49	2/4678 (0.0%)
8	RM	0.30	0/3437	0.57	1/4666 (0.0%)
8	RO	0.22	0/3429	0.50	2/4655 (0.0%)
8	SA	0.15	0/3436	0.44	1/4665 (0.0%)
8	SC	0.26	1/3429 (0.0%)	0.51	3/4656 (0.1%)
8	SE	0.19	0/3429	0.44	0/4656

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	SG	0.18	0/3422	0.45	0/4646
8	SI	0.30	1/3437 (0.0%)	0.57	3/4667 (0.1%)
8	SK	0.17	0/3422	0.42	0/4646
8	SM	0.21	0/3410	0.50	0/4630
8	TA	0.20	0/3419	0.52	1/4642 (0.0%)
8	TC	0.21	0/3414	0.52	0/4635
8	TE	0.21	0/3434	0.49	0/4662
8	TG	0.15	0/3418	0.38	0/4641
8	TI	0.20	0/3426	0.45	0/4652
8	TK	0.16	0/3429	0.43	0/4656
8	TM	0.20	0/3418	0.49	1/4641 (0.0%)
8	UA	0.20	0/3403	0.52	1/4619 (0.0%)
8	UC	0.19	0/3428	0.47	0/4654
8	UE	0.18	0/3428	0.45	0/4654
8	UG	0.16	0/3430	0.42	0/4657
8	UI	0.19	0/3429	0.43	0/4656
8	UK	0.18	0/3430	0.49	2/4657 (0.0%)
8	UM	0.22	0/3436	0.49	1/4665 (0.0%)
8	UO	0.18	0/3424	0.48	0/4649
8	VA	0.17	0/3422	0.44	1/4646 (0.0%)
8	VC	0.16	0/3488	0.41	0/4736
8	VE	0.20	0/3435	0.44	0/4664
8	VG	0.20	0/3488	0.51	1/4736 (0.0%)
8	VI	0.22	0/3437	0.54	1/4667 (0.0%)
8	VK	0.21	0/3496	0.47	1/4747 (0.0%)
8	VM	0.22	0/3435	0.50	1/4663 (0.0%)
8	VO	0.20	0/3481	0.45	2/4726 (0.0%)
8	WA	0.22	0/3481	0.50	0/4726
8	WC	0.18	0/3502	0.46	2/4755 (0.0%)
8	WE	0.18	0/3459	0.49	1/4696 (0.0%)
8	WG	0.16	0/3496	0.42	0/4747
8	WI	0.17	0/3502	0.42	0/4755
8	WK	0.19	0/3496	0.46	0/4747
8	WM	0.18	0/3451	0.47	0/4686
8	WO	0.18	0/3435	0.47	0/4664
9	AB	0.20	0/3466	0.45	1/4697 (0.0%)
9	AD	0.22	0/3488	0.47	0/4726
9	AF	0.22	0/3448	0.46	0/4673
9	AH	0.25	0/3479	0.49	0/4714
9	AJ	0.29	0/3479	0.55	2/4714 (0.0%)
9	AL	0.25	0/3479	0.50	0/4714
9	AN	0.22	0/3479	0.50	4/4714 (0.1%)
9	AP	0.20	0/3466	0.46	0/4697

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
9	BB	0.16	0/3436	0.39	0/4656
9	BD	0.18	0/3448	0.41	2/4673 (0.0%)
9	BF	0.24	0/3443	0.43	0/4666
9	BH	0.23	0/3448	0.44	0/4673
9	BJ	0.24	0/3457	0.45	1/4685 (0.0%)
9	BL	0.23	0/3448	0.46	0/4673
9	BN	0.20	0/3448	0.43	0/4673
9	BP	0.17	0/3448	0.43	0/4673
9	CB	0.22	0/3431	0.47	0/4649
9	CD	0.18	0/3457	0.43	0/4685
9	CF	0.20	0/3457	0.42	1/4685 (0.0%)
9	CH	0.20	0/3457	0.42	1/4685 (0.0%)
9	CJ	0.18	0/3436	0.41	0/4656
9	CL	0.25	0/3443	0.49	1/4666 (0.0%)
9	CN	0.19	0/3457	0.40	0/4685
9	CP	0.17	0/3448	0.42	0/4673
9	DB	0.17	0/3443	0.44	0/4666
9	DD	0.18	0/3443	0.42	0/4666
9	DF	0.17	0/3448	0.41	1/4673 (0.0%)
9	DH	0.17	0/3448	0.40	1/4673 (0.0%)
9	DJ	0.18	0/3448	0.39	1/4673 (0.0%)
9	DL	0.17	0/3457	0.40	1/4685 (0.0%)
9	DN	0.16	0/3436	0.40	0/4656
9	DP	0.15	0/3448	0.41	0/4673
9	EB	0.21	0/3436	0.43	1/4656 (0.0%)
9	ED	0.16	0/3436	0.40	0/4656
9	EF	0.18	0/3436	0.42	0/4656
9	EH	0.17	0/3436	0.41	1/4656 (0.0%)
9	EJ	0.18	0/3431	0.42	0/4649
9	EL	0.16	0/3436	0.42	0/4656
9	EN	0.17	0/3436	0.41	1/4656 (0.0%)
9	FB	0.23	0/3448	0.51	3/4673 (0.1%)
9	FD	0.18	0/3448	0.44	2/4673 (0.0%)
9	FF	0.17	0/3448	0.41	0/4673
9	FH	0.17	0/3448	0.44	0/4673
9	FJ	0.22	0/3443	0.44	1/4666 (0.0%)
9	FL	0.17	0/3443	0.40	1/4666 (0.0%)
9	FN	0.17	0/3448	0.43	0/4673
9	GB	0.19	0/3431	0.45	2/4649 (0.0%)
9	GD	0.22	1/3448 (0.0%)	0.49	2/4673 (0.0%)
9	GF	0.18	0/3448	0.41	2/4673 (0.0%)
9	GH	0.19	0/3457	0.43	1/4685 (0.0%)
9	GJ	0.20	0/3448	0.42	0/4673

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
9	GL	0.25	0/3457	0.47	0/4685
9	GN	0.21	0/3457	0.47	2/4685 (0.0%)
9	HB	0.23	1/3448 (0.0%)	0.49	0/4673
9	HD	0.26	0/3431	0.52	0/4649
9	HF	0.24	1/3448 (0.0%)	0.46	2/4673 (0.0%)
9	HH	0.23	0/3457	0.48	3/4685 (0.1%)
9	HJ	0.26	0/3448	0.54	0/4673
9	HL	0.25	0/3457	0.52	0/4685
9	HN	0.24	0/3448	0.48	1/4673 (0.0%)
9	HP	0.24	0/3431	0.53	0/4649
9	IB	0.25	0/3448	0.54	2/4673 (0.0%)
9	ID	0.23	0/3448	0.53	2/4673 (0.0%)
9	IF	0.27	1/3448 (0.0%)	0.52	1/4673 (0.0%)
9	IH	0.29	0/3457	0.58	2/4685 (0.0%)
9	IJ	0.20	0/3443	0.45	2/4666 (0.0%)
9	IL	0.31	1/3457 (0.0%)	0.60	3/4685 (0.1%)
9	IN	0.26	0/3457	0.53	0/4685
9	IP	0.29	1/3457 (0.0%)	0.61	4/4685 (0.1%)
9	JB	0.22	0/3431	0.50	2/4649 (0.0%)
9	JD	0.25	0/3431	0.56	1/4649 (0.0%)
9	JF	0.29	0/3431	0.59	2/4649 (0.0%)
9	JH	0.29	0/3431	0.57	2/4649 (0.0%)
9	JJ	0.24	0/3431	0.53	1/4649 (0.0%)
9	JL	0.25	0/3431	0.57	2/4649 (0.0%)
9	JN	0.25	0/3423	0.50	2/4638 (0.0%)
9	JP	0.23	0/3431	0.51	1/4649 (0.0%)
9	KB	0.25	0/3448	0.49	1/4673 (0.0%)
9	KD	0.24	0/3457	0.51	0/4685
9	KF	0.22	0/3457	0.43	1/4685 (0.0%)
9	KH	0.21	0/3457	0.45	0/4685
9	KJ	0.22	0/3448	0.46	0/4673
9	KL	0.23	0/3448	0.52	3/4673 (0.1%)
9	KN	0.22	0/3448	0.49	3/4673 (0.1%)
9	KP	0.23	0/3436	0.52	1/4656 (0.0%)
9	LB	0.25	0/3509	0.52	2/4754 (0.0%)
9	LD	0.22	0/3457	0.40	0/4685
9	LF	0.25	0/3527	0.51	2/4778 (0.0%)
9	LH	0.24	0/3457	0.44	0/4685
9	LJ	0.24	0/3509	0.50	1/4754 (0.0%)
9	LL	0.22	0/3436	0.44	0/4656
9	LN	0.19	0/3466	0.44	0/4697
9	LP	0.16	0/3443	0.39	0/4666
9	MB	0.21	0/3457	0.46	1/4685 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
9	MD	0.24	0/3457	0.45	0/4685
9	MF	0.21	0/3431	0.44	0/4649
9	MH	0.23	0/3457	0.43	0/4685
9	MJ	0.24	0/3448	0.46	2/4673 (0.0%)
9	ML	0.23	0/3448	0.46	0/4673
9	MN	0.20	0/3457	0.44	0/4685
9	MP	0.21	0/3457	0.44	0/4685
9	NB	0.17	0/3436	0.44	0/4656
9	ND	0.19	0/3457	0.46	0/4685
9	NF	0.28	0/3436	0.55	1/4656 (0.0%)
9	NH	0.23	0/3431	0.49	0/4649
9	NJ	0.27	0/3448	0.58	2/4673 (0.0%)
9	NL	0.26	0/3436	0.54	2/4656 (0.0%)
9	NN	0.22	0/3448	0.50	0/4673
9	NP	0.16	0/3431	0.42	1/4649 (0.0%)
9	OB	0.22	0/3436	0.49	0/4656
9	OD	0.19	0/3436	0.48	0/4656
9	OF	0.26	0/3443	0.52	0/4666
9	OH	0.27	1/3436 (0.0%)	0.53	1/4656 (0.0%)
9	OJ	0.28	0/3443	0.62	2/4666 (0.0%)
9	OL	0.22	0/3431	0.47	2/4649 (0.0%)
9	ON	0.21	0/3431	0.46	0/4649
9	OP	0.22	0/3423	0.52	2/4638 (0.0%)
9	PB	0.19	0/3436	0.44	0/4656
9	PD	0.24	0/3436	0.55	5/4656 (0.1%)
9	PF	0.18	0/3436	0.47	1/4656 (0.0%)
9	PH	0.22	0/3436	0.51	1/4656 (0.0%)
9	PJ	0.21	0/3431	0.50	1/4649 (0.0%)
9	PL	0.18	0/3436	0.46	2/4656 (0.0%)
9	PN	0.18	0/3436	0.44	0/4656
9	PP	0.15	0/3431	0.41	0/4649
9	QB	0.25	0/3423	0.51	0/4638
9	QD	0.19	0/3431	0.48	1/4649 (0.0%)
9	QF	0.18	0/3431	0.45	1/4649 (0.0%)
9	QH	0.23	0/3431	0.51	0/4649
9	QJ	0.20	0/3431	0.49	1/4649 (0.0%)
9	QL	0.16	0/3431	0.43	0/4649
9	QN	0.22	0/3431	0.49	2/4649 (0.0%)
9	QP	0.20	0/3423	0.47	0/4638
9	RD	0.16	0/3436	0.44	1/4656 (0.0%)
9	RF	0.15	0/3436	0.41	1/4656 (0.0%)
9	RH	0.16	0/3436	0.39	0/4656
9	RJ	0.19	0/3436	0.43	0/4656

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
9	RL	0.22	0/3436	0.48	2/4656 (0.0%)
9	RN	0.16	0/3431	0.41	0/4649
9	RP	0.15	0/3436	0.40	0/4656
9	SB	0.16	0/3423	0.42	0/4638
9	SD	0.19	0/3436	0.43	0/4656
9	SF	0.21	0/3423	0.46	0/4638
9	SH	0.19	0/3431	0.45	1/4649 (0.0%)
9	SJ	0.20	0/3431	0.49	0/4649
9	SL	0.17	0/3423	0.45	0/4638
9	SN	0.16	0/3423	0.43	0/4638
9	TB	0.20	0/3423	0.46	0/4638
9	TD	0.22	1/3423 (0.0%)	0.50	2/4638 (0.0%)
9	TF	0.17	0/3423	0.43	1/4638 (0.0%)
9	TH	0.20	0/3431	0.47	3/4649 (0.1%)
9	TJ	0.19	0/3436	0.44	0/4656
9	TL	0.24	0/3431	0.47	1/4649 (0.0%)
9	TN	0.19	0/3423	0.45	1/4638 (0.0%)
9	UB	0.18	0/3423	0.49	1/4638 (0.0%)
9	UD	0.16	0/3423	0.39	0/4638
9	UF	0.18	0/3423	0.43	0/4638
9	UH	0.19	0/3431	0.44	0/4649
9	UJ	0.21	0/3431	0.46	0/4649
9	UL	0.17	0/3423	0.40	0/4638
9	UN	0.16	0/3423	0.44	2/4638 (0.0%)
9	VB	0.16	0/3423	0.37	0/4638
9	VD	0.15	0/3423	0.42	1/4638 (0.0%)
9	VF	0.20	0/3423	0.47	0/4638
9	VH	0.18	0/3431	0.48	0/4649
9	VJ	0.20	0/3431	0.51	1/4649 (0.0%)
9	VL	0.18	0/3436	0.44	2/4656 (0.0%)
9	VN	0.19	0/3423	0.53	1/4638 (0.0%)
9	WB	0.19	0/3431	0.45	0/4649
9	WD	0.16	0/3431	0.40	0/4649
9	WF	0.21	0/3448	0.49	3/4673 (0.1%)
9	WH	0.19	0/3436	0.43	0/4656
9	WJ	0.18	0/3436	0.47	0/4656
9	WL	0.19	0/3431	0.43	2/4649 (0.0%)
9	WN	0.19	0/3431	0.46	1/4649 (0.0%)
9	WP	0.20	0/3431	0.48	0/4649
10	B	0.24	0/2787	0.53	2/3696 (0.1%)
10	C	0.31	0/2427	0.59	0/3218
11	B0	0.33	0/340	0.76	1/457 (0.2%)
11	B1	0.28	0/3018	0.53	1/4069 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
11	B2	0.31	0/3440	0.53	1/4638 (0.0%)
11	B3	0.32	0/3440	0.52	1/4638 (0.0%)
11	B4	0.25	0/3451	0.47	2/4652 (0.0%)
11	B5	0.34	0/1691	0.71	4/2274 (0.2%)
11	R0	0.27	0/1625	0.49	0/2184
11	R1	0.23	0/3451	0.49	1/4652 (0.0%)
11	R2	0.27	0/3451	0.49	1/4652 (0.0%)
11	R3	0.29	0/3451	0.49	0/4652
11	R4	0.32	0/3059	0.60	4/4124 (0.1%)
11	R5	0.33	0/372	0.63	0/500
12	C0	0.27	0/1476	0.45	0/1991
12	C1	0.30	0/3399	0.44	0/4581
12	C2	0.27	0/3399	0.40	0/4581
12	C3	0.27	0/3376	0.41	0/4550
12	C4	0.25	0/2978	0.40	1/4010 (0.0%)
12	C5	0.30	0/422	0.76	3/567 (0.5%)
12	C6	0.25	0/364	0.53	0/493
12	S0	0.28	0/2719	0.54	0/3665
12	S1	0.20	0/3666	0.39	0/4944
12	S2	0.23	0/3666	0.43	0/4944
12	S3	0.31	0/3666	0.55	2/4944 (0.0%)
12	S4	0.27	0/2485	0.48	0/3344
12	S5	0.25	0/2610	0.48	1/3522 (0.0%)
12	S6	0.24	0/3504	0.43	0/4728
12	S7	0.30	0/3504	0.48	0/4728
12	S8	0.32	0/3485	0.53	0/4702
12	S9	0.33	0/2252	0.61	1/3028 (0.0%)
13	D	0.22	0/642	0.57	0/879
13	K3	0.23	0/1500	0.61	2/2037 (0.1%)
14	D0	0.26	0/906	0.50	0/1219
14	D1	0.29	0/3416	0.47	1/4598 (0.0%)
14	D2	0.29	0/3529	0.49	0/4752
14	D3	0.28	0/3529	0.46	0/4752
14	D4	0.27	0/3529	0.47	1/4752 (0.0%)
14	D5	0.47	0/720	0.94	4/965 (0.4%)
14	T0	0.40	0/976	0.79	1/1319 (0.1%)
14	T1	0.20	0/3645	0.46	0/4913
14	T2	0.33	1/3645 (0.0%)	0.58	4/4913 (0.1%)
14	T3	0.29	0/3658	0.49	0/4931
14	T4	0.31	0/3305	0.51	0/4450
14	T5	0.38	0/983	0.80	2/1319 (0.2%)
15	E	0.23	0/2415	0.48	0/3259
15	F	0.20	0/2406	0.49	0/3247

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
15	N2	0.20	0/2406	0.46	0/3247
16	G	0.24	0/747	0.61	0/1015
17	H	0.27	0/1356	0.57	1/1840 (0.1%)
17	I	0.23	0/1474	0.55	0/2000
17	J	0.23	0/1347	0.44	0/1829
17	K	0.23	0/1465	0.53	0/1989
17	L	0.24	0/1356	0.53	0/1840
17	M	0.23	0/1458	0.50	0/1979
17	N	0.28	0/1356	0.58	1/1840 (0.1%)
17	O7	0.30	0/1458	0.63	0/1979
17	O8	0.28	0/862	0.59	0/1170
17	O9	0.29	0/862	0.61	1/1170 (0.1%)
17	P8	0.33	0/862	0.61	0/1170
17	P9	0.28	0/862	0.66	1/1170 (0.1%)
17	Z2	0.21	0/424	0.48	0/571
17	Z3	0.22	0/424	0.50	0/571
17	Z4	0.21	0/424	0.49	0/571
17	Z5	0.29	0/416	0.60	0/560
18	I1	0.42	1/826 (0.1%)	0.78	3/1123 (0.3%)
19	J1	0.26	0/958	0.69	1/1287 (0.1%)
19	J2	0.30	0/2055	0.64	1/2772 (0.0%)
19	J3	0.26	0/2055	0.60	0/2772
19	J4	0.37	0/2037	0.68	2/2748 (0.1%)
19	J5	0.28	0/1021	0.66	0/1382
20	K1	0.26	0/1038	0.58	1/1407 (0.1%)
20	K2	0.27	0/1038	0.46	0/1407
21	L1	0.33	1/1063 (0.1%)	0.75	3/1435 (0.2%)
22	M1	0.23	0/849	0.52	0/1148
22	M2	0.27	0/849	0.57	0/1148
22	M3	0.26	0/1316	0.60	0/1778
22	M4	0.30	0/849	0.60	0/1148
23	O	0.24	0/635	0.56	0/846
23	P	0.26	0/2911	0.46	1/3896 (0.0%)
23	Q	0.29	0/868	0.65	4/1161 (0.3%)
24	O1	0.19	0/1366	0.46	0/1862
24	O2	0.21	0/1379	0.46	0/1880
24	O3	0.19	0/1379	0.44	0/1880
24	O4	0.23	0/1379	0.51	0/1880
25	O5	0.21	0/4158	0.50	1/5631 (0.0%)
25	O6	0.22	0/393	0.58	0/531
25	T	0.20	0/2429	0.49	0/3285
25	U	0.28	0/4253	0.56	1/5764 (0.0%)
25	V	0.25	0/4417	0.54	3/5988 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
26	P1	0.23	0/658	0.50	0/892
26	P2	0.30	0/852	0.66	0/1155
27	P3	0.47	0/1145	0.80	2/1564 (0.1%)
27	P4	0.31	0/1319	0.62	0/1799
27	P5	0.38	0/1319	0.65	0/1799
27	P6	0.41	0/1310	0.68	2/1787 (0.1%)
27	P7	0.25	0/460	0.70	0/621
28	Q1	0.29	0/1696	0.67	2/2315 (0.1%)
28	Q2	0.34	0/1696	0.67	3/2315 (0.1%)
28	Q3	0.29	0/1696	0.60	2/2315 (0.1%)
28	Q4	0.29	0/1696	0.65	1/2315 (0.0%)
28	Q5	0.59	0/158	0.90	1/213 (0.5%)
29	R	0.21	0/1674	0.47	1/2232 (0.0%)
29	S	0.25	0/2770	0.53	1/3701 (0.0%)
30	U0	0.24	0/2934	0.41	0/3946
30	U1	0.21	0/3444	0.43	0/4637
30	U2	0.21	0/3444	0.47	4/4637 (0.1%)
30	U3	0.26	0/3444	0.43	1/4637 (0.0%)
30	U4	0.26	0/1691	0.46	1/2271 (0.0%)
30	U5	0.28	0/2646	0.53	2/3557 (0.1%)
30	U6	0.19	0/3407	0.43	0/4586
30	U7	0.28	1/3407 (0.0%)	0.48	2/4586 (0.0%)
30	U8	0.30	0/3407	0.55	0/4586
30	U9	0.28	0/1499	0.54	0/2018
30	V0	0.36	1/1713 (0.1%)	0.75	3/2307 (0.1%)
30	V1	0.19	0/3226	0.45	1/4339 (0.0%)
30	V2	0.21	0/3226	0.52	2/4339 (0.0%)
30	V3	0.32	0/3226	0.62	2/4339 (0.0%)
30	V4	0.34	0/2357	0.56	0/3165
30	V5	0.29	0/2437	0.58	3/3274 (0.1%)
30	V6	0.27	0/3018	0.52	2/4057 (0.0%)
30	V7	0.36	0/2772	0.63	2/3729 (0.1%)
30	V8	0.28	0/2507	0.60	0/3371
30	V9	0.35	0/804	0.78	0/1080
30	W0	0.35	0/2473	0.66	3/3317 (0.1%)
30	W2	0.31	0/2484	0.56	2/3338 (0.1%)
30	W4	0.16	0/2697	0.40	0/3621
30	W5	0.21	0/2697	0.46	0/3621
30	W6	0.17	0/2697	0.39	0/3621
30	W7	0.24	0/2697	0.51	0/3621
31	W	0.24	0/6283	0.51	1/8495 (0.0%)
31	X	0.26	1/6283 (0.0%)	0.49	0/8495
31	Y	0.22	0/6291	0.52	5/8506 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
31	Z	0.23	0/6283	0.48	0/8495
32	X0	0.20	0/206	0.56	0/278
32	X1	0.25	0/198	0.58	0/266
32	X2	0.21	0/198	0.59	0/266
32	X3	0.17	0/206	0.52	0/278
33	X4	0.26	1/2694 (0.0%)	0.58	1/3661 (0.0%)
33	X5	0.26	0/1072	0.54	0/1454
34	X6	0.38	0/2144	0.61	1/2899 (0.0%)
34	X7	0.30	0/2144	0.60	0/2899
34	X8	0.22	0/2144	0.53	0/2899
35	XA	0.23	0/1573	0.49	0/2122
35	XB	0.20	0/1573	0.46	0/2122
35	XC	0.16	0/1573	0.38	0/2122
35	XD	0.17	0/1573	0.44	0/2122
35	XE	0.20	0/1573	0.42	0/2122
35	XF	0.22	0/1573	0.48	0/2122
35	XG	0.24	0/1573	0.49	0/2122
35	XH	0.20	0/1573	0.49	0/2122
36	Y0	0.31	0/503	0.69	0/688
36	Y1	0.38	0/1890	0.84	6/2576 (0.2%)
36	Y2	0.25	0/1767	0.58	0/2408
36	Y3	0.25	0/503	0.63	0/688
36	Y4	0.29	0/1458	0.76	3/1984 (0.2%)
36	Y5	0.35	0/663	0.67	0/903
37	YA	0.22	0/1817	0.55	0/2455
37	YB	0.23	0/1817	0.50	1/2455 (0.0%)
37	YC	0.18	0/1817	0.39	0/2455
37	YD	0.20	0/1817	0.43	0/2455
37	YE	0.24	0/1817	0.51	0/2455
37	YF	0.19	0/1817	0.49	2/2455 (0.1%)
37	YG	0.21	0/1817	0.53	0/2455
37	YH	0.22	0/1817	0.56	2/2455 (0.1%)
38	Z1	0.27	0/288	0.73	0/387
39	a	0.32	0/2512	0.69	2/3331 (0.1%)
39	a6	0.20	0/575	0.56	1/767 (0.1%)
39	b	0.34	0/2105	0.71	4/2785 (0.1%)
39	c	0.27	0/3549	0.63	0/4707
39	d	0.29	0/1162	0.55	0/1538
40	a1	0.18	0/1313	0.47	0/1779
40	a2	0.29	0/1313	0.57	0/1779
40	a3	0.23	0/1313	0.53	0/1779
40	a4	0.29	0/1313	0.65	2/1779 (0.1%)
41	b1	0.38	0/1095	0.72	0/1465

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
41	b2	0.37	2/3141 (0.1%)	0.58	3/4226 (0.1%)
41	b3	0.21	0/3152	0.45	0/4240
41	b4	0.31	0/3152	0.55	1/4240 (0.0%)
41	b5	0.31	0/2749	0.62	3/3697 (0.1%)
42	e	0.17	0/4786	0.44	1/6472 (0.0%)
42	f	0.20	0/4786	0.49	4/6472 (0.1%)
42	g	0.22	0/4786	0.51	1/6472 (0.0%)
43	h	0.25	0/2057	0.52	1/2757 (0.0%)
43	i	0.28	0/2042	0.54	1/2737 (0.0%)
43	j	0.24	0/2036	0.53	1/2729 (0.0%)
43	k	0.29	1/2042 (0.0%)	0.57	1/2737 (0.0%)
44	h1	0.29	0/809	0.67	0/1091
44	h2	0.32	0/831	0.60	0/1119
44	h3	0.35	0/831	0.66	0/1119
44	h4	0.24	0/820	0.64	0/1105
45	i1	0.19	0/937	0.46	0/1281
45	l	0.24	0/937	0.48	0/1281
45	m	0.19	0/937	0.43	0/1281
45	n	0.22	0/937	0.53	0/1281
46	i2	0.18	0/1526	0.46	0/2039
46	i3	0.23	0/1526	0.52	0/2039
46	i4	0.21	0/1526	0.49	0/2039
47	o	0.32	0/1707	0.72	6/2264 (0.3%)
47	p	0.31	0/3334	0.67	5/4428 (0.1%)
48	q	0.22	0/614	0.54	0/827
48	r	0.33	0/640	0.69	1/862 (0.1%)
48	s	0.22	0/640	0.50	0/862
49	y	0.27	0/942	0.64	1/1279 (0.1%)
All	All	0.23	23/1674605 (0.0%)	0.49	425/2267788 (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
2	2	0	2
3	3	0	1
4	5	0	1
4	j1	0	1
8	AM	0	1
8	CM	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
8	EE	0	1
8	FA	0	1
8	IE	0	1
8	JE	0	1
8	JM	0	1
8	NG	0	1
8	VE	0	1
8	VM	0	1
8	WI	0	1
9	AJ	0	1
9	AL	0	1
9	BD	0	1
9	HN	0	1
9	IB	0	1
9	JF	0	1
9	LF	0	1
9	LH	0	1
9	NL	0	1
9	NN	0	1
9	OF	0	1
9	PF	0	1
11	B5	0	1
12	S0	0	1
12	S3	0	1
12	S5	0	1
12	S6	0	1
12	S9	0	1
14	D3	0	1
14	T2	0	1
17	O8	0	1
22	M1	0	1
24	O3	0	1
25	O5	0	1
28	Q1	0	1
28	Q2	0	1
28	Q3	0	1
28	Q4	0	1
28	Q5	0	1
30	U3	0	1
30	U8	0	1
31	Z	0	1
35	XF	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
36	Y5	0	1
40	a4	0	1
46	i3	0	1
All	All	0	52

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	LE	175	PRO	CG-CD	-8.11	1.23	1.50
18	I1	87	PRO	CG-CD	-7.92	1.23	1.50
30	V0	403	PRO	CG-CD	-7.00	1.26	1.50
9	IL	32	PRO	CG-CD	-6.84	1.27	1.50
41	b2	270	PRO	CA-C	-6.50	1.48	1.51
33	X4	237	ILE	CG1-CD1	-6.28	1.27	1.51
8	SI	268	PRO	CG-CD	-6.08	1.30	1.50
9	IP	171	PRO	CG-CD	-6.04	1.30	1.50
9	TD	80	PRO	CG-CD	-5.88	1.30	1.50
9	IF	324	LYS	CD-CE	-5.85	1.34	1.52
8	HG	164	LYS	CE-NZ	-5.83	1.31	1.49
41	b2	152	ARG	CB-CG	-5.68	1.35	1.52
9	OH	294	PHE	CD1-CE1	-5.63	1.21	1.38
43	k	129	ARG	CG-CD	-5.52	1.35	1.52
30	U7	473	ARG	C-O	-5.42	1.17	1.24
21	L1	133	MET	CG-SD	-5.38	1.67	1.80
9	HB	356	ILE	CG1-CD1	-5.38	1.30	1.51
9	HF	323	MET	CB-CG	-5.26	1.36	1.52
8	SC	268	PRO	CG-CD	-5.21	1.33	1.50
9	GD	360	GLY	N-CA	-5.19	1.38	1.45
14	T2	23	PRO	CG-CD	-5.12	1.33	1.50
8	IG	352	LYS	CD-CE	-5.02	1.37	1.52
31	X	379	LYS	C-N	5.00	1.39	1.33

All (425) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	V0	403	PRO	CA-N-CD	-13.52	93.07	112.00
28	Q1	158	ALA	O-C-N	-13.37	107.98	123.22
18	I1	87	PRO	CA-N-CD	-13.02	93.77	112.00
9	IP	171	PRO	CA-N-CD	-12.92	93.91	112.00
9	TD	80	PRO	CA-N-CD	-12.88	93.97	112.00
9	RL	87	PRO	CA-N-CD	-12.63	94.31	112.00
9	OJ	32	PRO	CA-N-CD	-12.52	94.47	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	SI	268	PRO	CA-N-CD	-12.44	94.59	112.00
9	JL	357	PRO	CA-N-CD	-12.27	94.82	112.00
14	T2	23	PRO	CA-N-CD	-12.22	94.89	112.00
9	IL	32	PRO	CA-N-CD	-12.10	95.06	112.00
9	IH	32	PRO	CA-N-CD	-12.07	95.10	112.00
9	JB	357	PRO	CA-N-CD	-11.92	95.32	112.00
8	BE	175	PRO	CA-N-CD	-11.76	95.53	112.00
9	QD	357	PRO	CA-N-CD	-11.27	96.22	112.00
31	Y	413	PRO	CA-N-CD	-10.97	96.64	112.00
8	UK	32	PRO	CA-N-CD	-10.49	97.31	112.00
36	Y1	34	PRO	CA-N-CD	-10.44	97.39	112.00
21	L1	144	PRO	CA-N-CD	-10.17	97.76	112.00
28	Q2	158	ALA	O-C-N	-10.11	111.85	123.27
41	b5	270	PRO	CA-N-CD	-10.07	97.90	112.00
8	BI	32	PRO	CA-N-CD	-9.96	98.06	112.00
36	Y4	89	ILE	CG1-CB-CG2	-9.82	81.25	110.70
11	R2	205	PRO	CA-N-CD	-9.75	98.35	112.00
8	IG	352	LYS	CD-CE-NZ	-9.70	80.88	111.90
30	V2	388	PRO	CA-N-CD	-9.65	98.49	112.00
47	o	159	MET	CA-CB-CG	9.62	133.34	114.10
18	I1	87	PRO	N-CD-CG	-9.53	88.90	103.20
36	Y1	139	PRO	CA-N-CD	-9.44	98.79	112.00
11	B5	109	PRO	CA-N-CD	-9.38	98.86	112.00
47	o	159	MET	CB-CG-SD	9.35	140.74	112.70
9	QJ	268	PRO	CA-N-CD	-9.34	98.92	112.00
48	r	148	PRO	CA-N-CD	-9.30	98.97	112.00
9	PD	321	MET	CG-SD-CE	9.25	121.25	100.90
9	PL	285	THR	CA-C-N	9.17	126.02	120.24
9	PL	285	THR	C-N-CA	9.17	126.02	120.24
8	LA	89	PRO	CA-N-CD	-9.17	99.17	112.00
8	LE	175	PRO	CA-N-CD	-9.13	99.22	112.00
11	B4	205	PRO	CA-N-CD	-9.05	99.33	112.00
30	V1	293	PRO	CA-N-CD	-9.03	99.35	112.00
30	V0	403	PRO	N-CD-CG	-8.95	89.77	103.20
13	K3	386	PRO	CA-N-CD	-8.88	99.56	112.00
8	UM	32	PRO	CA-N-CD	-8.85	99.61	112.00
9	IL	32	PRO	N-CD-CG	-8.75	90.08	103.20
28	Q2	14	PRO	CA-N-CD	-8.73	99.78	112.00
37	YB	106	PRO	CA-N-CD	-8.63	99.42	111.50
8	LE	175	PRO	N-CD-CG	-8.61	90.28	103.20
9	WL	164	MET	CG-SD-CE	-8.60	81.99	100.90
9	IP	217	LEU	CB-CG-CD1	-8.51	85.19	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	HF	323	MET	CG-SD-CE	-8.36	82.51	100.90
11	B5	404	PHE	CA-C-N	8.35	130.11	122.85
11	B5	404	PHE	C-N-CA	8.35	130.11	122.85
9	QF	357	PRO	CA-N-CD	-8.34	100.32	112.00
8	BK	32	PRO	CA-N-CD	-8.26	100.44	112.00
9	VN	299	MET	CB-CG-SD	-8.25	87.95	112.70
42	f	544	LEU	CB-CG-CD2	-8.24	85.97	110.70
9	NJ	358	PRO	CA-N-CD	-8.19	100.54	112.00
9	MB	305	PRO	CA-N-CD	-8.18	100.54	112.00
8	AE	370	LYS	CD-CE-NZ	-8.15	85.81	111.90
30	U2	134	MET	CB-CG-SD	-8.02	88.65	112.70
21	L1	147	PRO	CA-N-CD	-7.99	100.81	112.00
8	RO	274	PRO	CA-N-CD	-7.98	100.32	111.50
17	P9	188	PRO	CA-N-CD	-7.96	100.86	112.00
43	k	129	ARG	CG-CD-NE	-7.96	94.50	112.00
43	j	15	PRO	CA-N-CD	-7.85	101.01	112.00
9	HH	305	PRO	CA-N-CD	-7.82	101.06	112.00
30	U4	134	MET	CB-CG-SD	-7.79	89.32	112.70
17	O9	52	PRO	CA-N-CD	-7.78	101.10	112.00
9	KL	257	MET	CA-C-N	-7.75	114.73	123.25
9	KL	257	MET	C-N-CA	-7.75	114.73	123.25
9	KP	305	PRO	CA-N-CD	-7.63	101.32	112.00
8	RM	173	PRO	CA-N-CD	-7.59	101.38	112.00
8	SC	268	PRO	CA-N-CD	-7.58	101.39	112.00
9	GD	359	ARG	CA-C-N	-7.54	111.58	122.29
9	GD	359	ARG	C-N-CA	-7.54	111.58	122.29
8	BO	326	LYS	CA-CB-CG	-7.53	99.03	114.10
9	MJ	180	VAL	N-CA-C	-7.52	105.22	112.29
9	WF	321	MET	CG-SD-CE	-7.47	84.46	100.90
8	RI	173	PRO	CA-N-CD	-7.47	101.54	112.00
41	b2	152	ARG	CG-CD-NE	-7.47	95.57	112.00
41	b2	270	PRO	O-C-N	-7.42	117.90	121.31
30	U7	127	LYS	CD-CE-NZ	7.40	135.57	111.90
9	TD	80	PRO	N-CD-CG	-7.37	92.15	103.20
9	AN	323	MET	CG-SD-CE	-7.33	84.77	100.90
43	i	222	PRO	CA-N-CD	-7.31	101.76	112.00
21	L1	133	MET	CA-CB-CG	-7.30	99.50	114.10
9	JL	356	ILE	C-N-CD	-7.29	95.11	125.00
8	FG	280	LYS	CA-CB-CG	7.28	128.65	114.10
9	OP	253	LEU	CA-CB-CG	7.22	141.56	116.30
8	BE	326	LYS	CA-CB-CG	-7.20	99.71	114.10
36	Y4	89	ILE	CB-CG1-CD1	7.13	128.78	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	TL	233	MET	CB-CG-SD	-7.13	91.31	112.70
5	8	59	MET	CB-CG-SD	7.09	133.97	112.70
9	DL	323	MET	CB-CG-SD	-7.06	91.53	112.70
25	O5	283	ASN	N-CA-CB	-7.02	106.17	114.17
8	RE	302	MET	CB-CG-SD	7.00	133.70	112.70
5	8	59	MET	CA-CB-CG	6.95	128.00	114.10
9	DJ	357	PRO	CA-N-CD	-6.94	102.28	112.00
8	CM	182	VAL	N-CA-C	-6.93	105.77	112.29
37	YF	69	LEU	CB-CG-CD2	-6.92	89.93	110.70
30	U5	461	THR	OG1-CB-CG2	-6.84	95.62	109.30
9	NF	323	MET	CG-SD-CE	-6.80	85.93	100.90
8	TM	153	LEU	CA-CB-CG	6.78	140.02	116.30
9	ID	32	PRO	CA-N-CD	-6.77	102.52	112.00
9	RF	293	MET	CG-SD-CE	-6.75	86.06	100.90
9	TF	80	PRO	CA-N-CD	-6.74	102.56	112.00
30	U7	127	LYS	CG-CD-CE	-6.74	95.79	111.30
9	NL	359	ARG	CG-CD-NE	-6.73	97.19	112.00
9	TH	73	MET	CB-CG-SD	-6.70	92.60	112.70
9	OL	233	MET	CG-SD-CE	6.70	115.63	100.90
9	IB	330	MET	CA-CB-CG	6.67	127.45	114.10
8	II	357	TYR	CA-C-N	-6.59	113.77	122.74
8	II	357	TYR	C-N-CA	-6.59	113.77	122.74
9	OJ	32	PRO	N-CD-CG	-6.59	93.31	103.20
9	FJ	272	PRO	CA-N-CD	-6.58	102.78	112.00
9	JF	216	LYS	CA-CB-CG	6.58	127.26	114.10
9	UB	257	MET	CB-CG-SD	6.56	132.39	112.70
8	SI	203	MET	CA-CB-CG	-6.55	101.00	114.10
8	FI	326	LYS	CB-CG-CD	-6.55	96.24	111.30
9	KL	258	VAL	CB-CA-C	6.55	117.30	111.08
8	KM	317	MET	CB-CG-SD	6.53	132.29	112.70
30	U5	477	PRO	CA-N-CD	-6.51	102.88	112.00
30	W2	410	ASP	CA-C-N	6.49	124.33	120.24
30	W2	410	ASP	C-N-CA	6.49	124.33	120.24
8	LK	7	ILE	CG1-CB-CG2	-6.48	91.25	110.70
47	o	221	GLU	CA-CB-CG	6.48	127.06	114.10
9	PD	363	MET	CB-CG-SD	-6.45	93.34	112.70
36	Y4	89	ILE	CA-CB-CG1	6.44	121.34	110.40
8	LC	173	PRO	CA-N-CD	-6.43	103.00	112.00
36	Y1	240	ILE	CG1-CB-CG2	-6.43	91.41	110.70
42	f	544	LEU	CD1-CG-CD2	-6.43	96.65	110.80
9	BD	323	MET	CA-CB-CG	-6.42	101.27	114.10
11	R1	128	VAL	N-CA-C	-6.38	106.23	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	SC	268	PRO	N-CD-CG	-6.36	93.66	103.20
28	Q3	14	PRO	CA-N-CD	-6.33	103.13	112.00
9	FB	330	MET	CB-CG-SD	-6.32	93.73	112.70
39	b	341	MET	CA-CB-CG	6.30	126.70	114.10
9	WL	164	MET	CB-CG-SD	-6.29	93.82	112.70
29	S	259	VAL	N-CA-C	-6.28	107.75	113.71
14	T5	386	MET	CA-CB-CG	6.28	126.66	114.10
8	NM	52	PHE	CA-C-N	6.27	134.63	122.03
8	NM	52	PHE	C-N-CA	6.27	134.63	122.03
9	OH	299	MET	CB-CG-SD	-6.26	93.92	112.70
11	B3	128	VAL	N-CA-C	-6.26	106.34	111.91
8	JG	339	ARG	CA-CB-CG	6.25	126.60	114.10
9	PD	320	ARG	CA-C-N	-6.25	111.11	121.80
9	PD	320	ARG	C-N-CA	-6.25	111.11	121.80
9	LJ	87	PRO	CA-N-CD	-6.24	103.26	112.00
3	3	116	MET	CB-CG-SD	-6.20	94.09	112.70
9	LB	305	PRO	CA-N-CD	-6.20	103.32	112.00
13	K3	385	LYS	CA-CB-CG	6.20	126.50	114.10
31	Y	170	CYS	CA-C-N	6.17	129.25	120.49
31	Y	170	CYS	C-N-CA	6.17	129.25	120.49
9	CH	180	VAL	N-CA-C	-6.17	106.42	111.91
9	AJ	323	MET	CG-SD-CE	-6.15	87.37	100.90
28	Q1	191	PRO	CA-N-CD	-6.15	103.39	112.00
39	a	232	MET	CA-CB-CG	6.15	126.40	114.10
9	AN	58	LYS	CA-CB-CG	-6.14	101.81	114.10
19	J4	139	MET	CB-CG-SD	-6.14	94.29	112.70
8	RO	154	MET	CA-CB-CG	6.13	126.36	114.10
34	X6	70	PRO	CA-N-CD	-6.13	103.42	112.00
8	CM	326	LYS	CA-CB-CG	-6.10	101.91	114.10
8	VA	155	GLU	CA-CB-CG	6.09	126.29	114.10
8	VO	7	ILE	CG1-CB-CG2	-6.09	92.44	110.70
11	B4	326	ASN	CB-CA-C	-6.07	108.97	117.23
9	GN	406	MET	CB-CG-SD	6.05	130.86	112.70
8	JO	367	ASP	N-CA-C	-6.04	105.14	113.18
9	FB	415	MET	CG-SD-CE	-6.04	87.62	100.90
8	SI	268	PRO	N-CD-CG	-6.03	94.16	103.20
36	Y1	106	TYR	CB-CA-C	-6.02	99.85	111.78
42	g	173	MET	CB-CG-SD	6.02	130.77	112.70
8	IM	307	PRO	N-CD-CG	-6.02	94.17	103.20
14	D5	394	LYS	CB-CG-CD	-6.02	97.46	111.30
39	b	443	ARG	CB-CG-CD	6.02	125.14	111.30
14	T2	380	GLU	CA-CB-CG	-6.00	102.10	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	FB	280	GLN	CA-CB-CG	6.00	126.09	114.10
10	B	303	MET	CA-CB-CG	5.99	126.09	114.10
9	LF	305	PRO	CA-N-CD	-5.97	103.64	112.00
31	Y	711	PRO	CA-N-CD	-5.97	103.64	112.00
25	V	448	MET	CB-CG-SD	5.97	130.60	112.70
9	PJ	252	LYS	CB-CG-CD	5.96	125.01	111.30
30	W0	170	MET	CB-CG-SD	-5.94	94.87	112.70
8	RI	302	MET	CB-CG-SD	5.94	130.51	112.70
9	PD	321	MET	CB-CG-SD	-5.93	94.91	112.70
25	V	412	MET	CA-CB-CG	5.93	125.96	114.10
36	Y1	114	TYR	CA-CB-CG	-5.92	103.23	113.90
30	W0	310	MET	N-CA-C	-5.92	105.16	112.38
42	e	173	MET	CB-CG-SD	5.90	130.39	112.70
9	IP	171	PRO	N-CD-CG	-5.89	94.37	103.20
9	PF	86	ARG	CA-CB-CG	5.88	125.87	114.10
8	PG	212	ILE	CG1-CB-CG2	-5.87	93.09	110.70
23	Q	324	LEU	CB-CG-CD1	-5.86	93.11	110.70
8	PE	203	MET	CB-CG-SD	5.86	130.27	112.70
33	X4	313	VAL	CG1-CB-CG2	-5.85	97.94	110.80
9	OP	233	MET	CG-SD-CE	5.84	113.75	100.90
31	W	684	LYS	CA-CB-CG	5.82	125.74	114.10
9	JN	84	ILE	N-CA-C	-5.82	108.18	113.71
8	PC	221	ARG	CA-CB-CG	5.81	125.72	114.10
14	D1	394	LYS	CB-CG-CD	-5.81	97.94	111.30
14	T2	23	PRO	N-CD-CG	-5.81	94.49	103.20
9	FD	406	MET	CB-CG-SD	5.80	130.09	112.70
11	B5	126	ILE	N-CA-C	-5.79	107.11	112.43
30	V5	470	MET	CB-CG-SD	5.78	130.05	112.70
8	VK	101	ASN	N-CA-C	-5.78	104.15	110.91
9	JJ	45	GLU	N-CA-C	-5.78	108.04	114.62
8	FG	339	ARG	CA-CB-CG	5.77	125.64	114.10
9	KN	233	MET	CG-SD-CE	5.77	113.59	100.90
9	HH	323	MET	CG-SD-CE	-5.75	88.26	100.90
8	VM	156	ARG	CA-CB-CG	5.74	125.58	114.10
8	CC	326	LYS	CB-CG-CD	-5.73	98.12	111.30
9	CL	325	GLU	CA-CB-CG	5.73	125.55	114.10
9	KF	45	GLU	N-CA-C	-5.72	108.10	114.62
8	JE	338	LYS	CB-CG-CD	5.71	124.43	111.30
30	U2	123	ILE	CG1-CB-CG2	-5.71	93.58	110.70
43	h	185	MET	CB-CG-SD	-5.70	95.59	112.70
8	RI	301	GLN	CA-C-N	5.70	133.34	121.94
8	RI	301	GLN	C-N-CA	5.70	133.34	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	WE	377	MET	CB-CG-SD	5.69	129.78	112.70
8	SA	377	MET	CB-CG-SD	5.69	129.76	112.70
9	GH	323	MET	CG-SD-CE	-5.68	88.40	100.90
49	y	59	TYR	N-CA-C	5.67	118.29	110.35
47	p	467	LYS	CA-CB-CG	5.66	125.42	114.10
47	o	222	GLU	N-CA-CB	5.64	118.42	110.12
8	RK	274	PRO	CA-N-CD	-5.64	103.61	111.50
30	W0	311	ARG	N-CA-C	-5.64	102.30	111.04
9	NP	80	PRO	CA-N-CD	-5.63	104.11	112.00
14	D5	386	MET	CB-CG-SD	5.63	129.58	112.70
30	V2	229	MET	CA-CB-CG	5.61	125.32	114.10
9	ID	273	LEU	CD1-CG-CD2	-5.61	98.47	110.80
11	R4	411	PHE	CA-C-O	-5.61	115.02	121.47
30	U2	391	MET	CB-CG-SD	5.61	129.51	112.70
8	RG	413	MET	CB-CG-SD	-5.60	95.89	112.70
37	YH	129	VAL	CA-C-N	5.60	123.77	120.24
37	YH	129	VAL	C-N-CA	5.60	123.77	120.24
9	LB	324	LYS	CD-CE-NZ	-5.59	94.00	111.90
8	OG	7	ILE	CG1-CB-CG2	-5.58	93.97	110.70
11	R4	409	ASP	CB-CA-C	-5.57	104.11	111.74
9	PH	403	MET	CA-CB-CG	5.57	125.24	114.10
8	BK	284	GLU	CA-CB-CG	5.56	125.22	114.10
9	UN	285	THR	CA-C-N	5.56	123.74	120.24
9	UN	285	THR	C-N-CA	5.56	123.74	120.24
19	J4	139	MET	CA-CB-CG	-5.55	103.00	114.10
8	JI	48	SER	CB-CA-C	-5.55	110.19	116.63
9	DF	323	MET	CB-CG-SD	-5.55	96.05	112.70
8	VG	7	ILE	CG1-CB-CG2	-5.55	94.05	110.70
27	P6	111	PRO	CA-N-CD	-5.55	104.23	112.00
8	AA	36	MET	CB-CG-SD	5.54	129.31	112.70
17	H	249	LYS	CA-CB-CG	5.53	125.17	114.10
27	P6	154	PRO	N-CA-C	5.53	122.19	112.01
42	f	544	LEU	CB-CG-CD1	5.53	127.27	110.70
12	C5	426	GLU	CA-CB-CG	5.52	125.14	114.10
8	QM	326	LYS	CB-CG-CD	-5.52	98.60	111.30
9	WF	285	THR	CA-C-N	5.52	123.72	120.24
9	WF	285	THR	C-N-CA	5.52	123.72	120.24
41	b5	365	MET	CA-CB-CG	5.52	125.14	114.10
8	KA	215	ARG	CA-CB-CG	5.51	125.12	114.10
8	HK	256	GLN	CA-CB-CG	5.50	125.11	114.10
9	IH	32	PRO	N-CD-CG	-5.50	94.96	103.20
8	FK	302	MET	CA-CB-CG	5.49	125.08	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	NL	293	MET	CG-SD-CE	-5.49	88.83	100.90
14	D5	386	MET	CA-CB-CG	5.49	125.08	114.10
9	QN	355	ASP	CA-C-N	-5.48	118.87	122.60
9	QN	355	ASP	C-N-CA	-5.48	118.87	122.60
30	V6	134	MET	CB-CG-SD	-5.48	96.27	112.70
12	C5	425	TYR	CA-C-N	-5.47	111.89	122.06
12	C5	425	TYR	C-N-CA	-5.47	111.89	122.06
9	HN	252	LYS	CB-CG-CD	5.46	123.86	111.30
9	TH	267	MET	CB-CG-SD	5.46	129.07	112.70
9	IF	324	LYS	CA-CB-CG	-5.45	103.20	114.10
8	BE	326	LYS	CD-CE-NZ	-5.45	94.46	111.90
8	RK	377	MET	CB-CG-SD	-5.45	96.35	112.70
9	OL	323	MET	CB-CG-SD	5.45	129.04	112.70
5	8	134	PRO	CA-N-CD	-5.44	104.38	112.00
25	V	62	LEU	CB-CG-CD2	-5.44	94.37	110.70
9	TH	267	MET	CA-CB-CG	5.43	124.97	114.10
9	FD	164	MET	CB-CG-SD	-5.43	96.41	112.70
9	IJ	285	THR	CA-C-N	5.42	123.66	120.24
9	IJ	285	THR	C-N-CA	5.42	123.66	120.24
9	HF	323	MET	CA-CB-CG	-5.42	103.27	114.10
47	p	384	GLU	CA-CB-CG	5.41	124.92	114.10
9	FL	300	MET	CB-CG-SD	5.41	128.92	112.70
8	VI	203	MET	CB-CG-SD	5.40	128.91	112.70
19	J2	232	LEU	CA-CB-CG	5.39	135.18	116.30
28	Q3	158	ALA	O-C-N	-5.39	117.07	123.22
31	Y	460	ASP	N-CA-CB	-5.39	108.02	114.17
9	EH	415	MET	CB-CG-SD	5.39	128.87	112.70
12	S9	197	GLU	CA-CB-CG	5.39	124.88	114.10
9	GF	257	MET	CA-C-N	-5.38	117.33	123.25
9	GF	257	MET	C-N-CA	-5.38	117.33	123.25
8	MG	428	LEU	CB-CG-CD2	-5.38	94.56	110.70
9	JH	257	MET	CA-C-N	-5.37	117.34	123.25
9	JH	257	MET	C-N-CA	-5.37	117.34	123.25
39	b	461	LYS	CA-CB-CG	5.37	124.85	114.10
39	a	198	ILE	CA-CB-CG1	5.37	119.53	110.40
9	HH	323	MET	CA-CB-CG	-5.37	103.36	114.10
37	YF	165	MET	CA-CB-CG	5.37	124.83	114.10
12	C4	167	MET	CB-CG-SD	5.36	128.79	112.70
8	KA	339	ARG	CA-CB-CG	5.35	124.81	114.10
11	B2	180	MET	CG-SD-CE	-5.34	89.14	100.90
8	FO	302	MET	CA-CB-CG	5.34	124.79	114.10
8	IM	307	PRO	CA-CB-CG	-5.34	94.35	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	WC	326	LYS	CD-CE-NZ	-5.34	94.81	111.90
9	WN	406	MET	CA-CB-CG	5.33	124.77	114.10
39	a6	121	LYS	CA-CB-CG	5.33	124.77	114.10
28	Q2	116	MET	CG-SD-CE	-5.32	89.19	100.90
11	R4	411	PHE	CA-CB-CG	5.32	119.12	113.80
36	Y1	20	MET	CB-CG-SD	5.32	128.65	112.70
5	8	61	ASP	CB-CA-C	5.32	115.09	109.83
9	BJ	1	MET	CA-CB-CG	-5.31	103.48	114.10
18	I1	87	PRO	N-CA-CB	-5.31	98.73	103.35
8	HE	115	VAL	CA-C-N	5.31	129.63	121.19
8	HE	115	VAL	C-N-CA	5.31	129.63	121.19
6	N1	51	MET	N-CA-C	5.29	120.05	111.37
8	EI	181	VAL	N-CA-C	-5.29	107.67	112.96
28	Q4	62	VAL	CG1-CB-CG2	-5.29	99.16	110.80
27	P3	86	PHE	CA-C-N	5.29	134.70	121.80
27	P3	86	PHE	C-N-CA	5.29	134.70	121.80
5	8	61	ASP	N-CA-CB	-5.29	108.81	114.10
9	CF	45	GLU	N-CA-C	-5.28	108.60	114.62
8	KE	7	ILE	CG1-CB-CG2	-5.28	94.85	110.70
8	UA	153	LEU	CA-CB-CG	5.28	134.79	116.30
40	a4	101	GLN	CA-CB-CG	5.28	124.65	114.10
8	IM	219	ILE	CG1-CB-CG2	-5.27	94.89	110.70
8	TA	203	MET	CG-SD-CE	5.27	112.50	100.90
8	OK	32	PRO	N-CA-C	-5.27	106.21	113.53
14	D4	280	LYS	CB-CG-CD	5.27	123.41	111.30
25	U	414	MET	CG-SD-CE	-5.26	89.32	100.90
9	VD	1	MET	CB-CG-SD	-5.26	96.91	112.70
41	b2	152	ARG	CB-CG-CD	-5.26	99.20	111.30
9	RL	406	MET	CB-CG-SD	5.26	128.47	112.70
9	AN	285	THR	CA-C-N	5.25	123.55	120.24
9	AN	285	THR	C-N-CA	5.25	123.55	120.24
9	JP	99	ASN	CA-CB-CG	5.25	117.85	112.60
20	K1	25	LEU	CA-CB-CG	5.25	134.69	116.30
9	JB	357	PRO	N-CD-CG	-5.25	95.32	103.20
9	KN	285	THR	CA-C-N	5.25	123.55	120.24
9	KN	285	THR	C-N-CA	5.25	123.55	120.24
42	f	100	LYS	CA-CB-CG	5.24	124.57	114.10
9	AB	328	GLU	CA-CB-CG	5.23	124.57	114.10
47	p	257	GLU	CA-CB-CG	5.23	124.56	114.10
9	GN	1	MET	CA-CB-CG	5.23	124.56	114.10
30	V6	446	MET	CA-CB-CG	5.23	124.55	114.10
3	3	311	MET	CA-CB-CG	5.22	124.55	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	B	162	MET	CA-CB-CG	5.22	124.55	114.10
9	EN	323	MET	CG-SD-CE	-5.21	89.44	100.90
8	MK	339	ARG	CB-CG-CD	-5.20	99.35	111.30
8	RG	413	MET	CG-SD-CE	5.20	112.34	100.90
12	S5	114	ARG	CG-CD-NE	-5.20	100.57	112.00
9	SH	363	MET	CB-CG-SD	5.20	128.29	112.70
8	DG	203	MET	N-CA-CB	-5.18	102.00	109.83
14	T0	15	GLN	CA-CB-CG	5.18	124.46	114.10
47	p	379	MET	CA-CB-CG	5.18	124.46	114.10
9	IL	299	MET	CB-CG-SD	-5.17	97.18	112.70
9	VL	285	THR	CA-C-N	5.17	123.50	120.24
9	VL	285	THR	C-N-CA	5.17	123.50	120.24
47	p	402	LYS	CA-CB-CG	5.17	124.44	114.10
30	V7	366	GLN	CA-CB-CG	5.17	124.44	114.10
47	o	221	GLU	CA-C-N	-5.17	113.35	120.28
47	o	221	GLU	C-N-CA	-5.17	113.35	120.28
8	FA	280	LYS	CA-CB-CG	5.17	124.43	114.10
8	KG	338	LYS	CA-CB-CG	5.17	124.43	114.10
9	MJ	173	PRO	CA-N-CD	-5.17	104.77	112.00
8	EA	339	ARG	CA-CB-CG	5.15	124.39	114.10
23	P	187	GLN	CA-CB-CG	-5.14	103.81	114.10
1	0	38	HIS	CA-C-N	5.14	131.36	121.54
1	0	38	HIS	C-N-CA	5.14	131.36	121.54
9	LF	330	MET	CA-CB-CG	-5.14	103.82	114.10
8	GK	153	LEU	CA-CB-CG	5.13	134.27	116.30
11	R4	139	LYS	CA-CB-CG	5.12	124.35	114.10
30	V5	310	MET	CB-CG-SD	-5.12	97.33	112.70
19	J1	204	MET	CA-CB-CG	5.12	124.34	114.10
9	JN	45	GLU	N-CA-C	-5.12	108.78	114.62
9	NJ	273	LEU	CB-CG-CD2	-5.12	95.34	110.70
29	R	69	MET	CB-CG-SD	-5.12	97.35	112.70
28	Q5	56	ARG	CG-CD-NE	-5.12	100.75	112.00
41	b5	365	MET	N-CA-CB	5.12	118.21	110.28
8	CE	317	MET	CB-CG-SD	5.11	128.04	112.70
30	V5	379	GLU	N-CA-CB	5.11	117.72	110.16
12	S3	234	ARG	CA-C-N	-5.10	112.21	121.14
12	S3	234	ARG	C-N-CA	-5.10	112.21	121.14
30	V3	391	MET	CA-CB-CG	-5.10	103.90	114.10
8	DC	60	LYS	CA-CB-CG	-5.10	103.90	114.10
30	U2	270	LEU	CB-CG-CD2	-5.10	95.40	110.70
9	GB	122	LYS	CA-CB-CG	5.10	124.30	114.10
8	SC	203	MET	CG-SD-CE	5.10	112.12	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	DH	1	MET	CA-CB-CG	5.10	124.29	114.10
8	NK	167	LEU	CA-CB-CG	5.09	134.13	116.30
14	D5	406	GLU	CA-CB-CG	5.09	124.28	114.10
14	T2	22	LEU	CA-CB-CG	5.09	134.11	116.30
8	UK	153	LEU	CA-CB-CG	5.09	134.11	116.30
8	HI	22	GLU	CA-CB-CG	5.09	124.27	114.10
8	WC	326	LYS	CB-CG-CD	-5.09	99.60	111.30
8	VO	325	PRO	N-CA-C	-5.08	106.46	113.53
40	a4	31	SER	CB-CA-C	-5.08	109.18	115.89
30	V7	170	MET	CG-SD-CE	-5.08	89.72	100.90
9	VJ	164	MET	CB-CG-SD	5.08	127.93	112.70
9	KB	220	PRO	N-CD-CG	-5.07	95.59	103.20
9	IB	330	MET	CB-CG-SD	5.07	127.91	112.70
8	IK	307	PRO	N-CA-C	-5.07	106.48	113.53
3	3	367	ILE	CG1-CB-CG2	-5.07	95.50	110.70
8	PI	326	LYS	CB-CA-C	-5.06	103.16	110.96
8	IM	7	ILE	CG1-CB-CG2	-5.06	95.52	110.70
17	N	43	LEU	CA-CB-CG	5.06	134.01	116.30
30	V0	403	PRO	CA-CB-CG	-5.06	94.89	104.50
8	LC	96	LYS	CB-CG-CD	-5.06	99.67	111.30
39	b	450	LEU	CA-CB-CG	5.05	133.98	116.30
9	BD	320	ARG	CB-CG-CD	-5.05	99.69	111.30
9	TN	45	GLU	N-CA-C	-5.05	108.86	114.62
23	Q	319	GLU	CB-CG-CD	5.04	121.16	112.60
23	Q	359	SER	CA-C-N	-5.04	117.82	123.16
23	Q	359	SER	C-N-CA	-5.04	117.82	123.16
9	EB	257	MET	CB-CG-SD	5.03	127.80	112.70
9	GB	403	MET	CB-CG-SD	-5.03	97.60	112.70
14	T5	317	LYS	CB-CG-CD	5.03	122.87	111.30
9	AJ	323	MET	CA-CB-CG	-5.03	104.05	114.10
11	B1	403	LYS	CA-CB-CG	5.03	124.15	114.10
9	JF	276	ARG	CG-CD-NE	5.03	123.06	112.00
8	JK	254	GLU	CA-CB-CG	5.02	124.14	114.10
9	IP	84	ILE	N-CA-C	5.02	111.58	106.21
30	V3	192	LEU	CA-CB-CG	5.02	133.86	116.30
11	B0	29	GLU	CA-CB-CG	5.02	124.13	114.10
30	U3	310	MET	CB-CG-SD	5.01	127.74	112.70
9	JD	322	SER	CB-CA-C	5.01	118.08	109.51
9	RD	406	MET	CA-CB-CG	5.01	124.11	114.10
41	b4	436	LEU	CA-CB-CG	5.00	133.81	116.30

There are no chirality outliers.

All (52) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	2	277	ARG	Sidechain
2	2	503	ARG	Sidechain
3	3	339	GLN	Mainchain
4	5	62	ARG	Sidechain
9	AJ	262	ARG	Sidechain
9	AL	241	ARG	Sidechain
8	AM	221	ARG	Sidechain
11	B5	266	ARG	Sidechain
9	BD	320	ARG	Sidechain
8	CM	221	ARG	Sidechain
14	D3	230	ARG	Sidechain
8	EE	339	ARG	Sidechain
8	FA	123	ARG	Sidechain
9	HN	276	ARG	Sidechain
9	IB	306	ARG	Sidechain
8	IE	84	ARG	Sidechain
8	JE	221	ARG	Sidechain
9	JF	77	ARG	Sidechain
8	JM	221	ARG	Sidechain
9	LF	390	ARG	Sidechain
9	LH	276	ARG	Sidechain
22	M1	191	ARG	Sidechain
8	NG	221	ARG	Sidechain
9	NL	359	ARG	Sidechain
9	NN	282	ARG	Sidechain
24	O3	143	ARG	Sidechain
25	O5	502	ARG	Sidechain
17	O8	183	ARG	Sidechain
9	OF	306	ARG	Sidechain
9	PF	86	ARG	Sidechain
28	Q1	158	ALA	Mainchain
28	Q2	158	ALA	Mainchain
28	Q3	158	ALA	Mainchain
28	Q4	158	ALA	Mainchain
28	Q5	56	ARG	Sidechain
12	S0	485	ARG	Sidechain
12	S3	126	ARG	Sidechain
12	S5	289	ARG	Sidechain
12	S6	183	ARG	Sidechain
12	S9	439	ARG	Sidechain
14	T2	403	ARG	Sidechain
30	U3	73	ARG	Sidechain

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Mol	Chain	Res	Type	Group
30	U8	415	ARG	Sidechain
8	VE	2	ARG	Sidechain
8	VM	243	ARG	Sidechain
8	WI	221	ARG	Sidechain
35	XF	170	ARG	Sidechain
36	Y5	205	ARG	Sidechain
31	Z	280	ARG	Sidechain
40	a4	159	ARG	Sidechain
46	i3	1475	ARG	Sidechain
4	j1	63	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	670	0	664	37	0
1	7	1174	0	1127	52	0
2	1	3738	0	3656	105	0
2	2	2160	0	2156	101	0
3	3	4023	0	4087	150	0
3	4	1230	0	1250	36	0
4	5	2975	0	2950	82	0
4	6	2975	0	2950	86	0
4	j1	2975	0	2950	110	0
5	8	1470	0	1442	43	0
6	A	806	0	806	28	0
6	N1	806	0	806	37	0
7	A0	444	0	449	18	0
7	A1	2935	0	2976	62	0
7	A2	3288	0	3322	63	0
7	A3	3288	0	3322	59	0
7	A4	3274	0	3304	46	0
7	A5	1400	0	1386	39	0
8	AA	3424	0	3339	83	0
8	AC	3424	0	3339	85	0
8	AE	3431	0	3348	104	0
8	AG	3440	0	3354	91	0
8	AI	3431	0	3348	76	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	AK	3418	0	3334	97	0
8	AM	3431	0	3348	98	0
8	AO	3431	0	3348	108	0
8	BC	3374	0	3289	82	0
8	BE	3440	0	3354	106	0
8	BG	3396	0	3309	83	0
8	BI	3440	0	3354	81	0
8	BK	3390	0	3304	87	0
8	BM	3424	0	3339	96	0
8	BO	3396	0	3309	91	0
8	CC	3424	0	3339	100	0
8	CE	3424	0	3339	88	0
8	CG	3424	0	3339	87	0
8	CI	3424	0	3339	83	0
8	CK	3424	0	3339	76	0
8	CM	3431	0	3348	115	0
8	CO	3424	0	3339	89	0
8	CQ	3410	0	3330	92	0
8	DC	3382	0	3300	125	0
8	DE	3366	0	3285	72	0
8	DG	3366	0	3285	78	0
8	DI	3374	0	3296	81	0
8	DK	3373	0	3294	73	0
8	DM	3380	0	3294	77	0
8	DO	3372	0	3290	75	0
8	DQ	3360	0	3280	87	0
8	EA	3424	0	3339	83	0
8	EC	3418	0	3334	97	0
8	EE	3424	0	3339	81	0
8	EG	3424	0	3339	81	0
8	EI	3424	0	3339	86	0
8	EK	3424	0	3339	77	0
8	EM	3424	0	3339	95	0
8	EO	3410	0	3330	98	0
8	FA	3366	0	3285	120	0
8	FC	3366	0	3285	97	0
8	FE	3366	0	3285	97	0
8	FG	3351	0	3274	85	0
8	FI	3366	0	3285	105	0
8	FK	3373	0	3294	97	0
8	FM	3366	0	3285	94	0
8	FO	3355	0	3273	102	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	GA	3368	0	3284	99	0
8	GC	3373	0	3294	109	0
8	GE	3373	0	3294	118	0
8	GG	3431	0	3348	145	0
8	GI	3387	0	3303	106	0
8	GK	3387	0	3303	110	0
8	GM	3395	0	3307	134	0
8	GO	3395	0	3307	89	0
8	HA	3371	0	3295	98	0
8	HC	3389	0	3304	134	0
8	HE	3431	0	3348	107	0
8	HG	3431	0	3348	117	0
8	HI	3431	0	3348	91	0
8	HK	3366	0	3285	125	0
8	HM	3389	0	3304	122	0
8	HO	3381	0	3298	123	0
8	IA	3380	0	3294	126	0
8	IC	3431	0	3348	144	0
8	IE	3440	0	3354	142	0
8	IG	3387	0	3303	149	0
8	II	3399	0	3310	122	0
8	IK	3411	0	3327	158	0
8	IM	3391	0	3306	111	0
8	IO	3431	0	3348	147	0
8	JC	3388	0	3300	114	0
8	JE	3424	0	3339	146	0
8	JG	3360	0	3279	93	0
8	JI	3390	0	3304	131	0
8	JK	3381	0	3298	97	0
8	JM	3366	0	3285	98	0
8	JO	3379	0	3299	128	0
8	JQ	3403	0	3323	112	0
8	KA	3380	0	3294	98	0
8	KC	3389	0	3307	94	0
8	KE	3397	0	3311	113	0
8	KG	3380	0	3294	100	0
8	KI	3374	0	3289	103	0
8	KK	3372	0	3290	97	0
8	KM	3380	0	3294	118	0
8	KO	3389	0	3307	99	0
8	LA	3396	0	3309	102	0
8	LC	3374	0	3289	93	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	LE	3388	0	3305	84	0
8	LG	3440	0	3354	91	0
8	LI	3440	0	3354	75	0
8	LK	3440	0	3354	98	0
8	LM	3404	0	3313	97	0
8	LO	3366	0	3285	120	0
8	MA	3374	0	3289	73	0
8	MC	3374	0	3289	68	0
8	ME	3424	0	3339	76	0
8	MG	3380	0	3294	96	0
8	MI	3378	0	3292	79	0
8	MK	3390	0	3304	93	0
8	MM	3380	0	3294	98	0
8	MO	3352	0	3276	116	0
8	NA	3353	0	3271	97	0
8	NC	3352	0	3276	99	0
8	NE	3394	0	3307	108	0
8	NG	3382	0	3300	134	0
8	NI	3373	0	3294	104	0
8	NK	3373	0	3294	148	0
8	NM	3382	0	3300	170	0
8	NO	3382	0	3300	115	0
8	OA	3374	0	3289	95	0
8	OC	3366	0	3285	107	0
8	OE	3372	0	3290	96	0
8	OG	3366	0	3285	108	0
8	OI	3360	0	3280	100	0
8	OK	3374	0	3289	123	0
8	OM	3352	0	3276	109	0
8	OO	3330	0	3251	114	0
8	PC	3352	0	3276	103	0
8	PE	3330	0	3254	90	0
8	PG	3366	0	3285	94	0
8	PI	3366	0	3285	110	0
8	PK	3367	0	3282	109	0
8	PM	3380	0	3294	112	0
8	PO	3366	0	3285	100	0
8	QC	3352	0	3276	103	0
8	QE	3366	0	3285	104	0
8	QG	3352	0	3276	100	0
8	QI	3345	0	3269	119	0
8	QK	3345	0	3267	86	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	QM	3338	0	3260	117	0
8	QO	3345	0	3266	100	0
8	RC	3352	0	3276	89	0
8	RE	3353	0	3273	96	0
8	RG	3352	0	3276	105	0
8	RI	3360	0	3280	93	0
8	RK	3368	0	3283	101	0
8	RM	3361	0	3277	112	0
8	RO	3353	0	3273	101	0
8	SA	3359	0	3276	80	0
8	SC	3352	0	3276	105	0
8	SE	3352	0	3276	114	0
8	SG	3345	0	3267	103	0
8	SI	3360	0	3280	105	0
8	SK	3345	0	3267	98	0
8	SM	3333	0	3260	97	0
8	TA	3342	0	3259	92	0
8	TC	3337	0	3263	126	0
8	TE	3357	0	3274	95	0
8	TG	3341	0	3264	90	0
8	TI	3349	0	3268	100	0
8	TK	3352	0	3276	87	0
8	TM	3341	0	3264	104	0
8	UA	3327	0	3248	97	0
8	UC	3351	0	3272	99	0
8	UE	3351	0	3272	112	0
8	UG	3353	0	3271	70	0
8	UI	3352	0	3276	81	0
8	UK	3353	0	3271	91	0
8	UM	3359	0	3276	103	0
8	UO	3347	0	3269	99	0
8	VA	3345	0	3267	83	0
8	VC	3410	0	3330	81	0
8	VE	3358	0	3281	116	0
8	VG	3410	0	3330	121	0
8	VI	3360	0	3280	122	0
8	VK	3418	0	3334	105	0
8	VM	3359	0	3278	102	0
8	VO	3403	0	3321	93	0
8	WA	3403	0	3321	103	0
8	WC	3424	0	3339	93	0
8	WE	3382	0	3295	104	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	WG	3418	0	3334	92	0
8	WI	3424	0	3339	85	0
8	WK	3418	0	3334	97	0
8	WM	3374	0	3289	86	0
8	WO	3358	0	3281	91	0
9	AB	3391	0	3269	103	0
9	AD	3413	0	3284	109	0
9	AF	3373	0	3257	103	0
9	AH	3404	0	3276	76	0
9	AJ	3404	0	3278	91	0
9	AL	3404	0	3276	102	0
9	AN	3404	0	3278	111	0
9	AP	3391	0	3269	92	0
9	BB	3361	0	3245	92	0
9	BD	3373	0	3257	67	0
9	BF	3368	0	3251	93	0
9	BH	3373	0	3257	81	0
9	BJ	3382	0	3263	82	0
9	BL	3373	0	3257	90	0
9	BN	3373	0	3257	89	0
9	BP	3373	0	3257	90	0
9	CB	3356	0	3240	108	0
9	CD	3382	0	3263	101	0
9	CF	3382	0	3263	68	0
9	CH	3382	0	3263	67	0
9	CJ	3361	0	3245	58	0
9	CL	3368	0	3252	98	0
9	CN	3382	0	3263	104	0
9	CP	3373	0	3257	79	0
9	DB	3368	0	3252	96	0
9	DD	3368	0	3252	86	0
9	DF	3373	0	3257	73	0
9	DH	3373	0	3257	66	0
9	DJ	3373	0	3257	64	0
9	DL	3382	0	3263	83	0
9	DN	3361	0	3245	70	0
9	DP	3373	0	3257	73	0
9	EB	3361	0	3245	101	0
9	ED	3361	0	3245	87	0
9	EF	3361	0	3245	89	0
9	EH	3361	0	3245	85	0
9	EJ	3356	0	3240	84	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	EL	3361	0	3243	89	0
9	EN	3361	0	3245	99	0
9	FB	3373	0	3257	116	0
9	FD	3373	0	3257	81	0
9	FF	3373	0	3257	77	0
9	FH	3373	0	3257	94	0
9	FJ	3368	0	3252	100	0
9	FL	3368	0	3252	89	0
9	FN	3373	0	3257	121	0
9	GB	3356	0	3240	122	0
9	GD	3373	0	3257	115	0
9	GF	3373	0	3257	110	0
9	GH	3382	0	3263	99	0
9	GJ	3373	0	3257	94	0
9	GL	3382	0	3263	119	0
9	GN	3382	0	3263	101	0
9	HB	3373	0	3257	126	0
9	HD	3356	0	3240	142	0
9	HF	3373	0	3257	99	0
9	HH	3382	0	3263	106	0
9	HJ	3373	0	3257	127	0
9	HL	3382	0	3263	128	0
9	HN	3373	0	3256	111	0
9	HP	3356	0	3240	90	0
9	IB	3373	0	3257	144	0
9	ID	3373	0	3257	134	0
9	IF	3373	0	3257	123	0
9	IH	3382	0	3263	147	0
9	IJ	3368	0	3252	114	0
9	IL	3382	0	3262	134	0
9	IN	3382	0	3263	126	0
9	IP	3382	0	3263	140	0
9	JB	3356	0	3240	100	0
9	JD	3356	0	3240	144	0
9	JF	3356	0	3240	126	0
9	JH	3356	0	3240	121	0
9	JJ	3356	0	3240	117	0
9	JL	3356	0	3240	123	0
9	JN	3348	0	3236	113	0
9	JP	3356	0	3240	104	0
9	KB	3373	0	3257	93	0
9	KD	3382	0	3263	116	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	KF	3382	0	3263	82	0
9	KH	3382	0	3263	116	0
9	KJ	3373	0	3257	93	0
9	KL	3373	0	3257	107	0
9	KN	3373	0	3257	130	0
9	KP	3361	0	3245	115	0
9	LB	3433	0	3299	106	0
9	LD	3382	0	3263	95	0
9	LF	3451	0	3311	92	0
9	LH	3382	0	3263	81	0
9	LJ	3433	0	3299	92	0
9	LL	3361	0	3245	102	0
9	LN	3391	0	3269	99	0
9	LP	3368	0	3252	77	0
9	MB	3382	0	3263	77	0
9	MD	3382	0	3263	94	0
9	MF	3356	0	3240	74	0
9	MH	3382	0	3263	95	0
9	MJ	3373	0	3257	61	0
9	ML	3373	0	3257	104	0
9	MN	3382	0	3261	80	0
9	MP	3382	0	3263	101	0
9	NB	3361	0	3245	111	0
9	ND	3382	0	3263	101	0
9	NF	3361	0	3245	139	0
9	NH	3356	0	3240	116	0
9	NJ	3373	0	3257	154	0
9	NL	3361	0	3245	137	0
9	NN	3373	0	3257	130	0
9	NP	3356	0	3240	91	0
9	OB	3361	0	3245	138	0
9	OD	3361	0	3245	134	0
9	OF	3368	0	3252	128	0
9	OH	3361	0	3245	129	0
9	OJ	3368	0	3252	138	0
9	OL	3356	0	3240	140	0
9	ON	3356	0	3240	112	0
9	OP	3348	0	3236	114	0
9	PB	3361	0	3245	80	0
9	PD	3361	0	3245	127	0
9	PF	3361	0	3245	105	0
9	PH	3361	0	3245	94	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	PJ	3356	0	3240	109	0
9	PL	3361	0	3245	99	0
9	PN	3361	0	3245	93	0
9	PP	3356	0	3240	70	0
9	QB	3348	0	3236	112	0
9	QD	3356	0	3240	103	0
9	QF	3356	0	3240	103	0
9	QH	3356	0	3240	126	0
9	QJ	3356	0	3240	109	0
9	QL	3356	0	3240	94	0
9	QN	3356	0	3240	111	0
9	QP	3348	0	3236	95	0
9	RD	3361	0	3245	99	0
9	RF	3361	0	3245	91	0
9	RH	3361	0	3245	99	0
9	RJ	3361	0	3245	105	0
9	RL	3361	0	3243	91	0
9	RN	3356	0	3240	84	0
9	RP	3361	0	3245	64	0
9	SB	3348	0	3236	97	0
9	SD	3361	0	3245	103	0
9	SF	3348	0	3236	117	0
9	SH	3356	0	3240	113	0
9	SJ	3356	0	3240	109	0
9	SL	3348	0	3236	99	0
9	SN	3348	0	3236	97	0
9	TB	3348	0	3236	99	0
9	TD	3348	0	3236	92	0
9	TF	3348	0	3236	94	0
9	TH	3356	0	3240	105	0
9	TJ	3361	0	3245	110	0
9	TL	3356	0	3240	105	0
9	TN	3348	0	3236	95	0
9	UB	3348	0	3236	112	0
9	UD	3348	0	3236	95	0
9	UF	3348	0	3236	94	0
9	UH	3356	0	3240	98	0
9	UJ	3356	0	3240	97	0
9	UL	3348	0	3236	101	0
9	UN	3348	0	3236	97	0
9	VB	3348	0	3236	95	0
9	VD	3348	0	3236	85	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	VF	3348	0	3236	106	0
9	VH	3356	0	3240	130	0
9	VJ	3356	0	3240	105	0
9	VL	3361	0	3245	99	0
9	VN	3348	0	3236	108	0
9	WB	3356	0	3240	96	0
9	WD	3356	0	3240	86	0
9	WF	3373	0	3257	93	0
9	WH	3361	0	3245	90	0
9	WJ	3361	0	3245	84	0
9	WL	3356	0	3240	92	0
9	WN	3356	0	3240	92	0
9	WP	3356	0	3240	85	0
10	B	2769	0	2797	72	0
10	C	2408	0	2452	83	0
11	B0	334	0	319	22	0
11	B1	2984	0	2999	77	0
11	B2	3401	0	3418	79	0
11	B3	3401	0	3418	89	0
11	B4	3412	0	3431	84	0
11	B5	1675	0	1700	70	0
11	R0	1612	0	1644	61	0
11	R1	3412	0	3431	112	0
11	R2	3412	0	3431	83	0
11	R3	3412	0	3431	99	0
11	R4	3025	0	3041	133	0
11	R5	366	0	359	11	0
12	C0	1453	0	1391	38	0
12	C1	3354	0	3326	93	0
12	C2	3354	0	3326	58	0
12	C3	3332	0	3309	63	0
12	C4	2944	0	2939	70	0
12	C5	420	0	433	24	0
12	C6	354	0	339	15	0
12	S0	2675	0	2601	77	0
12	S1	3613	0	3573	94	0
12	S2	3613	0	3573	104	0
12	S3	3613	0	3573	117	0
12	S4	2459	0	2464	90	0
12	S5	2568	0	2499	70	0
12	S6	3453	0	3416	102	0
12	S7	3453	0	3416	92	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	S8	3435	0	3400	119	0
12	S9	2232	0	2247	111	0
13	D	622	0	603	10	0
13	K3	1460	0	1417	38	0
14	D0	889	0	824	28	0
14	D1	3370	0	3310	76	0
14	D2	3480	0	3416	81	0
14	D3	3480	0	3416	87	0
14	D4	3480	0	3416	84	0
14	D5	715	0	731	34	0
14	T0	957	0	898	51	0
14	T1	3594	0	3541	128	0
14	T2	3594	0	3541	118	0
14	T3	3606	0	3550	87	0
14	T4	3260	0	3205	104	0
14	T5	975	0	991	63	0
15	E	2372	0	2363	54	0
15	F	2363	0	2355	57	0
15	N2	2363	0	2355	59	0
16	G	724	0	695	28	0
17	H	1316	0	1274	39	0
17	I	1429	0	1382	47	0
17	J	1307	0	1261	25	0
17	K	1420	0	1369	29	0
17	L	1316	0	1274	43	0
17	M	1413	0	1362	38	0
17	N	1316	0	1274	38	0
17	O7	1413	0	1362	56	0
17	O8	837	0	822	42	0
17	O9	837	0	822	36	0
17	P8	837	0	822	32	0
17	P9	837	0	822	42	0
17	Z2	412	0	396	7	0
17	Z3	412	0	396	9	0
17	Z4	412	0	396	13	0
17	Z5	405	0	388	14	0
18	I1	796	0	744	37	0
19	J1	934	0	955	41	0
19	J2	2010	0	2037	72	0
19	J3	2010	0	2037	85	0
19	J4	1992	0	2023	110	0
19	J5	1001	0	1008	53	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
20	K1	1009	0	983	37	0
20	K2	1009	0	983	26	0
21	L1	1034	0	1013	40	0
22	M1	826	0	826	28	0
22	M2	826	0	826	20	0
22	M3	1280	0	1265	41	0
22	M4	826	0	826	33	0
23	O	627	0	622	21	0
23	P	2875	0	2819	77	0
23	Q	858	0	833	22	0
24	O1	1332	0	1310	22	0
24	O2	1344	0	1319	29	0
24	O3	1344	0	1319	19	0
24	O4	1344	0	1319	30	0
25	O5	4047	0	3978	99	0
25	O6	383	0	370	21	0
25	T	2365	0	2316	78	0
25	U	4138	0	4066	133	0
25	V	4299	0	4232	135	0
26	P1	637	0	620	20	0
26	P2	825	0	805	53	0
27	P3	1103	0	1068	89	0
27	P4	1272	0	1218	42	0
27	P5	1272	0	1218	50	0
27	P6	1263	0	1212	69	0
27	P7	447	0	424	18	0
28	Q1	1634	0	1575	55	0
28	Q2	1634	0	1575	63	0
28	Q3	1634	0	1575	45	0
28	Q4	1634	0	1575	57	0
28	Q5	152	0	145	15	0
29	R	1648	0	1612	40	0
29	S	2728	0	2675	61	0
30	U0	2897	0	2904	71	0
30	U1	3396	0	3406	97	0
30	U2	3396	0	3406	76	0
30	U3	3396	0	3406	76	0
30	U4	1664	0	1622	43	0
30	U5	2607	0	2570	72	0
30	U6	3360	0	3375	90	0
30	U7	3360	0	3375	109	0
30	U8	3360	0	3375	115	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
30	U9	1486	0	1552	50	0
30	V0	1695	0	1747	51	0
30	V1	3185	0	3186	101	0
30	V2	3185	0	3186	96	0
30	V3	3185	0	3186	105	0
30	V4	2325	0	2271	76	0
30	V5	2408	0	2410	66	0
30	V6	2980	0	2973	71	0
30	V7	2736	0	2753	118	0
30	V8	2477	0	2481	57	0
30	V9	800	0	847	28	0
30	W0	2447	0	2477	118	0
30	W2	2458	0	2495	71	0
30	W4	2662	0	2677	46	0
30	W5	2662	0	2677	57	0
30	W6	2662	0	2677	30	0
30	W7	2662	0	2677	64	0
31	W	6116	0	5999	162	0
31	X	6116	0	5999	119	0
31	Y	6124	0	6005	145	0
31	Z	6116	0	5999	132	0
32	X0	200	0	179	4	0
32	X1	192	0	169	3	0
32	X2	192	0	169	3	0
32	X3	200	0	179	7	0
33	X4	2619	0	2523	86	0
33	X5	1041	0	1024	47	0
34	X6	2097	0	2128	74	0
34	X7	2097	0	2129	61	0
34	X8	2097	0	2129	80	0
35	XA	1540	0	1570	37	0
35	XB	1540	0	1570	58	0
35	XC	1540	0	1570	47	0
35	XD	1540	0	1570	42	0
35	XE	1540	0	1570	40	0
35	XF	1540	0	1570	49	0
35	XG	1540	0	1570	45	0
35	XH	1540	0	1570	51	0
36	Y0	483	0	492	38	0
36	Y1	1828	0	1862	129	0
36	Y2	1711	0	1742	80	0
36	Y3	483	0	492	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
36	Y4	1412	0	1431	104	0
36	Y5	644	0	651	50	0
37	YA	1775	0	1793	43	0
37	YB	1775	0	1793	51	0
37	YC	1775	0	1793	33	0
37	YD	1775	0	1793	30	0
37	YE	1775	0	1793	34	0
37	YF	1775	0	1793	31	0
37	YG	1775	0	1793	40	0
37	YH	1775	0	1793	49	0
38	Z1	279	0	266	14	0
39	a	2499	0	2559	134	0
39	a6	572	0	613	22	0
39	b	2092	0	2130	94	0
39	c	3528	0	3595	144	0
39	d	1155	0	1184	48	0
40	a1	1277	0	1271	36	0
40	a2	1277	0	1271	49	0
40	a3	1277	0	1271	45	0
40	a4	1277	0	1271	55	0
41	b1	1081	0	1130	45	0
41	b2	3091	0	3189	94	0
41	b3	3102	0	3202	81	0
41	b4	3102	0	3202	117	0
41	b5	2705	0	2771	72	0
42	e	4689	0	4669	141	0
42	f	4689	0	4669	162	0
42	g	4689	0	4669	153	0
43	h	2014	0	2098	40	0
43	i	1999	0	2087	70	0
43	j	1993	0	2082	54	0
43	k	1999	0	2087	83	0
44	h1	787	0	790	37	0
44	h2	809	0	816	34	0
44	h3	809	0	816	43	0
44	h4	798	0	803	36	0
45	i1	909	0	908	32	0
45	l	909	0	908	31	0
45	m	909	0	908	30	0
45	n	909	0	908	33	0
46	i2	1500	0	1519	51	0
46	i3	1500	0	1519	54	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	i4	1500	0	1519	48	0
47	o	1688	0	1717	59	0
47	p	3300	0	3358	106	0
48	q	599	0	579	20	0
48	r	625	0	610	23	0
48	s	625	0	610	28	0
49	y	911	0	857	45	0
50	AA	32	0	12	0	0
50	AC	32	0	12	1	0
50	AE	32	0	12	1	0
50	AG	32	0	12	0	0
50	AI	32	0	12	0	0
50	AK	32	0	12	0	0
50	AM	32	0	12	0	0
50	AO	32	0	12	0	0
50	BC	32	0	12	1	0
50	BE	32	0	12	0	0
50	BG	32	0	12	0	0
50	BI	32	0	12	0	0
50	BK	32	0	12	0	0
50	BM	32	0	12	0	0
50	BO	32	0	12	0	0
50	CC	32	0	12	0	0
50	CE	32	0	12	0	0
50	CG	32	0	12	1	0
50	CI	32	0	12	3	0
50	CK	32	0	12	2	0
50	CM	32	0	12	1	0
50	CO	32	0	12	1	0
50	CQ	32	0	12	0	0
50	DC	32	0	12	0	0
50	DE	32	0	12	1	0
50	DG	32	0	12	0	0
50	DI	32	0	12	0	0
50	DK	32	0	12	2	0
50	DM	32	0	12	1	0
50	DO	32	0	12	1	0
50	DQ	32	0	12	2	0
50	EA	32	0	12	1	0
50	EC	32	0	12	0	0
50	EE	32	0	12	1	0
50	EG	32	0	12	1	0

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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
50	JO	32	0	12	2	0
50	JQ	32	0	12	1	0
50	KA	32	0	12	1	0
50	KC	32	0	12	4	0
50	KE	32	0	12	0	0
50	KG	32	0	12	3	0
50	KI	32	0	12	0	0
50	KK	32	0	12	1	0
50	KM	32	0	12	1	0
50	KO	32	0	12	0	0
50	LA	32	0	12	0	0
50	LC	32	0	12	0	0
50	LE	32	0	12	1	0
50	LG	32	0	12	0	0
50	LI	32	0	12	2	0
50	LK	32	0	12	1	0
50	LM	32	0	12	1	0
50	LO	32	0	12	1	0
50	MA	32	0	12	0	0
50	MC	32	0	12	1	0
50	ME	32	0	12	0	0
50	MG	32	0	12	0	0
50	MI	32	0	12	1	0
50	MK	32	0	12	1	0
50	MM	32	0	12	1	0
50	MO	32	0	12	1	0
50	NA	32	0	12	0	0
50	NC	32	0	12	1	0
50	NE	32	0	12	2	0
50	NG	32	0	12	1	0
50	NI	32	0	12	1	0
50	NK	32	0	12	0	0
50	NM	32	0	12	3	0
50	NO	32	0	12	1	0
50	OA	32	0	12	0	0
50	OC	32	0	12	1	0
50	OE	32	0	12	0	0
50	OG	32	0	12	0	0
50	OI	32	0	12	1	0
50	OK	32	0	12	0	0
50	OM	32	0	12	1	0
50	OO	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
50	PC	32	0	12	0	0
50	PE	32	0	12	0	0
50	PG	32	0	12	3	0
50	PI	32	0	12	1	0
50	PK	32	0	12	0	0
50	PM	32	0	12	0	0
50	PO	32	0	12	0	0
50	QC	32	0	12	2	0
50	QE	32	0	12	1	0
50	QG	32	0	12	2	0
50	QI	32	0	12	3	0
50	QK	32	0	12	2	0
50	QM	32	0	12	2	0
50	QO	32	0	12	6	0
50	RC	32	0	12	0	0
50	RE	32	0	12	2	0
50	RG	32	0	12	1	0
50	RI	32	0	12	3	0
50	RK	32	0	12	2	0
50	RM	32	0	12	0	0
50	RO	32	0	12	0	0
50	SA	32	0	12	0	0
50	SC	32	0	12	0	0
50	SE	32	0	12	2	0
50	SG	32	0	12	1	0
50	SI	32	0	12	0	0
50	SK	32	0	12	1	0
50	SM	32	0	12	2	0
50	TA	32	0	12	0	0
50	TC	32	0	12	2	0
50	TE	32	0	12	1	0
50	TG	32	0	12	1	0
50	TI	32	0	12	1	0
50	TK	32	0	12	2	0
50	TM	32	0	12	1	0
50	UA	32	0	12	0	0
50	UC	32	0	12	2	0
50	UE	32	0	12	1	0
50	UG	32	0	12	1	0
50	UI	32	0	12	0	0
50	UK	32	0	12	2	0
50	UM	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
50	UO	32	0	12	1	0
50	VA	32	0	12	0	0
50	VC	32	0	12	0	0
50	VE	32	0	12	0	0
50	VG	32	0	12	1	0
50	VI	32	0	12	0	0
50	VK	32	0	12	1	0
50	VM	32	0	12	0	0
50	VO	32	0	12	1	0
50	WA	32	0	12	1	0
50	WC	32	0	12	1	0
50	WE	32	0	12	0	0
50	WG	32	0	12	1	0
50	WI	32	0	12	2	0
50	WK	32	0	12	0	0
50	WM	32	0	12	1	0
50	WO	32	0	12	2	0
51	AA	1	0	0	0	0
51	AC	1	0	0	0	0
51	AE	1	0	0	0	0
51	AG	1	0	0	0	0
51	AI	1	0	0	0	0
51	AK	1	0	0	0	0
51	AM	1	0	0	0	0
51	AO	1	0	0	0	0
51	BC	1	0	0	0	0
51	BE	1	0	0	0	0
51	BG	1	0	0	0	0
51	BI	1	0	0	0	0
51	BK	1	0	0	0	0
51	BM	1	0	0	0	0
51	BO	1	0	0	0	0
51	CC	1	0	0	0	0
51	CE	1	0	0	0	0
51	CG	1	0	0	0	0
51	CI	1	0	0	0	0
51	CK	1	0	0	0	0
51	CM	1	0	0	0	0
51	CO	1	0	0	0	0
51	CQ	1	0	0	0	0
51	DC	1	0	0	0	0
51	DE	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
51	DG	1	0	0	0	0
51	DI	1	0	0	0	0
51	DK	1	0	0	0	0
51	DM	1	0	0	0	0
51	DO	1	0	0	0	0
51	DQ	1	0	0	0	0
51	EA	1	0	0	0	0
51	EC	1	0	0	0	0
51	EE	1	0	0	0	0
51	EG	1	0	0	0	0
51	EI	1	0	0	0	0
51	EK	1	0	0	0	0
51	EM	1	0	0	0	0
51	EO	1	0	0	0	0
51	FA	1	0	0	0	0
51	FC	1	0	0	0	0
51	FE	1	0	0	0	0
51	FG	1	0	0	0	0
51	FI	1	0	0	0	0
51	FK	1	0	0	0	0
51	FM	1	0	0	0	0
51	FO	1	0	0	0	0
51	GA	1	0	0	0	0
51	GC	1	0	0	0	0
51	GE	1	0	0	0	0
51	GG	1	0	0	0	0
51	GI	1	0	0	0	0
51	GK	1	0	0	0	0
51	GM	1	0	0	0	0
51	GO	1	0	0	0	0
51	HA	1	0	0	0	0
51	HC	1	0	0	0	0
51	HE	1	0	0	0	0
51	HG	1	0	0	0	0
51	HI	1	0	0	0	0
51	HK	1	0	0	0	0
51	HM	1	0	0	0	0
51	HO	1	0	0	0	0
51	IA	1	0	0	0	0
51	IC	1	0	0	0	0
51	IE	1	0	0	0	0
51	IG	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
51	II	1	0	0	0	0
51	IK	1	0	0	0	0
51	IM	1	0	0	0	0
51	IO	1	0	0	0	0
51	JC	1	0	0	0	0
51	JE	1	0	0	0	0
51	JG	1	0	0	0	0
51	JI	1	0	0	0	0
51	JK	1	0	0	0	0
51	JM	1	0	0	0	0
51	JO	1	0	0	0	0
51	JQ	1	0	0	0	0
51	KA	1	0	0	0	0
51	KC	1	0	0	0	0
51	KE	1	0	0	0	0
51	KG	1	0	0	0	0
51	KI	1	0	0	0	0
51	KK	1	0	0	0	0
51	KM	1	0	0	0	0
51	KO	1	0	0	0	0
51	LA	1	0	0	0	0
51	LC	1	0	0	0	0
51	LE	1	0	0	0	0
51	LG	1	0	0	0	0
51	LI	1	0	0	0	0
51	LK	1	0	0	0	0
51	LM	1	0	0	0	0
51	LO	1	0	0	0	0
51	MA	1	0	0	0	0
51	MC	1	0	0	0	0
51	ME	1	0	0	0	0
51	MG	1	0	0	0	0
51	MI	1	0	0	0	0
51	MK	1	0	0	0	0
51	MM	1	0	0	0	0
51	MO	1	0	0	0	0
51	NA	1	0	0	0	0
51	NC	1	0	0	0	0
51	NE	1	0	0	0	0
51	NG	1	0	0	0	0
51	NI	1	0	0	0	0
51	NK	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
51	NM	1	0	0	0	0
51	NO	1	0	0	0	0
51	OA	1	0	0	0	0
51	OC	1	0	0	0	0
51	OE	1	0	0	0	0
51	OG	1	0	0	0	0
51	OI	1	0	0	0	0
51	OK	1	0	0	0	0
51	OM	1	0	0	0	0
51	OO	1	0	0	0	0
51	PC	1	0	0	0	0
51	PE	1	0	0	0	0
51	PG	1	0	0	0	0
51	PI	1	0	0	0	0
51	PK	1	0	0	0	0
51	PM	1	0	0	0	0
51	PO	1	0	0	0	0
51	QC	1	0	0	0	0
51	QE	1	0	0	0	0
51	QG	1	0	0	0	0
51	QI	1	0	0	0	0
51	QK	1	0	0	0	0
51	QM	1	0	0	0	0
51	QO	1	0	0	0	0
51	RC	1	0	0	0	0
51	RE	1	0	0	0	0
51	RG	1	0	0	0	0
51	RI	1	0	0	0	0
51	RK	1	0	0	0	0
51	RM	1	0	0	0	0
51	RO	1	0	0	0	0
51	SA	1	0	0	0	0
51	SC	1	0	0	0	0
51	SE	1	0	0	0	0
51	SG	1	0	0	0	0
51	SI	1	0	0	0	0
51	SK	1	0	0	0	0
51	SM	1	0	0	0	0
51	TA	1	0	0	0	0
51	TC	1	0	0	0	0
51	TE	1	0	0	0	0
51	TG	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
51	TI	1	0	0	0	0
51	TK	1	0	0	0	0
51	TM	1	0	0	0	0
51	UA	1	0	0	0	0
51	UC	1	0	0	0	0
51	UE	1	0	0	0	0
51	UG	1	0	0	0	0
51	UI	1	0	0	0	0
51	UK	1	0	0	0	0
51	UM	1	0	0	0	0
51	UO	1	0	0	0	0
51	VA	1	0	0	0	0
51	VC	1	0	0	0	0
51	VE	1	0	0	0	0
51	VG	1	0	0	0	0
51	VI	1	0	0	0	0
51	VK	1	0	0	0	0
51	VM	1	0	0	0	0
51	VO	1	0	0	0	0
51	WA	1	0	0	0	0
51	WC	1	0	0	0	0
51	WE	1	0	0	0	0
51	WG	1	0	0	0	0
51	WI	1	0	0	0	0
51	WK	1	0	0	0	0
51	WM	1	0	0	0	0
51	WO	1	0	0	0	0
52	AB	28	0	12	0	0
52	AD	28	0	12	0	0
52	AF	28	0	12	0	0
52	AH	28	0	12	1	0
52	AJ	28	0	12	0	0
52	AL	28	0	12	1	0
52	AN	28	0	12	1	0
52	AP	28	0	12	0	0
52	BB	28	0	12	0	0
52	BD	28	0	12	1	0
52	BF	28	0	12	2	0
52	BH	28	0	12	0	0
52	BJ	28	0	12	1	0
52	BL	28	0	12	0	0
52	BN	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	BP	28	0	12	0	0
52	CB	28	0	12	0	0
52	CD	28	0	12	0	0
52	CF	28	0	12	1	0
52	CH	28	0	12	3	0
52	CJ	28	0	12	0	0
52	CL	28	0	12	1	0
52	CN	28	0	12	0	0
52	CP	28	0	12	0	0
52	DB	28	0	12	0	0
52	DD	28	0	12	0	0
52	DF	28	0	12	0	0
52	DH	28	0	12	0	0
52	DJ	28	0	12	0	0
52	DL	28	0	12	2	0
52	DN	28	0	12	0	0
52	DP	28	0	12	0	0
52	EB	28	0	12	1	0
52	ED	28	0	12	1	0
52	EF	28	0	12	0	0
52	EH	28	0	12	0	0
52	EJ	28	0	12	1	0
52	EL	28	0	12	1	0
52	EN	28	0	12	0	0
52	FB	28	0	12	1	0
52	FD	28	0	12	1	0
52	FF	28	0	12	0	0
52	FH	28	0	12	0	0
52	FJ	28	0	12	6	0
52	FL	28	0	12	1	0
52	FN	28	0	12	2	0
52	GB	28	0	12	1	0
52	GD	28	0	12	2	0
52	GF	28	0	12	0	0
52	GH	28	0	12	0	0
52	GJ	28	0	12	1	0
52	GL	28	0	12	0	0
52	GN	28	0	12	0	0
52	HB	28	0	12	1	0
52	HD	28	0	12	1	0
52	HF	28	0	12	1	0
52	HH	28	0	12	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	HJ	28	0	12	0	0
52	HL	28	0	12	1	0
52	HN	28	0	12	1	0
52	HP	28	0	12	1	0
52	IB	28	0	12	0	0
52	ID	28	0	12	1	0
52	IF	28	0	12	1	0
52	IH	28	0	12	0	0
52	IJ	28	0	12	2	0
52	IL	28	0	12	3	0
52	IN	28	0	12	3	0
52	IP	28	0	12	2	0
52	JB	28	0	12	0	0
52	JD	28	0	12	1	0
52	JF	28	0	12	0	0
52	JH	28	0	12	1	0
52	JJ	28	0	12	2	0
52	JL	28	0	12	1	0
52	JN	28	0	12	1	0
52	JP	28	0	12	0	0
52	KB	28	0	12	2	0
52	KD	28	0	12	0	0
52	KF	28	0	12	1	0
52	KH	28	0	12	2	0
52	KJ	28	0	12	1	0
52	KL	28	0	12	1	0
52	KN	28	0	12	0	0
52	KP	28	0	12	1	0
52	LB	28	0	12	0	0
52	LD	28	0	12	0	0
52	LF	28	0	12	1	0
52	LH	28	0	12	1	0
52	LJ	28	0	12	0	0
52	LL	28	0	12	0	0
52	LN	28	0	12	0	0
52	LP	28	0	12	0	0
52	MB	28	0	12	0	0
52	MD	28	0	12	0	0
52	MF	28	0	12	0	0
52	MH	28	0	12	0	0
52	MJ	28	0	12	0	0
52	ML	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	MN	28	0	12	0	0
52	MP	28	0	12	0	0
52	NB	28	0	12	0	0
52	ND	28	0	12	0	0
52	NF	28	0	12	2	0
52	NH	28	0	12	3	0
52	NJ	28	0	12	1	0
52	NL	28	0	12	0	0
52	NN	28	0	12	1	0
52	NP	28	0	12	0	0
52	OB	28	0	12	4	0
52	OD	28	0	12	0	0
52	OF	28	0	12	1	0
52	OH	28	0	12	2	0
52	OJ	28	0	12	0	0
52	OL	28	0	12	0	0
52	ON	28	0	12	2	0
52	OP	28	0	12	0	0
52	PB	28	0	12	1	0
52	PD	28	0	12	1	0
52	PF	28	0	12	1	0
52	PH	28	0	12	0	0
52	PJ	28	0	12	1	0
52	PL	28	0	12	1	0
52	PN	28	0	12	2	0
52	PP	28	0	12	1	0
52	QB	28	0	12	0	0
52	QD	28	0	12	1	0
52	QF	28	0	12	0	0
52	QH	28	0	12	2	0
52	QJ	28	0	12	0	0
52	QL	28	0	12	1	0
52	QN	28	0	12	0	0
52	QP	28	0	12	1	0
52	RD	28	0	12	1	0
52	RF	28	0	12	0	0
52	RH	28	0	12	2	0
52	RJ	28	0	12	1	0
52	RL	28	0	12	1	0
52	RN	28	0	12	1	0
52	RP	28	0	12	0	0
52	SB	28	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	SD	28	0	12	0	0
52	SF	28	0	12	2	0
52	SH	28	0	12	1	0
52	SJ	28	0	12	1	0
52	SL	28	0	12	1	0
52	SN	28	0	12	0	0
52	TB	28	0	12	0	0
52	TD	28	0	12	0	0
52	TF	28	0	12	0	0
52	TH	28	0	12	0	0
52	TJ	28	0	12	0	0
52	TL	28	0	12	0	0
52	TN	28	0	12	1	0
52	UB	28	0	12	2	0
52	UD	28	0	12	0	0
52	UF	28	0	12	0	0
52	UH	28	0	12	1	0
52	UJ	28	0	12	0	0
52	UL	28	0	12	1	0
52	UN	28	0	12	0	0
52	VB	28	0	12	3	0
52	VD	28	0	12	1	0
52	VF	28	0	12	0	0
52	VH	28	0	12	0	0
52	VJ	28	0	12	0	0
52	VL	28	0	12	0	0
52	VN	28	0	12	2	0
52	WB	28	0	12	0	0
52	WD	28	0	12	1	0
52	WF	28	0	12	0	0
52	WH	28	0	12	0	0
52	WJ	28	0	12	1	0
52	WL	28	0	12	0	0
52	WN	28	0	12	0	0
52	WP	28	0	12	0	0
All	All	1650085	0	1606959	42893	0

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

All (42893) 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)
8:UE:282:TYR:HB2	39:c:373:ARG:NH2	1.45	1.26
8:NM:54:SER:HB2	8:NM:64:ARG:CZ	1.68	1.21
9:JH:402:GLY:C	9:JH:403:MET:SD	2.36	1.08
39:c:373:ARG:O	39:c:376:GLN:HG2	1.54	1.06
8:NM:53:PHE:HB3	8:NM:61:HIS:HB2	1.10	1.05
10:C:482:ARG:O	10:C:486:GLN:HB3	1.55	1.05
8:NM:53:PHE:HB3	8:NM:61:HIS:CB	1.85	1.04
30:W0:159:GLU:HG2	30:W0:304:ILE:HG12	1.39	1.03
19:J4:236:TRP:HB3	9:LN:432:GLU:HB2	1.41	1.03
9:WL:156:ARG:HD3	9:WL:164:MET:HE1	1.40	1.02
34:X6:81:VAL:HB	34:X6:85:LYS:HE3	1.41	1.01
7:A5:198:ILE:HD11	11:R4:413:ARG:CZ	1.89	1.01
8:NM:53:PHE:CG	8:NM:61:HIS:HD2	1.78	1.01
8:AE:234:ILE:HD11	8:AE:302:MET:HE1	1.45	0.99
39:c:373:ARG:HG3	39:c:376:GLN:NE2	1.78	0.99
9:DN:219:THR:HG23	25:O5:281:ARG:HH21	1.28	0.98
9:QD:319:GLY:HA2	9:QD:357:PRO:HD3	1.44	0.98
8:IE:88:HIS:HB3	8:IE:91:GLN:HG3	1.42	0.98
9:OP:164:MET:HE1	9:OP:196:THR:HA	1.45	0.97
27:P7:26:LYS:HE3	27:P7:27:PRO:HD2	1.46	0.97
39:c:373:ARG:HG3	39:c:376:GLN:HE22	1.29	0.97
8:LG:46:ASP:H	25:V:45:MET:HE2	1.27	0.97
8:NI:191:THR:HG21	8:NI:425:LEU:HD21	1.45	0.97
8:QG:286:LEU:HD11	8:QG:291:ILE:HG23	1.43	0.96
8:NM:53:PHE:CB	8:NM:61:HIS:HB2	1.95	0.96
8:OG:7:ILE:HD11	8:OG:122:ILE:HD11	1.46	0.96
39:c:365:LYS:O	39:c:369:ILE:HG13	1.66	0.96
8:IA:163:LYS:HE3	34:X8:128:ASP:HB3	1.45	0.96
30:V7:266:ASN:HA	30:V7:269:ASN:HB2	1.46	0.96
43:h:180:LEU:O	43:h:184:ALA:HB2	1.65	0.96
9:NP:143:THR:HG23	9:NP:147:MET:HE1	1.48	0.95
9:JJ:50:TYR:HE2	9:JJ:241:ARG:HD3	1.32	0.95
8:JK:2:ARG:HD3	8:JK:242:LEU:HG	1.45	0.95
9:LJ:253:LEU:O	9:LJ:257:MET:HB2	1.67	0.95
9:KP:44:LEU:HD12	9:KP:47:ILE:HG13	1.49	0.95
9:JF:267:MET:HE3	9:JF:299:MET:HG2	1.46	0.94
9:QF:267:MET:HE1	9:QF:301:ALA:H	1.30	0.94
39:c:373:ARG:O	39:c:376:GLN:CG	2.14	0.94
9:AD:336:LYS:NZ	37:YB:31:MET:SD	2.40	0.94
8:GK:1:MET:HE3	8:GK:50:ASN:HB3	1.49	0.94
10:B:185:ALA:O	10:B:188:TYR:HB2	1.67	0.94
9:PN:324:LYS:H	8:PO:221:ARG:HH22	1.16	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JD:324:LYS:H	8:JE:221:ARG:HH22	1.13	0.94
8:PC:70:LEU:HG	8:PC:98:ASP:HA	1.50	0.94
9:DJ:319:GLY:HA2	9:DJ:357:PRO:HD3	1.49	0.94
8:KM:123:ARG:HH12	41:b4:382:LEU:HD21	1.32	0.93
9:NL:27:GLU:HA	9:NL:359:ARG:HH12	1.33	0.93
17:I:207:LEU:HD13	17:I:252:PHE:HB2	1.48	0.93
9:NN:242:PHE:HB3	9:NN:356:ILE:HD13	1.49	0.93
8:CQ:295:CYS:HB2	8:CQ:377:MET:HE3	1.47	0.93
39:a:342:GLU:O	39:a:345:LYS:HG2	1.67	0.93
10:C:485:TYR:O	8:GG:38:SER:O	1.86	0.93
8:EE:40:LYS:HE2	31:X:466:PHE:HB3	1.48	0.93
20:K2:65:GLU:HB3	39:d:437:VAL:HG22	1.48	0.92
9:QN:318:ARG:HG2	9:QN:357:PRO:HA	1.51	0.92
8:PO:313:MET:HE3	8:PO:435:VAL:HG11	1.50	0.92
19:J4:36:LEU:HB2	19:J4:73:GLU:HG2	1.48	0.92
9:MD:383:GLU:HB3	45:l:35:HIS:HE1	1.33	0.92
11:R4:413:ARG:HG2	11:R4:413:ARG:HH11	1.33	0.92
31:X:432:ASN:HB2	31:X:458:LEU:HD12	1.52	0.92
34:X6:80:GLU:HB3	34:X6:86:LEU:HA	1.52	0.92
27:P3:138:PRO:HD2	27:P3:148:LYS:HZ3	1.34	0.91
10:C:485:TYR:CE1	8:GG:41:THR:HG22	2.05	0.91
9:HF:211:CYS:HB2	9:HF:217:LEU:HD21	1.52	0.91
31:W:432:ASN:HB3	31:W:458:LEU:HD12	1.52	0.91
9:LN:231:ALA:HB2	29:S:138:MET:HE2	1.50	0.91
11:B2:180:MET:HE1	28:Q2:132:PRO:HA	1.50	0.91
8:PI:321:GLY:HA2	8:PI:359:PRO:HD3	1.52	0.91
9:WH:320:ARG:HH22	48:r:141:ILE:HG22	1.36	0.91
11:R1:323:TYR:HB2	11:R2:185:ILE:HD11	1.51	0.91
8:AA:203:MET:N	8:AA:203:MET:SD	2.45	0.90
8:GA:46:ASP:N	26:P1:108:CYS:HG	1.68	0.90
9:JN:324:LYS:HZ1	8:JO:221:ARG:HA	1.33	0.90
8:FI:259:LEU:HD21	8:FI:316:CYS:HB2	1.53	0.90
9:FB:378:PHE:HB3	9:FB:415:MET:HE1	1.52	0.90
8:FM:220:GLU:HG2	8:FM:221:ARG:HD2	1.53	0.90
11:R2:205:PRO:HD2	11:R2:206:THR:H	1.37	0.90
8:TI:170:ALA:HB3	8:TI:203:MET:HE1	1.54	0.90
8:II:321:GLY:HA2	8:II:359:PRO:HD3	1.52	0.89
30:W5:242:ASP:HB3	30:W5:310:MET:HE1	1.54	0.89
19:J4:219:ARG:HH12	9:KN:195:ASN:HB3	1.38	0.89
9:TJ:167:PHE:HE2	9:TJ:233:MET:HG3	1.37	0.89
14:T4:131:MET:HE1	14:T4:278:LEU:HD22	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TE:172:TYR:HB2	8:TE:203:MET:SD	2.12	0.89
9:AL:334:GLN:HE22	9:AL:348:ASN:H	1.20	0.89
42:f:489:ASP:HB2	42:f:496:ASN:HD21	1.37	0.89
9:OF:314:ALA:HB3	9:OF:368:ILE:HB	1.55	0.89
27:P4:86:PHE:O	27:P4:87:PHE:CD2	2.25	0.89
9:OF:143:THR:HG23	9:OF:147:MET:HE1	1.54	0.88
9:BN:133:PHE:HB2	9:BN:164:MET:HE1	1.55	0.88
8:IK:338:LYS:NZ	36:Y1:102:GLY:HA3	1.87	0.88
9:JD:330:MET:HG3	9:JD:349:VAL:HG21	1.56	0.88
9:KF:285:THR:HG22	9:KF:287:PRO:HD2	1.53	0.88
9:KP:284:LEU:HB3	9:KP:362:LYS:HZ1	1.36	0.88
8:BM:43:GLY:O	25:O5:222:LYS:HD2	1.74	0.88
8:SK:184:PRO:HB2	8:SK:398:MET:HE1	1.56	0.88
47:p:443:MET:HE3	47:p:443:MET:HA	1.54	0.88
8:NM:55:GLU:N	8:NM:61:HIS:HA	1.89	0.88
9:OJ:54:ALA:HB3	9:OJ:58:LYS:HB3	1.55	0.88
25:U:273:VAL:HG13	25:U:297:MET:HE3	1.56	0.87
9:AJ:372:THR:HA	9:AJ:422:TYR:HE2	1.38	0.87
11:B4:202:LYS:HB2	11:B4:205:PRO:HD3	1.56	0.87
30:W0:452:GLU:HA	30:W0:455:LEU:HD12	1.56	0.87
9:OF:253:LEU:HB2	9:OF:257:MET:HE1	1.54	0.87
9:BJ:324:LYS:HD2	8:BK:222:PRO:HD2	1.56	0.87
9:MP:61:PRO:HG2	9:MP:85:PHE:HA	1.56	0.87
3:3:30:ALA:HB2	9:NL:80:PRO:HA	1.56	0.87
37:YH:93:LEU:HD12	37:YH:118:MET:HE3	1.53	0.87
8:GA:259:LEU:HD21	8:GA:316:CYS:HB2	1.56	0.87
47:o:156:SER:O	47:p:483:TYR:OH	1.93	0.87
30:U8:380:ARG:HE	30:W0:305:ARG:HD3	1.39	0.87
30:V3:400:THR:HG21	30:V4:283:VAL:HG11	1.57	0.87
31:X:275:MET:HE3	31:X:276:SER:H	1.39	0.87
8:IK:338:LYS:HZ2	36:Y1:102:GLY:HA3	1.40	0.86
19:J3:86:GLY:HA2	8:OG:286:LEU:H	1.39	0.86
33:X5:7:LEU:HD23	48:s:90:THR:HG21	1.57	0.86
41:b2:402:GLN:HE22	41:b2:408:GLN:HA	1.39	0.86
9:QJ:230:SER:HA	9:QJ:233:MET:HG2	1.55	0.86
9:BF:173:PRO:HG3	9:BF:380:ARG:HD2	1.57	0.86
9:HJ:324:LYS:HD2	8:HK:222:PRO:HD2	1.57	0.86
19:J4:33:ARG:HE	19:J4:81:ILE:HA	1.38	0.86
11:R4:177:ARG:HA	11:R4:180:MET:HE2	1.57	0.86
22:M2:165:LEU:CD2	27:P4:87:PHE:HZ	1.88	0.86
8:VK:317:MET:HE1	8:VK:375:VAL:HG23	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:X8:219:GLY:HA2	34:X8:222:ARG:HD2	1.58	0.86
9:NJ:133:PHE:HB2	9:NJ:164:MET:HE1	1.57	0.86
8:QE:388:TRP:HB3	8:QE:425:LEU:HD11	1.57	0.86
8:QM:326:LYS:HZ2	9:QN:219:THR:HA	1.40	0.86
8:GA:50:ASN:O	8:GA:64:ARG:NH1	2.07	0.86
43:j:180:LEU:O	43:j:184:ALA:HB2	1.75	0.86
9:CD:271:ALA:HB1	9:CD:289:LEU:HD22	1.58	0.86
8:FG:279:GLU:HG2	17:Z3:237:ARG:HE	1.39	0.86
8:IA:271:THR:HB	8:IA:377:MET:HB3	1.56	0.86
9:VL:1:MET:HE2	48:s:159:ARG:HH12	1.40	0.86
12:S8:165:ASP:HB2	14:T1:242:PRO:HG3	1.58	0.85
12:S9:386:ILE:HG23	12:S9:434:LEU:HD22	1.58	0.85
22:M2:165:LEU:CD2	27:P4:87:PHE:CZ	2.59	0.85
8:IG:352:LYS:HE3	9:IH:178:THR:HA	1.57	0.85
17:O9:180:HIS:HB2	30:W5:38:GLN:HE22	1.38	0.85
9:WF:325:GLU:H	8:WG:221:ARG:HH22	1.23	0.85
36:Y1:147:VAL:HB	36:Y1:155:LYS:HD2	1.59	0.85
9:AP:278:SER:O	9:AP:282:ARG:HB2	1.76	0.85
9:BD:230:SER:HA	9:BD:233:MET:HE1	1.57	0.85
30:V6:201:ARG:HD3	30:V6:461:THR:HG23	1.55	0.85
9:ID:336:LYS:HE2	36:Y1:237:THR:HG23	1.57	0.85
9:IH:86:ARG:HE	9:IH:88:ASP:H	1.22	0.85
9:JL:319:GLY:HA2	9:JL:357:PRO:HD3	1.59	0.85
9:QF:319:GLY:HA2	9:QF:357:PRO:HD3	1.57	0.85
48:r:148:PRO:HD2	48:r:149:HIS:H	1.39	0.85
9:JN:2:ARG:HH12	8:JO:97:GLU:HA	1.39	0.85
9:QL:274:THR:O	9:QL:276:ARG:NH2	2.10	0.85
9:HH:378:PHE:HB3	9:HH:415:MET:HE1	1.59	0.85
8:LE:56:THR:HA	8:ME:285:GLN:HB2	1.58	0.85
8:MI:269:LEU:HD22	8:MI:303:VAL:HG11	1.58	0.85
30:U5:279:PHE:HA	30:U6:393:GLN:HE22	1.42	0.85
41:b4:206:LEU:HA	41:b4:209:MET:HE1	1.57	0.85
2:2:277:ARG:HH22	8:II:359:PRO:HD2	1.40	0.85
8:LE:437:VAL:HG12	43:i:91:ARG:HH22	1.41	0.85
8:LK:36:MET:HE3	8:LK:37:PRO:HD2	1.59	0.85
22:M2:165:LEU:HD22	27:P4:87:PHE:CZ	2.12	0.85
8:NM:53:PHE:CG	8:NM:61:HIS:CD2	2.64	0.85
9:PL:321:MET:SD	8:PM:221:ARG:NH2	2.49	0.85
30:U0:391:MET:HG2	30:U0:395:MET:HE2	1.59	0.85
30:U1:273:THR:OG1	30:V6:390:LYS:NZ	2.10	0.85
8:RM:292:THR:HG21	8:RM:331:ALA:HB1	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T4:376:ARG:NE	14:T4:380:GLU:OE1	2.08	0.85
9:UL:323:MET:HE1	8:UM:223:THR:HA	1.57	0.85
4:6:212:ARG:HH22	30:V7:273:THR:HA	1.40	0.84
9:BP:133:PHE:HB2	9:BP:164:MET:HE1	1.59	0.84
9:NJ:346:PRO:HD2	8:NK:398:MET:HE2	1.59	0.84
31:W:512:THR:HG22	31:W:521:ILE:HG22	1.58	0.84
9:HD:325:GLU:OE2	9:HD:329:GLN:NE2	2.09	0.84
23:O:55:ARG:HA	23:O:58:ILE:HD12	1.60	0.84
9:OP:253:LEU:HD13	9:OP:257:MET:HE1	1.57	0.84
9:BL:290:THR:HA	9:BL:293:MET:HE2	1.58	0.84
9:MB:44:LEU:HA	9:MB:47:ILE:HD11	1.57	0.84
9:OH:198:GLU:HA	9:OH:264:HIS:HB2	1.58	0.84
4:5:62:ARG:NH1	8:IC:44:GLY:O	2.08	0.84
9:NL:143:THR:HG22	9:NL:147:MET:HE2	1.60	0.84
23:P:187:GLN:HE22	25:V:62:LEU:HD11	1.40	0.84
22:M2:165:LEU:HD21	27:P4:87:PHE:HZ	1.43	0.84
9:OL:20:PHE:CZ	9:OL:233:MET:HB2	2.13	0.84
9:OP:143:THR:HG23	9:OP:147:MET:HE1	1.59	0.84
12:S9:400:LEU:HD21	12:S9:420:LEU:HB3	1.59	0.84
9:TD:80:PRO:HD3	47:o:138:CYS:HB3	1.58	0.84
8:WM:326:LYS:HE2	9:WN:220:PRO:HG2	1.60	0.84
8:JE:188:ILE:HG13	8:JE:189:LEU:HD12	1.57	0.84
9:LD:331:LEU:HD11	8:LE:176:GLN:HE21	1.41	0.84
9:NB:215:LEU:HD21	9:NB:273:LEU:HD22	1.60	0.84
9:OB:299:MET:HG3	9:OB:301:ALA:H	1.43	0.84
34:X6:207:THR:HB	34:X6:231:PRO:HG2	1.59	0.84
3:3:334:GLU:OE1	3:3:337:ARG:NH1	2.10	0.84
8:IK:207:GLU:HG2	8:IK:304:LYS:HE3	1.59	0.84
9:QB:73:MET:HE1	9:QB:92:PHE:HB3	1.59	0.84
48:r:135:LYS:HE2	48:r:135:LYS:HA	1.59	0.84
8:AG:175:PRO:HB3	8:AG:390:ARG:HH11	1.43	0.84
9:TD:133:PHE:HB2	9:TD:164:MET:HE1	1.60	0.84
11:B4:185:ILE:HD13	28:Q4:137:MET:HE1	1.60	0.83
8:BG:101:ASN:HA	8:BG:144:GLY:H	1.43	0.83
9:OL:20:PHE:CE1	9:OL:233:MET:HE2	2.13	0.83
8:IO:1:MET:HE2	9:IP:70:PRO:HG3	1.58	0.83
19:J4:87:LEU:HD13	8:OK:287:SER:HB3	1.59	0.83
9:JF:86:ARG:HH11	9:JF:87:PRO:HD2	1.41	0.83
12:C3:91:PHE:HB3	30:W7:56:PHE:HB2	1.61	0.83
9:CB:323:MET:H	9:CB:323:MET:HE3	1.42	0.83
9:LB:318:ARG:HG2	9:LB:358:PRO:HD3	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LO:224:TYR:HA	8:LO:227:LEU:HD12	1.58	0.83
8:NM:54:SER:C	8:NM:61:HIS:HA	2.02	0.83
8:SC:21:TRP:CZ2	8:SC:65:ALA:HB2	2.14	0.83
8:MK:292:THR:HG21	8:MK:331:ALA:HB1	1.58	0.83
8:NA:286:LEU:HD11	8:NA:291:ILE:HG23	1.57	0.83
33:X4:313:VAL:HG23	33:X4:314:GLY:H	1.40	0.83
9:HB:245:GLN:HE22	8:HC:224:TYR:HB2	1.40	0.83
17:O7:292:MET:HA	17:O7:295:ASN:HD21	1.41	0.83
9:QB:271:ALA:HA	9:QB:293:MET:HE1	1.61	0.83
14:T2:159:ARG:HD2	14:T2:429:LYS:HZ3	1.40	0.83
9:LN:24:ILE:HA	9:LN:27:GLU:HG2	1.61	0.83
8:OO:259:LEU:HD11	8:OO:316:CYS:HB2	1.60	0.83
9:FN:109:GLY:HA2	9:FN:147:MET:HE2	1.59	0.83
9:PD:325:GLU:OE2	8:PE:221:ARG:NH2	2.12	0.83
19:J1:219:ARG:HH12	41:b2:250:GLN:HB2	1.43	0.83
9:SH:345:ILE:HA	8:SI:398:MET:HE1	1.61	0.83
39:c:373:ARG:CG	39:c:376:GLN:NE2	2.42	0.83
9:DB:323:MET:HE1	8:DC:224:TYR:H	1.43	0.83
8:DC:212:ILE:HD11	8:DC:275:VAL:HG21	1.61	0.83
9:OF:213:ARG:HH21	9:OF:297:LYS:HG3	1.43	0.83
8:PM:70:LEU:HG	8:PM:98:ASP:HA	1.61	0.83
8:AC:239:THR:OG1	8:AC:243:ARG:NH1	2.12	0.82
8:KO:105:ARG:HE	8:KO:110:ILE:HD11	1.44	0.82
9:QJ:319:GLY:HA2	9:QJ:357:PRO:HD3	1.61	0.82
9:WF:256:ASN:HD21	8:WG:181:VAL:H	1.27	0.82
39:c:113:LYS:HD2	43:k:196:VAL:HG22	1.61	0.82
46:i4:1336:ILE:O	46:i4:1340:TRP:HB3	1.78	0.82
9:AF:132:GLY:HA3	9:AF:163:ILE:HG22	1.59	0.82
8:TI:206:ASN:HB3	8:TI:210:TYR:HE1	1.44	0.82
9:VN:1:MET:HE2	8:VO:72:PRO:HG3	1.61	0.82
9:KL:267:MET:HE1	9:KL:305:PRO:HG3	1.60	0.82
9:UB:293:MET:HE3	9:UB:367:PHE:HB3	1.59	0.82
8:UI:317:MET:HE1	8:UI:375:VAL:HG23	1.59	0.82
30:W2:335:GLN:NE2	30:W2:339:THR:OG1	2.11	0.82
9:MD:113:VAL:HG11	9:MD:150:LEU:HD22	1.59	0.82
28:Q2:34:LEU:HD11	12:S6:289:ARG:HH12	1.44	0.82
12:S4:393:LEU:HB2	12:S4:427:VAL:HG11	1.59	0.82
9:TL:376:GLU:HG2	9:TL:380:ARG:HH12	1.44	0.82
30:W2:163:LEU:HD11	30:W2:247:GLN:HB3	1.61	0.82
8:AE:7:ILE:HB	8:AE:137:ILE:HG12	1.61	0.82
8:AK:364:PRO:HG2	33:X4:352:ASN:HD22	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:345:ILE:HG23	8:CO:398:MET:HE1	1.61	0.82
8:FG:276:ILE:HB	8:FG:280:LYS:HG3	1.62	0.82
8:HK:372:GLN:HG3	8:HK:373:ARG:HE	1.42	0.82
35:XB:123:MET:HE1	35:XB:125:LEU:HG	1.62	0.82
9:LL:8:GLN:HE22	9:LL:17:GLY:HA3	1.45	0.82
9:OH:54:ALA:HB3	9:OH:58:LYS:HB3	1.62	0.82
9:OH:337:ASN:HD22	36:Y4:89:ILE:HD13	1.44	0.82
9:ON:299:MET:HE3	36:Y5:205:ARG:HH21	1.45	0.82
30:U8:339:THR:HB	30:U8:473:ARG:HH22	1.43	0.82
9:LB:276:ARG:HH22	29:R:146:LEU:HD21	1.45	0.82
27:P6:158:CYS:H	17:P9:56:LEU:HD11	1.44	0.82
9:PJ:321:MET:SD	8:PK:221:ARG:NH2	2.53	0.82
34:X7:14:LEU:HD13	34:X7:40:ILE:HG21	1.60	0.82
9:DN:133:PHE:HB2	9:DN:164:MET:HE1	1.62	0.81
8:UA:1:MET:HE2	8:UA:50:ASN:HB3	1.59	0.81
8:AM:326:LYS:NZ	9:AN:211:CYS:SG	2.53	0.81
8:GK:317:MET:HE1	8:GK:375:VAL:HG23	1.63	0.81
8:LE:254:GLU:HG2	9:LF:98:GLY:HA2	1.60	0.81
9:NL:293:MET:HE1	9:NL:367:PHE:HB2	1.61	0.81
42:g:485:CYS:O	42:g:499:ILE:HB	1.80	0.81
11:B3:265:PHE:HB3	11:B3:391:MET:HE1	1.63	0.81
9:DB:323:MET:SD	9:DB:323:MET:N	2.52	0.81
9:EH:325:GLU:H	8:EI:221:ARG:HH22	1.27	0.81
20:K2:65:GLU:HA	39:d:437:VAL:HA	1.62	0.81
9:LJ:372:THR:HG21	9:LJ:426:GLN:HB2	1.61	0.81
9:ML:35:THR:HG1	9:ML:37:HIS:HE2	1.23	0.81
8:NM:54:SER:HB2	8:NM:64:ARG:NH2	1.94	0.81
9:OL:20:PHE:HZ	9:OL:233:MET:HB2	1.45	0.81
17:P8:61:LYS:HD3	11:R2:350:ASN:HD21	1.46	0.81
8:QO:104:ALA:HA	8:QO:413:MET:HE3	1.62	0.81
11:R0:249:GLN:N	11:R0:249:GLN:HE21	1.77	0.81
2:2:470:ILE:HD11	8:IO:285:GLN:HG2	1.63	0.81
8:EC:107:HIS:HA	8:EC:152:LEU:HD11	1.62	0.81
27:P5:86:PHE:O	27:P5:87:PHE:CD2	2.33	0.81
30:V3:232:LEU:HD21	30:V3:321:ALA:HA	1.63	0.81
9:CB:323:MET:HE1	8:CC:223:THR:HA	1.59	0.81
8:IG:60:LYS:HD3	9:JH:280:GLN:HE22	1.45	0.81
9:IL:287:PRO:HA	9:IL:329:GLN:NE2	1.95	0.81
28:Q3:174:GLN:NE2	12:S7:118:GLU:OE1	2.14	0.81
9:QN:230:SER:HA	9:QN:233:MET:HG2	1.62	0.81
9:NN:133:PHE:HB2	9:NN:164:MET:HE1	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R0:118:THR:HG21	14:T5:413:GLU:HG3	1.62	0.81
9:SL:69:GLU:HG2	9:SL:71:GLY:H	1.46	0.81
9:TB:323:MET:H	9:TB:323:MET:HE3	1.44	0.81
8:HC:326:LYS:HZ2	9:HD:219:THR:HA	1.43	0.81
8:HO:28:HIS:HE1	8:HO:48:SER:H	1.29	0.81
8:JG:133:GLN:HG2	8:JG:252:LEU:HD13	1.63	0.81
8:KE:175:PRO:HB3	8:KE:390:ARG:HE	1.46	0.81
9:MB:73:MET:HE2	9:MB:92:PHE:HB3	1.63	0.81
9:UB:401:GLU:HB2	9:UB:403:MET:HE1	1.63	0.81
39:a:194:MET:HE2	39:b:518:LYS:HG3	1.61	0.81
4:6:287:MET:HE1	4:6:329:ILE:HG23	1.63	0.81
8:GM:56:THR:HG22	8:GM:60:LYS:H	1.44	0.81
8:SI:348:PRO:HD2	9:SJ:388:MET:HE2	1.61	0.81
33:X5:72:ASN:HD22	33:X5:75:ILE:HB	1.43	0.81
9:AF:245:GLN:HG2	33:X4:237:ILE:HD11	1.63	0.81
9:AN:58:LYS:HZ2	9:BN:280:GLN:HG3	1.46	0.81
8:IK:306:ASP:HB3	8:IK:309:HIS:CD2	2.14	0.81
8:UK:70:LEU:HG	8:UK:98:ASP:HA	1.63	0.81
9:JF:218:THR:HB	15:N2:14:ASN:HD22	1.46	0.80
22:M4:165:LEU:HD11	27:P6:87:PHE:HZ	1.46	0.80
8:MC:206:ASN:OD1	50:MC:501:GTP:N2	2.14	0.80
9:QB:318:ARG:HG2	9:QB:357:PRO:HA	1.63	0.80
8:RE:339:ARG:HH22	8:RE:342:GLN:HG2	1.45	0.80
9:ND:121:ARG:HH11	9:ND:158:GLU:HG2	1.45	0.80
8:SG:25:CYS:HA	8:SG:30:ILE:HD13	1.64	0.80
9:WB:324:LYS:HG3	8:WC:222:PRO:HD2	1.63	0.80
8:GK:1:MET:SD	8:GK:2:ARG:N	2.55	0.80
9:PF:403:MET:N	9:PF:403:MET:SD	2.54	0.80
9:RJ:112:LEU:HG	9:RJ:147:MET:HE1	1.63	0.80
8:FO:7:ILE:HD13	8:FO:137:ILE:HG12	1.64	0.80
9:KP:293:MET:HA	9:KP:298:ASN:HD21	1.47	0.80
21:L1:76:ARG:HH22	39:a:234:ILE:HB	1.46	0.80
8:NM:53:PHE:CD1	8:NM:61:HIS:O	2.34	0.80
9:QD:345:ILE:HA	8:QE:398:MET:HE1	1.64	0.80
9:QL:73:MET:SD	9:QL:73:MET:N	2.54	0.80
9:TL:198:GLU:HA	9:TL:264:HIS:HB2	1.63	0.80
1:0:52:HIS:HA	1:0:55:ARG:HG2	1.63	0.80
20:K1:16:VAL:HG12	8:UA:330:ALA:HB1	1.63	0.80
9:KH:213:ARG:HH12	9:KH:297:LYS:HD2	1.45	0.80
9:MD:8:GLN:HE21	9:MD:14:ASN:HA	1.47	0.80
8:VC:56:THR:HG22	8:VC:60:LYS:H	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:X7:123:VAL:HG21	34:X7:198:LEU:HD11	1.63	0.80
9:AD:346:PRO:HD2	8:AE:398:MET:HE2	1.64	0.80
9:GJ:346:PRO:HD2	8:GK:398:MET:HE2	1.64	0.80
8:LA:349:THR:HG23	9:LB:384:GLN:HE21	1.46	0.80
8:LC:163:LYS:NZ	45:l:112:GLU:OE1	2.14	0.80
9:QB:245:GLN:NE2	9:QB:323:MET:SD	2.55	0.80
8:UM:317:MET:HE1	8:UM:375:VAL:HG23	1.63	0.80
8:FO:171:ILE:HD13	8:FO:204:VAL:HG13	1.64	0.80
9:HD:44:LEU:HD12	9:HD:47:ILE:HG13	1.62	0.80
27:P3:125:TRP:HB3	27:P3:139:GLU:HB3	1.64	0.80
8:DQ:1:MET:HE3	8:DQ:2:ARG:H	1.47	0.80
9:IP:42:LEU:HA	9:IP:45:GLU:HG2	1.64	0.80
9:KB:213:ARG:HH22	9:KB:297:LYS:HB3	1.46	0.80
9:QJ:309:ARG:H	9:QJ:372:THR:HB	1.47	0.80
9:SH:375:GLN:HB3	9:SH:422:TYR:HE2	1.46	0.80
8:FC:161:TYR:HE1	36:Y3:26:PRO:HD3	1.47	0.80
9:JD:34:GLY:HA3	9:JD:58:LYS:HE2	1.64	0.80
9:MB:121:ARG:HG2	37:YA:32:MET:HE1	1.62	0.80
9:OJ:278:SER:O	9:OJ:282:ARG:HB2	1.82	0.80
4:6:19:PRO:O	4:6:22:GLN:NE2	2.14	0.80
9:JF:202:ILE:HA	9:JF:300:MET:HE1	1.64	0.80
9:JN:112:LEU:HB2	9:JN:147:MET:HE1	1.63	0.80
8:JQ:339:ARG:NH1	8:JQ:339:ARG:O	2.15	0.80
9:SD:286:VAL:HG22	9:SD:321:MET:HE2	1.62	0.80
14:T5:336:ILE:HA	14:T5:339:LEU:HD13	1.64	0.80
8:DE:203:MET:H	8:DE:203:MET:HE3	1.47	0.79
9:DF:256:ASN:HD21	8:DG:181:VAL:H	1.30	0.79
9:GJ:16:ILE:HD11	9:GJ:136:THR:HB	1.64	0.79
9:HD:47:ILE:HG22	9:HD:51:TYR:HB2	1.62	0.79
9:OH:296:ALA:HA	9:OH:299:MET:HE3	1.62	0.79
41:b4:410:PRO:HG2	44:h4:110:LEU:HD11	1.64	0.79
9:BN:323:MET:SD	9:BN:323:MET:N	2.54	0.79
8:LC:1:MET:SD	8:LC:1:MET:N	2.48	0.79
9:LL:276:ARG:HG3	29:S:199:MET:HE1	1.64	0.79
9:QB:358:PRO:HG2	9:QB:361:LEU:HB3	1.63	0.79
8:QK:104:ALA:HA	8:QK:413:MET:HE3	1.64	0.79
8:TI:203:MET:HA	8:TI:203:MET:HE2	1.64	0.79
43:j:222:PRO:HA	43:j:225:ILE:HD12	1.63	0.79
4:j1:361:ARG:NH2	4:j1:375:CYS:SG	2.54	0.79
9:DB:345:ILE:HG23	8:DC:398:MET:HE1	1.62	0.79
9:OB:216:LYS:HD3	9:OB:275:SER:HB2	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:a:338:GLN:O	39:a:341:MET:HG2	1.81	0.79
40:a3:13:ILE:HB	40:a3:35:MET:HE1	1.65	0.79
8:AK:298:PRO:HG3	8:AK:308:ARG:HE	1.47	0.79
9:IF:337:ASN:ND2	36:Y1:202:MET:SD	2.55	0.79
9:LF:321:MET:HG2	9:LF:363:MET:HE3	1.63	0.79
12:S9:380:GLU:HG3	12:S9:384:LYS:HE3	1.65	0.79
9:SB:256:ASN:HD21	8:SC:181:VAL:H	1.29	0.79
11:B0:7:LYS:HD3	14:D1:326:LEU:HB3	1.62	0.79
8:BK:382:THR:HA	8:BK:432:TYR:HE2	1.47	0.79
20:K2:65:GLU:HB3	39:d:437:VAL:CG2	2.11	0.79
9:KF:73:MET:HE2	9:KF:92:PHE:HB3	1.63	0.79
22:M1:159:LYS:HD2	27:P3:68:TYR:HE2	1.46	0.79
22:M3:23:MET:HG3	22:M3:24:PRO:HD2	1.64	0.79
24:O2:83:PHE:HE1	17:O9:82:ARG:HH21	1.30	0.79
8:SK:25:CYS:HA	8:SK:30:ILE:HD13	1.65	0.79
9:TJ:376:GLU:HG2	9:TJ:380:ARG:HH12	1.46	0.79
30:U1:391:MET:HE1	30:U2:270:LEU:HD21	1.64	0.79
9:UN:267:MET:HE2	9:UN:299:MET:HG2	1.63	0.79
43:i:189:SER:HB3	43:i:192:GLU:HB3	1.62	0.79
7:A5:193:ASN:OD1	7:A5:194:ASN:N	2.15	0.79
8:DG:119:LEU:HD11	8:DG:156:ARG:HG2	1.65	0.79
8:NM:54:SER:HB2	8:NM:64:ARG:NE	1.98	0.79
31:Z:275:MET:HE3	31:Z:276:SER:H	1.47	0.79
10:C:485:TYR:CE1	8:GG:41:THR:CG2	2.64	0.79
9:FN:1:MET:SD	9:FN:2:ARG:NE	2.54	0.79
9:JH:396:HIS:NE2	9:JH:397:TRP:CE2	2.51	0.79
8:LO:7:ILE:HD13	8:LO:137:ILE:HG12	1.65	0.79
9:OB:221:THR:N	9:OB:224:ASP:OD2	2.16	0.79
9:OH:294:PHE:CE1	36:Y4:89:ILE:HA	2.18	0.79
9:PJ:1:MET:HE2	8:PK:72:PRO:HG3	1.65	0.79
29:S:319:ALA:HA	29:S:322:LEU:HD12	1.65	0.79
9:UJ:229:VAL:HG12	9:UJ:233:MET:HE2	1.65	0.79
9:VH:214:THR:OG1	9:VH:297:LYS:NZ	2.15	0.79
9:VL:324:LYS:HG3	8:VM:222:PRO:HD2	1.62	0.79
9:WH:267:MET:HG3	9:WH:299:MET:HE1	1.65	0.79
9:OJ:35:THR:HG23	9:OJ:58:LYS:HZ3	1.48	0.79
8:RE:215:ARG:NH2	8:RE:299:ALA:O	2.16	0.79
8:TG:76:ASP:HA	8:TG:79:ARG:HD2	1.65	0.79
8:UO:317:MET:HE1	8:UO:375:VAL:HG23	1.64	0.79
8:HO:90:GLU:HB3	8:HO:121:ARG:HH21	1.47	0.79
9:OJ:20:PHE:CZ	9:OJ:233:MET:HE2	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:P5:22:MET:HE1	40:a2:7:PHE:HB2	1.65	0.79
9:AD:8:GLN:HE21	9:AD:17:GLY:HA3	1.47	0.79
9:AD:306:ARG:HE	37:YB:24:GLU:HG2	1.45	0.79
8:AG:175:PRO:HB3	8:AG:390:ARG:NH1	1.97	0.79
8:BK:91:GLN:HE22	8:BK:125:LEU:HD21	1.47	0.79
8:GA:258:ASN:HD21	9:GB:179:VAL:H	1.30	0.79
8:KI:76:ASP:HA	8:KI:79:ARG:HD2	1.65	0.79
9:LF:286:VAL:HG22	9:LF:363:MET:HE1	1.63	0.79
8:OC:341:ILE:HG12	36:Y4:182:PRO:HG3	1.64	0.79
14:T1:30:ALA:HB1	14:T2:189:LEU:HD11	1.64	0.79
8:AA:326:LYS:HD2	9:AB:220:PRO:HD2	1.65	0.78
9:IL:287:PRO:HA	9:IL:329:GLN:HE22	1.47	0.78
9:JH:402:GLY:N	9:JH:403:MET:HE2	1.97	0.78
8:NC:317:MET:HE1	8:NC:375:VAL:HG23	1.64	0.78
9:NL:27:GLU:HA	9:NL:359:ARG:NH1	1.98	0.78
8:NM:278:ALA:HA	8:NM:369:ALA:HB2	1.64	0.78
8:GG:8:HIS:HE1	8:GG:21:TRP:HE1	1.28	0.78
8:GK:292:THR:HG21	8:GK:331:ALA:HB1	1.65	0.78
9:JP:284:LEU:HD13	9:JP:362:LYS:HB2	1.66	0.78
9:LB:231:ALA:HB2	29:R:138:MET:HE3	1.63	0.78
12:S7:123:ASP:OD2	12:S8:437:ARG:NH2	2.17	0.78
41:b4:382:LEU:HD23	41:b4:382:LEU:H	1.48	0.78
11:B5:290:ILE:HD11	11:B5:366:LEU:HB3	1.65	0.78
9:CB:133:PHE:HB2	9:CB:164:MET:HE1	1.64	0.78
9:GL:8:GLN:HB3	9:GL:65:LEU:HA	1.65	0.78
8:HI:288:VAL:HG21	8:HI:327:ASP:HB3	1.64	0.78
9:UB:237:THR:HA	9:UB:240:LEU:HD13	1.65	0.78
12:C3:119:ARG:HD3	24:O4:96:MET:HE1	1.65	0.78
8:DE:258:ASN:HD21	9:DF:179:VAL:H	1.31	0.78
9:EN:346:PRO:HD2	8:EO:398:MET:HE1	1.66	0.78
8:GK:88:HIS:NE2	8:HK:284:GLU:OE1	2.16	0.78
9:JF:256:ASN:HD21	8:JG:181:VAL:H	1.30	0.78
8:NI:439:SER:HB3	9:NJ:391:ARG:HH21	1.48	0.78
9:OJ:358:PRO:HG2	9:OJ:361:LEU:HB3	1.64	0.78
28:Q1:142:ARG:HH21	28:Q1:144:ILE:HD11	1.48	0.78
9:QJ:324:LYS:HG3	8:QK:222:PRO:HD2	1.65	0.78
9:WH:207:LEU:HD22	9:WH:225:LEU:HG	1.64	0.78
31:Z:720:VAL:HA	31:Z:724:MET:HE1	1.65	0.78
9:AH:372:THR:HG21	9:AH:426:GLN:HB2	1.65	0.78
19:J4:74:ARG:HD3	19:J4:78:LEU:HB2	1.66	0.78
22:M4:122:LYS:HD3	22:M4:131:LEU:HD22	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MH:314:ALA:HB3	9:MH:368:ILE:HB	1.66	0.78
8:NI:257:THR:HA	9:NJ:397:TRP:CZ3	2.17	0.78
8:PO:326:LYS:HD2	9:PP:220:PRO:HD2	1.64	0.78
9:QH:309:ARG:H	9:QH:372:THR:HB	1.47	0.78
8:DG:89:PRO:HB2	8:EE:280:LYS:HZ2	1.48	0.78
9:GN:330:MET:HE2	9:GN:349:VAL:HG11	1.65	0.78
9:LL:173:PRO:HG3	9:LL:380:ARG:HD2	1.65	0.78
8:QO:385:ALA:HA	8:QO:388:TRP:HZ3	1.49	0.78
39:a:149:MET:HE1	42:f:538:ARG:HH21	1.48	0.78
9:AB:129:CYS:HB3	8:AC:96:LYS:HZ3	1.47	0.78
9:AL:109:GLY:HA2	9:AL:147:MET:HE3	1.66	0.78
9:CJ:216:LYS:HB3	22:M3:191:ARG:HD3	1.64	0.78
8:CO:154:MET:HA	8:CO:157:LEU:HB2	1.65	0.78
8:HO:69:ASP:OD1	8:HO:71:GLU:N	2.15	0.78
11:R0:309:MET:HE1	11:R1:194:LEU:HB3	1.66	0.78
41:b4:393:LEU:HD21	41:b5:115:ARG:HH22	1.48	0.78
10:B:112:GLN:HA	10:B:115:ARG:HE	1.49	0.78
14:D4:136:LEU:HB3	14:D4:140:ARG:HH12	1.49	0.78
8:IE:298:PRO:HA	8:IE:301:GLN:HG2	1.65	0.78
8:IO:55:GLU:OE1	8:IO:61:HIS:CE1	2.37	0.78
8:LI:254:GLU:HG2	9:LJ:98:GLY:HA2	1.65	0.78
9:MN:143:THR:HG23	9:MN:147:MET:HE3	1.66	0.78
9:OF:198:GLU:HA	9:OF:264:HIS:HB2	1.66	0.78
9:PL:372:THR:HA	9:PL:422:TYR:HE1	1.48	0.78
8:QC:23:LEU:HB2	8:QC:229:ARG:HH22	1.48	0.78
12:S3:266:ARG:HH22	14:T3:49:ALA:H	1.31	0.78
30:U8:333:TRP:NE1	30:V3:352:ASP:OD1	2.15	0.78
11:B0:7:LYS:NZ	14:D1:330:THR:OG1	2.16	0.78
9:EH:242:PHE:HB3	9:EH:356:ILE:HD13	1.65	0.78
8:IA:70:LEU:HG	8:IA:98:ASP:HA	1.66	0.78
9:NH:54:ALA:HB3	9:NH:58:LYS:HB2	1.66	0.78
9:NJ:346:PRO:HD3	8:NK:397:LEU:HD11	1.65	0.78
11:R4:130:ARG:HH12	11:R5:11:ARG:HB3	1.49	0.78
30:U8:195:LEU:HB2	30:U8:215:LEU:HD21	1.66	0.78
9:HJ:242:PHE:HB3	9:HJ:356:ILE:HD12	1.66	0.78
9:NH:252:LYS:NZ	50:NI:501:GTP:O3G	2.16	0.78
24:O1:92:HIS:CD2	24:O1:96:MET:HE1	2.19	0.78
27:P7:170:ASN:O	27:P7:171:ARG:NH1	2.16	0.78
9:PH:286:VAL:HG21	9:PH:321:MET:HG2	1.66	0.78
8:RM:216:ASN:HB2	8:RM:275:VAL:HG23	1.66	0.78
8:SG:204:VAL:HG12	8:SG:302:MET:HG3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UN:143:THR:HA	9:UN:147:MET:HE3	1.66	0.78
9:VL:276:ARG:HH22	39:b:399:ASP:HA	1.49	0.78
42:f:383:MET:HE3	42:f:429:CYS:HA	1.66	0.78
14:D1:238:VAL:HG12	14:D2:351:ARG:HG2	1.64	0.77
9:OH:291:GLN:HE21	36:Y4:87:TYR:HB3	1.49	0.77
8:OK:56:THR:HA	8:PK:285:GLN:HB3	1.66	0.77
9:QD:324:LYS:H	8:QE:221:ARG:HH22	1.31	0.77
9:RF:73:MET:N	9:RF:73:MET:SD	2.56	0.77
12:S8:289:ARG:O	12:S8:289:ARG:NE	2.16	0.77
30:V7:242:ASP:HB3	30:V7:310:MET:HE3	1.67	0.77
9:VJ:2:ARG:HG2	8:VK:96:LYS:HE2	1.66	0.77
35:XF:87:PHE:H	35:XF:107:ASN:HD21	1.30	0.77
9:AB:323:MET:SD	8:AC:210:TYR:OH	2.42	0.77
8:BM:90:GLU:HG2	8:BM:121:ARG:HE	1.50	0.77
8:CI:82:THR:HA	40:a2:10:LYS:HZ1	1.48	0.77
9:ID:165:ASN:ND2	9:ID:200:TYR:OH	2.17	0.77
9:LJ:318:ARG:HG2	9:LJ:358:PRO:HD3	1.66	0.77
9:QL:256:ASN:HD21	8:QM:181:VAL:H	1.32	0.77
9:VJ:245:GLN:HE21	9:VJ:353:VAL:HB	1.49	0.77
41:b1:395:ARG:HD3	41:b1:397:LEU:HB2	1.65	0.77
6:A:50:ARG:NH2	9:JF:78:SER:O	2.16	0.77
7:A5:5:LEU:HD21	33:X5:93:PRO:HG2	1.66	0.77
9:FB:345:ILE:HA	8:FC:398:MET:HE1	1.65	0.77
9:IF:324:LYS:HG2	8:IG:210:TYR:CZ	2.19	0.77
22:M4:165:LEU:HD11	27:P6:87:PHE:CZ	2.19	0.77
8:PG:209:ILE:HA	8:PG:212:ILE:HG22	1.66	0.77
8:QC:70:LEU:HG	8:QC:98:ASP:HA	1.67	0.77
8:QM:234:ILE:HD11	8:QM:272:TYR:HB2	1.67	0.77
8:SE:220:GLU:HG2	8:SE:221:ARG:HG2	1.66	0.77
8:SE:317:MET:HE1	8:SE:375:VAL:HG23	1.65	0.77
30:U7:89:ARG:HG3	30:U8:208:HIS:H	1.47	0.77
9:EN:73:MET:HE2	9:EN:92:PHE:HB3	1.66	0.77
9:KD:401:GLU:O	41:b2:462:ARG:NH2	2.17	0.77
8:LK:214:ARG:O	8:LK:214:ARG:NH1	2.17	0.77
9:QB:238:THR:HG1	9:QB:354:CYS:HG	1.32	0.77
9:RH:125:GLU:OE2	9:RH:159:TYR:OH	2.02	0.77
8:RM:295:CYS:HB3	8:RM:377:MET:HE2	1.66	0.77
30:V1:396:LEU:HD13	30:V2:284:GLU:HA	1.66	0.77
36:Y5:191:GLN:HB2	36:Y5:196:LYS:HA	1.67	0.77
47:p:446:GLU:O	47:p:449:ASP:OD1	2.03	0.77
9:FL:382:SER:HB2	9:FL:415:MET:HE1	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JE:324:VAL:HG12	8:JE:326:LYS:H	1.46	0.77
8:KM:195:LEU:HD21	44:h4:128:GLN:HE22	1.50	0.77
27:P6:132:PHE:HB2	27:P6:135:LEU:HD23	1.67	0.77
31:Z:488:LYS:HB3	31:Z:500:GLU:HG3	1.64	0.77
8:EC:317:MET:HE1	8:EC:377:MET:HE3	1.66	0.77
8:FI:326:LYS:HZ1	9:FJ:220:PRO:HD2	1.50	0.77
9:HH:173:PRO:HG3	9:HH:380:ARG:HD2	1.66	0.77
9:HP:377:LEU:HD22	9:HP:380:ARG:HH22	1.49	0.77
8:IO:7:ILE:HB	8:IO:137:ILE:HG22	1.66	0.77
8:IO:254:GLU:HG3	9:IP:98:GLY:HA2	1.66	0.77
9:JD:83:GLN:O	9:KB:281:TYR:OH	2.01	0.77
8:JI:258:ASN:HD21	9:JJ:179:VAL:HG13	1.49	0.77
9:OF:299:MET:HE1	9:OF:305:PRO:HG3	1.64	0.77
9:QD:198:GLU:HA	9:QD:264:HIS:HB2	1.67	0.77
9:RJ:256:ASN:HD21	8:RK:181:VAL:H	1.33	0.77
31:Z:215:SER:HA	31:Z:301:ARG:HH12	1.49	0.77
8:CQ:252:LEU:HA	8:CQ:255:PHE:CE1	2.19	0.77
8:FA:271:THR:HB	8:FA:377:MET:HB3	1.64	0.77
9:IB:316:VAL:HG12	9:IB:352:ALA:HB3	1.66	0.77
12:S2:134:GLN:O	12:S2:138:THR:OG1	2.01	0.77
8:VI:65:ALA:O	8:VI:91:GLN:NE2	2.17	0.77
8:CI:326:LYS:NZ	9:CJ:220:PRO:O	2.18	0.77
19:J4:33:ARG:HD2	19:J4:33:ARG:H	1.50	0.77
9:JH:402:GLY:O	9:JH:403:MET:SD	2.43	0.77
9:LF:257:MET:HE3	9:LF:314:ALA:HB2	1.65	0.77
9:UL:324:LYS:HZ3	8:UM:222:PRO:HD2	1.50	0.77
9:IJ:324:LYS:HE2	8:IK:222:PRO:HB2	1.67	0.77
9:IP:143:THR:HA	9:IP:147:MET:HE3	1.66	0.77
8:JK:292:THR:HG21	8:JK:331:ALA:HB1	1.65	0.77
8:KC:292:THR:HG21	8:KC:331:ALA:HB1	1.67	0.77
8:NI:258:ASN:HD22	8:NI:352:LYS:HB2	1.49	0.77
8:PI:332:ILE:HD13	8:PI:335:ILE:HD11	1.64	0.77
11:R4:97:GLU:OE2	11:R4:101:GLN:NE2	2.17	0.77
9:RL:321:MET:HE2	9:RL:363:MET:HE3	1.67	0.77
8:TC:348:PRO:HD2	9:TD:388:MET:HE1	1.66	0.77
9:CB:323:MET:HA	9:CB:326:VAL:HB	1.67	0.77
8:FG:258:ASN:HD22	8:FG:352:LYS:HB2	1.50	0.77
8:JE:50:ASN:O	8:JE:64:ARG:NH1	2.18	0.77
9:QN:319:GLY:HA2	9:QN:357:PRO:HG3	1.65	0.77
9:RF:112:LEU:HB3	9:RF:147:MET:HE1	1.67	0.77
8:RM:216:ASN:HB2	8:RM:275:VAL:CG2	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Y1:112:THR:HA	36:Y1:115:VAL:HG12	1.65	0.77
39:a:170:ARG:HG2	42:f:544:LEU:HD21	1.64	0.77
47:p:343:ALA:HA	47:p:346:ILE:HD12	1.67	0.77
8:CO:292:THR:HG21	8:CO:331:ALA:HB1	1.65	0.76
15:E:123:MET:HE3	15:E:125:ARG:HB3	1.66	0.76
8:IE:298:PRO:HB3	8:IE:307:PRO:HD2	1.68	0.76
9:IN:309:ARG:H	9:IN:372:THR:HB	1.50	0.76
9:LD:69:GLU:HG2	9:LD:71:GLY:H	1.50	0.76
9:LJ:257:MET:HE1	9:LJ:370:ASN:HB2	1.65	0.76
9:NH:292:GLN:O	9:NH:298:ASN:ND2	2.17	0.76
9:OJ:252:LYS:HD3	8:OK:100:ALA:HA	1.67	0.76
30:V1:419:GLU:HG2	30:V2:134:MET:HE3	1.66	0.76
8:GA:317:MET:HB3	8:GA:353:VAL:HA	1.67	0.76
8:IC:165:SER:HB3	8:IC:256:GLN:HE22	1.50	0.76
8:IG:258:ASN:N	8:IG:258:ASN:OD1	2.16	0.76
9:IP:20:PHE:HE2	9:IP:233:MET:HB2	1.51	0.76
8:KC:2:ARG:HH22	9:KD:71:GLY:HA3	1.50	0.76
17:N:286:MET:SD	17:N:286:MET:N	2.59	0.76
8:OG:206:ASN:HA	8:OG:209:ILE:HD12	1.67	0.76
12:S6:183:ARG:HH12	14:T4:396:GLN:HE22	1.33	0.76
9:SL:278:SER:HB3	9:SL:282:ARG:HH12	1.50	0.76
4:5:53:SER:HA	4:5:70:LYS:HA	1.65	0.76
9:JH:401:GLU:C	9:JH:403:MET:HE2	2.11	0.76
9:LB:324:LYS:NZ	8:LC:210:TYR:HB3	2.00	0.76
8:RG:108:TYR:CG	8:RG:413:MET:HE2	2.20	0.76
30:V5:434:LEU:HG	30:V5:438:GLN:HE22	1.51	0.76
39:a:194:MET:HB3	39:b:521:LYS:HE2	1.67	0.76
9:AD:210:ILE:HD11	9:AD:298:ASN:HA	1.67	0.76
9:EB:323:MET:SD	9:EB:323:MET:N	2.55	0.76
9:GF:97:ALA:HA	9:GF:103:LYS:HD3	1.67	0.76
8:HM:191:THR:HG21	8:HM:425:LEU:HD21	1.66	0.76
27:P6:160:HIS:ND1	27:P6:160:HIS:O	2.18	0.76
9:QB:73:MET:HB3	9:QB:77:ARG:HH21	1.51	0.76
9:QD:309:ARG:H	9:QD:372:THR:HB	1.49	0.76
9:SN:133:PHE:HD1	9:SN:164:MET:HE1	1.49	0.76
8:WI:258:ASN:HD21	9:WJ:178:THR:HA	1.50	0.76
9:AN:378:PHE:HB3	9:AN:415:MET:HE1	1.67	0.76
8:DC:439:SER:HB3	9:DD:391:ARG:HE	1.50	0.76
8:GI:31:GLN:HG2	8:GI:35:GLN:H	1.51	0.76
9:GN:156:ARG:HD3	9:GN:164:MET:HG3	1.67	0.76
9:ND:372:THR:HA	9:ND:422:TYR:HE1	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NN:198:GLU:HA	9:NN:264:HIS:HB2	1.68	0.76
11:R1:325:SER:H	11:R1:328:GLU:HB2	1.50	0.76
11:R4:136:GLU:HB3	11:R4:261:THR:HG22	1.66	0.76
9:SB:267:MET:HE1	9:SB:374:ILE:HD12	1.65	0.76
41:b2:390:ARG:HG2	41:b2:391:GLU:HG2	1.67	0.76
42:f:373:PRO:HD2	48:r:135:LYS:HE3	1.68	0.76
9:AP:42:LEU:HA	17:O7:213:ILE:HD11	1.65	0.76
9:DL:173:PRO:HG3	9:DL:380:ARG:HE	1.50	0.76
8:IE:64:ARG:NH1	8:IE:129:CYS:SG	2.59	0.76
8:LC:292:THR:HG21	8:LC:331:ALA:HB1	1.68	0.76
9:OJ:293:MET:HE3	9:OJ:367:PHE:HB2	1.67	0.76
39:c:373:ARG:O	39:c:376:GLN:CD	2.29	0.76
8:MK:388:TRP:HB3	8:MK:425:LEU:HD21	1.67	0.76
9:MN:267:MET:HG2	9:MN:299:MET:HE2	1.66	0.76
8:NE:50:ASN:O	8:NE:64:ARG:NH1	2.19	0.76
9:NF:323:MET:HE1	8:NG:224:TYR:CG	2.21	0.76
8:NG:8:HIS:HE1	8:NG:21:TRP:HE1	1.32	0.76
25:O5:442:TYR:OH	25:O5:447:ASP:OD1	2.02	0.76
9:QH:48:ASN:O	9:QH:62:ARG:NH2	2.19	0.76
9:TL:256:ASN:HD21	8:TM:181:VAL:H	1.34	0.76
9:VH:245:GLN:HE21	9:VH:353:VAL:HB	1.49	0.76
34:X8:134:ARG:HD3	34:X8:190:PRO:HB3	1.68	0.76
37:YB:175:ARG:HA	37:YB:231:MET:HE3	1.68	0.76
9:EJ:1:MET:HE1	8:EK:96:LYS:HA	1.68	0.76
9:EJ:57:GLY:H	17:Z4:227:ARG:HH12	1.34	0.76
8:JK:265:ILE:HG12	8:JK:432:TYR:HE1	1.48	0.76
8:JO:15:GLN:NE2	50:JO:501:GTP:O6	2.19	0.76
8:MI:388:TRP:HB3	8:MI:425:LEU:HD21	1.67	0.76
9:NH:198:GLU:HA	9:NH:264:HIS:HB2	1.67	0.76
9:QN:362:LYS:HD3	9:QN:363:MET:HG3	1.67	0.76
11:R3:198:ASN:HA	14:T2:213:MET:HE1	1.68	0.76
25:T:241:GLN:H	25:T:269:MET:HE1	1.48	0.76
8:CC:191:THR:HG21	8:CC:425:LEU:HD21	1.66	0.76
8:DC:36:MET:HE3	8:DC:37:PRO:HD2	1.68	0.76
9:HJ:372:THR:HA	9:HJ:422:TYR:HE1	1.50	0.76
9:SJ:256:ASN:HD21	8:SK:181:VAL:H	1.34	0.76
30:U9:218:GLU:HG2	30:U9:335:GLN:HG3	1.66	0.76
9:WD:324:LYS:HG3	8:WE:222:PRO:HD2	1.67	0.76
3:3:338:GLU:HA	3:3:341:ILE:HD11	1.68	0.76
11:B5:405:VAL:HG13	12:S9:320:LYS:HD2	1.66	0.76
9:IB:358:PRO:HG2	9:IB:361:LEU:HB3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NJ:198:GLU:HA	9:NJ:264:HIS:HB2	1.67	0.76
8:VE:326:LYS:HD2	9:VF:220:PRO:HD2	1.68	0.76
9:VL:401:GLU:HB2	9:VL:403:MET:HE1	1.68	0.76
2:1:425:SER:HA	9:IB:359:ARG:HH22	1.51	0.75
14:D5:396:GLN:NE2	14:D5:397:ASP:OD1	2.19	0.75
8:GA:271:THR:HB	8:GA:377:MET:HB3	1.67	0.75
9:GF:7:LEU:HD11	9:GF:133:PHE:HB3	1.66	0.75
9:IB:323:MET:HE1	8:IC:224:TYR:CG	2.21	0.75
9:JB:345:ILE:HG23	8:JC:398:MET:HE1	1.68	0.75
8:KG:259:LEU:HD21	8:KG:316:CYS:HB2	1.68	0.75
8:LK:437:VAL:O	9:LL:391:ARG:NH2	2.18	0.75
8:MM:271:THR:HB	8:MM:377:MET:HB3	1.67	0.75
9:NB:323:MET:N	9:NB:323:MET:SD	2.54	0.75
9:QB:286:VAL:HG22	9:QB:321:MET:HE3	1.68	0.75
9:QN:271:ALA:HA	9:QN:293:MET:HE1	1.67	0.75
9:VN:209:ASP:HA	9:VN:212:PHE:HD1	1.51	0.75
8:WG:217:LEU:HB3	8:WG:219:ILE:HG12	1.67	0.75
3:4:495:GLN:OE1	3:4:497:LEU:N	2.19	0.75
8:GM:308:ARG:HE	36:Y2:69:ARG:HB3	1.52	0.75
9:HF:346:PRO:HD2	8:HG:398:MET:HE3	1.66	0.75
8:IC:254:GLU:HG2	9:ID:98:GLY:HA2	1.68	0.75
19:J3:36:LEU:HD12	19:J3:40:ASP:HB3	1.68	0.75
9:JF:334:GLN:HE22	9:JF:347:ASN:HA	1.51	0.75
9:JL:1:MET:SD	9:JL:2:ARG:N	2.58	0.75
8:LM:339:ARG:HH11	41:b4:379:LYS:HD2	1.52	0.75
8:PK:154:MET:HE3	8:PK:193:THR:HG22	1.67	0.75
9:PN:198:GLU:HA	9:PN:264:HIS:HB2	1.65	0.75
8:UI:203:MET:HE3	8:UI:203:MET:H	1.51	0.75
8:VC:206:ASN:HA	8:VC:209:ILE:HD12	1.68	0.75
8:WC:292:THR:HG21	8:WC:331:ALA:HB1	1.66	0.75
8:AI:7:ILE:HD12	8:AI:137:ILE:HG12	1.68	0.75
8:EE:235:VAL:HA	8:EE:238:ILE:HD12	1.67	0.75
8:GA:377:MET:HE3	8:GA:378:LEU:H	1.51	0.75
9:GD:1:MET:HE1	9:GD:2:ARG:HE	1.50	0.75
19:J5:103:TRP:HE1	9:OP:284:LEU:HD11	1.51	0.75
8:JK:50:ASN:O	8:JK:64:ARG:NH1	2.19	0.75
9:KH:318:ARG:HG2	9:KH:358:PRO:HD3	1.68	0.75
8:KI:292:THR:HG21	8:KI:331:ALA:HB1	1.67	0.75
8:NG:117:LEU:HD12	36:Y4:111:SER:HB2	1.67	0.75
8:NG:125:LEU:HD23	8:NG:128:LEU:HD21	1.67	0.75
9:PB:325:GLU:H	8:PC:221:ARG:HH22	1.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QI:292:THR:HG21	8:QI:331:ALA:HB1	1.68	0.75
8:TC:7:ILE:HD13	8:TC:137:ILE:HG12	1.67	0.75
8:WC:265:ILE:HD13	8:WC:313:MET:HE1	1.67	0.75
9:WD:215:LEU:HB3	9:WD:217:LEU:HD23	1.68	0.75
35:XC:36:ARG:HH12	37:YB:195:ILE:HG12	1.51	0.75
8:CI:82:THR:HA	40:a2:10:LYS:NZ	1.99	0.75
14:D3:267:ARG:HH12	14:D3:270:ARG:HD2	1.49	0.75
9:GD:375:GLN:HB3	9:GD:422:TYR:HE1	1.51	0.75
9:HD:372:THR:HA	9:HD:422:TYR:HE1	1.52	0.75
8:IA:2:ARG:HH22	9:IB:71:GLY:HA3	1.51	0.75
9:MN:372:THR:HG21	9:MN:426:GLN:HB2	1.68	0.75
8:RM:273:ALA:HB2	8:RM:375:VAL:HG12	1.68	0.75
8:UA:165:SER:HB3	8:UA:256:GLN:HE22	1.50	0.75
41:b5:111:LEU:HD23	41:b5:114:HIS:HB2	1.68	0.75
9:EJ:346:PRO:HD2	8:EK:398:MET:HE1	1.69	0.75
9:FH:219:THR:HG23	25:V:457:ARG:HH21	1.49	0.75
9:LB:390:ARG:HA	43:h:97:MET:HE1	1.69	0.75
9:OH:237:THR:HA	9:OH:240:LEU:HD13	1.66	0.75
9:OJ:1:MET:N	9:OJ:3:GLU:OE1	2.19	0.75
9:WN:198:GLU:HA	9:WN:264:HIS:HB2	1.69	0.75
39:a:359:GLU:HG2	39:a:362:ARG:HH21	1.52	0.75
8:AC:27:GLU:OE1	8:AC:243:ARG:NH2	2.19	0.75
9:BB:323:MET:HE2	8:BC:224:TYR:HE1	1.51	0.75
8:EM:370:LYS:HD3	31:Z:422:MET:HE1	1.68	0.75
9:JB:233:MET:H	9:JB:233:MET:HE3	1.51	0.75
9:JN:165:ASN:HB3	9:JN:198:GLU:HG3	1.68	0.75
9:JP:198:GLU:HA	9:JP:264:HIS:HB2	1.69	0.75
9:KP:284:LEU:HB3	9:KP:362:LYS:NZ	2.01	0.75
9:LD:1:MET:HE2	9:LD:2:ARG:HD2	1.68	0.75
9:NF:121:ARG:HH21	36:Y4:123:SER:H	1.34	0.75
9:OF:379:LYS:NZ	9:OF:383:GLU:OE1	2.20	0.75
9:QJ:207:LEU:HD13	9:QJ:225:LEU:HB3	1.69	0.75
9:IH:248:ALA:HA	9:IH:252:LYS:HD3	1.69	0.75
19:J4:219:ARG:HA	19:J4:222:GLN:HG2	1.69	0.75
8:MC:292:THR:HG21	8:MC:331:ALA:HB1	1.67	0.75
12:S8:194:VAL:HG23	12:S8:476:MET:HE3	1.66	0.75
9:EN:267:MET:HG2	9:EN:299:MET:HE2	1.67	0.75
8:GM:292:THR:HG21	8:GM:331:ALA:HB1	1.68	0.75
8:HK:11:GLN:HE21	8:HK:15:GLN:HE22	1.35	0.75
8:HK:274:PRO:HB2	8:HK:276:ILE:HG12	1.69	0.75
9:JL:66:VAL:HG11	9:JL:147:MET:HE1	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LJ:265:PHE:HB3	9:LJ:374:ILE:HD13	1.69	0.75
9:ML:173:PRO:HB3	9:ML:380:ARG:HD2	1.68	0.75
9:QH:207:LEU:HD21	9:QH:225:LEU:HB3	1.67	0.75
8:QK:36:MET:HE3	8:QK:37:PRO:HD2	1.68	0.75
9:QP:356:ILE:HD12	9:QP:357:PRO:HD2	1.69	0.75
12:S0:121:ARG:NH1	12:S1:378:THR:OG1	2.20	0.75
30:U6:404:ASN:OD1	30:U6:405:VAL:N	2.18	0.75
7:A2:204:VAL:HG13	7:A2:206:ARG:HH21	1.51	0.75
8:CM:89:PRO:HD3	8:DM:283:HIS:CD2	2.22	0.75
8:GI:298:PRO:HA	8:GI:301:GLN:HG2	1.69	0.75
8:IO:399:TYR:OH	8:IO:415:GLU:OE2	2.02	0.75
8:JC:36:MET:HE3	8:JC:37:PRO:HD2	1.68	0.75
8:JM:108:TYR:HE2	8:JM:413:MET:HE3	1.52	0.75
17:O8:54:SER:HB2	27:P3:157:LEU:H	1.50	0.75
9:OH:313:VAL:HB	9:OH:349:VAL:HG22	1.67	0.75
8:VK:271:THR:HB	8:VK:377:MET:HB3	1.68	0.75
9:WD:217:LEU:HB3	9:WD:220:PRO:HD3	1.69	0.75
41:b2:139:ARG:HE	41:b2:263:SER:HB2	1.52	0.75
47:p:296:LYS:HB3	47:p:300:ARG:HH21	1.50	0.75
8:AC:203:MET:H	8:AC:203:MET:HE3	1.52	0.74
8:CE:220:GLU:HG2	8:CE:221:ARG:HG3	1.67	0.74
8:DC:276:ILE:HD12	8:DC:280:LYS:HB3	1.69	0.74
8:FM:7:ILE:HD13	8:FM:137:ILE:HG12	1.68	0.74
9:FN:322:SER:HB2	17:Z5:232:MET:HE1	1.69	0.74
8:JE:211:ASP:HB3	8:JE:215:ARG:HH21	1.52	0.74
8:JI:258:ASN:HD22	8:JI:352:LYS:HE3	1.52	0.74
9:KL:363:MET:HE3	9:KL:364:SER:H	1.52	0.74
28:Q1:169:LEU:HD12	12:S6:374:GLN:HE21	1.51	0.74
8:SE:398:MET:HE1	8:SE:404:PHE:HD2	1.52	0.74
30:V8:273:THR:HB	4:j1:192:LYS:HZ3	1.52	0.74
8:VE:136:LEU:HB2	8:VE:169:PHE:HE1	1.52	0.74
9:DB:323:MET:HA	9:DB:326:VAL:HB	1.69	0.74
8:GE:2:ARG:NH1	8:GE:242:LEU:O	2.17	0.74
9:HP:173:PRO:HG3	9:HP:380:ARG:HD2	1.69	0.74
8:IE:254:GLU:HG2	9:IF:98:GLY:HA2	1.69	0.74
9:NL:317:PHE:HB3	9:NL:321:MET:HE1	1.70	0.74
8:RC:317:MET:HE1	8:RC:375:VAL:HG23	1.69	0.74
9:TB:324:LYS:HG3	8:TC:222:PRO:HD2	1.68	0.74
9:UL:164:MET:HE1	9:UL:196:THR:HA	1.69	0.74
30:V7:263:ILE:HD11	30:W0:175:ARG:HH22	1.52	0.74
9:VF:276:ARG:HH21	39:a:236:ARG:HD2	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:a2:118:THR:HG23	40:a2:120:PHE:H	1.51	0.74
1:7:37:SER:HB2	8:JC:290:GLU:HG2	1.69	0.74
8:GG:8:HIS:CE1	8:GG:21:TRP:HE1	2.05	0.74
9:IP:279:GLN:OE1	9:IP:282:ARG:NH2	2.19	0.74
12:S6:131:LYS:HG3	12:S7:430:THR:HG23	1.69	0.74
9:VF:322:SER:HB3	8:VG:221:ARG:HD2	1.68	0.74
8:WO:254:GLU:HG2	9:WP:98:GLY:HA2	1.68	0.74
44:h3:96:LEU:HD22	44:h3:102:ARG:HH12	1.53	0.74
8:DM:324:VAL:HG12	8:DM:326:LYS:H	1.51	0.74
9:EH:49:VAL:HG11	9:EH:241:ARG:HG2	1.69	0.74
8:HA:133:GLN:HE21	8:HA:252:LEU:HB3	1.52	0.74
8:JK:36:MET:HE3	8:JK:37:PRO:HD2	1.70	0.74
9:JP:218:THR:HG23	9:JP:219:THR:HG23	1.68	0.74
9:NL:256:ASN:HD21	8:NM:181:VAL:H	1.34	0.74
25:O5:249:TRP:O	40:a4:159:ARG:NH2	2.21	0.74
27:P6:177:PRO:HG2	27:P6:180:GLN:HB3	1.69	0.74
30:U5:277:ILE:HG21	30:U6:391:MET:HE1	1.68	0.74
30:U8:395:MET:HB3	30:U8:416:LEU:HD11	1.69	0.74
8:VI:26:LEU:HD21	8:VI:363:VAL:HG12	1.68	0.74
8:WG:317:MET:HB2	8:WG:353:VAL:HA	1.68	0.74
8:WI:339:ARG:O	8:WI:339:ARG:NE	2.19	0.74
36:Y4:190:VAL:HG13	36:Y4:194:LYS:HZ3	1.52	0.74
8:DQ:119:LEU:HD11	8:DQ:156:ARG:HG2	1.68	0.74
8:FM:88:HIS:HD2	8:FM:90:GLU:H	1.36	0.74
9:GB:256:ASN:HD21	8:GC:181:VAL:HB	1.52	0.74
8:HG:276:ILE:HD11	8:HG:280:LYS:HB2	1.68	0.74
8:II:311:LYS:H	8:II:382:THR:HG22	1.52	0.74
8:IK:321:GLY:HA2	8:IK:359:PRO:HD3	1.69	0.74
9:OL:332:ASN:ND2	36:Y5:233:ALA:O	2.21	0.74
27:P6:163:ARG:HH22	30:U3:316:ARG:HD2	1.52	0.74
8:VG:217:LEU:HG	8:VG:219:ILE:HG12	1.69	0.74
9:AF:309:ARG:HG3	9:AF:426:GLN:HG3	1.69	0.74
8:FE:107:HIS:HA	8:FE:152:LEU:HD11	1.69	0.74
9:KP:67:ASP:HB3	9:KP:73:MET:HE1	1.70	0.74
9:LL:372:THR:HG21	9:LL:426:GLN:HB2	1.69	0.74
11:R4:409:ASP:O	11:R4:410:THR:C	2.30	0.74
12:S9:167:MET:HE1	12:S9:314:GLU:HB2	1.68	0.74
9:SH:69:GLU:HG2	9:SH:71:GLY:H	1.51	0.74
8:VM:292:THR:HG21	8:VM:331:ALA:HB1	1.70	0.74
39:c:372:LEU:O	39:c:372:LEU:HD23	1.87	0.74
9:AB:346:PRO:HD2	8:AC:398:MET:HE3	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AM:199:ASP:HB3	8:AM:256:GLN:HE21	1.51	0.74
9:EF:323:MET:H	9:EF:323:MET:HE2	1.52	0.74
8:KE:292:THR:HG21	8:KE:331:ALA:HB1	1.68	0.74
8:LA:7:ILE:HD13	8:LA:137:ILE:HG13	1.70	0.74
8:LG:51:THR:HG21	8:LG:243:ARG:HG2	1.68	0.74
9:QN:267:MET:HE3	9:QN:299:MET:HG2	1.69	0.74
34:X8:14:LEU:HD22	34:X8:27:LYS:HE2	1.70	0.74
35:XG:164:ARG:NH2	35:XG:180:GLU:O	2.20	0.74
9:IB:372:THR:HA	9:IB:422:TYR:HE1	1.51	0.74
9:IJ:359:ARG:HD3	9:IJ:359:ARG:H	1.52	0.74
9:IL:362:LYS:HB3	9:IL:363:MET:HE2	1.70	0.74
9:KH:173:PRO:HG3	9:KH:380:ARG:HD2	1.70	0.74
8:NC:31:GLN:HE21	8:NC:33:ASP:HB3	1.52	0.74
9:NJ:101:TRP:CD1	9:NJ:146:GLY:HA2	2.22	0.74
14:T3:162:ARG:HH21	14:T3:168:VAL:H	1.36	0.74
9:VB:290:THR:HG21	9:VB:329:GLN:HB3	1.69	0.74
9:VF:77:ARG:NH2	43:i:212:GLN:O	2.21	0.74
31:W:350:LYS:HZ3	40:a1:56:LEU:HD13	1.52	0.74
8:WI:292:THR:HG21	8:WI:331:ALA:HB1	1.69	0.74
9:HJ:330:MET:HE3	9:HJ:349:VAL:HB	1.68	0.74
28:Q2:24:ASP:HB2	12:S7:435:GLN:HE22	1.51	0.74
14:T1:159:ARG:HE	14:T1:162:ARG:HE	1.36	0.74
9:WP:193:VAL:O	9:WP:262:ARG:NH2	2.21	0.74
46:i3:1419:ARG:NH2	45:m:39:THR:OG1	2.20	0.74
7:A1:370:LEU:HD21	12:C1:490:CYS:HB2	1.70	0.74
8:AO:284:GLU:OE1	8:MO:88:HIS:NE2	2.16	0.74
11:B3:46:ARG:HH12	11:B4:299:ARG:HE	1.36	0.74
9:ID:242:PHE:HB3	9:ID:356:ILE:HD13	1.68	0.74
9:IJ:48:ASN:ND2	13:K3:265:CYS:SG	2.61	0.74
9:JF:156:ARG:HH11	9:JF:164:MET:HE3	1.53	0.74
27:P3:138:PRO:HD2	27:P3:148:LYS:NZ	2.03	0.74
9:QH:322:SER:OG	8:QI:222:PRO:O	2.06	0.74
9:QL:331:LEU:HD13	8:QM:176:GLN:HE21	1.52	0.74
9:QP:271:ALA:HA	9:QP:293:MET:HE1	1.70	0.74
9:VL:257:MET:HE2	9:VL:314:ALA:HB2	1.69	0.74
9:WF:249:ASP:H	9:WF:252:LYS:HB2	1.52	0.74
34:X6:43:VAL:HB	34:X6:86:LEU:HB3	1.70	0.74
42:g:260:LYS:HE3	42:g:301:GLU:HB3	1.69	0.74
12:C1:323:GLU:OE1	11:R1:252:ASN:ND2	2.21	0.73
9:DF:330:MET:HE2	9:DF:349:VAL:HG21	1.69	0.73
8:EI:107:HIS:HA	8:EI:152:LEU:HD11	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HN:248:ALA:HA	9:HN:252:LYS:HG3	1.70	0.73
9:IL:119:VAL:HA	9:IL:122:LYS:HD3	1.70	0.73
19:J4:83:PHE:HB2	8:OK:370:LYS:HG3	1.70	0.73
9:KH:15:GLN:OE1	9:KH:226:ASN:ND2	2.20	0.73
9:QH:346:PRO:HD2	8:QI:398:MET:HE1	1.69	0.73
9:SJ:167:PHE:CZ	9:SJ:233:MET:HB2	2.23	0.73
14:T3:242:PRO:O	14:T3:243:HIS:ND1	2.21	0.73
8:TG:79:ARG:HH22	8:TG:94:THR:HG23	1.52	0.73
35:XH:34:ILE:HD12	35:XH:49:ILE:HG22	1.70	0.73
41:b4:144:GLN:NE2	41:b4:235:ASP:OD1	2.21	0.73
9:AB:174:LYS:HZ2	9:AB:380:ARG:HH12	1.33	0.73
9:BH:61:PRO:HD3	9:BH:84:ILE:HG22	1.70	0.73
9:ED:267:MET:HE2	9:ED:299:MET:HG3	1.71	0.73
9:LN:31:ASP:OD1	9:LN:34:GLY:N	2.18	0.73
9:MD:347:ASN:ND2	8:ME:180:ALA:O	2.21	0.73
28:Q1:110:THR:O	28:Q1:114:ARG:NH1	2.20	0.73
8:QM:23:LEU:HD12	8:QM:26:LEU:HD11	1.70	0.73
8:UE:282:TYR:CB	39:c:373:ARG:NH2	2.40	0.73
9:VJ:324:LYS:HG3	8:VK:222:PRO:HD2	1.69	0.73
9:CN:372:THR:HA	9:CN:422:TYR:HE1	1.53	0.73
8:CO:114:ILE:HA	8:CO:117:LEU:HD23	1.68	0.73
8:GE:298:PRO:HA	8:GE:301:GLN:HG2	1.69	0.73
9:IH:347:ASN:ND2	8:II:178:SER:OG	2.22	0.73
9:IJ:69:GLU:HG2	9:IJ:71:GLY:H	1.51	0.73
8:IK:239:THR:HB	8:IK:243:ARG:HH11	1.51	0.73
9:KL:299:MET:N	9:KL:299:MET:SD	2.61	0.73
8:QI:154:MET:HE2	8:QI:197:HIS:HB3	1.70	0.73
9:RL:309:ARG:H	9:RL:372:THR:HB	1.53	0.73
12:S1:87:ARG:NH1	12:S7:253:GLU:OE1	2.19	0.73
31:X:492:GLU:HG2	31:X:495:LYS:HD3	1.71	0.73
43:j:189:SER:HB3	43:j:192:GLU:HB3	1.69	0.73
8:DQ:66:VAL:HG21	8:DQ:122:ILE:HG22	1.69	0.73
9:GD:52:ASN:OD1	9:GD:62:ARG:NH1	2.21	0.73
9:HD:2:ARG:HH22	8:HE:71:GLU:HA	1.53	0.73
8:IG:352:LYS:HZ1	9:IH:179:VAL:N	1.85	0.73
8:JO:70:LEU:HB3	8:JO:98:ASP:HA	1.69	0.73
9:KH:192:LEU:HD21	9:KH:199:THR:HG21	1.70	0.73
9:ML:257:MET:HE3	9:ML:314:ALA:HB2	1.70	0.73
9:OB:324:LYS:HG3	8:OC:222:PRO:HD2	1.69	0.73
8:OG:154:MET:HA	8:OG:157:LEU:HB2	1.69	0.73
27:P3:171:ARG:NH2	11:R1:20:ASN:O	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QF:267:MET:HE2	9:QF:299:MET:SD	2.28	0.73
11:R0:316:THR:HA	11:R1:202:LYS:HE2	1.69	0.73
12:S8:293:THR:HG21	12:S9:413:ARG:HD3	1.70	0.73
14:T4:100:THR:HG22	14:T5:356:ARG:HH22	1.53	0.73
8:TC:370:LYS:H	47:o:165:GLN:HE22	1.35	0.73
41:b3:362:HIS:HA	41:b3:365:MET:HE1	1.70	0.73
42:f:228:ASP:HB2	42:f:243:GLY:HA3	1.71	0.73
42:g:373:PRO:HB2	48:s:135:LYS:HE2	1.69	0.73
8:EK:211:ASP:HB3	8:EK:215:ARG:HH21	1.52	0.73
9:KL:323:MET:HA	9:KL:326:VAL:HG12	1.68	0.73
8:OM:50:ASN:O	8:OM:64:ARG:NH1	2.21	0.73
9:RH:198:GLU:HA	9:RH:264:HIS:HB2	1.71	0.73
9:TF:69:GLU:HG2	9:TF:71:GLY:H	1.53	0.73
8:UC:28:HIS:CD2	8:UC:49:PHE:HB3	2.24	0.73
8:UE:292:THR:HG21	8:UE:331:ALA:HB1	1.70	0.73
37:YG:84:ILE:HD11	37:YG:118:MET:HA	1.70	0.73
39:a:191:LEU:HD13	39:a:194:MET:SD	2.28	0.73
8:AE:104:ALA:HB2	8:AE:413:MET:HE2	1.70	0.73
9:AP:372:THR:HA	9:AP:422:TYR:HE1	1.54	0.73
11:B2:152:GLN:NE2	14:D2:429:LYS:HE3	2.04	0.73
9:CB:372:THR:HA	9:CB:422:TYR:HE1	1.52	0.73
8:FI:172:TYR:HB2	8:FI:203:MET:HB3	1.70	0.73
9:HB:302:ALA:O	9:HB:380:ARG:NH2	2.22	0.73
8:HC:328:VAL:HG11	8:HC:353:VAL:HG21	1.71	0.73
8:NM:402:ARG:HG3	8:NM:405:VAL:HG11	1.70	0.73
27:P5:175:LEU:HA	17:P8:42:LEU:HD21	1.68	0.73
9:QF:182:PRO:HB2	9:QF:388:MET:HE1	1.68	0.73
9:TB:284:LEU:HD21	9:TB:363:MET:HG2	1.70	0.73
30:V4:100:ASP:HB3	30:V4:104:ARG:HH21	1.53	0.73
9:WH:284:LEU:HD22	9:WH:363:MET:HE2	1.70	0.73
9:AB:377:LEU:HA	9:AB:380:ARG:HE	1.52	0.73
9:AD:372:THR:HA	9:AD:422:TYR:HE1	1.53	0.73
9:BF:276:ARG:O	25:U:116:ARG:NH2	2.21	0.73
8:EA:139:HIS:NE2	8:EA:168:GLU:OE2	2.20	0.73
9:FJ:136:THR:HG22	9:FJ:167:PHE:HB2	1.71	0.73
9:IB:242:PHE:HB3	9:IB:356:ILE:HD13	1.71	0.73
9:JN:63:ALA:O	9:JN:89:ASN:ND2	2.17	0.73
9:JN:101:TRP:HZ3	9:JN:403:MET:HE1	1.54	0.73
8:KO:388:TRP:HB3	8:KO:425:LEU:HD11	1.71	0.73
8:LA:278:ALA:H	29:R:170:ARG:HH22	1.37	0.73
25:O5:159:MET:SD	25:O5:159:MET:N	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R0:249:GLN:N	11:R0:249:GLN:NE2	2.35	0.73
9:RL:256:ASN:HD21	8:RM:181:VAL:H	1.36	0.73
9:SF:69:GLU:HG2	9:SF:71:GLY:H	1.54	0.73
9:TB:376:GLU:HG2	9:TB:380:ARG:HH12	1.53	0.73
9:TH:57:GLY:H	39:c:283:LYS:HE3	1.53	0.73
30:U1:93:ARG:HH12	30:U1:97:ARG:HG2	1.54	0.73
8:VE:269:LEU:HD22	8:VE:303:VAL:HG21	1.68	0.73
3:3:29:LYS:HD2	3:3:29:LYS:H	1.51	0.73
7:A1:380:GLU:OE2	12:C1:472:LYS:NZ	2.22	0.73
15:F:116:ALA:HB3	15:F:247:MET:HB3	1.68	0.73
8:GE:1:MET:HE3	8:GE:50:ASN:HB3	1.70	0.73
9:IN:236:VAL:HG23	9:IN:237:THR:HG23	1.69	0.73
9:JF:198:GLU:HA	9:JF:264:HIS:HB2	1.71	0.73
8:JG:265:ILE:HG12	8:JG:432:TYR:HE2	1.54	0.73
9:KH:267:MET:HE2	9:KH:299:MET:HG3	1.69	0.73
8:KI:123:ARG:NH1	8:KI:161:TYR:OH	2.22	0.73
9:EL:358:PRO:HG2	9:EL:361:LEU:HB3	1.71	0.73
8:FE:346:TRP:HB3	9:FF:390:ARG:HH12	1.53	0.73
8:HA:107:HIS:HB3	8:HA:108:TYR:CE2	2.23	0.73
8:JI:338:LYS:HE2	8:JI:338:LYS:HA	1.70	0.73
17:O9:175:ASN:ND2	30:W5:49:ASN:OD1	2.21	0.73
8:PC:209:ILE:HG21	8:PC:227:LEU:HG	1.70	0.73
8:PG:7:ILE:HD12	8:PG:137:ILE:HG12	1.71	0.73
8:QM:292:THR:HG21	8:QM:331:ALA:HB1	1.70	0.73
8:SM:236:SER:HA	8:SM:243:ARG:HH22	1.53	0.73
9:TB:69:GLU:HG2	9:TB:71:GLY:H	1.54	0.73
30:V0:393:GLN:HE22	30:V0:420:VAL:HG22	1.53	0.73
9:VL:403:MET:H	9:VL:403:MET:HE3	1.52	0.73
8:WG:271:THR:HB	8:WG:377:MET:HB3	1.71	0.73
8:WG:292:THR:HG21	8:WG:331:ALA:HB1	1.70	0.73
41:b4:393:LEU:HD21	41:b5:115:ARG:NH2	2.04	0.73
46:i3:1336:ILE:HG12	46:i3:1400:ILE:HG23	1.71	0.73
47:p:181:GLU:HA	47:p:184:LYS:HD2	1.70	0.73
8:DC:85:GLN:O	8:EA:282:TYR:OH	2.07	0.73
8:HM:79:ARG:NH2	8:HM:94:THR:OG1	2.21	0.73
9:MF:132:GLY:HA3	9:MF:163:ILE:HG22	1.71	0.73
9:PF:73:MET:HE3	9:PF:92:PHE:HB3	1.70	0.73
8:RE:215:ARG:HB2	8:RE:215:ARG:HH11	1.53	0.73
8:TM:317:MET:HB3	8:TM:353:VAL:HA	1.71	0.73
8:VA:326:LYS:HD2	9:VB:220:PRO:HD2	1.69	0.73
9:WD:322:SER:HB3	8:WE:221:ARG:HG3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Y1:33:PRO:HB3	36:Y1:40:LYS:HE3	1.71	0.73
8:FI:2:ARG:HH22	9:FJ:71:GLY:HA3	1.53	0.72
9:FJ:207:LEU:HB3	9:FJ:225:LEU:HD23	1.69	0.72
8:FK:254:GLU:HG2	9:FL:98:GLY:HA2	1.69	0.72
8:GC:254:GLU:HG2	9:GD:98:GLY:HA2	1.69	0.72
9:LF:253:LEU:O	9:LF:257:MET:HB2	1.88	0.72
23:P:165:GLU:HG2	23:P:169:GLN:NE2	2.04	0.72
12:S3:393:LEU:HB2	12:S3:427:VAL:HG11	1.70	0.72
8:TK:203:MET:N	8:TK:203:MET:SD	2.62	0.72
9:UD:147:MET:N	9:UD:147:MET:SD	2.62	0.72
8:UM:90:GLU:OE1	8:UM:121:ARG:NH1	2.22	0.72
9:UN:156:ARG:NH1	9:UN:164:MET:SD	2.62	0.72
31:W:441:ILE:HD11	31:W:521:ILE:HG23	1.69	0.72
41:b4:393:LEU:CD2	41:b5:115:ARG:NH2	2.52	0.72
46:i2:1340:TRP:HD1	46:i2:1341:ARG:HG2	1.53	0.72
9:BL:372:THR:HA	9:BL:422:TYR:HE1	1.52	0.72
9:DB:346:PRO:HD2	8:DC:398:MET:HE2	1.69	0.72
9:HN:173:PRO:HG2	9:HN:174:LYS:HD3	1.69	0.72
9:IF:38:GLY:HA3	9:IF:43:GLN:HE22	1.52	0.72
8:IG:352:LYS:NZ	9:IH:179:VAL:HG13	2.04	0.72
8:LC:214:ARG:NH1	8:LC:214:ARG:O	2.21	0.72
9:LF:390:ARG:HD3	44:h2:42:LEU:HD22	1.69	0.72
8:QC:292:THR:HG21	8:QC:331:ALA:HB1	1.71	0.72
9:QL:207:LEU:HD22	9:QL:225:LEU:HG	1.71	0.72
12:S1:71:ARG:NH2	12:S2:231:GLU:OE2	2.22	0.72
25:T:264:ILE:HG23	25:T:275:ILE:HG12	1.71	0.72
14:T0:71:ARG:NH2	14:T1:324:LYS:HB3	2.04	0.72
8:TM:152:LEU:HB2	8:TM:156:ARG:HH21	1.54	0.72
9:UH:143:THR:HG22	9:UH:147:MET:HE2	1.70	0.72
9:UJ:68:LEU:HD21	9:UJ:108:GLU:HG3	1.70	0.72
8:UK:292:THR:HG21	8:UK:331:ALA:HB1	1.71	0.72
9:UN:269:GLY:HA3	9:UN:367:PHE:HB3	1.69	0.72
9:VD:245:GLN:HE21	9:VD:353:VAL:HB	1.54	0.72
9:VH:204:ASN:HA	9:VH:207:LEU:HD23	1.71	0.72
3:3:29:LYS:HB3	9:NL:78:SER:HA	1.69	0.72
9:BD:2:ARG:HH21	8:BE:72:PRO:HD2	1.53	0.72
8:BE:252:LEU:HA	8:BE:255:PHE:CE1	2.23	0.72
8:CI:2:ARG:HB3	8:CI:242:LEU:HD23	1.71	0.72
13:D:395:GLU:OE2	13:D:395:GLU:N	2.21	0.72
8:DC:271:THR:HB	8:DC:377:MET:HB3	1.71	0.72
9:FF:256:ASN:HD21	8:FG:181:VAL:H	1.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KI:120:ASP:OD1	8:KI:124:LYS:NZ	2.21	0.72
9:SB:345:ILE:HA	8:SC:398:MET:HE1	1.71	0.72
14:T3:224:ILE:HD11	14:T4:363:ARG:HG3	1.71	0.72
9:UJ:356:ILE:HD12	9:UJ:357:PRO:HD2	1.72	0.72
9:VL:372:THR:HA	9:VL:422:TYR:HE1	1.54	0.72
9:WP:372:THR:HA	9:WP:422:TYR:HE1	1.54	0.72
35:XF:164:ARG:NH2	35:XF:180:GLU:O	2.22	0.72
41:b1:378:ILE:O	41:b2:115:ARG:NH2	2.22	0.72
44:h3:43:PRO:HB3	44:h3:95:ARG:HD2	1.72	0.72
11:B5:109:PRO:HA	11:B5:112:VAL:HG12	1.71	0.72
12:C1:83:PHE:CE2	12:C2:200:PHE:HB2	2.24	0.72
8:DC:425:LEU:HA	8:DC:428:LEU:HB2	1.70	0.72
9:DP:133:PHE:HB2	9:DP:164:MET:HE1	1.71	0.72
8:EA:353:VAL:HG22	9:EB:177:ASP:HB2	1.71	0.72
8:EI:203:MET:SD	8:EI:203:MET:N	2.53	0.72
9:JD:350:LYS:HD2	8:JE:180:ALA:HA	1.72	0.72
9:MH:417:ASP:OD1	46:i3:1456:ARG:NH1	2.22	0.72
9:PF:86:ARG:HD3	9:PF:88:ASP:H	1.54	0.72
9:PF:86:ARG:HH21	9:QF:281:TYR:HD1	1.36	0.72
12:S0:121:ARG:NH2	12:S1:374:GLN:O	2.22	0.72
14:T4:311:LEU:HD23	14:T4:423:LEU:HG	1.70	0.72
35:XC:164:ARG:NH2	35:XC:180:GLU:O	2.22	0.72
4:6:63:ARG:NH2	9:IL:73:MET:SD	2.62	0.72
8:CK:292:THR:HG21	8:CK:331:ALA:HB1	1.70	0.72
8:HK:70:LEU:HD12	8:HK:95:GLY:HA3	1.70	0.72
9:IL:238:THR:OG1	9:IL:318:ARG:NH1	2.23	0.72
9:JB:319:GLY:HA2	9:JB:357:PRO:HD3	1.69	0.72
9:JH:299:MET:HE3	9:JH:300:MET:H	1.52	0.72
8:LA:285:GLN:HE22	8:LA:287:SER:HB3	1.53	0.72
9:MD:238:THR:HG21	9:MD:318:ARG:HD3	1.70	0.72
8:OI:3:GLU:OE2	8:OI:64:ARG:NH1	2.23	0.72
9:TN:269:GLY:HA2	9:TN:300:MET:HE3	1.71	0.72
9:TN:293:MET:HE2	9:TN:367:PHE:HB3	1.71	0.72
8:VA:264:ARG:HH12	8:VA:428:LEU:HA	1.55	0.72
9:VH:213:ARG:HE	9:VH:297:LYS:HE3	1.54	0.72
41:b4:198:LEU:HD21	41:b4:332:VAL:HA	1.72	0.72
1:7:183:CYS:SG	1:7:184:ARG:N	2.61	0.72
11:B3:60:ASN:ND2	11:B4:341:GLU:OE1	2.23	0.72
9:CB:48:ASN:O	9:CB:62:ARG:NH2	2.22	0.72
8:FA:349:THR:OG1	9:FB:181:GLU:OE1	2.05	0.72
9:GJ:163:ILE:HG21	9:GJ:250:LEU:HD21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KI:298:PRO:HG3	8:KI:308:ARG:HH12	1.54	0.72
8:MK:254:GLU:HG2	9:ML:98:GLY:HA2	1.71	0.72
9:QH:305:PRO:HB2	9:QH:310:TYR:HE1	1.55	0.72
9:QP:134:GLN:OE1	9:QP:165:ASN:HB2	1.89	0.72
25:V:409:VAL:HA	25:V:412:MET:HG2	1.70	0.72
8:VE:84:ARG:HH22	42:e:500:LEU:HD13	1.55	0.72
30:W0:329:SER:HA	30:W0:332:MET:HE2	1.70	0.72
31:X:433:ILE:HD11	31:X:455:ALA:HB1	1.70	0.72
8:CK:79:ARG:NH1	40:a3:107:GLY:O	2.20	0.72
8:EI:282:TYR:CE2	8:EI:283:HIS:HE1	2.07	0.72
9:GD:83:GLN:O	9:HD:281:TYR:OH	2.08	0.72
9:IJ:86:ARG:HG2	9:IJ:89:ASN:H	1.55	0.72
9:IJ:372:THR:HA	9:IJ:422:TYR:HE1	1.53	0.72
8:PE:139:HIS:ND1	8:PE:146:GLY:O	2.23	0.72
8:QE:36:MET:HE3	8:QE:37:PRO:HD2	1.72	0.72
9:QN:242:PHE:CD2	9:QN:356:ILE:HB	2.24	0.72
8:TC:152:LEU:HB2	8:TC:156:ARG:HH21	1.54	0.72
25:V:516:MET:HE1	25:V:531:ILE:HG13	1.69	0.72
35:XF:129:TRP:HB3	35:XF:183:LEU:HD21	1.72	0.72
40:a2:13:ILE:HG13	40:a2:35:MET:HE3	1.71	0.72
9:AP:155:ILE:HG13	9:AP:164:MET:HE1	1.70	0.72
16:G:84:GLN:OE1	8:GK:2:ARG:NH2	2.23	0.72
9:HN:372:THR:HA	9:HN:422:TYR:HE1	1.54	0.72
9:IB:48:ASN:O	9:IB:62:ARG:NH2	2.23	0.72
8:JQ:311:LYS:HA	8:JQ:342:GLN:HE21	1.55	0.72
9:LJ:131:GLN:NE2	9:LJ:249:ASP:OD2	2.22	0.72
8:NM:53:PHE:CD2	8:NM:61:HIS:HD2	2.06	0.72
17:P9:185:GLU:HG2	30:W7:33:VAL:HG22	1.72	0.72
9:QH:251:ARG:HD2	9:QH:255:VAL:HG23	1.69	0.72
11:R4:23:LEU:O	11:R4:26:THR:OG1	2.07	0.72
8:SK:271:THR:HA	8:SK:302:MET:HE1	1.71	0.72
9:BF:341:PHE:HB3	9:BF:348:ASN:HD21	1.53	0.72
9:BL:101:TRP:HB2	9:BL:184:ASN:HD22	1.55	0.72
9:BN:58:LYS:NZ	9:CN:280:GLN:OE1	2.23	0.72
8:DC:154:MET:HE1	8:DC:166:LYS:HD2	1.72	0.72
8:DM:170:ALA:HB3	8:DM:203:MET:HE1	1.70	0.72
8:FG:254:GLU:HG2	9:FH:98:GLY:HA2	1.71	0.72
8:HM:203:MET:N	8:HM:203:MET:SD	2.62	0.72
8:HO:71:GLU:HG3	8:HO:98:ASP:HB2	1.70	0.72
9:ID:293:MET:HE2	9:ID:367:PHE:HB2	1.72	0.72
9:IJ:65:LEU:HD11	9:IJ:85:PHE:HD1	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IO:226:ASN:ND2	8:IO:367:ASP:OD2	2.23	0.72
9:JD:325:GLU:H	8:JE:221:ARG:HH12	1.38	0.72
8:KE:254:GLU:HG2	9:KF:98:GLY:HA2	1.70	0.72
9:ML:279:GLN:OE1	23:P:70:HIS:NE2	2.20	0.72
8:NG:113:GLU:HB2	8:NG:114:ILE:HD12	1.70	0.72
9:NL:8:GLN:HG2	9:NL:14:ASN:HA	1.70	0.72
9:NL:372:THR:HA	9:NL:422:TYR:HE1	1.55	0.72
9:PD:335:ASN:HB2	9:PD:336:LYS:HZ2	1.55	0.72
8:QE:292:THR:HG21	8:QE:331:ALA:HB1	1.72	0.72
12:S0:71:ARG:HH22	12:S1:227:LEU:HB3	1.54	0.72
8:SC:17:GLY:O	8:SC:21:TRP:HD1	1.73	0.72
9:VJ:230:SER:HA	9:VJ:233:MET:HE1	1.72	0.72
9:VL:362:LYS:HE2	39:b:388:ALA:HA	1.70	0.72
30:W2:153:LYS:HG3	30:W2:254:ILE:HD11	1.72	0.72
39:a:195:SER:C	39:a:197:ILE:H	1.97	0.72
8:AM:328:VAL:HG21	8:AM:355:ILE:HD11	1.72	0.72
9:EH:372:THR:HA	9:EH:422:TYR:HE1	1.53	0.72
8:HO:326:LYS:NZ	9:HP:218:THR:O	2.23	0.72
9:KB:282:ARG:HH22	9:KB:288:GLU:HB3	1.55	0.72
9:MD:383:GLU:HB3	45:l:35:HIS:CE1	2.22	0.72
8:QC:269:LEU:HD22	8:QC:303:VAL:HG11	1.72	0.72
9:QF:321:MET:HE1	9:QF:363:MET:HE3	1.70	0.72
9:QH:317:PHE:HB2	9:QH:353:VAL:HG22	1.71	0.72
9:RF:256:ASN:HD21	8:RG:181:VAL:H	1.36	0.72
31:Y:58:SER:HB3	31:Y:148:THR:HB	1.72	0.72
9:AL:48:ASN:HD22	17:M:224:PHE:HB2	1.55	0.71
9:DF:293:MET:HE3	9:DF:367:PHE:HB3	1.70	0.71
9:IH:111:GLU:OE1	34:X6:68:ARG:HB2	1.90	0.71
19:J3:222:GLN:OE1	19:J3:225:LYS:NZ	2.20	0.71
8:NK:79:ARG:HH22	8:NK:94:THR:HG21	1.55	0.71
8:NK:217:LEU:HG	8:NK:219:ILE:HD11	1.69	0.71
8:RE:318:LEU:HB2	8:RE:376:CYS:HB3	1.72	0.71
12:S5:201:HIS:HA	12:S5:204:LYS:NZ	2.04	0.71
8:SC:318:LEU:HB2	8:SC:376:CYS:HB3	1.70	0.71
8:SE:319:TYR:HE2	8:SE:353:VAL:HG13	1.55	0.71
30:U1:131:ILE:HA	30:U1:134:MET:HG2	1.72	0.71
8:VA:277:SER:H	8:VA:280:LYS:HE3	1.54	0.71
9:VN:345:ILE:HA	8:VO:398:MET:HE1	1.69	0.71
30:W0:300:SER:O	30:W0:304:ILE:HG13	1.89	0.71
9:WF:403:MET:N	9:WF:403:MET:SD	2.60	0.71
39:a6:110:GLU:HA	39:a6:113:LYS:HB3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:429:LEU:HD21	9:GN:276:ARG:HD2	1.71	0.71
14:D2:175:GLU:HB3	14:D2:300:VAL:HG22	1.72	0.71
9:HJ:382:SER:O	9:HJ:386:THR:HG22	1.90	0.71
8:IA:136:LEU:HB2	8:IA:169:PHE:HE1	1.54	0.71
8:IC:139:HIS:O	8:IC:170:ALA:HA	1.91	0.71
9:IF:222:TYR:O	9:IF:226:ASN:ND2	2.23	0.71
8:IK:1:MET:SD	8:IK:2:ARG:N	2.62	0.71
8:LI:292:THR:HG21	8:LI:331:ALA:HB1	1.71	0.71
8:LK:292:THR:HG21	8:LK:331:ALA:HB1	1.71	0.71
9:ML:156:ARG:HE	9:ML:164:MET:HE2	1.54	0.71
8:NI:260:VAL:HB	9:NJ:397:TRP:CH2	2.24	0.71
8:OC:254:GLU:HG3	9:OD:98:GLY:HA2	1.72	0.71
9:VH:2:ARG:HH21	9:VH:46:ARG:HH12	1.37	0.71
9:WN:88:ASP:OD2	37:YG:197:TYR:HB3	1.90	0.71
40:a4:159:ARG:HG3	40:a4:159:ARG:O	1.90	0.71
42:f:566:ASP:HB3	42:f:568:LEU:HG	1.72	0.71
9:CJ:113:VAL:HG11	9:CJ:150:LEU:HD22	1.72	0.71
14:D0:49:ALA:HB3	12:S3:88:THR:H	1.54	0.71
9:GJ:346:PRO:HD3	8:GK:397:LEU:HD11	1.71	0.71
9:ID:63:ALA:HB3	9:ID:85:PHE:HE2	1.55	0.71
8:JG:362:VAL:HG11	8:JG:370:LYS:HG3	1.72	0.71
9:KB:385:PHE:HA	9:KB:388:MET:HE2	1.73	0.71
8:MI:47:ASP:OD2	8:MI:50:ASN:ND2	2.23	0.71
8:NK:203:MET:N	8:NK:203:MET:SD	2.61	0.71
8:QM:150:ALA:O	8:QM:154:MET:HG2	1.89	0.71
11:R4:413:ARG:HH21	11:R4:417:ARG:HH21	1.36	0.71
12:S0:71:ARG:HH12	12:S1:227:LEU:HD22	1.55	0.71
9:TN:69:GLU:HG2	9:TN:71:GLY:H	1.54	0.71
9:UD:324:LYS:HG3	8:UE:222:PRO:HD2	1.72	0.71
41:b3:139:ARG:HG3	41:b3:263:SER:HB2	1.71	0.71
42:g:486:ILE:HB	42:g:488:TRP:HE1	1.53	0.71
8:AE:151:SER:HA	8:AE:193:THR:HG21	1.71	0.71
8:AO:326:LYS:NZ	9:AP:218:THR:O	2.22	0.71
8:BI:292:THR:HG21	8:BI:331:ALA:HB1	1.73	0.71
8:GE:114:ILE:HA	8:GE:117:LEU:HD23	1.71	0.71
9:MD:205:GLU:OE1	45:l:14:TYR:OH	2.07	0.71
9:NF:8:GLN:HB3	9:NF:65:LEU:HA	1.72	0.71
9:OL:267:MET:HE1	9:OL:373:ALA:HB3	1.72	0.71
8:OO:413:MET:HE1	8:OO:417:GLU:HB2	1.73	0.71
9:PJ:1:MET:HE1	8:PK:96:LYS:HA	1.73	0.71
9:QB:164:MET:HE1	9:QB:196:THR:HA	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U1:393:GLN:HB3	30:U2:280:PHE:HB2	1.72	0.71
8:WC:317:MET:HE3	8:WC:351:PHE:HD1	1.56	0.71
9:WF:218:THR:OG1	43:i:228:GLN:NE2	2.23	0.71
9:WL:49:VAL:HG11	9:WL:241:ARG:HG2	1.72	0.71
9:WL:252:LYS:NZ	50:WM:501:GTP:O3G	2.23	0.71
41:b3:369:GLN:NE2	41:b3:370:GLU:OE2	2.23	0.71
9:AJ:372:THR:HG21	9:AJ:426:GLN:HB2	1.72	0.71
9:BL:184:ASN:ND2	9:BL:398:TYR:OH	2.23	0.71
8:CI:84:ARG:HD3	40:a2:10:LYS:HD2	1.73	0.71
9:CL:404:ASP:HB2	9:CL:406:MET:HE3	1.72	0.71
9:EJ:372:THR:HA	9:EJ:422:TYR:HE1	1.56	0.71
9:FJ:267:MET:HE3	9:FJ:301:ALA:HB3	1.73	0.71
8:GG:292:THR:HG21	8:GG:331:ALA:HB1	1.71	0.71
9:GN:156:ARG:HG3	9:GN:195:ASN:HB2	1.72	0.71
9:ID:318:ARG:HG2	9:ID:358:PRO:HD3	1.73	0.71
8:KM:338:LYS:HD3	8:KM:340:THR:H	1.54	0.71
9:ML:390:ARG:HH12	46:i4:1419:ARG:HH12	1.39	0.71
8:OA:211:ASP:OD2	8:OA:304:LYS:NZ	2.22	0.71
8:OC:65:ALA:O	8:OC:91:GLN:NE2	2.18	0.71
9:OH:164:MET:HE1	9:OH:166:THR:HB	1.72	0.71
9:PL:286:VAL:HG21	9:PL:321:MET:HE2	1.71	0.71
28:Q1:22:PHE:HZ	12:S4:438:LEU:HD22	1.56	0.71
9:RD:324:LYS:HG3	8:RE:222:PRO:HD2	1.72	0.71
9:RJ:252:LYS:NZ	50:RK:501:GTP:O3G	2.22	0.71
8:SA:30:ILE:HG13	8:SA:36:MET:HE1	1.72	0.71
8:SM:388:TRP:HB3	8:SM:425:LEU:HD11	1.71	0.71
25:V:317:ASP:HA	25:V:320:VAL:HG22	1.72	0.71
30:V5:477:PRO:HB3	30:V5:482:LEU:HD23	1.72	0.71
9:VL:237:THR:HA	9:VL:240:LEU:HD13	1.71	0.71
9:WB:372:THR:HA	9:WB:422:TYR:HE1	1.55	0.71
8:WK:254:GLU:HG2	9:WL:98:GLY:HA2	1.72	0.71
9:AD:346:PRO:HD3	8:AE:397:LEU:HD11	1.73	0.71
9:AN:256:ASN:HD21	8:AO:181:VAL:H	1.38	0.71
9:BJ:173:PRO:HB3	9:BJ:380:ARG:HD3	1.72	0.71
8:CM:50:ASN:O	8:CM:64:ARG:NH1	2.23	0.71
8:EE:40:LYS:HE3	31:X:453:VAL:HG23	1.73	0.71
8:GM:7:ILE:HD12	8:GM:137:ILE:HG12	1.71	0.71
8:HC:90:GLU:OE2	8:IC:280:LYS:NZ	2.21	0.71
8:HI:338:LYS:HZ2	8:HI:340:THR:H	1.38	0.71
8:II:139:HIS:O	8:II:170:ALA:HA	1.90	0.71
9:IN:215:LEU:HD21	9:IN:273:LEU:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MO:50:ASN:O	8:MO:64:ARG:NH1	2.23	0.71
9:OD:295:ASP:HB3	9:OD:298:ASN:HB2	1.73	0.71
9:OJ:1:MET:HE1	8:OK:96:LYS:HA	1.71	0.71
9:QB:372:THR:HA	9:QB:422:TYR:HE1	1.56	0.71
9:QJ:198:GLU:HA	9:QJ:264:HIS:HB2	1.71	0.71
11:R2:107:ASN:ND2	14:T3:163:GLN:OE1	2.22	0.71
11:R4:403:LYS:HZ1	11:R4:405:VAL:HG12	1.56	0.71
9:VB:147:MET:H	9:VB:147:MET:HE3	1.56	0.71
31:W:488:LYS:HD3	31:W:500:GLU:HB2	1.73	0.71
30:W0:211:VAL:HG22	30:W0:342:ALA:HB1	1.72	0.71
8:WA:104:ALA:HA	8:WA:413:MET:HE1	1.72	0.71
31:Y:586:LEU:HD22	31:Y:594:LEU:HD22	1.73	0.71
9:AF:346:PRO:HD3	8:AG:397:LEU:HD11	1.72	0.71
8:AO:40:LYS:HE3	8:AO:42:ILE:HD11	1.72	0.71
8:BO:23:LEU:HD12	8:BO:26:LEU:HD11	1.73	0.71
9:GL:174:LYS:HD3	9:GL:175:VAL:HG23	1.73	0.71
8:GO:292:THR:HG21	8:GO:331:ALA:HB1	1.73	0.71
9:NH:345:ILE:HG23	8:NI:398:MET:HE2	1.71	0.71
8:NM:64:ARG:NH1	8:NM:129:CYS:SG	2.63	0.71
9:OD:358:PRO:HG2	9:OD:361:LEU:HB3	1.72	0.71
9:OP:237:THR:HA	9:OP:240:LEU:HD13	1.72	0.71
9:PH:86:ARG:HH22	9:QH:278:SER:HA	1.55	0.71
8:UA:169:PHE:HE2	8:UA:202:PHE:HD2	1.39	0.71
9:UL:323:MET:H	9:UL:323:MET:HE3	1.55	0.71
30:V2:353:VAL:HG21	30:V3:99:ASN:HD22	1.54	0.71
41:b2:144:GLN:HG2	41:b2:234:LEU:HB3	1.72	0.71
41:b4:113:MET:HE2	44:h3:127:TYR:HB2	1.71	0.71
4:6:143:ARG:HH12	4:6:247:CYS:HB3	1.56	0.71
5:8:97:ILE:HG23	9:JJ:320:ARG:HH21	1.55	0.71
8:AM:258:ASN:HD21	9:AN:179:VAL:H	1.36	0.71
8:BM:2:ARG:HD3	8:BM:242:LEU:HD22	1.73	0.71
9:DD:229:VAL:HG22	9:DD:233:MET:HE2	1.73	0.71
9:HD:90:PHE:HB2	9:HD:92:PHE:HE1	1.56	0.71
9:HH:323:MET:HE1	8:HI:224:TYR:CG	2.26	0.71
8:HK:220:GLU:HG2	8:HK:221:ARG:HG2	1.73	0.71
8:IA:112:LYS:HA	8:IA:115:VAL:HG23	1.73	0.71
9:JF:60:VAL:HG11	9:KD:281:TYR:HB3	1.73	0.71
9:JJ:48:ASN:O	9:JJ:62:ARG:NH2	2.24	0.71
20:K2:17:HIS:HB3	8:TM:130:THR:HG22	1.72	0.71
8:KK:233:GLN:HB3	8:KK:272:TYR:HE2	1.55	0.71
8:KK:388:TRP:HB3	8:KK:425:LEU:HD11	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NF:125:GLU:OE1	36:Y4:122:HIS:ND1	2.23	0.71
9:NJ:323:MET:HA	9:NJ:326:VAL:HG12	1.71	0.71
9:SH:242:PHE:HB3	9:SH:356:ILE:HD13	1.71	0.71
9:VJ:276:ARG:HD3	39:b:457:ILE:HG12	1.72	0.71
35:XA:179:ALA:HA	35:XA:182:LYS:HB2	1.70	0.71
9:AN:159:TYR:HB3	9:AN:162:ARG:HG2	1.73	0.71
8:DE:3:GLU:H	8:DE:133:GLN:HG2	1.54	0.71
16:G:93:LYS:HE2	9:GL:92:PHE:CE1	2.25	0.71
8:GG:360:PRO:O	8:GG:370:LYS:NZ	2.24	0.71
9:JD:323:MET:N	9:JD:323:MET:SD	2.60	0.71
9:KP:362:LYS:HD2	9:KP:363:MET:HB2	1.73	0.71
8:LM:271:THR:HB	8:LM:377:MET:HB3	1.73	0.71
8:OC:172:TYR:HB2	8:OC:203:MET:HG2	1.73	0.71
9:OJ:8:GLN:HG2	9:OJ:14:ASN:HA	1.73	0.71
27:P6:158:CYS:N	17:P9:56:LEU:HD11	2.06	0.71
9:QB:151:LEU:HA	9:QB:154:LYS:HE3	1.71	0.71
8:SM:344:VAL:HG23	8:SM:346:TRP:H	1.56	0.71
9:TB:198:GLU:HA	9:TB:264:HIS:HB2	1.72	0.71
9:TB:318:ARG:HG2	9:TB:358:PRO:HD3	1.72	0.71
30:U6:183:GLU:OE1	30:U6:183:GLU:N	2.18	0.71
41:b3:415:LEU:HD21	41:b4:115:ARG:HG3	1.73	0.71
41:b4:401:TYR:OH	44:h4:108:LYS:NZ	2.24	0.71
3:3:156:GLN:HG3	9:GL:80:PRO:HB3	1.73	0.71
4:5:56:MET:HG2	4:5:65:PHE:HB3	1.72	0.71
8:BC:271:THR:HB	8:BC:377:MET:HB3	1.72	0.71
9:BL:323:MET:HA	9:BL:326:VAL:HB	1.72	0.71
8:EI:339:ARG:NE	8:EI:339:ARG:O	2.24	0.71
9:GB:8:GLN:HE21	9:GB:14:ASN:HA	1.56	0.71
8:HC:71:GLU:HG3	8:HC:73:THR:HG22	1.72	0.71
9:HF:323:MET:HA	9:HF:326:VAL:HG12	1.73	0.71
9:HL:133:PHE:HB2	9:HL:164:MET:HE1	1.73	0.71
9:IF:323:MET:N	9:IF:323:MET:SD	2.64	0.71
9:IJ:273:LEU:O	9:IJ:292:GLN:NE2	2.24	0.71
8:IK:298:PRO:HG3	36:Y1:106:TYR:CD1	2.26	0.71
9:KL:20:PHE:HA	9:KL:230:SER:OG	1.90	0.71
9:KN:232:THR:HG22	9:KN:270:PHE:HB2	1.73	0.71
9:KN:299:MET:N	9:KN:299:MET:SD	2.64	0.71
9:LB:173:PRO:HG3	9:LB:380:ARG:HH11	1.54	0.71
8:MM:393:HIS:HD2	43:k:39:MET:HE3	1.56	0.71
9:NF:322:SER:HB3	8:NG:221:ARG:HD2	1.72	0.71
9:OD:162:ARG:NH2	8:OE:97:GLU:OE2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OD:376:GLU:HA	9:OD:379:LYS:HE2	1.72	0.71
8:RC:56:THR:HA	8:SA:285:GLN:HB2	1.73	0.71
14:T3:101:ARG:NH1	30:U1:486:THR:O	2.23	0.71
8:TI:317:MET:HE1	8:TI:375:VAL:HG23	1.73	0.71
31:W:627:PHE:HB3	31:W:699:TRP:CZ3	2.25	0.71
39:a:166:GLU:HG2	42:f:544:LEU:HD13	1.72	0.71
4:6:112:LYS:HD2	4:6:183:LEU:HD12	1.73	0.70
9:BD:372:THR:HA	9:BD:422:TYR:HE1	1.54	0.70
12:C4:131:LYS:HG3	12:C5:434:LEU:HD21	1.72	0.70
9:CP:48:ASN:O	9:CP:62:ARG:NH2	2.23	0.70
9:DH:256:ASN:HD21	8:DI:181:VAL:H	1.39	0.70
9:EB:323:MET:HE1	8:EC:224:TYR:N	2.05	0.70
8:FA:258:ASN:HD22	8:FA:352:LYS:HB2	1.54	0.70
8:FK:439:SER:H	9:FL:391:ARG:HH21	1.38	0.70
8:GG:21:TRP:CZ2	8:GG:65:ALA:HB2	2.26	0.70
8:IG:101:ASN:HA	8:IG:144:GLY:H	1.56	0.70
19:J4:54:ARG:NH2	9:NJ:36:TYR:OH	2.24	0.70
9:JF:282:ARG:HD2	9:JF:288:GLU:HG3	1.72	0.70
9:JF:347:ASN:ND2	8:JG:180:ALA:O	2.24	0.70
9:KD:276:ARG:NH2	15:N2:173:LEU:O	2.22	0.70
8:LG:317:MET:HE3	8:LG:375:VAL:HG21	1.72	0.70
9:NH:376:GLU:HA	9:NH:379:LYS:HE3	1.71	0.70
9:NJ:130:LEU:HG	9:NJ:162:ARG:HD2	1.71	0.70
8:NO:56:THR:HA	8:OO:285:GLN:HB2	1.73	0.70
9:OF:198:GLU:HB2	9:OF:266:PHE:HE2	1.54	0.70
9:OL:198:GLU:HA	9:OL:264:HIS:HB2	1.73	0.70
27:P6:157:LEU:HB2	17:P9:56:LEU:HD21	1.71	0.70
8:RK:30:ILE:HD13	8:RK:36:MET:HE3	1.72	0.70
30:V7:270:LEU:H	30:V7:275:ASP:CG	1.99	0.70
35:XE:72:LYS:NZ	37:YE:64:ASP:OD1	2.24	0.70
1:0:103:LYS:NZ	4:j1:40:LEU:O	2.22	0.70
9:AL:317:PHE:HE2	9:AL:326:VAL:HG13	1.57	0.70
8:DI:203:MET:H	8:DI:203:MET:HE3	1.56	0.70
9:DN:309:ARG:HH21	9:DN:426:GLN:HG2	1.55	0.70
8:FO:53:PHE:HB3	8:FO:61:HIS:HB3	1.72	0.70
8:GC:361:THR:HA	8:GC:370:LYS:HE2	1.72	0.70
9:GF:362:LYS:HG2	9:GF:363:MET:HG3	1.72	0.70
8:HC:90:GLU:OE1	8:HC:90:GLU:N	2.21	0.70
9:JF:331:LEU:HD11	8:JG:177:VAL:HG12	1.71	0.70
9:KB:237:THR:HG22	9:KB:250:LEU:HD21	1.73	0.70
9:KD:165:ASN:HD21	9:KD:250:LEU:HD11	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LB:324:LYS:HZ1	8:LC:210:TYR:HB3	1.55	0.70
8:LO:90:GLU:OE1	8:LO:121:ARG:NH1	2.24	0.70
9:MD:323:MET:HA	9:MD:326:VAL:HG12	1.72	0.70
9:ML:372:THR:HG21	9:ML:426:GLN:HB2	1.72	0.70
8:NG:71:GLU:HG3	8:NG:98:ASP:HB2	1.73	0.70
9:NN:27:GLU:OE2	9:NN:318:ARG:NH2	2.24	0.70
9:OD:336:LYS:NZ	36:Y4:160:SER:OG	2.23	0.70
8:OE:311:LYS:H	8:OE:382:THR:HG22	1.55	0.70
8:PK:120:ASP:OD2	8:PK:121:ARG:NH2	2.23	0.70
9:QD:73:MET:N	9:QD:73:MET:SD	2.63	0.70
9:QF:164:MET:SD	9:QF:164:MET:N	2.63	0.70
25:T:369:VAL:HA	40:a1:158:VAL:HB	1.73	0.70
9:TH:372:THR:HA	9:TH:422:TYR:HE1	1.56	0.70
8:UE:7:ILE:HA	8:UE:66:VAL:HG12	1.71	0.70
30:W2:159:GLU:OE1	30:W2:159:GLU:N	2.24	0.70
39:c:373:ARG:CG	39:c:376:GLN:HE22	2.02	0.70
8:CM:27:GLU:HG2	8:CM:243:ARG:HH21	1.56	0.70
9:CP:287:PRO:HA	9:CP:329:GLN:HE22	1.57	0.70
8:FC:2:ARG:NH1	8:FC:242:LEU:O	2.23	0.70
9:FH:24:ILE:HA	9:FH:27:GLU:HG2	1.73	0.70
8:FO:151:SER:HA	8:FO:193:THR:HG21	1.73	0.70
8:JE:142:GLY:HA2	8:JE:183:GLU:HG2	1.73	0.70
8:JQ:172:TYR:HB2	8:JQ:203:MET:HB3	1.72	0.70
8:KO:271:THR:HA	8:KO:302:MET:HE1	1.72	0.70
8:LC:51:THR:HG21	8:LC:243:ARG:HG2	1.73	0.70
8:ME:112:LYS:HE3	48:q:98:THR:HA	1.72	0.70
8:MO:292:THR:HG21	8:MO:331:ALA:HB1	1.73	0.70
9:NL:14:ASN:HD21	9:NL:76:VAL:HG21	1.56	0.70
9:OB:242:PHE:HB3	9:OB:356:ILE:HD12	1.73	0.70
9:SN:376:GLU:HG2	9:SN:380:ARG:HH12	1.56	0.70
14:T4:65:HIS:NE2	30:V5:376:MET:SD	2.64	0.70
30:V3:397:ALA:HB2	30:V4:280:PHE:HE1	1.55	0.70
8:WA:2:ARG:HH22	9:WB:71:GLY:HA3	1.55	0.70
8:WE:172:TYR:HH	8:WE:388:TRP:HD1	1.38	0.70
8:WM:292:THR:HG21	8:WM:331:ALA:HB1	1.72	0.70
45:m:2:ALA:O	45:m:26:ARG:NH2	2.24	0.70
47:p:459:VAL:HG12	47:p:463:LYS:HZ2	1.56	0.70
9:AL:44:LEU:O	17:M:214:GLN:NE2	2.24	0.70
9:CB:171:PRO:O	9:CB:380:ARG:NH2	2.21	0.70
8:DM:121:ARG:HH12	8:DM:124:LYS:HD2	1.56	0.70
8:EE:346:TRP:HB3	9:EF:390:ARG:HH12	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JI:352:LYS:HE2	9:JJ:178:THR:HA	1.74	0.70
9:MJ:318:ARG:HD3	9:MJ:358:PRO:HD3	1.73	0.70
8:NG:194:THR:O	8:NG:266:HIS:NE2	2.22	0.70
9:PD:371:SER:O	9:PD:422:TYR:OH	2.08	0.70
8:QO:15:GLN:OE1	50:QO:501:GTP:N7	2.23	0.70
11:R3:309:MET:HE1	11:R4:194:LEU:HB3	1.73	0.70
30:V2:391:MET:O	30:V2:394:THR:N	2.23	0.70
30:V3:236:ILE:HA	30:V3:317:LEU:HD21	1.73	0.70
8:WE:377:MET:SD	8:WE:379:SER:HB2	2.32	0.70
35:XD:20:LYS:HD3	35:XD:23:GLN:HB2	1.73	0.70
42:e:353:LYS:HG2	42:e:354:LYS:HG2	1.74	0.70
5:8:77:GLU:OE2	10:B:58:ARG:NH2	2.24	0.70
9:AL:48:ASN:O	9:AL:62:ARG:NH2	2.24	0.70
9:CF:372:THR:HA	9:CF:422:TYR:HE1	1.57	0.70
8:CK:50:ASN:O	8:CK:64:ARG:NH1	2.23	0.70
8:FI:271:THR:HB	8:FI:377:MET:HB3	1.73	0.70
8:FM:88:HIS:HE1	8:GM:284:GLU:HG2	1.55	0.70
9:HL:372:THR:HA	9:HL:422:TYR:HE1	1.57	0.70
8:JI:356:ASN:OD1	8:JI:357:TYR:N	2.23	0.70
8:KK:183:GLU:HA	8:KK:186:ASN:HD22	1.57	0.70
8:LK:56:THR:HG23	8:LK:58:ALA:H	1.57	0.70
8:MC:50:ASN:O	8:MC:64:ARG:NH1	2.25	0.70
8:MC:329:ASN:ND2	9:MD:205:GLU:OE2	2.22	0.70
8:NM:53:PHE:CD2	8:NM:61:HIS:CD2	2.79	0.70
8:OK:139:HIS:O	8:OK:170:ALA:HA	1.91	0.70
9:OP:210:ILE:HG13	9:OP:214:THR:HB	1.72	0.70
23:P:62:LYS:NZ	33:X5:24:PRO:O	2.25	0.70
9:PJ:324:LYS:HG3	8:PK:222:PRO:HD2	1.73	0.70
28:Q3:168:PRO:O	12:S8:374:GLN:NE2	2.24	0.70
9:QB:318:ARG:HD3	9:QB:358:PRO:HD3	1.74	0.70
8:RE:7:ILE:HB	8:RE:137:ILE:HG22	1.73	0.70
9:RL:136:THR:HG22	9:RL:167:PHE:HB2	1.74	0.70
8:VI:113:GLU:HG2	8:VI:114:ILE:HG12	1.72	0.70
8:WG:120:ASP:OD2	8:WG:121:ARG:NH1	2.25	0.70
8:AC:56:THR:HG23	8:AC:58:ALA:H	1.55	0.70
8:AM:212:ILE:HG21	8:AM:302:MET:HE1	1.73	0.70
9:DD:372:THR:HA	9:DD:422:TYR:HE1	1.56	0.70
8:FC:1:MET:SD	8:FC:2:ARG:N	2.64	0.70
8:IG:263:PRO:HB2	34:X6:263:ARG:HH12	1.57	0.70
8:JE:169:PHE:HA	8:JE:202:PHE:HB2	1.72	0.70
9:JF:362:LYS:HG2	9:JF:363:MET:HG3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KI:437:VAL:O	9:KJ:391:ARG:NH2	2.23	0.70
8:LI:71:GLU:OE1	8:LI:73:THR:OG1	2.10	0.70
9:LN:213:ARG:HH21	9:LN:297:LYS:HB2	1.57	0.70
22:M3:159:LYS:NZ	27:P5:68:TYR:OH	2.23	0.70
9:MD:309:ARG:HG3	9:MD:426:GLN:HG3	1.71	0.70
8:MK:258:ASN:HD22	8:MK:258:ASN:H	1.39	0.70
9:MP:35:THR:OG1	9:MP:37:HIS:NE2	2.19	0.70
8:NM:274:PRO:HB2	8:NM:276:ILE:HG23	1.73	0.70
9:OD:1:MET:HE3	9:OD:2:ARG:HG3	1.73	0.70
9:PB:323:MET:H	9:PB:323:MET:HE3	1.56	0.70
9:PD:228:LEU:HG	9:PD:300:MET:HE3	1.73	0.70
8:PI:30:ILE:HD11	8:PI:61:HIS:CD2	2.26	0.70
9:SH:8:GLN:HB3	9:SH:65:LEU:HA	1.74	0.70
9:SH:238:THR:HG21	9:SH:318:ARG:HD3	1.73	0.70
8:SM:258:ASN:HD22	8:SM:352:LYS:HB2	1.55	0.70
14:T1:162:ARG:NH2	14:T1:173:GLU:OE2	2.25	0.70
8:UO:56:THR:HA	8:VO:285:GLN:HB2	1.74	0.70
9:WB:198:GLU:HA	9:WB:264:HIS:HB2	1.74	0.70
39:c:194:MET:HA	39:c:197:ILE:HD12	1.74	0.70
4:6:205:THR:HG22	30:W0:160:LEU:HD11	1.74	0.70
9:AF:46:ARG:HH12	8:AG:73:THR:HB	1.57	0.70
9:BB:143:THR:HG23	9:BB:147:MET:HE1	1.74	0.70
8:BG:195:LEU:HD11	8:BG:264:ARG:HD2	1.73	0.70
10:C:313:ARG:O	10:C:313:ARG:NH1	2.22	0.70
12:C1:415:MET:N	12:C1:415:MET:SD	2.64	0.70
14:D4:29:VAL:HG23	12:S0:212:HIS:HE1	1.55	0.70
8:GK:254:GLU:HG2	9:GL:98:GLY:HA2	1.74	0.70
9:JB:256:ASN:HD22	8:JC:182:VAL:HG12	1.56	0.70
8:JO:68:VAL:HG12	8:JO:93:ILE:HB	1.72	0.70
8:LC:98:ASP:O	8:LC:105:ARG:NH2	2.25	0.70
9:LD:376:GLU:HG2	9:LD:380:ARG:HH21	1.56	0.70
8:OA:28:HIS:CE1	8:OA:53:PHE:HE2	2.09	0.70
28:Q4:145:ARG:HH22	12:S8:57:LYS:HG3	1.55	0.70
8:SC:2:ARG:HD3	8:SC:242:LEU:HG	1.73	0.70
9:TH:67:ASP:HA	9:TH:143:THR:HG21	1.73	0.70
30:U3:399:ARG:HH22	30:U3:413:GLN:HB2	1.56	0.70
30:W0:243:ASN:ND2	30:W0:310:MET:SD	2.64	0.70
9:WB:73:MET:SD	9:WB:73:MET:N	2.65	0.70
9:WH:320:ARG:NH1	48:r:141:ILE:O	2.24	0.70
34:X6:223:ARG:HA	34:X6:226:ARG:HD2	1.73	0.70
41:b5:111:LEU:CD2	41:b5:114:HIS:HB2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:i4:1479:ARG:HH12	46:i4:1484:ASN:HA	1.56	0.70
4:j1:198:ALA:HA	4:j1:212:ARG:HD3	1.73	0.70
9:AD:131:GLN:NE2	8:AE:97:GLU:OE1	2.19	0.70
9:BF:159:TYR:HB3	9:BF:162:ARG:HG2	1.71	0.70
9:CL:133:PHE:HB2	9:CL:164:MET:HE3	1.72	0.70
8:EI:282:TYR:CE2	8:EI:283:HIS:CE1	2.80	0.70
8:FM:292:THR:HG21	8:FM:331:ALA:HB1	1.74	0.70
9:GH:372:THR:HG21	9:GH:426:GLN:HB2	1.73	0.70
8:GM:85:GLN:O	8:HM:283:HIS:NE2	2.25	0.70
8:HI:207:GLU:HG2	8:HI:304:LYS:HZ3	1.57	0.70
8:IO:292:THR:HG21	8:IO:331:ALA:HB1	1.71	0.70
9:KB:136:THR:HG22	9:KB:167:PHE:HB2	1.72	0.70
9:LD:419:VAL:HG21	41:b2:489:PRO:HG2	1.72	0.70
8:NI:257:THR:O	9:NJ:397:TRP:HZ3	1.74	0.70
8:NK:7:ILE:HD13	8:NK:137:ILE:HG12	1.74	0.70
8:NO:203:MET:N	8:NO:203:MET:SD	2.65	0.70
9:QN:318:ARG:HD3	9:QN:358:PRO:HD3	1.74	0.70
8:SK:271:THR:HB	8:SK:377:MET:HB3	1.73	0.70
14:T0:50:LYS:HE2	14:T1:167:LEU:HD22	1.72	0.70
8:UC:317:MET:HE1	8:UC:375:VAL:HG13	1.73	0.70
9:VF:344:TRP:HD1	9:VF:345:ILE:HG13	1.57	0.70
8:VO:70:LEU:HD13	8:VO:95:GLY:HA3	1.74	0.70
8:WC:254:GLU:O	8:WC:258:ASN:ND2	2.25	0.70
39:a:128:GLU:OE1	39:a:129:GLN:NE2	2.24	0.70
9:BH:45:GLU:HG2	9:BH:46:ARG:HG2	1.73	0.70
9:HD:198:GLU:HA	9:HD:264:HIS:HB2	1.73	0.70
9:ID:372:THR:HA	9:ID:422:TYR:HE1	1.55	0.70
8:IG:251:ASP:OD1	8:IG:252:LEU:N	2.24	0.70
9:IP:309:ARG:H	9:IP:372:THR:HB	1.55	0.70
9:MD:344:TRP:HZ3	8:ME:403:ALA:HB2	1.56	0.70
9:MH:69:GLU:HG2	9:MH:71:GLY:H	1.57	0.70
9:NF:314:ALA:HB3	9:NF:368:ILE:HB	1.74	0.70
9:NP:358:PRO:HG2	9:NP:361:LEU:HB2	1.74	0.70
28:Q4:181:GLN:HE21	28:Q4:204:PRO:HB3	1.57	0.70
11:R1:117:LEU:HD11	11:R1:137:LEU:HB3	1.74	0.70
12:S8:115:HIS:HB3	12:S8:119:ARG:HH21	1.57	0.70
8:SA:203:MET:SD	8:SA:204:VAL:N	2.64	0.70
14:T2:98:ASP:OD2	14:T2:102:LYS:NZ	2.25	0.70
30:V8:149:LEU:HD11	30:V8:291:SER:HB3	1.74	0.70
8:VG:56:THR:HG22	8:VG:60:LYS:H	1.56	0.70
30:W5:162:ARG:HH11	30:W5:311:ARG:HH22	1.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WB:239:CYS:SG	9:WB:248:ALA:N	2.64	0.70
3:3:367:ILE:C	3:3:371:LYS:HE3	2.16	0.70
1:7:87:ARG:HH12	9:JD:320:ARG:HD2	1.57	0.70
9:AD:67:ASP:O	9:AD:92:PHE:HA	1.91	0.70
8:AM:372:GLN:HB3	33:X5:49:VAL:HB	1.73	0.70
8:CE:50:ASN:OD1	8:CE:64:ARG:NH2	2.25	0.70
9:CF:362:LYS:NZ	17:J:294:ASP:OD1	2.25	0.70
9:FB:276:ARG:HH12	31:W:475:ASN:HB2	1.57	0.70
8:GM:50:ASN:O	8:GM:64:ARG:NH1	2.25	0.70
9:HJ:309:ARG:NH2	9:HJ:339:SER:O	2.25	0.70
9:IB:130:LEU:O	9:IB:162:ARG:NH1	2.24	0.70
8:IK:129:CYS:SG	8:IK:130:THR:N	2.65	0.70
9:IP:143:THR:HA	9:IP:147:MET:CE	2.22	0.70
22:M1:159:LYS:HD2	27:P3:68:TYR:CE2	2.26	0.70
8:NK:271:THR:HB	8:NK:377:MET:HB3	1.74	0.70
9:QL:324:LYS:HG3	8:QM:222:PRO:HD2	1.74	0.70
8:RE:388:TRP:HB3	8:RE:425:LEU:HD11	1.74	0.70
9:SH:311:LEU:HG	9:SH:312:THR:HG23	1.72	0.70
9:SL:346:PRO:HD3	8:SM:397:LEU:HD11	1.73	0.70
14:T4:427:ARG:HH22	30:U1:132:HIS:HE1	1.39	0.70
8:WC:326:LYS:HZ1	9:WD:219:THR:HA	1.56	0.70
8:AO:271:THR:HB	8:AO:377:MET:HB3	1.74	0.69
8:DC:201:ALA:HB1	8:DC:203:MET:HE3	1.73	0.69
8:DM:154:MET:HE1	8:DM:166:LYS:HD2	1.74	0.69
8:FI:36:MET:SD	8:FI:61:HIS:NE2	2.65	0.69
8:GC:171:ILE:HA	8:GC:204:VAL:HG23	1.72	0.69
9:HJ:70:PRO:HA	9:HJ:73:MET:HE2	1.74	0.69
9:ON:249:ASP:H	9:ON:252:LYS:HB2	1.57	0.69
9:PL:324:LYS:HG3	8:PM:222:PRO:HD2	1.74	0.69
8:QM:326:LYS:NZ	9:QN:218:THR:O	2.25	0.69
12:S5:135:ILE:HD12	12:S6:389:LYS:HD2	1.73	0.69
9:TD:372:THR:HA	9:TD:422:TYR:HE1	1.57	0.69
8:UM:292:THR:HG21	8:UM:331:ALA:HB1	1.74	0.69
9:VF:83:GLN:HA	43:i:212:GLN:HE21	1.57	0.69
8:WA:271:THR:HB	8:WA:377:MET:HB3	1.72	0.69
9:WJ:209:ASP:OD1	9:WJ:213:ARG:NH1	2.25	0.69
9:WN:48:ASN:O	9:WN:62:ARG:NH2	2.25	0.69
35:XD:164:ARG:NH2	35:XD:180:GLU:O	2.25	0.69
42:g:335:VAL:HG23	42:g:609:GLY:HA2	1.74	0.69
1:0:75:MET:SD	1:0:76:SER:N	2.57	0.69
11:B1:109:PRO:HG2	11:B1:254:LEU:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DB:289:LEU:HG	9:DB:363:MET:HE3	1.72	0.69
9:DB:403:MET:SD	9:DB:403:MET:N	2.65	0.69
9:GH:372:THR:HA	9:GH:422:TYR:HE1	1.57	0.69
8:IA:88:HIS:O	8:IA:91:GLN:NE2	2.25	0.69
9:JL:325:GLU:HA	9:JL:328:GLU:HB3	1.74	0.69
9:JP:358:PRO:HG2	9:JP:361:LEU:HB2	1.73	0.69
9:KD:246:LEU:HA	8:KE:11:GLN:HE22	1.55	0.69
8:LO:292:THR:HG21	8:LO:331:ALA:HB1	1.74	0.69
8:MA:315:CYS:HB3	8:MA:377:MET:HE1	1.74	0.69
15:N2:18:ASP:HA	15:N2:21:LEU:HG	1.72	0.69
15:N2:24:GLU:HB3	15:N2:25:ARG:HH21	1.56	0.69
25:O5:474:LYS:HG3	25:O5:499:PHE:H	1.58	0.69
9:ON:306:ARG:HD3	36:Y5:204:ALA:HB2	1.74	0.69
27:P6:86:PHE:O	27:P6:87:PHE:CD2	2.45	0.69
27:P6:134:CYS:HB2	27:P6:152:LEU:CD1	2.22	0.69
9:RD:284:LEU:HD21	9:RD:362:LYS:HD2	1.72	0.69
9:RH:323:MET:HE1	9:RH:353:VAL:HG21	1.73	0.69
12:S7:279:GLU:HB3	14:T1:16:SER:HB2	1.73	0.69
12:S8:372:ILE:HD11	14:T1:41:LEU:HD23	1.73	0.69
30:V7:176:ARG:NH2	30:V7:480:PRO:O	2.25	0.69
9:VF:237:THR:HA	9:VF:240:LEU:HD13	1.74	0.69
31:W:591:MET:HB2	31:W:593:LYS:HE2	1.74	0.69
8:WE:252:LEU:HA	8:WE:255:PHE:HE2	1.57	0.69
9:WJ:287:PRO:HA	9:WJ:329:GLN:HE22	1.57	0.69
34:X6:230:TYR:CZ	34:X6:234:LEU:HD23	2.28	0.69
8:AE:292:THR:HG21	8:AE:331:ALA:HB1	1.73	0.69
8:AG:139:HIS:NE2	8:AG:168:GLU:OE1	2.25	0.69
10:B:303:MET:HE1	8:HA:364:PRO:HB3	1.74	0.69
11:B3:323:TYR:CD1	28:Q2:137:MET:HE1	2.27	0.69
8:BE:252:LEU:HA	8:BE:255:PHE:HE1	1.56	0.69
8:CE:45:GLY:H	25:U:276:ARG:HH22	1.40	0.69
8:CO:120:ASP:OD2	8:CO:121:ARG:NH1	2.24	0.69
8:CQ:317:MET:HB2	8:CQ:353:VAL:HA	1.74	0.69
8:DK:2:ARG:HH22	9:DL:71:GLY:HA3	1.56	0.69
8:GE:1:MET:SD	8:GE:2:ARG:N	2.65	0.69
8:KM:437:VAL:O	9:KN:391:ARG:NH2	2.25	0.69
8:ME:292:THR:HG21	8:ME:331:ALA:HB1	1.74	0.69
9:NH:14:ASN:HD21	9:NH:76:VAL:HG21	1.57	0.69
9:PJ:239:CYS:SG	9:PJ:248:ALA:N	2.66	0.69
9:QD:372:THR:HA	9:QD:422:TYR:HE1	1.56	0.69
9:QF:309:ARG:H	9:QF:372:THR:HB	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S1:339:GLN:HA	12:S1:342:LYS:HD2	1.74	0.69
8:SA:319:TYR:HE2	8:SA:353:VAL:HG13	1.57	0.69
30:U7:481:ARG:HD3	30:U7:481:ARG:H	1.57	0.69
9:UD:173:PRO:HG3	9:UD:380:ARG:HD2	1.73	0.69
9:WF:372:THR:HA	9:WF:422:TYR:HE1	1.56	0.69
35:XB:164:ARG:NH2	35:XB:180:GLU:O	2.24	0.69
39:a:312:GLN:HA	39:a:315:ILE:HD12	1.74	0.69
2:1:481:MET:N	2:1:481:MET:SD	2.65	0.69
8:BO:7:ILE:HB	8:BO:137:ILE:HG13	1.74	0.69
9:CF:256:ASN:HD22	8:CG:181:VAL:HG12	1.56	0.69
9:DJ:359:ARG:HE	9:DJ:360:GLY:H	1.40	0.69
8:EE:339:ARG:NE	8:EE:339:ARG:O	2.25	0.69
8:FA:292:THR:HG21	8:FA:331:ALA:HB1	1.73	0.69
9:FL:372:THR:HA	9:FL:422:TYR:HE1	1.56	0.69
9:FN:324:LYS:HG3	8:FO:222:PRO:HD2	1.74	0.69
9:GD:362:LYS:HG2	9:GD:363:MET:HG2	1.74	0.69
9:GF:267:MET:N	9:GF:267:MET:SD	2.65	0.69
8:HK:287:SER:HA	8:HK:373:ARG:HH12	1.57	0.69
9:ID:296:ALA:H	36:Y1:240:ILE:HG13	1.58	0.69
9:IL:134:GLN:HG2	9:IL:165:ASN:HB2	1.75	0.69
19:J3:233:ASP:OD1	41:b4:225:LYS:NZ	2.26	0.69
9:LB:334:GLN:HE21	9:LB:349:VAL:HG23	1.56	0.69
8:MO:298:PRO:HD3	8:MO:308:ARG:HH22	1.57	0.69
9:OJ:285:THR:H	9:OJ:288:GLU:HB2	1.57	0.69
9:OJ:384:GLN:HE22	9:OJ:388:MET:HE3	1.55	0.69
9:QB:326:VAL:O	9:QB:329:GLN:NE2	2.24	0.69
8:RI:349:THR:OG1	9:RJ:181:GLU:OE1	2.08	0.69
9:RJ:387:ALA:O	9:RJ:390:ARG:NH1	2.25	0.69
12:S2:206:MET:HE3	12:S2:461:VAL:HG12	1.73	0.69
8:SI:7:ILE:HD13	8:SI:137:ILE:HG13	1.74	0.69
8:TI:28:HIS:HE1	8:TI:243:ARG:HD2	1.57	0.69
8:TI:79:ARG:HH22	8:TI:94:THR:HG21	1.58	0.69
8:UO:316:CYS:HB3	8:UO:378:LEU:HB2	1.74	0.69
30:V2:146:LEU:HD21	30:V2:264:ASP:HB3	1.74	0.69
9:VJ:86:ARG:O	9:VJ:89:ASN:ND2	2.25	0.69
8:VK:284:GLU:OE2	8:VK:284:GLU:N	2.25	0.69
8:WC:50:ASN:O	8:WC:64:ARG:NH1	2.25	0.69
34:X7:97:LEU:HB2	34:X7:143:LEU:HD21	1.74	0.69
31:Y:153:ASN:HB3	31:Y:156:ILE:HD12	1.75	0.69
39:b:373:ARG:NH1	39:b:373:ARG:O	2.25	0.69
41:b2:357:MET:HE1	41:b2:440:HIS:HB2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AE:154:MET:HA	8:AE:154:MET:HE3	1.73	0.69
9:CD:7:LEU:HB3	9:CD:135:LEU:HD13	1.74	0.69
9:CD:173:PRO:HB3	9:CD:380:ARG:HD3	1.72	0.69
9:GB:299:MET:N	9:GB:299:MET:SD	2.65	0.69
9:HD:252:LYS:NZ	50:HE:501:GTP:O3G	2.26	0.69
9:HN:317:PHE:HB3	9:HN:321:MET:HE1	1.74	0.69
8:IC:326:LYS:O	8:IC:329:ASN:ND2	2.25	0.69
9:ID:325:GLU:OE2	8:IE:221:ARG:NH2	2.25	0.69
9:IH:245:GLN:HE21	8:II:224:TYR:HB2	1.57	0.69
9:IP:372:THR:HA	9:IP:422:TYR:HE1	1.55	0.69
19:J1:174:ARG:NH1	9:OB:218:THR:OG1	2.24	0.69
19:J4:239:PRO:HA	19:J4:242:LYS:HB2	1.74	0.69
9:JF:285:THR:HB	9:JF:287:PRO:HD2	1.72	0.69
8:KA:437:VAL:O	9:KB:391:ARG:NH2	2.22	0.69
22:M2:165:LEU:HD21	27:P4:87:PHE:CZ	2.25	0.69
9:MH:92:PHE:O	31:X:33:ARG:NH1	2.25	0.69
8:NI:260:VAL:HB	9:NJ:397:TRP:CZ2	2.28	0.69
9:NJ:118:ASP:HA	9:NJ:121:ARG:HE	1.58	0.69
9:NJ:318:ARG:NE	9:NJ:358:PRO:HD3	2.08	0.69
9:NJ:344:TRP:HZ3	8:NK:401:LYS:HB2	1.57	0.69
9:ON:20:PHE:CE2	9:ON:230:SER:HA	2.28	0.69
27:P6:165:LYS:HB3	17:P9:49:GLN:HB3	1.73	0.69
8:PM:209:ILE:HA	8:PM:212:ILE:HG22	1.75	0.69
28:Q3:174:GLN:N	28:Q3:174:GLN:OE1	2.25	0.69
9:QF:248:ALA:HA	9:QF:252:LYS:HD3	1.75	0.69
8:QG:313:MET:HE1	8:QG:435:VAL:HG11	1.73	0.69
9:QJ:178:THR:HG22	9:QJ:180:VAL:H	1.57	0.69
8:RK:274:PRO:HG2	8:RK:371:VAL:HG21	1.74	0.69
9:VJ:278:SER:HB3	9:VJ:282:ARG:HH21	1.58	0.69
9:WD:372:THR:HA	9:WD:422:TYR:HE1	1.57	0.69
37:YB:27:THR:O	37:YB:29:LYS:N	2.25	0.69
37:YE:164:GLU:HG2	37:YE:165:MET:HG2	1.74	0.69
2:2:487:TRP:HB3	2:2:490:GLU:HG2	1.73	0.69
7:A3:4:LEU:HD13	33:X4:245:VAL:HG22	1.75	0.69
9:BN:372:THR:HA	9:BN:422:TYR:HE1	1.57	0.69
9:CB:198:GLU:HA	9:CB:264:HIS:HB2	1.75	0.69
9:CN:323:MET:N	9:CN:323:MET:SD	2.66	0.69
14:D4:280:LYS:HE3	14:D4:280:LYS:HA	1.75	0.69
14:D5:333:GLU:OE2	14:D5:334:HIS:ND1	2.24	0.69
8:GG:21:TRP:CZ3	8:GG:63:PRO:HB3	2.27	0.69
9:GJ:372:THR:HA	9:GJ:422:TYR:HE1	1.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IH:238:THR:HG21	9:IH:318:ARG:HD2	1.75	0.69
9:JF:69:GLU:HG2	9:JF:71:GLY:H	1.56	0.69
8:KI:370:LYS:NZ	8:KI:371:VAL:O	2.25	0.69
8:MG:37:PRO:O	33:X4:259:ARG:NH1	2.25	0.69
9:MN:26:ASP:O	9:MN:359:ARG:NH2	2.25	0.69
9:NH:32:PRO:O	9:NH:83:GLN:NE2	2.22	0.69
8:OM:53:PHE:HB3	8:OM:61:HIS:HB3	1.73	0.69
12:S5:178:LYS:NZ	12:S5:237:LEU:O	2.25	0.69
8:TA:344:VAL:HG23	8:TA:346:TRP:H	1.57	0.69
30:U5:346:ARG:HD2	30:U5:346:ARG:C	2.17	0.69
30:V4:240:ILE:HG22	30:V4:241:ARG:NH1	2.08	0.69
8:WG:40:LYS:NZ	42:f:237:LYS:O	2.24	0.69
8:WM:413:MET:HE1	8:WM:417:GLU:HB3	1.74	0.69
31:Z:657:ASP:HB3	31:Z:660:ARG:HH21	1.58	0.69
9:BN:48:ASN:O	9:BN:62:ARG:NH2	2.24	0.69
8:CE:29:GLY:HA3	8:CE:42:ILE:HD12	1.74	0.69
9:DD:248:ALA:HA	9:DD:252:LYS:HD3	1.75	0.69
8:EG:437:VAL:O	9:EH:391:ARG:NH2	2.25	0.69
9:EN:40:SER:HB2	9:EN:43:GLN:HB2	1.72	0.69
8:GI:298:PRO:HG3	8:GI:308:ARG:HD3	1.75	0.69
9:GJ:16:ILE:HG22	9:GJ:226:ASN:OD1	1.92	0.69
9:HJ:198:GLU:HB2	9:HJ:266:PHE:HE2	1.57	0.69
9:ID:330:MET:HE3	9:ID:349:VAL:HB	1.75	0.69
8:JE:316:CYS:HB3	8:JE:378:LEU:HB2	1.75	0.69
8:JK:334:THR:O	8:JK:338:LYS:NZ	2.26	0.69
9:MJ:8:GLN:HE21	9:MJ:14:ASN:HA	1.58	0.69
17:O7:249:LYS:HE2	17:O7:249:LYS:HA	1.74	0.69
9:PH:258:VAL:HB	8:PI:407:TRP:HE1	1.57	0.69
9:PP:48:ASN:O	9:PP:62:ARG:NH2	2.26	0.69
28:Q1:20:LEU:HD21	12:S6:439:ARG:HG3	1.74	0.69
12:S4:205:ARG:HH21	12:S4:211:VAL:H	1.40	0.69
8:SG:317:MET:HE2	8:SG:319:TYR:CE1	2.26	0.69
9:SH:412:GLU:O	9:SH:416:ASN:ND2	2.25	0.69
8:SK:50:ASN:O	8:SK:64:ARG:NH1	2.26	0.69
9:SN:54:ALA:HA	9:TN:283:ALA:HB2	1.73	0.69
30:U0:402:ARG:HH11	30:U1:145:ARG:HH12	1.41	0.69
9:UB:242:PHE:HB3	9:UB:356:ILE:HD12	1.74	0.69
8:UC:70:LEU:HB3	8:UC:98:ASP:HA	1.74	0.69
8:VE:318:LEU:HD11	8:VE:378:LEU:HD23	1.75	0.69
37:YB:182:ASN:ND2	37:YB:231:MET:O	2.26	0.69
4:5:289:ALA:HB1	4:5:390:PHE:HE1	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AB:362:LYS:NZ	33:X4:75:ILE:O	2.26	0.69
8:AO:282:TYR:OH	8:MO:85:GLN:O	2.10	0.69
9:AP:230:SER:HA	9:AP:233:MET:HE3	1.74	0.69
11:B5:109:PRO:HB3	11:B5:397:LEU:HD13	1.75	0.69
9:BD:46:ARG:HH12	17:I:286:MET:HE1	1.56	0.69
8:BE:1:MET:HE1	8:BE:3:GLU:HB2	1.73	0.69
8:BG:269:LEU:HD21	8:BG:384:ILE:HD13	1.75	0.69
9:CB:248:ALA:HA	9:CB:252:LYS:HD3	1.75	0.69
8:CI:258:ASN:HD22	8:CI:352:LYS:HB2	1.58	0.69
8:CQ:211:ASP:HB3	8:CQ:215:ARG:HH21	1.57	0.69
9:DH:133:PHE:HB2	9:DH:164:MET:HE1	1.75	0.69
9:DN:345:ILE:HG23	8:DO:398:MET:HE1	1.75	0.69
8:FA:316:CYS:HB3	8:FA:378:LEU:HB2	1.74	0.69
9:FD:165:ASN:HB3	9:FD:200:TYR:HE1	1.57	0.69
8:FM:185:TYR:HE1	8:FM:404:PHE:HB2	1.58	0.69
8:GA:292:THR:HG21	8:GA:331:ALA:HB1	1.75	0.69
8:GE:70:LEU:HB3	8:GE:98:ASP:HA	1.73	0.69
9:GF:198:GLU:HG3	9:GF:266:PHE:HE1	1.57	0.69
8:GI:437:VAL:O	9:GJ:391:ARG:NH2	2.26	0.69
9:IP:198:GLU:HA	9:IP:264:HIS:HB2	1.74	0.69
19:J2:218:THR:HG22	19:J2:220:SER:H	1.58	0.69
9:JH:396:HIS:CE1	9:JH:397:TRP:CD2	2.81	0.69
8:JK:88:HIS:HE2	8:KI:284:GLU:HB2	1.57	0.69
9:KD:401:GLU:N	9:KD:401:GLU:OE2	2.25	0.69
9:KL:69:GLU:HG2	9:KL:71:GLY:H	1.56	0.69
9:LB:155:ILE:HD11	9:LB:164:MET:HE1	1.75	0.69
8:LI:264:ARG:NH1	8:LI:431:ASP:OD2	2.26	0.69
9:LP:77:ARG:NH1	25:O6:41:ARG:O	2.25	0.69
9:LP:173:PRO:HG3	9:LP:380:ARG:HD2	1.75	0.69
8:MA:292:THR:HG21	8:MA:331:ALA:HB1	1.74	0.69
9:MJ:346:PRO:HD3	8:MK:397:LEU:HD11	1.74	0.69
9:ML:324:LYS:NZ	8:MM:210:TYR:O	2.25	0.69
9:NL:322:SER:OG	9:NL:324:LYS:NZ	2.26	0.69
8:NM:175:PRO:O	8:NM:394:LYS:NZ	2.24	0.69
8:NM:325:PRO:HB2	9:NN:208:TYR:OH	1.93	0.69
9:OD:306:ARG:HG3	9:OD:307:HIS:CD2	2.28	0.69
9:OF:372:THR:HA	9:OF:422:TYR:HE1	1.58	0.69
8:OI:326:LYS:HZ2	9:OJ:220:PRO:HG2	1.57	0.69
9:OP:344:TRP:HD1	9:OP:345:ILE:HG13	1.57	0.69
8:PM:292:THR:HG21	8:PM:331:ALA:HB1	1.74	0.69
8:QC:60:LYS:NZ	8:RC:282:TYR:O	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R0:134:GLU:OE1	11:R1:11:ARG:NH2	2.25	0.69
9:RD:256:ASN:HD21	8:RE:181:VAL:H	1.41	0.69
12:S0:337:TRP:O	12:S0:341:ASN:ND2	2.26	0.69
12:S7:452:LYS:HD2	14:T2:41:LEU:HB2	1.75	0.69
9:SB:300:MET:H	9:SB:300:MET:HE3	1.58	0.69
8:SK:75:VAL:HG13	8:SK:92:LEU:HD12	1.73	0.69
30:U6:399:ARG:NH2	30:U6:410:ASP:OD1	2.21	0.69
9:UD:323:MET:HE1	8:UE:223:THR:HA	1.73	0.69
8:UE:282:TYR:HB2	39:c:373:ARG:HH21	1.56	0.69
8:UE:282:TYR:HB2	39:c:373:ARG:HH22	1.55	0.69
9:UN:164:MET:HE1	9:UN:196:THR:HA	1.75	0.69
30:V6:91:THR:HB	30:V6:94:ASP:HB3	1.75	0.69
30:V8:273:THR:OG1	4:j1:225:HIS:ND1	2.25	0.69
9:WD:406:MET:N	9:WD:406:MET:SD	2.66	0.69
9:WH:322:SER:O	8:WI:221:ARG:NH1	2.26	0.69
34:X6:192:LYS:NZ	34:X6:255:ARG:O	2.25	0.69
42:f:516:GLN:NE2	42:f:574:TYR:OH	2.24	0.69
3:3:162:GLU:HA	3:3:165:ARG:HD3	1.75	0.69
9:BB:198:GLU:HA	9:BB:264:HIS:HB2	1.75	0.69
12:C2:287:VAL:HA	12:C2:290:VAL:HG12	1.74	0.69
8:CI:27:GLU:HG2	8:CI:243:ARG:HH21	1.58	0.69
8:DM:254:GLU:HG2	9:DN:98:GLY:HA2	1.74	0.69
9:DP:323:MET:SD	9:DP:323:MET:N	2.65	0.69
15:E:204:GLN:O	29:S:325:ARG:NH2	2.26	0.69
8:EC:259:LEU:HD21	8:EC:316:CYS:HB2	1.75	0.69
9:FD:1:MET:HE1	9:FD:2:ARG:HE	1.57	0.69
9:FJ:15:GLN:NE2	52:FJ:502:GDP:N7	2.39	0.69
8:GG:88:HIS:HE2	8:HG:284:GLU:HG2	1.57	0.69
9:ID:299:MET:HE1	9:ID:304:ASP:HA	1.73	0.69
8:IE:250:VAL:HG13	8:IE:254:GLU:HB2	1.73	0.69
9:IN:173:PRO:HG3	9:IN:380:ARG:HG2	1.75	0.69
9:KD:406:MET:H	9:KD:406:MET:HE2	1.58	0.69
8:LA:322:ASP:OD2	8:LA:373:ARG:NH2	2.26	0.69
8:LE:250:VAL:HG23	8:LE:254:GLU:HB2	1.73	0.69
8:PC:65:ALA:O	8:PC:91:GLN:NE2	2.26	0.69
8:QM:133:GLN:HG2	8:QM:252:LEU:HD23	1.75	0.69
11:R2:136:GLU:HB3	11:R2:261:THR:HG22	1.74	0.69
11:R2:205:PRO:HD2	11:R2:206:THR:N	2.02	0.69
8:RE:326:LYS:HD2	9:RF:220:PRO:HD2	1.75	0.69
12:S8:180:ARG:HH11	12:S8:329:LEU:HD13	1.57	0.69
8:TM:172:TYR:HB2	8:TM:203:MET:SD	2.33	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WO:203:MET:HE1	8:WO:388:TRP:HE1	1.58	0.69
9:AH:31:ASP:OD1	9:AH:34:GLY:N	2.23	0.69
10:C:465:LYS:HD2	8:GG:41:THR:HA	1.75	0.69
12:C6:88:THR:H	14:D4:49:ALA:HB3	1.58	0.69
9:CJ:362:LYS:HG3	9:CJ:363:MET:HG3	1.74	0.69
8:II:294:ALA:HA	8:II:297:GLU:HG2	1.75	0.69
8:KI:36:MET:SD	8:KI:61:HIS:NE2	2.65	0.69
9:LJ:156:ARG:NH1	9:LJ:197:ASP:OD1	2.26	0.69
9:MH:245:GLN:OE1	8:MI:15:GLN:NE2	2.26	0.69
8:OG:313:MET:HB2	8:OG:380:ASN:O	1.93	0.69
8:OO:298:PRO:HB2	36:Y5:186:ARG:HH22	1.57	0.69
9:PF:189:VAL:HG12	9:PF:415:MET:HE3	1.74	0.69
9:TB:54:ALA:HB3	9:TB:58:LYS:HB3	1.75	0.69
8:TI:68:VAL:HG12	8:TI:93:ILE:HB	1.74	0.69
30:U1:201:ARG:HH21	30:U1:207:VAL:H	1.41	0.69
30:U1:339:THR:HB	30:U1:473:ARG:HH22	1.58	0.69
8:VI:292:THR:HG21	8:VI:331:ALA:HB1	1.74	0.69
8:WG:50:ASN:O	8:WG:64:ARG:NH1	2.26	0.69
46:i3:1358:ILE:O	46:i3:1394:PHE:N	2.26	0.69
48:r:148:PRO:HD2	48:r:149:HIS:N	2.05	0.69
9:AJ:256:ASN:HD22	9:AJ:350:LYS:HE2	1.56	0.68
9:BP:68:LEU:HB3	9:BP:96:GLY:HA2	1.74	0.68
12:C3:126:ARG:HH12	11:R4:44:ILE:HA	1.58	0.68
9:CL:171:PRO:O	9:CL:380:ARG:NH2	2.27	0.68
9:ED:372:THR:HA	9:ED:422:TYR:HE1	1.58	0.68
9:EF:48:ASN:O	9:EF:62:ARG:NH2	2.25	0.68
8:FC:339:ARG:NH1	8:FC:340:THR:OG1	2.26	0.68
9:FF:48:ASN:O	9:FF:62:ARG:NH2	2.25	0.68
8:FO:388:TRP:HB3	8:FO:425:LEU:HD21	1.75	0.68
9:GB:318:ARG:HG2	9:GB:358:PRO:HD3	1.74	0.68
9:GF:371:SER:O	9:GF:422:TYR:OH	2.11	0.68
8:GK:338:LYS:NZ	36:Y2:100:THR:OG1	2.22	0.68
9:IJ:49:VAL:HG11	9:IJ:241:ARG:HG2	1.74	0.68
9:IL:317:PHE:HB3	9:IL:321:MET:HE1	1.73	0.68
8:JQ:50:ASN:O	8:JQ:64:ARG:NH1	2.25	0.68
20:K2:55:MET:HE3	8:UO:18:ASN:HB3	1.76	0.68
9:KF:372:THR:HG21	9:KF:426:GLN:HB2	1.74	0.68
8:KM:317:MET:HE2	8:KM:377:MET:HE3	1.75	0.68
8:KO:320:ARG:HD3	8:KO:360:PRO:HG3	1.74	0.68
9:LF:48:ASN:O	9:LF:62:ARG:NH2	2.26	0.68
8:ME:254:GLU:HG2	9:MF:98:GLY:HA2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MG:195:LEU:HD23	8:MG:196:GLU:HG3	1.74	0.68
9:NB:230:SER:HA	9:NB:233:MET:HE3	1.75	0.68
9:NH:267:MET:HE1	9:NH:373:ALA:HB3	1.75	0.68
24:O2:105:CYS:SG	24:O2:106:ALA:N	2.66	0.68
9:OP:67:ASP:HA	9:OP:143:THR:HG21	1.74	0.68
8:QI:23:LEU:HB2	8:QI:229:ARG:HH22	1.57	0.68
9:QP:230:SER:HA	9:QP:233:MET:HG2	1.75	0.68
9:SB:52:ASN:OD1	9:SB:62:ARG:NH1	2.26	0.68
14:T4:78:ARG:HH12	14:T5:332:GLN:HA	1.57	0.68
30:V1:411:VAL:HG23	30:V1:412:PRO:HD3	1.75	0.68
30:V3:160:LEU:HB2	30:V3:250:LEU:HD22	1.75	0.68
9:VJ:173:PRO:HG3	9:VJ:380:ARG:HG2	1.75	0.68
41:b4:369:GLN:HA	41:b4:372:TYR:HD2	1.58	0.68
43:k:156:GLU:HG3	43:k:160:LYS:HE3	1.73	0.68
7:A3:47:GLU:OE1	11:B2:40:GLN:NE2	2.26	0.68
7:A5:198:ILE:HD11	11:R4:413:ARG:NH1	2.08	0.68
8:AA:437:VAL:O	9:AB:391:ARG:NH2	2.27	0.68
9:AL:132:GLY:HA3	9:AL:163:ILE:O	1.93	0.68
8:BI:32:PRO:HD2	8:BI:33:ASP:H	1.57	0.68
14:D3:106:ARG:NH2	14:D4:369:CYS:SG	2.66	0.68
9:GL:173:PRO:HG3	9:GL:380:ARG:HD2	1.74	0.68
9:IB:269:GLY:HA3	9:IB:367:PHE:HB3	1.74	0.68
8:IC:105:ARG:HA	8:IC:411:GLU:OE2	1.93	0.68
9:JD:325:GLU:H	8:JE:221:ARG:NH1	1.91	0.68
9:JJ:50:TYR:CE2	9:JJ:241:ARG:HD3	2.23	0.68
9:LN:267:MET:HE1	9:LN:305:PRO:HG3	1.76	0.68
8:MK:204:VAL:HG13	8:MK:302:MET:HB2	1.74	0.68
8:NA:70:LEU:HB3	8:NA:98:ASP:HA	1.73	0.68
8:NK:292:THR:HG21	8:NK:331:ALA:HB1	1.75	0.68
9:OD:372:THR:HA	9:OD:422:TYR:HE1	1.57	0.68
9:OH:276:ARG:NH1	9:OH:276:ARG:O	2.26	0.68
9:QB:309:ARG:H	9:QB:372:THR:HB	1.59	0.68
12:S4:192:LEU:HB2	12:S4:226:ILE:HD13	1.75	0.68
14:T0:61:TYR:HB3	30:V9:380:ARG:HH12	1.58	0.68
8:TI:26:LEU:O	47:p:320:ARG:NH2	2.27	0.68
9:TJ:167:PHE:CE2	9:TJ:233:MET:HG3	2.26	0.68
8:TK:316:CYS:HB3	8:TK:378:LEU:HB2	1.74	0.68
9:UH:198:GLU:HA	9:UH:264:HIS:HB2	1.75	0.68
8:VK:259:LEU:HD21	8:VK:316:CYS:HB2	1.76	0.68
9:WB:401:GLU:HB2	9:WB:403:MET:HE1	1.73	0.68
35:XD:78:MET:HE2	35:XD:80:ILE:HD11	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YE:89:TYR:CD1	37:YE:118:MET:HE1	2.28	0.68
4:j1:105:GLN:O	4:j1:108:SER:OG	2.11	0.68
9:AL:256:ASN:HD21	8:AM:181:VAL:H	1.40	0.68
10:B:120:GLU:OE2	10:C:469:LYS:NZ	2.26	0.68
8:CM:254:GLU:O	8:CM:258:ASN:ND2	2.26	0.68
8:EI:172:TYR:HB2	8:EI:203:MET:HB3	1.74	0.68
8:FI:364:PRO:HA	31:Y:708:GLN:HB2	1.75	0.68
17:H:234:MET:HB3	17:H:238:ASP:HB2	1.76	0.68
9:HD:122:LYS:HE2	9:HD:122:LYS:HA	1.76	0.68
8:HE:258:ASN:HD22	8:HE:352:LYS:HB2	1.57	0.68
9:HH:198:GLU:HA	9:HH:264:HIS:HB2	1.75	0.68
9:HJ:282:ARG:NH2	9:HJ:292:GLN:OE1	2.25	0.68
17:I:7:HIS:HA	25:U:414:MET:HE3	1.75	0.68
9:IL:68:LEU:HB3	9:IL:96:GLY:HA2	1.75	0.68
8:JI:292:THR:HG21	8:JI:331:ALA:HB1	1.72	0.68
9:KB:323:MET:N	9:KB:323:MET:SD	2.65	0.68
9:KP:70:PRO:HA	9:KP:73:MET:HG2	1.76	0.68
8:LG:292:THR:HG21	8:LG:331:ALA:HB1	1.74	0.68
9:MD:178:THR:HB	9:MD:181:GLU:HG3	1.75	0.68
8:MG:211:ASP:OD2	8:MG:215:ARG:NH2	2.26	0.68
9:NB:137:HIS:NE2	9:NB:166:THR:OG1	2.25	0.68
9:OH:245:GLN:HB3	8:OI:224:TYR:CE1	2.28	0.68
9:OJ:35:THR:HG23	9:OJ:58:LYS:NZ	2.09	0.68
9:PB:48:ASN:O	9:PB:62:ARG:NH2	2.27	0.68
28:Q3:152:THR:OG1	12:S8:437:ARG:NH2	2.25	0.68
8:QO:36:MET:HE3	8:QO:37:PRO:HD2	1.74	0.68
9:RN:67:ASP:HB3	9:RN:73:MET:HE1	1.76	0.68
12:S5:114:ARG:CZ	12:S6:367:LYS:HG2	2.23	0.68
8:SC:16:ILE:HD12	8:SC:138:PHE:HD2	1.59	0.68
9:VH:372:THR:HA	9:VH:422:TYR:HE1	1.57	0.68
35:XC:79:ILE:HG23	35:XC:131:GLN:HE22	1.57	0.68
9:BH:284:LEU:HD13	9:BH:362:LYS:HB2	1.75	0.68
8:BK:325:PRO:O	8:BK:329:ASN:ND2	2.26	0.68
8:CC:254:GLU:HG3	9:CD:98:GLY:HA2	1.75	0.68
14:D2:81:SER:HB2	14:D3:339:LEU:HD11	1.74	0.68
9:ED:286:VAL:HG22	9:ED:321:MET:HE3	1.75	0.68
9:FN:323:MET:N	9:FN:323:MET:SD	2.63	0.68
8:GE:195:LEU:HD12	8:GE:196:GLU:HG3	1.76	0.68
8:KC:191:THR:HA	8:KC:194:THR:HG22	1.75	0.68
8:KI:203:MET:HE1	8:KI:267:PHE:HD1	1.56	0.68
9:KJ:330:MET:HE2	9:KJ:349:VAL:HG11	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KL:55:THR:HG23	9:LL:283:ALA:HA	1.75	0.68
8:KO:203:MET:HE3	8:KO:384:ILE:HD11	1.75	0.68
8:LK:254:GLU:HG2	9:LL:98:GLY:HA2	1.74	0.68
9:MJ:285:THR:HG22	9:MJ:287:PRO:HD2	1.75	0.68
8:NO:217:LEU:HD21	8:NO:367:ASP:HB3	1.75	0.68
9:OD:214:THR:HG21	9:OD:273:LEU:HG	1.75	0.68
27:P3:157:LEU:HD23	27:P3:158:CYS:H	1.58	0.68
8:QG:1:MET:HE3	8:QG:50:ASN:HB3	1.75	0.68
8:QO:90:GLU:N	8:QO:90:GLU:OE1	2.25	0.68
9:TD:1:MET:HE1	9:TD:2:ARG:HE	1.58	0.68
9:TD:412:GLU:HA	9:TD:415:MET:HE2	1.76	0.68
8:UE:271:THR:HB	8:UE:377:MET:HB3	1.75	0.68
35:XC:74:PRO:HD2	35:XC:169:ASP:HA	1.74	0.68
36:Y2:189:GLU:HG3	36:Y2:191:GLN:H	1.58	0.68
8:AM:271:THR:HB	8:AM:377:MET:HB3	1.75	0.68
8:EA:50:ASN:O	8:EA:64:ARG:NH1	2.27	0.68
9:ED:363:MET:HE3	9:ED:364:SER:N	2.09	0.68
8:EI:292:THR:HG21	8:EI:331:ALA:HB1	1.75	0.68
15:F:26:MET:HE3	6:N1:64:LYS:HE2	1.76	0.68
9:FL:267:MET:HE3	9:FL:299:MET:HG2	1.76	0.68
9:GL:358:PRO:HG2	9:GL:361:LEU:HB3	1.75	0.68
9:HB:181:GLU:HA	9:HB:184:ASN:HD21	1.57	0.68
9:JD:51:TYR:HB3	9:JD:59:TYR:HB3	1.74	0.68
9:JH:204:ASN:OD1	52:JH:502:GDP:N2	2.26	0.68
8:JI:254:GLU:HG2	9:JJ:98:GLY:HA2	1.74	0.68
8:KA:23:LEU:HB2	8:KA:229:ARG:HH22	1.58	0.68
8:KC:254:GLU:HG2	9:KD:98:GLY:HA2	1.76	0.68
9:KL:376:GLU:HG2	9:KL:380:ARG:HH12	1.59	0.68
17:O7:14:PRO:HA	17:O7:56:LEU:HD21	1.75	0.68
8:PM:313:MET:HE3	8:PM:346:TRP:HH2	1.58	0.68
9:QB:325:GLU:OE1	8:QC:221:ARG:NH1	2.27	0.68
8:SC:316:CYS:HB3	8:SC:378:LEU:HB2	1.76	0.68
8:TG:316:CYS:HB3	8:TG:378:LEU:HB2	1.75	0.68
8:UI:3:GLU:H	8:UI:133:GLN:HG2	1.57	0.68
30:V2:387:TYR:HA	30:V2:390:LYS:HG2	1.74	0.68
30:V6:131:ILE:HD11	30:V7:423:ILE:HG12	1.74	0.68
9:WL:48:ASN:O	9:WL:62:ARG:NH2	2.26	0.68
33:X4:221:PRO:HB2	33:X4:230:VAL:HG21	1.73	0.68
12:C1:88:THR:HA	17:O9:184:ASP:CG	2.18	0.68
8:EC:437:VAL:O	9:ED:391:ARG:NH2	2.25	0.68
8:IA:167:LEU:HD11	8:IA:169:PHE:CZ	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IP:7:LEU:HD21	9:IP:151:LEU:HD22	1.75	0.68
19:J3:227:LYS:HE3	41:b4:148:ASN:HB2	1.76	0.68
9:JB:256:ASN:HD21	8:JC:181:VAL:H	1.41	0.68
8:JO:292:THR:HG21	8:JO:331:ALA:HB1	1.75	0.68
8:KA:203:MET:HE1	8:KA:267:PHE:HD2	1.59	0.68
9:KD:136:THR:HG22	9:KD:167:PHE:HB2	1.74	0.68
9:KD:323:MET:SD	9:KD:323:MET:N	2.60	0.68
9:KF:8:GLN:HE21	9:KF:17:GLY:HA3	1.58	0.68
9:LD:91:VAL:HG11	9:LD:116:VAL:HG12	1.75	0.68
9:LN:295:ASP:OD2	9:LN:297:LYS:NZ	2.26	0.68
8:NK:70:LEU:HB3	8:NK:98:ASP:HA	1.75	0.68
9:NP:377:LEU:HA	9:NP:380:ARG:HE	1.57	0.68
17:O8:57:SER:HB3	17:O8:59:MET:HE2	1.75	0.68
27:P4:79:LEU:O	25:U:206:LYS:NZ	2.26	0.68
8:PC:261:PRO:HG3	8:PC:313:MET:HE1	1.74	0.68
8:RE:437:VAL:O	9:RF:391:ARG:NH2	2.26	0.68
9:RH:311:LEU:HG	9:RH:312:THR:HG23	1.76	0.68
12:S8:485:ARG:NH1	14:T2:404:ASN:OD1	2.26	0.68
14:T0:30:ALA:HB1	14:T1:189:LEU:HD11	1.76	0.68
14:T5:317:LYS:HE3	14:T5:317:LYS:HA	1.75	0.68
9:TH:318:ARG:HG2	9:TH:358:PRO:HD3	1.75	0.68
9:UB:276:ARG:O	9:UB:276:ARG:NH1	2.25	0.68
33:X4:362:TRP:CD1	33:X4:363:THR:H	2.11	0.68
31:Z:433:ILE:HD11	31:Z:455:ALA:HB1	1.75	0.68
7:A4:22:SER:OG	7:A4:26:ARG:NH1	2.27	0.68
8:BI:88:HIS:CE1	8:BI:90:GLU:HG2	2.29	0.68
8:FA:258:ASN:HD21	9:FB:179:VAL:H	1.41	0.68
16:G:36:VAL:HG13	9:GJ:227:HIS:CE1	2.29	0.68
9:IL:276:ARG:O	9:IL:276:ARG:NE	2.25	0.68
8:MA:50:ASN:O	8:MA:64:ARG:NH1	2.27	0.68
9:NJ:44:LEU:HA	9:NJ:47:ILE:HD11	1.76	0.68
27:P3:172:TRP:O	11:R1:20:ASN:ND2	2.26	0.68
9:PF:324:LYS:HG3	8:PG:222:PRO:HD2	1.75	0.68
9:PP:372:THR:HA	9:PP:422:TYR:HE1	1.59	0.68
12:S7:183:ARG:O	12:S7:187:GLU:HG2	1.94	0.68
12:S8:201:HIS:HA	12:S8:204:LYS:HE2	1.76	0.68
30:U2:387:TYR:OH	30:U3:272:SER:O	2.11	0.68
30:U3:393:GLN:HB3	30:U4:280:PHE:HB2	1.76	0.68
9:VH:317:PHE:HB2	9:VH:353:VAL:HG22	1.76	0.68
9:WH:48:ASN:O	9:WH:62:ARG:NH2	2.27	0.68
9:WN:299:MET:HE1	9:WN:305:PRO:HD3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:X8:25:LYS:HB2	34:X8:27:LYS:HZ2	1.58	0.68
39:c:372:LEU:HD23	39:c:372:LEU:C	2.18	0.68
47:p:221:GLU:HA	47:p:224:GLU:OE2	1.93	0.68
3:3:145:ARG:NH2	9:GL:35:THR:HG23	2.08	0.68
7:A4:282:LEU:HB2	7:A4:372:LEU:HD22	1.76	0.68
11:B5:109:PRO:HD2	11:B5:110:LEU:H	1.58	0.68
9:BF:321:MET:HE2	9:BF:363:MET:HG3	1.76	0.68
8:BK:215:ARG:NH2	8:BK:300:ASN:OD1	2.26	0.68
8:CQ:22:GLU:OE2	8:CQ:22:GLU:N	2.23	0.68
8:CQ:287:SER:N	8:CQ:290:GLU:OE1	2.19	0.68
9:GJ:8:GLN:HB3	9:GJ:65:LEU:HA	1.76	0.68
9:GN:323:MET:SD	9:GN:323:MET:N	2.57	0.68
9:HB:42:LEU:HD21	9:HB:356:ILE:HD13	1.74	0.68
8:HC:90:GLU:HB2	8:HC:121:ARG:HH21	1.58	0.68
8:HC:352:LYS:HZ1	9:HD:179:VAL:HG22	1.58	0.68
9:HL:114:ASP:HB3	36:Y1:93:TYR:HE2	1.58	0.68
9:HL:267:MET:HE1	9:HL:373:ALA:HB3	1.76	0.68
9:IJ:198:GLU:HA	9:IJ:264:HIS:HB2	1.76	0.68
9:IN:63:ALA:O	9:IN:89:ASN:ND2	2.27	0.68
9:JH:358:PRO:HG2	9:JH:361:LEU:HB3	1.76	0.68
9:KF:113:VAL:HG11	9:KF:150:LEU:HD22	1.75	0.68
8:KG:254:GLU:HG2	9:KH:98:GLY:HA2	1.76	0.68
9:KN:276:ARG:O	9:KN:279:GLN:NE2	2.25	0.68
9:KP:374:ILE:HG13	9:KP:377:LEU:HD23	1.74	0.68
9:MN:375:GLN:NE2	9:MN:423:GLN:OE1	2.27	0.68
8:MO:339:ARG:HH12	45:i1:26:ARG:HG2	1.57	0.68
9:OH:274:THR:OG1	9:OH:279:GLN:NE2	2.26	0.68
9:OL:87:PRO:HA	9:OL:90:PHE:HD2	1.58	0.68
9:ON:198:GLU:HA	9:ON:264:HIS:HB2	1.76	0.68
26:P2:48:VAL:HG22	26:P2:66:LYS:HE2	1.75	0.68
8:QC:21:TRP:HE1	8:QC:63:PRO:HB3	1.59	0.68
8:QO:167:LEU:HD21	8:QO:256:GLN:HE21	1.58	0.68
9:TL:133:PHE:HB2	9:TL:164:MET:HE1	1.75	0.68
9:TL:252:LYS:NZ	50:TM:501:GTP:O3G	2.27	0.68
8:UK:50:ASN:O	8:UK:64:ARG:NH1	2.27	0.68
9:UN:302:ALA:O	9:UN:380:ARG:NH2	2.26	0.68
8:VE:60:LYS:HZ1	8:WE:283:HIS:HA	1.59	0.68
9:VH:297:LYS:HD2	9:VH:297:LYS:O	1.93	0.68
9:VL:256:ASN:HD21	8:VM:181:VAL:H	1.40	0.68
9:VN:377:LEU:HA	9:VN:380:ARG:HD3	1.76	0.68
8:WE:292:THR:HG21	8:WE:331:ALA:HB1	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XG:102:ARG:HH12	35:XG:117:PHE:HD1	1.42	0.68
39:b:321:GLU:HG2	39:b:324:ARG:HH21	1.58	0.68
41:b5:275:THR:HG22	41:b5:277:GLY:H	1.57	0.68
47:p:418:VAL:HG12	47:p:422:LYS:HE3	1.76	0.68
4:6:63:ARG:HH22	9:IL:74:ASP:HA	1.58	0.68
7:A4:207:ILE:HD11	33:X4:397:ARG:HG3	1.74	0.68
8:BI:279:GLU:HG2	17:K:237:ARG:HE	1.59	0.68
12:C3:136:ARG:NH2	12:C4:388:GLU:OE2	2.26	0.68
12:C4:320:LYS:HZ1	11:R4:249:GLN:HA	1.58	0.68
9:FL:136:THR:HG22	9:FL:167:PHE:HB2	1.76	0.68
9:GD:86:ARG:HH12	9:HD:278:SER:HA	1.58	0.68
8:GI:102:ASN:OD1	8:GI:105:ARG:N	2.20	0.68
8:HC:7:ILE:HB	8:HC:137:ILE:HG13	1.76	0.68
8:II:382:THR:HA	8:II:432:TYR:HE2	1.59	0.68
9:KB:182:PRO:HB2	9:KB:388:MET:HE1	1.74	0.68
9:KF:136:THR:HG22	9:KF:167:PHE:HB2	1.75	0.68
8:KM:130:THR:O	41:b4:385:ARG:NH2	2.27	0.68
9:LF:67:ASP:O	9:LF:92:PHE:HA	1.94	0.68
8:NC:123:ARG:NH2	8:OC:297:GLU:OE2	2.26	0.68
9:NL:118:ASP:HA	9:NL:121:ARG:HD3	1.76	0.68
8:NM:206:ASN:OD1	50:NM:501:GTP:N2	2.26	0.68
25:O5:234:GLN:OE1	27:P6:51:LYS:NZ	2.27	0.68
9:PF:86:ARG:O	9:PF:89:ASN:ND2	2.27	0.68
9:PJ:321:MET:HE3	9:PJ:326:VAL:HG23	1.76	0.68
11:R3:100:GLU:OE2	14:T2:161:ARG:NH1	2.26	0.68
9:RF:173:PRO:HB3	9:RF:380:ARG:HD3	1.76	0.68
8:RK:1:MET:SD	8:RK:2:ARG:N	2.67	0.68
9:SN:198:GLU:HA	9:SN:264:HIS:HB2	1.76	0.68
9:TN:73:MET:HE2	9:TN:90:PHE:HB3	1.76	0.68
8:UA:316:CYS:HB3	8:UA:378:LEU:HB2	1.75	0.68
8:UI:292:THR:HG21	8:UI:331:ALA:HB1	1.76	0.68
8:UM:315:CYS:HB3	8:UM:377:MET:HE1	1.75	0.68
30:V2:365:LEU:HD12	30:V2:368:ILE:HD11	1.76	0.68
35:XC:101:ARG:NH2	35:XC:116:PRO:O	2.27	0.68
31:Y:424:LEU:HD13	31:Y:458:LEU:HB3	1.76	0.68
31:Y:492:GLU:HB3	31:Y:495:LYS:HD3	1.76	0.68
43:h:189:SER:HB3	43:h:192:GLU:HB3	1.76	0.68
1:7:53:ARG:HD3	9:JD:216:LYS:HG3	1.76	0.68
9:AL:283:ALA:HB2	9:ML:54:ALA:HA	1.76	0.68
8:AO:40:LYS:HE3	8:AO:42:ILE:CD1	2.24	0.68
9:BD:360:GLY:H	17:I:268:THR:HG23	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CG:437:VAL:O	9:CH:391:ARG:NH2	2.25	0.68
9:CP:256:ASN:HD21	8:CQ:181:VAL:H	1.41	0.68
9:CP:372:THR:HA	9:CP:422:TYR:HE1	1.58	0.68
14:D2:116:GLU:OE1	14:D2:119:ARG:NH1	2.26	0.68
14:D4:360:ARG:HE	14:D4:374:GLN:HE22	1.42	0.68
8:DM:50:ASN:O	8:DM:64:ARG:NH1	2.27	0.68
9:ED:14:ASN:ND2	9:ED:67:ASP:OD2	2.27	0.68
9:FH:256:ASN:HD21	8:FI:181:VAL:H	1.42	0.68
8:GA:88:HIS:HA	8:HA:283:HIS:HE1	1.59	0.68
8:HM:123:ARG:NH2	8:IM:293:ASN:OD1	2.27	0.68
8:IE:134:GLY:HA2	8:IE:165:SER:O	1.93	0.68
8:IK:91:GLN:HG3	8:IK:121:ARG:HD3	1.74	0.68
8:IO:324:VAL:HG12	8:IO:326:LYS:H	1.57	0.68
9:JB:132:GLY:HA2	9:JB:162:ARG:HG3	1.76	0.68
9:JD:157:GLU:N	9:JD:157:GLU:OE1	2.27	0.68
8:JQ:230:LEU:O	8:JQ:234:ILE:HD12	1.94	0.68
9:KF:170:VAL:HG11	9:KF:377:LEU:HD11	1.74	0.68
9:KH:136:THR:HG22	9:KH:167:PHE:HB2	1.76	0.68
8:LO:269:LEU:HD22	8:LO:303:VAL:HG21	1.75	0.68
9:ND:120:VAL:HG12	9:ND:121:ARG:HH21	1.58	0.68
9:OL:358:PRO:HG2	9:OL:361:LEU:HB3	1.76	0.68
8:PM:121:ARG:HA	8:PM:124:LYS:HE2	1.76	0.68
8:UE:134:GLY:HA3	8:UE:165:SER:O	1.94	0.68
9:UF:198:GLU:HA	9:UF:264:HIS:HB2	1.75	0.68
30:V1:134:MET:O	30:V1:138:THR:OG1	2.10	0.68
8:VC:53:PHE:O	8:VC:64:ARG:NH2	2.26	0.68
9:VL:48:ASN:O	9:VL:62:ARG:NH2	2.27	0.68
33:X4:135:THR:HG21	33:X4:174:PHE:CD2	2.29	0.68
37:YD:146:ARG:HG3	37:YD:205:ILE:HD11	1.74	0.68
39:c:368:GLU:HA	39:c:371:ARG:HB3	1.74	0.68
9:AF:330:MET:HB3	9:AF:349:VAL:HG21	1.76	0.67
9:BB:130:LEU:O	9:BB:162:ARG:NH1	2.27	0.67
9:BB:147:MET:SD	9:BB:147:MET:N	2.65	0.67
8:BE:402:ARG:NH2	8:BE:415:GLU:OE2	2.27	0.67
9:BP:218:THR:OG1	31:Z:121:ILE:O	2.10	0.67
9:DD:8:GLN:HE21	9:DD:14:ASN:HA	1.59	0.67
8:DK:203:MET:H	8:DK:203:MET:HE3	1.59	0.67
9:GD:375:GLN:HB3	9:GD:422:TYR:CE1	2.28	0.67
9:GN:324:LYS:HB2	8:GO:210:TYR:HE1	1.59	0.67
8:HK:90:GLU:HG2	8:IK:280:LYS:HZ3	1.58	0.67
8:IG:352:LYS:HZ1	9:IH:179:VAL:H	1.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IM:427:ALA:HA	8:IM:430:LYS:HD3	1.76	0.67
8:JC:2:ARG:HH22	9:JD:71:GLY:HA3	1.58	0.67
8:KA:50:ASN:O	8:KA:64:ARG:NH1	2.27	0.67
8:KA:99:ALA:HA	8:KA:105:ARG:HE	1.58	0.67
8:KA:172:TYR:CD1	8:KA:173:PRO:HD2	2.29	0.67
8:KO:259:LEU:HD21	8:KO:268:PRO:HG3	1.74	0.67
8:NM:53:PHE:CB	8:NM:61:HIS:CD2	2.78	0.67
9:OB:20:PHE:CE2	9:OB:230:SER:HA	2.29	0.67
8:OC:217:LEU:HD12	8:OC:367:ASP:OD1	1.94	0.67
8:OG:311:LYS:HG3	8:OG:344:VAL:HG12	1.75	0.67
28:Q3:48:ARG:NH1	12:S7:306:ASP:OD2	2.27	0.67
9:QF:385:PHE:HA	9:QF:388:MET:HE2	1.77	0.67
8:QI:239:THR:OG1	8:QI:243:ARG:NH1	2.27	0.67
12:S2:415:MET:HA	12:S2:418:LEU:HD12	1.76	0.67
8:SC:169:PHE:HA	8:SC:202:PHE:HB2	1.75	0.67
14:T2:308:CYS:SG	14:T2:427:ARG:NH2	2.65	0.67
25:U:32:ASN:OD1	25:U:33:TYR:N	2.27	0.67
30:U2:201:ARG:HH11	30:U2:206:LEU:HA	1.59	0.67
8:UC:18:ASN:HA	8:UC:21:TRP:HB2	1.77	0.67
9:WH:49:VAL:HG21	9:WH:241:ARG:HG2	1.76	0.67
44:h1:43:PRO:HB3	44:h1:95:ARG:HD2	1.75	0.67
3:3:88:GLN:OE1	18:I1:114:ARG:NH2	2.27	0.67
4:6:118:LYS:HB2	4:6:223:ALA:HA	1.76	0.67
9:AJ:334:GLN:HE22	9:AJ:348:ASN:HD22	1.43	0.67
8:BK:217:LEU:HD11	8:BK:275:VAL:HG22	1.75	0.67
9:DF:156:ARG:HH11	9:DF:164:MET:HE2	1.59	0.67
9:EB:44:LEU:O	17:Z2:214:GLN:NE2	2.26	0.67
9:EF:299:MET:N	9:EF:299:MET:SD	2.68	0.67
9:GH:257:MET:HE3	9:GH:314:ALA:HB2	1.75	0.67
8:GI:27:GLU:OE2	8:GI:243:ARG:NH2	2.28	0.67
8:HC:392:ASP:O	8:HC:422:ARG:NH2	2.27	0.67
8:JC:89:PRO:HD2	8:KA:280:LYS:HZ1	1.59	0.67
9:JD:316:VAL:HG22	9:JD:352:ALA:HB3	1.75	0.67
8:JO:385:ALA:HA	8:JO:388:TRP:HD1	1.59	0.67
8:MA:316:CYS:HB3	8:MA:378:LEU:HB2	1.75	0.67
8:NK:33:ASP:O	8:NK:60:LYS:NZ	2.27	0.67
9:OJ:334:GLN:HE22	9:OJ:348:ASN:HD22	1.41	0.67
9:OL:306:ARG:HG3	36:Y5:240:ILE:HG12	1.75	0.67
8:PC:275:VAL:HA	8:PC:368:LEU:HD21	1.75	0.67
9:RJ:198:GLU:HA	9:RJ:264:HIS:HB2	1.76	0.67
9:SF:165:ASN:HD21	9:SF:250:LEU:HD21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T1:100:THR:HG22	14:T2:356:ARG:HH22	1.57	0.67
14:T2:80:GLU:OE1	14:T3:394:LYS:NZ	2.22	0.67
9:TF:1:MET:SD	9:TF:2:ARG:N	2.67	0.67
9:TH:68:LEU:HB3	9:TH:96:GLY:HA2	1.76	0.67
9:TJ:69:GLU:HG2	9:TJ:71:GLY:H	1.58	0.67
9:UB:299:MET:SD	9:UB:300:MET:N	2.68	0.67
9:UJ:48:ASN:O	9:UJ:62:ARG:NH2	2.27	0.67
9:UL:324:LYS:HE3	8:UM:210:TYR:CD1	2.29	0.67
8:VK:50:ASN:O	8:VK:64:ARG:NH1	2.27	0.67
9:VL:1:MET:HE3	8:VM:72:PRO:HG3	1.75	0.67
8:VO:271:THR:HB	8:VO:377:MET:HB3	1.76	0.67
36:Y1:100:THR:HG22	36:Y1:101:PRO:HD2	1.77	0.67
41:b2:401:TYR:HB2	41:b3:126:VAL:HG22	1.77	0.67
9:BD:273:LEU:O	9:BD:292:GLN:NE2	2.27	0.67
9:BJ:173:PRO:HG2	9:BJ:174:LYS:HD2	1.76	0.67
12:C4:283:TYR:HD2	12:C5:397:GLN:HE22	1.42	0.67
8:DE:154:MET:HA	8:DE:157:LEU:HB2	1.74	0.67
9:DF:165:ASN:HB2	9:DF:200:TYR:HE2	1.59	0.67
8:EM:292:THR:HG21	8:EM:331:ALA:HB1	1.76	0.67
9:GF:68:LEU:HB3	9:GF:96:GLY:HA2	1.76	0.67
9:GN:134:GLN:NE2	9:GN:233:MET:SD	2.67	0.67
9:IH:178:THR:HB	9:IH:181:GLU:HG2	1.75	0.67
9:JB:267:MET:HE2	9:JB:299:MET:HE3	1.76	0.67
9:JF:48:ASN:O	9:JF:62:ARG:NH2	2.27	0.67
8:JG:265:ILE:HG12	8:JG:432:TYR:CE2	2.30	0.67
8:JI:133:GLN:HG2	8:JI:252:LEU:HD13	1.77	0.67
8:JI:165:SER:HB3	8:JI:256:GLN:HE22	1.58	0.67
9:JL:130:LEU:O	9:JL:162:ARG:NH1	2.28	0.67
9:KH:48:ASN:O	9:KH:62:ARG:NH2	2.28	0.67
9:KJ:165:ASN:ND2	9:KJ:200:TYR:OH	2.27	0.67
9:LL:5:VAL:HG22	9:LL:62:ARG:HD2	1.76	0.67
8:LO:172:TYR:HB2	8:LO:203:MET:HB3	1.76	0.67
8:MI:292:THR:HG21	8:MI:331:ALA:HB1	1.76	0.67
6:N1:24:ASP:HB3	6:N1:27:ARG:HH21	1.58	0.67
8:NK:8:HIS:HE1	8:NK:65:ALA:HB1	1.59	0.67
8:NM:53:PHE:HB3	8:NM:61:HIS:CG	2.28	0.67
8:OA:259:LEU:HD12	8:OA:260:VAL:HG23	1.77	0.67
8:OG:121:ARG:NH2	8:OG:124:LYS:HD2	2.09	0.67
8:PC:50:ASN:O	8:PC:64:ARG:NH1	2.28	0.67
9:PN:322:SER:OG	8:PO:221:ARG:NH2	2.27	0.67
28:Q3:52:THR:HG1	28:Q3:59:ALA:H	1.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QF:324:LYS:HB2	8:QG:221:ARG:HH12	1.60	0.67
8:QK:203:MET:H	8:QK:203:MET:HE3	1.58	0.67
9:QL:309:ARG:H	9:QL:372:THR:HB	1.60	0.67
8:QO:172:TYR:N	8:QO:204:VAL:O	2.28	0.67
11:R4:413:ARG:HG2	11:R4:413:ARG:NH1	2.05	0.67
9:RH:8:GLN:HE22	9:RH:63:ALA:HB1	1.59	0.67
12:S2:329:LEU:HB3	12:S2:486:LEU:HD11	1.75	0.67
14:T1:207:HIS:HE1	14:T1:267:ARG:HG2	1.59	0.67
8:UM:320:ARG:HD3	8:UM:360:PRO:HG3	1.76	0.67
8:WC:339:ARG:O	8:WC:339:ARG:NE	2.22	0.67
9:WF:299:MET:HG3	9:WF:301:ALA:H	1.59	0.67
36:Y4:147:VAL:HB	36:Y4:155:LYS:HD2	1.75	0.67
42:f:468:ARG:HG2	42:f:510:TYR:H	1.59	0.67
1:0:32:SER:OG	9:IN:88:ASP:OD1	2.13	0.67
1:7:52:HIS:HA	1:7:55:ARG:HE	1.59	0.67
7:A3:275:ARG:NH2	7:A3:276:ASN:OD1	2.28	0.67
8:AM:288:VAL:HG21	8:AM:327:ASP:HB3	1.74	0.67
9:BB:38:GLY:O	17:H:315:ARG:NH2	2.28	0.67
8:BO:231:ILE:HA	8:BO:234:ILE:HD12	1.75	0.67
14:D1:106:ARG:NH2	14:D2:369:CYS:SG	2.67	0.67
14:D1:116:GLU:OE1	14:D1:119:ARG:NH1	2.26	0.67
8:DG:84:ARG:HH11	17:J:59:MET:HE1	1.58	0.67
9:ED:363:MET:HE3	9:ED:364:SER:H	1.58	0.67
9:FB:302:ALA:HB3	9:FB:377:LEU:HD11	1.76	0.67
8:FO:317:MET:HE1	8:FO:377:MET:HB2	1.74	0.67
9:GH:48:ASN:O	9:GH:62:ARG:NH2	2.25	0.67
8:GO:269:LEU:HD21	8:GO:384:ILE:HG12	1.75	0.67
9:IF:330:MET:HB3	9:IF:349:VAL:HG11	1.77	0.67
8:IK:68:VAL:HG12	8:IK:93:ILE:HB	1.76	0.67
8:IO:132:LEU:HD21	8:IO:135:PHE:HE2	1.59	0.67
9:JF:215:LEU:HG	9:JF:217:LEU:HG	1.76	0.67
8:JI:50:ASN:O	8:JI:64:ARG:NH1	2.27	0.67
8:LK:53:PHE:O	8:LK:64:ARG:NH1	2.28	0.67
9:MB:68:LEU:HB3	9:MB:96:GLY:HA2	1.76	0.67
9:MF:156:ARG:HG3	9:MF:195:ASN:HB2	1.77	0.67
8:MO:316:CYS:HB3	8:MO:378:LEU:HB2	1.77	0.67
8:NM:213:CYS:HA	8:NM:217:LEU:HD13	1.75	0.67
8:OM:219:ILE:HB	8:OM:222:PRO:HG3	1.76	0.67
27:P4:18:GLN:HB3	27:P4:22:MET:HE2	1.77	0.67
11:R1:330:CYS:SG	11:R2:67:ARG:NH2	2.68	0.67
9:SD:2:ARG:HH22	8:SE:73:THR:HG22	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TE:320:ARG:HD3	8:TE:360:PRO:HG3	1.76	0.67
8:VG:203:MET:SD	8:VG:203:MET:N	2.65	0.67
8:VK:173:PRO:O	8:VK:390:ARG:NH2	2.27	0.67
35:XH:164:ARG:NH2	35:XH:180:GLU:O	2.27	0.67
37:YA:44:GLY:HA2	37:YA:47:LYS:HE3	1.75	0.67
37:YB:187:MET:HG3	37:YB:205:ILE:HB	1.75	0.67
37:YH:218:ARG:NH2	37:YH:238:CYS:SG	2.68	0.67
40:a2:70:CYS:SG	40:a2:71:SER:N	2.66	0.67
8:AK:423:GLU:OE2	35:XF:104:ARG:NH1	2.27	0.67
8:BO:50:ASN:O	8:BO:64:ARG:NH1	2.27	0.67
14:D2:40:GLY:O	14:D2:47:ARG:NH1	2.28	0.67
8:GK:320:ARG:HD3	8:GK:360:PRO:HG3	1.75	0.67
17:H:246:ASP:O	17:H:250:ASN:ND2	2.28	0.67
9:HN:211:CYS:HA	9:HN:215:LEU:HB2	1.77	0.67
8:HO:1:MET:SD	8:HO:2:ARG:NH2	2.68	0.67
9:ID:268:PRO:HG2	9:ID:300:MET:HB2	1.76	0.67
8:IG:50:ASN:O	8:IG:64:ARG:NH1	2.27	0.67
9:IN:212:PHE:HB3	9:IN:213:ARG:HE	1.58	0.67
8:LC:254:GLU:HG2	9:LD:98:GLY:HA2	1.77	0.67
9:LD:170:VAL:HG21	9:LD:377:LEU:HD21	1.77	0.67
9:LD:317:PHE:HB3	9:LD:321:MET:HE1	1.77	0.67
9:MF:8:GLN:NE2	9:MF:13:GLY:O	2.26	0.67
8:MM:254:GLU:HG2	9:MN:98:GLY:HA2	1.75	0.67
8:NO:132:LEU:HD23	8:NO:164:LYS:HG3	1.74	0.67
25:O5:502:ARG:NH1	31:Z:644:TYR:O	2.25	0.67
9:OB:335:ASN:O	9:OB:338:SER:OG	2.13	0.67
9:OD:314:ALA:HB3	9:OD:368:ILE:HB	1.75	0.67
8:OG:322:ASP:O	8:OG:373:ARG:NH1	2.26	0.67
8:OO:151:SER:HA	8:OO:193:THR:HG21	1.77	0.67
9:QL:372:THR:HA	9:QL:422:TYR:HE1	1.60	0.67
11:R4:118:THR:O	14:T1:409:ARG:NH2	2.28	0.67
9:RD:379:LYS:HD3	9:RD:419:VAL:HG21	1.77	0.67
8:TC:320:ARG:HD3	8:TC:360:PRO:HG3	1.77	0.67
8:TM:326:LYS:HG3	9:TN:220:PRO:HD2	1.77	0.67
8:VE:254:GLU:O	8:VE:258:ASN:ND2	2.24	0.67
30:W5:143:GLY:HA3	30:W5:145:ARG:HH21	1.59	0.67
9:WL:372:THR:HA	9:WL:422:TYR:HE1	1.58	0.67
8:WM:50:ASN:O	8:WM:64:ARG:NH1	2.27	0.67
42:g:484:THR:HA	42:g:499:ILE:O	1.94	0.67
11:B4:193:ASN:ND2	11:B4:196:SER:OG	2.28	0.67
8:BC:357:TYR:CD2	31:W:207:VAL:HB	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BI:151:SER:HA	8:BI:193:THR:HG21	1.76	0.67
9:BN:359:ARG:HH22	17:N:268:THR:HA	1.60	0.67
8:DE:402:ARG:HD3	8:DE:405:VAL:HG21	1.75	0.67
9:DJ:170:VAL:HG11	9:DJ:377:LEU:HD21	1.76	0.67
9:DN:323:MET:N	9:DN:323:MET:SD	2.68	0.67
8:EI:50:ASN:O	8:EI:64:ARG:NH1	2.28	0.67
8:FE:437:VAL:O	9:FF:391:ARG:NH2	2.27	0.67
8:FK:147:SER:OG	8:FK:190:THR:OG1	2.10	0.67
9:HD:313:VAL:HG13	9:HD:367:PHE:HE1	1.59	0.67
9:ID:7:LEU:HB2	9:ID:135:LEU:HB2	1.77	0.67
8:IE:326:LYS:HD3	9:IF:220:PRO:HD2	1.77	0.67
8:JG:138:PHE:HZ	8:JG:235:VAL:HG11	1.59	0.67
8:JM:277:SER:OG	8:JM:280:LYS:NZ	2.27	0.67
8:JM:324:VAL:HG12	8:JM:326:LYS:H	1.59	0.67
8:LI:360:PRO:O	8:LI:370:LYS:NZ	2.26	0.67
9:LP:48:ASN:O	9:LP:62:ARG:NH2	2.27	0.67
9:NH:213:ARG:NH2	9:NH:297:LYS:HD2	2.10	0.67
9:NN:259:PRO:HD2	9:NN:263:LEU:HD11	1.77	0.67
9:OF:204:ASN:HA	9:OF:207:LEU:HD13	1.75	0.67
9:OF:296:ALA:HA	9:OF:299:MET:HE3	1.77	0.67
9:OH:306:ARG:NH1	36:Y4:89:ILE:HG22	2.10	0.67
9:PF:48:ASN:O	9:PF:62:ARG:NH2	2.28	0.67
9:PH:372:THR:HA	9:PH:422:TYR:HE1	1.59	0.67
8:PK:50:ASN:O	8:PK:64:ARG:NH1	2.28	0.67
9:PL:314:ALA:HB3	9:PL:368:ILE:HB	1.75	0.67
9:QN:165:ASN:HB3	9:QN:200:TYR:HE2	1.60	0.67
9:SD:198:GLU:HA	9:SD:264:HIS:HB2	1.77	0.67
8:SI:30:ILE:HG13	8:SI:36:MET:HE1	1.77	0.67
9:TF:198:GLU:HA	9:TF:264:HIS:HB2	1.75	0.67
30:W6:120:SER:HA	30:W6:123:ILE:HG12	1.76	0.67
34:X7:16:ARG:HG3	34:X7:18:ILE:HD11	1.77	0.67
36:Y4:105:ASP:OD1	36:Y4:106:TYR:N	2.27	0.67
37:YE:182:ASN:ND2	37:YE:231:MET:O	2.27	0.67
41:b4:144:GLN:HG2	41:b4:234:LEU:HB3	1.75	0.67
3:3:386:ARG:NH1	8:GC:322:ASP:OD1	2.28	0.67
8:AC:286:LEU:O	8:AC:373:ARG:NH1	2.28	0.67
11:B3:90:ASP:OD2	28:Q3:110:THR:OG1	2.11	0.67
9:BB:372:THR:HA	9:BB:422:TYR:HE1	1.59	0.67
8:EC:1:MET:SD	8:EC:2:ARG:N	2.67	0.67
8:EM:203:MET:N	8:EM:203:MET:SD	2.67	0.67
9:GL:48:ASN:O	9:GL:62:ARG:NH2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HI:203:MET:SD	8:HI:203:MET:N	2.65	0.67
9:HJ:345:ILE:HG23	8:HK:398:MET:HE1	1.77	0.67
9:ML:245:GLN:O	8:MM:11:GLN:NE2	2.28	0.67
8:NK:219:ILE:HB	8:NK:222:PRO:HG3	1.76	0.67
9:NL:198:GLU:HA	9:NL:264:HIS:HB2	1.76	0.67
9:NN:54:ALA:HB3	9:NN:58:LYS:HB3	1.76	0.67
17:O7:207:LEU:HD13	17:O7:252:PHE:HB2	1.76	0.67
9:OL:273:LEU:O	9:OL:292:GLN:NE2	2.27	0.67
12:S4:178:LYS:HD3	12:S4:179:ARG:HD2	1.76	0.67
9:SH:201:CYS:HB2	9:SH:267:MET:HE1	1.74	0.67
9:SJ:8:GLN:HB3	9:SJ:65:LEU:HA	1.77	0.67
9:TJ:198:GLU:HB2	9:TJ:266:PHE:HE1	1.58	0.67
8:UA:60:LYS:NZ	8:VA:282:TYR:O	2.28	0.67
8:UE:24:TYR:O	8:UE:28:HIS:ND1	2.25	0.67
9:UJ:7:LEU:HG	9:UJ:135:LEU:HD13	1.75	0.67
31:W:97:PHE:HB2	31:W:195:PRO:HG2	1.74	0.67
3:3:161:CYS:HA	26:P2:5:ASN:HD21	1.60	0.67
8:AC:172:TYR:HB2	8:AC:203:MET:HB2	1.75	0.67
8:BK:382:THR:HA	8:BK:432:TYR:CE2	2.29	0.67
12:C3:287:VAL:HA	12:C3:290:VAL:HG12	1.76	0.67
14:D3:232:THR:HG23	14:D3:234:GLU:H	1.59	0.67
8:EK:292:THR:HG21	8:EK:331:ALA:HB1	1.77	0.67
8:GA:248:LEU:HA	9:GB:11:GLN:HE22	1.60	0.67
8:GK:247:ALA:HB3	8:GK:355:ILE:HD11	1.75	0.67
9:HB:1:MET:N	9:HB:3:GLU:OE1	2.27	0.67
8:HE:151:SER:HB3	8:HE:193:THR:HG21	1.77	0.67
9:HP:31:ASP:OD1	9:HP:35:THR:N	2.27	0.67
9:HP:178:THR:HG23	9:HP:181:GLU:HB3	1.75	0.67
8:LA:231:ILE:HA	8:LA:234:ILE:HD12	1.74	0.67
8:LA:297:GLU:O	8:LA:301:GLN:NE2	2.27	0.67
9:LL:318:ARG:HG2	9:LL:358:PRO:HD3	1.75	0.67
9:LP:371:SER:O	9:LP:422:TYR:OH	2.11	0.67
8:ME:437:VAL:O	9:MF:391:ARG:NH2	2.27	0.67
8:SM:56:THR:HA	8:TM:285:GLN:HB2	1.76	0.67
8:TC:68:VAL:HG12	8:TC:93:ILE:HB	1.77	0.67
8:TC:229:ARG:HE	8:TC:367:ASP:H	1.42	0.67
25:U:410:VAL:O	25:U:414:MET:HG2	1.95	0.67
8:UO:3:GLU:H	8:UO:133:GLN:HG2	1.59	0.67
9:VB:403:MET:SD	9:VB:403:MET:N	2.66	0.67
9:WB:299:MET:HE1	9:WB:305:PRO:HG3	1.76	0.67
9:WN:276:ARG:NH1	9:WN:276:ARG:O	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X5:104:PRO:HA	31:Z:65:GLY:HA3	1.75	0.67
41:b3:391:GLU:OE2	41:b3:391:GLU:N	2.26	0.67
46:i2:1438:SER:HA	46:i2:1441:LEU:HD12	1.75	0.67
46:i3:1401:GLN:HG2	46:i3:1405:LEU:HB3	1.76	0.67
4:j1:57:HIS:HA	4:j1:65:PHE:H	1.59	0.67
3:3:309:LEU:HD11	9:GF:362:LYS:HD2	1.77	0.67
7:A2:329:CYS:SG	7:A3:66:ARG:NH2	2.68	0.67
8:AI:396:ASP:OD1	35:XE:53:ASN:ND2	2.28	0.67
8:CQ:50:ASN:O	8:CQ:64:ARG:NH1	2.28	0.67
9:EH:48:ASN:O	9:EH:62:ARG:NH2	2.26	0.67
9:FF:136:THR:HG22	9:FF:167:PHE:HB2	1.77	0.67
8:FM:50:ASN:O	8:FM:64:ARG:NH1	2.28	0.67
9:FN:1:MET:N	9:FN:128:ASP:OD1	2.24	0.67
16:G:101:ASN:OD1	9:HL:306:ARG:NH2	2.28	0.67
8:HA:151:SER:HA	8:HA:193:THR:HG21	1.77	0.67
8:HC:320:ARG:HD3	8:HC:360:PRO:HG3	1.76	0.67
8:HO:50:ASN:O	8:HO:64:ARG:NH1	2.27	0.67
19:J4:86:GLY:HA2	8:OK:286:LEU:H	1.60	0.67
19:J5:33:ARG:HB2	19:J5:78:LEU:HB3	1.77	0.67
9:JH:325:GLU:O	9:JH:329:GLN:NE2	2.28	0.67
9:KJ:167:PHE:CE1	9:KJ:233:MET:HB3	2.29	0.67
8:LK:123:ARG:NH2	8:LK:160:ASP:OD2	2.27	0.67
8:NE:325:PRO:HA	8:NE:328:VAL:HB	1.75	0.67
9:NL:238:THR:HG21	9:NL:318:ARG:HD2	1.75	0.67
9:PB:372:THR:HA	9:PB:422:TYR:HE1	1.58	0.67
8:PM:50:ASN:O	8:PM:64:ARG:NH1	2.28	0.67
9:PN:87:PRO:HD3	9:QN:281:TYR:CE2	2.30	0.67
9:PP:228:LEU:HD23	9:PP:300:MET:HE1	1.75	0.67
9:QB:252:LYS:NZ	50:QC:501:GTP:O3G	2.28	0.67
9:QD:325:GLU:H	8:QE:221:ARG:HH12	1.41	0.67
8:RE:179:THR:HG1	50:RE:501:GTP:HO3'	1.42	0.67
12:S4:484:LEU:HG	30:V5:358:GLN:HE21	1.59	0.67
8:SC:154:MET:HE1	8:SC:168:GLU:OE1	1.95	0.67
9:TN:358:PRO:HG2	9:TN:361:LEU:HB3	1.77	0.67
8:UC:3:GLU:H	8:UC:133:GLN:HG2	1.60	0.67
9:UD:48:ASN:O	9:UD:62:ARG:NH2	2.28	0.67
9:UN:215:LEU:HD21	9:UN:273:LEU:HD22	1.77	0.67
8:VC:56:THR:HG23	8:VC:58:ALA:H	1.59	0.67
9:VH:152:ILE:HG13	9:VH:164:MET:HE3	1.76	0.67
9:VH:237:THR:HA	9:VH:240:LEU:HD13	1.76	0.67
8:VI:229:ARG:HE	8:VI:363:VAL:HG21	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WJ:362:LYS:HG2	9:WJ:363:MET:HG2	1.77	0.67
35:XF:91:VAL:HG22	35:XF:154:VAL:HG12	1.77	0.67
37:YG:214:GLU:HB3	37:YG:218:ARG:HH21	1.59	0.67
39:a:117:GLN:HA	43:j:203:ASN:HD21	1.58	0.67
9:AD:37:HIS:HB2	17:I:255:ARG:HH22	1.60	0.67
8:AM:276:ILE:HG13	8:AM:281:ALA:HB2	1.75	0.67
11:B1:173:ASN:OD1	28:Q1:126:GLN:NE2	2.27	0.67
12:C1:224:ASP:OD2	17:O8:95:TYR:OH	2.13	0.67
8:CI:50:ASN:O	8:CI:64:ARG:NH1	2.28	0.67
9:DN:48:ASN:O	9:DN:62:ARG:NH2	2.28	0.67
9:EN:358:PRO:HG2	9:EN:361:LEU:HB3	1.77	0.67
8:FM:437:VAL:O	9:FN:391:ARG:NH2	2.27	0.67
9:GH:358:PRO:HG2	9:GH:361:LEU:HB3	1.77	0.67
8:GO:1:MET:SD	8:GO:2:ARG:N	2.68	0.67
9:HH:252:LYS:NZ	50:HI:501:GTP:O3G	2.28	0.67
9:IH:238:THR:OG1	9:IH:318:ARG:NH1	2.28	0.67
8:IM:271:THR:HB	8:IM:377:MET:HB3	1.76	0.67
8:JI:262:TYR:OH	9:JJ:391:ARG:O	2.13	0.67
9:LJ:67:ASP:O	9:LJ:92:PHE:HA	1.95	0.67
22:M1:193:ASP:OD1	22:M1:194:LEU:N	2.28	0.67
8:NI:3:GLU:HA	8:NI:51:THR:HA	1.77	0.67
8:OG:1:MET:SD	8:OG:2:ARG:NH1	2.68	0.67
8:PO:50:ASN:O	8:PO:64:ARG:NH1	2.28	0.67
9:TL:372:THR:HA	9:TL:422:TYR:HE1	1.59	0.67
8:TM:320:ARG:HD3	8:TM:360:PRO:HG3	1.77	0.67
30:U6:378:LEU:HD21	30:U6:434:LEU:HA	1.76	0.67
8:VG:292:THR:HG21	8:VG:331:ALA:HB1	1.76	0.67
30:W0:311:ARG:O	30:W0:314:SER:N	2.28	0.67
8:WC:239:THR:OG1	8:WC:243:ARG:NH1	2.27	0.67
9:WN:372:THR:HA	9:WN:422:TYR:HE1	1.59	0.67
46:i3:1436:PHE:HB2	46:i3:1492:HIS:HB3	1.75	0.67
10:B:102:HIS:CD2	9:HH:33:THR:HG21	2.29	0.66
9:BP:221:THR:HG23	9:BP:223:GLY:H	1.60	0.66
9:CD:321:MET:HA	9:CD:321:MET:HE3	1.75	0.66
8:CK:79:ARG:NH2	8:CK:92:LEU:O	2.28	0.66
9:FD:256:ASN:HD21	8:FE:181:VAL:H	1.43	0.66
9:FL:5:VAL:HG22	9:FL:62:ARG:HD2	1.78	0.66
8:FO:104:ALA:HB2	8:FO:413:MET:HE2	1.76	0.66
9:GN:372:THR:HA	9:GN:422:TYR:HE1	1.59	0.66
17:H:226:PRO:HD2	17:H:244:MET:HE1	1.75	0.66
9:IL:63:ALA:O	9:IL:89:ASN:ND2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JB:113:VAL:HG13	9:JB:147:MET:HE1	1.78	0.66
9:JF:372:THR:HA	9:JF:422:TYR:HE1	1.59	0.66
9:LF:318:ARG:HG2	9:LF:358:PRO:HD3	1.76	0.66
8:LO:7:ILE:HB	8:LO:137:ILE:HG23	1.77	0.66
8:MG:194:THR:O	8:MG:266:HIS:NE2	2.27	0.66
9:MP:337:ASN:HB3	9:MP:340:TYR:HD2	1.60	0.66
9:NL:238:THR:OG1	9:NL:318:ARG:NH1	2.27	0.66
24:O2:146:ASN:ND2	24:O2:174:LEU:O	2.29	0.66
9:OJ:207:LEU:HD23	9:OJ:300:MET:HE2	1.75	0.66
8:PO:275:VAL:HA	8:PO:368:LEU:HD11	1.76	0.66
28:Q3:142:ARG:HE	28:Q3:144:ILE:HD11	1.60	0.66
8:QC:239:THR:OG1	8:QC:243:ARG:NH1	2.28	0.66
9:RD:198:GLU:HA	9:RD:264:HIS:HB2	1.76	0.66
9:SF:48:ASN:O	9:SF:62:ARG:NH2	2.28	0.66
8:TC:233:GLN:HB3	8:TC:272:TYR:HE2	1.58	0.66
8:TI:320:ARG:HD3	8:TI:360:PRO:HG3	1.77	0.66
8:UE:348:PRO:HD2	9:UF:388:MET:HE1	1.77	0.66
8:VC:39:ASP:OD2	8:VC:41:THR:OG1	2.11	0.66
8:VI:133:GLN:HE21	8:VI:252:LEU:HB2	1.59	0.66
9:VN:164:MET:HE1	9:VN:196:THR:HA	1.77	0.66
8:WA:171:ILE:HD13	8:WA:204:VAL:HG23	1.76	0.66
9:WJ:330:MET:HE3	9:WJ:331:LEU:HD22	1.75	0.66
34:X8:6:LEU:HD13	34:X8:81:VAL:HG23	1.76	0.66
34:X8:96:ASP:HA	34:X8:142:LEU:HA	1.77	0.66
11:B4:400:PRO:HG3	28:Q4:86:PRO:HG3	1.77	0.66
9:BD:282:ARG:NH2	9:BD:292:GLN:OE1	2.28	0.66
10:C:366:GLN:HG3	10:C:369:LYS:HE2	1.77	0.66
10:C:392:MET:SD	10:C:396:LYS:NZ	2.67	0.66
12:C4:248:ARG:HB2	11:R4:416:ASN:HB3	1.76	0.66
9:EN:372:THR:HA	9:EN:422:TYR:HE1	1.59	0.66
8:FK:50:ASN:O	8:FK:64:ARG:NH1	2.26	0.66
9:GF:198:GLU:HG3	9:GF:266:PHE:CE1	2.30	0.66
8:HC:70:LEU:HD12	8:HC:95:GLY:HA3	1.78	0.66
8:HI:26:LEU:HD12	8:HI:363:VAL:HG12	1.77	0.66
8:HO:7:ILE:HB	8:HO:137:ILE:HG22	1.77	0.66
9:IP:8:GLN:HE21	9:IP:14:ASN:HA	1.60	0.66
9:JD:156:ARG:HG3	9:JD:195:ASN:HB2	1.77	0.66
8:JQ:385:ALA:HA	8:JQ:388:TRP:HE3	1.59	0.66
9:MH:274:THR:OG1	9:MH:279:GLN:NE2	2.28	0.66
8:MK:311:LYS:H	8:MK:382:THR:HG22	1.60	0.66
8:NA:239:THR:OG1	8:NA:243:ARG:NH1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NI:239:THR:OG1	8:NI:243:ARG:NH1	2.28	0.66
9:NN:238:THR:HA	9:NN:241:ARG:HE	1.60	0.66
8:OA:70:LEU:HB3	8:OA:98:ASP:HA	1.76	0.66
27:P5:171:ARG:HA	11:R3:23:LEU:HD11	1.76	0.66
8:PI:50:ASN:O	8:PI:64:ARG:NH1	2.28	0.66
8:PO:86:LEU:O	8:QO:283:HIS:NE2	2.28	0.66
8:PO:269:LEU:HD22	8:PO:303:VAL:HG21	1.77	0.66
9:QD:325:GLU:O	9:QD:329:GLN:HG3	1.96	0.66
9:RN:256:ASN:HD21	8:RO:181:VAL:H	1.44	0.66
12:S4:337:TRP:CD1	12:S4:341:ASN:HD21	2.13	0.66
8:SA:289:ALA:O	8:SA:293:ASN:ND2	2.28	0.66
9:SD:257:MET:SD	9:SD:312:THR:OG1	2.52	0.66
9:TF:372:THR:HA	9:TF:422:TYR:HE1	1.60	0.66
9:TJ:372:THR:HA	9:TJ:422:TYR:HE1	1.60	0.66
9:TL:48:ASN:O	9:TL:62:ARG:NH2	2.28	0.66
30:U8:110:ARG:NH2	30:U9:363:LYS:O	2.29	0.66
9:VD:48:ASN:O	9:VD:62:ARG:NH2	2.29	0.66
8:VO:213:CYS:HA	8:VO:217:LEU:HD23	1.76	0.66
9:WL:322:SER:OG	8:WM:222:PRO:O	2.12	0.66
9:WN:313:VAL:HB	9:WN:349:VAL:HG22	1.77	0.66
9:WN:331:LEU:HD21	8:WO:177:VAL:HA	1.75	0.66
9:WP:132:GLY:HA3	9:WP:163:ILE:O	1.95	0.66
41:b4:411:GLU:HG3	41:b5:118:ARG:HB3	1.76	0.66
47:o:160:LYS:HG3	47:p:483:TYR:CZ	2.30	0.66
3:3:335:MET:HE1	8:FE:58:ALA:HA	1.77	0.66
8:AC:316:CYS:HB3	8:AC:378:LEU:HB2	1.77	0.66
9:AJ:372:THR:HA	9:AJ:422:TYR:CE2	2.26	0.66
9:BH:299:MET:HE3	9:BH:305:PRO:HG3	1.77	0.66
9:CD:113:VAL:HG21	9:CD:150:LEU:HD23	1.77	0.66
9:DB:412:GLU:OE1	9:DB:416:ASN:ND2	2.29	0.66
8:DE:286:LEU:O	8:DE:373:ARG:NH1	2.28	0.66
9:ED:73:MET:HE2	9:ED:92:PHE:HB3	1.77	0.66
8:FC:147:SER:OG	8:FC:190:THR:OG1	2.13	0.66
9:GD:316:VAL:HG23	9:GD:352:ALA:HB3	1.75	0.66
8:HC:69:ASP:OD1	8:HC:71:GLU:N	2.19	0.66
8:IG:167:LEU:HD12	8:IG:202:PHE:HE2	1.60	0.66
9:IH:236:VAL:HG13	9:IH:237:THR:HG23	1.76	0.66
9:IL:238:THR:HG21	9:IL:318:ARG:HD2	1.78	0.66
19:J5:54:ARG:HB2	19:J5:57:MET:HG3	1.77	0.66
8:JM:183:GLU:OE2	8:JM:184:PRO:HD3	1.94	0.66
8:KC:414:GLU:N	41:b2:152:ARG:HH22	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KN:49:VAL:HG21	9:KN:241:ARG:HG2	1.77	0.66
9:LF:279:GLN:HG3	29:S:364:PRO:HD2	1.77	0.66
9:MB:48:ASN:O	9:MB:62:ARG:NH2	2.29	0.66
8:NA:226:ASN:HA	8:NA:229:ARG:HE	1.59	0.66
9:NJ:3:GLU:HG3	9:NJ:127:CYS:HB3	1.76	0.66
8:NM:292:THR:HG21	8:NM:331:ALA:HB1	1.77	0.66
8:OM:220:GLU:HG2	8:OM:221:ARG:HG2	1.75	0.66
12:S5:201:HIS:HA	12:S5:204:LYS:HZ2	1.60	0.66
12:S6:200:PHE:O	12:S6:204:LYS:NZ	2.28	0.66
12:S8:436:GLN:OE1	12:S8:439:ARG:NH2	2.27	0.66
8:SG:50:ASN:O	8:SG:64:ARG:NH1	2.28	0.66
9:TL:1:MET:N	9:TL:3:GLU:OE1	2.29	0.66
30:U2:393:GLN:HB3	30:U3:280:PHE:HB2	1.78	0.66
30:U7:277:ILE:HG21	30:U8:391:MET:HE1	1.75	0.66
9:VF:276:ARG:HH22	39:a:240:LEU:N	1.92	0.66
8:VK:175:PRO:HG3	8:VK:304:LYS:HG2	1.75	0.66
9:VL:1:MET:HE2	48:s:159:ARG:NH1	2.10	0.66
9:WB:130:LEU:O	9:WB:162:ARG:NH1	2.26	0.66
42:e:16:LEU:HD13	42:e:615:LYS:HB2	1.77	0.66
2:2:277:ARG:HH22	8:II:359:PRO:CD	2.09	0.66
9:AD:162:ARG:HH21	9:AD:251:ARG:HH22	1.44	0.66
8:BM:292:THR:HG21	8:BM:331:ALA:HB1	1.78	0.66
9:CB:8:GLN:HE21	9:CB:14:ASN:HA	1.60	0.66
9:CH:245:GLN:HE21	27:P5:20:SER:HB3	1.61	0.66
8:CK:44:GLY:HA3	31:Y:263:ARG:HH22	1.61	0.66
14:D5:372:ASN:HA	14:D5:375:PHE:HD1	1.60	0.66
9:EH:284:LEU:HD11	9:EH:363:MET:HB2	1.76	0.66
9:FL:73:MET:HE3	9:FL:92:PHE:HB3	1.75	0.66
9:HP:19:LYS:HA	9:HP:19:LYS:HE2	1.77	0.66
9:IH:330:MET:HB3	9:IH:349:VAL:HG11	1.75	0.66
9:IL:336:LYS:NZ	36:Y1:86:ALA:O	2.28	0.66
8:IM:121:ARG:HH12	8:IM:124:LYS:HB3	1.61	0.66
9:JH:131:GLN:HE22	9:JH:250:LEU:H	1.43	0.66
8:LO:203:MET:HE1	8:LO:267:PHE:HB3	1.77	0.66
9:MD:406:MET:HE3	46:i2:1423:ALA:HB1	1.77	0.66
23:O:37:VAL:HG23	23:O:38:MET:HG2	1.76	0.66
9:OJ:273:LEU:O	9:OJ:292:GLN:NE2	2.28	0.66
8:OK:215:ARG:HH12	36:Y4:32:ILE:HG21	1.60	0.66
8:QK:245:ASP:HB2	8:QK:357:TYR:HE2	1.60	0.66
14:T1:39:SER:HB2	14:T1:42:ALA:HB2	1.77	0.66
8:TG:195:LEU:HD13	8:TG:428:LEU:HD11	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TM:271:THR:HA	8:TM:302:MET:HE1	1.77	0.66
25:U:371:LYS:H	40:a2:160:ALA:HA	1.60	0.66
30:U2:446:MET:HE1	30:U7:280:PHE:HB3	1.78	0.66
30:U5:343:PHE:HB3	30:U5:470:MET:HE1	1.76	0.66
9:UH:299:MET:HE3	9:UH:300:MET:H	1.60	0.66
8:UI:320:ARG:HD3	8:UI:360:PRO:HG3	1.78	0.66
9:UN:48:ASN:O	9:UN:62:ARG:NH2	2.28	0.66
8:WG:103:TYR:HE2	8:WG:413:MET:HE1	1.59	0.66
8:WI:356:ASN:OD1	8:WI:357:TYR:N	2.28	0.66
35:XE:164:ARG:NH2	35:XE:180:GLU:O	2.27	0.66
35:XH:74:PRO:HD2	35:XH:169:ASP:HA	1.77	0.66
31:Z:715:GLU:N	31:Z:715:GLU:OE1	2.29	0.66
40:a2:124:THR:HG21	40:a2:132:LYS:HZ1	1.60	0.66
7:A5:57:SER:O	7:A5:61:LYS:NZ	2.28	0.66
8:AC:346:TRP:HZ2	8:AC:435:VAL:HG13	1.61	0.66
9:AL:346:PRO:HD3	8:AM:397:LEU:HD11	1.77	0.66
10:C:226:GLU:OE2	9:HP:276:ARG:NH2	2.28	0.66
8:CG:143:GLY:O	8:CG:147:SER:OG	2.12	0.66
8:CO:36:MET:HE3	8:CO:37:PRO:HD2	1.77	0.66
8:DC:316:CYS:HB3	8:DC:378:LEU:HB2	1.78	0.66
9:DN:372:THR:HA	9:DN:422:TYR:HE1	1.60	0.66
8:DQ:271:THR:HA	8:DQ:302:MET:HE1	1.78	0.66
15:E:228:ASN:HB2	9:KH:32:PRO:HG2	1.76	0.66
8:EM:316:CYS:HB3	8:EM:378:LEU:HB2	1.76	0.66
8:EO:50:ASN:O	8:EO:64:ARG:NH1	2.28	0.66
9:FF:178:THR:HB	9:FF:181:GLU:HB3	1.77	0.66
8:IA:377:MET:HA	8:IA:377:MET:HE2	1.76	0.66
8:IG:203:MET:H	8:IG:203:MET:HE3	1.60	0.66
9:IN:318:ARG:HD3	9:IN:358:PRO:HD3	1.77	0.66
9:JL:50:TYR:HE1	9:JL:241:ARG:HD3	1.61	0.66
8:JO:50:ASN:O	8:JO:64:ARG:NH1	2.28	0.66
8:MO:271:THR:HB	8:MO:377:MET:HB3	1.76	0.66
9:NB:372:THR:HA	9:NB:422:TYR:HE1	1.60	0.66
9:NL:344:TRP:CD1	9:NL:345:ILE:HG13	2.30	0.66
8:OI:239:THR:HA	8:OI:242:LEU:HD13	1.76	0.66
9:OL:322:SER:OG	8:OM:222:PRO:O	2.14	0.66
9:ON:1:MET:HG3	9:ON:2:ARG:HG2	1.76	0.66
27:P3:81:LEU:HD21	25:T:214:GLN:HG3	1.78	0.66
27:P6:158:CYS:H	17:P9:56:LEU:CD1	2.08	0.66
9:PD:372:THR:HA	9:PD:422:TYR:HE1	1.59	0.66
8:QO:70:LEU:HB3	8:QO:98:ASP:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RH:344:TRP:HZ2	8:RI:400:ALA:HB3	1.61	0.66
9:RN:136:THR:HG22	9:RN:167:PHE:HB2	1.77	0.66
9:TF:376:GLU:HA	9:TF:379:LYS:HE2	1.77	0.66
30:U2:123:ILE:HG13	30:U2:127:LYS:HZ3	1.61	0.66
33:X4:375:TYR:OH	31:Y:133:ARG:NH1	2.28	0.66
42:f:140:TRP:HA	42:f:147:ALA:HA	1.78	0.66
46:i4:1358:ILE:O	46:i4:1394:PHE:N	2.28	0.66
4:j1:119:PRO:HA	4:j1:122:VAL:HG13	1.76	0.66
9:AP:67:ASP:O	9:AP:92:PHE:HA	1.95	0.66
8:BC:51:THR:HG21	8:BC:243:ARG:HG2	1.75	0.66
9:BF:372:THR:HA	9:BF:422:TYR:HE1	1.61	0.66
8:BI:154:MET:HE2	8:BI:193:THR:HG22	1.76	0.66
14:D1:156:LEU:HD22	28:Q1:41:PRO:HD2	1.78	0.66
9:DP:136:THR:HG22	9:DP:167:PHE:HB2	1.78	0.66
8:DQ:122:ILE:HD11	8:DQ:157:LEU:HD11	1.78	0.66
8:EM:173:PRO:O	8:EM:390:ARG:NH2	2.29	0.66
8:EO:203:MET:SD	8:EO:203:MET:N	2.65	0.66
8:FE:157:LEU:HD22	8:FE:166:LYS:HD3	1.78	0.66
9:GH:325:GLU:OE2	8:GI:221:ARG:NH1	2.28	0.66
8:HG:26:LEU:HD12	8:HG:363:VAL:HG12	1.77	0.66
20:K1:55:MET:HE1	8:UC:19:ALA:HA	1.78	0.66
9:KH:62:ARG:NH1	9:KH:127:CYS:SG	2.69	0.66
9:KH:235:GLY:HA3	9:KH:366:THR:HG21	1.76	0.66
9:LD:412:GLU:O	9:LD:416:ASN:ND2	2.21	0.66
8:LO:271:THR:HB	8:LO:377:MET:HB3	1.77	0.66
8:ME:27:GLU:OE2	8:ME:243:ARG:NH2	2.28	0.66
9:NB:357:PRO:O	9:NB:359:ARG:NH1	2.29	0.66
9:ND:324:LYS:HG3	8:NE:222:PRO:HD2	1.76	0.66
8:NO:50:ASN:O	8:NO:64:ARG:NH1	2.29	0.66
24:O3:48:THR:HG22	24:O3:100:ARG:H	1.59	0.66
8:OC:338:LYS:HD2	36:Y4:179:THR:HA	1.78	0.66
9:PD:328:GLU:HA	9:PD:331:LEU:HG	1.78	0.66
8:PE:50:ASN:O	8:PE:64:ARG:NH1	2.29	0.66
9:PN:372:THR:HA	9:PN:422:TYR:HE1	1.60	0.66
9:QL:156:ARG:HD3	9:QL:164:MET:SD	2.36	0.66
9:QP:372:THR:HA	9:QP:422:TYR:HE1	1.60	0.66
9:RP:73:MET:N	9:RP:73:MET:SD	2.68	0.66
12:S6:118:GLU:OE1	12:S6:121:ARG:NH1	2.28	0.66
9:TJ:395:LEU:O	9:TJ:399:THR:N	2.25	0.66
9:TL:44:LEU:HA	9:TL:47:ILE:HD12	1.77	0.66
8:UA:70:LEU:HB3	8:UA:98:ASP:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UC:203:MET:H	8:UC:203:MET:HE3	1.61	0.66
9:UJ:324:LYS:HG3	8:UK:222:PRO:HD2	1.76	0.66
9:VH:156:ARG:HG3	9:VH:195:ASN:HB3	1.76	0.66
8:WE:165:SER:HB3	8:WE:256:GLN:HE22	1.61	0.66
8:WE:252:LEU:HA	8:WE:255:PHE:CE2	2.29	0.66
40:a3:154:GLN:HG2	40:a3:155:THR:HG23	1.76	0.66
40:a3:157:ASP:OD1	40:a3:158:VAL:N	2.29	0.66
41:b2:209:MET:HE3	41:b2:321:ILE:HG23	1.78	0.66
3:3:172:HIS:HE1	16:G:80:LYS:HZ1	1.42	0.66
8:AC:284:GLU:HG2	8:MC:88:HIS:HE2	1.61	0.66
9:AJ:336:LYS:HB2	37:YE:31:MET:HE1	1.76	0.66
8:BG:221:ARG:NH1	17:J:229:ALA:O	2.29	0.66
8:BM:286:LEU:O	8:BM:373:ARG:NH1	2.28	0.66
8:CG:88:HIS:HB3	8:CG:91:GLN:HG3	1.77	0.66
8:CQ:252:LEU:HA	8:CQ:255:PHE:HE1	1.59	0.66
15:E:116:ALA:HB3	15:E:247:MET:HB2	1.77	0.66
8:EC:264:ARG:NH1	8:EC:431:ASP:OD2	2.29	0.66
9:FJ:52:ASN:OD1	9:FJ:62:ARG:NH1	2.29	0.66
8:GA:271:THR:HA	8:GA:302:MET:HE1	1.77	0.66
8:HM:183:GLU:HA	8:HM:186:ASN:HD22	1.60	0.66
9:IH:324:LYS:HD3	8:II:210:TYR:CG	2.30	0.66
19:J1:185:HIS:HD2	9:OB:282:ARG:HH22	1.44	0.66
19:J4:86:GLY:H	8:NK:57:GLY:HA3	1.61	0.66
9:JN:6:HIS:HD2	9:JN:63:ALA:HA	1.60	0.66
8:JO:203:MET:N	8:JO:203:MET:SD	2.63	0.66
20:K1:115:ARG:NH2	9:TD:71:GLY:O	2.28	0.66
9:KD:133:PHE:HB2	9:KD:164:MET:HE1	1.78	0.66
9:KH:262:ARG:HE	9:KH:418:LEU:HD13	1.60	0.66
9:KL:196:THR:HG21	9:KL:199:THR:HG22	1.78	0.66
9:KP:218:THR:HG22	9:KP:219:THR:HG23	1.77	0.66
8:LC:22:GLU:OE2	8:LC:229:ARG:NH1	2.29	0.66
8:LO:154:MET:HE1	8:LO:168:GLU:HG2	1.78	0.66
9:LP:52:ASN:OD1	9:LP:62:ARG:NH1	2.29	0.66
9:MJ:48:ASN:O	9:MJ:62:ARG:NH2	2.28	0.66
9:NH:358:PRO:HG2	9:NH:361:LEU:HB3	1.76	0.66
8:NM:56:THR:HA	8:OM:285:GLN:HB2	1.77	0.66
24:O4:105:CYS:SG	24:O4:106:ALA:N	2.68	0.66
27:P5:161:HIS:O	27:P5:162:GLN:HB3	1.95	0.66
9:PH:48:ASN:O	9:PH:62:ARG:NH2	2.29	0.66
8:QM:25:CYS:HB2	8:QM:30:ILE:HB	1.77	0.66
9:RH:158:GLU:HG3	9:RH:159:TYR:CD1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S8:279:GLU:O	14:T0:15:GLN:NE2	2.27	0.66
8:TI:58:ALA:HA	39:c:258:LYS:HG2	1.75	0.66
8:TI:171:ILE:HD13	8:TI:204:VAL:HG13	1.77	0.66
30:V1:292:ILE:HG12	30:V1:295:THR:HG22	1.78	0.66
8:VC:40:LYS:HZ1	42:e:152:PRO:HD3	1.60	0.66
40:a4:112:LEU:HD22	40:a4:115:ALA:HB2	1.77	0.66
3:3:316:ARG:HH22	9:GF:359:ARG:HH12	1.42	0.66
4:6:225:HIS:CD2	30:V7:273:THR:HB	2.31	0.66
9:CL:245:GLN:HE22	8:CM:223:THR:HG1	1.42	0.66
14:D4:192:ARG:HD3	32:X3:206:LEU:HD11	1.77	0.66
9:DL:41:ASP:HB2	17:M:54:SER:HA	1.78	0.66
9:FB:54:ALA:HA	9:GB:283:ALA:HB2	1.78	0.66
8:FE:254:GLU:HG2	9:FF:98:GLY:HA2	1.78	0.66
8:GG:338:LYS:HG3	36:Y2:179:THR:HG23	1.78	0.66
9:HF:60:VAL:HG21	9:HF:86:ARG:HH21	1.61	0.66
9:HH:8:GLN:HE21	9:HH:14:ASN:HA	1.61	0.66
9:HL:114:ASP:HB3	36:Y1:93:TYR:CE2	2.31	0.66
8:HO:213:CYS:HA	8:HO:217:LEU:HD23	1.77	0.66
9:IJ:48:ASN:O	9:IJ:62:ARG:NH2	2.27	0.66
19:J4:49:ARG:HH22	9:NJ:59:TYR:HE1	1.44	0.66
8:KC:195:LEU:HD21	8:KC:428:LEU:HD11	1.78	0.66
9:KD:337:ASN:HB2	9:KD:340:TYR:HD2	1.60	0.66
9:KF:401:GLU:OE2	41:b2:390:ARG:NH1	2.29	0.66
8:NI:360:PRO:O	8:NI:370:LYS:NZ	2.28	0.66
25:O5:492:ILE:HD11	25:O5:534:ARG:HD2	1.76	0.66
9:OD:48:ASN:O	9:OD:62:ARG:NH2	2.29	0.66
9:OD:55:THR:HG23	9:PD:283:ALA:HA	1.78	0.66
9:OF:48:ASN:O	9:OF:62:ARG:NH2	2.29	0.66
8:OG:291:ILE:HD13	8:OG:373:ARG:HD2	1.78	0.66
9:PN:48:ASN:O	9:PN:62:ARG:NH2	2.29	0.66
9:QH:372:THR:HA	9:QH:422:TYR:HE1	1.59	0.66
9:QN:256:ASN:HD21	8:QO:181:VAL:H	1.42	0.66
12:S3:121:ARG:HH12	12:S4:374:GLN:C	2.03	0.66
12:S4:449:ALA:HB1	12:S5:284:PHE:HE1	1.61	0.66
12:S8:470:GLN:OE1	14:T2:164:HIS:NE2	2.29	0.66
9:SF:169:VAL:HA	9:SF:202:ILE:HG22	1.75	0.66
9:SL:8:GLN:HB3	9:SL:65:LEU:HA	1.77	0.66
8:TG:4:CYS:HB2	8:TG:52:PHE:HE1	1.61	0.66
8:UA:413:MET:SD	8:UA:413:MET:N	2.69	0.66
8:UC:220:GLU:HG2	8:UC:221:ARG:HG2	1.77	0.66
9:VH:1:MET:SD	48:r:159:ARG:NH1	2.69	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VN:318:ARG:HG2	9:VN:358:PRO:HD3	1.77	0.66
8:WK:292:THR:HG21	8:WK:331:ALA:HB1	1.77	0.66
42:e:384:ARG:HG3	42:e:427:SER:HA	1.78	0.66
8:AI:47:ASP:O	8:AI:50:ASN:HB2	1.95	0.66
8:AO:40:LYS:HZ3	33:X5:97:PRO:HD2	1.61	0.66
11:B3:115:GLU:OE1	14:D3:414:LYS:NZ	2.25	0.66
8:BO:217:LEU:HD11	8:BO:275:VAL:HB	1.78	0.66
12:C4:205:ARG:HH21	12:C4:211:VAL:H	1.40	0.66
9:CN:48:ASN:O	9:CN:62:ARG:NH2	2.28	0.66
9:DB:429:THR:O	8:DC:401:LYS:NZ	2.28	0.66
8:FI:203:MET:HE1	8:FI:267:PHE:HB3	1.78	0.66
8:FM:169:PHE:HA	8:FM:202:PHE:HB2	1.78	0.66
9:HF:372:THR:HA	9:HF:422:TYR:HE1	1.60	0.66
8:HG:133:GLN:NE2	8:HG:251:ASP:OD2	2.28	0.66
9:HJ:198:GLU:HA	9:HJ:264:HIS:HB2	1.76	0.66
9:ID:48:ASN:O	9:ID:62:ARG:NH2	2.28	0.66
9:JH:323:MET:SD	9:JH:323:MET:N	2.61	0.66
8:KA:297:GLU:O	8:KA:301:GLN:NE2	2.28	0.66
8:KC:320:ARG:HD3	8:KC:360:PRO:HG3	1.78	0.66
9:KL:136:THR:HG22	9:KL:167:PHE:HB2	1.77	0.66
8:LC:50:ASN:O	8:LC:64:ARG:NH1	2.28	0.66
9:LD:331:LEU:HD11	8:LE:176:GLN:NE2	2.09	0.66
8:LG:70:LEU:HD12	8:LG:145:THR:HG22	1.78	0.66
8:LM:151:SER:HA	8:LM:193:THR:HG21	1.78	0.66
9:ML:69:GLU:HG3	9:ML:71:GLY:H	1.61	0.66
8:MO:90:GLU:HG2	8:MO:121:ARG:HD3	1.78	0.66
8:MO:284:GLU:OE1	8:MO:285:GLN:N	2.29	0.66
24:O3:105:CYS:SG	24:O3:106:ALA:N	2.68	0.66
17:O8:103:GLN:HG2	30:W4:52:ARG:HB2	1.78	0.66
8:PG:50:ASN:O	8:PG:64:ARG:NH1	2.28	0.66
8:QI:350:GLY:HA2	9:QJ:179:VAL:HG13	1.78	0.66
9:RH:136:THR:HG22	9:RH:167:PHE:HB2	1.76	0.66
8:RK:151:SER:HA	8:RK:193:THR:HG21	1.78	0.66
8:SA:50:ASN:O	8:SA:64:ARG:NH1	2.29	0.66
8:SE:36:MET:HE3	8:SE:61:HIS:CD2	2.31	0.66
9:SF:324:LYS:NZ	8:SG:210:TYR:O	2.27	0.66
8:SM:36:MET:HE3	8:SM:61:HIS:CD2	2.31	0.66
9:TF:324:LYS:NZ	8:TG:210:TYR:O	2.27	0.66
9:TN:48:ASN:O	9:TN:62:ARG:NH2	2.28	0.66
9:UF:252:LYS:NZ	50:UG:501:GTP:O3G	2.27	0.66
8:UK:369:ALA:HA	39:c:210:GLN:HE22	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V7:367:GLU:N	30:V7:367:GLU:OE2	2.29	0.66
9:VL:290:THR:HG21	9:VL:329:GLN:HB3	1.78	0.66
35:XA:34:ILE:HG22	35:XA:49:ILE:HG22	1.78	0.66
35:XE:170:ARG:NH2	35:XE:176:GLU:OE1	2.29	0.66
31:Z:345:ASN:HB3	40:a4:56:LEU:HD21	1.77	0.66
7:A5:4:LEU:HD21	8:AO:364:PRO:HB2	1.78	0.66
8:BE:320:ARG:HH11	8:BE:360:PRO:HA	1.61	0.66
9:BN:46:ARG:NH2	8:BO:76:ASP:OD2	2.29	0.66
14:D4:192:ARG:HG3	28:Q4:28:ARG:HH12	1.61	0.66
9:DH:372:THR:HA	9:DH:422:TYR:HE1	1.60	0.66
9:GD:350:LYS:HZ3	8:GE:181:VAL:H	1.42	0.66
8:GE:254:GLU:HG3	9:GF:99:ASN:OD1	1.96	0.66
8:GM:88:HIS:CE1	8:GM:90:GLU:HB3	2.31	0.66
9:HJ:55:THR:HG23	9:IJ:283:ALA:HA	1.77	0.66
8:HO:203:MET:N	8:HO:203:MET:SD	2.69	0.66
9:IH:48:ASN:O	9:IH:62:ARG:NH2	2.29	0.66
9:IL:198:GLU:HB2	9:IL:266:PHE:HE2	1.60	0.66
8:IO:252:LEU:HA	8:IO:255:PHE:CE1	2.31	0.66
9:JB:73:MET:N	9:JB:73:MET:SD	2.69	0.66
9:LB:156:ARG:NH1	9:LB:197:ASP:OD1	2.27	0.66
8:LC:289:ALA:O	8:LC:293:ASN:ND2	2.28	0.66
8:LM:292:THR:HG21	8:LM:331:ALA:HB1	1.78	0.66
9:MB:24:ILE:HA	9:MB:27:GLU:HB2	1.78	0.66
8:MM:65:ALA:O	8:MM:91:GLN:NE2	2.28	0.66
9:NH:20:PHE:HB2	9:NH:233:MET:HE3	1.78	0.66
9:NL:67:ASP:OD2	9:NL:72:THR:OG1	2.14	0.66
8:OA:3:GLU:HG3	8:OA:64:ARG:HH12	1.61	0.66
9:OB:372:THR:HA	9:OB:422:TYR:HE1	1.60	0.66
8:PE:70:LEU:HG	8:PE:98:ASP:HA	1.76	0.66
9:PL:8:GLN:HB3	9:PL:65:LEU:HA	1.77	0.66
9:QD:403:MET:N	9:QD:403:MET:SD	2.69	0.66
11:R1:121:GLU:OE1	14:T4:409:ARG:NH2	2.28	0.66
8:SK:302:MET:SD	8:SK:302:MET:N	2.66	0.66
8:SM:320:ARG:HD3	8:SM:360:PRO:HG3	1.77	0.66
8:TE:50:ASN:O	8:TE:64:ARG:NH1	2.29	0.66
8:TE:395:PHE:HB3	8:TE:422:ARG:HH22	1.60	0.66
9:WP:48:ASN:O	9:WP:62:ARG:NH2	2.28	0.66
31:Z:119:GLU:HA	31:Z:127:GLN:OE1	1.94	0.66
4:j1:112:LYS:HE3	4:j1:183:LEU:HD13	1.77	0.66
8:AA:70:LEU:HB3	8:AA:98:ASP:HA	1.77	0.65
8:BM:172:TYR:HB2	8:BM:203:MET:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:218:THR:HG22	9:CD:219:THR:HG23	1.78	0.65
9:CD:286:VAL:HG22	9:CD:321:MET:HE2	1.77	0.65
8:CK:254:GLU:HG2	9:CL:98:GLY:HA2	1.79	0.65
9:CL:198:GLU:HA	9:CL:264:HIS:HB2	1.76	0.65
9:CN:218:THR:HG21	22:M4:188:GLU:HB2	1.78	0.65
9:ED:136:THR:HG22	9:ED:167:PHE:HB2	1.78	0.65
8:FC:292:THR:HG21	8:FC:331:ALA:HB1	1.78	0.65
9:FH:372:THR:HA	9:FH:422:TYR:HE1	1.61	0.65
8:GA:258:ASN:HD22	8:GA:352:LYS:HB2	1.60	0.65
9:GB:173:PRO:HG3	9:GB:380:ARG:HD2	1.78	0.65
8:GE:56:THR:HA	8:HE:285:GLN:HB2	1.77	0.65
9:HN:12:CYS:HG	9:HN:138:SER:HG	1.43	0.65
8:HO:180:ALA:HB3	8:HO:183:GLU:HB3	1.76	0.65
8:IM:301:GLN:HG3	8:IM:307:PRO:HG2	1.77	0.65
9:JJ:49:VAL:HG11	9:JJ:241:ARG:HG2	1.78	0.65
8:KC:56:THR:HA	8:LC:285:GLN:HB2	1.76	0.65
8:KG:60:LYS:HE2	8:LG:283:HIS:ND1	2.11	0.65
8:KI:191:THR:HG21	8:KI:388:TRP:HH2	1.61	0.65
8:LM:402:ARG:HH22	43:k:75:LYS:HE2	1.61	0.65
8:LO:437:VAL:O	9:LP:391:ARG:NH2	2.28	0.65
9:MF:257:MET:HE3	9:MF:314:ALA:HB2	1.76	0.65
8:MM:298:PRO:HA	8:MM:301:GLN:HG2	1.78	0.65
9:MN:73:MET:SD	9:MN:77:ARG:NH2	2.70	0.65
9:ND:337:ASN:HB3	9:ND:340:TYR:HD2	1.61	0.65
9:OJ:20:PHE:CZ	9:OJ:230:SER:HA	2.29	0.65
9:OP:316:VAL:HG13	9:OP:366:THR:HB	1.77	0.65
9:PD:48:ASN:O	9:PD:62:ARG:NH2	2.30	0.65
9:QL:73:MET:HE2	9:QL:92:PHE:HB3	1.78	0.65
8:RG:36:MET:HE3	8:RG:37:PRO:HD2	1.77	0.65
8:RG:186:ASN:O	8:RG:190:THR:OG1	2.12	0.65
8:UE:316:CYS:HB3	8:UE:378:LEU:HB2	1.76	0.65
30:V0:470:MET:N	30:V0:470:MET:SD	2.69	0.65
9:VD:322:SER:HB3	8:VE:221:ARG:HG3	1.78	0.65
9:VJ:325:GLU:OE1	8:VK:221:ARG:NH1	2.29	0.65
9:WD:350:LYS:HD2	8:WE:180:ALA:HA	1.77	0.65
8:WO:292:THR:HG21	8:WO:331:ALA:HB1	1.77	0.65
34:X6:7:LEU:HB3	34:X6:12:TYR:HB2	1.78	0.65
3:3:19:LYS:HG3	36:Y5:245:TYR:HB3	1.77	0.65
8:AA:316:CYS:HB3	8:AA:378:LEU:HB2	1.76	0.65
9:AF:48:ASN:O	9:AF:62:ARG:NH2	2.27	0.65
9:BB:6:HIS:HE1	9:BB:136:THR:HG23	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BF:330:MET:HB3	9:BF:349:VAL:HG11	1.76	0.65
12:C0:83:PHE:HA	12:C1:203:GLU:OE1	1.95	0.65
8:DC:52:PHE:HZ	8:DC:239:THR:HG21	1.61	0.65
9:EB:372:THR:HA	9:EB:422:TYR:HE1	1.60	0.65
8:EK:50:ASN:O	8:EK:64:ARG:NH1	2.29	0.65
8:FA:108:TYR:HB2	8:FA:411:GLU:OE1	1.97	0.65
8:FI:292:THR:HG21	8:FI:331:ALA:HB1	1.78	0.65
8:GE:50:ASN:O	8:GE:64:ARG:NH1	2.29	0.65
8:GG:124:LYS:HG3	49:y:157:SER:HB2	1.79	0.65
8:GM:252:LEU:HA	8:GM:255:PHE:HE1	1.61	0.65
8:HC:316:CYS:HB3	8:HC:378:LEU:HB2	1.76	0.65
9:HJ:69:GLU:HG2	9:HJ:71:GLY:H	1.61	0.65
8:IG:360:PRO:HG3	8:IG:374:ALA:HB2	1.77	0.65
9:IJ:314:ALA:HB3	9:IJ:368:ILE:HB	1.78	0.65
9:IL:282:ARG:NH2	9:IL:292:GLN:OE1	2.28	0.65
8:JC:292:THR:HG21	8:JC:331:ALA:HB1	1.79	0.65
9:JD:324:LYS:HG2	8:JE:222:PRO:HD2	1.78	0.65
8:JE:101:ASN:HD21	8:JE:180:ALA:HB1	1.61	0.65
8:JM:50:ASN:O	8:JM:64:ARG:NH1	2.29	0.65
9:KF:48:ASN:O	9:KF:62:ARG:NH2	2.29	0.65
8:KI:413:MET:HB2	41:b3:366:LYS:HZ1	1.60	0.65
8:KM:289:ALA:O	8:KM:293:ASN:ND2	2.30	0.65
21:L1:133:MET:SD	9:VF:245:GLN:HA	2.35	0.65
9:LL:330:MET:HE2	9:LL:349:VAL:HG21	1.78	0.65
9:MB:136:THR:HG22	9:MB:167:PHE:HB2	1.78	0.65
9:MF:271:ALA:O	9:MF:292:GLN:NE2	2.28	0.65
9:MJ:237:THR:HG22	9:MJ:250:LEU:HD21	1.77	0.65
9:NF:178:THR:HB	9:NF:181:GLU:HG3	1.79	0.65
9:NH:8:GLN:HB3	9:NH:65:LEU:HA	1.79	0.65
24:O1:105:CYS:SG	24:O1:106:ALA:N	2.69	0.65
25:O6:23:THR:HG22	25:O6:24:ALA:H	1.61	0.65
8:OE:295:CYS:HB3	8:OE:377:MET:HG2	1.78	0.65
8:OI:101:ASN:OD1	8:OI:186:ASN:ND2	2.29	0.65
9:PB:65:LEU:HD11	9:PB:85:PHE:HD1	1.61	0.65
9:QB:323:MET:SD	9:QB:323:MET:N	2.69	0.65
9:RL:156:ARG:NH1	9:RL:197:ASP:OD1	2.29	0.65
12:S1:475:SER:OG	12:S1:476:MET:SD	2.54	0.65
12:S9:419:ARG:O	12:S9:423:GLU:HG2	1.96	0.65
9:SF:12:CYS:HA	9:SF:15:GLN:HE21	1.60	0.65
8:SK:413:MET:HE3	8:SK:414:GLU:H	1.62	0.65
14:T3:65:HIS:NE2	30:V6:376:MET:SD	2.68	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TJ:252:LYS:NZ	50:TK:501:GTP:O3G	2.29	0.65
25:U:101:ALA:HB2	25:U:183:ILE:HD13	1.78	0.65
30:U2:433:ARG:NH1	30:U3:119:ASP:OD2	2.29	0.65
8:UI:392:ASP:OD1	8:UI:425:LEU:HD23	1.96	0.65
30:V0:402:ARG:HG2	30:V1:263:ILE:HD11	1.77	0.65
8:VO:172:TYR:HE1	8:VO:391:LEU:HD21	1.60	0.65
9:WD:377:LEU:HA	9:WD:380:ARG:HE	1.61	0.65
9:WF:48:ASN:O	9:WF:62:ARG:NH2	2.29	0.65
42:g:499:ILE:HG23	42:g:529:TRP:CZ3	2.31	0.65
8:BO:316:CYS:HB3	8:BO:378:LEU:HB2	1.77	0.65
12:C2:118:GLU:OE2	11:R3:51:ASN:ND2	2.29	0.65
9:CL:19:LYS:NZ	9:CL:223:GLY:O	2.29	0.65
9:DJ:245:GLN:O	8:DK:11:GLN:NE2	2.29	0.65
8:EA:339:ARG:HH22	8:EA:342:GLN:HG2	1.61	0.65
9:EB:19:LYS:NZ	9:EB:223:GLY:O	2.29	0.65
8:FE:292:THR:HG21	8:FE:331:ALA:HB1	1.76	0.65
9:FJ:48:ASN:O	9:FJ:62:ARG:NH2	2.29	0.65
8:FO:50:ASN:O	8:FO:64:ARG:NH1	2.30	0.65
9:GN:237:THR:HG22	9:GN:250:LEU:HD21	1.79	0.65
8:HI:326:LYS:NZ	9:HJ:218:THR:O	2.26	0.65
9:IH:87:PRO:HA	9:IH:90:PHE:CE1	2.32	0.65
8:JK:258:ASN:HD21	9:JL:178:THR:HG23	1.61	0.65
8:JO:209:ILE:HD11	8:JO:302:MET:HE3	1.78	0.65
8:LC:264:ARG:NH1	8:LC:431:ASP:OD2	2.28	0.65
8:LM:171:ILE:HD13	8:LM:204:VAL:HG23	1.78	0.65
8:MG:53:PHE:O	8:MG:64:ARG:NH1	2.29	0.65
9:MH:309:ARG:HG3	9:MH:426:GLN:HG3	1.77	0.65
8:MK:297:GLU:O	8:MK:301:GLN:NE2	2.26	0.65
8:NK:220:GLU:HG2	8:NK:221:ARG:HG3	1.78	0.65
8:NM:34:GLY:HA3	8:NM:60:LYS:HD3	1.78	0.65
9:NP:117:LEU:HB3	9:NP:121:ARG:HH21	1.60	0.65
17:O8:54:SER:CB	27:P3:157:LEU:H	2.08	0.65
8:OE:377:MET:HE2	8:OE:379:SER:HB3	1.78	0.65
9:OJ:114:ASP:N	9:OJ:114:ASP:OD1	2.28	0.65
9:OJ:318:ARG:HH21	9:OJ:358:PRO:HA	1.61	0.65
9:OP:289:LEU:HD21	9:OP:363:MET:HE3	1.78	0.65
9:PJ:48:ASN:O	9:PJ:62:ARG:NH2	2.30	0.65
9:PJ:323:MET:N	9:PJ:323:MET:SD	2.68	0.65
9:QB:109:GLY:HA3	9:QB:147:MET:SD	2.36	0.65
8:QG:261:PRO:HG3	8:QG:313:MET:HE3	1.78	0.65
9:RL:299:MET:N	9:RL:299:MET:SD	2.69	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S1:379:ILE:HG23	12:S1:438:LEU:HD11	1.77	0.65
9:SB:371:SER:O	9:SB:422:TYR:OH	2.14	0.65
8:SG:318:LEU:HB2	8:SG:376:CYS:HB3	1.79	0.65
8:TC:165:SER:HB2	8:TC:252:LEU:HD21	1.78	0.65
30:V3:229:MET:HE2	30:V3:230:ARG:HD2	1.78	0.65
9:VJ:77:ARG:HD2	43:j:212:GLN:HE22	1.59	0.65
8:VO:56:THR:HA	8:WO:285:GLN:HB3	1.77	0.65
34:X8:264:ASN:HB3	34:X8:267:LEU:HB3	1.77	0.65
3:3:83:VAL:HG23	13:K3:342:LEU:HD22	1.78	0.65
1:7:89:MET:O	9:JD:320:ARG:NH1	2.30	0.65
6:A:25:ARG:HG2	6:A:25:ARG:HH11	1.59	0.65
9:AF:299:MET:SD	9:AF:301:ALA:N	2.69	0.65
8:AG:109:THR:HG23	8:AG:110:ILE:HG12	1.77	0.65
9:EB:48:ASN:O	9:EB:62:ARG:NH2	2.29	0.65
8:EC:165:SER:HB3	8:EC:256:GLN:HE22	1.62	0.65
8:FA:113:GLU:O	36:Y3:73:ASN:ND2	2.29	0.65
8:FC:70:LEU:HB3	8:FC:98:ASP:HA	1.79	0.65
8:FK:120:ASP:HB2	36:Y2:108:PRO:HG3	1.78	0.65
8:FO:427:ALA:HA	8:FO:430:LYS:HD2	1.78	0.65
8:GA:14:VAL:HG11	8:GA:75:VAL:HG22	1.78	0.65
8:GA:70:LEU:HB3	8:GA:98:ASP:HA	1.79	0.65
8:HK:133:GLN:HE22	8:HK:252:LEU:HD13	1.60	0.65
8:IA:79:ARG:NH2	8:IA:92:LEU:O	2.29	0.65
9:IL:327:ASP:N	9:IL:327:ASP:OD1	2.24	0.65
19:J3:246:SER:HB3	8:LK:430:LYS:HG2	1.78	0.65
8:JG:251:ASP:H	8:JG:254:GLU:HB2	1.60	0.65
9:KH:198:GLU:HA	9:KH:264:HIS:HB2	1.79	0.65
9:LJ:381:ILE:HB	9:LJ:415:MET:HE1	1.78	0.65
8:LK:1:MET:HE2	8:LK:130:THR:H	1.61	0.65
9:MH:279:GLN:O	23:P:189:ARG:NH2	2.29	0.65
9:ND:267:MET:HE1	9:ND:373:ALA:HB3	1.78	0.65
9:NF:54:ALA:HA	9:OF:283:ALA:HB2	1.78	0.65
9:OD:20:PHE:CZ	9:OD:233:MET:HE2	2.32	0.65
9:OJ:282:ARG:NH2	9:OJ:292:GLN:OE1	2.30	0.65
9:PN:324:LYS:H	8:PO:221:ARG:NH2	1.91	0.65
9:RD:67:ASP:HB3	9:RD:73:MET:HE1	1.78	0.65
29:S:114:ASP:HB3	29:S:117:ALA:HB2	1.77	0.65
8:TC:292:THR:HG21	8:TC:331:ALA:HB1	1.78	0.65
8:UE:57:GLY:H	8:VE:285:GLN:HG3	1.61	0.65
9:UJ:299:MET:SD	9:UJ:300:MET:N	2.69	0.65
9:UN:293:MET:HE1	9:UN:367:PHE:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VF:54:ALA:HB3	9:VF:58:LYS:HB3	1.78	0.65
8:VI:279:GLU:OE2	39:b:485:ASN:ND2	2.29	0.65
31:W:366:THR:HG21	40:a1:78:VAL:HG11	1.78	0.65
31:X:551:LYS:HE3	31:X:593:LYS:HG3	1.78	0.65
31:Y:594:LEU:HD21	31:Y:599:LEU:HB2	1.79	0.65
47:o:157:ARG:HA	47:o:160:LYS:HD2	1.78	0.65
47:o:160:LYS:N	47:p:483:TYR:OH	2.30	0.65
9:AF:114:ASP:N	9:AF:114:ASP:OD1	2.28	0.65
9:BB:320:ARG:NH1	17:H:232:MET:SD	2.69	0.65
10:C:470:ARG:HG3	10:C:472:ASP:H	1.62	0.65
8:CC:90:GLU:HG2	8:DC:280:LYS:HZ1	1.61	0.65
9:CD:244:GLY:HA2	9:CD:355:ASP:HB2	1.79	0.65
8:CO:123:ARG:NH1	8:CO:127:ASP:OD2	2.29	0.65
14:D3:54:ASP:N	14:D3:54:ASP:OD1	2.28	0.65
8:DC:252:LEU:HA	8:DC:255:PHE:CZ	2.32	0.65
9:FB:48:ASN:O	9:FB:62:ARG:NH2	2.30	0.65
9:FN:377:LEU:HD13	9:FN:380:ARG:HH22	1.61	0.65
8:HE:50:ASN:O	8:HE:64:ARG:NH1	2.29	0.65
9:HJ:202:ILE:HG13	9:HJ:300:MET:HG3	1.78	0.65
9:HL:304:ASP:OD1	9:HL:306:ARG:NH2	2.29	0.65
19:J3:227:LYS:HE2	41:b4:231:ARG:HH11	1.62	0.65
9:JB:245:GLN:O	8:JC:11:GLN:NE2	2.30	0.65
8:JE:239:THR:HG22	8:JE:243:ARG:HG3	1.78	0.65
9:JH:267:MET:HG2	9:JH:299:MET:HE2	1.76	0.65
8:KA:204:VAL:HG23	8:KA:302:MET:HB2	1.77	0.65
8:LA:439:SER:HB2	9:LB:390:ARG:HH21	1.59	0.65
8:LE:109:THR:HG23	8:LE:110:ILE:HG12	1.79	0.65
9:LN:390:ARG:NH2	43:k:91:ARG:O	2.29	0.65
8:LO:50:ASN:O	8:LO:64:ARG:NH1	2.30	0.65
9:MB:47:ILE:HD12	9:MB:47:ILE:H	1.61	0.65
8:MG:336:LYS:O	45:m:26:ARG:NH1	2.28	0.65
8:NM:317:MET:HB2	8:NM:353:VAL:HA	1.79	0.65
9:OF:275:SER:O	9:OF:279:GLN:NE2	2.30	0.65
27:P6:134:CYS:HB2	27:P6:152:LEU:HD12	1.79	0.65
9:PB:323:MET:O	9:PB:327:ASP:N	2.22	0.65
9:PF:187:LEU:O	9:PF:191:GLN:NE2	2.30	0.65
8:PG:227:LEU:HD21	50:PG:501:GTP:HN21	1.61	0.65
8:PI:25:CYS:HB2	8:PI:30:ILE:HG22	1.77	0.65
9:PJ:372:THR:HA	9:PJ:422:TYR:HE1	1.62	0.65
9:QH:170:VAL:HG11	9:QH:377:LEU:HD21	1.78	0.65
8:RC:53:PHE:HB3	8:RC:61:HIS:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RO:3:GLU:H	8:RO:133:GLN:HG2	1.61	0.65
12:S8:135:ILE:HD11	12:S9:430:THR:HG21	1.78	0.65
12:S8:205:ARG:HH21	12:S8:211:VAL:H	1.44	0.65
9:SD:8:GLN:HB3	9:SD:65:LEU:HA	1.78	0.65
9:SN:362:LYS:HG2	9:SN:363:MET:SD	2.36	0.65
30:U7:480:PRO:HG2	30:U7:481:ARG:HD3	1.79	0.65
9:VH:324:LYS:HG3	8:VI:222:PRO:HD2	1.77	0.65
9:VN:48:ASN:O	9:VN:62:ARG:NH2	2.28	0.65
9:WF:293:MET:HE2	9:WF:367:PHE:HB2	1.76	0.65
34:X6:40:ILE:HA	34:X6:88:ILE:O	1.96	0.65
3:3:328:LYS:HZ1	3:3:332:ARG:HE	1.43	0.65
7:A3:361:GLN:HE22	7:A4:34:SER:HB2	1.62	0.65
9:AB:213:ARG:HE	9:AB:297:LYS:HD3	1.61	0.65
9:AF:372:THR:HA	9:AF:422:TYR:HE2	1.61	0.65
9:AL:1:MET:HE2	8:AM:72:PRO:HG3	1.79	0.65
9:BB:247:ASN:H	8:BC:11:GLN:HE22	1.43	0.65
8:BI:326:LYS:NZ	9:BJ:220:PRO:HD2	2.12	0.65
9:BP:38:GLY:O	17:O7:315:ARG:NH2	2.29	0.65
9:BP:61:PRO:HD3	9:BP:84:ILE:HG22	1.77	0.65
9:EL:112:LEU:HD23	9:EL:147:MET:HE3	1.79	0.65
8:GM:338:LYS:HB3	8:GM:340:THR:HG22	1.77	0.65
9:GN:321:MET:N	9:GN:321:MET:SD	2.69	0.65
9:HH:211:CYS:HA	9:HH:215:LEU:HB2	1.78	0.65
9:HL:389:PHE:O	9:HL:392:LYS:NZ	2.28	0.65
8:IA:50:ASN:O	8:IA:64:ARG:NH1	2.30	0.65
8:JC:339:ARG:NH1	8:JC:340:THR:OG1	2.30	0.65
8:JQ:317:MET:HE1	8:JQ:377:MET:HB2	1.77	0.65
20:K1:22:LEU:HA	20:K1:25:LEU:HG	1.77	0.65
9:LB:426:GLN:HE21	44:h1:64:MET:HE1	1.60	0.65
8:MG:326:LYS:HD3	9:MH:212:PHE:HZ	1.62	0.65
9:NB:345:ILE:HG23	8:NC:398:MET:HE1	1.77	0.65
9:ND:428:ALA:HB1	8:NE:401:LYS:HE3	1.78	0.65
25:O5:141:SER:OG	25:O5:145:GLN:NE2	2.30	0.65
8:OC:320:ARG:HD3	8:OC:360:PRO:HG3	1.78	0.65
9:OF:249:ASP:H	9:OF:252:LYS:HB2	1.61	0.65
12:S1:153:LEU:HD22	12:S1:265:LEU:HB3	1.79	0.65
12:S3:382:ILE:HG21	12:S3:438:LEU:HB3	1.77	0.65
12:S9:372:ILE:HD13	14:T0:41:LEU:HD23	1.79	0.65
9:SB:1:MET:SD	9:SB:2:ARG:N	2.69	0.65
9:TB:321:MET:SD	9:TB:321:MET:N	2.70	0.65
8:TK:292:THR:HG21	8:TK:331:ALA:HB1	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U1:85:ALA:HB2	31:W:573:HIS:NE2	2.12	0.65
8:UC:50:ASN:O	8:UC:64:ARG:NH1	2.30	0.65
9:VD:324:LYS:HG3	8:VE:222:PRO:HD2	1.79	0.65
8:VM:149:PHE:HA	8:VM:152:LEU:HG	1.77	0.65
30:W5:464:ILE:HA	30:W5:468:LYS:HD2	1.79	0.65
9:WJ:1:MET:SD	9:WJ:2:ARG:N	2.68	0.65
31:X:720:VAL:HA	31:X:724:MET:HE1	1.79	0.65
34:X6:228:VAL:HG11	34:X6:248:LEU:HB3	1.79	0.65
4:5:272:MET:O	4:5:276:ASN:ND2	2.28	0.65
11:B5:395:ARG:NH2	11:B5:407:GLN:OE1	2.29	0.65
9:CB:6:HIS:HD2	9:CB:21:TRP:HE1	1.45	0.65
8:CI:33:ASP:O	8:CI:60:LYS:NZ	2.30	0.65
14:D2:100:THR:HG22	14:D3:356:ARG:HH22	1.60	0.65
14:D3:230:ARG:HH12	8:LK:40:LYS:HA	1.62	0.65
8:DM:292:THR:HG21	8:DM:331:ALA:HB1	1.78	0.65
9:DP:325:GLU:H	8:DQ:221:ARG:NH2	1.94	0.65
8:EI:295:CYS:SG	8:EI:377:MET:HE3	2.37	0.65
8:EK:339:ARG:HH21	8:EK:342:GLN:HG2	1.60	0.65
15:F:208:GLU:CD	29:S:78:MET:HE1	2.21	0.65
9:GL:321:MET:N	9:GL:321:MET:SD	2.70	0.65
8:HE:186:ASN:O	8:HE:190:THR:OG1	2.14	0.65
8:HK:121:ARG:NH1	8:HK:121:ARG:O	2.29	0.65
9:IB:346:PRO:HD2	8:IC:398:MET:HE1	1.77	0.65
9:IP:60:VAL:HG21	8:JQ:283:HIS:HB2	1.78	0.65
8:JO:337:THR:C	8:JO:338:LYS:HD2	2.22	0.65
9:JP:46:ARG:HH12	8:JQ:73:THR:HG22	1.61	0.65
20:K1:113:HIS:O	8:TC:358:GLN:NE2	2.30	0.65
8:KA:289:ALA:O	8:KA:293:ASN:ND2	2.30	0.65
8:KC:228:ASN:HA	8:KC:231:ILE:HD12	1.77	0.65
8:KI:51:THR:HG21	8:KI:243:ARG:HG2	1.79	0.65
8:KK:332:ILE:HD11	9:KL:175:VAL:HG23	1.77	0.65
8:LA:114:ILE:HA	8:LA:117:LEU:HD23	1.78	0.65
9:LJ:390:ARG:HD3	44:h3:42:LEU:HD22	1.78	0.65
22:M3:175:TYR:HE2	22:M3:183:ARG:HB3	1.61	0.65
9:MJ:257:MET:HE3	9:MJ:314:ALA:HB2	1.79	0.65
9:MP:67:ASP:HA	9:MP:143:THR:HG21	1.79	0.65
9:NB:324:LYS:HG3	8:NC:222:PRO:HD2	1.79	0.65
8:NI:21:TRP:HA	8:NI:24:TYR:HB2	1.78	0.65
9:OF:237:THR:HG22	9:OF:250:LEU:HD21	1.78	0.65
8:PG:56:THR:HG22	8:QG:285:GLN:HB2	1.79	0.65
11:R1:399:VAL:HB	11:R1:402:GLU:HG2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RF:156:ARG:NH1	9:RF:197:ASP:OD1	2.30	0.65
8:RO:317:MET:HB2	8:RO:353:VAL:HA	1.79	0.65
12:S3:125:SER:HG	30:V5:158:TYR:HH	1.35	0.65
8:SC:50:ASN:O	8:SC:64:ARG:NH1	2.29	0.65
9:TF:330:MET:HE1	8:TG:177:VAL:HG12	1.77	0.65
30:U8:78:ILE:HG12	30:U9:195:LEU:HD13	1.79	0.65
8:UE:24:TYR:HB3	8:UE:28:HIS:HE1	1.61	0.65
8:VC:53:PHE:HB3	8:VC:61:HIS:HB3	1.78	0.65
9:WF:132:GLY:HA3	9:WF:163:ILE:O	1.96	0.65
42:g:167:SER:HB2	42:g:173:MET:HE3	1.77	0.65
48:s:74:ARG:HH21	48:s:93:LEU:HD11	1.62	0.65
3:3:215:ARG:NH1	16:G:33:GLY:O	2.30	0.65
8:AE:325:PRO:HA	8:AE:328:VAL:HG12	1.77	0.65
8:AE:388:TRP:HB3	8:AE:425:LEU:HD21	1.78	0.65
8:BO:402:ARG:NH2	8:BO:415:GLU:OE2	2.30	0.65
8:CG:316:CYS:HA	8:CG:352:LYS:HB3	1.79	0.65
8:EC:70:LEU:HB3	8:EC:98:ASP:HA	1.79	0.65
8:EI:36:MET:HB3	8:EI:40:LYS:HG3	1.79	0.65
9:EJ:133:PHE:HB2	9:EJ:164:MET:HE1	1.79	0.65
8:FG:350:GLY:HA2	9:FH:179:VAL:HG23	1.77	0.65
8:FO:239:THR:OG1	8:FO:243:ARG:NH1	2.29	0.65
8:GO:151:SER:HB3	8:GO:193:THR:HG21	1.78	0.65
9:IN:68:LEU:HD11	9:IN:147:MET:HE1	1.77	0.65
9:KD:157:GLU:OE2	41:b2:451:LYS:NZ	2.29	0.65
9:LL:248:ALA:HA	9:LL:252:LYS:HD2	1.77	0.65
9:LN:48:ASN:O	9:LN:62:ARG:NH2	2.29	0.65
8:LO:88:HIS:HD2	8:MO:283:HIS:HB3	1.62	0.65
8:LO:370:LYS:O	29:S:98:GLN:NE2	2.30	0.65
9:LP:358:PRO:HG2	9:LP:361:LEU:HB3	1.77	0.65
9:MD:73:MET:HE1	9:MD:92:PHE:HB3	1.78	0.65
8:MM:278:ALA:HB2	23:P:48:GLN:HE21	1.62	0.65
8:MM:292:THR:HG21	8:MM:331:ALA:HB1	1.78	0.65
9:NB:198:GLU:HA	9:NB:264:HIS:HB2	1.79	0.65
8:NC:7:ILE:HA	8:NC:66:VAL:HG12	1.79	0.65
9:OF:173:PRO:HG3	9:OF:380:ARG:HD2	1.78	0.65
9:OH:87:PRO:HA	9:OH:90:PHE:CE1	2.32	0.65
9:PH:86:ARG:HD3	9:PH:88:ASP:H	1.60	0.65
8:PK:239:THR:OG1	8:PK:243:ARG:NH1	2.30	0.65
11:R1:310:ASN:HD22	11:R2:53:ILE:HG21	1.61	0.65
8:RE:30:ILE:HD13	8:RE:36:MET:HE3	1.79	0.65
8:RG:154:MET:SD	8:RG:197:HIS:HB3	2.37	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SG:220:GLU:O	8:SG:221:ARG:NH1	2.29	0.65
8:SK:348:PRO:HD2	9:SL:388:MET:HE1	1.77	0.65
25:T:289:PRO:HB2	25:T:290:LEU:HD12	1.79	0.65
8:TC:145:THR:HA	8:TC:149:PHE:CE2	2.32	0.65
8:UO:169:PHE:HA	8:UO:202:PHE:HB3	1.79	0.65
9:WF:273:LEU:O	9:WF:292:GLN:NE2	2.30	0.65
34:X8:59:ARG:HD2	34:X8:158:GLY:H	1.62	0.65
4:5:57:HIS:HA	4:5:65:PHE:H	1.62	0.65
8:AC:326:LYS:NZ	9:AD:218:THR:O	2.23	0.65
9:BH:245:GLN:NE2	8:BI:224:TYR:HB2	2.12	0.65
8:CG:65:ALA:O	8:CG:91:GLN:NE2	2.27	0.65
8:DI:150:ALA:O	8:DI:154:MET:HG3	1.96	0.65
8:FC:297:GLU:O	8:FC:301:GLN:NE2	2.28	0.65
8:FI:437:VAL:O	9:FJ:391:ARG:NH2	2.29	0.65
8:FK:298:PRO:HA	8:FK:301:GLN:HG2	1.78	0.65
9:FN:1:MET:SD	9:FN:2:ARG:N	2.69	0.65
9:GL:320:ARG:NH2	26:P2:77:VAL:O	2.29	0.65
9:HL:215:LEU:HD21	9:HL:273:LEU:HD12	1.78	0.65
9:IF:101:TRP:NE1	9:IF:145:SER:O	2.30	0.65
8:IG:151:SER:HA	8:IG:193:THR:HG21	1.77	0.65
9:JD:258:VAL:HG13	8:JE:407:TRP:HE1	1.62	0.65
8:JE:316:CYS:HA	8:JE:352:LYS:HB2	1.79	0.65
8:JM:292:THR:HG21	8:JM:331:ALA:HB1	1.78	0.65
8:KG:88:HIS:HD2	8:LG:283:HIS:HB3	1.62	0.65
8:KK:254:GLU:HG2	9:KL:98:GLY:HA2	1.78	0.65
9:KP:101:TRP:NE1	9:KP:188:SER:OG	2.29	0.65
8:LC:172:TYR:HD1	8:LC:173:PRO:HD3	1.62	0.65
8:LG:254:GLU:HG2	9:LH:98:GLY:HA2	1.79	0.65
8:LI:286:LEU:O	8:LI:373:ARG:NH1	2.30	0.65
9:LP:359:ARG:HH22	25:O6:11:PHE:HB3	1.60	0.65
8:MA:7:ILE:HB	8:MA:137:ILE:HG23	1.79	0.65
8:MG:50:ASN:O	8:MG:64:ARG:NH1	2.30	0.65
9:NH:318:ARG:HG2	9:NH:358:PRO:HD3	1.78	0.65
8:OK:212:ILE:HD11	8:OK:275:VAL:HG21	1.78	0.65
8:OK:292:THR:HG21	8:OK:331:ALA:HB1	1.77	0.65
9:OP:203:ASP:HB3	9:OP:301:ALA:HA	1.79	0.65
9:PD:296:ALA:HA	9:PD:299:MET:HE1	1.77	0.65
9:PF:372:THR:HA	9:PF:422:TYR:HE1	1.60	0.65
28:Q1:123:ILE:HD11	12:S6:425:TYR:CE1	2.30	0.65
8:QE:7:ILE:HD13	8:QE:137:ILE:HD12	1.79	0.65
9:RF:299:MET:N	9:RF:299:MET:SD	2.70	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RI:15:GLN:OE1	50:RI:501:GTP:N7	2.30	0.65
12:S5:287:VAL:HA	12:S5:290:VAL:HG12	1.77	0.65
9:SD:48:ASN:O	9:SD:62:ARG:NH2	2.30	0.65
9:SF:8:GLN:HB3	9:SF:65:LEU:HA	1.78	0.65
9:SL:252:LYS:NZ	50:SM:501:GTP:O3G	2.29	0.65
30:U4:124:MET:HA	30:U4:127:LYS:HE3	1.77	0.65
30:U5:110:ARG:HE	30:U6:363:LYS:HE2	1.62	0.65
9:UH:257:MET:HE1	9:UH:314:ALA:HB2	1.79	0.65
8:UK:114:ILE:HG22	8:UK:118:VAL:HG13	1.79	0.65
30:V6:354:LYS:NZ	30:V6:358:GLN:OE1	2.27	0.65
8:VG:50:ASN:O	8:VG:64:ARG:NH1	2.30	0.65
9:VN:249:ASP:H	9:VN:252:LYS:HB2	1.62	0.65
30:W7:184:VAL:HG13	30:W7:222:LEU:HD12	1.78	0.65
8:WI:31:GLN:HG2	8:WI:37:PRO:HD3	1.79	0.65
9:WL:69:GLU:HG2	9:WL:71:GLY:H	1.61	0.65
39:a:167:GLU:HA	39:a:170:ARG:HB2	1.79	0.65
46:i3:1339:CYS:HB3	46:i3:1342:GLU:HB2	1.79	0.65
9:AJ:377:LEU:HA	9:AJ:380:ARG:HE	1.62	0.65
8:BI:57:GLY:HA3	25:V:232:LEU:HD22	1.79	0.65
8:BO:147:SER:OG	8:BO:190:THR:OG1	2.13	0.65
12:C0:120:LEU:HD21	12:C1:441:SER:HA	1.78	0.65
8:CC:292:THR:HG21	8:CC:331:ALA:HB1	1.78	0.65
8:CI:236:SER:O	8:CI:243:ARG:NH1	2.30	0.65
8:CI:329:ASN:HD21	9:CJ:175:VAL:HB	1.62	0.65
8:CM:209:ILE:O	8:CM:213:CYS:HB3	1.97	0.65
8:DO:261:PRO:HG3	8:DO:313:MET:HE1	1.79	0.65
8:EA:269:LEU:HD13	8:EA:303:VAL:HG21	1.79	0.65
9:FD:156:ARG:HD3	9:FD:164:MET:HE2	1.79	0.65
9:FH:48:ASN:O	9:FH:62:ARG:NH2	2.29	0.65
9:IB:47:ILE:HG13	9:IB:51:TYR:HD2	1.60	0.65
9:IB:336:LYS:HE2	36:Y0:52:SER:HA	1.79	0.65
8:IC:350:GLY:HA2	9:ID:179:VAL:HG23	1.78	0.65
9:IF:173:PRO:HG2	9:IF:174:LYS:HD3	1.79	0.65
8:IG:88:HIS:CE1	8:IG:90:GLU:HB2	2.32	0.65
9:IJ:376:GLU:OE2	9:IJ:376:GLU:N	2.29	0.65
8:IO:239:THR:OG1	8:IO:243:ARG:NH1	2.30	0.65
8:JM:172:TYR:HB2	8:JM:203:MET:HB3	1.77	0.65
9:KP:210:ILE:HD11	9:KP:298:ASN:HA	1.78	0.65
9:KP:212:PHE:HB3	6:N1:29:PHE:CE2	2.32	0.65
8:LG:311:LYS:HD3	8:LG:344:VAL:HG12	1.78	0.65
8:LO:392:ASP:O	8:LO:396:ASP:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:M:259:CYS:SG	17:M:260:ALA:N	2.70	0.65
8:MG:27:GLU:OE2	8:MG:243:ARG:NH2	2.30	0.65
9:NJ:189:VAL:HA	9:NJ:192:LEU:HB2	1.77	0.65
9:ON:305:PRO:HD2	36:Y5:205:ARG:HH22	1.61	0.65
8:OO:320:ARG:HD3	8:OO:360:PRO:HG3	1.78	0.65
17:P9:91:SER:HB2	11:R4:223:ARG:HH12	1.62	0.65
9:PF:86:ARG:NH1	9:PF:88:ASP:OD2	2.29	0.65
28:Q4:67:LEU:HD21	12:S8:302:LYS:HE3	1.79	0.65
11:R2:144:ILE:HG12	11:R2:254:LEU:HD21	1.79	0.65
8:RC:292:THR:HG21	8:RC:331:ALA:HB1	1.78	0.65
14:T4:63:ARG:NH1	14:T5:415:ASP:OD2	2.29	0.65
8:TC:56:THR:HG22	8:TC:60:LYS:H	1.61	0.65
8:TC:317:MET:HA	8:TC:317:MET:HE2	1.78	0.65
8:TG:171:ILE:HD13	8:TG:204:VAL:HG13	1.77	0.65
30:V3:361:LEU:HD22	30:V3:455:LEU:HD11	1.79	0.65
9:WN:198:GLU:HB2	9:WN:266:PHE:HE2	1.61	0.65
9:WP:69:GLU:HG2	9:WP:71:GLY:H	1.61	0.65
34:X6:230:TYR:CE2	34:X6:234:LEU:HD23	2.32	0.65
39:a:194:MET:O	39:a:197:ILE:HB	1.97	0.65
39:d:457:ILE:HG22	39:d:461:LYS:HE3	1.78	0.65
42:f:40:ILE:HG13	42:f:49:ILE:HG13	1.79	0.65
4:j1:127:GLU:OE1	4:j1:281:ARG:NH1	2.30	0.65
2:2:514:LYS:HA	6:N1:100:ARG:HE	1.62	0.64
3:3:334:GLU:O	3:3:338:GLU:HG2	1.97	0.64
7:A3:139:GLU:HG3	7:A3:256:GLN:HG3	1.78	0.64
8:AG:326:LYS:HD2	9:AH:220:PRO:HD2	1.78	0.64
9:AH:75:SER:O	31:X:132:ARG:NH2	2.30	0.64
9:AN:324:LYS:HG3	8:AO:222:PRO:HD2	1.80	0.64
9:BD:14:ASN:ND2	9:BD:67:ASP:OD1	2.30	0.64
9:CD:48:ASN:O	9:CD:62:ARG:NH2	2.29	0.64
9:DF:372:THR:HA	9:DF:422:TYR:HE1	1.62	0.64
8:DI:68:VAL:HG12	8:DI:93:ILE:HB	1.79	0.64
8:EM:50:ASN:O	8:EM:64:ARG:NH1	2.30	0.64
9:FD:252:LYS:NZ	50:FE:501:GTP:O3G	2.27	0.64
8:GA:231:ILE:HA	8:GA:234:ILE:HD12	1.79	0.64
8:GA:437:VAL:O	9:GB:391:ARG:NH2	2.30	0.64
9:GH:252:LYS:NZ	50:GI:501:GTP:O3G	2.30	0.64
8:GK:47:ASP:OD1	8:GK:50:ASN:HB2	1.97	0.64
8:GO:7:ILE:HD13	8:GO:137:ILE:HG12	1.79	0.64
8:HI:51:THR:HG21	8:HI:243:ARG:HG2	1.79	0.64
8:IK:243:ARG:HH21	8:IK:244:PHE:HE2	1.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IM:88:HIS:HB2	9:JN:280:GLN:HB3	1.78	0.64
8:IO:188:ILE:O	8:IO:191:THR:HG22	1.97	0.64
19:J2:170:GLY:HA2	8:OE:286:LEU:HB3	1.78	0.64
8:JI:289:ALA:O	8:JI:293:ASN:ND2	2.31	0.64
9:KD:165:ASN:ND2	9:KD:200:TYR:OH	2.30	0.64
9:KN:114:ASP:OD1	9:KN:115:SER:N	2.29	0.64
9:LN:235:GLY:HA3	9:LN:366:THR:HG21	1.78	0.64
9:LN:390:ARG:HE	44:h4:42:LEU:HD21	1.63	0.64
9:LP:273:LEU:O	9:LP:292:GLN:NE2	2.30	0.64
9:MH:156:ARG:NH2	9:MH:197:ASP:OD1	2.27	0.64
9:MP:320:ARG:CZ	9:MP:355:ASP:HB3	2.27	0.64
8:NK:217:LEU:HD11	8:NK:367:ASP:HB2	1.80	0.64
9:NL:172:SER:OG	9:NL:205:GLU:OE1	2.13	0.64
17:O7:292:MET:HE3	17:O7:295:ASN:ND2	2.11	0.64
8:OG:214:ARG:HG3	8:OG:220:GLU:HA	1.77	0.64
9:OH:293:MET:SD	9:OH:367:PHE:HB2	2.37	0.64
9:PF:252:LYS:NZ	8:PG:98:ASP:OD1	2.28	0.64
8:RC:316:CYS:HB3	8:RC:378:LEU:HB2	1.78	0.64
8:RG:320:ARG:HD3	8:RG:360:PRO:HG3	1.79	0.64
14:T2:106:ARG:NH1	14:T3:369:CYS:SG	2.70	0.64
9:TB:36:TYR:CD1	9:TB:44:LEU:HD21	2.33	0.64
8:TC:171:ILE:HD13	8:TC:204:VAL:HG13	1.78	0.64
9:TD:198:GLU:HA	9:TD:264:HIS:HB2	1.79	0.64
25:U:302:VAL:HG12	25:U:304:ASN:H	1.63	0.64
30:U1:177:LEU:HD11	30:U1:232:LEU:HD23	1.80	0.64
30:U8:144:GLN:OE1	30:V4:140:ARG:NH1	2.28	0.64
8:UI:88:HIS:CD2	8:VI:283:HIS:HB3	2.32	0.64
9:VF:22:GLU:HG2	9:VF:81:PHE:HB2	1.79	0.64
8:VK:56:THR:HG23	8:VK:58:ALA:H	1.60	0.64
9:WJ:218:THR:OG1	43:j:228:GLN:NE2	2.30	0.64
34:X7:192:LYS:NZ	34:X7:255:ARG:O	2.30	0.64
34:X8:132:VAL:HB	34:X8:134:ARG:HG3	1.79	0.64
39:c:323:GLN:OE1	39:c:324:ARG:NH1	2.28	0.64
4:5:115:ALA:HB3	4:5:180:MET:HB2	1.79	0.64
9:AJ:45:GLU:OE2	17:L:221:TYR:OH	2.11	0.64
8:AM:239:THR:OG1	8:AM:243:ARG:NH1	2.27	0.64
9:AP:274:THR:O	9:AP:279:GLN:NE2	2.29	0.64
8:BC:239:THR:OG1	8:BC:243:ARG:NH1	2.30	0.64
8:BI:183:GLU:HA	8:BI:186:ASN:HD22	1.59	0.64
9:CF:322:SER:OG	8:CG:222:PRO:O	2.15	0.64
8:DI:212:ILE:HD11	8:DI:300:ASN:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FF:372:THR:HG21	9:FF:426:GLN:HB2	1.78	0.64
8:GA:316:CYS:HB3	8:GA:378:LEU:HB3	1.79	0.64
8:GK:2:ARG:HB2	8:GK:242:LEU:HD21	1.80	0.64
9:GL:374:ILE:HD12	9:GL:377:LEU:HD23	1.80	0.64
8:GO:298:PRO:HA	8:GO:301:GLN:HG2	1.79	0.64
8:HO:241:SER:HB3	8:HO:250:VAL:H	1.62	0.64
8:IC:269:LEU:HD22	8:IC:303:VAL:HG21	1.78	0.64
9:IL:324:LYS:HD2	8:IM:222:PRO:HD2	1.78	0.64
8:IO:214:ARG:NH1	8:IO:220:GLU:O	2.30	0.64
9:IP:104:GLY:CA	9:IP:147:MET:HE2	2.27	0.64
8:JI:28:HIS:NE2	8:JI:48:SER:OG	2.26	0.64
8:JQ:211:ASP:OD1	8:JQ:214:ARG:NH2	2.31	0.64
8:KA:214:ARG:HB2	8:KA:215:ARG:HH21	1.61	0.64
9:KB:62:ARG:NH1	9:KB:127:CYS:SG	2.70	0.64
9:KD:245:GLN:O	8:KE:11:GLN:NE2	2.30	0.64
9:KF:404:ASP:OD2	41:b3:131:ARG:NH2	2.30	0.64
8:KI:56:THR:HA	8:LI:285:GLN:HB2	1.79	0.64
21:L1:144:PRO:HD2	21:L1:144:PRO:O	1.97	0.64
9:LD:256:ASN:HD21	8:LE:181:VAL:H	1.45	0.64
22:M3:4:ARG:HG3	22:M3:22:LEU:HD21	1.79	0.64
9:MB:119:VAL:HA	9:MB:122:LYS:HD3	1.77	0.64
9:NH:125:GLU:OE2	9:OH:336:LYS:NZ	2.30	0.64
9:NJ:344:TRP:CZ3	8:NK:401:LYS:HB2	2.32	0.64
9:NJ:363:MET:HE3	9:NJ:364:SER:H	1.60	0.64
24:O4:21:LEU:HD11	24:O4:29:PHE:HB3	1.79	0.64
8:PC:155:GLU:OE1	8:PC:156:ARG:NH1	2.30	0.64
9:PD:267:MET:N	9:PD:267:MET:SD	2.70	0.64
11:R3:328:GLU:N	11:R3:328:GLU:OE2	2.30	0.64
8:RE:271:THR:HB	8:RE:377:MET:HB3	1.78	0.64
12:S0:72:SER:HA	12:S0:75:VAL:HG22	1.78	0.64
12:S2:283:TYR:HA	12:S3:394:LYS:HE3	1.77	0.64
8:SE:53:PHE:HB3	8:SE:61:HIS:HB3	1.78	0.64
9:TL:292:GLN:NE2	9:TL:293:MET:SD	2.71	0.64
30:U0:242:ASP:HB3	30:U0:310:MET:HE1	1.79	0.64
8:UO:1:MET:SD	8:UO:2:ARG:NH1	2.70	0.64
30:V4:145:ARG:HH12	30:V4:293:PRO:HB3	1.61	0.64
30:V4:225:CYS:SG	30:V4:332:MET:CE	2.85	0.64
9:VB:276:ARG:NH1	39:a:355:GLU:OE1	2.31	0.64
8:WK:31:GLN:HG2	8:WK:37:PRO:HD3	1.78	0.64
44:h1:46:SER:OG	44:h1:49:GLN:NE2	2.30	0.64
46:i2:1351:ASP:HA	46:i2:1358:ILE:HD13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AA:40:LYS:HB3	25:T:188:ARG:HH21	1.62	0.64
9:AH:262:ARG:NH2	37:YD:231:MET:SD	2.70	0.64
11:B0:39:ARG:NH2	11:B1:292:GLU:O	2.30	0.64
9:BL:134:GLN:HB2	9:BL:165:ASN:HB2	1.78	0.64
9:EN:48:ASN:O	9:EN:62:ARG:NH2	2.30	0.64
9:EN:247:ASN:O	9:EN:252:LYS:NZ	2.30	0.64
8:FC:254:GLU:HG2	9:FD:98:GLY:HA2	1.78	0.64
8:FG:381:THR:HG23	8:FG:383:ALA:H	1.63	0.64
9:FL:216:LYS:HD3	25:O5:462:ILE:HD11	1.79	0.64
8:GC:298:PRO:HA	8:GC:301:GLN:HG2	1.79	0.64
8:GC:340:THR:HG1	36:Y3:29:LYS:HZ3	1.42	0.64
9:GH:173:PRO:HG3	9:GH:380:ARG:HH11	1.62	0.64
8:HM:237:SER:HA	8:HM:320:ARG:HH11	1.61	0.64
9:JB:7:LEU:N	9:JB:134:GLN:O	2.29	0.64
9:JB:345:ILE:HA	8:JC:398:MET:HE1	1.77	0.64
8:KE:53:PHE:HB3	8:KE:61:HIS:HB3	1.79	0.64
9:KL:323:MET:HE3	9:KL:323:MET:H	1.62	0.64
8:LI:56:THR:HA	8:MI:285:GLN:HB2	1.78	0.64
9:MJ:156:ARG:HH22	9:MJ:196:THR:HA	1.60	0.64
9:MN:122:LYS:HZ3	37:YG:28:VAL:HG13	1.62	0.64
6:N1:39:LEU:HA	6:N1:42:ARG:HG2	1.80	0.64
9:NL:54:ALA:HB3	9:NL:58:LYS:HB3	1.79	0.64
9:NN:278:SER:HA	9:NN:282:ARG:CZ	2.27	0.64
9:OD:292:GLN:HA	9:OD:295:ASP:HB2	1.80	0.64
9:PH:284:LEU:O	9:PH:362:LYS:NZ	2.31	0.64
9:QD:130:LEU:HD21	9:QD:133:PHE:HE1	1.62	0.64
8:QE:203:MET:N	8:QE:203:MET:SD	2.71	0.64
8:QM:50:ASN:O	8:QM:64:ARG:NH1	2.31	0.64
8:QM:326:LYS:NZ	9:QN:219:THR:HA	2.10	0.64
8:QM:326:LYS:NZ	9:QN:220:PRO:HD2	2.12	0.64
11:R3:331:ARG:HD3	11:R3:336:TYR:CE2	2.32	0.64
8:RG:50:ASN:O	8:RG:64:ARG:NH1	2.31	0.64
8:SC:27:GLU:OE1	8:SC:243:ARG:NH2	2.30	0.64
8:SE:50:ASN:O	8:SE:64:ARG:NH1	2.31	0.64
8:TA:233:GLN:HB3	8:TA:272:TYR:HE2	1.62	0.64
30:U2:79:LEU:HB2	30:U2:82:LEU:HB2	1.77	0.64
8:UA:169:PHE:HE1	8:UA:235:VAL:HG22	1.61	0.64
9:UB:58:LYS:NZ	9:VB:280:GLN:O	2.27	0.64
9:UJ:216:LYS:HB2	9:UJ:276:ARG:HH12	1.62	0.64
30:V1:365:LEU:HA	30:V1:368:ILE:HD12	1.78	0.64
9:VB:48:ASN:O	9:VB:62:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VJ:270:PHE:HB3	9:VJ:273:LEU:HD11	1.77	0.64
9:VL:322:SER:OG	8:VM:222:PRO:O	2.15	0.64
30:W0:159:GLU:OE1	30:W0:304:ILE:HG23	1.95	0.64
30:W6:201:ARG:HD2	30:W6:205:ASP:HB3	1.80	0.64
8:WA:239:THR:HG22	8:WA:243:ARG:HG3	1.80	0.64
9:WD:165:ASN:HB3	9:WD:200:TYR:HE2	1.62	0.64
9:WJ:51:TYR:HB3	9:WJ:59:TYR:HB3	1.80	0.64
42:e:382:PHE:O	42:e:384:ARG:NH2	2.29	0.64
9:AN:318:ARG:HD3	9:AN:358:PRO:HD3	1.79	0.64
11:B4:200:SER:O	11:B4:202:LYS:NZ	2.31	0.64
8:BG:254:GLU:O	8:BG:258:ASN:ND2	2.29	0.64
9:BL:213:ARG:HE	9:BL:297:LYS:HD3	1.62	0.64
9:CD:131:GLN:HE21	9:CD:250:LEU:HB2	1.61	0.64
9:CD:355:ASP:OD2	27:P4:20:SER:N	2.30	0.64
8:CE:147:SER:OG	8:CE:190:THR:OG1	2.15	0.64
14:D1:179:GLU:OE1	14:D1:434:ARG:NH2	2.30	0.64
14:D4:238:VAL:HG12	14:D5:351:ARG:HG2	1.78	0.64
9:DD:48:ASN:O	9:DD:62:ARG:NH2	2.31	0.64
8:EE:56:THR:HA	8:FE:285:GLN:HB2	1.79	0.64
8:FG:50:ASN:O	8:FG:64:ARG:NH1	2.30	0.64
8:GK:2:ARG:HB3	8:GK:133:GLN:HE21	1.63	0.64
9:HB:170:VAL:HG21	9:HB:377:LEU:HD12	1.79	0.64
8:HC:217:LEU:HD21	8:HC:275:VAL:HB	1.79	0.64
9:HP:376:GLU:HG2	9:HP:380:ARG:HH21	1.62	0.64
8:IA:113:GLU:HG3	8:IA:114:ILE:HG12	1.80	0.64
8:JC:4:CYS:HB3	8:JC:136:LEU:HD11	1.79	0.64
8:JQ:3:GLU:O	8:JQ:133:GLN:N	2.30	0.64
8:LC:207:GLU:HA	8:LC:210:TYR:HB2	1.79	0.64
8:MO:2:ARG:HB2	8:MO:242:LEU:HD21	1.79	0.64
9:NB:207:LEU:HD22	9:NB:228:LEU:HD11	1.79	0.64
8:NE:7:ILE:HA	8:NE:66:VAL:HG12	1.80	0.64
9:NF:81:PHE:HD2	9:NF:84:ILE:HG13	1.61	0.64
8:NM:316:CYS:HB2	8:NM:378:LEU:HB2	1.80	0.64
8:OA:3:GLU:H	8:OA:133:GLN:HG2	1.61	0.64
8:OA:264:ARG:HH12	8:OA:428:LEU:HA	1.62	0.64
8:OI:88:HIS:CE1	8:OI:90:GLU:HB3	2.33	0.64
8:OM:35:GLN:HG2	8:OM:60:LYS:HZ3	1.62	0.64
9:OP:102:ALA:HB2	9:OP:403:MET:HE2	1.79	0.64
9:PF:207:LEU:HB3	9:PF:225:LEU:HD22	1.80	0.64
9:QD:48:ASN:O	9:QD:62:ARG:NH2	2.31	0.64
8:QI:50:ASN:O	8:QI:64:ARG:NH1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QN:331:LEU:O	9:QN:335:ASN:ND2	2.31	0.64
12:S1:415:MET:H	12:S1:415:MET:HE3	1.62	0.64
9:SB:269:GLY:HA2	9:SB:300:MET:HE1	1.78	0.64
9:TD:1:MET:SD	9:TD:2:ARG:N	2.71	0.64
8:TG:320:ARG:HD3	8:TG:360:PRO:HG3	1.80	0.64
9:TN:167:PHE:CE2	9:TN:233:MET:HB3	2.33	0.64
9:TN:376:GLU:HG2	9:TN:380:ARG:HH12	1.63	0.64
9:UB:324:LYS:HG3	8:UC:222:PRO:HD2	1.77	0.64
9:UD:198:GLU:HA	9:UD:264:HIS:HB2	1.78	0.64
8:UK:320:ARG:HD3	8:UK:360:PRO:HG3	1.80	0.64
8:VK:292:THR:HG21	8:VK:331:ALA:HB1	1.79	0.64
30:W2:357:LEU:HD13	30:W2:454:GLU:HG3	1.80	0.64
8:WK:50:ASN:O	8:WK:64:ARG:NH1	2.30	0.64
42:g:170:ARG:HH22	42:g:186:GLU:HG3	1.61	0.64
43:h:104:ASN:OD1	43:h:107:ASN:ND2	2.30	0.64
4:j1:361:ARG:HD2	4:j1:371:ASN:HB2	1.79	0.64
2:2:277:ARG:NH2	8:II:359:PRO:HD2	2.10	0.64
4:6:114:LEU:HD21	4:6:237:MET:HG2	1.80	0.64
8:AC:56:THR:HA	8:BC:285:GLN:HB2	1.80	0.64
9:AL:322:SER:H	8:AM:221:ARG:NH2	1.95	0.64
9:AN:372:THR:HA	9:AN:422:TYR:CE2	2.33	0.64
8:AO:203:MET:N	8:AO:203:MET:SD	2.69	0.64
8:BI:182:VAL:HG13	8:BI:186:ASN:HD21	1.63	0.64
8:BM:51:THR:HG21	8:BM:243:ARG:HG2	1.80	0.64
8:CG:295:CYS:HB3	8:CG:377:MET:HE2	1.78	0.64
9:DD:323:MET:HE1	9:DD:353:VAL:HG21	1.79	0.64
9:EB:173:PRO:HG2	9:EB:174:LYS:HD3	1.80	0.64
9:FB:1:MET:N	9:FB:128:ASP:OD1	2.30	0.64
8:FE:36:MET:N	8:FE:36:MET:SD	2.71	0.64
8:FE:70:LEU:HB3	8:FE:98:ASP:HA	1.79	0.64
8:FG:437:VAL:O	9:FH:391:ARG:NH2	2.30	0.64
8:FI:315:CYS:HB3	8:FI:377:MET:HE1	1.80	0.64
8:FO:171:ILE:HD11	50:FO:501:GTP:HN22	1.63	0.64
8:HA:320:ARG:HD3	8:HA:360:PRO:HG3	1.80	0.64
9:HN:344:TRP:CD1	9:HN:345:ILE:HG13	2.32	0.64
8:IE:395:PHE:HE2	8:IE:422:ARG:HB2	1.63	0.64
9:IF:324:LYS:HG2	8:IG:210:TYR:CE2	2.33	0.64
19:J4:222:GLN:HA	19:J4:225:LYS:HE3	1.80	0.64
9:JF:49:VAL:HG11	9:JF:241:ARG:HG2	1.78	0.64
20:K2:55:MET:N	20:K2:55:MET:SD	2.70	0.64
9:KB:46:ARG:NH2	8:KC:76:ASP:OD2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LA:292:THR:HG21	8:LA:331:ALA:HB1	1.78	0.64
9:LH:139:LEU:HA	9:LH:145:SER:HB3	1.80	0.64
9:LJ:242:PHE:HB3	9:LJ:356:ILE:HD13	1.79	0.64
8:LK:306:ASP:OD2	8:LK:308:ARG:NH1	2.31	0.64
8:MC:53:PHE:O	8:MC:64:ARG:NH1	2.30	0.64
9:MN:74:ASP:OD1	9:MN:74:ASP:N	2.30	0.64
9:NF:167:PHE:HE1	9:NF:233:MET:HB3	1.61	0.64
9:OH:28:HIS:CE1	9:OH:241:ARG:HD2	2.32	0.64
9:OH:204:ASN:HA	9:OH:207:LEU:HD12	1.80	0.64
9:OJ:46:ARG:HG2	9:OJ:241:ARG:HA	1.79	0.64
26:P2:88:SER:HB2	26:P2:93:VAL:HG21	1.79	0.64
9:PD:198:GLU:HA	9:PD:264:HIS:HB2	1.80	0.64
9:QB:257:MET:HE3	9:QB:314:ALA:HB2	1.80	0.64
9:QH:350:LYS:HD2	8:QI:180:ALA:HA	1.78	0.64
8:QO:179:THR:HG1	50:QO:501:GTP:HO3'	1.45	0.64
8:SK:5:ILE:HD12	8:SK:125:LEU:HD13	1.80	0.64
8:TA:360:PRO:O	8:TA:370:LYS:NZ	2.31	0.64
9:TB:68:LEU:HB3	9:TB:96:GLY:HA2	1.78	0.64
9:TH:1:MET:N	9:TH:3:GLU:OE1	2.30	0.64
9:TH:8:GLN:HB3	9:TH:65:LEU:HA	1.79	0.64
30:U6:93:ARG:HH22	30:W2:246:ALA:HA	1.63	0.64
8:UG:50:ASN:O	8:UG:64:ARG:NH1	2.31	0.64
8:UG:316:CYS:HB3	8:UG:378:LEU:HB2	1.78	0.64
8:UM:371:VAL:HG12	8:UM:373:ARG:H	1.62	0.64
30:V5:239:GLN:NE2	30:V5:243:ASN:OD1	2.29	0.64
9:VF:244:GLY:HA3	9:VF:354:CYS:HA	1.79	0.64
9:VJ:299:MET:N	9:VJ:299:MET:SD	2.70	0.64
31:Z:367:LYS:HD3	40:a4:75:VAL:HG21	1.80	0.64
42:g:78:TYR:HB3	42:g:95:LEU:HD11	1.79	0.64
43:k:193:ARG:HH12	43:k:248:LYS:HD3	1.62	0.64
7:A2:176:ARG:NH1	12:C1:279:GLU:OE2	2.30	0.64
8:AC:88:HIS:HE1	8:BC:280:LYS:HE3	1.62	0.64
9:AF:117:LEU:HA	9:AF:120:VAL:HG22	1.80	0.64
10:B:131:ALA:HB2	10:C:464:PRO:HD3	1.80	0.64
9:BL:215:LEU:HB3	9:BL:217:LEU:HD23	1.80	0.64
12:C1:95:THR:HG22	12:C1:97:ASP:H	1.63	0.64
8:DE:53:PHE:O	8:DE:64:ARG:NH1	2.31	0.64
8:DI:325:PRO:O	8:DI:329:ASN:ND2	2.30	0.64
9:DL:215:LEU:HB3	9:DL:217:LEU:HD23	1.78	0.64
15:F:103:GLN:HG2	6:N1:51:MET:CE	2.27	0.64
8:FC:139:HIS:NE2	8:FC:168:GLU:OE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FI:388:TRP:HB3	8:FI:425:LEU:HD21	1.79	0.64
8:FO:139:HIS:O	8:FO:170:ALA:HA	1.97	0.64
9:HJ:247:ASN:ND2	8:HK:11:GLN:OE1	2.31	0.64
9:IJ:247:ASN:ND2	8:IK:11:GLN:OE1	2.31	0.64
9:JB:6:HIS:HD2	9:JB:21:TRP:NE1	1.96	0.64
9:JL:252:LYS:HD3	8:JM:100:ALA:HA	1.80	0.64
9:JL:323:MET:N	9:JL:323:MET:SD	2.65	0.64
9:JN:26:ASP:N	9:JN:26:ASP:OD1	2.28	0.64
8:KM:321:GLY:HA3	8:KM:373:ARG:HA	1.80	0.64
8:LC:159:VAL:HG23	45:l:109:LEU:HB3	1.79	0.64
9:LL:299:MET:N	9:LL:299:MET:SD	2.71	0.64
9:MF:5:VAL:HG22	9:MF:62:ARG:HD2	1.78	0.64
9:MP:48:ASN:O	9:MP:62:ARG:NH2	2.31	0.64
8:NA:119:LEU:HA	8:NA:122:ILE:HG12	1.80	0.64
9:NB:337:ASN:HB3	9:NB:340:TYR:HD2	1.63	0.64
9:NN:334:GLN:HE22	9:NN:347:ASN:HA	1.63	0.64
9:OH:48:ASN:O	9:OH:62:ARG:NH2	2.30	0.64
9:ON:306:ARG:HH11	36:Y5:204:ALA:H	1.46	0.64
8:PM:275:VAL:HA	8:PM:368:LEU:HD11	1.79	0.64
8:QI:147:SER:OG	8:QI:190:THR:OG1	2.11	0.64
9:QJ:252:LYS:HD3	8:QK:100:ALA:HA	1.79	0.64
11:R2:152:GLN:OE1	14:T3:429:LYS:NZ	2.31	0.64
12:S8:118:GLU:OE1	12:S8:121:ARG:NE	2.31	0.64
9:SD:2:ARG:HH21	8:SE:72:PRO:HD2	1.62	0.64
14:T3:357:LEU:HG	14:T3:377:LEU:HD23	1.78	0.64
8:TE:2:ARG:HB2	8:TE:242:LEU:HD21	1.78	0.64
9:TH:292:GLN:OE1	9:TH:298:ASN:ND2	2.31	0.64
9:TN:363:MET:HE3	9:TN:363:MET:HA	1.78	0.64
30:U2:426:THR:HB	30:U3:127:LYS:HE2	1.79	0.64
30:U3:399:ARG:NH2	30:U3:410:ASP:OD1	2.30	0.64
30:U7:123:ILE:HG22	30:U7:127:LYS:HE2	1.77	0.64
8:UK:326:LYS:NZ	9:UL:211:CYS:SG	2.71	0.64
25:V:239:ASP:HA	25:V:269:MET:HG2	1.80	0.64
30:V0:368:ILE:HG22	30:V0:444:LEU:HB3	1.80	0.64
30:V0:390:LYS:HB2	30:V1:279:PHE:HA	1.80	0.64
30:V2:430:LEU:HD22	30:V2:433:ARG:HH22	1.63	0.64
30:W7:241:ARG:HG3	30:W7:244:ARG:HH21	1.62	0.64
9:WH:322:SER:OG	8:WI:222:PRO:O	2.15	0.64
37:YH:175:ARG:NH1	37:YH:175:ARG:O	2.28	0.64
31:Z:366:THR:HG21	40:a4:78:VAL:HG21	1.79	0.64
41:b2:182:ARG:O	41:b2:190:LYS:NZ	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A5:49:GLU:O	7:A5:53:ARG:HG2	1.98	0.64
9:AJ:257:MET:HA	9:AJ:257:MET:HE3	1.80	0.64
9:AP:48:ASN:O	9:AP:62:ARG:NH2	2.31	0.64
8:BG:254:GLU:HG2	9:BH:98:GLY:HA2	1.78	0.64
8:CC:437:VAL:O	9:CD:391:ARG:NH2	2.26	0.64
8:CE:226:ASN:HD21	17:I:297:ALA:HB1	1.63	0.64
14:D2:71:ARG:HA	14:D3:328:GLU:OE2	1.97	0.64
8:EA:276:ILE:HD11	8:EA:280:LYS:HG3	1.80	0.64
8:EE:269:LEU:HD22	8:EE:303:VAL:HG21	1.79	0.64
9:EJ:173:PRO:HG3	9:EJ:380:ARG:HD3	1.78	0.64
8:FI:14:VAL:HG12	8:FI:67:PHE:HD2	1.62	0.64
8:FM:70:LEU:HB3	8:FM:98:ASP:HA	1.78	0.64
9:GF:273:LEU:O	9:GF:292:GLN:NE2	2.30	0.64
9:HF:332:ASN:ND2	49:y:133:THR:O	2.31	0.64
9:HL:8:GLN:HE21	9:HL:14:ASN:HA	1.63	0.64
9:IB:133:PHE:HZ	9:IB:159:TYR:HD2	1.44	0.64
8:IK:239:THR:HB	8:IK:243:ARG:NH1	2.11	0.64
8:JG:346:TRP:CD1	9:JH:391:ARG:HD2	2.33	0.64
8:JI:338:LYS:HD3	8:JI:340:THR:H	1.63	0.64
8:KE:50:ASN:O	8:KE:64:ARG:NH1	2.30	0.64
8:LE:264:ARG:NH1	8:LE:431:ASP:OD2	2.31	0.64
9:MB:257:MET:HE3	9:MB:314:ALA:HB2	1.78	0.64
9:MD:237:THR:HG22	9:MD:250:LEU:HD21	1.78	0.64
6:N1:24:ASP:O	6:N1:28:ASN:ND2	2.30	0.64
9:NH:372:THR:HA	9:NH:422:TYR:HE1	1.61	0.64
9:NH:398:TYR:HB3	9:NH:403:MET:HE3	1.79	0.64
8:NO:292:THR:HG21	8:NO:331:ALA:HB1	1.79	0.64
27:P3:86:PHE:O	27:P3:87:PHE:CD2	2.51	0.64
27:P3:134:CYS:CB	27:P3:153:LEU:HB2	2.28	0.64
28:Q3:19:GLU:OE1	28:Q3:19:GLU:N	2.29	0.64
9:QB:48:ASN:O	9:QB:62:ARG:NH2	2.29	0.64
9:QJ:252:LYS:NZ	8:QK:98:ASP:OD2	2.31	0.64
8:QO:203:MET:H	8:QO:203:MET:HE3	1.60	0.64
8:QO:239:THR:OG1	8:QO:243:ARG:NH1	2.31	0.64
8:RG:6:SER:HB3	8:RG:8:HIS:NE2	2.12	0.64
25:T:341:THR:HB	40:a1:151:PRO:HG2	1.80	0.64
8:TA:80:THR:HA	8:TA:84:ARG:HH12	1.62	0.64
8:TE:311:LYS:H	8:TE:382:THR:HG22	1.63	0.64
8:TG:70:LEU:HB3	8:TG:98:ASP:HA	1.80	0.64
8:UC:320:ARG:HD3	8:UC:360:PRO:HG3	1.79	0.64
8:UG:251:ASP:OD1	8:UG:252:LEU:N	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V0:351:THR:O	30:V0:355:ASN:ND2	2.30	0.64
30:V3:416:LEU:HA	30:V3:419:GLU:HG2	1.80	0.64
9:VN:289:LEU:HD21	9:VN:365:ALA:HB3	1.79	0.64
37:YE:182:ASN:HD21	37:YE:233:PRO:HD3	1.63	0.64
42:g:404:GLU:OE2	43:k:9:SER:N	2.31	0.64
46:i4:1344:LEU:HG	46:i4:1348:LYS:HE3	1.80	0.64
4:5:56:MET:HE2	4:5:65:PHE:CD2	2.33	0.64
6:A:43:ARG:HB3	9:JF:77:ARG:NH1	2.13	0.64
8:AO:50:ASN:O	8:AO:64:ARG:NH1	2.31	0.64
10:B:133:MET:SD	8:HG:372:GLN:HG3	2.37	0.64
9:BN:273:LEU:O	9:BN:292:GLN:NE2	2.29	0.64
12:C1:144:GLN:OE1	12:C1:145:ASN:ND2	2.31	0.64
8:CI:90:GLU:OE1	8:CI:121:ARG:NH1	2.31	0.64
14:D3:81:SER:HB2	14:D4:339:LEU:HD11	1.80	0.64
14:D4:192:ARG:HA	28:Q4:28:ARG:HH22	1.62	0.64
9:DB:321:MET:HE3	9:DB:363:MET:SD	2.38	0.64
8:DK:347:CYS:HA	9:DL:388:MET:HE1	1.80	0.64
8:EM:53:PHE:HB3	8:EM:61:HIS:HB3	1.80	0.64
8:FC:7:ILE:HD13	8:FC:137:ILE:HG13	1.79	0.64
8:FE:172:TYR:HB2	8:FE:203:MET:HB3	1.80	0.64
9:FJ:62:ARG:NH1	9:FJ:127:CYS:SG	2.71	0.64
9:FJ:207:LEU:HD23	9:FJ:225:LEU:HB3	1.79	0.64
8:GG:297:GLU:O	8:GG:301:GLN:NE2	2.28	0.64
9:GN:54:ALA:HB3	9:GN:58:LYS:HB2	1.80	0.64
9:HH:222:TYR:O	9:HH:226:ASN:ND2	2.30	0.64
8:IC:435:VAL:HA	9:ID:391:ARG:HH21	1.63	0.64
8:II:422:ARG:NH1	8:II:422:ARG:O	2.31	0.64
9:IJ:86:ARG:NH1	9:IJ:89:ASN:OD1	2.28	0.64
8:IK:235:VAL:HA	8:IK:238:ILE:HD12	1.79	0.64
19:J2:220:SER:HA	9:KF:156:ARG:HH21	1.62	0.64
19:J5:28:ILE:HB	19:J5:83:PHE:HB3	1.79	0.64
9:JD:350:LYS:HE3	8:JE:101:ASN:HD22	1.62	0.64
8:JE:172:TYR:HB2	8:JE:203:MET:HB3	1.80	0.64
8:JM:56:THR:HG22	8:KK:285:GLN:HB2	1.80	0.64
9:JN:73:MET:HA	9:JN:76:VAL:HG22	1.80	0.64
8:KC:437:VAL:O	9:KD:391:ARG:NH2	2.30	0.64
8:KE:388:TRP:HB3	8:KE:425:LEU:HD11	1.80	0.64
8:KM:53:PHE:HB3	8:KM:61:HIS:HB3	1.80	0.64
9:MD:262:ARG:NH2	9:MD:417:ASP:OD2	2.30	0.64
9:MF:237:THR:HG22	9:MF:250:LEU:HD21	1.79	0.64
8:NI:204:VAL:HB	8:NI:302:MET:HE3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OH:28:HIS:HE1	9:OH:241:ARG:HD2	1.62	0.64
9:PN:325:GLU:HA	9:PN:328:GLU:HB3	1.80	0.64
28:Q4:145:ARG:HG2	12:S8:109:GLU:OE2	1.98	0.64
8:QE:50:ASN:O	8:QE:64:ARG:NH1	2.30	0.64
8:QI:88:HIS:NE2	8:QI:90:GLU:HB3	2.12	0.64
8:RM:171:ILE:HD13	8:RM:204:VAL:HG13	1.78	0.64
9:SF:299:MET:N	9:SF:299:MET:SD	2.71	0.64
9:SJ:1:MET:SD	9:SJ:2:ARG:N	2.71	0.64
9:SN:337:ASN:HB3	9:SN:340:TYR:HD2	1.63	0.64
8:TA:320:ARG:HD3	8:TA:360:PRO:HG3	1.80	0.64
9:TL:293:MET:HE2	9:TL:367:PHE:HB3	1.80	0.64
30:U6:79:LEU:HB2	30:U6:82:LEU:HD12	1.79	0.64
8:VC:317:MET:HB3	8:VC:353:VAL:HA	1.79	0.64
9:VH:68:LEU:HD13	9:VH:93:GLY:HA3	1.80	0.64
9:VJ:61:PRO:HD3	9:VJ:84:ILE:HG22	1.79	0.64
8:VO:264:ARG:NH1	8:VO:431:ASP:OD2	2.31	0.64
9:WF:69:GLU:HG2	9:WF:71:GLY:H	1.62	0.64
9:WF:276:ARG:HG3	43:i:211:PHE:HE1	1.62	0.64
34:X6:115:LEU:HD21	34:X6:143:LEU:HD11	1.80	0.64
43:k:189:SER:HB3	43:k:192:GLU:HB3	1.79	0.64
7:A0:334:GLN:O	7:A0:338:ILE:HG12	1.97	0.64
9:AD:173:PRO:HG3	9:AD:380:ARG:HD2	1.78	0.64
8:BK:276:ILE:HD11	8:BK:286:LEU:HD11	1.80	0.64
12:C3:90:PHE:CE2	17:P9:183:ARG:HB3	2.33	0.64
12:C5:406:ARG:HH11	12:C5:411:LEU:HA	1.63	0.64
8:CQ:64:ARG:HG2	8:CQ:125:LEU:HD11	1.80	0.64
14:D3:257:TRP:O	14:D3:261:ASN:ND2	2.31	0.64
14:D4:447:GLN:OE1	9:LN:37:HIS:ND1	2.30	0.64
9:DP:252:LYS:NZ	50:DQ:501:GTP:O3G	2.29	0.64
15:F:6:TYR:HB3	15:F:10:VAL:HG21	1.79	0.64
8:FE:50:ASN:O	8:FE:64:ARG:NH1	2.31	0.64
9:FJ:318:ARG:HG2	9:FJ:358:PRO:HD3	1.79	0.64
9:GB:73:MET:N	9:GB:73:MET:SD	2.71	0.64
8:GI:239:THR:OG1	8:GI:243:ARG:NH1	2.31	0.64
8:GM:252:LEU:HA	8:GM:255:PHE:CE1	2.33	0.64
9:IF:48:ASN:O	9:IF:62:ARG:NH2	2.31	0.64
8:KK:31:GLN:HG2	8:KK:35:GLN:H	1.61	0.64
9:KP:269:GLY:HA2	9:KP:300:MET:HE1	1.80	0.64
8:MO:433:GLU:OE1	45:i1:61:TRP:NE1	2.30	0.64
8:NK:2:ARG:HD2	8:NK:2:ARG:H	1.63	0.64
8:OA:121:ARG:HA	8:OA:124:LYS:HE2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OA:342:GLN:NE2	8:OA:343:PHE:O	2.31	0.64
9:OD:167:PHE:CE2	9:OD:233:MET:HG2	2.32	0.64
17:P9:91:SER:O	17:P9:93:LYS:NZ	2.27	0.64
9:PN:8:GLN:HB3	9:PN:65:LEU:HA	1.78	0.64
8:QK:50:ASN:O	8:QK:64:ARG:NH1	2.31	0.64
9:RD:156:ARG:NH1	9:RD:197:ASP:OD1	2.28	0.64
9:RH:299:MET:N	9:RH:299:MET:SD	2.71	0.64
9:RP:372:THR:HA	9:RP:422:TYR:HE1	1.62	0.64
12:S1:202:ARG:NH1	12:S1:469:ASP:OD1	2.31	0.64
12:S8:118:GLU:HA	12:S8:121:ARG:HE	1.63	0.64
9:SJ:68:LEU:HB3	9:SJ:96:GLY:HA2	1.80	0.64
14:T0:238:VAL:HG22	14:T1:355:THR:HG21	1.80	0.64
8:UA:23:LEU:HD21	8:UA:236:SER:HB2	1.80	0.64
30:V1:415:ARG:NH2	30:V2:134:MET:SD	2.68	0.64
30:V3:399:ARG:O	30:V3:402:ARG:NE	2.29	0.64
8:VK:121:ARG:HA	8:VK:124:LYS:HE2	1.80	0.64
31:W:706:ASP:HB3	31:W:708:GLN:HE21	1.63	0.64
9:WF:238:THR:HG22	9:WF:241:ARG:HH21	1.62	0.64
8:WG:40:LYS:HE3	42:f:238:LEU:HA	1.79	0.64
42:e:458:LYS:NZ	42:e:460:HIS:O	2.27	0.64
47:p:339:ASP:HA	47:p:342:ILE:HD12	1.80	0.64
47:p:499:ARG:HD2	47:p:525:CYS:H	1.63	0.64
1:7:75:MET:HE2	9:JD:80:PRO:HG3	1.79	0.64
7:A5:4:LEU:O	7:A5:5:LEU:C	2.41	0.64
9:BF:48:ASN:O	9:BF:62:ARG:NH2	2.31	0.64
9:CB:173:PRO:HD3	9:CB:380:ARG:NH1	2.13	0.64
9:CP:8:GLN:HE21	9:CP:14:ASN:HA	1.62	0.64
14:D4:245:SER:OG	12:S8:51:ARG:NH1	2.31	0.64
9:EB:58:LYS:NZ	9:FB:280:GLN:O	2.29	0.64
9:EN:130:LEU:O	9:EN:162:ARG:NH1	2.30	0.64
15:F:177:LEU:HA	9:KP:276:ARG:HH22	1.63	0.64
8:FA:437:VAL:O	9:FB:391:ARG:NH2	2.30	0.64
9:FD:68:LEU:HB3	9:FD:96:GLY:HA2	1.80	0.64
9:GB:48:ASN:O	9:GB:62:ARG:NH2	2.31	0.64
8:GE:250:VAL:HA	8:GE:254:GLU:OE1	1.96	0.64
17:H:257:PRO:HB3	22:M1:147:TYR:HA	1.80	0.64
8:IE:297:GLU:OE2	8:IE:300:ASN:ND2	2.31	0.64
9:IH:42:LEU:HA	9:IH:45:GLU:HG2	1.79	0.64
9:IN:113:VAL:HA	9:IN:116:VAL:HG22	1.79	0.64
9:IN:132:GLY:HA3	9:IN:163:ILE:HG22	1.80	0.64
9:IP:133:PHE:HB2	9:IP:164:MET:HE1	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JD:285:THR:OG1	9:JD:287:PRO:HD2	1.97	0.64
9:JP:52:ASN:OD1	9:JP:62:ARG:NH1	2.30	0.64
8:KO:264:ARG:NH1	8:KO:431:ASP:OD2	2.31	0.64
8:LC:31:GLN:HG2	8:LC:37:PRO:HD3	1.80	0.64
8:MA:53:PHE:O	8:MA:64:ARG:NH1	2.31	0.64
8:MM:316:CYS:HB3	8:MM:378:LEU:HB2	1.78	0.64
9:ND:131:GLN:OE1	9:ND:251:ARG:NH2	2.28	0.64
9:NJ:113:VAL:HG11	9:NJ:150:LEU:HD23	1.80	0.64
8:NO:431:ASP:HA	8:NO:434:GLU:HG2	1.80	0.64
25:O5:389:LEU:HD23	25:O5:392:ASP:H	1.61	0.64
8:OM:70:LEU:HB3	8:OM:98:ASP:HA	1.79	0.64
26:P2:111:LYS:HG2	26:P2:116:ARG:HG2	1.80	0.64
28:Q1:18:LEU:HB2	12:S4:386:ILE:HG21	1.79	0.64
8:RC:88:HIS:ND1	8:RC:90:GLU:OE1	2.31	0.64
9:RH:256:ASN:HD21	8:RI:181:VAL:H	1.46	0.64
12:S9:382:ILE:O	12:S9:386:ILE:HG12	1.98	0.64
8:SE:25:CYS:HA	8:SE:30:ILE:HD13	1.80	0.64
9:SH:362:LYS:HD2	9:SH:363:MET:HG2	1.80	0.64
9:SL:311:LEU:HG	9:SL:312:THR:HG23	1.80	0.64
25:T:150:LYS:HB2	25:T:152:GLN:HE21	1.62	0.64
30:U0:393:GLN:HB3	30:U1:280:PHE:HB2	1.79	0.64
30:U3:419:GLU:HA	30:U4:134:MET:HE2	1.80	0.64
30:V7:366:GLN:HG3	30:W0:390:LYS:HB3	1.80	0.64
9:VB:128:ASP:OD2	8:VC:96:LYS:NZ	2.32	0.64
9:VH:48:ASN:O	9:VH:62:ARG:NH2	2.30	0.64
9:VJ:48:ASN:O	9:VJ:62:ARG:NH2	2.31	0.64
9:VL:230:SER:HA	9:VL:233:MET:HE1	1.80	0.64
8:WI:317:MET:HE1	8:WI:377:MET:HG2	1.79	0.64
8:WK:1:MET:HG3	8:WK:50:ASN:HD22	1.62	0.64
35:XC:20:LYS:HG3	35:XC:23:GLN:HB3	1.79	0.64
4:5:48:TYR:HE2	4:5:55:GLU:HG3	1.62	0.63
9:AN:289:LEU:HD21	9:AN:363:MET:HG2	1.79	0.63
8:AO:90:GLU:OE1	8:AO:121:ARG:NH1	2.32	0.63
11:B1:403:LYS:NZ	12:S5:312:GLN:HE22	1.96	0.63
8:CC:139:HIS:NE2	8:CC:168:GLU:OE1	2.30	0.63
9:CD:216:LYS:HZ3	31:W:306:VAL:HG12	1.63	0.63
8:CI:60:LYS:NZ	8:CI:85:GLN:O	2.28	0.63
9:DN:345:ILE:HA	8:DO:398:MET:HE1	1.80	0.63
9:EJ:48:ASN:O	9:EJ:62:ARG:NH2	2.31	0.63
9:EJ:136:THR:HG22	9:EJ:167:PHE:HB2	1.80	0.63
9:FL:48:ASN:O	9:FL:62:ARG:NH2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GE:437:VAL:O	9:GF:391:ARG:NH2	2.32	0.63
8:GG:15:GLN:HB3	8:GG:228:ASN:HD21	1.63	0.63
8:GM:37:PRO:O	26:P2:94:ARG:NH2	2.29	0.63
9:HF:246:LEU:HD22	8:HG:179:THR:HG21	1.80	0.63
8:HO:306:ASP:OD2	8:HO:308:ARG:NE	2.27	0.63
18:I1:90:SER:OG	18:I1:91:GLN:N	2.31	0.63
8:IE:26:LEU:HD12	8:IE:363:VAL:HG23	1.79	0.63
9:IF:86:ARG:HG2	9:IF:88:ASP:H	1.62	0.63
8:IG:414:GLU:OE1	8:IG:416:GLY:N	2.31	0.63
9:IJ:86:ARG:NE	8:JK:284:GLU:OE2	2.28	0.63
19:J1:181:ASP:HA	19:J1:184:GLN:HB3	1.80	0.63
19:J3:54:ARG:HH12	9:NF:40:SER:C	2.06	0.63
9:KD:376:GLU:O	9:KD:380:ARG:NH1	2.32	0.63
9:KJ:262:ARG:HH21	9:KJ:418:LEU:HA	1.63	0.63
8:MC:203:MET:HE1	8:MC:267:PHE:HB3	1.80	0.63
8:NK:317:MET:HE1	8:NK:377:MET:HE1	1.80	0.63
9:NN:164:MET:HA	9:NN:164:MET:HE3	1.80	0.63
9:OL:114:ASP:N	9:OL:114:ASP:OD1	2.30	0.63
9:OP:210:ILE:HD11	9:OP:273:LEU:HD13	1.79	0.63
8:PI:326:LYS:HG2	9:PJ:212:PHE:CE1	2.33	0.63
8:QE:404:PHE:HD1	8:QE:407:TRP:HD1	1.43	0.63
11:R3:330:CYS:SG	11:R4:213:THR:OG1	2.47	0.63
9:RJ:147:MET:HE2	9:RJ:151:LEU:HD21	1.80	0.63
8:SA:119:LEU:HD11	8:SA:156:ARG:HD2	1.80	0.63
8:UM:3:GLU:H	8:UM:133:GLN:HG2	1.63	0.63
30:V3:242:ASP:HB3	30:V3:310:MET:HE1	1.80	0.63
30:V4:235:ARG:O	30:V4:239:GLN:NE2	2.31	0.63
8:VK:437:VAL:O	9:VL:391:ARG:NH2	2.31	0.63
9:VL:83:GLN:O	9:WL:281:TYR:OH	2.16	0.63
9:WL:245:GLN:O	8:WM:11:GLN:NE2	2.31	0.63
35:XG:33:HIS:HE1	35:XG:50:GLU:HB2	1.63	0.63
45:i1:55:ARG:O	45:i1:57:LYS:NZ	2.27	0.63
2:2:487:TRP:HD1	2:2:490:GLU:H	1.46	0.63
2:2:513:HIS:O	6:N1:100:ARG:NH2	2.31	0.63
1:7:201:TRP:CG	9:LF:276:ARG:HE	2.17	0.63
9:AN:245:GLN:O	8:AO:11:GLN:NE2	2.32	0.63
9:DH:48:ASN:O	9:DH:62:ARG:NH2	2.31	0.63
15:F:5:VAL:O	8:JQ:285:GLN:NE2	2.29	0.63
8:GC:1:MET:SD	8:GC:2:ARG:N	2.71	0.63
9:GL:112:LEU:HB3	9:GL:147:MET:HE1	1.79	0.63
9:HB:7:LEU:HD13	9:HB:64:VAL:HB	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:69:ASP:OD1	8:HC:70:LEU:N	2.31	0.63
8:HI:183:GLU:HA	8:HI:186:ASN:HD22	1.62	0.63
9:HJ:325:GLU:H	8:HK:221:ARG:NH2	1.96	0.63
9:HN:113:VAL:HG11	9:HN:150:LEU:HD23	1.80	0.63
9:IB:309:ARG:NH2	9:IB:339:SER:O	2.31	0.63
8:IG:214:ARG:NH2	36:Y1:195:PHE:O	2.31	0.63
8:IM:7:ILE:HB	8:IM:137:ILE:HG12	1.79	0.63
8:IM:102:ASN:HB3	8:IM:105:ARG:HB2	1.80	0.63
9:IN:273:LEU:O	9:IN:292:GLN:NE2	2.31	0.63
9:IN:274:THR:HG21	9:IN:282:ARG:HE	1.63	0.63
9:IP:87:PRO:HA	9:IP:90:PHE:HD1	1.63	0.63
19:J4:28:ILE:HB	19:J4:80:GLY:HA3	1.80	0.63
19:J4:241:PHE:CZ	8:LO:422:ARG:HG2	2.33	0.63
8:JI:180:ALA:HB3	8:JI:183:GLU:HB2	1.81	0.63
9:KN:257:MET:SD	9:KN:312:THR:OG1	2.54	0.63
9:KP:362:LYS:HD2	9:KP:363:MET:N	2.13	0.63
9:LH:125:GLU:OE2	43:j:47:LYS:NZ	2.31	0.63
8:LO:89:PRO:O	43:k:129:ARG:NH1	2.31	0.63
22:M4:165:LEU:CD1	27:P6:87:PHE:CZ	2.80	0.63
8:ME:3:GLU:OE1	8:ME:64:ARG:NH1	2.31	0.63
8:MM:360:PRO:O	8:MM:370:LYS:NZ	2.30	0.63
9:NF:272:PRO:HG3	9:NF:364:SER:HA	1.80	0.63
8:NK:237:SER:HA	8:NK:320:ARG:HH22	1.63	0.63
9:OB:215:LEU:HD21	9:OB:273:LEU:HB3	1.79	0.63
9:OF:34:GLY:HA3	9:OF:58:LYS:HE2	1.79	0.63
8:OG:377:MET:HE2	8:OG:379:SER:HB3	1.80	0.63
8:PK:286:LEU:O	8:PK:373:ARG:NH1	2.30	0.63
8:PM:314:ALA:HB3	8:PM:380:ASN:HB3	1.79	0.63
28:Q4:48:ARG:NH1	12:S8:306:ASP:OD2	2.31	0.63
8:QI:320:ARG:HD3	8:QI:360:PRO:HG3	1.81	0.63
12:S2:197:GLU:OE2	12:S7:248:ARG:NH2	2.30	0.63
25:U:526:GLU:N	25:U:526:GLU:OE1	2.31	0.63
8:UA:151:SER:HA	8:UA:193:THR:HG21	1.79	0.63
8:UC:172:TYR:N	8:UC:204:VAL:O	2.31	0.63
9:UH:87:PRO:HA	9:UH:90:PHE:CE2	2.33	0.63
30:V0:363:LYS:HZ2	30:V1:110:ARG:HD3	1.62	0.63
8:VC:320:ARG:HD3	8:VC:360:PRO:HG3	1.80	0.63
31:W:559:SER:HA	31:W:562:ILE:HD12	1.80	0.63
30:W2:156:LEU:HD22	30:W2:254:ILE:HB	1.79	0.63
35:XH:129:TRP:HB3	35:XH:183:LEU:HD21	1.80	0.63
39:a:345:LYS:O	39:a:348:MET:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:g:489:ASP:HB2	42:g:496:ASN:HD21	1.63	0.63
4:j1:63:ARG:NH1	4:j1:64:THR:OG1	2.31	0.63
2:2:361:PRO:HG3	9:IL:359:ARG:HD2	1.80	0.63
7:A4:264:PHE:HB3	7:A4:391:MET:HE1	1.80	0.63
8:AG:56:THR:HG23	8:AG:58:ALA:H	1.62	0.63
8:AK:292:THR:HG21	8:AK:331:ALA:HB1	1.79	0.63
9:BB:5:VAL:HG22	9:BB:62:ARG:HD2	1.80	0.63
9:CH:48:ASN:O	9:CH:62:ARG:NH2	2.31	0.63
14:D2:188:GLU:OE1	28:Q2:31:TYR:HE1	1.81	0.63
8:DG:68:VAL:HG12	8:DG:93:ILE:HB	1.79	0.63
9:EF:136:THR:HG22	9:EF:167:PHE:HB2	1.80	0.63
9:EJ:130:LEU:O	9:EJ:162:ARG:NH1	2.31	0.63
9:FB:202:ILE:HG22	9:FB:300:MET:HG3	1.80	0.63
9:FD:1:MET:SD	9:FD:2:ARG:N	2.71	0.63
8:GA:88:HIS:HE2	8:HA:284:GLU:HG2	1.63	0.63
8:HC:213:CYS:HA	8:HC:217:LEU:HD23	1.79	0.63
9:HL:346:PRO:HG3	8:HM:394:LYS:HB2	1.78	0.63
8:II:208:ALA:HA	8:II:304:LYS:HE2	1.81	0.63
8:IK:101:ASN:HA	8:IK:144:GLY:H	1.62	0.63
19:J1:185:HIS:CD2	9:OB:282:ARG:HH22	2.16	0.63
8:JM:236:SER:OG	8:JM:243:ARG:NH2	2.31	0.63
8:KA:56:THR:HA	8:LA:285:GLN:HB2	1.79	0.63
8:KC:346:TRP:HB3	9:KD:390:ARG:HH12	1.63	0.63
9:KL:372:THR:HG21	9:KL:426:GLN:HB2	1.79	0.63
9:KP:8:GLN:NE2	9:KP:13:GLY:O	2.31	0.63
8:LG:46:ASP:N	25:V:45:MET:HE2	2.07	0.63
8:LG:241:SER:OG	8:LG:250:VAL:O	2.15	0.63
8:MA:373:ARG:NH2	23:O:36:ARG:O	2.31	0.63
8:NA:317:MET:HE1	8:NA:353:VAL:HA	1.80	0.63
9:ND:150:LEU:HG	9:ND:154:LYS:HE2	1.80	0.63
8:NG:4:CYS:HB3	8:NG:52:PHE:HE2	1.62	0.63
8:OE:323:VAL:HA	8:OE:373:ARG:HH21	1.62	0.63
9:OH:336:LYS:HD2	36:Y4:86:ALA:HB1	1.79	0.63
8:OO:392:ASP:O	8:OO:422:ARG:NH2	2.31	0.63
27:P6:155:GLY:O	11:R3:358:GLN:HG2	1.99	0.63
9:PJ:207:LEU:HD11	9:PJ:225:LEU:HA	1.80	0.63
8:PO:147:SER:OG	8:PO:190:THR:OG1	2.13	0.63
28:Q5:52:THR:OG1	28:Q5:58:ALA:HA	1.98	0.63
9:QD:252:LYS:NZ	50:QE:501:GTP:O3G	2.31	0.63
9:QF:86:ARG:HE	9:QF:88:ASP:H	1.46	0.63
8:QM:239:THR:OG1	8:QM:243:ARG:NH1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QP:48:ASN:O	9:QP:62:ARG:NH2	2.32	0.63
9:RD:198:GLU:HB2	9:RD:266:PHE:HE2	1.63	0.63
8:RG:220:GLU:HG2	8:RG:221:ARG:HD2	1.78	0.63
8:RO:2:ARG:HB3	8:RO:242:LEU:HD23	1.80	0.63
12:S3:71:ARG:NH1	12:S4:230:GLN:OE1	2.31	0.63
9:SJ:69:GLU:HG2	9:SJ:71:GLY:H	1.63	0.63
9:SL:267:MET:SD	9:SL:299:MET:HB3	2.38	0.63
14:T4:242:PRO:HB2	14:T4:247:PHE:HE2	1.63	0.63
8:TA:50:ASN:O	8:TA:64:ARG:NH1	2.32	0.63
30:U2:193:GLU:OE2	30:U7:244:ARG:NH1	2.31	0.63
9:VF:290:THR:HG21	9:VF:329:GLN:HB3	1.80	0.63
9:VF:372:THR:HA	9:VF:422:TYR:HE1	1.62	0.63
8:VG:326:LYS:NZ	9:VH:218:THR:O	2.28	0.63
9:VN:132:GLY:HA3	9:VN:163:ILE:O	1.97	0.63
9:VN:372:THR:HA	9:VN:422:TYR:HE1	1.63	0.63
8:WE:50:ASN:O	8:WE:64:ARG:NH1	2.31	0.63
34:X8:202:LEU:HA	34:X8:205:MET:HG2	1.80	0.63
41:b3:400:MET:HE2	41:b4:247:LEU:HD13	1.81	0.63
4:j1:195:LEU:HD23	4:j1:211:ILE:HD13	1.80	0.63
9:DH:318:ARG:HD3	9:DH:358:PRO:HD3	1.79	0.63
8:DI:292:THR:HG21	8:DI:331:ALA:HB1	1.79	0.63
9:DL:372:THR:HA	9:DL:422:TYR:HE1	1.63	0.63
8:EE:339:ARG:NH2	8:EE:342:GLN:HG2	2.13	0.63
9:EF:60:VAL:HG11	9:FF:281:TYR:HB3	1.80	0.63
8:EG:211:ASP:OD1	8:EG:214:ARG:NH2	2.31	0.63
8:EK:36:MET:HE3	8:EK:37:PRO:HD3	1.78	0.63
15:F:152:LEU:HD12	15:F:165:LEU:HD12	1.81	0.63
8:HK:123:ARG:HE	36:Y1:102:GLY:C	2.06	0.63
8:HK:326:LYS:HD2	9:HL:220:PRO:HD2	1.79	0.63
9:ID:97:ALA:HA	9:ID:103:LYS:HE2	1.78	0.63
8:IE:239:THR:OG1	8:IE:243:ARG:NH1	2.31	0.63
8:IG:147:SER:OG	8:IG:190:THR:OG1	2.15	0.63
8:IM:2:ARG:HB3	8:IM:242:LEU:HD23	1.79	0.63
8:IM:101:ASN:HA	8:IM:144:GLY:H	1.63	0.63
8:JC:350:GLY:HA2	9:JD:179:VAL:HG13	1.78	0.63
8:LG:271:THR:HB	8:LG:377:MET:HB3	1.79	0.63
9:LN:8:GLN:HB2	9:LN:65:LEU:HA	1.80	0.63
8:NC:60:LYS:NZ	8:OC:282:TYR:O	2.31	0.63
9:NH:342:VAL:HG21	9:NH:345:ILE:HD12	1.80	0.63
17:O8:54:SER:HB2	27:P3:157:LEU:N	2.14	0.63
9:OH:294:PHE:HE1	36:Y4:89:ILE:HA	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OI:316:CYS:HB3	8:OI:378:LEU:HB2	1.79	0.63
9:OJ:73:MET:SD	9:OJ:73:MET:N	2.67	0.63
9:OL:213:ARG:NH2	36:Y5:243:SER:O	2.25	0.63
9:ON:48:ASN:O	9:ON:62:ARG:NH2	2.31	0.63
9:PB:152:ILE:HG23	9:PB:164:MET:HE1	1.81	0.63
9:PB:323:MET:HE1	8:PC:223:THR:HA	1.80	0.63
8:PE:26:LEU:HD21	8:PE:363:VAL:HG22	1.78	0.63
8:PM:326:LYS:NZ	9:PN:218:THR:O	2.30	0.63
8:QM:53:PHE:HB3	8:QM:61:HIS:HB3	1.81	0.63
8:RE:138:PHE:HD2	8:RE:169:PHE:HB2	1.63	0.63
8:RK:136:LEU:HG	8:RK:138:PHE:CE1	2.34	0.63
12:S7:243:GLN:NE2	12:S7:247:ASP:OD1	2.28	0.63
9:SD:302:ALA:HB3	9:SD:377:LEU:HD11	1.80	0.63
9:SH:48:ASN:O	9:SH:62:ARG:NH2	2.31	0.63
9:SJ:73:MET:SD	9:SJ:73:MET:N	2.62	0.63
30:U4:170:MET:HE3	30:U4:314:SER:HB3	1.80	0.63
9:UJ:8:GLN:HB3	9:UJ:65:LEU:HA	1.79	0.63
9:VB:174:LYS:HD2	9:VB:175:VAL:HG23	1.78	0.63
8:VE:276:ILE:HG23	8:VE:280:LYS:HE2	1.80	0.63
8:VI:147:SER:OG	8:VI:190:THR:OG1	2.15	0.63
9:WH:86:ARG:HD3	9:WH:88:ASP:HB3	1.80	0.63
33:X4:362:TRP:CG	33:X4:363:THR:H	2.17	0.63
36:Y3:20:MET:HB2	36:Y3:22:LEU:HD22	1.79	0.63
39:c:457:ILE:HG22	39:c:461:LYS:HE3	1.79	0.63
43:i:228:GLN:HB3	43:i:232:LYS:HE3	1.81	0.63
46:i2:1333:ARG:O	46:i2:1337:GLN:N	2.31	0.63
3:3:221:LYS:HA	3:3:224:ARG:HE	1.62	0.63
8:AI:113:GLU:N	8:AI:113:GLU:OE2	2.31	0.63
11:B5:350:ASN:OD1	11:B5:354:GLN:NE2	2.31	0.63
9:BJ:198:GLU:HA	9:BJ:264:HIS:HB2	1.81	0.63
12:C3:90:PHE:HE2	17:P9:183:ARG:HB3	1.64	0.63
8:CQ:70:LEU:HB3	8:CQ:98:ASP:HA	1.81	0.63
8:FK:117:LEU:HA	36:Y2:108:PRO:HB2	1.80	0.63
9:GH:6:HIS:NE2	9:GH:8:GLN:OE1	2.30	0.63
8:GI:317:MET:HE1	8:GI:377:MET:HB2	1.81	0.63
9:GJ:66:VAL:HG12	9:GJ:91:VAL:HB	1.79	0.63
8:GM:214:ARG:NH1	8:GM:214:ARG:O	2.31	0.63
9:GN:299:MET:N	9:GN:299:MET:SD	2.72	0.63
9:HJ:313:VAL:HG12	9:HJ:349:VAL:HG13	1.79	0.63
9:HP:111:GLU:OE2	9:HP:111:GLU:N	2.32	0.63
9:IH:379:LYS:O	9:IH:383:GLU:HG2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IJ:334:GLN:HE22	9:IJ:348:ASN:HD22	1.43	0.63
9:JD:324:LYS:HD3	8:JE:221:ARG:NH2	2.13	0.63
8:JE:71:GLU:HB3	8:JE:98:ASP:HB3	1.81	0.63
9:JF:180:VAL:HG12	9:JF:183:TYR:HB2	1.80	0.63
8:JI:295:CYS:HB3	8:JI:377:MET:SD	2.39	0.63
9:JJ:362:LYS:NZ	9:JJ:363:MET:SD	2.71	0.63
9:KD:213:ARG:NH2	9:KD:297:LYS:HD3	2.13	0.63
8:LA:264:ARG:HD2	43:h:87:ALA:HA	1.79	0.63
9:LD:48:ASN:O	9:LD:62:ARG:NH2	2.31	0.63
8:LI:44:GLY:HA2	29:S:267:ARG:HG2	1.80	0.63
8:MM:276:ILE:HD11	8:MM:286:LEU:HD11	1.81	0.63
8:NA:90:GLU:OE2	8:NA:121:ARG:NH1	2.31	0.63
8:NC:186:ASN:O	8:NC:190:THR:OG1	2.17	0.63
9:ND:86:ARG:HG3	9:OD:282:ARG:HH12	1.64	0.63
9:NL:252:LYS:NZ	50:NM:501:GTP:O3G	2.30	0.63
25:O6:34:ARG:HD2	25:O6:35:ASN:N	2.13	0.63
8:OA:336:LYS:HD2	8:OA:337:THR:HG23	1.81	0.63
9:OB:249:ASP:H	9:OB:252:LYS:HB2	1.63	0.63
9:OB:403:MET:HG3	9:OB:407:GLU:OE1	1.99	0.63
9:OH:167:PHE:CZ	9:OH:233:MET:HG2	2.33	0.63
9:ON:372:THR:HA	9:ON:422:TYR:HE1	1.63	0.63
11:R1:321:ARG:O	11:R1:324:ARG:NH1	2.31	0.63
12:S2:284:PHE:HA	12:S7:446:GLN:HE22	1.62	0.63
9:SD:271:ALA:HB1	9:SD:289:LEU:HD22	1.81	0.63
8:TC:145:THR:HA	8:TC:149:PHE:CD2	2.34	0.63
30:U1:93:ARG:O	30:U1:93:ARG:NH1	2.30	0.63
30:U1:111:LEU:HD12	30:U1:115:ARG:HH21	1.62	0.63
30:U8:89:ARG:HD2	30:U9:208:HIS:HB2	1.81	0.63
9:UB:403:MET:N	9:UB:403:MET:SD	2.65	0.63
8:UC:276:ILE:HG13	8:UC:280:LYS:HB3	1.81	0.63
8:UI:151:SER:HA	8:UI:193:THR:HG21	1.81	0.63
8:VA:90:GLU:HB3	8:WA:280:LYS:HZ1	1.63	0.63
8:VE:28:HIS:CE1	8:VE:49:PHE:HA	2.34	0.63
8:VE:239:THR:HA	8:VE:242:LEU:HD13	1.80	0.63
9:VF:34:GLY:HA3	9:VF:58:LYS:HE2	1.81	0.63
9:VJ:1:MET:N	9:VJ:3:GLU:OE2	2.31	0.63
9:WL:350:LYS:HD2	8:WM:180:ALA:HA	1.80	0.63
39:a:190:GLU:O	39:a:194:MET:HG3	1.97	0.63
4:j1:116:LEU:HD21	4:j1:225:HIS:HB3	1.79	0.63
47:o:135:ALA:HA	47:o:138:CYS:HB2	1.79	0.63
8:AK:27:GLU:OE1	8:AK:243:ARG:NH2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:326:LYS:HD3	9:AL:220:PRO:HD2	1.80	0.63
8:BI:51:THR:HG21	8:BI:243:ARG:HG2	1.80	0.63
8:CC:68:VAL:HG12	8:CC:93:ILE:HB	1.81	0.63
8:CC:327:ASP:OD1	8:CC:327:ASP:N	2.30	0.63
8:CE:211:ASP:OD1	8:CE:214:ARG:NH2	2.29	0.63
9:CL:207:LEU:HB3	9:CL:225:LEU:HD22	1.79	0.63
14:D2:78:ARG:NH1	14:D3:331:ASP:OD1	2.31	0.63
8:DM:36:MET:HE3	8:DM:37:PRO:HD2	1.79	0.63
8:EI:320:ARG:HD3	8:EI:360:PRO:HG3	1.81	0.63
9:EJ:249:ASP:H	9:EJ:252:LYS:HB2	1.63	0.63
9:FD:346:PRO:HD2	8:FE:398:MET:HE1	1.79	0.63
9:FH:147:MET:HA	9:FH:150:LEU:HD12	1.80	0.63
8:GG:119:LEU:HA	8:GG:122:ILE:HD12	1.79	0.63
9:GN:198:GLU:HA	9:GN:264:HIS:HB2	1.81	0.63
9:HB:41:ASP:OD1	9:HB:42:LEU:N	2.31	0.63
9:HJ:170:VAL:HG21	9:HJ:377:LEU:HD21	1.80	0.63
8:IE:88:HIS:NE2	8:IE:90:GLU:HG2	2.14	0.63
8:IG:15:GLN:NE2	50:IG:501:GTP:O6	2.32	0.63
19:J5:136:ARG:HH12	9:KP:194:GLU:HB3	1.63	0.63
9:JF:255:VAL:HG12	8:JG:407:TRP:CD2	2.34	0.63
9:JH:269:GLY:N	9:JH:367:PHE:O	2.27	0.63
9:KF:325:GLU:OE2	8:KG:221:ARG:NH1	2.27	0.63
9:LP:218:THR:HG23	9:LP:219:THR:HG23	1.79	0.63
9:MB:8:GLN:NE2	9:MB:13:GLY:O	2.31	0.63
8:MI:50:ASN:O	8:MI:64:ARG:NH1	2.30	0.63
8:NI:97:GLU:OE2	8:NI:105:ARG:NH2	2.29	0.63
8:OA:319:TYR:HE2	8:OA:328:VAL:HG13	1.64	0.63
27:P6:65:GLU:OE2	27:P6:65:GLU:N	2.32	0.63
8:QO:276:ILE:HG23	8:QO:280:LYS:HB3	1.80	0.63
9:RF:130:LEU:O	9:RF:162:ARG:NH1	2.32	0.63
8:RO:269:LEU:HD22	8:RO:303:VAL:HG21	1.80	0.63
8:RO:320:ARG:HD3	8:RO:360:PRO:HG3	1.79	0.63
9:SJ:249:ASP:H	9:SJ:252:LYS:HB3	1.64	0.63
14:T5:376:ARG:NH1	14:T5:379:SER:OG	2.32	0.63
9:TD:173:PRO:HG3	9:TD:380:ARG:HD2	1.81	0.63
9:TH:170:VAL:HG11	9:TH:377:LEU:HD11	1.79	0.63
30:V7:446:MET:HG2	30:V7:450:ARG:HH21	1.62	0.63
9:VL:276:ARG:NH1	39:b:399:ASP:OD1	2.31	0.63
9:WN:273:LEU:O	9:WN:292:GLN:NE2	2.31	0.63
37:YB:67:ILE:HG22	37:YB:80:TRP:HZ3	1.63	0.63
40:a4:67:LYS:HG3	40:a4:69:ILE:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:d:444:ASP:HB2	39:d:448:ARG:HH21	1.62	0.63
46:i2:1471:VAL:HG12	46:i2:1505:ILE:HD11	1.81	0.63
2:1:495:ARG:O	2:1:495:ARG:NE	2.31	0.63
8:AG:396:ASP:OD1	35:XD:53:ASN:ND2	2.32	0.63
8:AK:88:HIS:CE1	8:BK:283:HIS:HB2	2.34	0.63
9:BB:323:MET:HG3	8:BC:224:TYR:HD1	1.64	0.63
9:BP:229:VAL:HG12	9:BP:233:MET:HE1	1.81	0.63
9:CD:198:GLU:HA	9:CD:264:HIS:HB2	1.81	0.63
9:EF:69:GLU:HG2	9:EF:71:GLY:H	1.63	0.63
9:EH:247:ASN:O	9:EH:252:LYS:NZ	2.32	0.63
9:EL:48:ASN:O	9:EL:62:ARG:NH2	2.31	0.63
9:EN:136:THR:HG22	9:EN:167:PHE:HB2	1.81	0.63
8:FG:339:ARG:HH12	8:FG:342:GLN:HG2	1.64	0.63
8:FI:60:LYS:NZ	8:GI:282:TYR:O	2.27	0.63
16:G:117:ASN:HD21	8:GM:121:ARG:HH22	1.47	0.63
9:GB:156:ARG:NH1	9:GB:197:ASP:OD1	2.31	0.63
8:GM:320:ARG:HD3	8:GM:360:PRO:HG3	1.80	0.63
9:GN:406:MET:HE3	9:GN:409:THR:OG1	1.99	0.63
9:HB:242:PHE:HB3	9:HB:356:ILE:HD12	1.80	0.63
9:HD:282:ARG:NH2	9:HD:292:GLN:OE1	2.30	0.63
9:HJ:313:VAL:HG13	9:HJ:367:PHE:CE1	2.34	0.63
17:I:207:LEU:HD11	17:I:248:ASP:OD2	1.99	0.63
19:J4:261:LEU:O	19:J4:264:HIS:ND1	2.32	0.63
8:JC:200:CYS:HA	8:JC:266:HIS:HB2	1.79	0.63
9:KJ:267:MET:HE3	9:KJ:301:ALA:HB3	1.79	0.63
9:LL:321:MET:HG2	9:LL:363:MET:HE3	1.80	0.63
9:MN:68:LEU:HB3	9:MN:96:GLY:HA2	1.79	0.63
8:NG:56:THR:HG23	8:NG:58:ALA:H	1.64	0.63
9:OB:8:GLN:HB3	9:OB:65:LEU:HA	1.81	0.63
9:OD:20:PHE:CE1	9:OD:230:SER:HA	2.33	0.63
8:OG:121:ARG:HH21	8:OG:124:LYS:HD2	1.62	0.63
9:OJ:204:ASN:HA	9:OJ:207:LEU:HD12	1.81	0.63
9:ON:293:MET:SD	9:ON:367:PHE:HB2	2.38	0.63
8:PM:147:SER:OG	8:PM:190:THR:OG1	2.15	0.63
9:QB:8:GLN:HB3	9:QB:65:LEU:HA	1.80	0.63
8:QK:271:THR:HA	8:QK:302:MET:HE1	1.80	0.63
9:QP:309:ARG:NH2	9:QP:425:TYR:O	2.32	0.63
9:RJ:8:GLN:NE2	9:RJ:13:GLY:O	2.28	0.63
9:RN:246:LEU:HA	8:RO:11:GLN:HE22	1.63	0.63
12:S0:133:GLN:HE22	30:V8:154:SER:HB2	1.64	0.63
9:SH:130:LEU:O	9:SH:162:ARG:NH1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SJ:267:MET:HE1	9:SJ:299:MET:HE2	1.80	0.63
9:TN:7:LEU:N	9:TN:134:GLN:O	2.31	0.63
9:UB:48:ASN:O	9:UB:62:ARG:NH2	2.31	0.63
9:UH:299:MET:HG3	9:UH:301:ALA:H	1.64	0.63
8:UO:370:LYS:O	39:d:424:ARG:NH2	2.32	0.63
30:V3:399:ARG:NH1	30:V3:410:ASP:OD1	2.31	0.63
30:V7:389:LEU:HD13	30:V7:423:ILE:HB	1.80	0.63
8:VI:50:ASN:O	8:VI:64:ARG:NH1	2.32	0.63
8:WA:150:ALA:O	8:WA:154:MET:HG3	1.97	0.63
9:WN:376:GLU:OE1	9:WN:380:ARG:NH1	2.32	0.63
8:WO:320:ARG:HD3	8:WO:360:PRO:HG3	1.79	0.63
34:X7:98:LEU:HB2	34:X7:138:CYS:HB3	1.80	0.63
37:YH:112:ARG:HH12	37:YH:113:ARG:HD2	1.63	0.63
39:a:185:MET:SD	39:b:517:ILE:HD12	2.37	0.63
2:1:696:GLU:OE1	5:8:27:LYS:NZ	2.28	0.63
7:A5:26:ARG:HH22	31:Z:63:GLY:HA3	1.63	0.63
8:BG:223:THR:OG1	8:BG:224:TYR:N	2.29	0.63
8:BK:251:ASP:HB3	8:BK:254:GLU:HG3	1.81	0.63
9:BL:200:TYR:HE1	9:BL:368:ILE:HD11	1.62	0.63
8:BO:271:THR:HB	8:BO:377:MET:HB3	1.81	0.63
12:C3:337:TRP:HD1	12:C3:480:TYR:HD2	1.45	0.63
8:DQ:203:MET:SD	8:DQ:203:MET:N	2.71	0.63
8:DQ:317:MET:HB3	8:DQ:353:VAL:HA	1.81	0.63
8:DQ:320:ARG:HD3	8:DQ:360:PRO:HG3	1.81	0.63
8:EO:264:ARG:NH1	8:EO:431:ASP:OD2	2.32	0.63
9:GL:156:ARG:NH1	9:GL:197:ASP:OD1	2.32	0.63
8:HA:150:ALA:O	8:HA:154:MET:HG2	1.99	0.63
8:HE:139:HIS:O	8:HE:170:ALA:HA	1.99	0.63
9:HN:267:MET:HE1	9:HN:373:ALA:HB3	1.81	0.63
9:HP:60:VAL:HG21	9:IP:281:TYR:HB3	1.80	0.63
9:IF:178:THR:HB	9:IF:181:GLU:HB2	1.80	0.63
8:IK:360:PRO:HG3	8:IK:374:ALA:HB2	1.80	0.63
9:IP:161:ASP:OD1	9:IP:162:ARG:NE	2.24	0.63
9:JB:48:ASN:O	9:JB:62:ARG:NH2	2.31	0.63
8:JE:206:ASN:HB3	8:JE:210:TYR:CE2	2.34	0.63
9:JJ:8:GLN:HE21	9:JJ:14:ASN:HA	1.62	0.63
8:KA:324:VAL:HG12	8:KA:326:LYS:H	1.63	0.63
9:KB:91:VAL:HG11	9:KB:116:VAL:HG12	1.79	0.63
8:KO:50:ASN:O	8:KO:64:ARG:NH1	2.32	0.63
21:L1:133:MET:HG3	21:L1:134:SER:N	2.06	0.63
9:LD:265:PHE:HB2	9:LD:374:ILE:HD12	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:353:VAL:HG22	9:LF:177:ASP:HB2	1.79	0.63
8:LM:204:VAL:HA	8:LM:302:MET:HE1	1.80	0.63
9:MD:1:MET:HE1	8:ME:96:LYS:HA	1.79	0.63
8:NC:203:MET:SD	8:NC:203:MET:N	2.71	0.63
8:NK:31:GLN:HG2	8:NK:37:PRO:HD3	1.80	0.63
9:NP:259:PRO:HD2	9:NP:263:LEU:HD11	1.80	0.63
24:O2:167:MET:HE1	24:O2:176:PRO:HD3	1.80	0.63
25:O5:456:VAL:HB	25:O5:459:SER:HB3	1.81	0.63
17:O7:290:PRO:HB2	17:O7:311:GLU:OE1	1.98	0.63
9:OD:335:ASN:O	9:OD:338:SER:OG	2.17	0.63
9:OH:8:GLN:HB3	9:OH:65:LEU:HA	1.79	0.63
8:OM:7:ILE:HB	8:OM:137:ILE:HG13	1.81	0.63
8:PE:168:GLU:HG3	8:PE:201:ALA:HA	1.80	0.63
11:R0:128:VAL:O	11:R1:11:ARG:NH1	2.31	0.63
11:R1:200:SER:OG	11:R1:201:LEU:N	2.31	0.63
11:R4:293:LEU:HA	11:R5:39:ARG:HD2	1.81	0.63
8:RC:339:ARG:HE	8:RC:339:ARG:C	2.07	0.63
9:RL:375:GLN:HB3	9:RL:422:TYR:CE1	2.34	0.63
12:S8:99:TRP:HD1	12:S9:208:ILE:HG13	1.63	0.63
9:TF:252:LYS:NZ	50:TG:501:GTP:O3G	2.31	0.63
8:TM:70:LEU:HB3	8:TM:98:ASP:HA	1.81	0.63
8:TM:167:LEU:HD13	8:TM:169:PHE:HE2	1.63	0.63
25:V:302:VAL:HG12	25:V:304:ASN:H	1.64	0.63
8:VK:313:MET:HE3	8:VK:435:VAL:HG11	1.80	0.63
9:WN:73:MET:HE1	9:WN:92:PHE:HB3	1.79	0.63
31:X:201:ARG:HH21	31:X:206:PHE:HD1	1.47	0.63
40:a2:140:LEU:HA	40:a2:143:GLN:HE21	1.63	0.63
42:e:84:VAL:HG23	42:e:113:LYS:HB2	1.81	0.63
46:i4:1386:TYR:HB3	46:i4:1395:ALA:HB3	1.81	0.63
4:j1:99:ASP:HB3	4:j1:102:THR:HG23	1.81	0.63
4:6:100:GLN:NE2	8:IK:39:ASP:HA	2.14	0.63
9:AL:145:SER:OG	9:AL:188:SER:OG	2.16	0.63
9:AP:272:PRO:HG3	9:AP:364:SER:HA	1.81	0.63
9:BL:77:ARG:NH1	9:BL:82:GLY:O	2.32	0.63
9:CL:358:PRO:HG2	9:CL:361:LEU:HB3	1.81	0.63
14:D1:181:GLU:OE2	14:D1:185:ASN:ND2	2.32	0.63
8:DG:217:LEU:HD12	8:DG:367:ASP:HB3	1.80	0.63
9:EJ:375:GLN:HA	9:EJ:378:PHE:HD2	1.63	0.63
8:FC:320:ARG:HD3	8:FC:360:PRO:HG3	1.81	0.63
8:GA:151:SER:HB3	8:GA:193:THR:HG21	1.81	0.63
8:GA:247:ALA:O	9:GB:11:GLN:NE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GL:252:LYS:NZ	50:GM:501:GTP:O3G	2.32	0.63
8:GO:320:ARG:HD3	8:GO:360:PRO:HG3	1.80	0.63
8:HA:50:ASN:O	8:HA:64:ARG:NH1	2.31	0.63
9:HF:273:LEU:O	9:HF:292:GLN:NE2	2.29	0.63
8:IC:88:HIS:CE1	8:IC:90:GLU:HB3	2.33	0.63
8:IG:3:GLU:OE1	8:IG:64:ARG:NH1	2.32	0.63
9:JB:196:THR:HG21	9:JB:199:THR:HG22	1.80	0.63
9:JJ:257:MET:SD	9:JJ:312:THR:OG1	2.55	0.63
9:JL:8:GLN:HE21	9:JL:14:ASN:HA	1.64	0.63
9:JL:111:GLU:OE1	9:JL:111:GLU:N	2.31	0.63
9:JN:27:GLU:OE1	9:JN:318:ARG:NH2	2.32	0.63
8:KM:30:ILE:HA	8:KM:36:MET:HE1	1.81	0.63
9:KP:73:MET:O	9:KP:77:ARG:HG2	1.99	0.63
8:LE:252:LEU:HA	8:LE:255:PHE:HE1	1.63	0.63
9:LH:48:ASN:O	9:LH:62:ARG:NH2	2.31	0.63
8:LK:262:TYR:OH	9:LL:391:ARG:O	2.17	0.63
9:LN:256:ASN:HD21	8:LO:181:VAL:H	1.45	0.63
8:MC:258:ASN:HB3	9:MD:179:VAL:HG22	1.81	0.63
9:ML:276:ARG:NH1	23:P:81:GLU:OE1	2.32	0.63
25:O5:443:PHE:HD2	25:O5:448:MET:HB3	1.62	0.63
9:OP:280:GLN:N	9:OP:280:GLN:OE1	2.32	0.63
23:P:62:LYS:HE3	23:P:66:TYR:HE2	1.64	0.63
9:PD:236:VAL:HG23	9:PD:237:THR:HG23	1.81	0.63
8:PG:286:LEU:O	8:PG:373:ARG:NH1	2.32	0.63
8:PI:108:TYR:HA	8:PI:112:LYS:HE2	1.81	0.63
9:RL:87:PRO:HD2	9:RL:88:ASP:N	2.13	0.63
12:S9:403:ARG:NH1	12:S9:417:GLN:OE1	2.30	0.63
9:SH:68:LEU:HB3	9:SH:96:GLY:HA2	1.81	0.63
8:SK:239:THR:HB	8:SK:243:ARG:HH21	1.63	0.63
9:SL:124:ALA:HA	9:SL:130:LEU:HD21	1.81	0.63
8:SM:360:PRO:O	8:SM:370:LYS:NZ	2.32	0.63
30:U9:470:MET:HE3	30:U9:470:MET:HA	1.81	0.63
9:VN:7:LEU:HB3	9:VN:135:LEU:HD13	1.80	0.63
9:VN:109:GLY:HA2	9:VN:147:MET:HE1	1.80	0.63
30:W0:184:VAL:HG21	30:W0:229:MET:HE1	1.80	0.63
8:WA:269:LEU:HD22	8:WA:303:VAL:HG21	1.81	0.63
39:b:371:ARG:HH12	39:b:374:ALA:HB3	1.63	0.63
41:b2:134:ARG:HD3	41:b2:255:VAL:HG21	1.79	0.63
41:b3:261:ARG:HB2	41:b3:275:THR:HG21	1.80	0.63
41:b5:270:PRO:HD2	41:b5:270:PRO:O	1.99	0.63
2:2:440:TYR:OH	9:HN:54:ALA:O	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:220:GLU:N	8:AG:220:GLU:OE2	2.32	0.62
9:BB:156:ARG:HE	9:BB:164:MET:HE3	1.63	0.62
9:BP:48:ASN:O	9:BP:62:ARG:NH2	2.32	0.62
9:BP:182:PRO:HG2	9:BP:388:MET:HE1	1.81	0.62
9:BP:372:THR:HA	9:BP:422:TYR:HE1	1.64	0.62
8:CC:51:THR:OG1	8:CC:52:PHE:N	2.32	0.62
9:CL:346:PRO:HG2	8:CM:394:LYS:HD2	1.80	0.62
9:CP:215:LEU:HD21	9:CP:273:LEU:HB3	1.81	0.62
8:DO:292:THR:HG21	8:DO:331:ALA:HB1	1.80	0.62
15:E:170:ARG:NH1	15:E:180:GLY:O	2.32	0.62
8:EA:292:THR:HG21	8:EA:331:ALA:HB1	1.81	0.62
9:ED:249:ASP:H	9:ED:252:LYS:HB2	1.64	0.62
9:EF:40:SER:OG	9:EF:43:GLN:OE1	2.15	0.62
9:EN:27:GLU:O	9:EN:43:GLN:NE2	2.25	0.62
8:EO:320:ARG:HD3	8:EO:360:PRO:HG3	1.81	0.62
9:FF:67:ASP:OD2	9:FF:72:THR:OG1	2.15	0.62
9:FL:202:ILE:HG23	9:FL:300:MET:HE1	1.80	0.62
8:FM:229:ARG:HE	8:FM:363:VAL:HG21	1.64	0.62
9:GD:86:ARG:HG3	9:GD:88:ASP:H	1.64	0.62
9:GD:296:ALA:HB3	36:Y2:240:ILE:HG12	1.80	0.62
8:GE:321:GLY:HA3	8:GE:373:ARG:HA	1.81	0.62
9:GF:325:GLU:OE2	8:GG:221:ARG:NH1	2.32	0.62
9:GH:60:VAL:HG21	9:GH:86:ARG:HH21	1.63	0.62
9:HB:325:GLU:OE2	8:HC:221:ARG:NH1	2.31	0.62
8:HK:50:ASN:O	8:HK:64:ARG:NH1	2.32	0.62
8:HM:175:PRO:HA	8:HM:390:ARG:CZ	2.29	0.62
8:IC:172:TYR:HD1	8:IC:203:MET:HE1	1.64	0.62
8:IK:306:ASP:HB3	8:IK:309:HIS:CG	2.34	0.62
19:J2:185:HIS:HA	19:J2:187:TYR:CZ	2.33	0.62
8:JE:107:HIS:HA	8:JE:152:LEU:HD23	1.81	0.62
9:KF:331:LEU:HD11	8:KG:177:VAL:HA	1.81	0.62
9:LB:27:GLU:OE2	9:LB:241:ARG:NH2	2.31	0.62
9:LD:194:GLU:OE2	9:LD:262:ARG:NH1	2.31	0.62
9:MD:276:ARG:HH12	23:P:325:GLU:HB2	1.64	0.62
8:MK:50:ASN:O	8:MK:64:ARG:NH1	2.32	0.62
9:ND:67:ASP:O	9:ND:92:PHE:HA	1.98	0.62
8:NI:56:THR:HA	8:OI:285:GLN:HB2	1.81	0.62
24:O3:172:ILE:HD13	24:O3:183:ALA:HB1	1.81	0.62
17:O9:91:SER:OG	11:R2:223:ARG:NH2	2.32	0.62
9:OL:137:HIS:NE2	9:OL:166:THR:OG1	2.29	0.62
27:P7:177:PRO:O	14:T1:340:LYS:NZ	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q4:35:GLU:OE1	28:Q4:35:GLU:N	2.31	0.62
8:QE:53:PHE:HB3	8:QE:61:HIS:HB3	1.79	0.62
9:QJ:73:MET:HE1	9:QJ:92:PHE:HB3	1.80	0.62
9:QL:68:LEU:HB3	9:QL:96:GLY:HA2	1.80	0.62
9:QP:170:VAL:HG11	9:QP:377:LEU:HD21	1.81	0.62
9:SB:48:ASN:O	9:SB:62:ARG:NH2	2.31	0.62
9:TD:310:TYR:OH	9:TD:369:GLY:HA3	1.99	0.62
25:U:23:THR:HG22	25:U:24:ALA:H	1.64	0.62
30:U0:270:LEU:O	30:U0:271:ARG:NH1	2.32	0.62
9:UD:372:THR:HA	9:UD:422:TYR:HE1	1.63	0.62
9:UD:403:MET:N	9:UD:403:MET:SD	2.69	0.62
9:UH:363:MET:HA	9:UH:363:MET:HE3	1.80	0.62
25:V:98:LYS:NZ	25:V:121:ASN:OD1	2.32	0.62
30:V5:316:ARG:NH2	30:V5:320:GLU:OE1	2.32	0.62
9:VB:360:GLY:HA2	39:a:343:PHE:HZ	1.64	0.62
9:VB:372:THR:HA	9:VB:422:TYR:HE1	1.62	0.62
9:VH:228:LEU:HD23	9:VH:300:MET:HE1	1.80	0.62
9:VN:86:ARG:HG2	9:VN:88:ASP:H	1.64	0.62
30:W0:378:LEU:HD11	30:W0:433:ARG:HG3	1.81	0.62
8:WC:303:VAL:HG11	8:WC:384:ILE:HD11	1.80	0.62
8:WI:365:GLY:H	42:f:442:ARG:HH12	1.45	0.62
9:WJ:67:ASP:O	9:WJ:92:PHE:HA	1.99	0.62
31:X:178:LEU:HD22	31:X:183:ILE:HD12	1.80	0.62
31:X:542:TYR:HE1	31:X:595:ILE:HD13	1.62	0.62
39:a:338:GLN:O	39:a:342:GLU:HG2	1.99	0.62
42:e:83:GLN:NE2	42:e:92:ASP:OD2	2.32	0.62
42:e:576:GLU:O	47:o:89:ASN:ND2	2.31	0.62
2:1:467:LEU:HD21	8:IC:372:GLN:HB3	1.81	0.62
9:AB:256:ASN:HD21	8:AC:181:VAL:H	1.46	0.62
9:AP:1:MET:HG3	9:AP:2:ARG:H	1.64	0.62
10:B:32:ASN:OD1	10:B:36:ARG:NH1	2.32	0.62
11:B4:324:ARG:HB3	11:B4:328:GLU:HG3	1.81	0.62
8:BK:195:LEU:HD11	8:BK:264:ARG:HD2	1.82	0.62
12:C3:240:ALA:HA	12:C3:321:LEU:HD21	1.81	0.62
8:CE:2:ARG:HB3	8:CE:242:LEU:HD23	1.80	0.62
8:CG:317:MET:HA	8:CG:317:MET:HE3	1.80	0.62
9:CN:56:GLY:H	40:a4:114:ARG:HH21	1.45	0.62
9:DJ:372:THR:HA	9:DJ:422:TYR:HE1	1.64	0.62
9:DN:330:MET:N	9:DN:330:MET:SD	2.72	0.62
8:EK:254:GLU:HG2	9:EL:98:GLY:HA2	1.81	0.62
8:FG:320:ARG:HD3	8:FG:360:PRO:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GA:137:ILE:HG21	8:GA:154:MET:HE1	1.81	0.62
9:GN:273:LEU:O	9:GN:292:GLN:NE2	2.31	0.62
8:HK:116:ASP:OD2	36:Y1:107:PHE:HB3	1.98	0.62
8:IA:413:MET:N	8:IA:413:MET:SD	2.72	0.62
9:IJ:8:GLN:HE21	9:IJ:14:ASN:HA	1.64	0.62
8:IK:183:GLU:HA	8:IK:186:ASN:ND2	2.14	0.62
19:J1:219:ARG:NH2	41:b2:250:GLN:OE1	2.32	0.62
9:JD:198:GLU:HA	9:JD:264:HIS:HB2	1.80	0.62
9:JF:276:ARG:CZ	15:N2:21:LEU:HD22	2.29	0.62
9:KB:106:TYR:OH	41:b1:397:LEU:N	2.32	0.62
9:LB:114:ASP:OD1	9:LB:115:SER:N	2.32	0.62
8:LC:56:THR:HA	8:MC:285:GLN:HB2	1.81	0.62
22:M3:1:MET:HG3	9:MJ:41:ASP:HB3	1.80	0.62
8:MI:396:ASP:OD2	8:MI:422:ARG:NH2	2.31	0.62
8:NE:386:GLU:N	8:NE:386:GLU:OE2	2.30	0.62
8:NO:90:GLU:OE2	8:NO:121:ARG:NH1	2.32	0.62
17:O7:214:GLN:NE2	17:O7:224:PHE:O	2.32	0.62
8:PC:68:VAL:HG12	8:PC:93:ILE:HB	1.81	0.62
8:PC:292:THR:HG21	8:PC:331:ALA:HB1	1.80	0.62
28:Q2:52:THR:OG1	28:Q2:59:ALA:N	2.32	0.62
28:Q2:193:PRO:HB2	12:S7:353:GLU:OE1	1.99	0.62
9:QJ:48:ASN:O	9:QJ:62:ARG:NH2	2.32	0.62
11:R1:323:TYR:CE1	14:T3:205:ARG:HD3	2.33	0.62
8:RC:112:LYS:HA	8:RC:115:VAL:HG13	1.79	0.62
9:RF:345:ILE:HG12	8:RG:398:MET:HE1	1.81	0.62
9:RN:130:LEU:O	9:RN:162:ARG:NH1	2.32	0.62
8:RO:315:CYS:HB2	8:RO:350:GLY:O	1.99	0.62
12:S4:198:CYS:SG	12:S4:477:ARG:NH1	2.70	0.62
8:SA:56:THR:HA	8:TA:285:GLN:HB2	1.81	0.62
9:SB:202:ILE:HD11	9:SB:207:LEU:HD21	1.81	0.62
8:SG:1:MET:SD	8:SG:2:ARG:N	2.72	0.62
9:SN:130:LEU:O	9:SN:162:ARG:NH1	2.32	0.62
30:U8:355:ASN:O	30:U8:358:GLN:NE2	2.31	0.62
8:UA:50:ASN:O	8:UA:64:ARG:NH1	2.32	0.62
8:UA:320:ARG:HD3	8:UA:360:PRO:HG3	1.81	0.62
9:UD:324:LYS:HE3	8:UE:210:TYR:HB3	1.80	0.62
9:UH:337:ASN:HB3	9:UH:340:TYR:HD2	1.64	0.62
9:UJ:215:LEU:O	9:UJ:276:ARG:NH1	2.31	0.62
25:V:70:PRO:HB2	25:V:73:THR:HB	1.81	0.62
8:VA:292:THR:HG21	8:VA:331:ALA:HB1	1.81	0.62
9:VH:19:LYS:NZ	9:VH:223:GLY:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VN:363:MET:N	9:VN:363:MET:SD	2.73	0.62
31:W:367:LYS:HD3	40:a1:75:VAL:HG21	1.80	0.62
30:W7:149:LEU:O	30:W7:257:LYS:NZ	2.32	0.62
37:YA:175:ARG:HA	37:YA:231:MET:HE3	1.81	0.62
37:YG:93:LEU:HG	37:YG:133:LEU:HD21	1.79	0.62
2:1:617:LEU:HD23	8:IE:42:ILE:HG21	1.81	0.62
3:3:342:TYR:CE1	3:3:346:LEU:HD11	2.33	0.62
4:6:204:ARG:NH2	4:6:216:GLY:O	2.33	0.62
9:AB:37:HIS:HA	17:H:255:ARG:HH12	1.64	0.62
9:BD:48:ASN:O	9:BD:62:ARG:NH2	2.32	0.62
9:BF:222:TYR:O	9:BF:226:ASN:ND2	2.32	0.62
9:CH:320:ARG:NH2	27:P5:15:ASP:O	2.32	0.62
9:EB:36:TYR:O	17:Z2:251:GLN:NE2	2.32	0.62
8:EE:437:VAL:O	9:EF:391:ARG:NH2	2.32	0.62
9:EF:345:ILE:HA	8:EG:398:MET:HE1	1.81	0.62
8:FE:320:ARG:HD3	8:FE:360:PRO:HG3	1.81	0.62
8:FK:292:THR:HG21	8:FK:331:ALA:HB1	1.80	0.62
8:GE:324:VAL:HG12	8:GE:326:LYS:H	1.63	0.62
8:GG:320:ARG:HH21	8:GG:360:PRO:HA	1.65	0.62
9:IB:133:PHE:HZ	9:IB:159:TYR:CD2	2.17	0.62
9:IB:290:THR:OG1	9:IB:329:GLN:OE1	2.17	0.62
9:JD:284:LEU:HD21	9:JD:363:MET:HG2	1.82	0.62
9:KN:48:ASN:O	9:KN:62:ARG:NH2	2.32	0.62
9:LF:324:LYS:HD2	8:LG:222:PRO:HD2	1.81	0.62
9:ML:1:MET:N	9:ML:3:GLU:OE1	2.27	0.62
9:NH:423:GLN:NE2	9:NH:427:ASP:OD2	2.32	0.62
8:NK:216:ASN:O	8:NK:280:LYS:NZ	2.31	0.62
24:O4:155:TYR:O	24:O4:158:LYS:HB2	1.99	0.62
9:OD:8:GLN:HB3	9:OD:65:LEU:HA	1.81	0.62
8:OE:151:SER:HA	8:OE:193:THR:HG21	1.81	0.62
8:PG:70:LEU:HG	8:PG:98:ASP:HA	1.80	0.62
9:PL:114:ASP:N	9:PL:114:ASP:OD2	2.30	0.62
8:PM:88:HIS:CE1	8:PM:90:GLU:HB3	2.35	0.62
8:QG:196:GLU:HG2	8:QG:197:HIS:HD2	1.65	0.62
8:QK:339:ARG:NE	8:QK:339:ARG:O	2.33	0.62
11:R2:268:ARG:NH1	11:R2:271:GLU:OE2	2.32	0.62
8:RG:318:LEU:HB2	8:RG:376:CYS:HB3	1.81	0.62
9:RH:388:MET:HE1	9:RH:394:PHE:HB2	1.80	0.62
8:RI:298:PRO:HA	8:RI:301:GLN:HG2	1.80	0.62
12:S3:205:ARG:HH21	12:S3:211:VAL:H	1.46	0.62
12:S3:287:VAL:HG22	12:S4:400:LEU:HD22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S4:179:ARG:CZ	12:S4:179:ARG:HA	2.28	0.62
12:S4:375:ILE:HG21	12:S4:445:LEU:HD13	1.81	0.62
8:SA:171:ILE:HD13	8:SA:204:VAL:HG13	1.80	0.62
8:SG:70:LEU:HB3	8:SG:98:ASP:HA	1.80	0.62
14:T1:241:TYR:HB2	14:T1:243:HIS:CE1	2.35	0.62
9:TB:83:GLN:O	9:UB:281:TYR:OH	2.17	0.62
8:UG:203:MET:SD	8:UG:203:MET:N	2.69	0.62
9:UL:156:ARG:NH1	9:UL:164:MET:SD	2.71	0.62
30:V6:159:GLU:HG3	30:V6:304:ILE:HG23	1.80	0.62
30:V6:166:GLU:OE2	30:V6:318:ARG:NH1	2.32	0.62
9:VB:156:ARG:NH1	9:VB:164:MET:SD	2.72	0.62
9:VN:8:GLN:HG2	9:VN:14:ASN:HA	1.80	0.62
9:VN:236:VAL:HG13	9:VN:237:THR:HG23	1.80	0.62
31:W:637:MET:SD	31:W:641:ASN:ND2	2.69	0.62
30:W7:239:GLN:NE2	30:W7:243:ASN:OD1	2.32	0.62
8:WA:292:THR:HG21	8:WA:331:ALA:HB1	1.81	0.62
41:b3:361:ILE:HA	41:b3:436:LEU:HD21	1.81	0.62
41:b3:408:GLN:NE2	44:h3:100:GLU:OE2	2.32	0.62
45:m:65:MET:HE2	45:m:70:MET:HA	1.80	0.62
47:o:167:GLN:NE2	47:o:171:ASN:OD1	2.32	0.62
2:1:490:GLU:OE1	9:ID:362:LYS:NZ	2.32	0.62
4:6:191:TRP:HE1	4:6:226:GLY:HA3	1.63	0.62
7:A3:251:ASN:OD1	7:A3:254:ARG:NH2	2.32	0.62
8:AM:317:MET:HA	8:AM:317:MET:HE3	1.81	0.62
9:AP:58:LYS:HE2	9:BP:280:GLN:HB3	1.80	0.62
9:BN:358:PRO:HG2	9:BN:361:LEU:HB3	1.81	0.62
8:DI:288:VAL:HG21	8:DI:327:ASP:HB3	1.80	0.62
8:EC:339:ARG:O	8:EC:339:ARG:NE	2.32	0.62
9:ED:375:GLN:NE2	9:ED:423:GLN:OE1	2.30	0.62
8:EO:7:ILE:HD12	8:EO:137:ILE:HG12	1.81	0.62
9:FN:156:ARG:NH1	9:FN:197:ASP:OD1	2.31	0.62
9:GH:304:ASP:HB2	36:Y2:166:ARG:HG2	1.80	0.62
8:GM:171:ILE:HD13	8:GM:204:VAL:HG23	1.80	0.62
8:HE:387:ALA:HA	8:HE:390:ARG:HD2	1.82	0.62
8:IE:326:LYS:HZ1	9:IF:219:THR:HG22	1.62	0.62
19:J3:119:ASN:O	19:J3:123:MET:HB3	1.97	0.62
8:JC:50:ASN:O	8:JC:64:ARG:NH1	2.32	0.62
8:JE:187:SER:O	8:JE:191:THR:OG1	2.17	0.62
8:JO:154:MET:HE1	8:JO:166:LYS:HD2	1.81	0.62
13:K3:385:LYS:HD3	13:K3:386:PRO:HD2	1.81	0.62
9:LD:396:HIS:HB3	45:l:82:THR:HG21	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MI:320:ARG:HD3	8:MI:360:PRO:HG3	1.79	0.62
9:NH:28:HIS:HD2	9:NH:47:ILE:HG13	1.63	0.62
9:NN:240:LEU:HD11	9:NN:249:ASP:HA	1.81	0.62
9:PD:336:LYS:HD3	9:PD:336:LYS:N	2.14	0.62
8:PI:269:LEU:HD22	8:PI:303:VAL:HG21	1.79	0.62
8:PK:264:ARG:NH1	8:PK:431:ASP:OD2	2.33	0.62
8:PM:320:ARG:HD3	8:PM:360:PRO:HG3	1.80	0.62
11:R1:193:ASN:OD1	11:R1:196:SER:OG	2.16	0.62
8:SA:320:ARG:HD3	8:SA:360:PRO:HG3	1.81	0.62
9:SB:69:GLU:HG2	9:SB:71:GLY:H	1.63	0.62
9:SL:375:GLN:HB3	9:SL:422:TYR:HE1	1.64	0.62
9:TD:269:GLY:HA2	9:TD:300:MET:HE1	1.79	0.62
9:TH:313:VAL:HG13	9:TH:367:PHE:HE1	1.63	0.62
25:U:507:ASP:OD1	25:U:508:THR:N	2.33	0.62
30:U6:78:ILE:HG12	30:U7:195:LEU:HD13	1.79	0.62
9:UF:290:THR:HA	9:UF:293:MET:SD	2.40	0.62
8:UG:173:PRO:O	8:UG:390:ARG:NH2	2.31	0.62
9:UJ:122:LYS:HD3	9:UJ:123:GLU:HG2	1.81	0.62
30:V1:315:ILE:HA	30:V1:318:ARG:HD2	1.80	0.62
30:V3:409:ARG:HD2	30:V4:287:ASP:HB3	1.80	0.62
30:V7:452:GLU:O	30:W0:380:ARG:NH1	2.32	0.62
8:VE:169:PHE:HA	8:VE:202:PHE:HB2	1.81	0.62
8:VI:88:HIS:HB3	8:VI:91:GLN:HG3	1.80	0.62
9:VJ:213:ARG:O	9:VJ:213:ARG:NH1	2.28	0.62
9:WB:48:ASN:O	9:WB:62:ARG:NH2	2.32	0.62
9:WF:213:ARG:NH1	9:WF:214:THR:OG1	2.32	0.62
8:WK:42:ILE:HG21	42:g:239:LEU:HB3	1.82	0.62
9:WL:165:ASN:HB2	9:WL:200:TYR:HE2	1.62	0.62
8:WO:272:TYR:H	8:WO:302:MET:HE1	1.64	0.62
35:XE:75:PHE:HB3	35:XE:133:GLN:HE22	1.64	0.62
38:Z1:147:LEU:HG	38:Z1:149:CYS:H	1.64	0.62
46:i3:1367:VAL:HA	46:i3:1372:LEU:HB2	1.80	0.62
2:1:456:LYS:NZ	2:1:457:TYR:O	2.32	0.62
4:5:348:ASP:HB3	4:5:351:ILE:HG22	1.79	0.62
4:6:160:HIS:O	12:S1:151:ASN:ND2	2.32	0.62
8:AG:50:ASN:O	8:AG:64:ARG:NH1	2.31	0.62
9:AJ:253:LEU:O	9:AJ:257:MET:HB2	1.99	0.62
9:AN:272:PRO:HG3	9:AN:364:SER:HA	1.81	0.62
8:AO:70:LEU:HB3	8:AO:98:ASP:HA	1.81	0.62
8:AO:239:THR:OG1	8:AO:243:ARG:NH1	2.31	0.62
10:B:53:ARG:NH2	8:JI:46:ASP:OD1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B3:120:ARG:O	11:B3:123:ARG:NH1	2.32	0.62
8:BE:194:THR:O	8:BE:198:SER:OG	2.17	0.62
9:CN:403:MET:N	9:CN:403:MET:SD	2.73	0.62
14:D2:184:ARG:HH21	28:Q2:34:LEU:HD13	1.64	0.62
8:DE:168:GLU:N	8:DE:168:GLU:OE1	2.32	0.62
8:EA:1:MET:SD	8:EA:2:ARG:N	2.73	0.62
9:ED:8:GLN:HE21	9:ED:14:ASN:HA	1.64	0.62
8:EG:264:ARG:NH1	8:EG:431:ASP:OD2	2.33	0.62
8:EG:292:THR:HG21	8:EG:331:ALA:HB1	1.81	0.62
15:F:169:HIS:O	15:F:174:LYS:NZ	2.33	0.62
8:FC:50:ASN:O	8:FC:64:ARG:NH1	2.33	0.62
8:GC:7:ILE:HB	8:GC:137:ILE:HG23	1.81	0.62
8:IA:317:MET:N	8:IA:317:MET:SD	2.72	0.62
9:IB:42:LEU:HA	9:IB:45:GLU:HB2	1.80	0.62
9:ID:54:ALA:HB3	9:ID:58:LYS:HB3	1.80	0.62
9:IL:41:ASP:OD1	9:IL:42:LEU:N	2.32	0.62
9:IN:228:LEU:HD11	9:IN:273:LEU:HD21	1.81	0.62
19:J3:87:LEU:O	8:OG:373:ARG:NH2	2.31	0.62
19:J4:271:ARG:NH1	19:J4:278:GLY:O	2.32	0.62
8:JG:169:PHE:HA	8:JG:202:PHE:HB2	1.79	0.62
9:JN:86:ARG:NH2	9:KL:281:TYR:O	2.32	0.62
9:JN:189:VAL:HG11	9:JN:378:PHE:CZ	2.35	0.62
8:JO:310:GLY:HA3	8:JO:383:ALA:HB2	1.81	0.62
9:KF:10:GLY:O	9:KF:14:ASN:ND2	2.33	0.62
9:KH:213:ARG:NH1	9:KH:297:LYS:HB3	2.14	0.62
9:KL:198:GLU:HA	9:KL:264:HIS:HB2	1.82	0.62
8:KM:108:TYR:OH	41:b4:366:LYS:NZ	2.31	0.62
21:L1:99:LEU:HA	9:WF:362:LYS:HD2	1.82	0.62
8:LA:254:GLU:HG2	9:LB:98:GLY:HA2	1.80	0.62
9:LJ:73:MET:HE2	9:LJ:92:PHE:HB3	1.79	0.62
8:LM:317:MET:HE3	8:LM:351:PHE:HD1	1.65	0.62
9:MD:180:VAL:HG23	9:MD:184:ASN:HD21	1.64	0.62
9:MF:346:PRO:HD3	8:MG:397:LEU:HD11	1.82	0.62
9:MN:323:MET:HE1	8:MO:224:TYR:CG	2.35	0.62
9:NB:344:TRP:CD1	9:NB:345:ILE:HG12	2.35	0.62
9:NJ:324:LYS:HE3	8:NK:222:PRO:HG2	1.81	0.62
9:OD:20:PHE:CZ	9:OD:233:MET:HB2	2.34	0.62
26:P1:61:ARG:NE	26:P1:61:ARG:O	2.31	0.62
27:P4:86:PHE:O	27:P4:87:PHE:CG	2.51	0.62
8:QI:295:CYS:HB3	8:QI:377:MET:SD	2.39	0.62
11:R4:121:GLU:OE1	14:T1:409:ARG:NH1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RH:73:MET:N	9:RH:73:MET:SD	2.71	0.62
8:RM:275:VAL:HG12	8:RM:368:LEU:HD11	1.82	0.62
8:RO:315:CYS:HB3	8:RO:317:MET:HE1	1.81	0.62
12:S4:406:ARG:HB2	12:S4:411:LEU:HD23	1.80	0.62
8:SC:324:VAL:HG12	8:SC:326:LYS:H	1.63	0.62
8:SE:27:GLU:OE1	8:SE:243:ARG:NH2	2.33	0.62
9:SF:406:MET:N	9:SF:406:MET:SD	2.72	0.62
8:SI:137:ILE:HG21	8:SI:154:MET:HE1	1.81	0.62
8:TE:139:HIS:O	8:TE:170:ALA:HA	1.99	0.62
8:UE:193:THR:O	8:UE:197:HIS:HB2	1.98	0.62
25:V:31:LEU:HG	25:V:40:VAL:HG12	1.81	0.62
30:V1:350:GLU:HG3	30:V1:458:LYS:HD2	1.80	0.62
9:VF:276:ARG:NH2	39:a:236:ARG:O	2.32	0.62
8:VG:139:HIS:O	8:VG:170:ALA:HA	1.98	0.62
8:VK:40:LYS:HZ3	42:g:152:PRO:HD3	1.64	0.62
8:WC:286:LEU:HD11	8:WC:291:ILE:HG23	1.81	0.62
9:WF:309:ARG:H	9:WF:372:THR:HB	1.63	0.62
9:WH:337:ASN:HB3	9:WH:340:TYR:HD2	1.64	0.62
35:XC:73:LEU:HD22	35:XC:169:ASP:HB3	1.81	0.62
46:i3:1336:ILE:HD12	46:i3:1343:LEU:HD12	1.82	0.62
1:0:56:GLU:OE1	9:JP:277:GLY:N	2.32	0.62
2:2:447:TYR:H	8:IO:221:ARG:HH21	1.46	0.62
4:5:270:GLU:OE2	4:5:366:LYS:NZ	2.30	0.62
4:6:190:GLU:HA	4:6:193:ARG:HB2	1.81	0.62
8:AK:50:ASN:O	8:AK:64:ARG:NH1	2.32	0.62
8:BI:251:ASP:N	8:BI:254:GLU:OE1	2.31	0.62
14:D3:116:GLU:OE1	14:D3:119:ARG:NH1	2.31	0.62
9:DD:101:TRP:NE1	9:DD:145:SER:O	2.32	0.62
8:DQ:316:CYS:HB3	8:DQ:378:LEU:HB2	1.81	0.62
8:EA:70:LEU:HB3	8:EA:98:ASP:HA	1.81	0.62
8:EA:252:LEU:HA	8:EA:255:PHE:CE2	2.34	0.62
8:EA:399:TYR:O	8:EA:402:ARG:NH1	2.33	0.62
8:EC:317:MET:HB2	8:EC:353:VAL:HA	1.82	0.62
9:FJ:371:SER:O	9:FJ:422:TYR:OH	2.16	0.62
8:GG:17:GLY:O	8:GG:21:TRP:HD1	1.83	0.62
9:GL:286:VAL:HG22	9:GL:363:MET:HE1	1.82	0.62
9:HJ:407:GLU:HA	9:HJ:410:GLU:HG2	1.81	0.62
8:HO:28:HIS:CE1	8:HO:48:SER:H	2.16	0.62
8:IA:317:MET:HG3	8:IA:377:MET:HE1	1.81	0.62
8:IE:98:ASP:O	8:IE:105:ARG:NH1	2.32	0.62
9:IH:134:GLN:NE2	9:IH:165:ASN:O	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JH:44:LEU:HB2	9:JH:47:ILE:HD13	1.82	0.62
9:JJ:284:LEU:HD13	9:JJ:362:LYS:HG2	1.80	0.62
20:K1:81:LYS:NZ	8:TC:82:THR:OG1	2.33	0.62
9:KF:257:MET:SD	9:KF:312:THR:OG1	2.55	0.62
9:KJ:237:THR:HG22	9:KJ:250:LEU:HD21	1.82	0.62
17:L:257:PRO:HB3	22:M3:147:TYR:HA	1.81	0.62
9:LL:257:MET:SD	9:LL:312:THR:OG1	2.56	0.62
9:MB:282:ARG:CZ	9:MB:284:LEU:HD21	2.29	0.62
8:MG:254:GLU:HG2	9:MH:98:GLY:HA2	1.80	0.62
8:NA:278:ALA:HA	8:NA:369:ALA:HB2	1.82	0.62
9:NF:295:ASP:N	9:NF:295:ASP:OD1	2.32	0.62
8:NG:324:VAL:HG12	8:NG:326:LYS:H	1.65	0.62
17:O7:302:ASN:HD22	17:O7:305:ARG:HH12	1.47	0.62
8:OC:239:THR:OG1	8:OC:243:ARG:NH1	2.33	0.62
9:OD:290:THR:HA	9:OD:293:MET:HB2	1.82	0.62
27:P3:141:GLN:HG2	27:P3:148:LYS:HG2	1.82	0.62
8:PG:264:ARG:NH1	8:PG:431:ASP:OD2	2.32	0.62
8:PK:275:VAL:HA	8:PK:368:LEU:HD11	1.80	0.62
9:PP:67:ASP:HA	9:PP:143:THR:HG21	1.82	0.62
8:QC:269:LEU:HD13	8:QC:303:VAL:HG21	1.82	0.62
9:RH:156:ARG:NH1	9:RH:197:ASP:OD1	2.32	0.62
8:RK:292:THR:HG21	8:RK:331:ALA:HB1	1.80	0.62
9:RL:69:GLU:HG2	9:RL:71:GLY:H	1.64	0.62
12:S2:197:GLU:OE1	12:S7:248:ARG:NH1	2.32	0.62
8:SE:264:ARG:NH1	8:SE:431:ASP:OD2	2.33	0.62
8:SI:317:MET:HE1	8:SI:375:VAL:HG13	1.81	0.62
8:SM:259:LEU:HD11	8:SM:268:PRO:HG3	1.81	0.62
30:U7:89:ARG:NH2	30:U8:208:HIS:O	2.32	0.62
8:UC:32:PRO:O	8:UC:85:GLN:NE2	2.32	0.62
8:UE:50:ASN:O	8:UE:64:ARG:NH1	2.32	0.62
25:V:411:LYS:NZ	25:V:444:LEU:O	2.33	0.62
8:VO:288:VAL:HG21	8:VO:323:VAL:HG23	1.82	0.62
30:W2:431:LYS:HE3	30:W2:435:ARG:HH21	1.64	0.62
36:Y0:52:SER:OG	36:Y0:53:PHE:N	2.32	0.62
41:b1:414:ARG:NH2	44:h1:106:LEU:O	2.32	0.62
42:e:60:LEU:HG	42:e:101:ARG:HD3	1.80	0.62
42:e:165:VAL:HG12	42:e:213:MET:HE3	1.81	0.62
9:AF:8:GLN:HE21	9:AF:14:ASN:HA	1.65	0.62
9:AH:26:ASP:C	9:AH:359:ARG:HH12	2.08	0.62
8:BE:41:THR:HG22	25:U:224:VAL:HG22	1.81	0.62
8:BK:192:HIS:NE2	8:BK:421:ALA:HA	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FG:239:THR:HG22	8:FG:243:ARG:HG3	1.82	0.62
9:GD:5:VAL:HG22	9:GD:62:ARG:HD2	1.80	0.62
9:GF:318:ARG:HG2	9:GF:358:PRO:HD3	1.81	0.62
8:GG:254:GLU:HG2	9:GH:98:GLY:HA2	1.82	0.62
9:GH:346:PRO:HD2	8:GI:398:MET:HE3	1.82	0.62
9:GL:358:PRO:HG3	9:GL:364:SER:HB2	1.81	0.62
9:GN:332:ASN:HA	36:Y2:38:PHE:CE2	2.35	0.62
9:HD:274:THR:HB	9:HD:278:SER:HB2	1.81	0.62
8:HO:251:ASP:OD2	8:HO:252:LEU:N	2.33	0.62
19:J5:87:LEU:O	8:OO:373:ARG:NH2	2.32	0.62
8:JG:50:ASN:O	8:JG:64:ARG:NH1	2.32	0.62
8:KA:264:ARG:NH1	8:KA:431:ASP:OD2	2.33	0.62
8:KE:147:SER:OG	8:KE:190:THR:OG1	2.18	0.62
9:MB:237:THR:HG22	9:MB:250:LEU:HD21	1.82	0.62
9:MH:237:THR:HG22	9:MH:250:LEU:HD21	1.82	0.62
8:NK:90:GLU:OE2	8:NK:121:ARG:NH1	2.32	0.62
8:NM:53:PHE:HB3	8:NM:61:HIS:O	2.00	0.62
24:O4:129:LEU:HD23	24:O4:164:THR:HB	1.79	0.62
9:OF:58:LYS:NZ	9:OF:59:TYR:O	2.33	0.62
9:OJ:36:TYR:HB2	9:OJ:59:TYR:OH	1.99	0.62
8:OM:298:PRO:HA	8:OM:301:GLN:HG2	1.80	0.62
9:OP:290:THR:HA	9:OP:293:MET:HE3	1.82	0.62
28:Q4:192:CYS:SG	12:S9:360:LYS:NZ	2.72	0.62
8:QC:107:HIS:HA	8:QC:152:LEU:HD23	1.80	0.62
8:QE:317:MET:N	8:QE:317:MET:SD	2.72	0.62
11:R2:407:GLN:OE1	11:R2:407:GLN:N	2.32	0.62
11:R4:298:ARG:HD3	11:R4:298:ARG:N	2.15	0.62
8:RM:437:VAL:O	9:RN:391:ARG:NH2	2.32	0.62
8:SG:186:ASN:O	8:SG:190:THR:OG1	2.15	0.62
8:SI:377:MET:HE3	8:SI:378:LEU:H	1.65	0.62
8:SM:258:ASN:HD21	9:SN:178:THR:HA	1.65	0.62
9:TD:68:LEU:HB3	9:TD:96:GLY:HA2	1.81	0.62
8:UE:31:GLN:N	8:UE:31:GLN:OE1	2.31	0.62
8:UG:320:ARG:HD3	8:UG:360:PRO:HG3	1.81	0.62
8:VG:319:TYR:HB3	8:VG:323:VAL:HG11	1.82	0.62
9:VN:203:ASP:HB3	9:VN:301:ALA:HA	1.80	0.62
30:W4:477:PRO:HB3	30:W4:481:ARG:HD3	1.80	0.62
8:WA:172:TYR:N	8:WA:204:VAL:O	2.33	0.62
47:p:238:LYS:HE2	47:p:239:ARG:HH22	1.64	0.62
2:2:474:HIS:NE2	8:IO:322:ASP:OD1	2.33	0.62
9:AB:156:ARG:NH2	9:AB:197:ASP:OD1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:30:ILE:HD11	9:AJ:47:ILE:HD11	1.82	0.62
11:B5:321:ARG:O	11:B5:324:ARG:NH1	2.33	0.62
8:BE:80:THR:HG21	17:I:275:ILE:HG23	1.82	0.62
9:BF:318:ARG:HD3	9:BF:358:PRO:HD3	1.80	0.62
9:BP:282:ARG:NH2	9:BP:292:GLN:OE1	2.33	0.62
10:C:226:GLU:HB3	9:HP:276:ARG:HH22	1.64	0.62
9:CB:309:ARG:H	9:CB:372:THR:HB	1.65	0.62
8:CE:358:GLN:NE2	8:CE:359:PRO:O	2.31	0.62
8:CG:53:PHE:O	8:CG:64:ARG:NH1	2.33	0.62
8:CQ:53:PHE:HB3	8:CQ:61:HIS:HB3	1.82	0.62
8:DC:264:ARG:NH1	8:DC:431:ASP:OD2	2.32	0.62
8:DE:437:VAL:O	9:DF:391:ARG:NH2	2.28	0.62
9:DP:256:ASN:HD21	8:DQ:181:VAL:H	1.46	0.62
8:DQ:264:ARG:NH1	8:DQ:431:ASP:OD2	2.33	0.62
8:EE:39:ASP:OD1	31:X:435:ARG:NH1	2.32	0.62
9:EN:44:LEU:O	17:Z5:214:GLN:NE2	2.33	0.62
8:FA:165:SER:HB3	8:FA:256:GLN:HE22	1.64	0.62
9:FH:147:MET:HE2	9:FH:151:LEU:HD21	1.81	0.62
9:FN:372:THR:HG21	9:FN:426:GLN:HB2	1.80	0.62
8:GE:292:THR:HG21	8:GE:331:ALA:HB1	1.81	0.62
8:GG:312:TYR:HE2	8:GG:341:ILE:HD12	1.65	0.62
9:GH:68:LEU:HB3	9:GH:96:GLY:HA2	1.82	0.62
9:GH:118:ASP:OD1	9:GH:121:ARG:NH2	2.32	0.62
8:HM:69:ASP:OD1	8:HM:71:GLU:N	2.27	0.62
9:HN:309:ARG:NH2	9:HN:339:SER:O	2.33	0.62
9:ID:7:LEU:HD13	9:ID:151:LEU:HD21	1.82	0.62
8:II:210:TYR:HE1	8:II:227:LEU:HD11	1.63	0.62
9:JF:130:LEU:O	9:JF:162:ARG:NH1	2.32	0.62
9:JF:324:LYS:HB2	8:JG:222:PRO:HD2	1.82	0.62
8:KM:292:THR:HG21	8:KM:331:ALA:HB1	1.81	0.62
9:LB:282:ARG:NH2	9:LB:292:GLN:OE1	2.33	0.62
8:LC:53:PHE:O	8:LC:64:ARG:NH1	2.31	0.62
9:LD:318:ARG:HG2	9:LD:358:PRO:HD3	1.82	0.62
9:LH:248:ALA:HA	9:LH:252:LYS:HD3	1.82	0.62
8:LM:317:MET:SD	8:LM:377:MET:HE1	2.40	0.62
8:NA:119:LEU:HD11	8:NA:156:ARG:HD3	1.82	0.62
9:NF:164:MET:N	9:NF:197:ASP:OD2	2.32	0.62
8:NI:132:LEU:O	8:NI:164:LYS:NZ	2.26	0.62
8:NK:53:PHE:O	8:NK:64:ARG:NH1	2.33	0.62
24:O4:136:LYS:HD3	24:O4:140:PRO:HA	1.81	0.62
8:OG:1:MET:SD	8:OG:2:ARG:N	2.72	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:P1:60:VAL:HG12	26:P1:65:LEU:HD11	1.81	0.62
9:PJ:211:CYS:HB3	9:PJ:220:PRO:HG3	1.81	0.62
9:PN:127:CYS:SG	9:PN:130:LEU:HD13	2.40	0.62
28:Q3:52:THR:OG1	28:Q3:59:ALA:N	2.31	0.62
9:QJ:256:ASN:HD21	8:QK:181:VAL:H	1.45	0.62
9:RF:54:ALA:HA	9:SD:283:ALA:HB2	1.82	0.62
8:RK:289:ALA:O	8:RK:293:ASN:ND2	2.33	0.62
8:RM:413:MET:N	8:RM:413:MET:SD	2.73	0.62
9:RN:305:PRO:HB2	9:RN:310:TYR:HE1	1.64	0.62
12:S4:179:ARG:HA	12:S4:179:ARG:NH1	2.14	0.62
9:SJ:48:ASN:O	9:SJ:62:ARG:NH2	2.32	0.62
8:TE:7:ILE:HD13	8:TE:137:ILE:HG12	1.80	0.62
9:TF:54:ALA:HB3	9:TF:58:LYS:HB3	1.80	0.62
9:TJ:48:ASN:O	9:TJ:62:ARG:NH2	2.33	0.62
9:TL:135:LEU:HD22	9:TL:152:ILE:HD11	1.80	0.62
8:TM:317:MET:HA	8:TM:317:MET:HE2	1.80	0.62
9:UD:70:PRO:HB3	9:UD:92:PHE:CE1	2.35	0.62
8:UO:50:ASN:O	8:UO:64:ARG:NH1	2.33	0.62
8:VA:121:ARG:HA	8:VA:124:LYS:HE2	1.82	0.62
8:VG:102:ASN:HB3	8:VG:105:ARG:HB2	1.82	0.62
9:VH:213:ARG:HE	9:VH:297:LYS:HG2	1.63	0.62
9:WD:48:ASN:O	9:WD:62:ARG:NH2	2.33	0.62
9:WD:323:MET:SD	9:WD:323:MET:N	2.69	0.62
9:WL:251:ARG:O	9:WL:255:VAL:HG12	2.00	0.62
35:XH:101:ARG:NH1	35:XH:116:PRO:O	2.33	0.62
37:YE:175:ARG:HD2	37:YE:175:ARG:O	1.99	0.62
37:YH:144:ARG:O	37:YH:146:ARG:NH1	2.32	0.62
41:b1:380:GLY:HA3	44:h1:51:MET:HE3	1.82	0.62
2:2:481:MET:HE3	9:IP:217:LEU:HD11	1.81	0.62
1:7:201:TRP:CD1	9:LF:276:ARG:HH21	2.18	0.62
8:AI:172:TYR:HB2	8:AI:203:MET:HB2	1.81	0.62
8:AI:226:ASN:ND2	8:AI:367:ASP:OD2	2.33	0.62
8:AM:132:LEU:HB3	8:AM:164:LYS:HZ3	1.65	0.62
9:BF:1:MET:HE2	8:BG:72:PRO:HG3	1.82	0.62
9:BJ:7:LEU:HB3	9:BJ:135:LEU:HB2	1.82	0.62
9:BJ:285:THR:H	9:BJ:288:GLU:HB3	1.64	0.62
12:C0:90:PHE:HE1	30:W4:57:HIS:ND1	1.98	0.62
12:C1:240:ALA:HA	12:C1:321:LEU:HD21	1.82	0.62
12:C3:320:LYS:NZ	11:R3:249:GLN:OE1	2.30	0.62
12:C3:337:TRP:HD1	12:C3:480:TYR:CD2	2.17	0.62
9:CB:173:PRO:HD3	9:CB:380:ARG:CZ	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CE:213:CYS:HB3	8:CE:219:ILE:HB	1.82	0.62
8:CM:255:PHE:O	8:CM:259:LEU:HB2	2.00	0.62
14:D2:188:GLU:HA	14:D2:191:LYS:HE2	1.82	0.62
14:D3:47:ARG:NH2	14:D3:55:GLU:OE1	2.32	0.62
9:DN:5:VAL:HB	9:DN:133:PHE:HD1	1.65	0.62
8:EO:1:MET:SD	8:EO:2:ARG:N	2.73	0.62
9:FB:68:LEU:HB3	9:FB:96:GLY:HA2	1.81	0.62
9:FB:128:ASP:O	36:Y3:47:ARG:NH1	2.33	0.62
8:FK:171:ILE:HD13	8:FK:204:VAL:HG13	1.82	0.62
9:FL:130:LEU:O	9:FL:162:ARG:NH1	2.32	0.62
9:GF:165:ASN:ND2	9:GF:198:GLU:OE1	2.32	0.62
8:HA:239:THR:OG1	8:HA:243:ARG:NH1	2.33	0.62
18:I1:104:TYR:HE2	8:IM:19:ALA:HA	1.65	0.62
8:IA:136:LEU:HB2	8:IA:169:PHE:CE1	2.34	0.62
9:IJ:293:MET:SD	9:IJ:367:PHE:HB2	2.40	0.62
9:IL:5:VAL:HB	9:IL:133:PHE:HD1	1.65	0.62
9:IL:10:GLY:O	9:IL:14:ASN:ND2	2.33	0.62
19:J1:220:SER:O	19:J1:224:ARG:HB2	2.00	0.62
8:JI:322:ASP:OD2	8:JI:373:ARG:NH2	2.31	0.62
8:JK:64:ARG:HG2	8:JK:125:LEU:HD11	1.80	0.62
8:JK:297:GLU:HG3	8:JK:299:ALA:H	1.65	0.62
9:KB:204:ASN:OD1	52:KB:502:GDP:N2	2.33	0.62
8:KE:167:LEU:HD21	8:KE:255:PHE:HZ	1.65	0.62
9:KL:8:GLN:NE2	9:KL:13:GLY:O	2.31	0.62
9:KL:68:LEU:HB3	9:KL:96:GLY:HA2	1.80	0.62
9:LD:372:THR:HG21	9:LD:426:GLN:HB2	1.81	0.62
9:LJ:274:THR:OG1	9:LJ:282:ARG:NH1	2.33	0.62
9:LL:48:ASN:O	9:LL:62:ARG:NH2	2.32	0.62
22:M3:30:VAL:HG22	22:M3:33:VAL:HG22	1.81	0.62
8:MI:168:GLU:HB2	8:MI:201:ALA:HA	1.82	0.62
9:NF:275:SER:O	9:NF:279:GLN:NE2	2.32	0.62
8:NM:7:ILE:HB	8:NM:137:ILE:HG13	1.81	0.62
25:O5:516:MET:SD	25:O5:531:ILE:HG13	2.40	0.62
8:OA:271:THR:HB	8:OA:377:MET:HB3	1.81	0.62
9:OL:306:ARG:NH2	36:Y5:238:PHE:O	2.32	0.62
8:OM:51:THR:HG21	8:OM:243:ARG:HG2	1.80	0.62
27:P4:90:GLN:NE2	27:P4:90:GLN:HA	2.14	0.62
8:PC:279:GLU:N	8:PC:279:GLU:OE2	2.33	0.62
8:PI:70:LEU:HG	8:PI:98:ASP:HA	1.82	0.62
8:PK:34:GLY:HA3	8:PK:60:LYS:HE2	1.81	0.62
9:QH:86:ARG:HG3	9:QH:89:ASN:H	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QK:12:ALA:C	8:QK:16:ILE:HD12	2.25	0.62
29:S:297:ARG:NH2	38:Z1:140:SER:OG	2.32	0.62
29:S:375:ARG:NH2	29:S:376:SER:OG	2.33	0.62
8:SE:320:ARG:HD3	8:SE:360:PRO:HG3	1.82	0.62
14:T1:439:SER:O	30:U3:366:GLN:NE2	2.33	0.62
30:U0:433:ARG:NH1	30:U1:119:ASP:OD2	2.32	0.62
30:U9:402:ARG:HB3	30:U9:406:GLU:HG2	1.82	0.62
8:UE:320:ARG:HD3	8:UE:360:PRO:HG3	1.81	0.62
30:V3:390:LYS:HB2	30:V4:279:PHE:HA	1.81	0.62
9:VH:210:ILE:HG12	9:VH:297:LYS:HZ3	1.64	0.62
30:W0:313:ASN:O	30:W0:317:LEU:HB2	1.99	0.62
30:W0:355:ASN:HA	30:W0:358:GLN:HG2	1.81	0.62
9:WH:372:THR:HA	9:WH:422:TYR:HE1	1.64	0.62
9:WL:1:MET:SD	9:WL:2:ARG:N	2.73	0.62
9:WN:1:MET:N	9:WN:128:ASP:OD1	2.33	0.62
34:X7:96:ASP:HA	34:X7:142:LEU:HA	1.82	0.62
35:XC:70:GLY:O	37:YC:62:ARG:NH2	2.32	0.62
37:YA:84:ILE:HD11	37:YA:118:MET:HA	1.82	0.62
40:a4:84:LYS:NZ	40:a4:91:LEU:O	2.32	0.62
41:b5:154:LEU:HD23	41:b5:224:LEU:HD13	1.81	0.62
46:i3:1425:LYS:HG2	46:i3:1512:ARG:HH11	1.65	0.62
3:3:39:ARG:HH12	3:3:43:SER:HB3	1.64	0.62
8:AE:377:MET:HE2	8:AE:379:SER:HB3	1.81	0.62
8:AG:56:THR:HG22	8:AG:60:LYS:H	1.64	0.62
8:AG:203:MET:H	8:AG:203:MET:HE3	1.64	0.62
9:AL:321:MET:HB3	8:AM:221:ARG:HH22	1.65	0.62
8:BG:2:ARG:HH22	9:BH:71:GLY:HA3	1.64	0.62
12:C1:80:MET:HE1	30:W5:36:CYS:HB3	1.82	0.62
9:CF:1:MET:N	9:CF:128:ASP:OD2	2.33	0.62
14:D4:47:ARG:NH1	14:D4:47:ARG:O	2.31	0.62
8:DC:298:PRO:HG3	8:DC:308:ARG:HE	1.64	0.62
8:DO:264:ARG:NH1	8:DO:431:ASP:OD2	2.33	0.62
15:E:168:ASP:HB3	15:E:174:LYS:HE2	1.82	0.62
8:EC:320:ARG:HD3	8:EC:360:PRO:HG3	1.80	0.62
9:EJ:218:THR:HG21	31:Y:413:PRO:HA	1.80	0.62
8:EK:221:ARG:HD2	17:M:31:VAL:HG12	1.81	0.62
8:FA:116:ASP:HA	8:FA:119:LEU:HD12	1.81	0.62
9:FD:5:VAL:HG22	9:FD:62:ARG:HD2	1.82	0.62
8:FE:171:ILE:HD13	8:FE:204:VAL:HG13	1.82	0.62
9:FF:130:LEU:O	9:FF:162:ARG:NH1	2.33	0.62
8:FK:218:ASP:OD2	8:FK:280:LYS:NZ	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GG:50:ASN:O	8:GG:64:ARG:NH1	2.33	0.62
9:GH:8:GLN:HB3	9:GH:65:LEU:HA	1.82	0.62
9:GN:48:ASN:O	9:GN:62:ARG:NH2	2.32	0.62
8:HC:50:ASN:O	8:HC:64:ARG:NH1	2.32	0.62
9:HH:318:ARG:HD3	9:HH:358:PRO:HD3	1.82	0.62
19:J4:219:ARG:NH1	9:KN:195:ASN:HB3	2.12	0.62
9:JJ:156:ARG:HG3	9:JJ:195:ASN:HB3	1.82	0.62
9:JN:136:THR:HG22	9:JN:167:PHE:HB2	1.81	0.62
8:JO:172:TYR:HB2	8:JO:203:MET:HB2	1.80	0.62
8:LG:46:ASP:H	25:V:45:MET:CE	2.07	0.62
8:OE:314:ALA:HB3	8:OE:380:ASN:HB2	1.81	0.62
8:OK:239:THR:OG1	8:OK:243:ARG:NH1	2.33	0.62
9:ON:182:PRO:HG2	9:ON:388:MET:HE1	1.82	0.62
9:PN:60:VAL:HG11	9:QN:281:TYR:HB3	1.79	0.62
9:QB:326:VAL:HA	9:QB:329:GLN:HG3	1.81	0.62
8:QG:31:GLN:HG2	8:QG:35:GLN:H	1.63	0.62
9:QJ:358:PRO:HG2	9:QJ:361:LEU:HB3	1.82	0.62
8:QO:50:ASN:O	8:QO:64:ARG:NH1	2.33	0.62
9:RD:50:TYR:HE2	9:RD:241:ARG:HD3	1.64	0.62
8:RG:269:LEU:HD22	8:RG:303:VAL:HG21	1.81	0.62
9:RL:54:ALA:HA	9:SJ:283:ALA:HB2	1.82	0.62
9:SN:178:THR:HB	9:SN:181:GLU:HB3	1.82	0.62
9:TD:8:GLN:HB3	9:TD:65:LEU:HA	1.80	0.62
9:TF:192:LEU:HD21	9:TF:199:THR:HG21	1.82	0.62
30:V1:328:LEU:HB3	30:V1:332:MET:HE1	1.81	0.62
8:VC:264:ARG:NH1	8:VC:431:ASP:OD2	2.32	0.62
9:VD:363:MET:HE3	9:VD:364:SER:H	1.64	0.62
8:VK:264:ARG:NH1	8:VK:431:ASP:OD2	2.33	0.62
9:VN:149:THR:HB	9:VN:191:GLN:HG2	1.82	0.62
9:VN:324:LYS:HG3	8:VO:222:PRO:HD2	1.82	0.62
2:2:288:LYS:HD2	2:2:289:PRO:HD2	1.81	0.61
3:4:436:ASP:HA	3:4:439:ARG:HD3	1.82	0.61
7:A2:380:GLU:HA	7:A2:383:ILE:HD12	1.82	0.61
9:AN:156:ARG:NH2	9:AN:197:ASP:OD1	2.32	0.61
9:BH:362:LYS:HE3	9:BH:362:LYS:HA	1.82	0.61
8:BI:147:SER:OG	8:BI:190:THR:OG1	2.16	0.61
9:CL:184:ASN:OD1	9:CL:398:TYR:OH	2.18	0.61
8:CQ:132:LEU:O	8:CQ:164:LYS:NZ	2.33	0.61
9:DF:286:VAL:HG23	9:DF:287:PRO:HD3	1.80	0.61
8:DI:264:ARG:NH1	8:DI:431:ASP:OD2	2.32	0.61
8:DK:206:ASN:OD1	50:DK:501:GTP:N2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:254:GLU:HG2	9:DL:98:GLY:HA2	1.82	0.61
8:DQ:150:ALA:O	8:DQ:154:MET:HG3	1.99	0.61
8:EE:339:ARG:O	8:EE:339:ARG:NH2	2.33	0.61
8:EI:388:TRP:HB3	8:EI:425:LEU:HD11	1.82	0.61
8:EK:51:THR:HG21	8:EK:243:ARG:HG2	1.82	0.61
8:FE:317:MET:HE1	8:FE:375:VAL:HG23	1.81	0.61
8:GA:14:VAL:HG12	8:GA:67:PHE:HD2	1.65	0.61
9:GF:48:ASN:O	9:GF:62:ARG:NH2	2.33	0.61
9:GL:8:GLN:HE21	9:GL:14:ASN:HA	1.64	0.61
8:GM:340:THR:HA	36:Y2:69:ARG:HE	1.64	0.61
9:HB:1:MET:HE2	9:HB:2:ARG:HE	1.64	0.61
9:HB:46:ARG:NH2	8:HC:76:ASP:OD2	2.32	0.61
8:HO:69:ASP:OD1	8:HO:70:LEU:N	2.33	0.61
18:I1:116:LYS:NZ	18:I1:117:ARG:O	2.31	0.61
9:IB:247:ASN:ND2	8:IC:11:GLN:OE1	2.33	0.61
9:ID:325:GLU:HA	9:ID:328:GLU:HB3	1.82	0.61
8:IE:88:HIS:HB2	9:JF:281:TYR:CE1	2.35	0.61
8:IK:172:TYR:N	8:IK:204:VAL:O	2.31	0.61
8:JE:292:THR:HG21	8:JE:331:ALA:HB1	1.81	0.61
9:JH:60:VAL:HG11	9:JH:86:ARG:HH21	1.64	0.61
8:KG:288:VAL:HG11	8:KG:323:VAL:HG23	1.82	0.61
9:KJ:51:TYR:HB3	9:KJ:59:TYR:HB3	1.82	0.61
9:LH:8:GLN:OE1	9:LH:17:GLY:HA3	1.99	0.61
8:MK:437:VAL:O	9:ML:391:ARG:NH2	2.27	0.61
8:NA:203:MET:SD	8:NA:203:MET:N	2.68	0.61
9:NF:237:THR:HG22	9:NF:250:LEU:HD21	1.82	0.61
8:NM:318:LEU:HB3	8:NM:376:CYS:HB3	1.82	0.61
9:NN:42:LEU:HA	9:NN:45:GLU:HB2	1.81	0.61
9:OB:273:LEU:O	9:OB:292:GLN:NE2	2.34	0.61
26:P2:94:ARG:H	26:P2:97:LYS:HE2	1.65	0.61
8:PG:311:LYS:HD3	8:PG:344:VAL:HA	1.81	0.61
8:PI:326:LYS:HG2	9:PJ:212:PHE:HE1	1.65	0.61
8:PK:213:CYS:HA	8:PK:217:LEU:HD13	1.82	0.61
8:PO:154:MET:HA	8:PO:157:LEU:HB2	1.82	0.61
9:QB:209:ASP:HB3	9:QB:213:ARG:HH21	1.65	0.61
9:QH:325:GLU:H	8:QI:221:ARG:NH2	1.98	0.61
11:R3:136:GLU:HB3	11:R3:261:THR:HG22	1.82	0.61
11:R3:344:GLN:OE1	11:R4:52:GLN:NE2	2.31	0.61
9:RP:69:GLU:HG2	9:RP:71:GLY:H	1.65	0.61
12:S0:188:THR:HG22	12:S0:485:ARG:HH22	1.63	0.61
12:S3:143:THR:HG22	12:S4:399:ARG:HH22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SI:139:HIS:O	8:SI:170:ALA:HA	1.99	0.61
8:TA:70:LEU:HB3	8:TA:98:ASP:HA	1.82	0.61
9:TD:48:ASN:O	9:TD:62:ARG:NH2	2.33	0.61
8:TK:320:ARG:HD3	8:TK:360:PRO:HG3	1.82	0.61
9:TL:324:LYS:HG3	8:TM:222:PRO:HD2	1.82	0.61
30:U7:232:LEU:HD22	30:U7:324:LEU:HD13	1.82	0.61
8:UA:58:ALA:HB3	8:UA:60:LYS:HE2	1.81	0.61
25:V:185:ASP:OD1	25:V:186:CYS:N	2.33	0.61
8:VE:55:GLU:HB3	43:i:222:PRO:HG3	1.81	0.61
9:VF:61:PRO:HD3	9:VF:84:ILE:HG22	1.81	0.61
9:VF:274:THR:OG1	9:VF:279:GLN:NE2	2.33	0.61
9:VF:322:SER:OG	8:VG:222:PRO:O	2.14	0.61
30:W0:373:ASN:O	30:W0:376:MET:HB2	1.99	0.61
42:g:527:ALA:HB1	42:g:529:TRP:HE1	1.65	0.61
46:i3:1443:ILE:HD12	46:i3:1483:ILE:HG23	1.82	0.61
7:A5:173:LYS:HA	7:A5:176:ARG:HE	1.64	0.61
9:AJ:8:GLN:HE21	9:AJ:14:ASN:HA	1.65	0.61
8:AM:384:ILE:HG23	8:AM:432:TYR:HE2	1.65	0.61
9:AP:417:ASP:HB2	37:YH:175:ARG:HH22	1.65	0.61
9:BB:48:ASN:O	9:BB:62:ARG:NH2	2.32	0.61
9:BB:211:CYS:HA	9:BB:215:LEU:HB2	1.81	0.61
9:BD:346:PRO:HD2	8:BE:398:MET:HE3	1.82	0.61
9:BJ:42:LEU:HD21	9:BJ:356:ILE:HD13	1.81	0.61
8:BK:27:GLU:OE1	8:BK:243:ARG:NH2	2.33	0.61
9:CD:256:ASN:HD21	8:CE:181:VAL:H	1.47	0.61
8:CE:40:LYS:HB3	8:CE:42:ILE:HG23	1.80	0.61
9:CF:156:ARG:HG3	9:CF:195:ASN:HB3	1.81	0.61
9:CJ:54:ALA:HB3	9:CJ:58:LYS:HB3	1.82	0.61
15:E:279:ASN:HB3	15:E:283:ASP:OD1	1.99	0.61
8:EG:116:ASP:N	8:EG:116:ASP:OD1	2.33	0.61
8:FA:23:LEU:HD13	8:FA:363:VAL:HB	1.82	0.61
9:FN:136:THR:HG22	9:FN:167:PHE:HB2	1.81	0.61
9:GD:337:ASN:HB3	9:GD:340:TYR:HD2	1.64	0.61
8:GE:275:VAL:HA	8:GE:368:LEU:HD11	1.82	0.61
9:GF:245:GLN:O	8:GG:11:GLN:NE2	2.33	0.61
9:GH:274:THR:HB	9:GH:278:SER:HB2	1.82	0.61
9:GL:248:ALA:HA	9:GL:252:LYS:HD3	1.80	0.61
17:H:264:ARG:NH2	25:T:104:GLN:OE1	2.34	0.61
8:HG:141:PHE:HB2	8:HG:173:PRO:HD3	1.82	0.61
9:HJ:31:ASP:OD1	9:HJ:35:THR:N	2.33	0.61
8:HK:52:PHE:HE2	8:HK:239:THR:HG21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HK:203:MET:N	8:HK:203:MET:SD	2.71	0.61
8:HK:271:THR:HA	8:HK:302:MET:HE1	1.82	0.61
9:HL:48:ASN:O	9:HL:62:ARG:NH2	2.34	0.61
8:HO:319:TYR:HE2	8:HO:328:VAL:HG13	1.65	0.61
9:HP:284:LEU:HB3	9:HP:363:MET:HE3	1.83	0.61
8:IC:68:VAL:HG12	8:IC:93:ILE:HB	1.80	0.61
8:II:172:TYR:N	8:II:204:VAL:O	2.30	0.61
8:IK:66:VAL:HG12	8:IK:68:VAL:HG13	1.81	0.61
9:IL:130:LEU:O	9:IL:162:ARG:NH1	2.32	0.61
9:IP:171:PRO:HD2	9:IP:171:PRO:O	2.00	0.61
19:J1:214:LYS:HB3	19:J1:215:LEU:HD12	1.82	0.61
19:J3:137:GLU:OE2	19:J3:137:GLU:N	2.32	0.61
8:JE:154:MET:HE1	8:JE:166:LYS:HD2	1.81	0.61
9:JN:48:ASN:O	9:JN:62:ARG:NH2	2.32	0.61
20:K1:102:ILE:HD11	47:o:161:GLU:HB2	1.82	0.61
20:K2:29:GLU:O	20:K2:33:GLN:HB2	2.01	0.61
8:KE:53:PHE:O	8:KE:64:ARG:NH1	2.33	0.61
8:LA:50:ASN:O	8:LA:64:ARG:NH1	2.33	0.61
22:M3:116:THR:HG22	22:M3:137:PHE:HE1	1.64	0.61
8:MA:51:THR:HG21	8:MA:243:ARG:HG2	1.82	0.61
9:MF:130:LEU:O	9:MF:162:ARG:NH1	2.33	0.61
8:MM:213:CYS:HA	8:MM:217:LEU:HD13	1.82	0.61
8:NM:360:PRO:O	8:NM:370:LYS:NZ	2.30	0.61
17:O7:234:MET:HE1	17:O7:242:GLN:NE2	2.15	0.61
8:PG:172:TYR:N	8:PG:204:VAL:O	2.31	0.61
9:PL:48:ASN:O	9:PL:62:ARG:NH2	2.32	0.61
9:PN:130:LEU:O	9:PN:162:ARG:NH1	2.30	0.61
8:PO:320:ARG:HD3	8:PO:360:PRO:HG3	1.82	0.61
9:RJ:285:THR:HB	9:RJ:287:PRO:HD2	1.83	0.61
12:S9:182:GLU:OE1	12:S9:183:ARG:NH1	2.33	0.61
8:SA:172:TYR:HB2	8:SA:203:MET:SD	2.41	0.61
9:SB:73:MET:HE2	9:SB:92:PHE:HB3	1.80	0.61
8:SI:360:PRO:O	8:SI:370:LYS:NZ	2.33	0.61
8:SM:3:GLU:H	8:SM:133:GLN:HG2	1.66	0.61
14:T4:320:TYR:HB2	30:U1:268:PHE:HE2	1.65	0.61
9:TF:198:GLU:HB2	9:TF:266:PHE:HE2	1.65	0.61
8:TI:206:ASN:HB3	8:TI:210:TYR:CE1	2.31	0.61
30:U2:76:PRO:HA	30:U2:82:LEU:HD12	1.81	0.61
9:UB:229:VAL:HG22	9:UB:233:MET:SD	2.39	0.61
9:UL:337:ASN:HB3	9:UL:340:TYR:HD2	1.66	0.61
8:UO:292:THR:HG21	8:UO:331:ALA:HB1	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V1:336:PHE:HD1	30:V1:473:ARG:HH21	1.48	0.61
30:V4:188:LEU:HD11	30:V4:219:VAL:HG13	1.82	0.61
30:V8:271:ARG:HD2	4:j1:192:LYS:HG3	1.82	0.61
9:VB:68:LEU:HD21	9:VB:147:MET:HE2	1.82	0.61
8:WC:183:GLU:HG3	8:WC:184:PRO:HD3	1.82	0.61
8:WE:132:LEU:O	8:WE:164:LYS:NZ	2.30	0.61
9:WH:318:ARG:HD3	9:WH:358:PRO:HD3	1.81	0.61
34:X8:124:ARG:O	34:X8:128:ASP:HB2	1.98	0.61
37:YA:27:THR:O	37:YA:29:LYS:N	2.33	0.61
42:f:16:LEU:HD13	42:f:615:LYS:HB2	1.81	0.61
42:f:362:MET:HA	42:f:613:ARG:HH12	1.64	0.61
42:g:115:GLU:HB3	42:g:129:LEU:HG	1.81	0.61
46:i4:1345:ARG:HA	46:i4:1348:LYS:HD2	1.81	0.61
3:4:404:ARG:NH2	8:GO:366:GLY:O	2.33	0.61
8:AA:28:HIS:ND1	8:AA:47:ASP:OD2	2.33	0.61
8:AA:147:SER:OG	8:AA:190:THR:OG1	2.17	0.61
9:AD:429:THR:OG1	9:AD:431:GLU:O	2.17	0.61
9:AF:372:THR:HG21	9:AF:426:GLN:HB2	1.83	0.61
8:AI:33:ASP:O	8:AI:60:LYS:NZ	2.34	0.61
11:B1:203:VAL:HG11	14:D1:121:ILE:HG21	1.83	0.61
8:BI:326:LYS:HZ2	9:BJ:220:PRO:HD2	1.64	0.61
9:BL:27:GLU:OE2	9:BL:318:ARG:NH2	2.30	0.61
12:C3:123:ASP:OD2	12:C4:437:ARG:NH1	2.34	0.61
8:CE:297:GLU:OE1	8:CE:300:ASN:N	2.31	0.61
9:CH:252:LYS:NZ	50:CI:501:GTP:O3G	2.31	0.61
9:CH:318:ARG:HD3	9:CH:358:PRO:HD3	1.82	0.61
9:DF:314:ALA:HB3	9:DF:368:ILE:HG22	1.82	0.61
8:DM:276:ILE:HD12	8:DM:280:LYS:HG3	1.82	0.61
8:EK:437:VAL:O	9:EL:391:ARG:NH2	2.29	0.61
8:EM:437:VAL:O	9:EN:391:ARG:NH2	2.32	0.61
8:FA:388:TRP:HB3	8:FA:425:LEU:HD21	1.82	0.61
8:FM:326:LYS:HD3	9:FN:208:TYR:HD2	1.63	0.61
9:FN:48:ASN:O	9:FN:62:ARG:NH2	2.33	0.61
9:GD:117:LEU:HB3	9:GD:121:ARG:HH21	1.65	0.61
9:HD:147:MET:HE1	9:HD:151:LEU:HD23	1.81	0.61
9:HD:156:ARG:NH2	9:HD:197:ASP:OD1	2.33	0.61
8:HG:161:TYR:O	8:HG:166:LYS:NZ	2.29	0.61
8:HG:293:ASN:ND2	49:y:159:ASN:O	2.32	0.61
8:HI:53:PHE:O	8:HI:64:ARG:NH1	2.33	0.61
8:HI:225:THR:OG1	8:HI:229:ARG:NH2	2.34	0.61
9:HN:48:ASN:O	9:HN:62:ARG:NH2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HP:1:MET:SD	9:HP:2:ARG:N	2.73	0.61
8:IE:377:MET:HE2	8:IE:379:SER:HB3	1.82	0.61
8:IG:261:PRO:HA	9:IH:394:PHE:CD2	2.35	0.61
8:II:252:LEU:HA	8:II:255:PHE:CE2	2.35	0.61
9:JD:8:GLN:HB3	9:JD:65:LEU:HA	1.81	0.61
8:JI:286:LEU:O	8:JI:373:ARG:NH1	2.32	0.61
8:KG:311:LYS:HD2	8:KG:436:GLY:HA2	1.82	0.61
9:KH:358:PRO:HG2	9:KH:361:LEU:HB3	1.82	0.61
17:L:234:MET:SD	17:L:242:GLN:NE2	2.73	0.61
9:LD:11:GLN:HA	9:LD:72:THR:HG21	1.81	0.61
8:MA:326:LYS:HD2	9:MB:220:PRO:HD2	1.81	0.61
8:MG:437:VAL:O	9:MH:391:ARG:NH2	2.32	0.61
8:MO:139:HIS:NE2	8:MO:168:GLU:OE1	2.33	0.61
9:MP:272:PRO:HG3	9:MP:364:SER:HA	1.82	0.61
8:NG:172:TYR:HB3	8:NG:205:ASP:HB3	1.81	0.61
9:NJ:32:PRO:HB2	9:NJ:83:GLN:HE22	1.65	0.61
8:OC:392:ASP:O	8:OC:422:ARG:NH2	2.33	0.61
8:OC:437:VAL:O	9:OD:391:ARG:NH2	2.33	0.61
9:OJ:323:MET:HE1	8:OK:210:TYR:CE2	2.35	0.61
8:OO:139:HIS:O	8:OO:170:ALA:HA	2.00	0.61
27:P3:170:ASN:HD21	11:R0:372:ARG:HH21	1.49	0.61
9:PD:299:MET:N	9:PD:299:MET:SD	2.71	0.61
8:PE:203:MET:HE1	8:PE:303:VAL:HG13	1.82	0.61
9:PF:407:GLU:HA	9:PF:410:GLU:HG2	1.82	0.61
9:PJ:389:PHE:CZ	9:PJ:405:GLU:HG3	2.35	0.61
9:QH:325:GLU:H	8:QI:221:ARG:HH22	1.47	0.61
9:RL:73:MET:N	9:RL:73:MET:SD	2.73	0.61
9:RL:229:VAL:O	9:RL:233:MET:HG2	2.00	0.61
12:S8:369:LEU:HA	14:T1:41:LEU:HD21	1.81	0.61
12:S9:480:TYR:HE1	12:S9:484:LEU:HB2	1.65	0.61
9:SD:173:PRO:HG3	9:SD:380:ARG:HD2	1.82	0.61
9:TD:320:ARG:HE	9:TD:355:ASP:HB3	1.64	0.61
9:TJ:378:PHE:HA	9:TJ:381:ILE:HD12	1.81	0.61
30:U2:137:GLY:O	30:U2:141:ASN:ND2	2.33	0.61
8:UC:153:LEU:HA	8:UC:156:ARG:HD2	1.82	0.61
9:UD:56:GLY:H	39:a:283:LYS:HG2	1.65	0.61
8:UG:292:THR:HG21	8:UG:331:ALA:HB1	1.82	0.61
8:UI:50:ASN:O	8:UI:64:ARG:NH1	2.33	0.61
9:UL:118:ASP:OD1	9:UL:121:ARG:NH2	2.31	0.61
30:V2:177:LEU:HD21	30:V2:229:MET:HB2	1.81	0.61
30:V8:217:ARG:HB3	30:V8:335:GLN:HE22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VC:52:PHE:C	8:VC:64:ARG:HE	2.09	0.61
8:VE:269:LEU:HD11	8:VE:384:ILE:HG22	1.83	0.61
9:VH:187:LEU:O	9:VH:191:GLN:NE2	2.34	0.61
8:VI:149:PHE:HA	8:VI:152:LEU:HG	1.83	0.61
31:W:257:ASP:OD2	31:W:281:ARG:NH2	2.33	0.61
30:W5:365:LEU:HA	30:W5:368:ILE:HD12	1.82	0.61
8:WE:336:LYS:NZ	9:WF:174:LYS:O	2.32	0.61
9:WJ:273:LEU:O	9:WJ:292:GLN:NE2	2.31	0.61
31:X:110:ASP:OD1	31:X:110:ASP:N	2.32	0.61
35:XG:129:TRP:HB3	35:XG:183:LEU:HD21	1.81	0.61
39:c:404:ARG:HA	39:c:407:LYS:HD3	1.82	0.61
3:3:231:ARG:HH12	30:W2:474:LYS:HZ1	1.48	0.61
9:AF:26:ASP:OD1	9:AF:359:ARG:NH2	2.33	0.61
8:AG:41:THR:HG21	31:X:80:SER:HB3	1.82	0.61
9:AN:164:MET:HE3	9:AN:164:MET:HA	1.81	0.61
11:B3:323:TYR:CE1	14:D2:205:ARG:HD3	2.35	0.61
9:BP:77:ARG:NH1	9:BP:82:GLY:O	2.33	0.61
12:C6:36:ARG:HD3	12:C6:40:ARG:O	2.01	0.61
8:CM:2:ARG:HB2	8:CM:242:LEU:HD23	1.82	0.61
9:DN:293:MET:SD	9:DN:367:PHE:HB2	2.40	0.61
8:EA:203:MET:N	8:EA:203:MET:SD	2.73	0.61
9:ED:337:ASN:HB3	9:ED:340:TYR:HD2	1.66	0.61
9:FD:376:GLU:HG2	9:FD:380:ARG:HH12	1.65	0.61
9:FN:256:ASN:HD21	8:FO:181:VAL:H	1.48	0.61
9:GD:11:GLN:NE2	9:GD:72:THR:OG1	2.33	0.61
8:GO:50:ASN:O	8:GO:64:ARG:NH1	2.32	0.61
9:HD:124:ALA:HB1	9:HD:130:LEU:HD21	1.82	0.61
9:HD:401:GLU:HA	36:Y0:18:PRO:HB3	1.81	0.61
9:HL:334:GLN:HE22	9:HL:348:ASN:H	1.48	0.61
9:ID:107:THR:OG1	9:ID:401:GLU:OE1	2.17	0.61
8:IG:258:ASN:ND2	8:IG:352:LYS:HG2	2.16	0.61
9:IP:242:PHE:HB3	9:IP:356:ILE:HD12	1.83	0.61
19:J2:219:ARG:O	9:KF:156:ARG:NH2	2.34	0.61
9:JD:324:LYS:H	8:JE:221:ARG:NH2	1.92	0.61
8:JE:214:ARG:HH21	8:JE:215:ARG:HH21	1.48	0.61
8:JM:317:MET:HB3	8:JM:353:VAL:HA	1.81	0.61
9:KD:48:ASN:O	9:KD:62:ARG:NH2	2.33	0.61
8:KK:301:GLN:NE2	8:KK:305:CYS:O	2.34	0.61
8:LK:297:GLU:O	8:LK:301:GLN:NE2	2.33	0.61
8:MA:3:GLU:HA	8:MA:51:THR:HA	1.83	0.61
8:MC:289:ALA:O	8:MC:293:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MF:48:ASN:O	9:MF:62:ARG:NH2	2.33	0.61
9:NB:118:ASP:N	9:NB:118:ASP:OD1	2.33	0.61
9:NH:350:LYS:NZ	9:NH:351:THR:O	2.32	0.61
9:NN:8:GLN:HE21	9:NN:14:ASN:HA	1.65	0.61
9:NN:325:GLU:HA	9:NN:328:GLU:HG3	1.82	0.61
8:OC:180:ALA:HB3	8:OC:183:GLU:HG3	1.81	0.61
9:OJ:26:ASP:O	9:OJ:359:ARG:NH1	2.33	0.61
9:OJ:48:ASN:O	9:OJ:62:ARG:NH2	2.32	0.61
9:OL:1:MET:HE3	9:OL:2:ARG:HG3	1.81	0.61
9:PB:7:LEU:HB2	9:PB:135:LEU:HD13	1.81	0.61
8:PC:286:LEU:O	8:PC:373:ARG:NH1	2.33	0.61
9:PJ:69:GLU:HG2	9:PJ:71:GLY:H	1.64	0.61
9:PJ:249:ASP:OD1	9:PJ:252:LYS:HG3	2.00	0.61
9:PN:7:LEU:N	9:PN:134:GLN:O	2.33	0.61
8:QG:295:CYS:HB3	8:QG:377:MET:SD	2.40	0.61
8:QK:271:THR:HB	8:QK:377:MET:HB2	1.83	0.61
8:QM:259:LEU:HD21	8:QM:316:CYS:HB2	1.82	0.61
8:QO:188:ILE:HG23	8:QO:425:LEU:HD11	1.82	0.61
9:QP:54:ALA:HB3	9:QP:58:LYS:HB3	1.82	0.61
11:R2:324:ARG:HD2	11:R2:328:GLU:HG3	1.83	0.61
9:RD:245:GLN:NE2	9:RD:323:MET:SD	2.74	0.61
9:RL:237:THR:HG22	9:RL:250:LEU:HD21	1.81	0.61
8:RO:136:LEU:HG	8:RO:138:PHE:CE1	2.35	0.61
12:S7:163:GLU:OE2	12:S7:315:ARG:NH1	2.34	0.61
8:SG:360:PRO:O	8:SG:370:LYS:NZ	2.33	0.61
9:SJ:161:ASP:OD2	9:SJ:162:ARG:NH1	2.33	0.61
14:T2:30:ALA:HB1	14:T3:189:LEU:HD11	1.81	0.61
14:T4:175:GLU:HB3	14:T4:300:VAL:HG22	1.82	0.61
8:TA:151:SER:HA	8:TA:193:THR:HG21	1.83	0.61
8:TA:297:GLU:O	8:TA:301:GLN:NE2	2.27	0.61
8:TM:75:VAL:HG12	8:TM:79:ARG:HE	1.64	0.61
30:U6:162:ARG:HH21	30:U6:311:ARG:HH12	1.45	0.61
30:V7:170:MET:HE1	30:V7:314:SER:HA	1.82	0.61
8:VC:317:MET:HA	8:VC:317:MET:HE2	1.81	0.61
9:VH:198:GLU:HA	9:VH:264:HIS:HB2	1.82	0.61
8:VK:316:CYS:HB3	8:VK:378:LEU:HB2	1.81	0.61
9:WF:252:LYS:NZ	50:WG:501:GTP:O3G	2.32	0.61
41:b1:395:ARG:HD2	41:b1:398:VAL:HG13	1.81	0.61
41:b4:366:LYS:HG3	41:b4:369:GLN:HE21	1.64	0.61
4:j1:186:ASP:HB2	4:j1:190:GLU:OE2	1.99	0.61
43:k:143:PRO:HB3	43:k:146:ILE:HD11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:275:PHE:N	8:II:358:GLN:OE1	2.29	0.61
4:5:122:VAL:HG12	4:5:178:ILE:HG12	1.82	0.61
8:AK:396:ASP:OD1	35:XF:53:ASN:ND2	2.34	0.61
9:AP:359:ARG:HE	33:X5:128:VAL:HG11	1.66	0.61
8:BC:245:ASP:HA	8:BC:249:ASN:HD21	1.65	0.61
9:BJ:382:SER:HB2	9:BJ:415:MET:HE1	1.81	0.61
8:CI:53:PHE:HB3	8:CI:61:HIS:HB3	1.81	0.61
9:CJ:156:ARG:HG3	9:CJ:195:ASN:HB3	1.82	0.61
9:DJ:114:ASP:N	9:DJ:114:ASP:OD1	2.33	0.61
9:DN:156:ARG:HD3	9:DN:164:MET:HG3	1.82	0.61
8:DO:295:CYS:HB3	8:DO:377:MET:SD	2.40	0.61
8:DQ:136:LEU:HD12	8:DQ:169:PHE:HE2	1.65	0.61
15:E:296:GLU:OE2	12:S6:71:ARG:NE	2.33	0.61
9:EB:257:MET:SD	9:EB:314:ALA:HB2	2.40	0.61
8:EG:326:LYS:NZ	9:EH:218:THR:O	2.28	0.61
8:FE:147:SER:OG	8:FE:190:THR:OG1	2.16	0.61
8:FG:53:PHE:HB3	8:FG:61:HIS:HB3	1.83	0.61
9:GD:306:ARG:HD2	36:Y2:240:ILE:HB	1.81	0.61
9:GL:20:PHE:CE1	9:GL:233:MET:HE2	2.36	0.61
8:HA:203:MET:SD	8:HA:203:MET:N	2.70	0.61
9:HB:198:GLU:HA	9:HB:264:HIS:HB2	1.82	0.61
8:HO:292:THR:HG21	8:HO:331:ALA:HB1	1.83	0.61
8:IA:53:PHE:O	8:IA:64:ARG:NH1	2.32	0.61
9:IB:7:LEU:N	9:IB:134:GLN:O	2.30	0.61
8:IK:109:THR:HG23	8:IK:411:GLU:OE2	2.00	0.61
8:IK:137:ILE:HG22	8:IK:168:GLU:HA	1.82	0.61
9:IL:133:PHE:HD2	9:IL:164:MET:HE1	1.65	0.61
8:IO:258:ASN:HD21	9:IP:179:VAL:H	1.49	0.61
9:IP:44:LEU:HA	9:IP:47:ILE:HD11	1.82	0.61
9:JD:213:ARG:HE	9:JD:216:LYS:HE2	1.65	0.61
8:JI:251:ASP:HB3	8:JI:254:GLU:HG3	1.82	0.61
8:JO:280:LYS:HE3	8:JO:280:LYS:HA	1.82	0.61
8:KI:113:GLU:N	8:KI:113:GLU:OE2	2.32	0.61
9:KJ:153:SER:HA	9:KJ:195:ASN:HD22	1.65	0.61
9:KJ:325:GLU:N	9:KJ:325:GLU:OE1	2.31	0.61
8:KO:288:VAL:HA	8:KO:291:ILE:HG12	1.80	0.61
8:LI:276:ILE:HD11	8:LI:286:LEU:HD11	1.83	0.61
9:MJ:324:LYS:HB2	8:MK:222:PRO:HD2	1.83	0.61
9:ML:68:LEU:HD23	9:ML:112:LEU:HD22	1.82	0.61
8:NE:56:THR:HG22	8:OE:285:GLN:HG3	1.82	0.61
9:NH:156:ARG:NH2	9:NH:197:ASP:OD1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NM:32:PRO:O	8:NM:85:GLN:NE2	2.34	0.61
17:O7:213:ILE:HD12	17:O7:213:ILE:H	1.66	0.61
9:OD:86:ARG:HB3	9:OD:89:ASN:ND2	2.15	0.61
8:OI:402:ARG:HD3	8:OI:405:VAL:HG21	1.83	0.61
8:OK:53:PHE:O	8:OK:64:ARG:NH1	2.33	0.61
8:OM:183:GLU:HA	8:OM:186:ASN:HD22	1.66	0.61
8:PM:209:ILE:HD13	8:PM:227:LEU:HG	1.82	0.61
9:PP:299:MET:N	9:PP:299:MET:SD	2.69	0.61
8:QK:292:THR:HG21	8:QK:331:ALA:HB1	1.82	0.61
11:R3:321:ARG:O	11:R3:324:ARG:NH1	2.33	0.61
8:RC:320:ARG:HD3	8:RC:360:PRO:HG3	1.82	0.61
8:RE:292:THR:HG21	8:RE:331:ALA:HB1	1.82	0.61
9:RF:284:LEU:HD21	9:RF:363:MET:HB2	1.83	0.61
12:S3:123:ASP:OD2	12:S4:437:ARG:NH1	2.34	0.61
9:SB:284:LEU:HB3	9:SB:362:LYS:HZ1	1.65	0.61
9:SN:173:PRO:HG3	9:SN:380:ARG:HE	1.64	0.61
9:TD:325:GLU:OE2	8:TE:221:ARG:NH1	2.32	0.61
8:TI:50:ASN:O	8:TI:64:ARG:NH1	2.34	0.61
8:TM:239:THR:OG1	8:TM:243:ARG:NH1	2.34	0.61
30:U0:226:GLN:OE1	30:U0:230:ARG:NH2	2.33	0.61
30:V2:392:ALA:HB1	30:V2:420:VAL:HG22	1.82	0.61
9:VH:45:GLU:O	48:r:157:TYR:OH	2.16	0.61
8:VK:239:THR:OG1	8:VK:243:ARG:NH1	2.34	0.61
31:W:704:THR:HG22	31:W:706:ASP:H	1.65	0.61
9:WB:77:ARG:O	9:WB:83:GLN:NE2	2.32	0.61
8:WC:182:VAL:HG13	8:WC:185:TYR:HD2	1.65	0.61
9:WD:170:VAL:HG11	9:WD:377:LEU:HD21	1.83	0.61
9:WP:27:GLU:OE1	9:WP:241:ARG:NH1	2.28	0.61
31:Y:536:ASN:HB3	31:Y:539:LYS:HZ3	1.64	0.61
39:b:416:THR:HA	39:b:419:LYS:HE3	1.81	0.61
39:d:433:HIS:O	39:d:437:VAL:HG23	2.00	0.61
42:e:260:LYS:NZ	42:e:301:GLU:O	2.33	0.61
42:e:468:ARG:HG2	42:e:508:VAL:HG13	1.82	0.61
42:g:460:HIS:HE1	42:g:486:ILE:HG13	1.65	0.61
43:i:222:PRO:HD2	43:i:223:LYS:H	1.64	0.61
47:p:535:ASP:O	47:p:537:GLN:NE2	2.33	0.61
49:y:59:TYR:OH	49:y:104:MET:O	2.17	0.61
3:3:397:ARG:HH21	8:GC:371:VAL:HA	1.65	0.61
8:AA:357:TYR:HB3	33:X4:53:TYR:HB3	1.82	0.61
9:AL:322:SER:H	8:AM:221:ARG:HH22	1.49	0.61
9:AP:114:ASP:N	9:AP:114:ASP:OD1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BG:245:ASP:HA	8:BG:249:ASN:HD21	1.64	0.61
8:BK:53:PHE:O	8:BK:64:ARG:NH1	2.34	0.61
8:BM:437:VAL:O	9:BN:391:ARG:NH2	2.33	0.61
8:CI:54:SER:HB3	8:CI:64:ARG:HH21	1.66	0.61
9:CL:48:ASN:O	9:CL:62:ARG:NH2	2.33	0.61
9:CL:320:ARG:HH22	27:P6:18:GLN:HB2	1.65	0.61
8:CO:271:THR:HB	8:CO:377:MET:HB3	1.80	0.61
9:CP:165:ASN:HB2	9:CP:200:TYR:HE2	1.65	0.61
8:DC:437:VAL:O	9:DD:391:ARG:NH2	2.25	0.61
9:DP:362:LYS:HE2	9:DP:363:MET:HG2	1.82	0.61
9:EH:375:GLN:NE2	9:EH:423:GLN:OE1	2.33	0.61
9:FB:125:GLU:OE1	9:GB:336:LYS:NZ	2.33	0.61
8:FE:316:CYS:HB3	8:FE:378:LEU:HB2	1.82	0.61
8:FI:326:LYS:NZ	9:FJ:219:THR:HA	2.16	0.61
9:GF:83:GLN:O	9:HF:281:TYR:OH	2.19	0.61
8:GG:123:ARG:HH11	49:y:162:ARG:HH21	1.46	0.61
8:GG:295:CYS:HB3	8:GG:377:MET:HE2	1.81	0.61
9:GH:245:GLN:O	8:GI:11:GLN:NE2	2.34	0.61
8:GK:116:ASP:N	8:GK:116:ASP:OD1	2.31	0.61
9:GL:309:ARG:HG3	9:GL:426:GLN:HG3	1.82	0.61
9:GN:36:TYR:CE2	9:GN:44:LEU:HB2	2.36	0.61
8:HC:399:TYR:O	8:HC:402:ARG:NH1	2.32	0.61
9:HH:344:TRP:H	9:HH:344:TRP:CD1	2.18	0.61
8:HI:320:ARG:HD3	8:HI:360:PRO:HG3	1.80	0.61
8:HM:336:LYS:O	8:HM:339:ARG:NH2	2.33	0.61
8:IA:316:CYS:HB3	8:IA:378:LEU:HB2	1.82	0.61
9:ID:172:SER:OG	9:ID:205:GLU:OE2	2.15	0.61
9:IF:10:GLY:O	9:IF:14:ASN:ND2	2.32	0.61
8:II:116:ASP:N	8:II:116:ASP:OD1	2.34	0.61
9:IN:201:CYS:SG	9:IN:374:ILE:HD11	2.41	0.61
19:J4:176:SER:HB3	9:ON:219:THR:HG23	1.83	0.61
8:JE:49:PHE:O	8:JE:53:PHE:N	2.33	0.61
8:KC:75:VAL:HG12	8:KC:79:ARG:HE	1.65	0.61
9:KH:337:ASN:HB3	9:KH:340:TYR:HD2	1.66	0.61
8:LG:302:MET:N	8:LG:302:MET:SD	2.63	0.61
8:LI:51:THR:HG21	8:LI:243:ARG:HG2	1.81	0.61
9:LJ:13:GLY:HA2	9:LJ:136:THR:HG22	1.82	0.61
9:LL:210:ILE:O	9:LL:214:THR:OG1	2.18	0.61
22:M4:165:LEU:CD1	27:P6:87:PHE:HZ	2.11	0.61
8:MG:318:LEU:HB2	8:MG:376:CYS:HB3	1.83	0.61
8:MM:175:PRO:O	8:MM:394:LYS:NZ	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MM:326:LYS:HD2	9:MN:220:PRO:HD2	1.83	0.61
9:MP:8:GLN:HE21	9:MP:14:ASN:HA	1.65	0.61
8:NK:360:PRO:O	8:NK:370:LYS:NZ	2.28	0.61
9:NL:125:GLU:OE2	9:OL:291:GLN:NE2	2.33	0.61
17:O7:234:MET:HE1	17:O7:242:GLN:HE22	1.65	0.61
8:OK:50:ASN:O	8:OK:64:ARG:NH1	2.33	0.61
9:OL:270:PHE:CE1	9:OL:272:PRO:HD2	2.35	0.61
8:OM:65:ALA:O	8:OM:91:GLN:NE2	2.33	0.61
8:PI:327:ASP:OD1	8:PI:327:ASP:N	2.33	0.61
9:PN:10:GLY:O	9:PN:14:ASN:ND2	2.32	0.61
8:PO:286:LEU:O	8:PO:373:ARG:NH1	2.32	0.61
8:QE:172:TYR:HB2	8:QE:203:MET:HB3	1.82	0.61
9:QN:269:GLY:HA2	9:QN:300:MET:HE3	1.83	0.61
8:RI:172:TYR:N	8:RI:204:VAL:O	2.34	0.61
29:S:117:ALA:HA	29:S:120:LYS:HD3	1.81	0.61
12:S0:134:GLN:NE2	12:S0:138:THR:OG1	2.34	0.61
12:S3:125:SER:OG	30:V5:158:TYR:OH	2.10	0.61
12:S7:369:LEU:HD11	14:T2:41:LEU:HD23	1.82	0.61
9:SH:16:ILE:HD13	9:SH:136:THR:HG21	1.82	0.61
25:T:258:GLU:O	40:a1:159:ARG:NH2	2.24	0.61
9:TB:323:MET:HE1	8:TC:223:THR:HA	1.81	0.61
9:TF:318:ARG:HG2	9:TF:358:PRO:HD3	1.80	0.61
8:TM:50:ASN:O	8:TM:64:ARG:NH1	2.34	0.61
9:TN:213:ARG:HH21	9:TN:297:LYS:HG3	1.65	0.61
9:UD:130:LEU:O	9:UD:162:ARG:NH1	2.31	0.61
9:VB:58:LYS:NZ	9:VB:59:TYR:O	2.33	0.61
8:VG:345:ASP:N	8:VG:345:ASP:OD1	2.34	0.61
9:VL:287:PRO:O	9:VL:291:GLN:NE2	2.32	0.61
30:W0:201:ARG:HG2	30:W0:461:THR:HG23	1.83	0.61
8:WC:3:GLU:H	8:WC:133:GLN:HG2	1.65	0.61
9:WF:347:ASN:ND2	8:WG:180:ALA:O	2.34	0.61
9:WL:173:PRO:HG2	9:WL:174:LYS:HD3	1.82	0.61
9:WP:3:GLU:OE2	9:WP:48:ASN:ND2	2.34	0.61
37:YD:23:SER:HB3	37:YD:29:LYS:HG3	1.82	0.61
41:b3:326:GLN:O	41:b3:330:ASN:ND2	2.33	0.61
44:h3:128:GLN:HA	44:h3:131:VAL:HG22	1.83	0.61
4:5:269:SER:OG	4:5:270:GLU:OE1	2.18	0.61
7:A2:207:ILE:HG13	33:X4:146:LEU:HB2	1.81	0.61
9:AB:273:LEU:O	9:AB:292:GLN:NE2	2.33	0.61
11:B1:94:GLN:HA	11:B1:94:GLN:HE21	1.64	0.61
9:BP:1:MET:N	9:BP:128:ASP:OD1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C2:90:PHE:HB2	17:P8:183:ARG:HB2	1.81	0.61
12:C4:174:LEU:HD12	12:C4:322:ARG:HG3	1.81	0.61
12:C6:75:VAL:HG21	28:Q5:55:GLY:HA2	1.82	0.61
9:CJ:277:GLY:HA2	22:M3:194:LEU:HD13	1.82	0.61
9:DJ:330:MET:SD	9:DJ:330:MET:N	2.74	0.61
9:DL:309:ARG:H	9:DL:372:THR:HB	1.65	0.61
9:EN:256:ASN:HD21	8:EO:181:VAL:H	1.48	0.61
8:FA:50:ASN:O	8:FA:64:ARG:NH1	2.33	0.61
8:FA:265:ILE:HG23	8:FA:432:TYR:HE1	1.66	0.61
9:FL:271:ALA:HB2	9:FL:293:MET:HE2	1.82	0.61
9:FN:245:GLN:O	8:FO:11:GLN:NE2	2.33	0.61
9:GB:130:LEU:O	9:GB:162:ARG:NH1	2.28	0.61
9:GB:273:LEU:O	9:GB:292:GLN:NE2	2.25	0.61
9:GD:144:GLY:N	52:GD:502:GDP:O1B	2.32	0.61
9:HH:257:MET:CE	9:HH:314:ALA:HB2	2.31	0.61
8:IA:239:THR:OG1	8:IA:243:ARG:NH1	2.33	0.61
9:IL:198:GLU:HB2	9:IL:266:PHE:CE2	2.35	0.61
19:J3:176:SER:HB3	9:OJ:219:THR:HG23	1.82	0.61
8:JE:338:LYS:HD3	8:JE:341:ILE:H	1.65	0.61
9:JP:356:ILE:HD12	9:JP:357:PRO:HD2	1.82	0.61
9:KB:114:ASP:OD2	9:KB:115:SER:N	2.34	0.61
9:KF:103:LYS:HZ2	41:b2:390:ARG:HH12	1.47	0.61
8:KM:388:TRP:HB3	8:KM:425:LEU:HD11	1.83	0.61
9:LD:149:THR:HB	9:LD:191:GLN:HG3	1.82	0.61
8:LI:151:SER:HA	8:LI:193:THR:HG21	1.83	0.61
9:LJ:313:VAL:HG13	9:LJ:367:PHE:HE1	1.66	0.61
8:LO:91:GLN:N	43:k:129:ARG:HH12	1.98	0.61
8:MC:60:LYS:NZ	8:MC:85:GLN:O	2.34	0.61
8:MI:3:GLU:OE2	8:MI:64:ARG:NH2	2.34	0.61
8:MI:226:ASN:ND2	8:MI:367:ASP:OD2	2.33	0.61
9:NF:10:GLY:O	9:NF:14:ASN:ND2	2.34	0.61
9:OB:361:LEU:HD12	9:OB:362:LYS:H	1.65	0.61
8:OK:90:GLU:OE2	8:OK:121:ARG:NH1	2.34	0.61
8:OK:206:ASN:HB3	8:OK:210:TYR:CE1	2.35	0.61
9:ON:113:VAL:HG11	9:ON:150:LEU:HD23	1.82	0.61
9:PH:324:LYS:HG3	8:PI:222:PRO:HD2	1.82	0.61
8:PI:286:LEU:O	8:PI:373:ARG:NH1	2.34	0.61
8:PK:107:HIS:HA	8:PK:152:LEU:HD23	1.82	0.61
8:PO:139:HIS:O	8:PO:170:ALA:HA	2.01	0.61
9:QF:323:MET:HE1	9:QF:353:VAL:HG21	1.82	0.61
9:QH:70:PRO:HA	9:QH:73:MET:HE3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QK:53:PHE:HB3	8:QK:61:HIS:HB3	1.82	0.61
8:QK:154:MET:HA	8:QK:157:LEU:HG	1.82	0.61
9:QN:118:ASP:OD1	9:QN:121:ARG:NH2	2.33	0.61
29:R:86:HIS:NE2	25:U:21:THR:OG1	2.27	0.61
11:R1:71:VAL:HG11	11:R1:182:THR:HG21	1.81	0.61
8:RG:88:HIS:CE1	8:RG:90:GLU:HB3	2.35	0.61
9:RJ:345:ILE:HG12	8:RK:398:MET:HE1	1.83	0.61
9:RN:8:GLN:NE2	9:RN:13:GLY:O	2.33	0.61
9:RN:345:ILE:HG12	8:RO:398:MET:HE1	1.81	0.61
12:S2:279:GLU:OE2	14:T2:42:ALA:HB3	2.01	0.61
12:S4:202:ARG:O	12:S4:205:ARG:NH1	2.34	0.61
9:SB:136:THR:HG22	9:SB:167:PHE:HB2	1.81	0.61
8:SI:264:ARG:NH1	8:SI:431:ASP:OD2	2.34	0.61
9:SN:68:LEU:HB3	9:SN:96:GLY:HA2	1.83	0.61
14:T1:63:ARG:HH12	14:T2:411:SER:C	2.08	0.61
14:T1:411:SER:HA	14:T1:414:LYS:HD3	1.81	0.61
8:TE:319:TYR:HE2	8:TE:328:VAL:HG22	1.66	0.61
9:TF:48:ASN:O	9:TF:62:ARG:NH2	2.33	0.61
8:TK:51:THR:HG21	8:TK:243:ARG:HG2	1.83	0.61
30:U3:201:ARG:NH1	30:U3:205:ASP:O	2.34	0.61
30:U6:170:MET:HE1	30:U6:318:ARG:HG2	1.82	0.61
9:UD:118:ASP:OD1	9:UD:121:ARG:NH2	2.33	0.61
8:UE:7:ILE:HB	8:UE:137:ILE:HG23	1.83	0.61
9:UH:229:VAL:HG12	9:UH:233:MET:SD	2.40	0.61
30:V7:232:LEU:HD22	30:V7:324:LEU:HD23	1.80	0.61
9:VD:8:GLN:HB3	9:VD:65:LEU:HA	1.83	0.61
8:VG:83:TYR:HB3	8:VG:86:LEU:HD23	1.83	0.61
9:VL:321:MET:N	9:VL:321:MET:SD	2.74	0.61
8:VM:399:TYR:O	8:VM:402:ARG:NH1	2.34	0.61
9:VN:313:VAL:O	9:VN:349:VAL:HA	2.01	0.61
30:W4:347:ILE:HD11	30:W4:465:ASP:HB2	1.83	0.61
9:WP:102:ALA:HB1	9:WP:403:MET:HE1	1.83	0.61
31:X:89:ILE:HD13	31:X:98:ARG:HH21	1.66	0.61
37:YA:175:ARG:O	37:YA:175:ARG:NH1	2.33	0.61
40:a4:68:PRO:O	40:a4:70:CYS:N	2.31	0.61
42:f:161:ALA:HA	42:f:178:GLY:HA3	1.83	0.61
3:3:30:ALA:N	9:NL:78:SER:O	2.30	0.61
9:AJ:54:ALA:HA	9:BJ:283:ALA:HB2	1.81	0.61
9:AJ:346:PRO:HD3	8:AK:397:LEU:HD11	1.82	0.61
9:BJ:67:ASP:OD1	9:BJ:68:LEU:N	2.32	0.61
9:CB:130:LEU:O	9:CB:162:ARG:NH1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:D3:377:LEU:HA	14:D3:380:GLU:HG2	1.81	0.61
9:DB:48:ASN:O	9:DB:62:ARG:NH2	2.32	0.61
8:DG:231:ILE:HA	8:DG:234:ILE:HD12	1.82	0.61
8:DI:238:ILE:HD11	8:DI:378:LEU:HD21	1.82	0.61
8:DM:90:GLU:OE2	8:DM:121:ARG:NH2	2.33	0.61
8:DM:264:ARG:NH1	8:DM:431:ASP:OD2	2.34	0.61
9:DP:173:PRO:HG3	9:DP:380:ARG:HD2	1.81	0.61
8:EK:2:ARG:HB3	8:EK:242:LEU:HD23	1.83	0.61
9:EL:67:ASP:HB3	9:EL:73:MET:HE2	1.83	0.61
9:EN:237:THR:HG22	9:EN:250:LEU:HD21	1.82	0.61
9:GD:48:ASN:O	9:GD:62:ARG:NH2	2.33	0.61
9:HD:55:THR:HB	9:ID:283:ALA:HA	1.82	0.61
8:HE:345:ASP:OD1	8:HE:345:ASP:N	2.34	0.61
9:HF:217:LEU:H	9:HF:217:LEU:HD23	1.64	0.61
9:HL:211:CYS:HA	9:HL:215:LEU:HB2	1.81	0.61
9:IB:166:THR:HG23	9:IB:199:THR:HG23	1.83	0.61
8:IC:154:MET:HE1	8:IC:166:LYS:HD3	1.82	0.61
8:II:7:ILE:HD12	8:II:137:ILE:HG12	1.82	0.61
9:JL:48:ASN:O	9:JL:62:ARG:NH2	2.34	0.61
8:JM:51:THR:HG23	8:JM:52:PHE:HD1	1.64	0.61
8:JO:191:THR:HA	8:JO:194:THR:HG22	1.82	0.61
9:KD:139:LEU:HA	9:KD:145:SER:HB2	1.82	0.61
9:KD:156:ARG:NH1	9:KD:197:ASP:OD1	2.31	0.61
8:KO:302:MET:N	8:KO:302:MET:SD	2.62	0.61
8:LE:12:ALA:O	8:LE:16:ILE:HG13	2.01	0.61
9:LF:219:THR:OG1	29:R:35:ARG:NH2	2.34	0.61
8:LG:191:THR:HA	8:LG:194:THR:HG22	1.83	0.61
9:LH:347:ASN:ND2	8:LI:180:ALA:O	2.34	0.61
9:LJ:31:ASP:OD1	9:LJ:34:GLY:N	2.32	0.61
9:LL:156:ARG:NH1	9:LL:197:ASP:OD1	2.34	0.61
8:ME:279:GLU:N	8:ME:279:GLU:OE2	2.33	0.61
9:MH:257:MET:HE3	9:MH:314:ALA:HB2	1.81	0.61
8:MI:171:ILE:HD13	8:MI:204:VAL:HG23	1.82	0.61
8:MI:254:GLU:HG3	9:MJ:98:GLY:HA2	1.82	0.61
8:MO:53:PHE:O	8:MO:64:ARG:NH1	2.34	0.61
9:ND:273:LEU:O	9:ND:292:GLN:NE2	2.34	0.61
25:O5:436:ARG:HH21	25:O5:453:GLU:HG3	1.65	0.61
25:O6:46:GLY:H	25:O6:51:ARG:NH1	1.97	0.61
8:OA:320:ARG:HD3	8:OA:360:PRO:HG3	1.82	0.61
9:OD:289:LEU:O	9:OD:293:MET:N	2.33	0.61
9:OL:8:GLN:HB3	9:OL:65:LEU:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OL:48:ASN:O	9:OL:62:ARG:NH2	2.34	0.61
9:PD:69:GLU:HG2	9:PD:71:GLY:H	1.65	0.61
9:PD:325:GLU:HA	9:PD:328:GLU:HB3	1.81	0.61
9:QB:357:PRO:HB2	9:QB:358:PRO:HD2	1.81	0.61
8:QE:302:MET:SD	8:QE:302:MET:N	2.73	0.61
9:QJ:8:GLN:HE21	9:QJ:14:ASN:HA	1.66	0.61
9:QL:322:SER:OG	8:QM:222:PRO:O	2.14	0.61
8:QO:25:CYS:HB2	8:QO:30:ILE:HB	1.83	0.61
11:R3:258:ARG:HD3	11:R3:397:LEU:HD22	1.81	0.61
9:RD:151:LEU:HA	9:RD:154:LYS:HE3	1.83	0.61
12:S0:199:LEU:HB3	12:S0:219:LEU:HD21	1.80	0.61
8:SG:271:THR:HB	8:SG:377:MET:HB3	1.81	0.61
8:SG:317:MET:HE3	8:SG:318:LEU:N	2.15	0.61
9:TD:54:ALA:HB3	9:TD:58:LYS:HB3	1.83	0.61
8:TI:151:SER:HA	8:TI:193:THR:HG21	1.81	0.61
8:TK:70:LEU:HB3	8:TK:98:ASP:HA	1.82	0.61
25:U:347:CYS:HG	25:U:351:THR:HG1	1.49	0.61
30:U3:173:LEU:HD22	30:U3:318:ARG:HG2	1.83	0.61
9:UB:143:THR:HA	9:UB:147:MET:HE2	1.82	0.61
9:UH:1:MET:N	9:UH:3:GLU:OE1	2.33	0.61
30:V6:335:GLN:NE2	30:V6:339:THR:OG1	2.34	0.61
30:V7:334:LYS:O	30:V7:338:ASN:ND2	2.34	0.61
8:VC:239:THR:OG1	8:VC:243:ARG:NH1	2.34	0.61
9:VF:1:MET:HE1	9:VF:2:ARG:HE	1.66	0.61
30:W7:466:LYS:HA	30:W7:470:MET:HG2	1.81	0.61
8:WA:132:LEU:O	8:WA:164:LYS:NZ	2.34	0.61
8:WE:172:TYR:HH	8:WE:388:TRP:CD1	2.17	0.61
8:WG:147:SER:OG	8:WG:190:THR:OG1	2.18	0.61
9:WH:289:LEU:HG	9:WH:363:MET:HE3	1.83	0.61
9:WN:249:ASP:H	9:WN:252:LYS:HB2	1.66	0.61
2:1:687:ILE:HD12	2:1:692:ILE:HD11	1.82	0.61
3:4:359:GLU:HA	3:4:362:ARG:HD2	1.82	0.61
4:5:157:VAL:O	4:5:160:HIS:ND1	2.34	0.61
7:A3:204:VAL:HG12	7:A3:206:ARG:H	1.64	0.61
7:A3:361:GLN:NE2	7:A4:34:SER:HB2	2.16	0.61
9:AF:346:PRO:HD2	8:AG:398:MET:HE2	1.82	0.61
9:AP:155:ILE:HA	9:AP:158:GLU:HG2	1.82	0.61
12:C0:152:ASP:OD1	11:R0:270:ARG:NH2	2.33	0.61
12:C3:243:GLN:NE2	12:C3:314:GLU:OE1	2.34	0.61
8:CC:212:ILE:HD11	8:CC:300:ASN:HA	1.83	0.61
9:CD:193:VAL:O	9:CD:262:ARG:NH2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:320:ARG:NH2	27:P4:15:ASP:O	2.34	0.61
9:CL:1:MET:O	8:CM:96:LYS:NZ	2.34	0.61
8:CM:367:ASP:N	8:CM:367:ASP:OD1	2.34	0.61
14:D5:380:GLU:HA	14:D5:383:GLU:HG3	1.83	0.61
8:DE:269:LEU:HD21	8:DE:384:ILE:HD12	1.82	0.61
8:DM:53:PHE:HB3	8:DM:61:HIS:HB3	1.82	0.61
8:FA:107:HIS:HA	8:FA:152:LEU:HD11	1.82	0.61
9:FN:180:VAL:HG13	9:FN:184:ASN:HD21	1.65	0.61
8:GG:88:HIS:HB3	8:GG:91:GLN:HG2	1.83	0.61
8:GM:130:THR:OG1	26:P2:122:HIS:ND1	2.32	0.61
8:HC:189:LEU:O	8:HC:192:HIS:ND1	2.28	0.61
8:HC:271:THR:HB	8:HC:377:MET:HB3	1.82	0.61
8:IE:219:ILE:HG23	8:IE:222:PRO:HG3	1.82	0.61
9:JF:31:ASP:OD1	9:JF:35:THR:N	2.33	0.61
9:JH:323:MET:HA	9:JH:326:VAL:HG12	1.83	0.61
9:JL:372:THR:HA	9:JL:422:TYR:HE1	1.66	0.61
9:JP:173:PRO:HG3	9:JP:380:ARG:HD3	1.83	0.61
8:KA:362:VAL:H	8:KA:370:LYS:HZ2	1.48	0.61
9:KB:323:MET:HG2	8:KC:210:TYR:OH	1.99	0.61
9:LF:271:ALA:O	9:LF:292:GLN:NE2	2.33	0.61
8:LO:156:ARG:NH1	45:i1:67:THR:OG1	2.33	0.61
9:LP:178:THR:HB	9:LP:181:GLU:HB3	1.83	0.61
8:MG:191:THR:HA	8:MG:194:THR:HG22	1.83	0.61
9:ND:8:GLN:HB3	9:ND:65:LEU:HA	1.83	0.61
9:NF:279:GLN:OE1	9:NF:282:ARG:NH1	2.33	0.61
9:NH:170:VAL:HG11	9:NH:377:LEU:HD11	1.83	0.61
8:NO:186:ASN:O	8:NO:190:THR:OG1	2.19	0.61
9:OB:20:PHE:CZ	9:OB:233:MET:HB2	2.35	0.61
27:P5:158:CYS:HB2	17:P8:53:CYS:HB2	1.83	0.61
8:PI:201:ALA:HB3	8:PI:267:PHE:HA	1.83	0.61
9:PJ:224:ASP:HA	9:PJ:227:HIS:HB3	1.83	0.61
9:QJ:323:MET:HE3	9:QJ:323:MET:HA	1.82	0.61
11:R1:7:LYS:NZ	14:T5:333:GLU:OE1	2.34	0.61
11:R1:289:GLU:OE2	11:R2:39:ARG:NH1	2.33	0.61
9:RJ:50:TYR:OH	9:RJ:237:THR:OG1	2.14	0.61
9:RJ:299:MET:SD	9:RJ:299:MET:N	2.73	0.61
8:SG:317:MET:HE2	8:SG:319:TYR:CD1	2.36	0.61
8:SG:320:ARG:HE	8:SG:360:PRO:HG3	1.64	0.61
9:SH:147:MET:HE2	9:SH:151:LEU:HD21	1.82	0.61
8:SI:286:LEU:HG	8:SI:373:ARG:HH11	1.65	0.61
9:SL:375:GLN:HB3	9:SL:422:TYR:CE1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T0:25:LYS:HB3	14:T1:270:ARG:HH21	1.65	0.61
14:T0:51:TYR:C	14:T0:52:LEU:HD22	2.26	0.61
9:TB:73:MET:HE2	9:TB:90:PHE:HD2	1.66	0.61
30:U0:401:ARG:O	30:U0:401:ARG:NH1	2.24	0.61
8:UA:203:MET:H	8:UA:203:MET:HE3	1.66	0.61
8:UA:287:SER:N	8:UA:290:GLU:OE2	2.32	0.61
9:UJ:358:PRO:HG2	9:UJ:361:LEU:HB3	1.81	0.61
30:V2:392:ALA:HA	30:V2:395:MET:HE1	1.83	0.61
30:V5:268:PHE:CZ	30:V5:279:PHE:HB3	2.36	0.61
8:VA:399:TYR:O	8:VA:402:ARG:NH1	2.33	0.61
9:VB:309:ARG:H	9:VB:372:THR:HB	1.65	0.61
8:VE:107:HIS:HA	8:VE:152:LEU:HD23	1.82	0.61
8:VO:120:ASP:OD1	8:VO:123:ARG:NH2	2.33	0.61
31:W:486:VAL:HG11	31:W:515:ILE:HG13	1.83	0.61
9:WB:68:LEU:HB3	9:WB:96:GLY:HA2	1.83	0.61
31:X:257:ASP:OD2	31:X:281:ARG:NH2	2.34	0.61
33:X4:84:LYS:NZ	33:X4:89:GLN:OE1	2.34	0.61
33:X5:2:MET:N	33:X5:2:MET:SD	2.73	0.61
35:XF:69:LEU:HD11	35:XF:154:VAL:HG22	1.83	0.61
42:e:79:ILE:HB	42:e:96:TRP:HB2	1.83	0.61
1:0:98:GLN:NE2	8:JQ:364:PRO:O	2.33	0.61
9:AB:309:ARG:HG3	9:AB:426:GLN:HG3	1.83	0.61
9:AJ:162:ARG:NH2	8:AK:97:GLU:OE2	2.33	0.61
9:BL:74:ASP:O	31:Y:322:LYS:NZ	2.33	0.61
8:BM:254:GLU:HG2	9:BN:98:GLY:HA2	1.83	0.61
9:CH:180:VAL:HG13	9:CH:184:ASN:HD21	1.65	0.61
8:CK:147:SER:OG	8:CK:190:THR:OG1	2.16	0.61
9:CN:5:VAL:HG22	9:CN:62:ARG:HD2	1.81	0.61
8:CO:50:ASN:O	8:CO:64:ARG:NH1	2.34	0.61
14:D3:47:ARG:O	14:D3:47:ARG:NH1	2.30	0.61
8:DE:295:CYS:HB3	8:DE:377:MET:HE2	1.83	0.61
8:DK:286:LEU:O	8:DK:373:ARG:NH1	2.34	0.61
9:DL:204:ASN:OD1	52:DL:502:GDP:N2	2.33	0.61
9:EB:325:GLU:OE2	8:EC:221:ARG:NH1	2.33	0.61
8:EE:53:PHE:HB3	8:EE:61:HIS:HB3	1.83	0.61
8:EO:286:LEU:O	8:EO:373:ARG:NH1	2.34	0.61
9:FF:387:ALA:O	9:FF:390:ARG:NH1	2.33	0.61
8:GM:191:THR:HA	8:GM:194:THR:HG22	1.83	0.61
8:HG:191:THR:HA	8:HG:194:THR:HG22	1.82	0.61
8:IC:326:LYS:HG2	9:ID:220:PRO:HG2	1.83	0.61
9:IF:165:ASN:OD1	9:IF:198:GLU:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:II:154:MET:HA	8:II:154:MET:HE2	1.82	0.61
8:IO:194:THR:O	8:IO:266:HIS:NE2	2.33	0.61
19:J4:35:PRO:HA	19:J4:73:GLU:OE1	2.01	0.61
9:JD:326:VAL:O	9:JD:329:GLN:N	2.34	0.61
9:JD:330:MET:HA	9:JD:333:VAL:HG22	1.81	0.61
8:JI:317:MET:HE1	8:JI:377:MET:HE2	1.83	0.61
9:JJ:284:LEU:O	9:JJ:362:LYS:NZ	2.33	0.61
20:K1:14:ASP:OD1	20:K1:17:HIS:ND1	2.29	0.61
8:KC:120:ASP:OD1	8:KC:124:LYS:NZ	2.34	0.61
8:KM:439:SER:OG	9:KN:390:ARG:NH2	2.34	0.61
9:KP:198:GLU:HA	9:KP:264:HIS:HB2	1.82	0.61
8:LA:298:PRO:HG3	8:LA:308:ARG:HH22	1.65	0.61
9:LN:252:LYS:NZ	50:LO:501:GTP:O3G	2.34	0.61
8:LO:1:MET:HE3	25:O6:29:GLN:HG2	1.83	0.61
9:MJ:245:GLN:O	8:MK:11:GLN:NE2	2.34	0.61
9:ML:257:MET:SD	9:ML:312:THR:OG1	2.58	0.61
8:NC:191:THR:HG21	8:NC:425:LEU:HD22	1.83	0.61
8:NI:116:ASP:N	8:NI:116:ASP:OD1	2.34	0.61
9:NP:5:VAL:HG22	9:NP:62:ARG:HD2	1.82	0.61
8:OM:108:TYR:HA	8:OM:112:LYS:HE3	1.83	0.61
8:OO:333:ALA:HA	8:OO:336:LYS:HE3	1.81	0.61
9:PL:164:MET:HE1	9:PL:196:THR:HA	1.83	0.61
9:PN:34:GLY:HA3	9:PN:58:LYS:HE2	1.82	0.61
8:PO:107:HIS:HA	8:PO:152:LEU:HD23	1.83	0.61
9:QH:130:LEU:O	9:QH:162:ARG:NH1	2.33	0.61
8:RE:339:ARG:NH2	8:RE:342:GLN:HG2	2.14	0.61
8:RM:213:CYS:SG	8:RM:219:ILE:HB	2.40	0.61
12:S2:74:ARG:HD2	12:S3:227:LEU:HD13	1.82	0.61
12:S4:312:GLN:HG2	12:S4:315:ARG:HH21	1.66	0.61
8:SE:219:ILE:HB	8:SE:222:PRO:HG3	1.82	0.61
9:SN:383:GLU:OE1	9:SN:384:GLN:NE2	2.33	0.61
14:T2:55:GLU:O	14:T2:59:ASN:ND2	2.31	0.61
9:TB:317:PHE:HB3	9:TB:321:MET:HE2	1.82	0.61
9:TH:70:PRO:HA	9:TH:73:MET:HE3	1.82	0.61
9:TH:173:PRO:HG3	9:TH:380:ARG:HD2	1.83	0.61
9:TJ:398:TYR:HB3	9:TJ:403:MET:SD	2.41	0.61
9:UB:358:PRO:HG2	9:UB:361:LEU:HB3	1.82	0.61
9:UD:313:VAL:HG13	9:UD:367:PHE:HE1	1.65	0.61
8:UM:50:ASN:O	8:UM:64:ARG:NH1	2.34	0.61
9:VL:1:MET:N	9:VL:128:ASP:OD1	2.34	0.61
30:W0:309:ASN:OD1	30:W0:313:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WF:285:THR:HB	9:WF:287:PRO:HD2	1.81	0.61
37:YC:87:LEU:HB2	37:YC:118:MET:HE1	1.83	0.61
39:a:336:ALA:O	39:a:340:VAL:HG23	2.00	0.61
46:i4:1423:ALA:HB3	46:i4:1455:ARG:HH22	1.66	0.61
2:1:449:ALA:HA	8:IC:221:ARG:HB3	1.83	0.60
7:A3:275:ARG:NH1	12:C3:471:GLU:OE1	2.34	0.60
8:AA:285:GLN:HA	8:MA:57:GLY:H	1.66	0.60
9:AB:1:MET:HG2	9:AB:48:ASN:HD21	1.66	0.60
8:AG:267:PHE:CD1	8:AG:388:TRP:HH2	2.19	0.60
8:AI:377:MET:HE2	8:AI:379:SER:HB3	1.82	0.60
12:C4:295:SER:N	12:C5:413:ARG:HH22	1.98	0.60
9:CL:221:THR:HG23	9:CL:223:GLY:H	1.65	0.60
9:CN:1:MET:N	9:CN:128:ASP:OD1	2.32	0.60
9:CP:273:LEU:O	9:CP:292:GLN:NE2	2.34	0.60
8:DM:107:HIS:HA	8:DM:152:LEU:HD23	1.83	0.60
9:EF:31:ASP:OD1	9:EF:35:THR:N	2.33	0.60
8:FI:50:ASN:O	8:FI:64:ARG:NH1	2.34	0.60
9:GD:236:VAL:HG13	9:GD:237:THR:HG23	1.83	0.60
9:GD:324:LYS:NZ	8:GE:210:TYR:O	2.34	0.60
9:GD:336:LYS:HG2	36:Y2:237:THR:HG22	1.83	0.60
9:GF:156:ARG:NH1	9:GF:197:ASP:OD1	2.31	0.60
9:GN:207:LEU:HD21	9:GN:300:MET:HE2	1.81	0.60
8:HI:182:VAL:HG12	8:HI:186:ASN:HD21	1.66	0.60
9:HJ:1:MET:HE3	9:HJ:2:ARG:HG3	1.83	0.60
9:HJ:344:TRP:CZ2	8:HK:403:ALA:HB2	2.36	0.60
9:HL:159:TYR:HB3	9:HL:162:ARG:HG2	1.82	0.60
8:HM:168:GLU:O	8:HM:201:ALA:HA	2.01	0.60
8:IK:170:ALA:O	8:IK:203:MET:HA	2.01	0.60
19:J3:106:PHE:CE1	9:NH:58:LYS:HG3	2.36	0.60
9:JB:50:TYR:HE2	9:JB:241:ARG:HD2	1.66	0.60
8:JI:102:ASN:HD22	8:JI:105:ARG:HG3	1.65	0.60
8:JM:335:ILE:HA	8:JM:338:LYS:HD2	1.83	0.60
8:JO:151:SER:HA	8:JO:193:THR:HG21	1.84	0.60
9:KB:130:LEU:O	9:KB:162:ARG:NH1	2.34	0.60
9:KB:186:THR:HB	9:KB:415:MET:HE1	1.82	0.60
9:KB:245:GLN:O	8:KC:11:GLN:NE2	2.33	0.60
9:KL:358:PRO:HG2	9:KL:361:LEU:HB3	1.82	0.60
9:KP:45:GLU:N	9:KP:45:GLU:OE2	2.33	0.60
9:LN:257:MET:SD	9:LN:312:THR:OG1	2.51	0.60
8:MK:320:ARG:HD3	8:MK:360:PRO:HG3	1.83	0.60
8:NG:195:LEU:HD11	8:NG:264:ARG:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ON:20:PHE:CE2	9:ON:233:MET:HE2	2.36	0.60
9:ON:67:ASP:HA	9:ON:143:THR:HG21	1.83	0.60
8:OO:53:PHE:HB3	8:OO:61:HIS:HB3	1.83	0.60
9:PD:1:MET:HE2	8:PE:72:PRO:HG3	1.82	0.60
9:PD:330:MET:HG3	9:PD:349:VAL:HG11	1.82	0.60
8:RK:212:ILE:O	8:RK:216:ASN:ND2	2.34	0.60
9:RP:54:ALA:HA	9:SN:283:ALA:HB2	1.82	0.60
12:S3:402:GLU:HA	12:S3:405:ARG:HH21	1.65	0.60
8:SG:27:GLU:OE1	8:SG:243:ARG:NH2	2.33	0.60
8:SI:50:ASN:O	8:SI:64:ARG:NH1	2.33	0.60
9:SN:136:THR:HG22	9:SN:167:PHE:HB2	1.82	0.60
25:T:187:ASP:HB3	25:T:190:THR:HG23	1.83	0.60
14:T5:340:LYS:HA	14:T5:343:ILE:HD12	1.84	0.60
9:TB:263:LEU:HD13	9:TB:370:ASN:ND2	2.16	0.60
9:TH:207:LEU:HD22	9:TH:228:LEU:HD12	1.83	0.60
9:TJ:114:ASP:OD1	9:TJ:114:ASP:N	2.33	0.60
9:UF:211:CYS:HA	9:UF:215:LEU:HB2	1.82	0.60
9:UF:280:GLN:OE1	9:UF:280:GLN:N	2.25	0.60
8:VA:3:GLU:H	8:VA:133:GLN:HG2	1.65	0.60
8:VC:121:ARG:HA	8:VC:124:LYS:HE2	1.83	0.60
9:VL:173:PRO:HG3	9:VL:380:ARG:HG2	1.83	0.60
30:W0:159:GLU:CG	30:W0:304:ILE:HG12	2.25	0.60
8:WA:64:ARG:NH1	8:WA:129:CYS:SG	2.74	0.60
9:WL:318:ARG:HD3	9:WL:358:PRO:HD3	1.83	0.60
8:WM:320:ARG:HD3	8:WM:360:PRO:HG3	1.82	0.60
9:WN:257:MET:HE2	9:WN:314:ALA:HB2	1.83	0.60
34:X6:186:ILE:HD12	34:X6:187:PRO:HD2	1.81	0.60
35:XG:102:ARG:HH11	35:XG:118:ILE:HG12	1.65	0.60
40:a3:68:PRO:O	40:a3:70:CYS:N	2.34	0.60
45:i1:72:LEU:HD23	45:i1:73:LYS:HG2	1.82	0.60
4:6:193:ARG:HG3	30:V7:271:ARG:HH21	1.65	0.60
7:A2:128:VAL:HG12	7:A3:11:PHE:HB2	1.83	0.60
7:A2:380:GLU:OE1	12:C2:472:LYS:NZ	2.31	0.60
8:AC:254:GLU:OE1	9:AD:99:ASN:ND2	2.31	0.60
9:AD:45:GLU:HG2	9:AD:46:ARG:HG3	1.83	0.60
8:AE:414:GLU:HG3	8:AE:416:GLY:H	1.65	0.60
8:AK:284:GLU:HG2	8:MK:88:HIS:HE2	1.67	0.60
9:AP:245:GLN:NE2	9:AP:323:MET:SD	2.74	0.60
9:BB:19:LYS:NZ	9:BB:223:GLY:O	2.34	0.60
12:C3:199:LEU:HG	12:C3:219:LEU:HD13	1.83	0.60
12:C4:177:ILE:HG13	12:C4:322:ARG:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C6:52:PRO:HB2	12:C6:54:THR:HG23	1.83	0.60
8:CO:2:ARG:HH21	8:CO:133:GLN:HG2	1.66	0.60
14:D2:441:LEU:HD22	14:D2:447:GLN:HE22	1.66	0.60
8:DG:50:ASN:O	8:DG:64:ARG:NH1	2.33	0.60
8:DG:135:PHE:HD2	8:DG:166:LYS:HG2	1.66	0.60
8:DI:34:GLY:HA3	8:DI:60:LYS:HE2	1.83	0.60
8:DI:60:LYS:NZ	8:DI:61:HIS:O	2.34	0.60
8:DM:85:GLN:NE2	17:M:59:MET:SD	2.70	0.60
8:DQ:292:THR:HG21	8:DQ:331:ALA:HB1	1.82	0.60
8:DQ:377:MET:HE3	8:DQ:378:LEU:H	1.66	0.60
8:EA:339:ARG:NH2	8:EA:342:GLN:HG2	2.15	0.60
9:EB:8:GLN:HE21	9:EB:14:ASN:HA	1.65	0.60
9:EJ:323:MET:SD	8:EK:224:TYR:N	2.74	0.60
9:EN:284:LEU:HD21	9:EN:363:MET:HB2	1.83	0.60
9:FD:73:MET:HG2	9:FD:92:PHE:CZ	2.37	0.60
9:GD:358:PRO:HG2	9:GD:361:LEU:HB3	1.81	0.60
8:HA:387:ALA:HA	8:HA:390:ARG:HE	1.65	0.60
8:HE:311:LYS:H	8:HE:382:THR:HG22	1.66	0.60
9:HH:230:SER:HA	9:HH:233:MET:HE3	1.83	0.60
9:IP:215:LEU:HD21	9:IP:273:LEU:HB3	1.82	0.60
9:JB:274:THR:HG21	9:JB:282:ARG:HE	1.65	0.60
8:JK:255:PHE:O	8:JK:259:LEU:HB2	2.01	0.60
9:JN:86:ARG:HH22	9:KL:282:ARG:HD3	1.66	0.60
8:JO:139:HIS:O	8:JO:170:ALA:HA	2.01	0.60
9:KB:270:PHE:CE2	9:KB:272:PRO:HD2	2.36	0.60
8:KE:14:VAL:HG13	8:KE:67:PHE:HD2	1.65	0.60
9:LJ:257:MET:HE1	9:LJ:370:ASN:CB	2.32	0.60
8:MA:324:VAL:HG12	8:MA:326:LYS:H	1.64	0.60
9:MF:150:LEU:O	9:MF:154:LYS:NZ	2.33	0.60
9:MH:346:PRO:HD2	8:MI:398:MET:HE2	1.83	0.60
9:MJ:372:THR:HG21	9:MJ:426:GLN:HB2	1.81	0.60
8:MK:63:PRO:O	8:MK:91:GLN:NE2	2.34	0.60
9:MN:8:GLN:HE21	9:MN:14:ASN:HA	1.66	0.60
9:ND:377:LEU:HA	9:ND:380:ARG:HE	1.66	0.60
9:NF:346:PRO:HD3	8:NG:397:LEU:HD11	1.81	0.60
8:NK:194:THR:O	8:NK:198:SER:OG	2.19	0.60
9:NN:217:LEU:HG	9:NN:220:PRO:HD3	1.82	0.60
9:NN:347:ASN:ND2	8:NO:176:GLN:O	2.33	0.60
24:O2:158:LYS:NZ	30:W5:45:TYR:HB2	2.16	0.60
8:OC:9:VAL:HG11	8:OC:150:ALA:HB2	1.81	0.60
9:OF:87:PRO:HD3	9:PF:281:TYR:CE1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OF:323:MET:N	9:OF:323:MET:SD	2.74	0.60
8:OG:51:THR:HG21	8:OG:243:ARG:HG2	1.82	0.60
8:OG:239:THR:OG1	8:OG:243:ARG:NH1	2.34	0.60
9:OH:296:ALA:HB3	36:Y4:91:GLY:HA2	1.84	0.60
8:OK:186:ASN:O	8:OK:190:THR:OG1	2.18	0.60
9:PF:249:ASP:H	9:PF:252:LYS:HB2	1.64	0.60
9:QJ:376:GLU:OE1	9:QJ:380:ARG:NH1	2.34	0.60
9:QL:48:ASN:O	9:QL:62:ARG:NH2	2.35	0.60
11:R0:341:GLU:HG2	11:R1:56:ASP:HB3	1.82	0.60
8:RI:321:GLY:HA3	8:RI:373:ARG:HA	1.84	0.60
12:S3:134:GLN:NE2	12:S4:426:GLU:OE2	2.34	0.60
12:S6:144:GLN:NE2	12:S6:148:GLU:OE2	2.34	0.60
8:SA:88:HIS:CE1	8:SA:90:GLU:HB3	2.36	0.60
9:SB:337:ASN:HB3	9:SB:340:TYR:HD2	1.66	0.60
8:SE:346:TRP:HD1	9:SF:387:ALA:O	1.84	0.60
8:SG:262:TYR:OH	9:SH:391:ARG:O	2.18	0.60
14:T0:71:ARG:HH22	14:T1:324:LYS:HB3	1.66	0.60
9:TB:299:MET:N	9:TB:299:MET:SD	2.74	0.60
9:TD:32:PRO:HD2	47:o:132:ILE:HD12	1.82	0.60
9:TJ:74:ASP:OD1	9:TJ:74:ASP:N	2.32	0.60
9:TN:8:GLN:HB3	9:TN:65:LEU:HA	1.81	0.60
30:U2:445:VAL:HG13	30:U2:448:LYS:HD3	1.82	0.60
30:U5:305:ARG:HA	30:U5:308:GLN:HG2	1.84	0.60
9:UH:48:ASN:O	9:UH:62:ARG:NH2	2.33	0.60
30:V5:239:GLN:OE1	30:V5:313:ASN:ND2	2.34	0.60
9:VF:48:ASN:O	9:VF:62:ARG:NH2	2.33	0.60
9:VF:345:ILE:HA	8:VG:398:MET:HE1	1.83	0.60
8:VK:41:THR:HG23	42:g:109:LEU:HD11	1.82	0.60
8:VO:285:GLN:HE22	8:VO:287:SER:HB3	1.65	0.60
9:WL:156:ARG:CD	9:WL:164:MET:HE1	2.25	0.60
8:WO:50:ASN:O	8:WO:64:ARG:NH1	2.34	0.60
31:Z:646:ASP:HA	31:Z:653:LEU:HD21	1.83	0.60
39:d:515:GLU:HA	39:d:518:LYS:HD3	1.83	0.60
42:f:487:ILE:HD12	42:f:497:GLN:HB3	1.82	0.60
42:f:587:SER:OG	42:f:608:ASP:OD1	2.18	0.60
42:g:525:LYS:HD3	42:g:541:GLU:HA	1.83	0.60
42:g:561:VAL:HG11	42:g:602:ILE:HD13	1.83	0.60
1:0:105:LEU:HD11	4:j1:39:LEU:HD12	1.83	0.60
7:A3:76:GLU:OE2	11:B3:266:ARG:NH1	2.34	0.60
9:AJ:45:GLU:OE1	17:L:214:GLN:NE2	2.34	0.60
8:BE:119:LEU:HA	8:BE:122:ILE:HG22	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BH:46:ARG:NH2	8:BI:76:ASP:OD2	2.29	0.60
8:BO:437:VAL:O	9:BP:391:ARG:NH2	2.33	0.60
8:CC:89:PRO:HD2	8:DC:283:HIS:CE1	2.36	0.60
9:CD:216:LYS:HE3	31:W:303:VAL:HG11	1.82	0.60
8:CO:220:GLU:HG2	8:CO:221:ARG:HG3	1.83	0.60
9:ED:236:VAL:HG13	9:ED:237:THR:HG23	1.82	0.60
9:EH:1:MET:N	9:EH:128:ASP:OD2	2.34	0.60
8:FK:88:HIS:HD2	8:GK:283:HIS:HB2	1.66	0.60
9:GB:178:THR:HB	9:GB:181:GLU:HB2	1.82	0.60
9:HJ:121:ARG:NH2	36:Y1:123:SER:OG	2.33	0.60
9:HJ:203:ASP:OD1	9:HJ:205:GLU:N	2.24	0.60
8:HO:53:PHE:O	8:HO:64:ARG:NH1	2.34	0.60
8:IM:311:LYS:HD3	8:IM:342:GLN:HG3	1.82	0.60
9:JB:372:THR:HA	9:JB:422:TYR:HE1	1.66	0.60
9:JB:388:MET:H	9:JB:388:MET:HE3	1.65	0.60
9:JJ:58:LYS:NZ	9:KH:280:GLN:O	2.29	0.60
8:JK:188:ILE:HG22	8:JK:189:LEU:HD23	1.83	0.60
9:JL:299:MET:HE3	9:JL:300:MET:H	1.66	0.60
8:KE:153:LEU:O	8:KE:157:LEU:HB2	2.00	0.60
9:KL:173:PRO:HG3	9:KL:380:ARG:HE	1.67	0.60
9:KP:48:ASN:O	9:KP:62:ARG:NH2	2.34	0.60
8:LK:271:THR:HB	8:LK:377:MET:HB3	1.83	0.60
8:LM:53:PHE:O	8:LM:64:ARG:NH1	2.34	0.60
8:MG:157:LEU:HD22	8:MG:166:LYS:HD3	1.83	0.60
17:N:226:PRO:HD2	17:N:244:MET:HE1	1.82	0.60
15:N2:116:ALA:HB3	15:N2:247:MET:HB2	1.83	0.60
8:NA:2:ARG:HH22	8:NA:48:SER:HA	1.66	0.60
9:ND:88:ASP:OD2	9:OD:282:ARG:NH2	2.33	0.60
9:ND:121:ARG:NH1	9:ND:158:GLU:HG2	2.14	0.60
9:NH:167:PHE:CE2	9:NH:233:MET:HB3	2.36	0.60
9:NJ:156:ARG:O	9:NJ:156:ARG:NH1	2.31	0.60
9:OB:314:ALA:HB3	9:OB:368:ILE:HB	1.81	0.60
8:OC:316:CYS:HB3	8:OC:378:LEU:HB2	1.83	0.60
8:OE:70:LEU:HB3	8:OE:98:ASP:HA	1.83	0.60
9:ON:119:VAL:HA	9:ON:122:LYS:HD3	1.82	0.60
9:PB:309:ARG:NH1	9:PB:341:PHE:O	2.33	0.60
9:PL:7:LEU:N	9:PL:134:GLN:O	2.35	0.60
28:Q2:34:LEU:HD11	12:S6:289:ARG:NH1	2.14	0.60
8:QC:317:MET:HB2	8:QC:353:VAL:HA	1.83	0.60
9:QH:8:GLN:HE21	9:QH:14:ASN:HA	1.66	0.60
12:S4:403:ARG:O	12:S4:406:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SF:309:ARG:H	9:SF:372:THR:HB	1.66	0.60
9:SJ:180:VAL:HG13	9:SJ:184:ASN:HD21	1.66	0.60
8:SK:320:ARG:HE	8:SK:360:PRO:HG3	1.64	0.60
9:SN:262:ARG:HH21	9:SN:418:LEU:HD13	1.65	0.60
9:TL:20:PHE:CZ	9:TL:233:MET:HE2	2.35	0.60
30:U0:268:PHE:O	30:U0:271:ARG:NH2	2.33	0.60
30:U9:356:LYS:HE3	30:V4:333:TRP:HZ3	1.64	0.60
8:UA:239:THR:OG1	8:UA:243:ARG:NH1	2.34	0.60
8:UI:70:LEU:HD13	8:UI:95:GLY:HA3	1.82	0.60
9:UL:228:LEU:HD21	9:UL:300:MET:HG2	1.83	0.60
30:V0:411:VAL:HG22	30:V1:145:ARG:HH21	1.66	0.60
8:VE:21:TRP:HA	8:VE:24:TYR:CD2	2.35	0.60
9:VN:314:ALA:HB3	9:VN:368:ILE:HG22	1.82	0.60
30:W2:301:ASN:HB3	30:W2:305:ARG:HH12	1.66	0.60
8:WA:3:GLU:H	8:WA:133:GLN:HG2	1.65	0.60
9:WF:67:ASP:O	9:WF:92:PHE:HA	2.01	0.60
8:WO:116:ASP:N	8:WO:116:ASP:OD1	2.34	0.60
34:X7:180:PRO:HD3	34:X7:196:TRP:CH2	2.36	0.60
35:XC:60:THR:HG22	35:XC:155:GLN:HG3	1.82	0.60
35:XG:33:HIS:CE1	35:XG:50:GLU:HB2	2.35	0.60
42:f:546:GLY:HA3	42:f:565:HIS:HB2	1.81	0.60
44:h2:87:SER:OG	44:h2:95:ARG:NH1	2.34	0.60
7:A2:26:ARG:NH1	31:W:64:ASP:OD1	2.33	0.60
9:AD:372:THR:HA	9:AD:422:TYR:CE1	2.34	0.60
9:AL:186:THR:HG23	9:AL:415:MET:HE2	1.82	0.60
9:BB:173:PRO:HG2	9:BB:174:LYS:HD3	1.83	0.60
9:BH:245:GLN:HE21	8:BI:224:TYR:HB2	1.66	0.60
8:BI:147:SER:HG	8:BI:190:THR:HG1	1.50	0.60
8:CG:2:ARG:HB2	8:CG:242:LEU:HD23	1.83	0.60
8:CG:27:GLU:HG2	8:CG:361:THR:HG21	1.84	0.60
8:CQ:324:VAL:HG12	8:CQ:326:LYS:H	1.67	0.60
8:DC:16:ILE:HD11	8:DC:231:ILE:HB	1.82	0.60
8:DC:297:GLU:O	8:DC:301:GLN:NE2	2.31	0.60
9:DN:156:ARG:HG3	9:DN:195:ASN:HB3	1.83	0.60
8:EG:326:LYS:HE3	9:EH:220:PRO:HD2	1.83	0.60
9:EL:313:VAL:HB	9:EL:349:VAL:HG22	1.82	0.60
9:EL:406:MET:N	9:EL:406:MET:SD	2.75	0.60
9:FF:125:GLU:OE1	9:GF:336:LYS:NZ	2.34	0.60
8:FM:36:MET:SD	8:FM:61:HIS:NE2	2.75	0.60
9:FN:125:GLU:OE1	9:GN:336:LYS:NZ	2.34	0.60
9:GB:5:VAL:HG22	9:GB:62:ARG:HD2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GD:1:MET:SD	9:GD:2:ARG:N	2.75	0.60
9:GJ:294:PHE:HB3	36:Y2:124:ILE:HD13	1.81	0.60
8:GO:157:LEU:HD22	8:GO:166:LYS:HE2	1.83	0.60
17:H:214:GLN:NE2	17:H:224:PHE:O	2.34	0.60
8:HE:235:VAL:HA	8:HE:238:ILE:HD12	1.84	0.60
9:HJ:208:TYR:HB3	9:HJ:212:PHE:CZ	2.36	0.60
8:IA:264:ARG:NH1	8:IA:431:ASP:OD2	2.35	0.60
8:IG:349:THR:O	9:IH:179:VAL:HG12	2.01	0.60
9:IL:139:LEU:O	9:IL:184:ASN:ND2	2.35	0.60
9:IN:180:VAL:HG23	9:IN:184:ASN:HD21	1.66	0.60
9:JB:165:ASN:HB2	9:JB:200:TYR:HE2	1.66	0.60
9:JD:184:ASN:OD1	9:JD:398:TYR:OH	2.19	0.60
9:JJ:10:GLY:O	9:JJ:14:ASN:ND2	2.33	0.60
9:JJ:271:ALA:HB3	9:JJ:272:PRO:HD3	1.83	0.60
8:LE:56:THR:OG1	8:LE:57:GLY:N	2.33	0.60
9:LL:77:ARG:NH1	25:O5:41:ARG:O	2.33	0.60
9:LP:198:GLU:HA	9:LP:264:HIS:HB2	1.83	0.60
8:ME:324:VAL:HG12	8:ME:326:LYS:H	1.67	0.60
8:NC:2:ARG:HH22	9:ND:70:PRO:HG2	1.67	0.60
8:NC:70:LEU:HB3	8:NC:98:ASP:HA	1.84	0.60
9:NF:121:ARG:NH1	36:Y4:125:SER:OG	2.34	0.60
8:NK:191:THR:HG21	8:NK:425:LEU:HD13	1.83	0.60
9:NL:54:ALA:HA	9:OL:283:ALA:HB2	1.82	0.60
9:ON:297:LYS:HA	36:Y5:205:ARG:HD2	1.84	0.60
8:PC:107:HIS:HA	8:PC:152:LEU:HD23	1.84	0.60
9:PF:73:MET:SD	9:PF:90:PHE:HD2	2.24	0.60
9:QD:54:ALA:HA	9:RD:283:ALA:HB2	1.83	0.60
9:QL:290:THR:HG21	9:QL:329:GLN:HB3	1.82	0.60
8:RI:320:ARG:HD3	8:RI:360:PRO:HG3	1.82	0.60
8:RM:175:PRO:HD2	8:RM:207:GLU:OE1	2.01	0.60
9:RN:273:LEU:O	9:RN:292:GLN:NE2	2.34	0.60
9:RP:262:ARG:HH21	9:RP:418:LEU:HD13	1.65	0.60
12:S5:279:GLU:O	14:T3:15:GLN:NE2	2.34	0.60
12:S5:293:THR:HA	12:S6:411:LEU:HD22	1.83	0.60
12:S7:483:THR:OG1	14:T3:403:ARG:NH1	2.34	0.60
8:SE:7:ILE:HD13	8:SE:137:ILE:HG13	1.82	0.60
8:SE:254:GLU:OE1	9:SF:99:ASN:ND2	2.33	0.60
8:SI:317:MET:HE3	8:SI:318:LEU:N	2.17	0.60
14:T3:435:ASN:ND2	30:U2:125:GLN:OE1	2.34	0.60
14:T4:248:GLU:HG3	14:T5:378:LEU:HD21	1.81	0.60
14:T5:370:ARG:HE	14:T5:375:PHE:HE1	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TB:1:MET:HA	8:TC:96:LYS:HD2	1.82	0.60
9:TL:8:GLN:HB3	9:TL:65:LEU:HA	1.83	0.60
9:UF:83:GLN:OE1	9:UF:83:GLN:N	2.29	0.60
8:UG:399:TYR:O	8:UG:402:ARG:NH1	2.31	0.60
9:UJ:94:GLN:N	9:UJ:94:GLN:OE1	2.34	0.60
30:V0:205:ASP:OD2	30:V0:461:THR:OG1	2.20	0.60
9:VB:293:MET:H	9:VB:293:MET:HE3	1.66	0.60
9:VJ:362:LYS:HD2	9:VJ:363:MET:HB2	1.82	0.60
8:WA:172:TYR:HB2	8:WA:203:MET:HB2	1.83	0.60
9:WB:252:LYS:NZ	50:WC:501:GTP:O3G	2.34	0.60
8:WK:346:TRP:HB3	9:WL:390:ARG:HH12	1.66	0.60
37:YE:141:LEU:HB3	37:YE:180:ILE:HG21	1.82	0.60
39:a:338:GLN:HA	39:a:341:MET:HE3	1.84	0.60
42:e:517:ILE:HG13	42:e:529:TRP:HB2	1.83	0.60
46:i2:1344:LEU:O	46:i2:1348:LYS:N	2.31	0.60
47:p:158:VAL:O	47:p:162:ARG:HG2	2.00	0.60
3:3:359:GLU:HA	3:3:362:ARG:HD2	1.82	0.60
6:A:39:LEU:O	9:JF:77:ARG:NH2	2.35	0.60
7:A2:275:ARG:NH2	7:A2:276:ASN:OD1	2.35	0.60
8:AI:254:GLU:OE2	9:AJ:99:ASN:ND2	2.35	0.60
8:AK:226:ASN:ND2	8:AK:367:ASP:OD2	2.34	0.60
8:AK:254:GLU:OE2	9:AL:99:ASN:ND2	2.33	0.60
10:B:45:ASN:OD1	9:KH:218:THR:OG1	2.18	0.60
11:B3:321:ARG:O	11:B3:324:ARG:NH1	2.34	0.60
8:BE:2:ARG:NH1	9:BF:69:GLU:OE2	2.34	0.60
8:CM:47:ASP:OD1	8:CM:50:ASN:HB2	2.00	0.60
9:DD:39:ASP:HA	17:I:52:PRO:HD2	1.84	0.60
9:FL:60:VAL:HG11	9:GL:281:TYR:HB3	1.82	0.60
9:FL:156:ARG:NH1	9:FL:197:ASP:OD1	2.33	0.60
8:GA:172:TYR:HH	8:GA:388:TRP:CD1	2.19	0.60
9:GF:1:MET:SD	9:GF:2:ARG:N	2.75	0.60
8:GK:347:CYS:HA	9:GL:388:MET:HE1	1.82	0.60
8:HA:311:LYS:HD2	8:HA:436:GLY:HA2	1.83	0.60
9:HF:267:MET:HE1	9:HF:373:ALA:HB3	1.83	0.60
9:HL:131:GLN:HB3	9:HL:163:ILE:HD11	1.83	0.60
8:IC:169:PHE:HE2	8:IC:235:VAL:HG22	1.67	0.60
9:IP:8:GLN:HB3	9:IP:65:LEU:HA	1.82	0.60
9:JB:309:ARG:NH2	9:JB:339:SER:O	2.35	0.60
8:JE:25:CYS:HG	8:JE:83:TYR:HH	1.30	0.60
8:KA:51:THR:HG21	8:KA:243:ARG:HG2	1.83	0.60
8:KK:90:GLU:N	8:KK:90:GLU:OE1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LF:245:GLN:O	8:LG:11:GLN:NE2	2.35	0.60
9:LH:317:PHE:HB3	9:LH:321:MET:HE1	1.83	0.60
8:NM:348:PRO:HD2	9:NN:388:MET:HE3	1.82	0.60
24:O3:182:GLU:OE1	24:O3:182:GLU:N	2.35	0.60
8:OI:358:GLN:NE2	8:OI:359:PRO:O	2.33	0.60
9:OL:257:MET:HE2	9:OL:314:ALA:HB2	1.83	0.60
9:OL:293:MET:HE3	9:OL:367:PHE:HB2	1.83	0.60
9:OL:313:VAL:HB	9:OL:349:VAL:HG22	1.84	0.60
9:ON:178:THR:HB	9:ON:181:GLU:HG2	1.82	0.60
9:OP:388:MET:N	9:OP:388:MET:SD	2.75	0.60
8:PC:132:LEU:HD21	8:PC:135:PHE:HE1	1.65	0.60
8:PG:437:VAL:O	9:PH:391:ARG:NH2	2.29	0.60
9:PH:8:GLN:HB3	9:PH:65:LEU:HA	1.83	0.60
9:QL:118:ASP:OD1	9:QL:121:ARG:NH2	2.34	0.60
9:QN:427:ASP:OD1	9:QN:427:ASP:N	2.35	0.60
9:RD:130:LEU:O	9:RD:162:ARG:NH1	2.34	0.60
8:RE:320:ARG:HD3	8:RE:360:PRO:HG3	1.83	0.60
9:RJ:406:MET:N	9:RJ:406:MET:SD	2.75	0.60
9:RN:249:ASP:H	9:RN:252:LYS:HB2	1.65	0.60
9:RP:48:ASN:O	9:RP:62:ARG:NH2	2.35	0.60
9:SH:266:PHE:CZ	9:SH:370:ASN:HB2	2.36	0.60
8:SM:6:SER:HA	8:SM:136:LEU:HD12	1.83	0.60
9:TJ:198:GLU:HA	9:TJ:264:HIS:HB2	1.83	0.60
30:U3:78:ILE:O	30:U3:83:ARG:NH2	2.32	0.60
9:UN:337:ASN:HB3	9:UN:340:TYR:HD2	1.66	0.60
30:V8:190:VAL:HG13	30:V8:472:MET:HE2	1.82	0.60
30:V8:215:LEU:HA	30:V8:218:GLU:HG3	1.83	0.60
9:VN:296:ALA:HA	9:VN:299:MET:HE3	1.84	0.60
8:WI:36:MET:HE3	8:WI:37:PRO:HD2	1.84	0.60
35:XB:33:HIS:HE1	35:XB:50:GLU:HB2	1.67	0.60
41:b2:329:SER:OG	41:b2:468:ARG:NH1	2.32	0.60
42:f:288:GLN:NE2	42:f:289:LEU:O	2.33	0.60
49:y:66:PRO:HB2	49:y:68:ARG:HE	1.64	0.60
9:AF:111:GLU:N	9:AF:111:GLU:OE1	2.34	0.60
8:AK:316:CYS:HB3	8:AK:378:LEU:HB2	1.81	0.60
9:BL:289:LEU:HD11	9:BL:363:MET:HE3	1.83	0.60
14:D4:78:ARG:O	14:D4:81:SER:OG	2.19	0.60
8:DC:52:PHE:HE1	8:DC:243:ARG:HD3	1.65	0.60
8:EC:254:GLU:HG2	9:ED:98:GLY:HA2	1.82	0.60
9:ED:34:GLY:HA3	9:ED:58:LYS:HE3	1.84	0.60
8:EE:88:HIS:CE1	8:EE:90:GLU:HB3	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EI:345:ASP:OD2	9:EJ:390:ARG:NH2	2.35	0.60
8:FA:320:ARG:HD3	8:FA:360:PRO:HG3	1.82	0.60
8:FG:188:ILE:O	8:FG:191:THR:OG1	2.18	0.60
8:FO:298:PRO:HA	8:FO:301:GLN:HG2	1.83	0.60
9:GH:210:ILE:O	9:GH:214:THR:OG1	2.19	0.60
8:GM:102:ASN:OD1	8:GM:105:ARG:N	2.22	0.60
8:HA:311:LYS:H	8:HA:382:THR:HG22	1.67	0.60
9:HB:58:LYS:NZ	9:IB:280:GLN:OE1	2.33	0.60
8:HC:292:THR:HG23	8:HC:317:MET:HE1	1.84	0.60
8:HE:123:ARG:HH12	36:Y1:215:LYS:HD3	1.65	0.60
9:HJ:358:PRO:HG2	9:HJ:361:LEU:HB3	1.81	0.60
8:HM:229:ARG:NH2	8:HM:364:PRO:O	2.34	0.60
9:IJ:358:PRO:HG2	9:IJ:361:LEU:HB3	1.84	0.60
8:IM:108:TYR:HE2	8:IM:413:MET:HG3	1.66	0.60
8:IM:327:ASP:N	8:IM:327:ASP:OD1	2.29	0.60
8:JC:31:GLN:NE2	8:JC:35:GLN:OE1	2.34	0.60
8:JC:31:GLN:HE21	8:JC:33:ASP:HB3	1.66	0.60
8:JI:294:ALA:O	8:JI:300:ASN:ND2	2.34	0.60
9:JL:73:MET:HE3	9:JL:92:PHE:HB3	1.83	0.60
9:JN:74:ASP:HB3	9:JN:77:ARG:HH21	1.66	0.60
9:KN:73:MET:N	9:KN:73:MET:SD	2.74	0.60
17:L:305:ARG:NH1	17:P8:156:ALA:O	2.35	0.60
8:LA:264:ARG:NH1	8:LA:431:ASP:OD2	2.34	0.60
8:LA:437:VAL:O	9:LB:391:ARG:NH2	2.34	0.60
8:LC:156:ARG:NH1	45:l:67:THR:OG1	2.34	0.60
8:LM:322:ASP:OD2	8:LM:373:ARG:NH2	2.35	0.60
22:M1:162:TRP:CD1	27:P3:68:TYR:HH	2.19	0.60
22:M4:126:ASP:OD1	22:M4:128:THR:N	2.34	0.60
9:MD:5:VAL:HG22	9:MD:62:ARG:HD2	1.83	0.60
8:MG:320:ARG:HD3	8:MG:360:PRO:HG3	1.83	0.60
8:MO:88:HIS:HB3	8:MO:91:GLN:HG3	1.84	0.60
9:MP:25:SER:HA	9:MP:30:ILE:HD12	1.83	0.60
9:MP:62:ARG:NH1	9:MP:127:CYS:SG	2.74	0.60
8:NG:26:LEU:HD12	8:NG:363:VAL:HG12	1.83	0.60
9:NH:68:LEU:HB3	9:NH:96:GLY:HA2	1.81	0.60
8:NK:26:LEU:HD12	8:NK:363:VAL:HG23	1.84	0.60
9:NN:117:LEU:HB3	9:NN:121:ARG:HH21	1.65	0.60
24:O2:80:LEU:HD12	24:O2:115:LEU:HD21	1.82	0.60
25:O5:306:LYS:HD3	25:O5:306:LYS:N	2.16	0.60
9:OB:51:TYR:O	9:OB:62:ARG:NH2	2.35	0.60
9:OD:63:ALA:HB3	9:OD:85:PHE:HE1	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OE:102:ASN:HB3	8:OE:105:ARG:HB2	1.83	0.60
8:PC:147:SER:OG	8:PC:190:THR:OG1	2.17	0.60
9:PH:304:ASP:OD1	9:PH:306:ARG:NH2	2.35	0.60
9:PP:290:THR:HG21	9:PP:329:GLN:HB3	1.83	0.60
28:Q2:143:GLN:NE2	12:S7:443:ASP:OD2	2.34	0.60
8:QE:244:PHE:CE2	8:QE:357:TYR:HB2	2.36	0.60
9:QH:150:LEU:HG	9:QH:154:LYS:HE2	1.84	0.60
9:QH:330:MET:SD	9:QH:330:MET:N	2.74	0.60
8:QI:172:TYR:N	8:QI:204:VAL:O	2.35	0.60
8:QI:264:ARG:NH1	8:QI:431:ASP:OD2	2.34	0.60
9:QL:207:LEU:HA	9:QL:210:ILE:HG12	1.81	0.60
9:QN:48:ASN:O	9:QN:62:ARG:NH2	2.34	0.60
8:RC:90:GLU:HG2	8:RC:121:ARG:HE	1.67	0.60
8:RK:315:CYS:HB3	8:RK:317:MET:HE1	1.82	0.60
12:S3:414:ASP:OD1	12:S3:415:MET:N	2.31	0.60
12:S6:185:LEU:HD21	12:S6:233:MET:HB3	1.83	0.60
8:SC:9:VAL:HB	8:SC:139:HIS:HB3	1.84	0.60
9:SF:324:LYS:HB2	8:SG:221:ARG:HH12	1.65	0.60
9:TF:8:GLN:HB3	9:TF:65:LEU:HA	1.82	0.60
30:U2:77:THR:HG22	30:U2:78:ILE:H	1.66	0.60
30:U7:145:ARG:HG2	30:U8:399:ARG:HH22	1.66	0.60
30:U7:305:ARG:HA	30:U7:308:GLN:HB2	1.82	0.60
30:U8:415:ARG:C	30:U8:415:ARG:HE	2.09	0.60
30:V3:393:GLN:HA	30:V3:396:LEU:HD12	1.82	0.60
8:VC:123:ARG:NH1	8:VC:127:ASP:OD1	2.33	0.60
8:WC:264:ARG:NH1	8:WC:431:ASP:OD2	2.34	0.60
8:WI:236:SER:OG	8:WI:243:ARG:NH2	2.35	0.60
34:X8:141:VAL:HA	34:X8:152:ILE:HA	1.83	0.60
41:b4:402:GLN:HB3	44:h4:59:PRO:HD2	1.83	0.60
3:3:172:HIS:HE1	16:G:80:LYS:NZ	1.99	0.60
8:AA:11:GLN:HA	8:AA:74:VAL:HG11	1.83	0.60
9:AF:117:LEU:HD21	9:AF:154:LYS:HD3	1.82	0.60
9:AF:245:GLN:HG2	33:X4:237:ILE:CD1	2.31	0.60
9:AL:3:GLU:HG3	9:AL:127:CYS:SG	2.41	0.60
9:BD:133:PHE:HD2	9:BD:164:MET:HE1	1.67	0.60
9:BF:163:ILE:HD11	9:BF:251:ARG:HE	1.65	0.60
9:BL:113:VAL:HG11	9:BL:150:LEU:HD22	1.82	0.60
8:BO:239:THR:OG1	8:BO:243:ARG:NH1	2.34	0.60
10:C:354:PHE:CZ	10:C:358:MET:HE3	2.36	0.60
12:C1:121:ARG:NH1	12:C2:374:GLN:OE1	2.34	0.60
8:CI:339:ARG:O	8:CI:339:ARG:NE	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:49:VAL:HG21	9:CN:241:ARG:HG2	1.83	0.60
14:D3:63:ARG:NH1	14:D4:415:ASP:OD2	2.34	0.60
14:D4:276:VAL:HG22	14:D4:279:ARG:HH21	1.66	0.60
8:DC:270:ALA:HB3	8:DC:302:MET:HE1	1.82	0.60
8:EE:399:TYR:O	8:EE:402:ARG:NH1	2.35	0.60
9:EL:269:GLY:HA2	9:EL:300:MET:HE3	1.83	0.60
8:EM:40:LYS:H	31:Z:435:ARG:NH1	1.98	0.60
8:FA:254:GLU:HG2	9:FB:98:GLY:HA2	1.84	0.60
8:FK:66:VAL:HG21	8:FK:122:ILE:HD13	1.83	0.60
8:GA:320:ARG:HD3	8:GA:360:PRO:HG3	1.83	0.60
9:GF:172:SER:OG	9:GF:205:GLU:OE1	2.17	0.60
8:GI:147:SER:OG	8:GI:190:THR:OG1	2.17	0.60
9:HH:67:ASP:OD1	9:HH:68:LEU:N	2.34	0.60
8:IE:182:VAL:HG13	8:IE:186:ASN:HD21	1.67	0.60
8:IG:88:HIS:HB2	9:JH:280:GLN:HG3	1.83	0.60
8:IK:53:PHE:O	8:IK:64:ARG:NH1	2.35	0.60
19:J3:68:LEU:HA	8:OG:221:ARG:HG3	1.84	0.60
19:J4:118:ARG:HA	19:J4:148:ARG:HA	1.83	0.60
8:JE:70:LEU:HD23	8:JE:145:THR:HG23	1.82	0.60
8:JG:236:SER:OG	8:JG:243:ARG:NH2	2.32	0.60
9:JH:218:THR:HG22	9:JH:219:THR:HG23	1.83	0.60
8:KG:58:ALA:C	29:S:332:ARG:HH12	2.10	0.60
8:KM:254:GLU:HG2	9:KN:98:GLY:HA2	1.83	0.60
8:KO:2:ARG:HB3	8:KO:242:LEU:HD23	1.82	0.60
8:LA:338:LYS:NZ	41:b1:382:LEU:HD12	2.17	0.60
9:LN:252:LYS:HE2	8:LO:100:ALA:HA	1.84	0.60
9:MH:61:PRO:HD3	9:MH:84:ILE:HG22	1.84	0.60
8:MO:241:SER:OG	8:MO:250:VAL:O	2.19	0.60
9:MP:358:PRO:HG2	9:MP:361:LEU:HB3	1.84	0.60
9:ND:54:ALA:HB3	9:ND:58:LYS:HB3	1.83	0.60
9:NF:326:VAL:O	9:NF:330:MET:HB2	2.01	0.60
8:NI:70:LEU:HB3	8:NI:98:ASP:HA	1.82	0.60
8:OC:53:PHE:O	8:OC:64:ARG:NH2	2.34	0.60
9:OD:207:LEU:HD13	9:OD:225:LEU:HB3	1.84	0.60
8:OE:239:THR:OG1	8:OE:243:ARG:NH1	2.35	0.60
9:ON:213:ARG:HH22	36:Y5:208:PRO:HD3	1.66	0.60
8:PC:298:PRO:HA	8:PC:301:GLN:HG2	1.84	0.60
8:PM:335:ILE:HA	8:PM:338:LYS:HE3	1.83	0.60
9:QH:248:ALA:HA	9:QH:252:LYS:HG3	1.83	0.60
9:QL:54:ALA:HA	9:RL:283:ALA:HB2	1.83	0.60
9:QL:309:ARG:NH1	9:QL:339:SER:O	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RD:299:MET:N	9:RD:299:MET:SD	2.74	0.60
8:RK:399:TYR:O	8:RK:402:ARG:NH1	2.35	0.60
8:RO:385:ALA:HA	8:RO:388:TRP:HD1	1.66	0.60
12:S3:235:GLN:HG2	12:S3:239:LYS:HZ1	1.67	0.60
12:S7:183:ARG:HE	12:S7:186:ILE:HG21	1.67	0.60
9:SB:54:ALA:HB3	9:SB:58:LYS:HB3	1.83	0.60
9:SH:392:LYS:HE2	9:SH:395:LEU:HB3	1.84	0.60
9:SJ:271:ALA:HB1	9:SJ:289:LEU:HD22	1.83	0.60
25:T:166:LYS:HA	25:T:199:ILE:HD11	1.84	0.60
14:T2:104:GLY:HA2	14:T2:107:LEU:HD12	1.84	0.60
14:T4:385:ASN:HB3	14:T4:389:ARG:HH12	1.67	0.60
9:TN:1:MET:SD	9:TN:2:ARG:N	2.75	0.60
8:UC:60:LYS:HZ1	8:VC:283:HIS:HA	1.66	0.60
8:UC:264:ARG:NH1	8:UC:431:ASP:OD2	2.35	0.60
8:UM:22:GLU:O	8:UM:26:LEU:HD12	2.01	0.60
8:UM:53:PHE:HA	8:UM:62:VAL:O	2.01	0.60
8:VM:285:GLN:NE2	8:VM:286:LEU:O	2.33	0.60
8:WI:63:PRO:O	8:WI:91:GLN:NE2	2.34	0.60
35:XC:33:HIS:HE1	35:XC:50:GLU:HB2	1.66	0.60
35:XD:81:LYS:HD3	35:XD:161:ARG:HD2	1.83	0.60
35:XG:111:THR:OG1	35:XG:113:ARG:NH2	2.34	0.60
31:Y:442:THR:HG21	31:Y:447:ASP:H	1.66	0.60
41:b5:310:ILE:O	41:b5:314:MET:HG2	2.01	0.60
42:f:605:VAL:HG12	42:f:611:ILE:HG23	1.84	0.60
43:h:226:ARG:HH21	43:h:230:LEU:HD21	1.67	0.60
43:k:193:ARG:NH1	43:k:248:LYS:O	2.35	0.60
1:7:183:CYS:HA	8:KE:46:ASP:HB2	1.84	0.60
9:AB:8:GLN:HG2	9:AB:14:ASN:HA	1.83	0.60
9:AB:67:ASP:O	9:AB:92:PHE:HA	2.01	0.60
8:AE:195:LEU:HD11	8:AE:264:ARG:HG2	1.83	0.60
8:AM:70:LEU:HB3	8:AM:98:ASP:HA	1.84	0.60
10:B:300:ASN:HA	10:B:303:MET:HB3	1.83	0.60
8:BI:437:VAL:O	9:BJ:391:ARG:NH2	2.35	0.60
9:BJ:10:GLY:O	9:BJ:14:ASN:ND2	2.34	0.60
12:C3:80:MET:SD	12:C3:80:MET:N	2.75	0.60
12:C4:344:ASN:OD1	12:C4:477:ARG:NH1	2.35	0.60
9:DB:5:VAL:HG22	9:DB:62:ARG:HD2	1.82	0.60
9:DD:267:MET:HE1	9:DD:305:PRO:HD3	1.83	0.60
8:DK:172:TYR:N	8:DK:204:VAL:O	2.33	0.60
8:DM:327:ASP:OD1	8:DM:327:ASP:N	2.35	0.60
8:DM:339:ARG:HH21	8:DM:342:GLN:HG2	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EB:156:ARG:HH11	9:EB:164:MET:HE2	1.65	0.60
8:EE:165:SER:HB3	8:EE:256:GLN:HE22	1.67	0.60
9:EH:136:THR:HG22	9:EH:167:PHE:HB2	1.83	0.60
8:EM:31:GLN:HG2	8:EM:37:PRO:HD3	1.83	0.60
8:EM:57:GLY:HA3	31:Z:714:LYS:HG3	1.83	0.60
8:EO:88:HIS:HD2	8:FO:283:HIS:HB2	1.66	0.60
15:F:205:LEU:HD13	15:F:208:GLU:HG3	1.84	0.60
8:FC:247:ALA:O	9:FD:11:GLN:NE2	2.34	0.60
9:GD:309:ARG:HG3	9:GD:426:GLN:HG3	1.83	0.60
9:GF:309:ARG:NH2	9:GF:339:SER:O	2.35	0.60
9:GL:52:ASN:OD1	9:GL:62:ARG:NH1	2.35	0.60
18:I1:76:ARG:O	18:I1:81:ASN:ND2	2.35	0.60
8:IA:437:VAL:O	9:IB:391:ARG:NH2	2.34	0.60
8:IE:151:SER:HA	8:IE:193:THR:HG21	1.83	0.60
8:IG:255:PHE:HA	8:IG:258:ASN:OD1	2.02	0.60
8:JC:66:VAL:HG21	8:JC:122:ILE:HG22	1.84	0.60
9:JF:268:PRO:HG2	9:JF:300:MET:HE2	1.83	0.60
8:JK:191:THR:HA	8:JK:194:THR:HG22	1.84	0.60
9:JL:1:MET:N	9:JL:3:GLU:OE1	2.34	0.60
9:JP:48:ASN:O	9:JP:62:ARG:NH2	2.27	0.60
9:JP:156:ARG:HG3	9:JP:195:ASN:HB2	1.83	0.60
8:KC:124:LYS:NZ	8:LC:297:GLU:OE2	2.35	0.60
8:KI:116:ASP:OD1	8:KI:116:ASP:N	2.35	0.60
9:KN:117:LEU:HD11	9:KN:154:LYS:HD3	1.84	0.60
9:LD:209:ASP:OD2	9:LD:213:ARG:NH1	2.35	0.60
9:LH:170:VAL:HG21	9:LH:377:LEU:HD21	1.83	0.60
9:LL:309:ARG:HG3	9:LL:426:GLN:HG3	1.83	0.60
8:LM:56:THR:HA	8:MM:285:GLN:HB3	1.82	0.60
22:M4:197:GLU:N	22:M4:197:GLU:OE1	2.34	0.60
6:N1:19:LEU:O	6:N1:22:THR:OG1	2.18	0.60
8:NM:55:GLU:CA	8:NM:61:HIS:HA	2.31	0.60
9:NP:54:ALA:HA	9:OP:283:ALA:HB2	1.84	0.60
9:NP:68:LEU:HB3	9:NP:96:GLY:HA2	1.83	0.60
25:O5:358:LYS:NZ	27:P6:45:ASP:OD2	2.34	0.60
8:OA:214:ARG:NH1	8:OA:222:PRO:HG2	2.16	0.60
8:OE:209:ILE:HG21	8:OE:227:LEU:HG	1.83	0.60
9:OL:20:PHE:CZ	9:OL:230:SER:HA	2.37	0.60
26:P2:58:GLU:OE1	26:P2:62:LYS:NZ	2.31	0.60
9:PL:198:GLU:HA	9:PL:264:HIS:HB2	1.84	0.60
28:Q4:51:PHE:HD1	28:Q4:58:ALA:HB1	1.67	0.60
11:R4:413:ARG:HE	11:R4:417:ARG:NH2	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RH:51:TYR:HB3	9:RH:59:TYR:HB3	1.83	0.60
9:RL:87:PRO:HD2	9:RL:88:ASP:H	1.66	0.60
9:SD:299:MET:N	9:SD:299:MET:SD	2.75	0.60
9:SF:1:MET:SD	9:SF:2:ARG:N	2.74	0.60
9:SF:52:ASN:OD1	9:SF:62:ARG:NH1	2.35	0.60
8:SI:353:VAL:HB	9:SJ:177:ASP:HB2	1.82	0.60
9:SJ:337:ASN:HB3	9:SJ:340:TYR:HD2	1.66	0.60
8:SK:377:MET:HE3	8:SK:378:LEU:H	1.66	0.60
8:TA:317:MET:SD	8:TA:318:LEU:N	2.74	0.60
9:TB:60:VAL:HG21	9:TB:86:ARG:HH21	1.67	0.60
9:TB:159:TYR:HB3	9:TB:162:ARG:HG2	1.83	0.60
8:UA:147:SER:OG	8:UA:190:THR:OG1	2.20	0.60
9:UD:337:ASN:HB3	9:UD:340:TYR:HD2	1.67	0.60
9:UD:401:GLU:HB2	9:UD:403:MET:HE1	1.83	0.60
8:UE:203:MET:SD	8:UE:203:MET:N	2.75	0.60
8:UI:56:THR:HG22	8:UI:60:LYS:H	1.67	0.60
8:UI:239:THR:OG1	8:UI:243:ARG:NH1	2.34	0.60
8:UO:155:GLU:OE1	8:UO:156:ARG:NH1	2.34	0.60
30:V1:325:PHE:HA	30:V1:328:LEU:HD12	1.83	0.60
9:VB:101:TRP:HB2	9:VB:184:ASN:HB3	1.83	0.60
8:VI:89:PRO:HD2	8:WI:283:HIS:CE1	2.37	0.60
8:VM:107:HIS:HA	8:VM:152:LEU:HD23	1.84	0.60
9:WH:213:ARG:NH1	9:WH:214:THR:OG1	2.35	0.60
9:WP:6:HIS:HD1	9:WP:134:GLN:CD	2.10	0.60
31:Z:655:THR:HG22	31:Z:688:ILE:HG13	1.83	0.60
40:a3:31:SER:OG	40:a3:32:GLU:N	2.34	0.60
41:b5:259:ALA:HB1	41:b5:262:HIS:HB3	1.83	0.60
4:j1:78:ASP:O	4:j1:83:ASN:ND2	2.29	0.60
47:o:181:GLU:HA	47:o:184:LYS:HD3	1.82	0.60
2:2:470:ILE:HD12	2:2:470:ILE:H	1.66	0.60
2:2:487:TRP:HE1	2:2:489:HIS:HB3	1.67	0.60
8:AE:119:LEU:HD13	8:AE:122:ILE:HD11	1.84	0.60
8:AO:439:SER:H	9:AP:391:ARG:HH21	1.50	0.60
11:B2:185:ILE:HD12	28:Q2:137:MET:HE3	1.83	0.60
9:BN:63:ALA:O	9:BN:89:ASN:ND2	2.35	0.60
9:CD:347:ASN:ND2	8:CE:180:ALA:O	2.31	0.60
9:CF:341:PHE:HB3	9:CF:348:ASN:HD21	1.67	0.60
8:CK:75:VAL:HG12	8:CK:79:ARG:HE	1.65	0.60
9:CN:256:ASN:HD21	8:CO:181:VAL:H	1.47	0.60
8:CQ:239:THR:OG1	8:CQ:243:ARG:NH1	2.34	0.60
14:D4:51:TYR:HB2	14:D4:55:GLU:OE1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DF:280:GLN:HA	25:U:256:PHE:CE1	2.37	0.60
8:EA:53:PHE:HB3	8:EA:61:HIS:HB3	1.84	0.60
8:EC:140:SER:HB2	8:EC:171:ILE:HD11	1.83	0.60
8:EE:50:ASN:O	8:EE:64:ARG:NH1	2.35	0.60
9:EH:165:ASN:HB3	9:EH:198:GLU:HG3	1.84	0.60
9:FB:178:THR:HB	9:FB:181:GLU:HB3	1.83	0.60
9:FF:245:GLN:O	8:FG:11:GLN:NE2	2.35	0.60
9:GF:62:ARG:NH1	9:GF:127:CYS:SG	2.74	0.60
9:GJ:293:MET:SD	9:GJ:367:PHE:HB3	2.42	0.60
8:HM:71:GLU:HG3	8:HM:98:ASP:HB3	1.84	0.60
17:I:264:ARG:NH1	31:W:88:GLU:OE1	2.33	0.60
9:IB:286:VAL:HG21	9:IB:321:MET:HE3	1.84	0.60
8:IG:189:LEU:O	8:IG:192:HIS:ND1	2.34	0.60
9:IH:8:GLN:HE21	9:IH:14:ASN:HA	1.67	0.60
8:II:152:LEU:HA	8:II:155:GLU:HG2	1.83	0.60
8:IM:261:PRO:HG3	8:IM:313:MET:HE2	1.83	0.60
9:IN:48:ASN:O	9:IN:62:ARG:NH2	2.34	0.60
8:IO:167:LEU:HD11	8:IO:255:PHE:HZ	1.67	0.60
8:IO:188:ILE:HG21	8:IO:395:PHE:CE1	2.37	0.60
8:JC:254:GLU:HG2	9:JD:98:GLY:HA2	1.84	0.60
8:JG:155:GLU:HA	8:JG:197:HIS:HD2	1.67	0.60
9:JH:156:ARG:HG3	9:JH:195:ASN:HB3	1.84	0.60
9:JH:236:VAL:HG13	9:JH:237:THR:HG23	1.82	0.60
8:KA:124:LYS:NZ	8:LA:297:GLU:OE2	2.35	0.60
9:KL:304:ASP:OD2	9:KL:306:ARG:NH1	2.35	0.60
8:LM:188:ILE:O	8:LM:191:THR:OG1	2.19	0.60
8:LO:172:TYR:HH	8:LO:388:TRP:CD1	2.20	0.60
8:MG:292:THR:HG21	8:MG:331:ALA:HB1	1.82	0.60
8:MM:145:THR:OG1	50:MM:501:GTP:O1B	2.20	0.60
9:MN:48:ASN:O	9:MN:62:ARG:NH2	2.33	0.60
8:NC:160:ASP:O	36:Y4:178:LYS:NZ	2.33	0.60
8:NE:248:LEU:HD11	9:NF:222:TYR:HE2	1.67	0.60
8:NM:170:ALA:HB3	8:NM:203:MET:HE1	1.83	0.60
8:NO:151:SER:HA	8:NO:193:THR:HG21	1.84	0.60
9:OB:54:ALA:HB3	9:OB:58:LYS:HB3	1.83	0.60
9:OD:329:GLN:NE2	36:Y4:159:PRO:O	2.35	0.60
8:OE:292:THR:HG21	8:OE:331:ALA:HB1	1.83	0.60
8:OG:70:LEU:HB3	8:OG:98:ASP:HA	1.84	0.60
9:OH:294:PHE:CZ	36:Y4:89:ILE:HA	2.35	0.60
27:P5:171:ARG:HH21	27:P5:177:PRO:HG3	1.66	0.60
9:PF:8:GLN:HB3	9:PF:65:LEU:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QL:46:ARG:NH1	9:QL:240:LEU:O	2.35	0.60
9:QN:7:LEU:N	9:QN:134:GLN:O	2.35	0.60
9:QP:112:LEU:HB3	9:QP:147:MET:HE1	1.84	0.60
11:R1:75:LYS:HZ3	11:R1:180:MET:HG2	1.66	0.60
11:R2:315:HIS:HD2	11:R3:202:LYS:H	1.50	0.60
12:S7:93:ARG:NH2	12:S8:203:GLU:OE2	2.35	0.60
12:S9:415:MET:HA	12:S9:418:LEU:HD13	1.83	0.60
9:SD:130:LEU:O	9:SD:162:ARG:NH1	2.32	0.60
9:SF:337:ASN:HB3	9:SF:340:TYR:HD2	1.67	0.60
14:T3:8:LEU:HD22	14:T4:253:THR:HG23	1.82	0.60
9:TN:6:HIS:HD2	9:TN:21:TRP:HE1	1.49	0.60
30:U0:306:HIS:O	30:U0:310:MET:HG2	2.02	0.60
9:UJ:2:ARG:NH2	8:UK:98:ASP:OD1	2.35	0.60
30:V3:481:ARG:HG3	30:W0:140:ARG:HG2	1.84	0.60
8:VO:325:PRO:HA	8:VO:328:VAL:HB	1.83	0.60
8:WA:121:ARG:HH21	8:WA:124:LYS:HD2	1.66	0.60
8:WA:287:SER:N	8:WA:290:GLU:OE2	2.22	0.60
9:WF:267:MET:N	9:WF:267:MET:SD	2.75	0.60
8:WG:239:THR:OG1	8:WG:243:ARG:NH1	2.34	0.60
9:WH:396:HIS:HA	9:WH:399:THR:HG22	1.82	0.60
36:Y1:47:ARG:HH21	36:Y1:50:ALA:H	1.49	0.60
36:Y1:179:THR:HG22	36:Y1:182:PRO:HD2	1.83	0.60
39:b:499:GLU:OE1	39:b:502:ARG:NH1	2.35	0.60
4:j1:110:LYS:HA	4:j1:185:ASP:HA	1.84	0.60
2:1:651:ARG:NH1	9:IF:55:THR:OG1	2.35	0.60
3:3:368:LYS:HA	3:3:371:LYS:HD2	1.84	0.60
9:AD:156:ARG:NH2	9:AD:197:ASP:OD1	2.35	0.60
8:AE:70:LEU:HB3	8:AE:98:ASP:HA	1.84	0.60
8:AG:51:THR:HG21	8:AG:243:ARG:HG2	1.83	0.60
11:B5:258:ARG:HE	11:B5:397:LEU:HG	1.65	0.60
8:BC:213:CYS:HA	8:BC:217:LEU:HD23	1.84	0.60
9:BF:280:GLN:NE2	25:U:106:ASP:O	2.35	0.60
8:BK:245:ASP:HA	8:BK:249:ASN:HD21	1.66	0.60
9:CH:10:GLY:O	9:CH:14:ASN:ND2	2.35	0.60
8:CI:147:SER:OG	8:CI:190:THR:OG1	2.14	0.60
8:DC:26:LEU:HD12	8:DC:363:VAL:HG22	1.84	0.60
9:EF:252:LYS:NZ	50:EG:501:GTP:O3G	2.32	0.60
9:EJ:256:ASN:HD21	8:EK:181:VAL:H	1.50	0.60
9:EN:114:ASP:N	9:EN:114:ASP:OD1	2.34	0.60
8:EO:251:ASP:OD2	8:EO:253:THR:N	2.34	0.60
9:FJ:177:ASP:N	9:FJ:177:ASP:OD1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FL:252:LYS:NZ	50:FM:501:GTP:O3G	2.27	0.60
9:GB:54:ALA:HB3	9:GB:58:LYS:HB2	1.84	0.60
9:GB:314:ALA:HB3	9:GB:368:ILE:HG23	1.83	0.60
9:GF:358:PRO:HG2	9:GF:361:LEU:HB3	1.84	0.60
8:GG:350:GLY:HA2	9:GH:179:VAL:HG13	1.82	0.60
9:HB:309:ARG:HG3	9:HB:426:GLN:HG3	1.84	0.60
8:HC:258:ASN:ND2	8:HC:352:LYS:HG3	2.17	0.60
9:HL:346:PRO:HD2	8:HM:398:MET:HE3	1.84	0.60
9:HN:10:GLY:O	9:HN:14:ASN:ND2	2.35	0.60
8:IA:258:ASN:HD21	9:IB:178:THR:HG23	1.67	0.60
9:IB:117:LEU:HD21	9:IB:154:LYS:HD3	1.84	0.60
9:ID:63:ALA:O	9:ID:89:ASN:ND2	2.35	0.60
8:IE:139:HIS:ND1	8:IE:146:GLY:O	2.35	0.60
9:IF:136:THR:HG22	9:IF:167:PHE:HD1	1.66	0.60
9:IF:363:MET:HE3	9:IF:364:SER:H	1.66	0.60
8:II:437:VAL:O	9:IJ:391:ARG:NH2	2.33	0.60
8:IO:172:TYR:CG	8:IO:203:MET:HE2	2.37	0.60
9:JB:305:PRO:HB2	9:JB:310:TYR:HE1	1.66	0.60
8:JE:44:GLY:HA2	8:JE:244:PHE:CE1	2.36	0.60
9:JP:130:LEU:O	9:JP:162:ARG:NH1	2.31	0.60
8:KG:417:GLU:OE2	41:b3:156:ARG:NH1	2.35	0.60
9:KJ:257:MET:SD	9:KJ:312:THR:OG1	2.57	0.60
9:LH:194:GLU:HB3	43:j:68:LYS:HZ1	1.67	0.60
9:LL:51:TYR:O	9:LL:62:ARG:NH2	2.35	0.60
8:LO:56:THR:HA	8:MO:285:GLN:HB2	1.83	0.60
9:MB:117:LEU:HD11	9:MB:154:LYS:HD3	1.82	0.60
9:MN:5:VAL:HG22	9:MN:62:ARG:HD2	1.83	0.60
15:N2:47:LYS:HG2	15:N2:51:LEU:HD23	1.84	0.60
9:NF:130:LEU:O	9:NF:162:ARG:NH1	2.33	0.60
9:NH:8:GLN:HE21	9:NH:14:ASN:HA	1.66	0.60
9:NJ:8:GLN:HB3	9:NJ:65:LEU:HA	1.83	0.60
8:NK:50:ASN:O	8:NK:64:ARG:NH1	2.35	0.60
8:OC:215:ARG:NH1	36:Y4:187:GLN:OE1	2.33	0.60
8:OE:317:MET:N	8:OE:317:MET:HE2	2.16	0.60
8:PC:23:LEU:HD12	8:PC:26:LEU:HD11	1.84	0.60
9:PD:314:ALA:HB3	9:PD:368:ILE:HB	1.82	0.60
9:PJ:245:GLN:O	8:PK:11:GLN:NE2	2.34	0.60
9:PJ:286:VAL:HG21	9:PJ:321:MET:HG2	1.84	0.60
8:QI:63:PRO:O	8:QI:91:GLN:NE2	2.34	0.60
9:QN:310:TYR:CD1	9:QN:371:SER:HB2	2.37	0.60
11:R2:321:ARG:O	11:R2:324:ARG:NH1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S1:167:MET:HE1	12:S1:247:ASP:HB3	1.84	0.60
12:S8:98:ASP:HA	12:S8:101:ARG:NH1	2.17	0.60
9:SF:24:ILE:HG12	9:SF:241:ARG:NH1	2.16	0.60
9:SJ:86:ARG:HG2	9:SJ:89:ASN:H	1.67	0.60
8:SM:50:ASN:O	8:SM:64:ARG:NH1	2.35	0.60
14:T5:316:GLN:HE22	30:U0:271:ARG:HE	1.49	0.60
9:TH:317:PHE:HB3	9:TH:321:MET:HE2	1.84	0.60
8:TK:116:ASP:OD1	8:TK:116:ASP:N	2.34	0.60
9:TL:257:MET:SD	9:TL:312:THR:OG1	2.59	0.60
30:U0:402:ARG:NH1	30:U1:145:ARG:HH12	2.00	0.60
8:UI:328:VAL:HG21	8:UI:355:ILE:HD11	1.83	0.60
25:V:152:GLN:NE2	33:X4:321:PHE:O	2.32	0.60
9:VF:318:ARG:HH21	9:VF:358:PRO:HA	1.67	0.60
9:VL:58:LYS:NZ	9:VL:59:TYR:O	2.35	0.60
8:WI:255:PHE:O	8:WI:259:LEU:HB2	2.01	0.60
9:WJ:322:SER:OG	8:WK:222:PRO:O	2.19	0.60
35:XB:129:TRP:HB3	35:XB:183:LEU:HD21	1.83	0.60
39:a:188:GLU:HG3	39:a:190:GLU:H	1.66	0.60
40:a4:70:CYS:SG	40:a4:71:SER:N	2.75	0.60
39:c:393:ARG:NH1	47:o:117:ASP:OD2	2.35	0.60
4:5:72:GLU:O	4:5:75:ARG:NH1	2.35	0.59
9:AD:268:PRO:HG2	9:AD:300:MET:HE3	1.83	0.59
8:AM:319:TYR:HB3	8:AM:323:VAL:HG21	1.84	0.59
10:B:325:GLN:HA	10:B:328:GLN:OE1	2.01	0.59
11:B4:122:SER:O	11:B4:124:ARG:NH1	2.34	0.59
11:B4:324:ARG:NH2	11:B4:330:CYS:O	2.33	0.59
9:CJ:334:GLN:NE2	9:CJ:348:ASN:OD1	2.34	0.59
8:CO:79:ARG:NH1	40:a4:107:GLY:O	2.35	0.59
9:DJ:68:LEU:HD23	9:DJ:143:THR:HG23	1.82	0.59
9:DN:219:THR:HG23	25:O5:281:ARG:NH2	2.09	0.59
8:DO:320:ARG:HD3	8:DO:360:PRO:HG3	1.84	0.59
9:EB:2:ARG:HH21	8:EC:72:PRO:HD2	1.67	0.59
9:ED:48:ASN:O	9:ED:62:ARG:NH2	2.34	0.59
8:EE:292:THR:HG21	8:EE:331:ALA:HB1	1.84	0.59
8:EK:320:ARG:HD3	8:EK:360:PRO:HG3	1.83	0.59
9:EL:325:GLU:H	8:EM:221:ARG:NH2	2.00	0.59
8:EM:221:ARG:HG3	17:N:31:VAL:HG12	1.83	0.59
8:FI:132:LEU:O	8:FI:164:LYS:NZ	2.32	0.59
8:GE:53:PHE:O	8:GE:64:ARG:NH1	2.35	0.59
8:GG:345:ASP:N	8:GG:345:ASP:OD1	2.33	0.59
9:IJ:407:GLU:N	9:IJ:407:GLU:OE1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IL:58:LYS:HD3	8:JM:282:TYR:CE2	2.36	0.59
19:J4:142:ARG:HH22	9:KL:421:GLU:HG3	1.66	0.59
8:JE:439:SER:OG	9:JF:391:ARG:NH2	2.36	0.59
8:JK:151:SER:HA	8:JK:193:THR:HG21	1.83	0.59
8:JO:107:HIS:HA	8:JO:152:LEU:HD23	1.82	0.59
8:KC:14:VAL:HG13	8:KC:67:PHE:HD2	1.66	0.59
9:KD:32:PRO:HG2	15:N2:228:ASN:HB2	1.83	0.59
9:KF:8:GLN:NE2	9:KF:17:GLY:HA3	2.16	0.59
8:LK:50:ASN:O	8:LK:64:ARG:NH1	2.35	0.59
8:MI:195:LEU:HD23	8:MI:196:GLU:HG2	1.83	0.59
8:NA:317:MET:CE	8:NA:353:VAL:HA	2.32	0.59
9:NH:314:ALA:HB3	9:NH:368:ILE:HB	1.83	0.59
9:NN:12:CYS:SG	9:NN:138:SER:OG	2.55	0.59
8:OA:326:LYS:HE2	9:OB:220:PRO:HG2	1.84	0.59
9:OJ:54:ALA:HA	9:PJ:283:ALA:HB2	1.83	0.59
9:OJ:267:MET:HE1	9:OJ:371:SER:HB3	1.84	0.59
8:OM:35:GLN:HG2	8:OM:60:LYS:NZ	2.17	0.59
9:ON:273:LEU:O	9:ON:292:GLN:NE2	2.28	0.59
8:OO:239:THR:OG1	8:OO:243:ARG:NH1	2.35	0.59
9:OP:20:PHE:CE1	9:OP:230:SER:HA	2.37	0.59
8:PE:107:HIS:HA	8:PE:152:LEU:HD23	1.84	0.59
9:PF:198:GLU:HA	9:PF:264:HIS:HB2	1.84	0.59
9:QH:318:ARG:HB3	9:QH:364:SER:HB2	1.83	0.59
8:RM:7:ILE:HD12	8:RM:137:ILE:HG12	1.84	0.59
8:RM:154:MET:SD	8:RM:197:HIS:HB3	2.41	0.59
8:RO:108:TYR:CD2	8:RO:413:MET:HG2	2.37	0.59
12:S8:117:SER:O	12:S8:121:ARG:HG3	2.01	0.59
8:SC:170:ALA:HB3	8:SC:203:MET:HE3	1.84	0.59
9:SD:293:MET:HE2	9:SD:367:PHE:HB3	1.83	0.59
9:SH:276:ARG:HE	9:SH:279:GLN:HG3	1.67	0.59
8:TC:101:ASN:HA	8:TC:144:GLY:H	1.67	0.59
8:TG:311:LYS:HA	8:TG:342:GLN:HE21	1.67	0.59
9:TJ:207:LEU:HB3	9:TJ:225:LEU:HD22	1.83	0.59
9:UN:8:GLN:HB3	9:UN:65:LEU:HA	1.83	0.59
30:V1:388:PRO:HB3	30:V2:135:GLN:HE21	1.67	0.59
30:V3:347:ILE:O	30:V3:351:THR:HG22	2.02	0.59
8:VA:320:ARG:HD3	8:VA:360:PRO:HG3	1.84	0.59
9:VH:252:LYS:HD3	8:VI:100:ALA:HA	1.84	0.59
8:VI:34:GLY:HA3	8:VI:60:LYS:HE3	1.84	0.59
9:VJ:2:ARG:HH21	9:VJ:46:ARG:HH12	1.48	0.59
30:W2:257:LYS:HZ2	30:W2:296:TRP:HE1	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W2:361:LEU:HB2	30:W2:451:LEU:HD22	1.83	0.59
9:WD:173:PRO:HG3	9:WD:380:ARG:HD3	1.84	0.59
8:WK:234:ILE:HD11	8:WK:272:TYR:HB2	1.84	0.59
35:XD:74:PRO:HD2	35:XD:169:ASP:HA	1.82	0.59
31:Z:355:ASP:OD1	31:Z:375:PRO:HB3	2.02	0.59
41:b2:406:GLY:O	44:h2:108:LYS:NZ	2.35	0.59
47:p:499:ARG:HH11	47:p:525:CYS:HB3	1.66	0.59
2:2:366:GLN:HE21	4:6:350:GLU:HG2	1.66	0.59
8:AC:285:GLN:HG2	8:MC:56:THR:HA	1.83	0.59
9:AD:194:GLU:OE2	37:YB:175:ARG:NH2	2.35	0.59
9:AJ:257:MET:HE1	9:AJ:312:THR:OG1	2.02	0.59
8:AK:283:HIS:ND1	8:MK:88:HIS:HA	2.17	0.59
9:AN:313:VAL:HG13	9:AN:367:PHE:HE1	1.66	0.59
8:BI:264:ARG:NH1	8:BI:431:ASP:OD2	2.35	0.59
9:BJ:65:LEU:HB3	9:BJ:73:MET:HE1	1.83	0.59
9:BP:56:GLY:O	17:O7:314:ARG:NH2	2.36	0.59
10:C:485:TYR:HE1	8:GG:41:THR:CG2	2.12	0.59
8:CC:195:LEU:HD11	8:CC:264:ARG:HD2	1.84	0.59
9:CF:328:GLU:OE2	9:CF:332:ASN:ND2	2.34	0.59
9:DF:112:LEU:HB3	9:DF:147:MET:HE1	1.84	0.59
9:DH:130:LEU:O	9:DH:162:ARG:NH1	2.35	0.59
8:DK:168:GLU:HB2	8:DK:201:ALA:HA	1.82	0.59
8:DM:165:SER:HB3	8:DM:256:GLN:HE22	1.66	0.59
8:EC:20:CYS:SG	8:EC:21:TRP:N	2.76	0.59
9:FN:24:ILE:HD12	9:FN:50:TYR:HD1	1.67	0.59
9:HH:7:LEU:N	9:HH:134:GLN:O	2.34	0.59
9:HL:187:LEU:O	9:HL:191:GLN:NE2	2.34	0.59
9:IB:286:VAL:HA	9:IB:289:LEU:HG	1.84	0.59
8:IG:66:VAL:HA	8:IG:91:GLN:HB2	1.84	0.59
9:IH:86:ARG:NH1	8:JI:280:LYS:O	2.34	0.59
19:J2:171:ILE:O	8:OE:372:GLN:NE2	2.35	0.59
19:J4:28:ILE:HG22	19:J4:30:PRO:HD2	1.84	0.59
8:JC:188:ILE:O	8:JC:191:THR:OG1	2.19	0.59
8:JI:342:GLN:OE1	34:X6:82:CYS:HB3	2.03	0.59
9:JJ:396:HIS:HA	9:JJ:399:THR:HG22	1.84	0.59
8:JO:316:CYS:HA	8:JO:352:LYS:HB2	1.83	0.59
9:LD:8:GLN:HE21	9:LD:17:GLY:HA3	1.67	0.59
8:LG:49:PHE:HB2	8:LG:53:PHE:HD2	1.67	0.59
9:LN:257:MET:HE3	9:LN:314:ALA:HB2	1.84	0.59
9:MH:173:PRO:HB3	9:MH:380:ARG:HD2	1.83	0.59
9:MN:108:GLU:OE2	9:MN:108:GLU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MO:408:TYR:HB3	8:MO:413:MET:HE3	1.84	0.59
9:NJ:344:TRP:CD1	9:NJ:345:ILE:HG13	2.37	0.59
9:NL:293:MET:CE	9:NL:367:PHE:HB2	2.32	0.59
8:NM:298:PRO:HG3	8:NM:308:ARG:HE	1.67	0.59
25:O5:285:ARG:HH12	25:O5:288:PHE:HB2	1.66	0.59
17:O9:145:ALA:HB1	17:O9:165:ALA:HB1	1.84	0.59
8:OC:88:HIS:HE1	8:OC:90:GLU:HB3	1.67	0.59
8:OC:103:TYR:HB3	8:OC:408:TYR:HE2	1.67	0.59
8:OE:139:HIS:O	8:OE:170:ALA:HA	2.02	0.59
9:OP:1:MET:HE2	9:OP:2:ARG:HD2	1.84	0.59
9:PD:290:THR:HG23	9:PD:293:MET:HE3	1.84	0.59
9:QD:309:ARG:HE	9:QD:342:VAL:HA	1.66	0.59
9:QH:67:ASP:HA	9:QH:143:THR:HG21	1.83	0.59
9:QJ:86:ARG:HH22	9:RJ:278:SER:HA	1.66	0.59
9:QJ:173:PRO:HG2	9:QJ:174:LYS:HD3	1.84	0.59
8:QM:320:ARG:HD3	8:QM:360:PRO:HG3	1.82	0.59
11:R0:136:GLU:HA	11:R0:139:LYS:HD2	1.84	0.59
11:R4:182:THR:OG1	11:R4:183:LEU:N	2.36	0.59
8:RG:7:ILE:HD13	8:RG:137:ILE:HG13	1.83	0.59
8:RG:298:PRO:HA	8:RG:301:GLN:HG2	1.82	0.59
8:RM:2:ARG:HB3	8:RM:242:LEU:HD23	1.84	0.59
12:S4:337:TRP:NE1	12:S4:341:ASN:HD21	2.01	0.59
30:U0:163:LEU:HD21	30:U0:247:GLN:HB2	1.83	0.59
8:UG:51:THR:HG21	8:UG:243:ARG:HG2	1.82	0.59
9:UH:245:GLN:NE2	8:UI:223:THR:OG1	2.35	0.59
8:UI:56:THR:HA	8:VI:285:GLN:HB2	1.82	0.59
9:UN:46:ARG:HH22	8:UO:73:THR:HG23	1.66	0.59
30:V2:181:ALA:HB2	30:V2:229:MET:HE3	1.83	0.59
8:VI:264:ARG:NH1	8:VI:431:ASP:OD2	2.35	0.59
8:VO:320:ARG:HD3	8:VO:360:PRO:HG3	1.83	0.59
33:X5:84:LYS:HZ2	33:X5:89:GLN:HG3	1.66	0.59
31:Y:257:ASP:OD2	31:Y:281:ARG:NH2	2.34	0.59
37:YD:105:PHE:CD2	37:YD:106:PRO:HA	2.37	0.59
39:a:191:LEU:HD21	39:b:517:ILE:HD13	1.83	0.59
39:c:308:LYS:O	39:c:312:GLN:HG2	2.02	0.59
1:0:49:TYR:HD2	1:0:50:SER:H	1.50	0.59
3:3:259:LEU:HD11	9:FH:55:THR:HG23	1.83	0.59
9:AD:18:ALA:O	9:AD:22:GLU:HG3	2.03	0.59
9:AL:180:VAL:HG23	9:AL:184:ASN:HD21	1.67	0.59
9:AN:48:ASN:O	9:AN:62:ARG:NH2	2.35	0.59
11:B2:17:TRP:NE1	11:B3:127:ASP:OD1	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BE:215:ARG:NH1	8:BE:216:ASN:OD1	2.35	0.59
9:BJ:357:PRO:O	17:L:270:TRP:NE1	2.32	0.59
8:BK:101:ASN:HA	8:BK:144:GLY:H	1.68	0.59
9:BN:213:ARG:HH21	9:BN:297:LYS:HD3	1.67	0.59
10:C:375:PHE:CE1	9:HJ:362:LYS:HE3	2.37	0.59
8:CM:103:TYR:HE2	8:CM:413:MET:HE1	1.68	0.59
9:CN:73:MET:HE3	9:CN:90:PHE:HB3	1.83	0.59
14:D1:43:THR:OG1	12:S3:203:GLU:OE1	2.19	0.59
9:DD:156:ARG:NH1	9:DD:197:ASP:OD1	2.35	0.59
8:DI:252:LEU:HA	8:DI:255:PHE:CE1	2.37	0.59
9:EN:245:GLN:O	8:EO:11:GLN:NE2	2.36	0.59
15:F:201:LEU:HD11	15:F:266:GLN:HG3	1.83	0.59
8:FA:188:ILE:O	8:FA:191:THR:OG1	2.17	0.59
8:FC:120:ASP:OD2	8:FC:121:ARG:NH2	2.35	0.59
8:FE:7:ILE:HD12	8:FE:137:ILE:HG12	1.84	0.59
8:FE:264:ARG:HH12	8:FE:428:LEU:HD22	1.67	0.59
8:FI:325:PRO:HG2	9:FJ:222:TYR:HD1	1.67	0.59
9:GF:284:LEU:HD22	9:GF:362:LYS:HD3	1.83	0.59
9:HB:4:ILE:HB	9:HB:50:TYR:HE2	1.67	0.59
9:IB:211:CYS:HA	9:IB:215:LEU:HB2	1.84	0.59
9:IB:347:ASN:ND2	8:IC:176:GLN:O	2.35	0.59
8:II:182:VAL:O	8:II:186:ASN:ND2	2.35	0.59
8:IM:258:ASN:HB2	8:IM:352:LYS:HD2	1.84	0.59
9:IN:271:ALA:HB1	9:IN:289:LEU:HD22	1.84	0.59
9:IN:372:THR:HA	9:IN:422:TYR:HE1	1.67	0.59
9:IP:221:THR:N	9:IP:224:ASP:OD2	2.31	0.59
9:JB:118:ASP:OD1	9:JB:121:ARG:NH2	2.33	0.59
9:JD:375:GLN:HE22	9:JD:423:GLN:HB2	1.67	0.59
9:JL:322:SER:OG	8:JM:222:PRO:O	2.19	0.59
8:JQ:317:MET:HE3	8:JQ:317:MET:HA	1.85	0.59
9:KB:7:LEU:HG	9:KB:135:LEU:HD13	1.83	0.59
8:KC:171:ILE:HD13	8:KC:204:VAL:HG13	1.83	0.59
9:KJ:375:GLN:NE2	9:KJ:423:GLN:OE1	2.25	0.59
9:KP:130:LEU:O	9:KP:162:ARG:NH1	2.35	0.59
9:LJ:343:GLU:N	9:LJ:343:GLU:OE2	2.35	0.59
8:MC:204:VAL:HG13	8:MC:302:MET:HB3	1.83	0.59
8:ME:370:LYS:H	23:P:292:GLN:HE22	1.50	0.59
8:MO:121:ARG:NH1	8:MO:121:ARG:O	2.35	0.59
8:MO:151:SER:HB3	8:MO:193:THR:HG21	1.84	0.59
8:NC:311:LYS:HA	8:NC:342:GLN:HE21	1.66	0.59
9:NN:130:LEU:O	9:NN:162:ARG:NH1	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OF:279:GLN:HA	9:OF:282:ARG:HD3	1.82	0.59
8:OG:264:ARG:NH1	8:OG:431:ASP:OD2	2.35	0.59
8:OM:147:SER:OG	8:OM:190:THR:OG1	2.17	0.59
8:PG:292:THR:HG21	8:PG:331:ALA:HB1	1.83	0.59
8:PI:88:HIS:CD2	8:QI:283:HIS:HB2	2.37	0.59
9:PL:331:LEU:HD21	8:PM:177:VAL:HG12	1.84	0.59
9:PN:236:VAL:HG23	9:PN:237:THR:HG23	1.84	0.59
8:QC:147:SER:OG	8:QC:190:THR:OG1	2.19	0.59
9:RF:293:MET:HE1	9:RF:294:PHE:CE2	2.37	0.59
9:RJ:170:VAL:HG11	9:RJ:377:LEU:HD11	1.83	0.59
8:RM:174:ALA:HB3	8:RM:177:VAL:O	2.02	0.59
8:RO:328:VAL:HG21	8:RO:355:ILE:HD11	1.84	0.59
12:S0:471:GLU:HG2	12:S0:472:LYS:HD2	1.84	0.59
9:SB:198:GLU:HA	9:SB:264:HIS:HB2	1.84	0.59
8:SE:186:ASN:O	8:SE:190:THR:OG1	2.18	0.59
9:SL:8:GLN:HE21	9:SL:14:ASN:HA	1.66	0.59
14:T2:438:PRO:HG2	14:T2:441:LEU:HD12	1.84	0.59
9:TH:7:LEU:HD13	9:TH:151:LEU:HD21	1.84	0.59
30:U5:289:THR:HG22	30:U6:407:LEU:HG	1.83	0.59
30:U5:346:ARG:HD2	30:U5:346:ARG:O	2.02	0.59
9:UD:360:GLY:H	39:c:390:ARG:HH12	1.49	0.59
9:UF:73:MET:N	9:UF:73:MET:SD	2.74	0.59
9:UF:249:ASP:H	9:UF:252:LYS:HB2	1.66	0.59
8:UG:53:PHE:O	8:UG:64:ARG:NH1	2.36	0.59
9:UH:325:GLU:OE2	8:UI:221:ARG:NH1	2.34	0.59
8:UK:188:ILE:O	8:UK:191:THR:OG1	2.21	0.59
8:UO:88:HIS:HE2	8:VO:284:GLU:HG2	1.67	0.59
8:VE:129:CYS:SG	8:VE:132:LEU:HD13	2.42	0.59
8:VM:85:GLN:HG3	42:g:495:ARG:HH22	1.67	0.59
30:W4:239:GLN:NE2	30:W4:243:ASN:OD1	2.36	0.59
9:WJ:309:ARG:H	9:WJ:372:THR:HB	1.66	0.59
8:WO:338:LYS:HE2	8:WO:340:THR:HB	1.84	0.59
33:X4:51:THR:HB	33:X4:54:LYS:HD3	1.83	0.59
33:X5:1:MET:HA	33:X5:12:PRO:HG3	1.84	0.59
34:X7:6:LEU:HB2	34:X7:81:VAL:HG22	1.84	0.59
44:h3:87:SER:HB2	44:h3:95:ARG:HH12	1.65	0.59
4:j1:158:ASP:N	4:j1:158:ASP:OD1	2.36	0.59
4:j1:261:CYS:HB3	4:j1:329:ILE:HB	1.85	0.59
2:1:774:HIS:ND1	9:IH:359:ARG:O	2.33	0.59
6:A:43:ARG:HB3	9:JF:77:ARG:CZ	2.31	0.59
9:AN:8:GLN:HG2	9:AN:14:ASN:HA	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AN:67:ASP:OD2	9:AN:72:THR:OG1	2.20	0.59
8:AO:16:ILE:HD13	8:AO:231:ILE:HD13	1.85	0.59
11:B3:136:GLU:HB3	11:B3:261:THR:HG22	1.84	0.59
8:BC:245:ASP:OD1	31:W:209:PRO:HA	2.03	0.59
8:BM:50:ASN:O	8:BM:64:ARG:NH1	2.35	0.59
9:BP:114:ASP:N	9:BP:114:ASP:OD1	2.34	0.59
10:C:306:LEU:HD21	8:HM:26:LEU:HD22	1.85	0.59
8:CG:76:ASP:HA	8:CG:79:ARG:HD3	1.84	0.59
14:D4:24:ARG:HG3	14:D4:26:GLU:H	1.67	0.59
9:DB:198:GLU:HA	9:DB:264:HIS:HB2	1.84	0.59
8:DE:215:ARG:NH1	8:DE:299:ALA:O	2.36	0.59
9:EB:73:MET:HA	9:EB:76:VAL:HB	1.83	0.59
9:EF:41:ASP:OD1	9:EF:41:ASP:N	2.36	0.59
9:EH:45:GLU:HG2	9:EH:46:ARG:HG2	1.84	0.59
9:FF:125:GLU:OE2	9:FF:159:TYR:OH	2.21	0.59
8:FO:399:TYR:O	8:FO:402:ARG:NH1	2.35	0.59
8:GI:188:ILE:O	8:GI:191:THR:OG1	2.19	0.59
9:GL:245:GLN:O	8:GM:11:GLN:NE2	2.35	0.59
8:HA:332:ILE:HD11	8:HA:351:PHE:CG	2.37	0.59
8:HC:302:MET:HE2	8:HC:302:MET:H	1.67	0.59
9:HD:337:ASN:HB3	9:HD:340:TYR:HD2	1.68	0.59
9:HF:236:VAL:HG13	9:HF:237:THR:HG23	1.85	0.59
8:HG:53:PHE:O	8:HG:64:ARG:NH1	2.36	0.59
9:HJ:117:LEU:O	9:HJ:121:ARG:HG2	2.01	0.59
8:HK:96:LYS:HG3	36:Y1:114:TYR:CE2	2.37	0.59
9:HP:1:MET:N	9:HP:3:GLU:OE2	2.35	0.59
8:IA:320:ARG:HD3	8:IA:360:PRO:HG3	1.83	0.59
8:IC:2:ARG:HG2	8:IC:133:GLN:HE21	1.67	0.59
8:IM:172:TYR:HD1	8:IM:203:MET:HG3	1.67	0.59
9:JF:164:MET:SD	9:JF:196:THR:HA	2.42	0.59
8:JI:120:ASP:OD2	8:JI:124:LYS:NZ	2.30	0.59
8:JK:329:ASN:OD1	9:JL:175:VAL:HG21	2.02	0.59
8:JQ:133:GLN:HG3	8:JQ:242:LEU:HD21	1.84	0.59
8:KA:195:LEU:HD21	44:h1:128:GLN:HE22	1.67	0.59
9:KH:284:LEU:HB3	9:KH:362:LYS:HZ1	1.67	0.59
21:L1:90:LEU:HA	21:L1:93:CYS:HB3	1.83	0.59
9:LJ:229:VAL:O	9:LJ:233:MET:HG3	2.01	0.59
8:LM:286:LEU:O	8:LM:373:ARG:NH1	2.35	0.59
9:MB:372:THR:HG21	9:MB:426:GLN:HB2	1.84	0.59
8:MC:262:TYR:OH	9:MD:391:ARG:O	2.21	0.59
9:NB:165:ASN:HB2	9:NB:200:TYR:HE2	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NC:53:PHE:O	8:NC:64:ARG:NH1	2.36	0.59
9:NJ:296:ALA:HA	9:NJ:299:MET:HE3	1.84	0.59
8:NO:226:ASN:ND2	8:NO:367:ASP:OD2	2.36	0.59
8:OC:151:SER:HB3	8:OC:193:THR:HG21	1.84	0.59
9:OF:274:THR:HG1	9:OF:282:ARG:NH1	2.00	0.59
8:OK:191:THR:HG21	8:OK:425:LEU:HG	1.84	0.59
9:ON:211:CYS:HA	9:ON:215:LEU:HB3	1.85	0.59
9:ON:313:VAL:HB	9:ON:349:VAL:HG12	1.84	0.59
8:OO:292:THR:HG21	8:OO:331:ALA:HB1	1.84	0.59
9:OP:358:PRO:HG2	9:OP:361:LEU:HB3	1.84	0.59
9:PB:247:ASN:O	9:PB:252:LYS:NZ	2.35	0.59
8:PE:139:HIS:O	8:PE:170:ALA:HA	2.01	0.59
8:PK:294:ALA:O	8:PK:300:ASN:ND2	2.36	0.59
8:PM:191:THR:HG21	8:PM:425:LEU:HD11	1.83	0.59
8:QO:25:CYS:O	8:QO:30:ILE:N	2.34	0.59
8:RE:184:PRO:HG3	8:RE:394:LYS:HE3	1.84	0.59
8:RG:70:LEU:HB3	8:RG:98:ASP:HA	1.85	0.59
8:RO:289:ALA:O	8:RO:293:ASN:ND2	2.36	0.59
12:S2:280:GLY:HA2	14:T2:41:LEU:HA	1.83	0.59
12:S3:280:GLY:HA2	14:T3:41:LEU:HD13	1.83	0.59
12:S8:369:LEU:HD12	14:T1:41:LEU:HD13	1.83	0.59
8:SE:3:GLU:OE2	8:SE:64:ARG:NH2	2.35	0.59
8:SK:28:HIS:HB2	8:SK:30:ILE:HD11	1.83	0.59
9:SN:131:GLN:OE1	9:SN:251:ARG:NH2	2.34	0.59
14:T1:244:SER:OG	14:T1:246:LYS:NZ	2.35	0.59
8:TC:139:HIS:O	8:TC:170:ALA:HA	2.02	0.59
9:TF:7:LEU:N	9:TF:134:GLN:O	2.34	0.59
9:TN:299:MET:SD	9:TN:301:ALA:N	2.75	0.59
30:U7:111:LEU:HD13	30:U7:115:ARG:HH21	1.68	0.59
30:U8:396:LEU:HD13	30:U8:416:LEU:HD13	1.84	0.59
9:UB:337:ASN:HB3	9:UB:340:TYR:HD2	1.67	0.59
8:UC:53:PHE:O	8:UC:64:ARG:NH1	2.36	0.59
8:UK:56:THR:HA	8:VK:285:GLN:HB2	1.85	0.59
30:V5:354:LYS:NZ	30:V5:358:GLN:OE1	2.34	0.59
8:VA:56:THR:HA	8:WA:285:GLN:HB2	1.83	0.59
9:VH:284:LEU:HG	9:VH:363:MET:HE2	1.85	0.59
9:VH:346:PRO:HD2	8:VI:398:MET:HE1	1.84	0.59
8:VK:320:ARG:HD3	8:VK:360:PRO:HG3	1.84	0.59
9:VN:322:SER:OG	8:VO:222:PRO:O	2.17	0.59
8:WM:31:GLN:HG2	8:WM:37:PRO:HD3	1.84	0.59
9:WN:156:ARG:HG3	9:WN:195:ASN:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WN:285:THR:HB	9:WN:287:PRO:HD2	1.84	0.59
36:Y2:58:MET:N	36:Y2:58:MET:SD	2.75	0.59
39:a:195:SER:HA	39:a:198:ILE:HD12	1.85	0.59
41:b5:220:SER:HB2	41:b5:314:MET:HE1	1.85	0.59
42:g:587:SER:OG	42:g:608:ASP:OD2	2.19	0.59
46:i2:1431:MET:SD	46:i2:1433:THR:OG1	2.57	0.59
46:i2:1447:ILE:HG21	46:i2:1514:PHE:CD1	2.37	0.59
45:m:50:LEU:HB2	45:m:53:VAL:HG23	1.83	0.59
2:1:765:ASP:O	9:IH:276:ARG:NH1	2.34	0.59
4:5:57:HIS:CD2	8:IC:45:GLY:H	2.21	0.59
8:AM:64:ARG:NH1	8:AM:129:CYS:SG	2.76	0.59
11:B1:94:GLN:HA	11:B1:94:GLN:NE2	2.17	0.59
11:B2:79:ASP:OD1	28:Q2:127:TYR:HB3	2.02	0.59
11:B3:369:HIS:HD2	11:B3:372:ARG:HE	1.49	0.59
9:BD:1:MET:N	9:BD:128:ASP:OD1	2.36	0.59
9:BH:282:ARG:NH2	9:BH:292:GLN:OE1	2.33	0.59
8:CC:203:MET:N	8:CC:203:MET:SD	2.75	0.59
9:DD:252:LYS:HG2	8:DE:100:ALA:HA	1.84	0.59
9:DJ:156:ARG:HG3	9:DJ:195:ASN:HB3	1.82	0.59
8:DK:53:PHE:HB3	8:DK:61:HIS:HB3	1.85	0.59
9:DL:1:MET:O	8:DM:96:LYS:NZ	2.25	0.59
9:DL:207:LEU:HB3	9:DL:225:LEU:HD22	1.83	0.59
8:DO:286:LEU:O	8:DO:373:ARG:NH1	2.36	0.59
8:EK:295:CYS:HB3	8:EK:377:MET:HE2	1.84	0.59
9:EL:165:ASN:HB3	9:EL:200:TYR:HE2	1.68	0.59
8:FI:211:ASP:N	8:FI:211:ASP:OD2	2.34	0.59
8:FK:345:ASP:N	8:FK:345:ASP:OD1	2.32	0.59
8:GC:264:ARG:NH1	8:GC:431:ASP:OD2	2.35	0.59
9:GD:245:GLN:O	8:GE:11:GLN:NE2	2.36	0.59
8:GE:252:LEU:HA	8:GE:255:PHE:CE2	2.37	0.59
9:GH:198:GLU:HA	9:GH:264:HIS:HB2	1.84	0.59
9:GN:1:MET:SD	9:GN:2:ARG:N	2.75	0.59
8:GO:1:MET:SD	8:GO:2:ARG:NH1	2.71	0.59
9:HB:267:MET:HE1	9:HB:373:ALA:HB3	1.85	0.59
8:HM:286:LEU:O	8:HM:373:ARG:NH1	2.34	0.59
9:HP:371:SER:O	9:HP:422:TYR:OH	2.20	0.59
8:IC:1:MET:SD	8:IC:2:ARG:NH1	2.75	0.59
9:ID:8:GLN:HB3	9:ID:65:LEU:HA	1.83	0.59
8:IE:68:VAL:HG12	8:IE:93:ILE:HB	1.84	0.59
9:IF:337:ASN:ND2	36:Y1:201:THR:OG1	2.35	0.59
8:IM:317:MET:HE1	8:IM:377:MET:HG3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IM:402:ARG:NH2	8:IM:415:GLU:OE1	2.35	0.59
9:IN:324:LYS:NZ	8:IO:214:ARG:HD2	2.17	0.59
19:J3:104:ASN:HA	9:OH:282:ARG:HH22	1.66	0.59
8:JG:265:ILE:HD11	8:JG:435:VAL:HG21	1.84	0.59
8:JM:286:LEU:O	8:JM:373:ARG:NH1	2.36	0.59
8:KI:412:GLY:HA2	41:b3:362:HIS:CE1	2.37	0.59
8:KM:36:MET:HE3	8:KM:61:HIS:CD2	2.37	0.59
9:KP:257:MET:HE3	9:KP:314:ALA:HB2	1.85	0.59
9:LJ:276:ARG:HG2	29:S:252:LEU:HD13	1.85	0.59
8:MC:9:VAL:HG11	8:MC:150:ALA:HB2	1.84	0.59
9:ML:279:GLN:HB3	23:P:70:HIS:CD2	2.38	0.59
9:MP:156:ARG:NH1	9:MP:197:ASP:OD1	2.35	0.59
9:NN:281:TYR:H	9:NN:282:ARG:HH11	1.50	0.59
24:O2:172:ILE:HD13	24:O2:183:ALA:HB1	1.83	0.59
8:OI:183:GLU:HA	8:OI:186:ASN:HD22	1.66	0.59
26:P1:59:ALA:HA	26:P1:64:LEU:HD12	1.84	0.59
9:PB:324:LYS:HG3	8:PC:222:PRO:HD2	1.83	0.59
9:PD:187:LEU:O	9:PD:191:GLN:NE2	2.35	0.59
9:PN:207:LEU:HG	9:PN:225:LEU:HG	1.83	0.59
28:Q3:169:LEU:HB2	12:S8:374:GLN:HE22	1.67	0.59
9:QD:51:TYR:HB3	9:QD:59:TYR:HB3	1.84	0.59
9:QF:48:ASN:O	9:QF:62:ARG:NH2	2.35	0.59
8:QG:254:GLU:HG2	9:QH:98:GLY:HA2	1.85	0.59
9:QH:249:ASP:H	9:QH:252:LYS:HB2	1.68	0.59
11:R4:293:LEU:HD22	11:R4:363:LEU:HD13	1.83	0.59
9:RF:54:ALA:HB3	9:RF:58:LYS:HB3	1.84	0.59
9:RF:165:ASN:ND2	9:RF:200:TYR:OH	2.34	0.59
9:RF:198:GLU:HA	9:RF:264:HIS:HB2	1.84	0.59
9:RJ:323:MET:N	9:RJ:323:MET:SD	2.76	0.59
9:RJ:324:LYS:HG3	8:RK:222:PRO:HD2	1.84	0.59
8:RM:276:ILE:HG22	8:RM:280:LYS:HB3	1.84	0.59
12:S2:115:HIS:HB3	12:S2:119:ARG:HH12	1.67	0.59
8:SA:5:ILE:HD13	8:SA:64:ARG:HB3	1.85	0.59
14:T1:170:ASP:HB3	14:T1:307:ARG:HH21	1.65	0.59
14:T1:350:LEU:HB2	14:T1:384:LEU:HD13	1.83	0.59
8:TC:21:TRP:HE1	8:TC:65:ALA:HB2	1.67	0.59
9:TH:324:LYS:HG3	8:TI:222:PRO:HD2	1.82	0.59
9:TJ:54:ALA:HA	9:UJ:283:ALA:HB2	1.85	0.59
9:TN:3:GLU:O	9:TN:131:GLN:NE2	2.29	0.59
8:UC:154:MET:HE1	8:UC:166:LYS:HG3	1.83	0.59
9:UH:7:LEU:N	9:UH:134:GLN:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UH:215:LEU:HD21	9:UH:273:LEU:HD22	1.84	0.59
9:UN:323:MET:SD	9:UN:323:MET:N	2.74	0.59
30:V1:124:MET:HA	30:V1:124:MET:HE2	1.85	0.59
30:V8:266:ASN:HB3	30:V8:270:LEU:HD23	1.85	0.59
9:VF:1:MET:SD	9:VF:2:ARG:N	2.75	0.59
8:VI:282:TYR:HE2	39:b:479:ARG:HD3	1.66	0.59
31:W:488:LYS:NZ	31:W:506:GLU:OE2	2.35	0.59
9:WH:10:GLY:O	9:WH:14:ASN:ND2	2.35	0.59
34:X7:180:PRO:O	34:X7:184:LEU:N	2.17	0.59
39:a:201:ALA:O	39:a:204:HIS:ND1	2.30	0.59
40:a3:24:LEU:H	40:a3:24:LEU:HD23	1.66	0.59
39:b:399:ASP:OD2	39:b:403:ARG:NH2	2.36	0.59
41:b4:402:GLN:NE2	41:b4:407:THR:O	2.35	0.59
39:c:373:ARG:HG3	39:c:376:GLN:CD	2.27	0.59
49:y:60:ARG:O	49:y:106:LYS:NZ	2.36	0.59
2:1:424:LYS:O	9:IB:359:ARG:NH2	2.35	0.59
1:7:200:THR:HG1	1:7:201:TRP:CD1	2.21	0.59
9:CD:299:MET:HA	9:CD:299:MET:HE3	1.84	0.59
8:CE:353:VAL:HG22	9:CF:177:ASP:HB2	1.84	0.59
8:CI:138:PHE:HZ	8:CI:235:VAL:HG11	1.65	0.59
14:D3:95:THR:HG22	14:D4:380:GLU:OE1	2.03	0.59
9:DH:27:GLU:O	9:DH:43:GLN:NE2	2.32	0.59
8:DQ:88:HIS:CE1	8:DQ:90:GLU:HB3	2.37	0.59
8:FA:70:LEU:HB3	8:FA:98:ASP:HA	1.83	0.59
8:FI:7:ILE:HD12	8:FI:137:ILE:HG12	1.84	0.59
9:FJ:284:LEU:HD23	9:FJ:362:LYS:HE3	1.84	0.59
9:FN:15:GLN:NE2	52:FN:502:GDP:N7	2.50	0.59
8:GC:6:SER:HG	8:GC:21:TRP:HZ2	1.50	0.59
9:GF:180:VAL:HG13	9:GF:184:ASN:HD21	1.67	0.59
9:GF:269:GLY:HA2	9:GF:300:MET:HE3	1.84	0.59
9:GL:238:THR:OG1	9:GL:318:ARG:NE	2.34	0.59
8:GM:116:ASP:OD1	8:GM:117:LEU:N	2.35	0.59
8:GM:298:PRO:HA	8:GM:301:GLN:HG2	1.83	0.59
9:HH:226:ASN:HD21	52:HH:502:GDP:HN1	1.49	0.59
9:HJ:290:THR:HA	9:HJ:293:MET:HB3	1.84	0.59
9:HL:242:PHE:HB3	9:HL:356:ILE:HD12	1.84	0.59
8:HM:298:PRO:HA	8:HM:301:GLN:HG2	1.85	0.59
8:IC:7:ILE:HB	8:IC:137:ILE:HG22	1.85	0.59
9:ID:86:ARG:NH2	9:ID:88:ASP:OD2	2.35	0.59
9:IF:97:ALA:HA	9:IF:103:LYS:HD2	1.83	0.59
9:IH:293:MET:HE3	9:IH:367:PHE:HD1	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IJ:272:PRO:HG3	9:IJ:364:SER:HA	1.83	0.59
8:IK:298:PRO:HB3	8:IK:307:PRO:HD2	1.84	0.59
9:IN:97:ALA:HA	9:IN:103:LYS:HD3	1.85	0.59
9:JD:328:GLU:O	9:JD:332:ASN:N	2.34	0.59
9:JL:359:ARG:HB2	13:K3:310:MET:HE1	1.84	0.59
8:JQ:9:VAL:HG22	8:JQ:68:VAL:HB	1.85	0.59
8:KK:186:ASN:O	8:KK:190:THR:OG1	2.18	0.59
8:MM:53:PHE:O	8:MM:64:ARG:NH1	2.35	0.59
9:ND:8:GLN:HG2	9:ND:14:ASN:HA	1.83	0.59
9:ND:54:ALA:HA	9:OD:283:ALA:HB2	1.83	0.59
9:ND:113:VAL:HG11	9:ND:150:LEU:HD23	1.85	0.59
8:NE:239:THR:OG1	8:NE:243:ARG:NH1	2.35	0.59
9:NH:210:ILE:HD11	9:NH:298:ASN:HA	1.85	0.59
8:NI:217:LEU:HD21	8:NI:367:ASP:HB2	1.84	0.59
9:NN:54:ALA:HA	9:ON:283:ALA:HB2	1.85	0.59
24:O4:27:SER:HA	24:O4:100:ARG:HD3	1.85	0.59
8:OA:326:LYS:HG3	9:OB:220:PRO:HD2	1.84	0.59
9:OF:306:ARG:NH2	36:Y4:124:ILE:HG22	2.18	0.59
8:OI:308:ARG:NH1	36:Y4:69:ARG:O	2.36	0.59
9:OJ:164:MET:SD	9:OJ:196:THR:HA	2.42	0.59
9:OL:329:GLN:NE2	36:Y5:234:PRO:O	2.35	0.59
8:OM:316:CYS:HB3	8:OM:378:LEU:HB2	1.84	0.59
27:P3:101:ARG:N	27:P3:117:TYR:HH	2.00	0.59
9:PH:86:ARG:NH1	9:PH:88:ASP:OD2	2.34	0.59
9:QB:52:ASN:OD1	9:QB:62:ARG:NH1	2.35	0.59
8:QG:36:MET:HE3	8:QG:37:PRO:HD2	1.85	0.59
8:QG:292:THR:HG21	8:QG:331:ALA:HB1	1.84	0.59
8:RO:104:ALA:HB2	8:RO:413:MET:HE2	1.85	0.59
12:S0:36:ARG:NH1	12:S0:43:THR:OG1	2.36	0.59
9:SH:361:LEU:HD12	9:SH:362:LYS:H	1.66	0.59
9:SJ:7:LEU:HD11	9:SJ:133:PHE:HB3	1.85	0.59
14:T1:386:MET:HB3	14:T1:389:ARG:HE	1.67	0.59
9:TB:318:ARG:HE	9:TB:358:PRO:HB3	1.68	0.59
9:TH:69:GLU:HG3	9:TH:71:GLY:H	1.68	0.59
9:UB:144:GLY:N	52:UB:502:GDP:O1B	2.26	0.59
9:UL:269:GLY:HA3	9:UL:367:PHE:HB3	1.84	0.59
9:UL:280:GLN:HG3	9:UL:281:TYR:HD1	1.67	0.59
8:UO:255:PHE:HB3	8:UO:352:LYS:HE2	1.84	0.59
30:V4:225:CYS:SG	30:V4:332:MET:HE2	2.42	0.59
30:V9:454:GLU:OE2	30:V9:458:LYS:HG2	2.03	0.59
9:VH:213:ARG:NE	9:VH:297:LYS:HE3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VI:311:LYS:HE3	8:VI:344:VAL:HG12	1.84	0.59
8:VK:298:PRO:HA	8:VK:301:GLN:HG2	1.84	0.59
9:WD:207:LEU:HD22	9:WD:225:LEU:HG	1.84	0.59
9:WD:323:MET:HE2	8:WE:224:TYR:HD1	1.67	0.59
8:WE:320:ARG:HD3	8:WE:360:PRO:HG3	1.84	0.59
9:WL:273:LEU:O	9:WL:292:GLN:NE2	2.34	0.59
39:b:429:ALA:O	39:b:433:HIS:ND1	2.35	0.59
41:b4:182:ARG:HD2	41:b4:185:ARG:HH11	1.68	0.59
46:i2:1358:ILE:O	46:i2:1394:PHE:N	2.36	0.59
1:0:81:PHE:HA	9:JP:276:ARG:HH22	1.68	0.59
8:AA:328:VAL:HG21	8:AA:355:ILE:HD11	1.85	0.59
8:AO:3:GLU:H	8:AO:133:GLN:HG2	1.68	0.59
11:B1:176:HIS:ND1	28:Q1:126:GLN:OE1	2.35	0.59
9:BB:283:ALA:HB1	17:H:230:TRP:HZ2	1.67	0.59
9:BL:211:CYS:HA	9:BL:215:LEU:HB2	1.84	0.59
12:C1:130:ASP:OD2	11:R2:40:GLN:NE2	2.35	0.59
8:CE:109:THR:HG23	8:CE:110:ILE:HG12	1.82	0.59
9:CF:2:ARG:HH21	9:CF:240:LEU:HD12	1.67	0.59
8:CG:172:TYR:N	8:CG:204:VAL:O	2.25	0.59
8:CO:264:ARG:NH1	8:CO:431:ASP:OD2	2.35	0.59
8:DK:50:ASN:O	8:DK:64:ARG:NH1	2.35	0.59
9:DL:48:ASN:O	9:DL:62:ARG:NH2	2.35	0.59
8:EA:317:MET:HB2	8:EA:353:VAL:HA	1.85	0.59
9:ED:276:ARG:NH2	25:U:382:PRO:O	2.36	0.59
8:EE:98:ASP:O	8:EE:105:ARG:NH1	2.36	0.59
8:EO:399:TYR:O	8:EO:402:ARG:NH1	2.34	0.59
9:FD:69:GLU:OE2	9:FD:72:THR:OG1	2.20	0.59
8:GC:60:LYS:HG2	8:HC:282:TYR:HE2	1.67	0.59
8:GM:136:LEU:HB3	8:GM:138:PHE:HE1	1.68	0.59
9:GN:344:TRP:H	9:GN:344:TRP:CD1	2.21	0.59
9:HB:180:VAL:O	9:HB:184:ASN:ND2	2.35	0.59
8:HI:292:THR:HG21	8:HI:331:ALA:HB1	1.82	0.59
8:HM:98:ASP:OD1	8:HM:100:ALA:N	2.29	0.59
9:HN:322:SER:OG	8:HO:222:PRO:O	2.20	0.59
9:HP:73:MET:SD	9:HP:73:MET:N	2.71	0.59
9:ID:346:PRO:O	8:IE:394:LYS:NZ	2.35	0.59
8:IE:252:LEU:HA	8:IE:255:PHE:CE1	2.38	0.59
9:IH:285:THR:C	9:IH:363:MET:HE1	2.27	0.59
9:IH:294:PHE:HB3	36:Y1:163:ILE:HG22	1.84	0.59
8:II:382:THR:HA	8:II:432:TYR:CE2	2.37	0.59
9:IL:322:SER:OG	8:IM:222:PRO:O	2.12	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IP:48:ASN:O	9:IP:62:ARG:NH2	2.36	0.59
8:JC:345:ASP:OD2	9:JD:390:ARG:NH2	2.36	0.59
9:JJ:19:LYS:HZ1	9:JJ:227:HIS:CE1	2.21	0.59
9:JP:1:MET:N	9:JP:128:ASP:OD1	2.34	0.59
9:KB:323:MET:HA	9:KB:326:VAL:HB	1.83	0.59
8:KE:276:ILE:HD11	8:KE:286:LEU:HD11	1.84	0.59
8:KI:423:GLU:HG2	44:h3:136:PHE:CZ	2.37	0.59
9:KJ:229:VAL:O	9:KJ:233:MET:HG2	2.03	0.59
9:KL:321:MET:HE2	9:KL:363:MET:HG3	1.85	0.59
9:LL:249:ASP:OD2	9:LL:251:ARG:N	2.35	0.59
22:M3:159:LYS:O	22:M3:163:ASN:ND2	2.34	0.59
9:MP:380:ARG:NH1	45:i1:6:SER:O	2.33	0.59
8:NE:326:LYS:NZ	9:NF:208:TYR:O	2.35	0.59
9:NJ:302:ALA:HB3	9:NJ:377:LEU:HD11	1.85	0.59
8:NM:154:MET:HE3	8:NM:158:SER:HB2	1.83	0.59
9:NN:48:ASN:O	9:NN:62:ARG:NH2	2.35	0.59
9:OH:87:PRO:HD3	9:PH:281:TYR:CD2	2.37	0.59
8:OI:147:SER:OG	8:OI:190:THR:OG1	2.17	0.59
9:OJ:392:LYS:HE2	9:OJ:395:LEU:HB3	1.84	0.59
8:PM:150:ALA:O	8:PM:154:MET:HG3	2.03	0.59
8:PM:312:TYR:HE1	8:PM:379:SER:HB2	1.66	0.59
28:Q2:46:ALA:HA	28:Q2:67:LEU:HD21	1.85	0.59
28:Q3:163:ARG:CZ	12:S7:129:GLN:HE22	2.14	0.59
9:QJ:69:GLU:HG2	9:QJ:71:GLY:H	1.67	0.59
8:QM:345:ASP:OD2	9:QN:390:ARG:NH2	2.35	0.59
9:QP:329:GLN:HB2	9:QP:330:MET:HE2	1.83	0.59
9:RD:7:LEU:HB2	9:RD:135:LEU:HB3	1.85	0.59
8:RM:174:ALA:HB1	8:RM:207:GLU:OE1	2.03	0.59
9:RP:130:LEU:O	9:RP:162:ARG:NH1	2.34	0.59
12:S2:408:ASN:OD1	12:S2:408:ASN:N	2.36	0.59
9:SB:361:LEU:HD12	9:SB:362:LYS:H	1.67	0.59
8:SK:53:PHE:O	8:SK:64:ARG:NH1	2.35	0.59
14:T1:379:SER:HA	14:T1:382:GLU:HG3	1.84	0.59
14:T5:379:SER:HA	14:T5:382:GLU:OE2	2.03	0.59
9:TB:358:PRO:HG2	9:TB:361:LEU:HB2	1.84	0.59
9:TD:284:LEU:HD21	9:TD:363:MET:HB2	1.85	0.59
9:TD:337:ASN:HB3	9:TD:340:TYR:HD2	1.67	0.59
8:TE:53:PHE:HB3	8:TE:61:HIS:HB3	1.85	0.59
30:U4:73:ARG:HG2	30:U4:74:ARG:HG2	1.83	0.59
30:U6:110:ARG:NH1	30:U6:114:SER:OG	2.35	0.59
30:U6:160:LEU:HD11	30:U6:247:GLN:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UA:402:ARG:NH2	8:UA:415:GLU:OE2	2.36	0.59
8:UE:220:GLU:HG2	8:UE:221:ARG:HG2	1.85	0.59
9:VB:323:MET:H	9:VB:323:MET:HE3	1.67	0.59
8:VE:292:THR:HG21	8:VE:331:ALA:HB1	1.84	0.59
8:VM:65:ALA:O	8:VM:91:GLN:NE2	2.35	0.59
9:VN:169:VAL:HA	9:VN:202:ILE:HG23	1.84	0.59
31:W:441:ILE:HD12	31:W:519:LEU:C	2.28	0.59
9:WP:165:ASN:HB2	9:WP:200:TYR:HE2	1.68	0.59
34:X8:206:VAL:HB	34:X8:234:LEU:HD21	1.84	0.59
35:XA:93:VAL:HA	35:XA:151:THR:HA	1.85	0.59
35:XF:74:PRO:HD2	35:XF:169:ASP:HA	1.84	0.59
36:Y2:244:ASP:N	36:Y2:244:ASP:OD1	2.35	0.59
37:YA:144:ARG:O	37:YA:146:ARG:NH1	2.36	0.59
39:a:194:MET:HA	39:a:197:ILE:HD12	1.83	0.59
42:e:144:LYS:HG2	42:e:146:ASP:HB3	1.83	0.59
42:g:486:ILE:HB	42:g:488:TRP:NE1	2.18	0.59
44:h4:83:PRO:HD2	44:h4:98:HIS:HB3	1.84	0.59
46:i3:1401:GLN:HG3	46:i3:1437:TYR:CD2	2.38	0.59
47:p:386:GLU:OE2	47:p:389:ARG:NH1	2.36	0.59
2:2:365:PHE:CD1	4:6:351:ILE:HG12	2.38	0.59
4:5:289:ALA:HB1	4:5:390:PHE:CE1	2.36	0.59
4:6:57:HIS:HA	4:6:65:PHE:H	1.68	0.59
8:AC:188:ILE:O	8:AC:191:THR:OG1	2.21	0.59
9:AF:198:GLU:HB2	9:AF:266:PHE:HE1	1.68	0.59
9:AL:8:GLN:HG2	9:AL:14:ASN:HA	1.84	0.59
9:AN:372:THR:HA	9:AN:422:TYR:HE2	1.67	0.59
8:BC:50:ASN:O	8:BC:64:ARG:NH1	2.36	0.59
9:BH:74:ASP:O	31:X:322:LYS:NZ	2.34	0.59
8:BI:298:PRO:HG3	8:BI:308:ARG:HH21	1.67	0.59
8:BO:88:HIS:CD2	8:CO:283:HIS:HB3	2.38	0.59
8:BO:326:LYS:HD3	9:BP:212:PHE:CZ	2.37	0.59
8:CO:194:THR:O	8:CO:266:HIS:NE2	2.36	0.59
14:D3:222:TYR:OH	8:LK:37:PRO:O	2.16	0.59
9:DD:178:THR:HB	9:DD:181:GLU:HG3	1.84	0.59
8:DK:212:ILE:HD12	8:DK:215:ARG:HD3	1.85	0.59
9:DN:330:MET:HB3	9:DN:349:VAL:HG11	1.85	0.59
15:E:108:LEU:HD11	15:E:110:ILE:HG12	1.85	0.59
9:EH:73:MET:HE3	9:EH:92:PHE:HB3	1.85	0.59
9:FD:48:ASN:O	9:FD:62:ARG:NH2	2.36	0.59
9:FD:118:ASP:OD1	9:FD:121:ARG:NH2	2.35	0.59
9:FN:276:ARG:HB2	31:Z:474:GLY:HA3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GE:271:THR:HA	8:GE:302:MET:HE1	1.84	0.59
9:GL:214:THR:OG1	9:GL:297:LYS:NZ	2.36	0.59
8:HA:70:LEU:HB3	8:HA:98:ASP:HA	1.84	0.59
8:HA:225:THR:OG1	8:HA:229:ARG:NH2	2.36	0.59
9:HD:6:HIS:CD2	9:HD:21:TRP:HE1	2.20	0.59
8:HI:42:ILE:HG22	8:HI:44:GLY:H	1.68	0.59
9:HL:237:THR:HG22	9:HL:250:LEU:HD21	1.84	0.59
9:HN:323:MET:HA	9:HN:326:VAL:HB	1.84	0.59
9:IH:86:ARG:HH11	8:JI:283:HIS:HB2	1.67	0.59
8:II:292:THR:HG21	8:II:331:ALA:HB1	1.83	0.59
9:JN:198:GLU:HA	9:JN:264:HIS:HB2	1.85	0.59
8:JO:121:ARG:HA	8:JO:124:LYS:HZ3	1.67	0.59
8:JO:234:ILE:HD11	8:JO:272:TYR:HB2	1.84	0.59
9:LB:54:ALA:HB3	9:LB:58:LYS:HB3	1.83	0.59
9:LB:227:HIS:NE2	29:R:138:MET:SD	2.76	0.59
8:LE:320:ARG:HD3	8:LE:360:PRO:HG3	1.84	0.59
8:LE:416:GLY:HA2	43:i:75:LYS:HE2	1.83	0.59
9:MF:107:THR:HG23	9:MF:108:GLU:HG2	1.85	0.59
8:NE:325:PRO:O	8:NE:329:ASN:ND2	2.35	0.59
8:NG:56:THR:HA	8:OG:285:GLN:HB2	1.83	0.59
9:NJ:117:LEU:HD11	9:NJ:154:LYS:HD3	1.84	0.59
24:O2:72:VAL:HG11	24:O2:80:LEU:HD21	1.84	0.59
9:OD:67:ASP:HA	9:OD:143:THR:HG21	1.83	0.59
9:OJ:249:ASP:H	9:OJ:252:LYS:HB2	1.67	0.59
8:OM:297:GLU:OE1	8:OM:300:ASN:ND2	2.36	0.59
27:P6:158:CYS:O	17:P9:56:LEU:HD13	2.01	0.59
9:PB:236:VAL:HG23	9:PB:237:THR:HG23	1.84	0.59
9:PH:326:VAL:O	9:PH:329:GLN:NE2	2.34	0.59
8:PK:191:THR:HG21	8:PK:425:LEU:HD11	1.85	0.59
8:PM:286:LEU:O	8:PM:373:ARG:NH1	2.36	0.59
8:QI:317:MET:N	8:QI:317:MET:SD	2.76	0.59
9:QJ:51:TYR:HB3	9:QJ:59:TYR:HB3	1.83	0.59
8:QK:147:SER:OG	8:QK:190:THR:OG1	2.21	0.59
9:QL:209:ASP:OD1	9:QL:213:ARG:NE	2.32	0.59
8:QO:167:LEU:HB3	8:QO:202:PHE:CZ	2.37	0.59
9:RD:237:THR:HG22	9:RD:250:LEU:HD21	1.84	0.59
8:RG:107:HIS:HA	8:RG:152:LEU:HD23	1.85	0.59
8:RM:147:SER:OG	8:RM:190:THR:OG1	2.21	0.59
9:RN:258:VAL:HB	8:RO:407:TRP:HZ2	1.68	0.59
9:RP:406:MET:SD	9:RP:409:THR:OG1	2.60	0.59
12:S3:257:ASP:OD2	12:S3:307:ASN:ND2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S3:282:SER:C	12:S4:394:LYS:HE2	2.28	0.59
9:TD:252:LYS:NZ	50:TE:501:GTP:O3G	2.36	0.59
9:TF:136:THR:HG22	9:TF:167:PHE:HB2	1.84	0.59
30:U4:173:LEU:HD22	30:U4:318:ARG:HG2	1.85	0.59
30:U5:210:ASN:O	30:U5:214:ASN:ND2	2.36	0.59
9:UB:143:THR:HG23	9:UB:147:MET:HG2	1.85	0.59
8:UC:107:HIS:HA	8:UC:152:LEU:HD23	1.83	0.59
9:UH:267:MET:HE2	9:UH:374:ILE:HD13	1.85	0.59
8:UI:53:PHE:O	8:UI:64:ARG:NH1	2.36	0.59
9:UL:2:ARG:NH2	8:UM:98:ASP:OD1	2.36	0.59
30:V0:396:LEU:HD21	30:V0:416:LEU:HB3	1.85	0.59
30:V0:449:SER:O	30:V0:453:HIS:ND1	2.36	0.59
9:VJ:83:GLN:O	9:WJ:281:TYR:OH	2.20	0.59
9:WH:282:ARG:NH2	9:WH:292:GLN:OE1	2.36	0.59
8:WM:271:THR:HB	8:WM:377:MET:HB3	1.85	0.59
35:XE:85:LYS:HB2	35:XE:159:ASN:HB3	1.84	0.59
41:b2:118:ARG:NH2	44:h1:112:GLU:OE1	2.35	0.59
41:b2:205:GLU:O	41:b2:209:MET:HG3	2.02	0.59
41:b5:150:GLN:HG3	41:b5:304:LEU:HD22	1.84	0.59
42:e:433:ILE:HG13	42:e:443:VAL:HG13	1.85	0.59
2:1:655:LYS:HB3	2:1:658:GLU:HB2	1.84	0.59
2:2:481:MET:N	2:2:481:MET:SD	2.69	0.59
4:5:42:ARG:HH12	4:5:59:VAL:HG11	1.68	0.59
7:A2:336:ARG:NE	7:A3:58:ASP:OD2	2.34	0.59
8:AI:119:LEU:HD11	8:AI:156:ARG:HG2	1.85	0.59
9:BJ:234:SER:O	9:BJ:241:ARG:NH2	2.36	0.59
9:BL:256:ASN:HD22	9:BL:350:LYS:HD3	1.68	0.59
9:BN:323:MET:HA	9:BN:326:VAL:HB	1.84	0.59
8:CO:320:ARG:HD3	8:CO:360:PRO:HG3	1.83	0.59
9:CP:64:VAL:HG21	9:CP:120:VAL:HG12	1.85	0.59
14:D4:217:ASP:OD2	14:D5:365:ASN:ND2	2.36	0.59
8:DE:320:ARG:HD3	8:DE:360:PRO:HG3	1.84	0.59
8:DO:360:PRO:O	8:DO:370:LYS:NZ	2.34	0.59
8:EA:322:ASP:OD2	8:EA:373:ARG:NH2	2.36	0.59
9:EB:285:THR:HB	9:EB:287:PRO:HD2	1.84	0.59
9:FB:309:ARG:H	9:FB:372:THR:HB	1.66	0.59
9:FF:51:TYR:HB3	9:FF:59:TYR:HB3	1.84	0.59
8:FI:264:ARG:HH12	8:FI:428:LEU:HD22	1.67	0.59
9:FL:8:GLN:HE21	9:FL:14:ASN:HA	1.68	0.59
9:GB:60:VAL:HG11	9:HB:281:TYR:HB3	1.85	0.59
9:GF:70:PRO:HA	9:GF:73:MET:HE2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HI:50:ASN:O	8:HI:64:ARG:NH1	2.36	0.59
8:IA:296:PHE:HB3	36:Y0:69:ARG:HH21	1.68	0.59
9:IB:171:PRO:O	9:IB:380:ARG:NH1	2.22	0.59
9:ID:8:GLN:HE21	9:ID:14:ASN:HA	1.67	0.59
8:IG:196:GLU:OE2	8:IG:197:HIS:ND1	2.35	0.59
8:IO:102:ASN:HB3	8:IO:105:ARG:HB2	1.85	0.59
19:J1:188:GLN:O	19:J1:192:VAL:HG23	2.02	0.59
19:J4:235:LEU:HD12	8:LO:393:HIS:HB2	1.85	0.59
8:JG:51:THR:HG21	8:JG:243:ARG:HG2	1.84	0.59
8:KM:317:MET:HB3	8:KM:353:VAL:HA	1.84	0.59
9:LN:156:ARG:NH1	9:LN:197:ASP:OD1	2.33	0.59
9:MB:198:GLU:HB3	9:MB:266:PHE:HE2	1.68	0.59
9:MD:317:PHE:HD2	9:MD:321:MET:HE1	1.68	0.59
9:MN:130:LEU:O	9:MN:162:ARG:NH1	2.33	0.59
9:MP:2:ARG:HE	9:MP:46:ARG:HH12	1.50	0.59
9:NF:51:TYR:O	9:NF:62:ARG:NH1	2.35	0.59
8:NG:183:GLU:HA	8:NG:186:ASN:ND2	2.17	0.59
9:NL:161:ASP:OD2	9:NL:162:ARG:NH1	2.36	0.59
9:NN:114:ASP:N	9:NN:114:ASP:OD1	2.36	0.59
25:O5:432:GLU:OE1	25:O5:432:GLU:N	2.31	0.59
25:O5:480:ASP:N	25:O5:480:ASP:OD2	2.36	0.59
8:OA:239:THR:OG1	8:OA:243:ARG:NH1	2.36	0.59
9:OB:55:THR:HG23	9:PB:283:ALA:HA	1.85	0.59
8:OC:70:LEU:HB2	8:OC:98:ASP:HA	1.85	0.59
9:OJ:150:LEU:HG	9:OJ:154:LYS:HE2	1.85	0.59
9:OP:8:GLN:HB3	9:OP:65:LEU:HA	1.84	0.59
9:OP:253:LEU:HD13	9:OP:257:MET:CE	2.30	0.59
27:P7:178:PHE:CE2	11:R4:124:ARG:HD3	2.38	0.59
8:PE:264:ARG:HH12	8:PE:428:LEU:HA	1.67	0.59
9:PF:106:TYR:CD2	9:PF:403:MET:HE2	2.37	0.59
8:QG:167:LEU:HD21	8:QG:256:GLN:HE21	1.68	0.59
8:QI:385:ALA:HA	8:QI:388:TRP:HD1	1.68	0.59
8:RE:339:ARG:HE	8:RE:339:ARG:C	2.11	0.59
12:S3:312:GLN:HG2	12:S3:315:ARG:HH21	1.68	0.59
12:S6:212:HIS:ND1	12:S6:216:GLU:OE1	2.36	0.59
12:S7:382:ILE:HG21	12:S7:438:LEU:HB2	1.84	0.59
12:S9:205:ARG:HE	12:S9:210:LEU:HA	1.67	0.59
8:SC:1:MET:SD	8:SC:2:ARG:N	2.76	0.59
8:SC:186:ASN:O	8:SC:190:THR:OG1	2.16	0.59
9:SF:73:MET:N	9:SF:73:MET:SD	2.76	0.59
9:SL:299:MET:SD	9:SL:299:MET:N	2.75	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SN:284:LEU:HD12	9:SN:362:LYS:HD3	1.84	0.59
30:U7:127:LYS:HZ3	30:U8:430:LEU:HD21	1.68	0.59
9:UF:8:GLN:HE21	9:UF:14:ASN:HA	1.68	0.59
9:UF:77:ARG:NH1	9:UF:82:GLY:O	2.35	0.59
8:UG:353:VAL:N	9:UH:177:ASP:OD1	2.35	0.59
30:V6:94:ASP:HA	30:V6:97:ARG:HG3	1.85	0.59
8:VC:123:ARG:NH2	8:VC:161:TYR:OH	2.36	0.59
9:WD:213:ARG:HB2	9:WD:297:LYS:HZ3	1.68	0.59
8:WE:264:ARG:NH1	8:WE:431:ASP:OD2	2.36	0.59
8:WG:1:MET:N	8:WG:130:THR:OG1	2.36	0.59
9:WL:130:LEU:O	9:WL:162:ARG:NH1	2.33	0.59
33:X4:124:HIS:HB3	33:X4:127:GLU:HG2	1.85	0.59
34:X8:249:GLN:NE2	34:X8:251:SER:O	2.35	0.59
31:Z:435:ARG:H	31:Z:529:THR:HG21	1.68	0.59
39:c:355:GLU:O	39:c:358:GLN:HG3	2.02	0.59
42:e:164:VAL:HG12	42:e:176:THR:HG22	1.84	0.59
48:s:149:HIS:ND1	48:s:155:GLY:HA3	2.18	0.59
4:6:104:ARG:NH1	8:IK:39:ASP:OD2	2.35	0.59
7:A2:204:VAL:O	7:A2:206:ARG:NH2	2.36	0.59
7:A4:208:GLU:N	7:A4:208:GLU:OE2	2.36	0.59
8:AK:142:GLY:O	8:AK:186:ASN:ND2	2.36	0.59
8:BI:50:ASN:O	8:BI:64:ARG:NH1	2.35	0.59
9:BJ:362:LYS:HZ1	17:L:230:TRP:CD1	2.20	0.59
8:BO:286:LEU:O	8:BO:373:ARG:NH1	2.36	0.59
10:C:328:GLN:O	10:C:332:ILE:HG12	2.02	0.59
12:C0:123:ASP:OD2	12:C1:437:ARG:NH1	2.36	0.59
9:CB:267:MET:HB3	9:CB:299:MET:HE2	1.85	0.59
14:D0:63:ARG:NH1	14:D1:415:ASP:OD2	2.35	0.59
14:D2:169:ARG:HD2	12:S2:90:PHE:HE1	1.68	0.59
8:DG:218:ASP:OD2	8:DG:280:LYS:NZ	2.36	0.59
9:DL:403:MET:SD	9:DL:403:MET:N	2.75	0.59
8:DM:226:ASN:ND2	8:DM:367:ASP:OD1	2.34	0.59
9:EH:10:GLY:O	9:EH:14:ASN:ND2	2.35	0.59
8:EK:203:MET:N	8:EK:203:MET:SD	2.76	0.59
9:EL:274:THR:HG21	9:EL:282:ARG:HD3	1.84	0.59
9:EN:26:ASP:O	9:EN:359:ARG:NH1	2.35	0.59
8:FC:279:GLU:HG2	17:Z2:237:ARG:HG3	1.84	0.59
8:FE:116:ASP:N	8:FE:116:ASP:OD1	2.35	0.59
8:FM:302:MET:HE2	8:FM:302:MET:H	1.68	0.59
8:FO:70:LEU:HB3	8:FO:98:ASP:HA	1.85	0.59
8:FO:124:LYS:NZ	8:GO:297:GLU:OE2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GE:30:ILE:HG13	8:GE:36:MET:HE1	1.85	0.59
9:GH:8:GLN:HE21	9:GH:14:ASN:HA	1.67	0.59
9:GH:323:MET:HE1	8:GI:224:TYR:CG	2.37	0.59
8:GI:53:PHE:HB3	8:GI:61:HIS:HB3	1.85	0.59
9:GL:271:ALA:O	9:GL:292:GLN:NE2	2.32	0.59
8:HK:311:LYS:HA	8:HK:342:GLN:HE21	1.67	0.59
8:IA:91:GLN:HB3	8:IA:121:ARG:HD3	1.85	0.59
8:IA:336:LYS:HE2	8:IA:351:PHE:HE2	1.68	0.59
8:IC:315:CYS:HB3	8:IC:377:MET:HE1	1.85	0.59
8:IK:308:ARG:NH2	36:Y1:105:ASP:HA	2.18	0.59
8:IK:431:ASP:HA	8:IK:434:GLU:HG2	1.85	0.59
8:IM:133:GLN:O	8:IM:165:SER:OG	2.21	0.59
9:JD:324:LYS:HG3	8:JE:210:TYR:CD1	2.38	0.59
9:KB:7:LEU:HD12	9:KB:8:GLN:H	1.68	0.59
9:KH:139:LEU:HA	9:KH:145:SER:HB2	1.84	0.59
9:KH:270:PHE:O	9:KH:298:ASN:ND2	2.34	0.59
9:KJ:48:ASN:O	9:KJ:62:ARG:NH2	2.36	0.59
8:LE:264:ARG:HD2	43:i:87:ALA:HA	1.84	0.59
9:LN:113:VAL:HG21	9:LN:154:LYS:NZ	2.17	0.59
8:LO:53:PHE:O	8:LO:64:ARG:NH1	2.35	0.59
9:LP:165:ASN:HD21	9:LP:250:LEU:HD13	1.68	0.59
8:MI:183:GLU:HG2	8:MI:184:PRO:HD3	1.85	0.59
8:MO:7:ILE:HD13	8:MO:137:ILE:HG13	1.85	0.59
8:NI:27:GLU:OE2	8:NI:243:ARG:NH2	2.34	0.59
8:NO:320:ARG:HD3	8:NO:360:PRO:HG3	1.84	0.59
25:O6:44:THR:HG22	25:O6:54:TYR:HE1	1.68	0.59
8:OA:195:LEU:HD13	8:OA:428:LEU:HD13	1.85	0.59
9:OD:221:THR:N	9:OD:224:ASP:OD2	2.35	0.59
9:OH:358:PRO:HG2	9:OH:361:LEU:HB3	1.84	0.59
9:ON:376:GLU:OE2	9:ON:376:GLU:N	2.35	0.59
8:PC:7:ILE:HD11	8:PC:135:PHE:HB3	1.85	0.59
9:PN:282:ARG:NH1	9:PN:283:ALA:O	2.36	0.59
9:QD:284:LEU:HD11	9:QD:363:MET:HB2	1.84	0.59
8:QG:302:MET:SD	8:QG:302:MET:N	2.76	0.59
8:QI:75:VAL:HG12	8:QI:79:ARG:HE	1.67	0.59
9:QN:68:LEU:HG	9:QN:96:GLY:HA2	1.85	0.59
9:QP:414:ASN:C	9:QP:414:ASN:HD22	2.11	0.59
11:R1:121:GLU:OE2	11:R2:7:LYS:N	2.36	0.59
9:RL:262:ARG:HH21	9:RL:418:LEU:HD13	1.68	0.59
8:RM:50:ASN:O	8:RM:64:ARG:NH1	2.36	0.59
8:RM:320:ARG:HD3	8:RM:360:PRO:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S3:80:MET:N	12:S3:80:MET:SD	2.76	0.59
9:SH:313:VAL:HB	9:SH:349:VAL:HA	1.83	0.59
9:SL:284:LEU:HD12	9:SL:362:LYS:HD3	1.84	0.59
9:SL:392:LYS:HB3	9:SL:395:LEU:HD22	1.85	0.59
8:TE:319:TYR:CE2	8:TE:328:VAL:HG22	2.38	0.59
9:TH:44:LEU:HD22	9:TH:47:ILE:HD12	1.83	0.59
8:TI:32:PRO:HG2	47:p:330:LEU:HD13	1.85	0.59
8:TI:292:THR:HG21	8:TI:331:ALA:HB1	1.84	0.59
9:TJ:299:MET:SD	9:TJ:299:MET:N	2.64	0.59
9:TN:167:PHE:CZ	9:TN:233:MET:HB3	2.37	0.59
25:U:346:ASP:OD1	25:U:352:ARG:NH2	2.36	0.59
30:U3:85:ALA:HB2	31:Y:573:HIS:CD2	2.38	0.59
8:UK:322:ASP:OD1	39:c:196:LYS:NZ	2.35	0.59
9:UL:372:THR:HA	9:UL:422:TYR:HE1	1.67	0.59
30:V4:119:ASP:OD1	30:V4:122:ARG:NH1	2.36	0.59
30:V7:399:ARG:HH12	30:V7:412:PRO:HB2	1.67	0.59
8:VO:345:ASP:N	8:VO:345:ASP:OD1	2.36	0.59
9:WD:323:MET:SD	9:WD:324:LYS:NZ	2.76	0.59
9:WP:35:THR:OG1	9:WP:37:HIS:NE2	2.36	0.59
35:XB:170:ARG:O	35:XB:170:ARG:NH1	2.36	0.59
35:XH:1:MET:HE1	35:XH:62:PRO:HB3	1.85	0.59
31:Z:336:GLN:NE2	40:a4:66:LEU:O	2.36	0.59
39:a:245:ASP:O	39:a:249:LYS:HG2	2.02	0.59
39:a:292:ARG:NH1	39:a:292:ARG:O	2.36	0.59
41:b5:253:ASP:OD1	41:b5:254:LYS:N	2.36	0.59
42:g:14:LEU:HD21	42:g:615:LYS:HB3	1.85	0.59
46:i4:1383:ILE:O	46:i4:1387:ASP:HB2	2.02	0.59
48:s:136:GLU:N	48:s:136:GLU:OE2	2.36	0.59
7:A0:336:ARG:CD	7:A0:339:LYS:HE3	2.32	0.58
8:AC:264:ARG:HH11	35:XB:115:LYS:HZ3	1.51	0.58
9:AD:268:PRO:HA	9:AD:367:PHE:O	2.03	0.58
8:AK:221:ARG:HH12	22:M3:35:SER:HA	1.66	0.58
9:AL:133:PHE:HD2	9:AL:155:ILE:HD12	1.68	0.58
11:B4:303:ASP:O	11:B4:307:LYS:NZ	2.36	0.58
9:BB:256:ASN:HD21	8:BC:181:VAL:H	1.50	0.58
8:BG:322:ASP:O	8:BG:373:ARG:NH2	2.35	0.58
9:BL:280:GLN:NE2	31:Y:87:ASP:OD2	2.36	0.58
8:BO:188:ILE:O	8:BO:191:THR:OG1	2.21	0.58
12:C3:119:ARG:HD3	24:O4:96:MET:CE	2.32	0.58
8:CC:286:LEU:O	8:CC:373:ARG:NH1	2.36	0.58
9:CL:381:ILE:O	9:CL:385:PHE:N	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:73:MET:SD	9:CN:92:PHE:HB3	2.43	0.58
8:EC:345:ASP:OD1	8:EC:345:ASP:N	2.34	0.58
9:EJ:31:ASP:OD1	9:EJ:35:THR:N	2.33	0.58
9:EJ:204:ASN:OD1	52:EJ:502:GDP:N2	2.34	0.58
8:EK:56:THR:HA	8:FK:285:GLN:HB2	1.84	0.58
9:EL:8:GLN:HE21	9:EL:14:ASN:HA	1.67	0.58
9:EL:325:GLU:H	8:EM:221:ARG:HH22	1.50	0.58
9:FF:83:GLN:O	9:GF:281:TYR:OH	2.21	0.58
8:FG:101:ASN:ND2	8:FG:142:GLY:O	2.36	0.58
9:FN:285:THR:HB	9:FN:287:PRO:HD2	1.84	0.58
9:GF:323:MET:HE1	8:GG:224:TYR:CG	2.38	0.58
8:GG:56:THR:HG23	8:GG:58:ALA:H	1.66	0.58
9:GJ:180:VAL:HG13	9:GJ:184:ASN:HD21	1.68	0.58
9:GL:301:ALA:O	36:Y2:92:ARG:NH2	2.35	0.58
17:H:41:GLN:NE2	17:H:45:ASP:OD2	2.36	0.58
8:HC:157:LEU:O	8:HC:166:LYS:NZ	2.36	0.58
8:HK:257:THR:HA	9:HL:397:TRP:CZ3	2.37	0.58
8:HM:11:GLN:HA	8:HM:74:VAL:HG11	1.85	0.58
8:HO:348:PRO:HD2	9:HP:388:MET:HE1	1.85	0.58
9:ID:290:THR:HA	9:ID:293:MET:HG3	1.83	0.58
9:IF:138:SER:HA	9:IF:169:VAL:H	1.68	0.58
8:IK:195:LEU:HD21	8:IK:264:ARG:HE	1.68	0.58
9:JD:130:LEU:O	9:JD:162:ARG:NH1	2.36	0.58
9:JF:114:ASP:OD1	9:JF:115:SER:N	2.36	0.58
8:JI:125:LEU:HA	8:JI:128:LEU:HD23	1.85	0.58
8:JM:54:SER:OG	8:JM:62:VAL:O	2.20	0.58
17:K:295:ASN:OD1	17:K:306:ARG:NH2	2.34	0.58
9:KL:257:MET:SD	9:KL:312:THR:OG1	2.54	0.58
9:LB:268:PRO:HG2	9:LB:300:MET:HG3	1.85	0.58
8:LC:190:THR:O	8:LC:194:THR:OG1	2.20	0.58
9:LH:198:GLU:HB3	9:LH:266:PHE:HE2	1.68	0.58
8:ME:395:PHE:CD2	8:ME:422:ARG:HD3	2.38	0.58
8:NE:31:GLN:HG2	8:NE:37:PRO:HD3	1.83	0.58
9:NF:230:SER:HA	9:NF:233:MET:HE3	1.85	0.58
9:NN:67:ASP:HA	9:NN:143:THR:HG21	1.85	0.58
8:NO:311:LYS:H	8:NO:382:THR:HG22	1.67	0.58
23:O:17:GLU:O	23:O:21:ASN:ND2	2.36	0.58
8:OA:167:LEU:HB2	8:OA:202:PHE:HE2	1.68	0.58
9:OB:119:VAL:HA	9:OB:122:LYS:HD3	1.83	0.58
9:ON:221:THR:OG1	9:ON:222:TYR:N	2.36	0.58
27:P6:163:ARG:NH1	30:U3:319:GLU:OE1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QP:260:PHE:HB3	9:QP:262:ARG:NH1	2.17	0.58
29:R:73:ASP:HA	29:R:76:MET:HE3	1.84	0.58
8:RO:50:ASN:O	8:RO:64:ARG:NH1	2.36	0.58
8:RO:317:MET:HE3	8:RO:351:PHE:HD1	1.67	0.58
12:S1:356:ASP:OD1	12:S1:356:ASP:N	2.35	0.58
12:S6:99:TRP:HA	12:S7:208:ILE:HD11	1.85	0.58
8:SG:171:ILE:HD13	8:SG:204:VAL:HG23	1.85	0.58
14:T0:63:ARG:NH1	14:T1:411:SER:OG	2.36	0.58
14:T0:71:ARG:NH2	14:T1:328:GLU:OE2	2.36	0.58
9:TH:48:ASN:O	9:TH:62:ARG:NH2	2.36	0.58
8:UA:352:LYS:HE3	9:UB:179:VAL:HG23	1.85	0.58
9:UB:322:SER:O	8:UC:221:ARG:NH2	2.33	0.58
9:UD:363:MET:HE3	9:UD:364:SER:H	1.67	0.58
8:UI:285:GLN:HE22	8:UI:287:SER:HB3	1.67	0.58
30:V4:180:ALA:O	30:V4:184:VAL:HG12	2.02	0.58
8:VE:132:LEU:O	8:VE:164:LYS:NZ	2.36	0.58
8:VM:50:ASN:O	8:VM:64:ARG:NH1	2.36	0.58
8:WE:53:PHE:HB3	8:WE:61:HIS:HB3	1.85	0.58
8:WE:172:TYR:HB2	8:WE:203:MET:HB3	1.85	0.58
9:WJ:12:CYS:O	9:WJ:16:ILE:HG12	2.03	0.58
9:WJ:267:MET:HB3	9:WJ:299:MET:HE1	1.85	0.58
9:WN:313:VAL:HG12	9:WN:349:VAL:HG13	1.85	0.58
34:X6:181:GLU:N	34:X6:181:GLU:OE1	2.30	0.58
36:Y4:143:MET:SD	36:Y4:144:LEU:N	2.76	0.58
39:c:198:ILE:HG13	39:d:525:LEU:HD13	1.85	0.58
39:d:451:ARG:HH22	39:d:454:ARG:HD3	1.67	0.58
4:j1:123:SER:OG	4:j1:124:LYS:NZ	2.36	0.58
47:p:443:MET:HE3	47:p:443:MET:CA	2.31	0.58
9:AD:177:ASP:N	9:AD:177:ASP:OD1	2.34	0.58
9:AL:144:GLY:N	52:AL:502:GDP:O1B	2.33	0.58
10:B:238:LYS:HG3	10:B:242:GLN:HE22	1.67	0.58
8:CC:278:ALA:HA	8:CC:369:ALA:HB2	1.85	0.58
8:CG:50:ASN:O	8:CG:64:ARG:NH1	2.36	0.58
8:CK:172:TYR:CD1	8:CK:203:MET:HG2	2.38	0.58
8:CM:172:TYR:HH	8:CM:388:TRP:CD1	2.20	0.58
9:ED:181:GLU:OE1	9:ED:181:GLU:N	2.31	0.58
8:EI:213:CYS:HA	8:EI:217:LEU:HD23	1.83	0.58
8:EI:339:ARG:NH2	8:EI:342:GLN:HG2	2.18	0.58
8:FM:324:VAL:HG12	8:FM:326:LYS:H	1.68	0.58
9:FN:8:GLN:HE21	9:FN:14:ASN:HA	1.68	0.58
9:FN:55:THR:HG23	9:GN:283:ALA:HA	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GK:90:GLU:N	8:GK:90:GLU:OE2	2.35	0.58
9:HB:245:GLN:NE2	8:HC:224:TYR:HB2	2.15	0.58
9:HH:371:SER:O	9:HH:422:TYR:OH	2.21	0.58
9:HL:270:PHE:CE2	9:HL:272:PRO:HD2	2.38	0.58
9:HL:392:LYS:HB3	9:HL:395:LEU:HD13	1.84	0.58
8:HM:325:PRO:O	8:HM:329:ASN:ND2	2.36	0.58
8:HM:377:MET:HE1	8:HM:379:SER:HB3	1.83	0.58
9:HP:309:ARG:H	9:HP:372:THR:HB	1.68	0.58
9:IF:274:THR:O	9:IF:279:GLN:NE2	2.36	0.58
9:IH:10:GLY:O	9:IH:14:ASN:ND2	2.35	0.58
8:IO:142:GLY:O	8:IO:186:ASN:ND2	2.36	0.58
8:IO:371:VAL:HG12	8:IO:373:ARG:H	1.68	0.58
9:IP:8:GLN:HG2	9:IP:65:LEU:HD13	1.85	0.58
19:J2:84:ASN:H	8:OC:370:LYS:HZ1	1.48	0.58
19:J4:75:SER:HB3	8:NK:84:ARG:HH22	1.68	0.58
8:JC:298:PRO:HA	8:JC:301:GLN:HG2	1.85	0.58
9:JD:131:GLN:HE22	9:JD:249:ASP:HB2	1.68	0.58
8:KI:15:GLN:O	8:KI:228:ASN:ND2	2.36	0.58
9:LH:237:THR:HG22	9:LH:250:LEU:HD21	1.84	0.58
9:LL:118:ASP:OD1	9:LL:121:ARG:NH2	2.33	0.58
9:LP:257:MET:SD	9:LP:312:THR:OG1	2.58	0.58
8:MG:121:ARG:NH1	8:MG:121:ARG:O	2.36	0.58
9:MJ:173:PRO:HB3	9:MJ:384:GLN:HE21	1.66	0.58
9:MP:143:THR:HG23	9:MP:147:MET:HE3	1.85	0.58
8:NC:320:ARG:HD3	8:NC:360:PRO:HG3	1.85	0.58
8:NE:367:ASP:N	8:NE:367:ASP:OD1	2.36	0.58
9:NF:30:ILE:HD11	9:NF:47:ILE:HD13	1.84	0.58
9:OB:198:GLU:HA	9:OB:264:HIS:HB2	1.85	0.58
9:OD:54:ALA:HB3	9:OD:58:LYS:HB3	1.85	0.58
9:OH:361:LEU:HD12	9:OH:362:LYS:H	1.67	0.58
26:P1:120:HIS:O	26:P1:124:ASN:ND2	2.36	0.58
9:PH:330:MET:SD	9:PH:349:VAL:HG11	2.42	0.58
8:PI:245:ASP:HA	8:PI:249:ASN:HD21	1.67	0.58
8:QE:147:SER:OG	8:QE:190:THR:OG1	2.20	0.58
9:QH:83:GLN:O	9:RH:281:TYR:OH	2.18	0.58
9:RJ:202:ILE:HA	9:RJ:300:MET:HE1	1.83	0.58
8:RK:398:MET:HE3	8:RK:403:ALA:HB3	1.84	0.58
8:RO:171:ILE:HD13	8:RO:204:VAL:HG13	1.84	0.58
12:S9:317:ALA:O	12:S9:320:LYS:HG2	2.03	0.58
8:SC:264:ARG:NH1	8:SC:431:ASP:OD2	2.36	0.58
9:SF:193:VAL:HG21	9:SF:418:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SF:256:ASN:HD21	8:SG:181:VAL:H	1.50	0.58
9:SH:375:GLN:HB3	9:SH:422:TYR:CE2	2.33	0.58
25:T:297:MET:SD	25:T:297:MET:N	2.77	0.58
14:T2:60:SER:HA	14:T2:63:ARG:HD2	1.83	0.58
14:T3:31:CYS:O	14:T4:192:ARG:NH2	2.26	0.58
9:TH:321:MET:N	9:TH:321:MET:SD	2.76	0.58
9:TL:54:ALA:HB3	9:TL:58:LYS:HB3	1.84	0.58
30:U0:426:THR:HG22	30:U1:127:LYS:HE2	1.85	0.58
30:U3:205:ASP:OD2	30:U3:461:THR:OG1	2.18	0.58
30:U7:124:MET:HA	30:U7:127:LYS:HE3	1.85	0.58
8:UA:122:ILE:HD12	8:UA:157:LEU:HD11	1.86	0.58
8:UK:53:PHE:O	8:UK:64:ARG:NH1	2.36	0.58
25:V:110:SER:OG	25:V:113:GLU:O	2.21	0.58
30:V4:188:LEU:CD1	30:V4:219:VAL:HG13	2.33	0.58
30:V7:463:CYS:HB2	30:W0:376:MET:HE2	1.84	0.58
9:VB:150:LEU:HG	9:VB:154:LYS:HE2	1.85	0.58
9:VL:247:ASN:O	9:VL:252:LYS:NZ	2.36	0.58
31:W:652:VAL:HB	31:W:687:GLN:HB3	1.85	0.58
9:WB:376:GLU:OE1	9:WB:380:ARG:NH1	2.36	0.58
8:WE:317:MET:HE1	8:WE:377:MET:HG2	1.84	0.58
8:WK:7:ILE:HD12	8:WK:137:ILE:HG12	1.84	0.58
9:WL:387:ALA:O	9:WL:390:ARG:NH1	2.36	0.58
34:X6:81:VAL:HG12	34:X6:82:CYS:H	1.68	0.58
47:o:91:TYR:HA	47:o:94:MET:HE3	1.85	0.58
2:2:517:LYS:HD2	2:2:518:VAL:N	2.19	0.58
4:6:142:LEU:HB3	4:6:292:MET:HB2	1.86	0.58
5:8:99:THR:HA	9:JJ:320:ARG:HH12	1.68	0.58
8:AG:105:ARG:HA	8:AG:109:THR:HG22	1.83	0.58
8:BE:93:ILE:HD11	8:BE:121:ARG:HG3	1.85	0.58
8:CQ:76:ASP:OD1	8:CQ:79:ARG:NH1	2.36	0.58
14:D3:127:GLU:OE1	14:D3:275:SER:OG	2.07	0.58
9:DD:180:VAL:O	9:DD:184:ASN:ND2	2.36	0.58
8:DG:121:ARG:HH21	8:DG:124:LYS:HD2	1.67	0.58
9:DH:69:GLU:HG2	9:DH:71:GLY:H	1.68	0.58
8:DK:133:GLN:NE2	8:DK:251:ASP:OD2	2.36	0.58
9:EB:323:MET:HA	9:EB:326:VAL:HG12	1.83	0.58
8:EC:251:ASP:HB3	8:EC:254:GLU:HG3	1.84	0.58
8:EG:286:LEU:O	8:EG:373:ARG:NH1	2.36	0.58
8:FC:211:ASP:OD2	8:FC:211:ASP:N	2.36	0.58
8:FI:85:GLN:O	8:GI:283:HIS:NE2	2.33	0.58
9:GD:68:LEU:HB3	9:GD:96:GLY:HA2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GJ:245:GLN:O	8:GK:11:GLN:NE2	2.36	0.58
9:GJ:318:ARG:NH2	9:GJ:356:ILE:O	2.37	0.58
9:HB:113:VAL:HG11	9:HB:150:LEU:HD23	1.84	0.58
9:HD:36:TYR:CE1	9:HD:44:LEU:HB2	2.39	0.58
8:HE:132:LEU:O	8:HE:164:LYS:NZ	2.32	0.58
8:HI:7:ILE:HB	8:HI:137:ILE:HG22	1.84	0.58
8:HM:3:GLU:OE2	8:HM:64:ARG:NH2	2.37	0.58
8:HO:186:ASN:O	8:HO:190:THR:OG1	2.20	0.58
9:IF:198:GLU:HB3	9:IF:266:PHE:HE2	1.68	0.58
8:IG:395:PHE:HE2	8:IG:422:ARG:HB2	1.69	0.58
8:IK:136:LEU:HB3	8:IK:138:PHE:CE1	2.38	0.58
19:J4:136:ARG:NH1	9:KL:194:GLU:O	2.36	0.58
9:KB:400:GLY:HA2	44:h1:123:PRO:HG3	1.85	0.58
9:KF:70:PRO:HB3	9:KF:92:PHE:CE2	2.38	0.58
9:KL:133:PHE:HD2	9:KL:164:MET:HE1	1.68	0.58
9:KP:284:LEU:HB3	9:KP:362:LYS:CE	2.33	0.58
9:LH:184:ASN:O	9:LH:188:SER:OG	2.18	0.58
9:LL:11:GLN:HA	9:LL:72:THR:HG21	1.84	0.58
8:LO:113:GLU:HG2	43:k:124:ILE:HG23	1.85	0.58
8:ME:360:PRO:O	8:ME:370:LYS:NZ	2.36	0.58
8:MM:50:ASN:O	8:MM:64:ARG:NH1	2.36	0.58
8:MM:104:ALA:HB1	8:MM:411:GLU:OE1	2.03	0.58
17:N:16:TYR:HB2	17:N:39:THR:HG21	1.84	0.58
8:NC:161:TYR:HB3	8:NC:164:LYS:HB2	1.85	0.58
8:NM:108:TYR:HA	8:NM:112:LYS:HE3	1.86	0.58
8:NO:133:GLN:HG3	8:NO:252:LEU:HD23	1.85	0.58
8:OK:70:LEU:HB3	8:OK:98:ASP:HA	1.85	0.58
8:OK:254:GLU:HG3	9:OL:98:GLY:HA2	1.84	0.58
28:Q2:98:PHE:HD1	28:Q2:101:ARG:HH21	1.51	0.58
28:Q4:109:TYR:HE1	12:S9:422:ASN:OD1	1.86	0.58
9:QB:21:TRP:HE1	9:QB:63:ALA:HB2	1.69	0.58
9:QH:54:ALA:HB3	9:QH:58:LYS:HB3	1.85	0.58
9:RD:282:ARG:NH1	9:RD:292:GLN:OE1	2.32	0.58
8:RE:215:ARG:NH1	8:RE:216:ASN:OD1	2.36	0.58
9:RL:158:GLU:HG3	9:RL:159:TYR:CD1	2.38	0.58
9:SD:267:MET:SD	9:SD:299:MET:HB3	2.43	0.58
9:SD:337:ASN:HB3	9:SD:340:TYR:HD2	1.69	0.58
8:SE:3:GLU:H	8:SE:133:GLN:HG2	1.68	0.58
25:T:324:TYR:HE2	25:T:337:ILE:HG12	1.68	0.58
8:TC:7:ILE:HB	8:TC:137:ILE:HG23	1.84	0.58
25:U:456:VAL:HB	25:U:459:SER:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:U:516:MET:HE1	25:U:523:TYR:CG	2.39	0.58
30:U4:170:MET:HE1	30:U4:318:ARG:HG3	1.84	0.58
8:UA:315:CYS:HB3	8:UA:377:MET:HE1	1.84	0.58
9:UD:299:MET:HA	9:UD:299:MET:HE2	1.84	0.58
8:UE:227:LEU:O	8:UE:231:ILE:HG13	2.03	0.58
8:UI:216:ASN:O	8:UI:280:LYS:NZ	2.35	0.58
25:V:373:GLU:OE2	25:V:373:GLU:N	2.35	0.58
30:W2:195:LEU:HD23	30:W2:215:LEU:HD23	1.84	0.58
30:W5:239:GLN:NE2	30:W5:243:ASN:OD1	2.36	0.58
8:WI:214:ARG:HE	8:WI:220:GLU:HA	1.69	0.58
35:XC:72:LYS:NZ	37:YC:62:ARG:O	2.33	0.58
36:Y4:112:THR:HA	36:Y4:115:VAL:HG22	1.85	0.58
37:YE:22:VAL:HB	37:YE:38:ARG:HE	1.68	0.58
37:YF:138:LYS:HE2	37:YF:142:ASN:HD21	1.67	0.58
46:i4:1336:ILE:O	46:i4:1340:TRP:CB	2.49	0.58
47:p:487:MET:N	47:p:487:MET:HE2	2.19	0.58
4:6:316:ASP:OD1	9:IL:37:HIS:NE2	2.35	0.58
1:7:98:GLN:OE1	1:7:98:GLN:N	2.31	0.58
8:AA:1:MET:HE1	8:AA:50:ASN:HB3	1.84	0.58
8:AG:408:TYR:HB3	8:AG:413:MET:HE3	1.85	0.58
9:AJ:309:ARG:HG3	9:AJ:426:GLN:HG3	1.85	0.58
11:B2:321:ARG:O	11:B2:324:ARG:NH1	2.37	0.58
8:BI:170:ALA:O	8:BI:203:MET:HA	2.03	0.58
8:CG:15:GLN:NE2	50:CG:501:GTP:O6	2.35	0.58
8:CG:239:THR:OG1	8:CG:243:ARG:NH1	2.36	0.58
9:DJ:173:PRO:HG2	9:DJ:174:LYS:HD3	1.84	0.58
9:DP:372:THR:HA	9:DP:422:TYR:HE1	1.68	0.58
9:EB:323:MET:HE1	8:EC:224:TYR:H	1.69	0.58
9:EF:10:GLY:O	9:EF:14:ASN:ND2	2.35	0.58
8:FG:96:LYS:NZ	36:Y2:192:VAL:O	2.36	0.58
9:GB:257:MET:SD	9:GB:312:THR:OG1	2.57	0.58
9:GB:376:GLU:HG2	9:GB:380:ARG:HH21	1.67	0.58
9:GD:372:THR:HG21	9:GD:426:GLN:HB2	1.85	0.58
9:GJ:299:MET:N	9:GJ:299:MET:SD	2.75	0.58
9:HD:48:ASN:O	9:HD:62:ARG:NH2	2.36	0.58
8:HG:85:GLN:O	8:IG:283:HIS:NE2	2.30	0.58
8:HM:137:ILE:HD12	8:HM:154:MET:HE2	1.86	0.58
8:IA:302:MET:HA	8:IA:302:MET:HE3	1.86	0.58
9:IL:290:THR:HA	9:IL:293:MET:HE3	1.83	0.58
9:IL:306:ARG:HG3	9:IL:340:TYR:HE1	1.68	0.58
9:IL:375:GLN:NE2	9:IL:376:GLU:OE1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IO:55:GLU:CD	8:IO:61:HIS:CE1	2.82	0.58
19:J5:119:ASN:O	19:J5:123:MET:HB2	2.03	0.58
9:JD:344:TRP:HA	8:JE:397:LEU:HD11	1.85	0.58
8:JK:172:TYR:HD1	8:JK:173:PRO:HD2	1.68	0.58
9:JL:199:THR:HG1	9:JL:264:HIS:HE2	1.49	0.58
8:JO:328:VAL:HG11	8:JO:353:VAL:HG11	1.85	0.58
9:KF:5:VAL:HG22	9:KF:62:ARG:HD2	1.84	0.58
9:KF:149:THR:HB	9:KF:191:GLN:HG3	1.84	0.58
9:KH:8:GLN:NE2	9:KH:13:GLY:O	2.33	0.58
8:KK:50:ASN:O	8:KK:64:ARG:NH1	2.37	0.58
8:KK:70:LEU:HB3	8:KK:98:ASP:HA	1.86	0.58
9:KL:286:VAL:HG22	9:KL:321:MET:SD	2.44	0.58
8:KO:70:LEU:HB3	8:KO:98:ASP:HA	1.85	0.58
8:KO:172:TYR:HB2	8:KO:203:MET:HB2	1.85	0.58
8:LG:183:GLU:HA	8:LG:186:ASN:HD22	1.67	0.58
8:LK:66:VAL:HG11	8:LK:122:ILE:HD11	1.84	0.58
8:LM:338:LYS:NZ	41:b4:382:LEU:HD12	2.18	0.58
8:MC:71:GLU:HB3	8:MC:98:ASP:HB3	1.86	0.58
9:MP:210:ILE:O	9:MP:214:THR:OG1	2.22	0.58
9:NF:345:ILE:HG23	8:NG:398:MET:HE2	1.84	0.58
8:NG:90:GLU:HB2	8:NG:121:ARG:HE	1.66	0.58
9:OB:245:GLN:HB3	8:OC:224:TYR:HE2	1.69	0.58
9:OF:7:LEU:N	9:OF:134:GLN:O	2.37	0.58
8:OG:362:VAL:HB	8:OG:370:LYS:HB3	1.83	0.58
8:OK:102:ASN:HB3	8:OK:105:ARG:HB2	1.85	0.58
9:ON:2:ARG:NH1	9:ON:240:LEU:O	2.35	0.58
9:ON:275:SER:O	9:ON:279:GLN:NE2	2.37	0.58
9:OP:20:PHE:CD1	9:OP:230:SER:HA	2.37	0.58
9:OP:309:ARG:NH2	9:OP:339:SER:O	2.36	0.58
9:PB:150:LEU:HG	9:PB:154:LYS:HE2	1.85	0.58
8:PC:313:MET:HB2	8:PC:381:THR:HA	1.86	0.58
9:PD:150:LEU:HG	9:PD:154:LYS:HE2	1.85	0.58
8:PG:212:ILE:HD11	8:PG:275:VAL:HG21	1.85	0.58
9:PH:7:LEU:HD23	9:PH:64:VAL:HB	1.86	0.58
9:QF:113:VAL:HG11	9:QF:150:LEU:HD23	1.86	0.58
8:QK:245:ASP:HB2	8:QK:357:TYR:CE2	2.38	0.58
9:QL:130:LEU:O	9:QL:162:ARG:NH1	2.33	0.58
9:QL:324:LYS:HB2	8:QM:221:ARG:HH12	1.68	0.58
8:QM:286:LEU:HD13	8:QM:371:VAL:HG13	1.85	0.58
9:QP:293:MET:HE2	9:QP:293:MET:N	2.18	0.58
9:QP:414:ASN:C	9:QP:414:ASN:ND2	2.62	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R3:121:GLU:OE1	14:T2:409:ARG:NH2	2.37	0.58
8:RG:437:VAL:O	9:RH:391:ARG:NH2	2.37	0.58
9:RL:8:GLN:NE2	9:RL:13:GLY:O	2.32	0.58
8:RM:70:LEU:HB3	8:RM:98:ASP:HA	1.85	0.58
8:SE:297:GLU:O	8:SE:301:GLN:NE2	2.33	0.58
14:T2:149:TYR:HB2	14:T2:183:ILE:HG21	1.85	0.58
8:TA:137:ILE:HG13	8:TA:168:GLU:HA	1.84	0.58
8:TE:151:SER:HA	8:TE:193:THR:HG21	1.85	0.58
9:TJ:27:GLU:OE1	9:TJ:241:ARG:NH1	2.37	0.58
9:TJ:325:GLU:OE2	8:TK:221:ARG:NH1	2.37	0.58
9:TN:371:SER:O	9:TN:422:TYR:OH	2.21	0.58
30:U2:104:ARG:HB3	30:W5:443:LEU:HD11	1.85	0.58
9:UB:415:MET:HA	9:UB:418:LEU:HB3	1.84	0.58
8:UE:138:PHE:HA	8:UE:169:PHE:O	2.02	0.58
30:V8:242:ASP:HB3	30:V8:310:MET:SD	2.44	0.58
9:VB:267:MET:HG2	9:VB:301:ALA:HB3	1.86	0.58
8:WC:208:ALA:HB2	8:WC:304:LYS:HD2	1.85	0.58
9:WL:330:MET:N	9:WL:330:MET:SD	2.77	0.58
31:X:304:LEU:HD23	31:X:319:LEU:HD23	1.84	0.58
34:X8:203:TYR:OH	34:X8:229:LEU:O	2.21	0.58
37:YC:27:THR:O	37:YC:29:LYS:N	2.36	0.58
40:a1:87:HIS:O	40:a1:90:THR:OG1	2.22	0.58
41:b1:375:ARG:HH12	41:b1:379:LYS:HD3	1.68	0.58
41:b4:387:LEU:C	41:b4:389:ALA:H	2.10	0.58
42:f:334:ALA:O	42:f:336:GLN:NE2	2.32	0.58
44:h2:68:ASN:O	44:h2:72:GLN:N	2.36	0.58
43:i:82:SER:HB2	43:i:83:PRO:HD3	1.85	0.58
48:q:77:THR:HG21	48:q:93:LEU:HA	1.84	0.58
3:3:102:ARG:NH1	18:I1:110:GLN:O	2.36	0.58
4:6:204:ARG:NH1	30:W0:255:GLU:OE2	2.35	0.58
9:AD:417:ASP:OD2	37:YB:175:ARG:NH1	2.36	0.58
8:AI:328:VAL:HG11	8:AI:355:ILE:HD11	1.84	0.58
9:BB:313:VAL:HG13	9:BB:367:PHE:HE1	1.67	0.58
9:BJ:256:ASN:ND2	9:BJ:350:LYS:HD3	2.18	0.58
9:CN:276:ARG:NH2	25:O5:316:SER:OG	2.32	0.58
8:CQ:264:ARG:NH1	8:CQ:431:ASP:OD2	2.37	0.58
8:CQ:338:LYS:HE2	8:CQ:340:THR:HB	1.86	0.58
9:DD:267:MET:HE3	9:DD:299:MET:HG2	1.86	0.58
8:EC:302:MET:HE3	8:EC:302:MET:HA	1.85	0.58
9:ED:273:LEU:O	9:ED:292:GLN:NE2	2.35	0.58
9:EJ:337:ASN:HB3	9:EJ:340:TYR:HD2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EL:130:LEU:O	9:EL:162:ARG:NH1	2.33	0.58
8:EM:88:HIS:CE1	8:EM:90:GLU:HB3	2.37	0.58
8:FG:385:ALA:HA	8:FG:388:TRP:HD1	1.68	0.58
8:FK:437:VAL:O	9:FL:391:ARG:NH2	2.30	0.58
8:FO:116:ASP:N	8:FO:116:ASP:OD1	2.34	0.58
9:GJ:274:THR:HB	9:GJ:278:SER:HB2	1.86	0.58
8:GO:116:ASP:OD1	8:GO:116:ASP:N	2.35	0.58
8:HG:3:GLU:HA	8:HG:51:THR:HA	1.85	0.58
9:HN:347:ASN:ND2	8:HO:176:GLN:O	2.29	0.58
8:HO:172:TYR:CE2	8:HO:391:LEU:HD21	2.37	0.58
9:HP:337:ASN:HB3	9:HP:340:TYR:HD2	1.68	0.58
9:IB:273:LEU:O	9:IB:292:GLN:NE2	2.36	0.58
8:II:276:ILE:HD11	8:II:286:LEU:HD11	1.84	0.58
9:IJ:217:LEU:HB2	9:IJ:220:PRO:HD3	1.83	0.58
9:IL:226:ASN:OD1	52:IL:502:GDP:N1	2.31	0.58
8:IO:31:GLN:HE22	8:IO:37:PRO:HB3	1.69	0.58
19:J4:54:ARG:NH1	9:NJ:39:ASP:O	2.35	0.58
9:JJ:299:MET:HE3	9:JJ:300:MET:H	1.68	0.58
8:JK:52:PHE:HE1	8:JK:243:ARG:HD3	1.69	0.58
8:KG:318:LEU:HB2	8:KG:376:CYS:HB3	1.86	0.58
9:KL:48:ASN:O	9:KL:62:ARG:NH2	2.36	0.58
9:KN:190:HIS:ND1	9:KN:414:ASN:OD1	2.36	0.58
9:KP:402:GLY:HA2	41:b5:465:LEU:HG	1.85	0.58
9:LP:279:GLN:NE2	29:S:73:ASP:OD2	2.36	0.58
9:MD:156:ARG:NH1	9:MD:197:ASP:OD1	2.37	0.58
9:MH:216:LYS:HG3	9:MH:275:SER:HB2	1.84	0.58
9:NJ:27:GLU:OE2	9:NJ:318:ARG:NH2	2.36	0.58
24:O1:63:GLU:N	24:O1:63:GLU:OE2	2.35	0.58
25:O5:42:ARG:NH1	25:O5:55:ASN:O	2.36	0.58
9:OH:247:ASN:HD22	8:OI:74:VAL:HG22	1.68	0.58
27:P3:134:CYS:HB2	27:P3:153:LEU:HB2	1.85	0.58
27:P3:157:LEU:HD23	27:P3:158:CYS:N	2.18	0.58
8:PG:147:SER:OG	8:PG:190:THR:OG1	2.18	0.58
8:PI:239:THR:OG1	8:PI:243:ARG:NH1	2.37	0.58
8:PM:264:ARG:NH1	8:PM:431:ASP:OD2	2.37	0.58
9:QB:323:MET:HE3	8:QC:224:TYR:HD2	1.68	0.58
9:QL:49:VAL:HG21	9:QL:241:ARG:HG2	1.84	0.58
8:QM:70:LEU:HB3	8:QM:98:ASP:HA	1.85	0.58
9:RF:8:GLN:HB3	9:RF:65:LEU:HA	1.85	0.58
12:S3:120:LEU:HG	12:S4:437:ARG:HH21	1.68	0.58
12:S4:167:MET:HE1	12:S4:247:ASP:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SA:360:PRO:O	8:SA:370:LYS:NZ	2.36	0.58
9:SJ:371:SER:O	9:SJ:422:TYR:OH	2.21	0.58
9:SN:48:ASN:O	9:SN:62:ARG:NH2	2.35	0.58
9:TD:269:GLY:HA3	9:TD:367:PHE:HD2	1.69	0.58
9:TH:54:ALA:HA	9:UH:283:ALA:HB2	1.85	0.58
30:U1:367:GLU:HG3	30:U2:110:ARG:HG3	1.85	0.58
25:V:508:THR:OG1	25:V:534:ARG:NH1	2.36	0.58
30:V2:316:ARG:HA	30:V2:319:GLU:OE1	2.03	0.58
30:V2:378:LEU:HD13	30:V2:434:LEU:HA	1.86	0.58
30:V2:419:GLU:OE2	30:V3:138:THR:OG1	2.21	0.58
30:V3:308:GLN:HG2	30:V3:311:ARG:HH21	1.69	0.58
9:VF:213:ARG:O	9:VF:216:LYS:NZ	2.29	0.58
9:VN:273:LEU:O	9:VN:292:GLN:NE2	2.36	0.58
8:WM:239:THR:OG1	8:WM:243:ARG:NH1	2.35	0.58
9:WP:156:ARG:HD3	9:WP:164:MET:SD	2.43	0.58
33:X4:141:GLN:NE2	33:X4:145:GLY:O	2.35	0.58
35:XH:33:HIS:HD2	35:XH:35:LYS:HE3	1.68	0.58
39:c:111:ARG:HA	39:c:114:TRP:CE3	2.39	0.58
42:e:606:SER:OG	42:e:608:ASP:OD1	2.20	0.58
42:f:60:LEU:HD12	42:f:101:ARG:HH21	1.68	0.58
42:f:373:PRO:O	48:r:135:LYS:NZ	2.35	0.58
43:i:198:GLN:O	43:i:202:LYS:N	2.36	0.58
2:1:547:ASP:HA	2:1:552:ARG:HG2	1.85	0.58
1:7:53:ARG:HA	1:7:56:GLU:HG3	1.85	0.58
9:AD:31:ASP:OD1	9:AD:35:THR:N	2.36	0.58
9:AF:155:ILE:HA	9:AF:158:GLU:HG2	1.86	0.58
9:AH:44:LEU:O	17:K:214:GLN:NE2	2.34	0.58
8:AK:168:GLU:OE2	8:AK:194:THR:OG1	2.21	0.58
9:AL:311:LEU:O	9:AL:348:ASN:ND2	2.36	0.58
11:B1:124:ARG:NH2	14:D1:406:GLU:OE2	2.36	0.58
11:B5:389:LYS:NZ	11:B5:407:GLN:O	2.36	0.58
9:BD:274:THR:HG21	9:BD:282:ARG:HD2	1.84	0.58
9:BF:364:SER:OG	9:BF:365:ALA:N	2.33	0.58
9:BF:378:PHE:HB3	9:BF:415:MET:HE1	1.84	0.58
8:BG:236:SER:O	8:BG:243:ARG:NH2	2.36	0.58
9:BL:248:ALA:HA	9:BL:252:LYS:HD2	1.85	0.58
12:C0:159:GLU:OE2	11:R0:266:ARG:NH1	2.37	0.58
13:D:424:PHE:HE2	9:LB:77:ARG:HE	1.51	0.58
9:DF:248:ALA:HA	9:DF:252:LYS:HD2	1.85	0.58
8:DG:286:LEU:O	8:DG:373:ARG:NH1	2.34	0.58
9:DL:77:ARG:HH22	9:DL:87:PRO:HG3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EF:285:THR:HB	9:EF:287:PRO:HD2	1.85	0.58
8:EI:425:LEU:HA	8:EI:428:LEU:HB2	1.85	0.58
9:EL:218:THR:HG22	25:O5:402:PRO:HB2	1.86	0.58
9:FD:337:ASN:HB3	9:FD:340:TYR:HD2	1.69	0.58
8:FM:194:THR:O	8:FM:266:HIS:NE2	2.37	0.58
8:GA:324:VAL:HG12	8:GA:326:LYS:H	1.68	0.58
8:GI:322:ASP:OD2	8:GI:373:ARG:NH2	2.35	0.58
8:GO:214:ARG:NH1	36:Y2:35:THR:O	2.36	0.58
9:HB:299:MET:HE2	9:HB:299:MET:HA	1.86	0.58
9:HJ:167:PHE:CE2	9:HJ:233:MET:HG3	2.39	0.58
9:HJ:313:VAL:HG13	9:HJ:367:PHE:HE1	1.68	0.58
8:HO:297:GLU:HG3	8:HO:299:ALA:H	1.67	0.58
18:I1:139:LYS:HB3	18:I1:143:MET:HE3	1.84	0.58
9:IB:27:GLU:CD	9:IB:318:ARG:HH22	2.11	0.58
9:IB:289:LEU:O	9:IB:293:MET:N	2.34	0.58
8:IC:33:ASP:OD2	8:IC:34:GLY:N	2.37	0.58
8:IE:215:ARG:NH1	8:IE:216:ASN:OD1	2.36	0.58
9:IF:101:TRP:HZ3	9:IF:106:TYR:HH	1.51	0.58
9:IF:289:LEU:HD21	9:IF:363:MET:HE2	1.86	0.58
8:IG:102:ASN:HB3	8:IG:105:ARG:HB2	1.86	0.58
8:IM:154:MET:HE3	8:IM:193:THR:HG22	1.84	0.58
8:JI:317:MET:HB3	8:JI:352:LYS:O	2.03	0.58
9:LF:143:THR:OG1	52:LF:502:GDP:O1B	2.20	0.58
8:LK:56:THR:HG22	8:LK:60:LYS:H	1.68	0.58
8:LK:276:ILE:HD11	8:LK:286:LEU:HD11	1.85	0.58
8:MM:264:ARG:NH1	8:MM:431:ASP:OD2	2.36	0.58
8:NK:325:PRO:HB2	9:NL:208:TYR:OH	2.02	0.58
9:NN:256:ASN:HD21	8:NO:181:VAL:H	1.50	0.58
9:NN:322:SER:HB3	8:NO:221:ARG:HD2	1.86	0.58
9:NP:407:GLU:HA	9:NP:410:GLU:HG2	1.84	0.58
9:OD:149:THR:HB	9:OD:191:GLN:HG2	1.86	0.58
9:OF:306:ARG:HG3	9:OF:340:TYR:CE2	2.39	0.58
9:OH:309:ARG:NH2	9:OH:339:SER:O	2.35	0.58
9:OJ:304:ASP:HB3	9:OJ:307:HIS:HE1	1.67	0.58
9:OP:104:GLY:O	9:OP:147:MET:HG3	2.03	0.58
17:P9:151:PRO:HB2	31:Z:223:ILE:HG13	1.84	0.58
8:PE:320:ARG:HD3	8:PE:360:PRO:HG3	1.86	0.58
8:PG:248:LEU:HD13	8:PG:355:ILE:HD13	1.84	0.58
9:PH:86:ARG:HH21	9:QH:281:TYR:HB2	1.67	0.58
9:PJ:207:LEU:HG	9:PJ:225:LEU:HG	1.86	0.58
9:PJ:403:MET:HE1	9:PJ:407:GLU:HG2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PK:23:LEU:HD12	8:PK:26:LEU:HD11	1.86	0.58
8:PO:5:ILE:HD12	8:PO:135:PHE:HE2	1.68	0.58
9:PP:331:LEU:O	9:PP:335:ASN:ND2	2.37	0.58
8:QC:50:ASN:O	8:QC:64:ARG:NH1	2.36	0.58
9:QF:252:LYS:NZ	8:QG:98:ASP:OD2	2.36	0.58
8:QK:33:ASP:OD1	8:QK:33:ASP:N	2.30	0.58
12:S3:174:LEU:HD13	12:S3:322:ARG:HG3	1.86	0.58
9:SF:375:GLN:HB3	9:SF:422:TYR:CE1	2.39	0.58
8:SG:215:ARG:NH2	8:SG:299:ALA:O	2.37	0.58
9:SH:344:TRP:O	8:SI:398:MET:HE1	2.04	0.58
9:SL:1:MET:SD	9:SL:2:ARG:HG2	2.42	0.58
14:T2:31:CYS:O	14:T3:192:ARG:NH2	2.26	0.58
9:TL:5:VAL:HB	9:TL:133:PHE:HD1	1.68	0.58
8:TM:7:ILE:HB	8:TM:137:ILE:HG23	1.85	0.58
8:TM:68:VAL:HG12	8:TM:93:ILE:HB	1.86	0.58
8:TM:167:LEU:HD13	8:TM:169:PHE:CE2	2.38	0.58
8:TM:372:GLN:HE21	8:TM:373:ARG:HG2	1.69	0.58
30:U3:378:LEU:HA	30:U4:124:MET:HE1	1.84	0.58
8:UC:316:CYS:HB3	8:UC:378:LEU:HB3	1.85	0.58
9:UJ:372:THR:HA	9:UJ:422:TYR:HE1	1.68	0.58
9:UN:325:GLU:OE2	8:UO:221:ARG:NH1	2.36	0.58
25:V:326:ALA:HA	25:V:329:PHE:HD1	1.68	0.58
30:V1:209:ASP:OD2	30:V1:346:ARG:NH2	2.36	0.58
30:V1:354:LYS:HB2	30:V1:458:LYS:HG2	1.86	0.58
9:VH:155:ILE:HA	9:VH:158:GLU:HG2	1.86	0.58
9:VJ:314:ALA:HB3	9:VJ:368:ILE:HG22	1.85	0.58
9:WD:212:PHE:HB3	9:WD:213:ARG:HE	1.69	0.58
9:WN:330:MET:CE	9:WN:331:LEU:HD22	2.34	0.58
36:Y2:179:THR:HG22	36:Y2:182:PRO:HD2	1.86	0.58
42:g:559:HIS:NE2	42:g:616:TYR:OH	2.33	0.58
4:j1:383:LEU:HA	4:j1:386:VAL:HG12	1.84	0.58
2:2:274:PHE:HA	8:II:358:GLN:HE22	1.66	0.58
1:7:96:MET:HE3	8:JE:82:THR:HG23	1.84	0.58
7:A0:336:ARG:HD2	7:A0:339:LYS:HE3	1.86	0.58
8:AA:348:PRO:HD2	9:AB:388:MET:HE1	1.86	0.58
9:AB:281:TYR:HD1	9:MB:87:PRO:HD3	1.68	0.58
8:AK:154:MET:HE1	8:AK:168:GLU:HB3	1.85	0.58
9:AL:334:GLN:HE22	9:AL:348:ASN:N	1.96	0.58
8:AO:286:LEU:O	8:AO:373:ARG:NH1	2.36	0.58
9:BH:211:CYS:HA	9:BH:215:LEU:HB2	1.84	0.58
9:BL:48:ASN:O	9:BL:62:ARG:NH2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C2:270:LYS:NZ	12:C3:402:GLU:OE1	2.37	0.58
8:CE:209:ILE:HB	8:CE:227:LEU:HD23	1.85	0.58
9:CF:295:ASP:OD1	9:CF:297:LYS:N	2.34	0.58
14:D4:202:ARG:HD3	28:Q4:138:GLN:HE21	1.68	0.58
9:DJ:48:ASN:O	9:DJ:62:ARG:NH2	2.36	0.58
9:FL:207:LEU:HD11	9:FL:300:MET:HE2	1.86	0.58
8:FM:9:VAL:HB	8:FM:139:HIS:HB3	1.85	0.58
8:GE:316:CYS:HB3	8:GE:378:LEU:HB2	1.85	0.58
8:GO:102:ASN:OD1	8:GO:105:ARG:N	2.21	0.58
8:HA:388:TRP:HA	8:HA:391:LEU:HG	1.85	0.58
9:HB:371:SER:O	9:HB:422:TYR:OH	2.20	0.58
8:HC:316:CYS:HA	8:HC:352:LYS:HB2	1.85	0.58
8:HM:36:MET:SD	8:HM:61:HIS:NE2	2.76	0.58
8:IK:50:ASN:O	8:IK:64:ARG:NH1	2.36	0.58
19:J2:200:GLN:O	19:J2:204:MET:HG3	2.03	0.58
8:KA:269:LEU:HD22	8:KA:303:VAL:HG21	1.86	0.58
9:KF:247:ASN:O	9:KF:252:LYS:NZ	2.36	0.58
8:KG:320:ARG:HD3	8:KG:360:PRO:HG3	1.86	0.58
9:KL:237:THR:HG22	9:KL:250:LEU:HD21	1.85	0.58
9:LB:309:ARG:NH1	44:h1:64:MET:SD	2.77	0.58
8:LG:53:PHE:O	8:LG:64:ARG:NH1	2.37	0.58
22:M4:122:LYS:HD2	22:M4:123:TYR:N	2.18	0.58
8:ME:215:ARG:NH1	8:ME:299:ALA:O	2.36	0.58
9:MP:205:GLU:OE2	9:MP:205:GLU:N	2.37	0.58
9:MP:292:GLN:HG3	9:MP:298:ASN:HD21	1.67	0.58
9:MP:372:THR:HA	9:MP:422:TYR:HE1	1.69	0.58
9:ND:120:VAL:CG1	9:ND:121:ARG:HH21	2.16	0.58
8:NM:54:SER:CB	8:NM:64:ARG:CZ	2.63	0.58
9:NN:117:LEU:HA	9:NN:120:VAL:HG22	1.85	0.58
24:O1:47:ILE:HA	24:O1:100:ARG:HB2	1.85	0.58
24:O2:182:GLU:HA	24:O2:185:LEU:HD12	1.86	0.58
8:OE:271:THR:HB	8:OE:377:MET:HB3	1.84	0.58
8:OG:50:ASN:OD1	8:OG:64:ARG:NH2	2.37	0.58
8:OI:105:ARG:HH21	8:OI:110:ILE:HG13	1.68	0.58
8:OK:151:SER:HA	8:OK:193:THR:HG21	1.86	0.58
8:OM:239:THR:OG1	8:OM:243:ARG:NH1	2.37	0.58
9:PD:310:TYR:CD2	9:PD:371:SER:HB2	2.38	0.58
8:PE:286:LEU:O	8:PE:373:ARG:NH1	2.37	0.58
8:PG:135:PHE:HE2	8:PG:157:LEU:HD12	1.67	0.58
8:PK:345:ASP:N	8:PK:345:ASP:OD1	2.34	0.58
8:PM:7:ILE:HB	8:PM:137:ILE:HG23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PN:324:LYS:HE2	8:PO:222:PRO:HB2	1.86	0.58
28:Q1:52:THR:OG1	28:Q1:59:ALA:N	2.34	0.58
28:Q2:192:CYS:SG	12:S7:360:LYS:NZ	2.65	0.58
8:QI:104:ALA:HA	8:QI:413:MET:HE2	1.85	0.58
8:QM:133:GLN:HE21	8:QM:252:LEU:HB2	1.67	0.58
8:RC:136:LEU:HB3	8:RC:138:PHE:HE1	1.68	0.58
9:RL:165:ASN:HB3	9:RL:200:TYR:HE2	1.68	0.58
9:RN:362:LYS:HE3	9:RN:363:MET:SD	2.44	0.58
8:RO:51:THR:HG21	8:RO:243:ARG:HG2	1.86	0.58
12:S0:181:LEU:HD11	12:S0:237:LEU:HB2	1.85	0.58
12:S0:235:GLN:OE1	12:S0:239:LYS:HE3	2.03	0.58
12:S2:281:VAL:HG22	12:S3:394:LYS:HG3	1.86	0.58
9:SF:252:LYS:NZ	50:SG:501:GTP:O3G	2.37	0.58
8:SI:153:LEU:O	8:SI:157:LEU:HG	2.04	0.58
9:SL:68:LEU:HB3	9:SL:96:GLY:HA2	1.84	0.58
25:T:136:PRO:O	25:T:145:GLN:NE2	2.37	0.58
9:TD:321:MET:N	9:TD:321:MET:SD	2.77	0.58
9:TL:198:GLU:HB2	9:TL:266:PHE:HE2	1.69	0.58
8:UE:139:HIS:O	8:UE:170:ALA:HA	2.04	0.58
25:V:165:TRP:HA	25:V:168:LEU:HD12	1.85	0.58
30:V3:221:LEU:HD11	30:V3:331:GLN:HB3	1.84	0.58
30:V7:369:PHE:CZ	30:W0:395:MET:HA	2.39	0.58
8:VI:225:THR:O	8:VI:229:ARG:HG2	2.04	0.58
8:VK:219:ILE:HD12	8:VK:222:PRO:HB3	1.86	0.58
8:WA:346:TRP:O	9:WB:388:MET:HB2	2.04	0.58
9:WD:271:ALA:HB1	9:WD:289:LEU:HD22	1.86	0.58
9:WD:290:THR:HG21	9:WD:329:GLN:HB3	1.86	0.58
9:WP:4:ILE:HG22	9:WP:134:GLN:HG2	1.86	0.58
9:WP:323:MET:SD	9:WP:323:MET:N	2.74	0.58
36:Y4:177:HIS:O	36:Y4:178:LYS:HD3	2.03	0.58
39:a:78:THR:HG22	39:a:89:GLU:HB2	1.85	0.58
39:b:411:GLN:HA	39:b:414:ILE:HD12	1.84	0.58
39:c:405:LYS:O	39:c:409:ASN:ND2	2.37	0.58
42:e:525:LYS:HA	42:e:542:GLY:H	1.68	0.58
42:f:60:LEU:HG	42:f:101:ARG:HE	1.68	0.58
3:3:16:PRO:HD3	9:OL:212:PHE:CZ	2.39	0.58
3:4:502:HIS:NE2	8:GK:27:GLU:O	2.36	0.58
8:AC:46:ASP:OD1	8:AC:46:ASP:N	2.32	0.58
8:AK:328:VAL:HG11	8:AK:353:VAL:HG11	1.86	0.58
8:AM:302:MET:HE2	8:AM:302:MET:HA	1.86	0.58
8:BO:107:HIS:HA	8:BO:152:LEU:HD23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:357:PRO:HG2	27:P4:16:ILE:HG23	1.86	0.58
8:CE:116:ASP:N	8:CE:116:ASP:OD1	2.36	0.58
8:CE:258:ASN:HD21	9:CF:178:THR:HA	1.69	0.58
9:CF:246:LEU:HA	8:CG:11:GLN:HE22	1.68	0.58
9:CH:112:LEU:HB3	9:CH:147:MET:HE1	1.86	0.58
9:CJ:48:ASN:O	9:CJ:62:ARG:NH2	2.36	0.58
8:CK:2:ARG:HB3	8:CK:242:LEU:HD23	1.85	0.58
8:CM:386:GLU:N	8:CM:386:GLU:OE1	2.36	0.58
8:DE:165:SER:HB3	8:DE:256:GLN:HE22	1.69	0.58
9:DJ:116:VAL:HG11	9:DJ:151:LEU:HD11	1.85	0.58
9:DN:136:THR:HG22	9:DN:167:PHE:HB2	1.85	0.58
8:EE:320:ARG:HD3	8:EE:360:PRO:HG3	1.86	0.58
9:EH:245:GLN:O	8:EI:11:GLN:NE2	2.36	0.58
8:EO:269:LEU:HD21	8:EO:384:ILE:HD12	1.85	0.58
8:FC:147:SER:HG	8:FC:190:THR:HG1	1.48	0.58
9:FJ:54:ALA:HB3	9:FJ:58:LYS:HB3	1.84	0.58
8:FK:385:ALA:HA	8:FK:388:TRP:CZ3	2.38	0.58
9:GB:6:HIS:NE2	9:GB:8:GLN:OE1	2.37	0.58
8:GG:250:VAL:HG13	8:GG:254:GLU:HB2	1.85	0.58
8:GO:360:PRO:O	8:GO:370:LYS:NZ	2.32	0.58
9:HF:309:ARG:NH2	9:HF:339:SER:O	2.36	0.58
9:HJ:262:ARG:HH21	9:HJ:418:LEU:HB2	1.69	0.58
8:HK:323:VAL:HG22	8:HK:373:ARG:HG2	1.83	0.58
9:HL:198:GLU:HB2	9:HL:266:PHE:HE2	1.69	0.58
9:HN:8:GLN:HE21	9:HN:14:ASN:HA	1.68	0.58
8:HO:11:GLN:HE21	8:HO:15:GLN:HE22	1.51	0.58
9:HP:268:PRO:HG2	9:HP:300:MET:HB2	1.86	0.58
8:IC:352:LYS:NZ	9:ID:177:ASP:O	2.36	0.58
8:IE:183:GLU:HA	8:IE:186:ASN:HD22	1.68	0.58
9:IJ:165:ASN:HD21	9:IJ:250:LEU:HD13	1.69	0.58
9:IN:407:GLU:HA	9:IN:410:GLU:HB2	1.86	0.58
8:JC:139:HIS:O	8:JC:170:ALA:HA	2.03	0.58
8:JE:180:ALA:HB3	8:JE:183:GLU:HB2	1.85	0.58
8:JI:88:HIS:HB3	8:JI:91:GLN:HG3	1.85	0.58
9:JN:274:THR:HB	9:JN:278:SER:HB2	1.85	0.58
8:JQ:211:ASP:HB3	8:JQ:215:ARG:HE	1.69	0.58
8:KA:292:THR:HG21	8:KA:331:ALA:HB1	1.85	0.58
9:KB:178:THR:HB	9:KB:181:GLU:HG2	1.86	0.58
9:KF:309:ARG:HG3	9:KF:426:GLN:HG3	1.84	0.58
8:KG:360:PRO:O	8:KG:370:LYS:NZ	2.37	0.58
9:KP:1:MET:SD	9:KP:2:ARG:N	2.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LI:262:TYR:OH	9:LJ:391:ARG:O	2.22	0.58
8:LK:175:PRO:O	8:LK:394:LYS:NZ	2.34	0.58
9:MF:372:THR:HG21	9:MF:426:GLN:HB2	1.86	0.58
9:MH:27:GLU:OE2	9:MH:241:ARG:NH2	2.35	0.58
8:MK:258:ASN:ND2	8:MK:258:ASN:N	2.52	0.58
9:MN:263:LEU:HB3	9:MN:422:TYR:HE2	1.68	0.58
8:MO:116:ASP:N	8:MO:116:ASP:OD1	2.33	0.58
15:N2:42:ARG:NH1	15:N2:103:GLN:O	2.36	0.58
9:NB:346:PRO:HD2	8:NC:398:MET:HE2	1.86	0.58
9:ND:8:GLN:NE2	9:ND:14:ASN:O	2.37	0.58
8:NE:320:ARG:HD3	8:NE:360:PRO:HG3	1.85	0.58
8:NG:118:VAL:O	8:NG:122:ILE:HG13	2.04	0.58
8:NG:286:LEU:HG	8:NG:373:ARG:HH21	1.68	0.58
8:NK:284:GLU:N	8:NK:284:GLU:OE2	2.37	0.58
8:NK:311:LYS:H	8:NK:382:THR:HG22	1.68	0.58
8:NO:217:LEU:HB3	8:NO:219:ILE:HG22	1.85	0.58
9:OB:173:PRO:HG2	9:OB:174:LYS:HD3	1.86	0.58
8:OK:107:HIS:HA	8:OK:152:LEU:HD23	1.86	0.58
9:OL:150:LEU:HG	9:OL:154:LYS:HE2	1.85	0.58
9:OL:237:THR:OG1	9:OL:241:ARG:NH1	2.36	0.58
27:P4:175:LEU:HD23	27:P4:176:MET:HG2	1.86	0.58
8:QG:264:ARG:NH1	8:QG:431:ASP:OD2	2.37	0.58
9:QL:305:PRO:HB2	9:QL:310:TYR:HE1	1.68	0.58
11:R1:209:PRO:O	11:R1:212:SER:OG	2.20	0.58
11:R1:315:HIS:HB3	11:R2:202:LYS:HB2	1.86	0.58
11:R4:128:VAL:O	11:R4:130:ARG:NH2	2.34	0.58
8:RI:102:ASN:HD22	8:RI:105:ARG:HG3	1.69	0.58
12:S1:474:MET:SD	12:S1:474:MET:N	2.77	0.58
8:SA:70:LEU:HB3	8:SA:98:ASP:HA	1.85	0.58
8:SG:317:MET:HE1	8:SG:375:VAL:HG23	1.86	0.58
8:SI:285:GLN:HE22	8:SI:287:SER:HB3	1.69	0.58
9:SJ:146:GLY:O	9:SJ:149:THR:OG1	2.22	0.58
9:SL:362:LYS:HG2	9:SL:363:MET:SD	2.43	0.58
9:SL:387:ALA:HA	9:SL:390:ARG:HH21	1.69	0.58
14:T4:67:ALA:O	14:T4:71:ARG:HG3	2.04	0.58
8:TA:53:PHE:O	8:TA:64:ARG:NH1	2.36	0.58
25:U:345:TYR:CZ	25:U:369:VAL:HG12	2.38	0.58
30:U0:339:THR:HB	30:U0:473:ARG:HH22	1.68	0.58
30:U7:347:ILE:HD13	30:U7:466:LYS:HE2	1.86	0.58
9:UL:207:LEU:HD13	9:UL:228:LEU:HD22	1.83	0.58
8:UM:107:HIS:HA	8:UM:152:LEU:HD23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UO:23:LEU:HD21	8:UO:236:SER:HB2	1.86	0.58
30:V0:343:PHE:O	30:V0:347:ILE:HG12	2.04	0.58
30:V1:350:GLU:HG2	30:V1:462:LEU:HG	1.86	0.58
8:WI:53:PHE:HB3	8:WI:61:HIS:HB3	1.86	0.58
34:X6:123:VAL:HG11	34:X6:198:LEU:HD21	1.86	0.58
34:X6:203:TYR:OH	34:X6:231:PRO:HD3	2.03	0.58
34:X8:76:PHE:N	34:X8:89:VAL:O	2.37	0.58
41:b5:324:GLN:O	41:b5:328:ILE:HG12	2.04	0.58
42:e:115:GLU:HB3	42:e:129:LEU:HG	1.83	0.58
42:e:548:ILE:HD12	42:e:562:THR:HB	1.85	0.58
8:AC:51:THR:HG21	8:AC:243:ARG:HG2	1.84	0.58
9:AJ:238:THR:HG21	9:AJ:318:ARG:HD2	1.86	0.58
10:B:109:LYS:HA	10:B:112:GLN:HG3	1.84	0.58
11:B2:295:GLY:HA2	11:B2:298:ARG:NH1	2.19	0.58
11:B4:403:LYS:NZ	28:Q4:84:ASP:O	2.36	0.58
9:BF:404:ASP:HB2	9:BF:406:MET:HE3	1.85	0.58
8:BM:286:LEU:HA	8:BM:290:GLU:OE1	2.03	0.58
12:C2:188:THR:HG22	12:C2:336:MET:HE1	1.85	0.58
12:C3:353:GLU:HG3	11:R3:73:ARG:HH22	1.68	0.58
9:CB:41:ASP:OD2	40:a1:97:LYS:NZ	2.35	0.58
9:CB:164:MET:N	9:CB:197:ASP:OD2	2.37	0.58
8:CE:221:ARG:HH21	17:I:296:TYR:HB3	1.69	0.58
8:CG:256:GLN:HE21	9:CH:397:TRP:HH2	1.51	0.58
14:D2:425:ILE:O	14:D2:429:LYS:HG2	2.03	0.58
9:DF:28:HIS:HA	9:DF:43:GLN:HB3	1.86	0.58
8:EI:264:ARG:HH12	8:EI:428:LEU:HD22	1.69	0.58
9:EL:170:VAL:HG11	9:EL:377:LEU:HD11	1.86	0.58
9:EN:323:MET:SD	8:EO:210:TYR:OH	2.55	0.58
8:EO:292:THR:HG21	8:EO:331:ALA:HB1	1.86	0.58
9:FH:219:THR:HG23	25:V:457:ARG:NH2	2.18	0.58
8:FK:3:GLU:OE2	8:FK:64:ARG:NH2	2.36	0.58
8:GE:215:ARG:NH2	8:GE:299:ALA:O	2.37	0.58
9:GL:372:THR:HG21	9:GL:426:GLN:HB2	1.86	0.58
8:HC:53:PHE:HA	8:HC:62:VAL:O	2.04	0.58
8:HC:437:VAL:O	9:HD:391:ARG:NH2	2.26	0.58
9:HD:290:THR:OG1	9:HD:329:GLN:OE1	2.13	0.58
8:HE:53:PHE:O	8:HE:64:ARG:NH1	2.37	0.58
8:HE:203:MET:N	8:HE:203:MET:SD	2.76	0.58
8:HK:121:ARG:HH12	8:HK:125:LEU:HG	1.68	0.58
17:I:215:ARG:HD2	17:I:244:MET:HG3	1.86	0.58
9:IB:117:LEU:HA	9:IB:120:VAL:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IC:264:ARG:NH1	8:IC:431:ASP:OD2	2.37	0.58
9:ID:273:LEU:O	9:ID:292:GLN:NE2	2.37	0.58
9:IH:165:ASN:OD1	9:IH:198:GLU:HB2	2.04	0.58
8:II:151:SER:HA	8:II:193:THR:HG21	1.85	0.58
8:IO:155:GLU:OE1	8:IO:156:ARG:NH1	2.37	0.58
9:IP:309:ARG:NH2	9:IP:339:SER:O	2.36	0.58
9:IP:412:GLU:OE2	9:IP:416:ASN:ND2	2.37	0.58
19:J3:108:GLN:NE2	9:NH:56:GLY:O	2.36	0.58
9:JB:30:ILE:HG13	9:JB:51:TYR:HE2	1.69	0.58
9:JB:69:GLU:HG2	9:JB:71:GLY:H	1.67	0.58
9:JB:170:VAL:HG11	9:JB:377:LEU:HD21	1.85	0.58
8:JE:395:PHE:HA	8:JE:398:MET:HE3	1.86	0.58
9:JF:207:LEU:HD13	9:JF:225:LEU:HG	1.86	0.58
8:JO:258:ASN:ND2	8:JO:352:LYS:HE2	2.19	0.58
9:JP:247:ASN:O	9:JP:252:LYS:NZ	2.36	0.58
8:KA:3:GLU:HA	8:KA:51:THR:HA	1.86	0.58
8:KM:50:ASN:O	8:KM:64:ARG:NH1	2.37	0.58
8:KM:56:THR:HG23	8:KM:58:ALA:H	1.69	0.58
9:KN:245:GLN:O	8:KO:11:GLN:NE2	2.37	0.58
8:MK:258:ASN:HB3	9:ML:179:VAL:HG22	1.85	0.58
9:ML:152:ILE:HG23	9:ML:164:MET:HE1	1.84	0.58
9:ML:247:ASN:ND2	8:MM:71:GLU:OE2	2.37	0.58
8:MM:345:ASP:N	8:MM:345:ASP:OD1	2.36	0.58
25:O5:250:ASP:OD1	40:a4:159:ARG:NH1	2.37	0.58
8:OC:147:SER:OG	8:OC:190:THR:OG1	2.17	0.58
9:OD:248:ALA:HA	9:OD:252:LYS:HD3	1.86	0.58
26:P2:68:PHE:H	26:P2:71:GLN:HB3	1.69	0.58
27:P6:163:ARG:HH12	30:U3:316:ARG:CB	2.17	0.58
9:PD:118:ASP:OD1	9:PD:121:ARG:NH2	2.35	0.58
8:PE:437:VAL:O	9:PF:391:ARG:NH2	2.29	0.58
9:PJ:389:PHE:HZ	9:PJ:405:GLU:HG3	1.69	0.58
8:QC:25:CYS:HB2	8:QC:30:ILE:HB	1.85	0.58
8:QC:52:PHE:HE2	8:QC:243:ARG:HD3	1.69	0.58
8:QC:221:ARG:NH2	8:QC:222:PRO:O	2.37	0.58
8:QG:360:PRO:O	8:QG:370:LYS:NZ	2.36	0.58
9:RH:379:LYS:HD3	9:RH:419:VAL:HG21	1.85	0.58
8:RK:320:ARG:HD3	8:RK:360:PRO:HG3	1.85	0.58
12:S1:312:GLN:HG2	12:S1:315:ARG:HH21	1.68	0.58
12:S9:317:ALA:HA	12:S9:320:LYS:HD3	1.85	0.58
8:SA:36:MET:N	8:SA:36:MET:SD	2.76	0.58
8:SI:320:ARG:HE	8:SI:360:PRO:HG3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SI:384:ILE:HG12	8:SI:388:TRP:HE1	1.68	0.58
9:SJ:32:PRO:O	9:SJ:83:GLN:NE2	2.36	0.58
8:SM:102:ASN:HB3	8:SM:105:ARG:HB2	1.86	0.58
14:T0:78:ARG:HE	14:T1:335:GLN:HB2	1.69	0.58
9:UD:7:LEU:N	9:UD:134:GLN:O	2.36	0.58
9:UF:252:LYS:NZ	8:UG:101:ASN:OD1	2.27	0.58
8:UK:239:THR:OG1	8:UK:243:ARG:NH1	2.34	0.58
9:UN:207:LEU:HB3	9:UN:225:LEU:HD22	1.84	0.58
25:V:456:VAL:HB	25:V:459:SER:HB3	1.84	0.58
30:V3:198:ARG:NE	30:V3:212:GLU:OE1	2.36	0.58
8:VI:122:ILE:HD13	8:VI:125:LEU:HD13	1.84	0.58
9:VJ:111:GLU:HG2	9:VJ:112:LEU:HD22	1.86	0.58
8:WE:248:LEU:HB2	8:WE:355:ILE:HG22	1.84	0.58
9:WH:130:LEU:O	9:WH:162:ARG:NH1	2.35	0.58
9:WH:325:GLU:OE2	8:WI:221:ARG:NH1	2.36	0.58
9:WJ:274:THR:OG1	9:WJ:282:ARG:NH1	2.37	0.58
9:WN:207:LEU:HB3	9:WN:225:LEU:HG	1.86	0.58
31:X:190:GLN:N	31:X:190:GLN:OE1	2.37	0.58
31:X:533:MET:N	31:X:533:MET:HE2	2.18	0.58
37:YF:62:ARG:NH1	37:YF:62:ARG:O	2.35	0.58
42:g:478:THR:O	42:g:485:CYS:HA	2.03	0.58
44:h4:111:PRO:HB2	44:h4:113:ILE:HG12	1.86	0.58
4:j1:20:LYS:HG3	4:j1:22:GLN:H	1.69	0.58
2:2:263:PRO:HA	2:2:291:GLY:HA2	1.85	0.58
7:A1:317:LEU:HD23	33:X4:143:ILE:HD11	1.86	0.58
9:AD:356:ILE:HD12	33:X4:175:MET:HB2	1.86	0.58
9:AN:133:PHE:HB2	9:AN:164:MET:HE1	1.86	0.58
8:AO:97:GLU:OE2	8:AO:105:ARG:NH1	2.29	0.58
8:BC:298:PRO:HG3	8:BC:308:ARG:HE	1.68	0.58
8:BE:288:VAL:HG11	8:BE:327:ASP:HB3	1.85	0.58
8:BI:88:HIS:HD2	8:CI:283:HIS:HB2	1.69	0.58
9:BJ:166:THR:HG23	9:BJ:199:THR:HG23	1.85	0.58
8:CI:25:CYS:HB3	8:CI:30:ILE:HB	1.85	0.58
8:CK:326:LYS:NZ	9:CL:220:PRO:HG2	2.19	0.58
8:CO:239:THR:OG1	8:CO:243:ARG:NH1	2.37	0.58
8:CQ:107:HIS:HA	8:CQ:152:LEU:HD23	1.85	0.58
14:D3:341:GLN:NE2	25:V:61:GLU:HB2	2.18	0.58
8:DG:320:ARG:HD3	8:DG:360:PRO:HG3	1.86	0.58
9:DL:323:MET:HE1	8:DM:224:TYR:CZ	2.39	0.58
9:ED:149:THR:HB	9:ED:191:GLN:HG2	1.86	0.58
8:FC:85:GLN:O	8:GC:283:HIS:NE2	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FG:70:LEU:HB3	8:FG:98:ASP:HA	1.86	0.58
8:FM:157:LEU:HD22	8:FM:166:LYS:HD3	1.85	0.58
8:GC:188:ILE:O	8:GC:191:THR:OG1	2.21	0.58
8:GE:88:HIS:CD2	8:GE:90:GLU:HB3	2.39	0.58
9:GF:173:PRO:HG3	9:GF:380:ARG:HH11	1.69	0.58
8:GI:90:GLU:HG2	8:GI:121:ARG:NH1	2.19	0.58
8:GM:437:VAL:O	9:GN:391:ARG:NH2	2.30	0.58
8:HE:70:LEU:HB3	8:HE:98:ASP:HA	1.86	0.58
8:HI:88:HIS:HD2	8:HI:89:PRO:HD2	1.69	0.58
9:HL:324:LYS:O	9:HL:328:GLU:N	2.36	0.58
8:IA:324:VAL:HG21	9:IB:219:THR:HB	1.86	0.58
9:IH:381:ILE:O	9:IH:385:PHE:N	2.37	0.58
9:IP:7:LEU:HB3	9:IP:135:LEU:HB2	1.85	0.58
9:IP:54:ALA:HB3	9:IP:58:LYS:HB3	1.86	0.58
8:KG:286:LEU:O	8:KG:373:ARG:NH1	2.37	0.58
9:KN:376:GLU:HG2	9:KN:380:ARG:HH12	1.69	0.58
9:LH:346:PRO:HD3	8:LI:397:LEU:HD11	1.86	0.58
9:LJ:31:ASP:OD2	9:LJ:35:THR:OG1	2.20	0.58
8:LM:49:PHE:HD2	8:LM:53:PHE:HB2	1.69	0.58
9:LN:426:GLN:O	44:h4:67:ARG:NH1	2.37	0.58
22:M1:146:ARG:HG2	25:T:180:THR:HG23	1.86	0.58
8:MM:85:GLN:OE1	8:MM:85:GLN:N	2.26	0.58
9:MN:68:LEU:HG	9:MN:147:MET:HE1	1.86	0.58
8:MO:121:ARG:HH12	8:MO:125:LEU:HG	1.69	0.58
8:NA:167:LEU:HD11	8:NA:256:GLN:HE21	1.69	0.58
17:O8:151:PRO:HA	17:O8:154:LEU:HB2	1.85	0.58
8:OG:272:TYR:HE1	8:OG:374:ALA:HB1	1.69	0.58
8:OK:142:GLY:HA2	8:OK:183:GLU:HG3	1.86	0.58
8:OM:5:ILE:HD12	8:OM:135:PHE:HE1	1.69	0.58
8:OM:207:GLU:HA	8:OM:210:TYR:HD1	1.69	0.58
8:PI:275:VAL:HA	8:PI:368:LEU:HD11	1.85	0.58
8:PM:132:LEU:O	8:PM:164:LYS:NZ	2.35	0.58
8:PO:9:VAL:HA	8:PO:68:VAL:HG23	1.85	0.58
8:QI:254:GLU:HG2	9:QJ:98:GLY:HA2	1.86	0.58
11:R1:107:ASN:ND2	14:T4:163:GLN:OE1	2.36	0.58
9:RD:16:ILE:HD11	9:RD:136:THR:HB	1.86	0.58
9:RD:273:LEU:O	9:RD:292:GLN:NE2	2.36	0.58
9:RD:276:ARG:NH1	9:RD:279:GLN:OE1	2.36	0.58
8:RE:169:PHE:HA	8:RE:202:PHE:HB2	1.85	0.58
8:RI:289:ALA:O	8:RI:293:ASN:ND2	2.37	0.58
9:SB:165:ASN:OD1	9:SB:200:TYR:OH	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SC:53:PHE:O	8:SC:64:ARG:NH1	2.37	0.58
9:SF:68:LEU:HB3	9:SF:96:GLY:HA2	1.84	0.58
9:SH:165:ASN:HD21	9:SH:250:LEU:HD11	1.69	0.58
9:SH:274:THR:HB	9:SH:278:SER:HB2	1.86	0.58
9:SH:388:MET:N	9:SH:388:MET:SD	2.76	0.58
8:TG:186:ASN:O	8:TG:190:THR:OG1	2.20	0.58
9:TH:86:ARG:NH2	9:UH:281:TYR:O	2.24	0.58
9:TH:323:MET:HA	9:TH:326:VAL:HB	1.86	0.58
9:TL:270:PHE:HB3	9:TL:273:LEU:HD21	1.85	0.58
9:UD:55:THR:OG1	39:a:286:MET:SD	2.62	0.58
9:UJ:322:SER:O	8:UK:221:ARG:NH2	2.36	0.58
30:V3:244:ARG:NH1	30:V3:247:GLN:OE1	2.36	0.58
30:V5:332:MET:HE2	30:V5:479:THR:HG23	1.85	0.58
9:VN:214:THR:HB	9:VN:215:LEU:HD22	1.86	0.58
8:WC:254:GLU:HG2	9:WD:98:GLY:HA2	1.84	0.58
34:X6:240:CYS:O	34:X6:243:LEU:N	2.36	0.58
35:XF:124:ARG:NH1	35:XF:126:ASP:OD1	2.37	0.58
43:h:109:ASN:O	43:h:113:VAL:HG23	2.04	0.58
46:i4:1451:TRP:HA	46:i4:1454:MET:HG2	1.86	0.58
2:2:320:PRO:O	8:IK:221:ARG:NH1	2.37	0.57
2:2:383:ALA:O	8:IM:221:ARG:NH1	2.37	0.57
5:8:59:MET:HE2	5:8:59:MET:O	2.03	0.57
9:AH:361:LEU:HD11	33:X4:275:LEU:HD12	1.86	0.57
8:AI:88:HIS:NE2	8:BI:283:HIS:HB2	2.19	0.57
9:AP:63:ALA:HB3	9:AP:85:PHE:HE1	1.68	0.57
11:B3:408:VAL:HG12	11:B3:409:ASP:H	1.69	0.57
11:B4:131:ASP:OD1	11:B4:131:ASP:N	2.36	0.57
8:BC:188:ILE:O	8:BC:191:THR:OG1	2.22	0.57
8:BI:32:PRO:HD2	8:BI:33:ASP:N	2.16	0.57
10:C:249:GLN:OE1	10:C:252:GLN:NE2	2.37	0.57
12:C1:83:PHE:HE2	12:C2:200:PHE:HB2	1.67	0.57
9:CB:5:VAL:HB	9:CB:133:PHE:HD1	1.67	0.57
8:CC:79:ARG:NH1	40:a1:107:GLY:O	2.37	0.57
8:CE:317:MET:HA	8:CE:317:MET:HE3	1.86	0.57
9:CH:60:VAL:HG11	9:DH:281:TYR:HB3	1.84	0.57
9:CH:170:VAL:HG21	9:CH:201:CYS:HB2	1.84	0.57
9:CH:372:THR:HG21	9:CH:426:GLN:HB2	1.86	0.57
9:CL:273:LEU:O	9:CL:292:GLN:NE2	2.36	0.57
14:D2:257:TRP:O	14:D2:261:ASN:ND2	2.37	0.57
8:DQ:70:LEU:HB3	8:DQ:98:ASP:HA	1.86	0.57
9:EB:73:MET:SD	9:EB:73:MET:N	2.77	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FA:90:GLU:HG2	8:FA:121:ARG:HD2	1.86	0.57
8:FA:188:ILE:HG13	8:FA:395:PHE:CD1	2.39	0.57
8:FI:119:LEU:HB3	36:Y2:142:TYR:HE2	1.69	0.57
8:FK:195:LEU:HD21	8:FK:428:LEU:HD21	1.86	0.57
8:FK:211:ASP:HA	8:FK:214:ARG:HG2	1.84	0.57
9:GD:309:ARG:NH2	9:GD:339:SER:O	2.37	0.57
9:GJ:118:ASP:OD1	9:GJ:121:ARG:NH2	2.34	0.57
8:HA:274:PRO:HG3	8:HA:286:LEU:HD21	1.85	0.57
8:HA:316:CYS:HB3	8:HA:378:LEU:HB2	1.86	0.57
8:HI:194:THR:O	8:HI:266:HIS:NE2	2.35	0.57
8:HK:316:CYS:HB3	8:HK:378:LEU:HB2	1.84	0.57
8:HO:346:TRP:H	8:HO:346:TRP:CD1	2.22	0.57
9:IB:3:GLU:OE2	9:IB:48:ASN:ND2	2.36	0.57
9:IB:156:ARG:O	9:IB:156:ARG:NH1	2.36	0.57
9:IB:262:ARG:HH21	9:IB:418:LEU:HB2	1.68	0.57
8:IE:139:HIS:O	8:IE:170:ALA:HA	2.04	0.57
19:J2:72:ARG:N	8:OC:218:ASP:OD2	2.31	0.57
19:J3:54:ARG:HB2	19:J3:57:MET:HG2	1.84	0.57
9:JF:412:GLU:OE2	9:JF:416:ASN:ND2	2.37	0.57
8:JG:200:CYS:HA	8:JG:266:HIS:HB2	1.86	0.57
9:JH:417:ASP:O	9:JH:421:GLU:HG2	2.03	0.57
20:K2:118:HIS:N	20:K2:121:THR:OG1	2.37	0.57
9:KB:73:MET:HE3	9:KB:73:MET:HA	1.85	0.57
9:KB:399:THR:HG23	44:h1:123:PRO:HD3	1.86	0.57
8:KC:322:ASP:OD2	8:KC:373:ARG:NH2	2.36	0.57
9:KF:24:ILE:HA	9:KF:27:GLU:HG3	1.85	0.57
8:KG:59:GLY:HA3	29:S:332:ARG:NH2	2.18	0.57
8:KM:97:GLU:OE2	8:KM:97:GLU:N	2.37	0.57
8:KO:36:MET:HE2	8:KO:36:MET:HA	1.86	0.57
8:KO:264:ARG:HH12	8:KO:428:LEU:HD22	1.69	0.57
9:KP:5:VAL:HG22	9:KP:62:ARG:HD2	1.86	0.57
8:LA:276:ILE:HD11	8:LA:286:LEU:HD11	1.86	0.57
9:LJ:237:THR:HG22	9:LJ:250:LEU:HD21	1.86	0.57
8:MA:298:PRO:HA	8:MA:301:GLN:HG2	1.86	0.57
8:ME:392:ASP:O	8:ME:422:ARG:NH1	2.30	0.57
9:MH:48:ASN:O	9:MH:62:ARG:NH2	2.37	0.57
8:NC:239:THR:HG23	8:NC:242:LEU:HD12	1.86	0.57
9:NF:335:ASN:O	9:NF:338:SER:OG	2.22	0.57
8:NG:186:ASN:O	8:NG:190:THR:OG1	2.19	0.57
8:NG:348:PRO:HD2	9:NH:388:MET:HE3	1.84	0.57
8:NK:154:MET:SD	8:NK:197:HIS:HB3	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NN:267:MET:HE1	9:NN:373:ALA:HB3	1.86	0.57
8:NO:153:LEU:HD22	8:NO:156:ARG:HH22	1.67	0.57
8:OC:133:GLN:C	8:OC:133:GLN:HE21	2.12	0.57
9:OF:252:LYS:O	9:OF:350:LYS:NZ	2.36	0.57
9:ON:150:LEU:HG	9:ON:154:LYS:HE2	1.85	0.57
9:ON:376:GLU:HA	9:ON:379:LYS:HE2	1.86	0.57
26:P1:49:HIS:HB2	26:P1:55:ARG:HB3	1.86	0.57
9:PB:1:MET:HE2	8:PC:72:PRO:HG3	1.86	0.57
8:PC:264:ARG:NH1	8:PC:431:ASP:OD2	2.38	0.57
9:PD:252:LYS:NZ	8:PE:98:ASP:OD2	2.33	0.57
8:PG:107:HIS:HA	8:PG:152:LEU:HD23	1.84	0.57
8:PI:292:THR:HG21	8:PI:331:ALA:HB1	1.86	0.57
28:Q5:63:TRP:CZ3	12:S9:309:LEU:HD11	2.39	0.57
9:QB:286:VAL:HG22	9:QB:321:MET:CE	2.34	0.57
8:QO:292:THR:HG21	8:QO:331:ALA:HB1	1.86	0.57
8:RG:388:TRP:HB3	8:RG:425:LEU:HD21	1.85	0.57
8:RM:212:ILE:HA	8:RM:215:ARG:HB2	1.86	0.57
8:RM:353:VAL:HB	9:RN:177:ASP:HB2	1.85	0.57
12:S3:202:ARG:NH2	12:S3:216:GLU:OE1	2.36	0.57
12:S6:183:ARG:HA	12:S6:186:ILE:HD12	1.86	0.57
8:SG:28:HIS:HB2	8:SG:30:ILE:HD11	1.86	0.57
14:T2:57:PHE:HB3	30:W0:405:VAL:HG11	1.86	0.57
8:TI:311:LYS:H	8:TI:382:THR:HG22	1.68	0.57
9:TN:117:LEU:HB3	9:TN:121:ARG:HH21	1.67	0.57
9:UF:269:GLY:N	9:UF:367:PHE:O	2.37	0.57
8:UI:154:MET:N	8:UI:154:MET:SD	2.76	0.57
9:UN:61:PRO:HD3	9:UN:84:ILE:HG22	1.86	0.57
25:V:448:MET:HE2	25:V:469:ARG:HB3	1.85	0.57
8:VK:154:MET:HE1	8:VK:194:THR:HA	1.84	0.57
9:VL:318:ARG:HG2	9:VL:358:PRO:HD3	1.86	0.57
30:W0:198:ARG:HH21	30:W0:201:ARG:HH21	1.52	0.57
30:W0:231:LYS:HA	30:W0:234:LYS:HD3	1.85	0.57
9:WF:276:ARG:NE	9:WF:276:ARG:O	2.37	0.57
8:WI:286:LEU:O	8:WI:373:ARG:NH1	2.36	0.57
8:WK:51:THR:HG21	8:WK:243:ARG:HG2	1.86	0.57
8:WK:120:ASP:OD2	8:WK:121:ARG:NH2	2.36	0.57
34:X8:74:HIS:HB2	34:X8:91:GLU:HB3	1.86	0.57
39:a6:111:ARG:HH11	39:a6:114:TRP:HE1	1.51	0.57
41:b3:185:ARG:NH2	41:b3:189:GLU:O	2.29	0.57
43:k:126:VAL:HG13	43:k:132:ASP:H	1.68	0.57
47:p:449:ASP:OD1	47:p:449:ASP:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:91:GLU:N	1:0:91:GLU:OE1	2.37	0.57
7:A0:341:ILE:HG12	7:A1:206:ARG:NH1	2.17	0.57
9:AH:244:GLY:H	9:AH:247:ASN:HD21	1.50	0.57
9:AL:31:ASP:OD1	9:AL:35:THR:N	2.37	0.57
8:AO:319:TYR:HB3	8:AO:323:VAL:HG11	1.85	0.57
11:B3:323:TYR:HD1	28:Q2:137:MET:HE1	1.68	0.57
11:B4:7:LYS:HE3	14:D5:329:ILE:HG13	1.86	0.57
8:BK:72:PRO:HB3	17:L:286:MET:HG2	1.85	0.57
9:DB:130:LEU:O	9:DB:162:ARG:NH1	2.35	0.57
8:DC:62:VAL:HG13	8:EA:283:HIS:HB3	1.85	0.57
9:DH:5:VAL:HB	9:DH:133:PHE:HD1	1.67	0.57
8:DQ:214:ARG:HH22	8:DQ:215:ARG:HH21	1.52	0.57
9:EF:337:ASN:HB3	9:EF:340:TYR:HD2	1.69	0.57
8:FA:259:LEU:HD21	8:FA:316:CYS:HB2	1.86	0.57
8:FE:203:MET:N	8:FE:203:MET:SD	2.77	0.57
8:FG:139:HIS:O	8:FG:170:ALA:HA	2.05	0.57
8:FK:70:LEU:HB3	8:FK:98:ASP:HA	1.84	0.57
9:FN:118:ASP:OD1	36:Y2:54:ARG:NH1	2.29	0.57
9:GD:213:ARG:NH2	9:GD:297:LYS:HE3	2.19	0.57
8:GI:345:ASP:N	8:GI:345:ASP:OD1	2.35	0.57
9:GJ:336:LYS:HE2	36:Y2:123:SER:HB3	1.84	0.57
9:HF:172:SER:OG	9:HF:205:GLU:OE1	2.21	0.57
8:HG:160:ASP:HA	36:Y1:178:LYS:NZ	2.19	0.57
9:HH:125:GLU:OE2	9:IH:336:LYS:NZ	2.37	0.57
9:HL:170:VAL:HG11	9:HL:377:LEU:HD11	1.86	0.57
9:HP:3:GLU:OE1	9:HP:3:GLU:N	2.37	0.57
8:II:406:HIS:HA	8:II:409:VAL:HG22	1.86	0.57
8:IM:214:ARG:HH12	36:Y1:77:LEU:HB3	1.68	0.57
9:IN:226:ASN:OD1	52:IN:502:GDP:N1	2.37	0.57
8:IO:55:GLU:OE1	8:IO:61:HIS:HE1	1.87	0.57
8:IO:55:GLU:OE2	8:IO:61:HIS:CE1	2.57	0.57
8:JI:147:SER:O	8:JI:151:SER:OG	2.22	0.57
8:JK:326:LYS:HD3	9:JL:220:PRO:HG2	1.86	0.57
9:JN:2:ARG:NH1	8:JO:97:GLU:HA	2.14	0.57
17:K:13:GLU:O	17:K:15:HIS:ND1	2.34	0.57
8:KE:124:LYS:NZ	8:LE:297:GLU:OE2	2.36	0.57
9:KH:170:VAL:HG21	9:KH:377:LEU:HD11	1.86	0.57
9:KJ:247:ASN:ND2	8:KK:73:THR:OG1	2.37	0.57
9:KL:262:ARG:HE	9:KL:418:LEU:HD13	1.69	0.57
9:KP:165:ASN:ND2	9:KP:200:TYR:OH	2.37	0.57
8:LA:345:ASP:OD1	8:LA:345:ASP:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:292:THR:HG21	8:LE:331:ALA:HB1	1.86	0.57
9:LH:313:VAL:HB	9:LH:349:VAL:HG22	1.85	0.57
8:LM:320:ARG:HD3	8:LM:360:PRO:HG3	1.85	0.57
9:MF:17:GLY:HA2	9:MF:20:PHE:HB3	1.85	0.57
9:MH:372:THR:HG21	9:MH:426:GLN:HB2	1.84	0.57
9:MJ:323:MET:HA	9:MJ:326:VAL:HG12	1.85	0.57
9:MN:337:ASN:HB3	9:MN:340:TYR:HD2	1.69	0.57
9:ND:173:PRO:HG2	9:ND:174:LYS:HD3	1.85	0.57
8:NE:2:ARG:HH22	9:NF:71:GLY:HA3	1.68	0.57
9:NF:122:LYS:HD2	9:NF:123:GLU:HG2	1.86	0.57
8:NI:292:THR:HG21	8:NI:331:ALA:HB1	1.84	0.57
24:O3:176:PRO:HG2	24:O3:179:TYR:HD2	1.69	0.57
8:OA:286:LEU:O	8:OA:373:ARG:NH1	2.37	0.57
8:OC:327:ASP:N	8:OC:327:ASP:OD1	2.35	0.57
9:OF:273:LEU:O	9:OF:292:GLN:NE2	2.36	0.57
8:OG:188:ILE:O	8:OG:191:THR:OG1	2.22	0.57
9:OJ:67:ASP:O	9:OJ:92:PHE:HA	2.04	0.57
8:OK:394:LYS:HE3	8:OK:398:MET:HE3	1.84	0.57
8:OO:168:GLU:O	8:OO:201:ALA:HA	2.04	0.57
9:PD:67:ASP:HA	9:PD:143:THR:HG21	1.86	0.57
8:PI:188:ILE:O	8:PI:191:THR:OG1	2.22	0.57
9:PJ:130:LEU:O	9:PJ:162:ARG:NH1	2.35	0.57
9:PN:323:MET:HA	9:PN:326:VAL:HB	1.86	0.57
8:QG:147:SER:OG	8:QG:190:THR:OG1	2.20	0.57
9:QN:167:PHE:CG	9:QN:233:MET:HE1	2.37	0.57
8:RG:339:ARG:HH21	8:RG:342:GLN:HG2	1.69	0.57
9:RH:330:MET:SD	9:RH:331:LEU:N	2.76	0.57
8:RK:88:HIS:CE1	8:RK:90:GLU:HB3	2.38	0.57
9:RL:15:GLN:NE2	52:RL:502:GDP:N7	2.49	0.57
8:RO:75:VAL:HG12	8:RO:79:ARG:HE	1.69	0.57
9:SB:252:LYS:HG3	8:SC:101:ASN:HD21	1.70	0.57
8:SC:346:TRP:HH2	9:SD:390:ARG:HB3	1.68	0.57
8:SE:318:LEU:HB2	8:SE:376:CYS:HB3	1.86	0.57
8:SI:429:GLU:HA	8:SI:432:TYR:CD2	2.38	0.57
8:SK:7:ILE:HD13	8:SK:137:ILE:HG13	1.84	0.57
8:SK:30:ILE:HD12	8:SK:30:ILE:H	1.69	0.57
8:SM:76:ASP:HA	8:SM:79:ARG:HE	1.68	0.57
9:SN:238:THR:HG21	9:SN:318:ARG:HD3	1.86	0.57
25:T:188:ARG:NH1	25:T:192:ASP:OD2	2.37	0.57
14:T3:102:LYS:HZ3	14:T4:376:ARG:HD2	1.69	0.57
9:TB:166:THR:HG23	9:TB:199:THR:HG23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TC:324:VAL:HG12	8:TC:326:LYS:H	1.69	0.57
9:TD:113:VAL:HG12	9:TD:117:LEU:HG	1.86	0.57
9:TF:114:ASP:N	9:TF:114:ASP:OD1	2.36	0.57
9:TJ:8:GLN:HB3	9:TJ:65:LEU:HA	1.86	0.57
9:TN:337:ASN:HB3	9:TN:340:TYR:HD2	1.68	0.57
30:U0:410:ASP:HB2	30:U0:412:PRO:HD2	1.86	0.57
9:UB:6:HIS:HA	9:UB:134:GLN:HG3	1.86	0.57
8:UC:28:HIS:NE2	8:UC:49:PHE:HB3	2.19	0.57
9:UD:322:SER:OG	8:UE:222:PRO:O	2.21	0.57
9:UJ:309:ARG:NH2	9:UJ:339:SER:O	2.37	0.57
8:UM:370:LYS:NZ	39:d:474:HIS:O	2.37	0.57
30:V3:402:ARG:HD2	30:V3:406:GLU:HG3	1.84	0.57
30:V7:340:ASN:OD1	30:V7:473:ARG:HD3	2.04	0.57
8:VC:2:ARG:HB3	8:VC:242:LEU:HD23	1.87	0.57
8:VE:2:ARG:NH2	8:VE:242:LEU:HG	2.19	0.57
8:VE:90:GLU:OE1	8:VE:121:ARG:NH1	2.36	0.57
9:VH:150:LEU:HG	9:VH:154:LYS:HE2	1.85	0.57
8:VK:209:ILE:HG21	8:VK:227:LEU:HG	1.86	0.57
8:WA:123:ARG:NH2	8:WA:160:ASP:OD1	2.36	0.57
8:WC:96:LYS:HE3	39:a6:86:MET:HE1	1.87	0.57
8:WC:345:ASP:OD1	8:WC:345:ASP:N	2.37	0.57
8:WG:117:LEU:HD12	8:WG:121:ARG:HH21	1.69	0.57
8:WO:53:PHE:HB3	8:WO:61:HIS:HB3	1.86	0.57
31:X:138:TYR:HD1	31:X:139:PRO:HD2	1.68	0.57
34:X7:80:GLU:OE1	34:X7:87:TYR:N	2.35	0.57
35:XB:20:LYS:HG3	35:XB:23:GLN:HB2	1.86	0.57
36:Y0:19:ILE:HG22	36:Y0:20:MET:H	1.70	0.57
37:YH:27:THR:H	37:YH:30:ALA:HB3	1.69	0.57
41:b3:241:ARG:NH2	41:b3:287:GLY:O	2.37	0.57
39:c:151:GLN:O	39:c:155:THR:HG23	2.04	0.57
42:g:586:HIS:CE1	42:g:612:LEU:HG	2.40	0.57
43:h:185:MET:HE1	43:h:252:ILE:C	2.29	0.57
48:s:91:GLU:OE2	48:s:91:GLU:N	2.35	0.57
49:y:81:LYS:HE3	49:y:96:SER:HA	1.85	0.57
2:2:267:ARG:NH1	2:2:268:PRO:O	2.37	0.57
1:7:47:LEU:HB3	9:IB:1:MET:HE3	1.87	0.57
6:A:43:ARG:HH22	9:JF:83:GLN:NE2	2.02	0.57
9:AF:268:PRO:HG2	9:AF:300:MET:HG3	1.86	0.57
11:B1:106:LYS:NZ	11:B1:251:ASN:OD1	2.37	0.57
9:BD:221:THR:HG23	9:BD:223:GLY:H	1.69	0.57
8:BE:129:CYS:SG	8:BE:130:THR:N	2.78	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BH:320:ARG:NH2	17:K:269:HIS:O	2.37	0.57
8:BI:2:ARG:HB3	8:BI:242:LEU:HD23	1.86	0.57
8:BO:68:VAL:HG12	8:BO:93:ILE:HB	1.85	0.57
8:CM:27:GLU:HG2	8:CM:243:ARG:NH2	2.19	0.57
9:CN:311:LEU:HG	9:CN:312:THR:HG23	1.84	0.57
8:CQ:317:MET:HE3	8:CQ:351:PHE:HD1	1.69	0.57
8:DC:320:ARG:HD3	8:DC:360:PRO:HG3	1.84	0.57
8:DE:269:LEU:HD22	8:DE:303:VAL:HG21	1.87	0.57
9:DL:318:ARG:HD3	9:DL:358:PRO:HD3	1.86	0.57
9:EB:347:ASN:O	8:EC:181:VAL:HG12	2.03	0.57
8:EG:39:ASP:OD1	25:V:514:LYS:NZ	2.37	0.57
9:EH:8:GLN:HE21	9:EH:14:ASN:HA	1.68	0.57
9:EN:8:GLN:HE21	9:EN:14:ASN:HA	1.70	0.57
15:F:103:GLN:HG2	6:N1:51:MET:HE1	1.85	0.57
9:FB:156:ARG:NH1	9:FB:197:ASP:OD1	2.33	0.57
8:FG:295:CYS:HB3	8:FG:377:MET:SD	2.44	0.57
8:FI:320:ARG:HD3	8:FI:360:PRO:HG3	1.86	0.57
8:FK:262:TYR:OH	9:FL:391:ARG:O	2.22	0.57
8:FO:88:HIS:CE1	8:FO:90:GLU:HB3	2.39	0.57
8:GE:388:TRP:HB3	8:GE:425:LEU:HD21	1.87	0.57
8:GG:249:ASN:OD1	9:GH:11:GLN:NE2	2.37	0.57
8:GO:53:PHE:O	8:GO:64:ARG:NH1	2.37	0.57
9:HB:26:ASP:HB3	9:HB:359:ARG:HH21	1.70	0.57
8:HC:255:PHE:HA	8:HC:258:ASN:OD1	2.04	0.57
9:HD:131:GLN:NE2	9:HD:249:ASP:OD2	2.37	0.57
9:HH:137:HIS:ND1	9:HH:144:GLY:O	2.37	0.57
9:HL:309:ARG:NH2	9:HL:339:SER:O	2.36	0.57
8:HM:69:ASP:OD1	8:HM:70:LEU:N	2.37	0.57
8:HM:102:ASN:HB3	8:HM:105:ARG:HB2	1.86	0.57
8:HO:286:LEU:HB3	8:HO:291:ILE:HD11	1.86	0.57
9:HP:48:ASN:O	9:HP:62:ARG:NH2	2.38	0.57
9:IB:146:GLY:O	9:IB:149:THR:OG1	2.21	0.57
9:IB:187:LEU:HD11	9:IB:408:PHE:HE1	1.69	0.57
8:IC:60:LYS:HD3	9:JD:281:TYR:CE2	2.40	0.57
8:IC:60:LYS:HD3	9:JD:281:TYR:HE2	1.68	0.57
8:IK:269:LEU:HD22	8:IK:303:VAL:HG21	1.85	0.57
8:IK:298:PRO:HG3	36:Y1:106:TYR:CG	2.38	0.57
8:IO:316:CYS:SG	8:IO:352:LYS:HE3	2.44	0.57
19:J4:72:ARG:N	8:OK:218:ASP:OD2	2.36	0.57
9:JF:17:GLY:HA2	9:JF:20:PHE:HB3	1.85	0.57
8:JG:154:MET:HE3	8:JG:154:MET:HA	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JL:8:GLN:HB3	9:JL:65:LEU:HA	1.86	0.57
8:JM:7:ILE:HB	8:JM:137:ILE:HG12	1.87	0.57
8:KC:225:THR:O	8:KC:229:ARG:HG2	2.04	0.57
9:KJ:31:ASP:OD1	9:KJ:35:THR:N	2.37	0.57
9:KL:330:MET:HA	9:KL:333:VAL:HG12	1.86	0.57
8:KO:138:PHE:CD1	8:KO:169:PHE:HB3	2.40	0.57
9:LD:190:HIS:CD2	43:i:63:LEU:HD21	2.39	0.57
9:LD:311:LEU:HD12	9:LD:342:VAL:HG11	1.86	0.57
9:LF:346:PRO:HD3	8:LG:397:LEU:HD11	1.86	0.57
8:LG:264:ARG:NH1	8:LG:431:ASP:OD2	2.37	0.57
8:LM:206:ASN:OD1	50:LM:501:GTP:N2	2.36	0.57
9:MJ:66:VAL:HG12	9:MJ:147:MET:HE3	1.86	0.57
8:MK:206:ASN:OD1	50:MK:501:GTP:N2	2.37	0.57
17:N:276:TYR:OH	17:N:288:PHE:O	2.21	0.57
9:NB:316:VAL:HG22	9:NB:352:ALA:HB3	1.86	0.57
8:NC:50:ASN:O	8:NC:64:ARG:NH1	2.38	0.57
9:NF:324:LYS:HE3	8:NG:222:PRO:HD2	1.85	0.57
8:NM:60:LYS:HG2	8:NM:60:LYS:O	2.03	0.57
8:OA:319:TYR:CE2	8:OA:328:VAL:HG13	2.39	0.57
8:OC:245:ASP:HA	8:OC:249:ASN:HD21	1.69	0.57
9:OF:63:ALA:HB3	9:OF:85:PHE:HE1	1.69	0.57
9:OH:270:PHE:CE2	9:OH:272:PRO:HD2	2.39	0.57
8:OI:215:ARG:NH2	36:Y4:73:ASN:O	2.33	0.57
8:OK:4:CYS:HB2	8:OK:52:PHE:HE1	1.70	0.57
9:PL:10:GLY:O	9:PL:14:ASN:ND2	2.37	0.57
9:PL:267:MET:N	9:PL:267:MET:SD	2.77	0.57
8:PM:34:GLY:O	8:PM:61:HIS:ND1	2.37	0.57
28:Q2:22:PHE:CE2	12:S3:438:LEU:HD11	2.38	0.57
9:QL:165:ASN:HB2	9:QL:200:TYR:HE2	1.70	0.57
9:QP:118:ASP:OD1	9:QP:121:ARG:NH2	2.37	0.57
8:RC:437:VAL:O	9:RD:391:ARG:NH2	2.37	0.57
8:RM:289:ALA:HA	8:RM:292:THR:HG22	1.85	0.57
9:RN:183:TYR:O	9:RN:187:LEU:HG	2.04	0.57
12:S3:468:ILE:O	12:S3:472:LYS:HG2	2.05	0.57
9:SL:273:LEU:O	9:SL:292:GLN:NE2	2.36	0.57
9:TD:363:MET:HA	9:TD:363:MET:HE3	1.86	0.57
8:TE:275:VAL:HA	8:TE:368:LEU:HD11	1.86	0.57
9:TH:113:VAL:HG11	9:TH:150:LEU:HD23	1.85	0.57
9:TH:274:THR:HB	9:TH:278:SER:HB2	1.86	0.57
9:TJ:192:LEU:HD21	9:TJ:199:THR:HG21	1.86	0.57
25:U:345:TYR:OH	25:U:370:THR:OG1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UA:153:LEU:O	8:UA:157:LEU:HD23	2.03	0.57
8:UI:33:ASP:OD1	8:UI:34:GLY:N	2.37	0.57
9:UJ:156:ARG:NH1	9:UJ:197:ASP:OD1	2.31	0.57
8:UM:2:ARG:HH22	9:UN:70:PRO:HD2	1.68	0.57
30:V2:416:LEU:HA	30:V2:419:GLU:HG2	1.87	0.57
9:VD:1:MET:HE2	8:VE:72:PRO:HG3	1.86	0.57
9:VD:337:ASN:HB3	9:VD:340:TYR:HD2	1.69	0.57
8:VG:4:CYS:SG	8:VG:136:LEU:HD22	2.45	0.57
31:W:178:LEU:HD22	31:W:183:ILE:HD12	1.87	0.57
31:W:488:LYS:HB2	31:W:500:GLU:HG3	1.87	0.57
31:W:635:PHE:HD2	31:W:698:ASN:HB2	1.69	0.57
8:WO:317:MET:HE3	8:WO:318:LEU:N	2.19	0.57
31:X:560:ARG:HH12	31:X:564:GLN:HB2	1.70	0.57
31:Y:153:ASN:HD21	31:Y:185:LEU:HA	1.69	0.57
37:YH:114:GLY:O	37:YH:118:MET:HG2	2.05	0.57
17:Z3:225:VAL:HB	17:Z3:228:PHE:HB2	1.86	0.57
41:b2:240:GLU:HG3	41:b2:241:ARG:HD2	1.86	0.57
42:e:335:VAL:HG23	42:e:609:GLY:HA2	1.85	0.57
42:g:59:PHE:O	42:g:101:ARG:NH2	2.37	0.57
43:h:126:VAL:HG13	43:h:132:ASP:H	1.69	0.57
45:i1:77:ALA:HA	45:i1:111:PRO:HB3	1.85	0.57
1:0:95:GLN:HG3	8:JQ:225:THR:HG21	1.87	0.57
2:1:617:LEU:HA	8:IE:42:ILE:HD13	1.85	0.57
7:A0:300:GLU:HG2	7:A0:301:ASN:H	1.68	0.57
7:A4:97:ARG:NH2	7:A4:402:GLY:O	2.37	0.57
8:AA:203:MET:HE2	8:AA:267:PHE:CD1	2.40	0.57
8:AA:286:LEU:O	8:AA:373:ARG:NH1	2.38	0.57
8:AE:431:ASP:OD1	35:XC:102:ARG:NH1	2.35	0.57
8:AG:1:MET:SD	8:AG:2:ARG:N	2.76	0.57
8:AG:209:ILE:HD12	8:AG:227:LEU:HD23	1.86	0.57
8:AK:210:TYR:HE1	8:AK:227:LEU:HD21	1.68	0.57
9:AL:309:ARG:HG3	9:AL:426:GLN:HG2	1.85	0.57
9:AN:31:ASP:OD1	9:AN:35:THR:N	2.38	0.57
11:B4:96:LYS:HE3	11:B4:159:PHE:HB2	1.85	0.57
9:BB:88:ASP:OD2	9:BB:122:LYS:NZ	2.37	0.57
9:BH:91:VAL:HG21	9:BH:116:VAL:HG12	1.86	0.57
8:BM:203:MET:H	8:BM:203:MET:HE3	1.70	0.57
9:CB:7:LEU:N	9:CB:134:GLN:O	2.30	0.57
9:CF:247:ASN:O	9:CF:252:LYS:NZ	2.37	0.57
8:CI:84:ARG:HE	40:a2:12:PRO:HB2	1.69	0.57
8:CO:318:LEU:HB2	8:CO:376:CYS:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CQ:21:TRP:HA	8:CQ:24:TYR:CD1	2.39	0.57
9:DB:5:VAL:HB	9:DB:133:PHE:HD1	1.70	0.57
9:EB:245:GLN:O	8:EC:11:GLN:NE2	2.37	0.57
9:ED:257:MET:SD	9:ED:314:ALA:HB2	2.44	0.57
9:ED:323:MET:SD	9:ED:323:MET:N	2.59	0.57
8:FA:339:ARG:HH21	8:FA:342:GLN:HG2	1.70	0.57
8:FE:194:THR:O	8:FE:266:HIS:NE2	2.36	0.57
8:FO:136:LEU:HB3	8:FO:138:PHE:HE1	1.69	0.57
8:GA:241:SER:OG	8:GA:250:VAL:O	2.20	0.57
9:GJ:309:ARG:HG3	9:GJ:426:GLN:HG3	1.86	0.57
8:GO:150:ALA:HA	8:GO:153:LEU:HG	1.84	0.57
8:HA:107:HIS:HB3	8:HA:108:TYR:CD2	2.39	0.57
9:HB:337:ASN:HB3	9:HB:340:TYR:HD2	1.70	0.57
8:HI:46:ASP:N	8:HI:46:ASP:OD1	2.37	0.57
8:HK:137:ILE:HG21	8:HK:154:MET:HE1	1.87	0.57
8:IA:251:ASP:H	8:IA:254:GLU:HG3	1.68	0.57
8:II:238:ILE:HD11	8:II:378:LEU:HD21	1.86	0.57
9:IJ:295:ASP:HB2	36:Y1:125:SER:HB3	1.86	0.57
19:J2:28:ILE:HG22	19:J2:30:PRO:HD2	1.84	0.57
9:JL:211:CYS:HB3	9:JL:220:PRO:HG3	1.85	0.57
9:JL:247:ASN:O	9:JL:252:LYS:NZ	2.36	0.57
9:KD:295:ASP:OD2	9:KD:297:LYS:HE3	2.04	0.57
8:LA:286:LEU:O	8:LA:373:ARG:NH1	2.37	0.57
9:LB:50:TYR:HE2	9:LB:241:ARG:HH11	1.52	0.57
8:LE:108:TYR:O	8:LE:112:LYS:NZ	2.34	0.57
9:LL:279:GLN:NE2	29:S:192:ASP:OD2	2.34	0.57
9:LP:68:LEU:HB3	9:LP:96:GLY:HA2	1.86	0.57
9:MF:347:ASN:ND2	8:MG:178:SER:HB2	2.20	0.57
8:MK:298:PRO:HG3	8:MK:308:ARG:HH22	1.68	0.57
9:NB:167:PHE:HE2	9:NB:233:MET:HB3	1.70	0.57
9:NP:309:ARG:NH2	9:NP:339:SER:O	2.36	0.57
8:OE:147:SER:OG	8:OE:190:THR:OG1	2.18	0.57
9:OJ:207:LEU:HB3	9:OJ:225:LEU:HG	1.86	0.57
8:OM:394:LYS:HZ1	8:OM:398:MET:HE3	1.70	0.57
26:P1:45:ASN:ND2	26:P1:67:THR:OG1	2.38	0.57
9:PH:164:MET:HA	9:PH:164:MET:HE2	1.86	0.57
8:PK:147:SER:OG	8:PK:190:THR:OG1	2.18	0.57
9:PL:150:LEU:HG	9:PL:154:LYS:HE2	1.86	0.57
28:Q3:24:ASP:HB2	12:S8:435:GLN:HE22	1.68	0.57
28:Q4:146:GLY:N	12:S8:109:GLU:OE2	2.37	0.57
9:QF:54:ALA:HA	9:RF:283:ALA:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RD:48:ASN:O	9:RD:62:ARG:NH2	2.38	0.57
9:RJ:156:ARG:NH1	9:RJ:197:ASP:OD1	2.36	0.57
8:RO:274:PRO:HG2	8:RO:371:VAL:HG21	1.87	0.57
12:S2:279:GLU:HG3	14:T2:41:LEU:O	2.04	0.57
12:S8:391:ALA:HA	12:S8:394:LYS:HG3	1.86	0.57
14:T2:8:LEU:HD21	14:T2:11:GLU:HG3	1.86	0.57
8:TC:56:THR:HG23	8:TC:58:ALA:H	1.68	0.57
8:TC:345:ASP:N	8:TC:345:ASP:OD1	2.37	0.57
9:TD:143:THR:O	9:TD:148:GLY:N	2.35	0.57
8:TE:317:MET:HA	8:TE:317:MET:HE2	1.86	0.57
9:TJ:54:ALA:HB3	9:TJ:58:LYS:HB3	1.87	0.57
8:UC:116:ASP:N	8:UC:116:ASP:OD1	2.35	0.57
8:UO:370:LYS:H	39:d:427:GLN:HE22	1.53	0.57
30:V6:280:PHE:HB2	30:V7:393:GLN:HB3	1.86	0.57
8:VE:2:ARG:HB3	8:VE:242:LEU:HD23	1.87	0.57
30:W7:140:ARG:NH1	30:W7:301:ASN:OD1	2.36	0.57
8:WA:80:THR:HA	8:WA:84:ARG:HD3	1.87	0.57
9:WF:50:TYR:HE1	9:WF:241:ARG:HD3	1.69	0.57
8:WO:120:ASP:OD2	8:WO:121:ARG:NH2	2.32	0.57
33:X5:1:MET:HB3	33:X5:2:MET:SD	2.45	0.57
34:X7:181:GLU:HB2	34:X7:188:TYR:HB3	1.85	0.57
35:XD:129:TRP:HB3	35:XD:183:LEU:HD21	1.85	0.57
35:XG:78:MET:HG2	35:XG:165:VAL:HG22	1.86	0.57
31:Y:367:LYS:HD3	40:a3:75:VAL:HG21	1.85	0.57
31:Y:591:MET:HB2	31:Y:593:LYS:HE3	1.87	0.57
41:b3:242:LEU:HD21	41:b3:252:LEU:HD21	1.85	0.57
39:c:246:ARG:HG3	39:c:249:LYS:HE3	1.85	0.57
42:e:68:SER:N	42:e:82:GLY:O	2.38	0.57
47:p:167:GLN:NE2	47:p:171:ASN:OD1	2.37	0.57
47:p:540:LYS:O	47:p:545:PHE:N	2.37	0.57
4:6:127:GLU:OE1	4:6:281:ARG:NH2	2.34	0.57
7:A4:275:ARG:NH2	7:A4:276:ASN:OD1	2.38	0.57
9:AH:281:TYR:HB3	9:MH:60:VAL:HG11	1.86	0.57
9:AJ:41:ASP:N	9:AJ:41:ASP:OD1	2.37	0.57
8:AM:215:ARG:NH2	48:s:87:LYS:O	2.37	0.57
8:AO:183:GLU:HA	8:AO:186:ASN:HD22	1.70	0.57
9:AP:336:LYS:HE3	9:AP:337:ASN:CG	2.30	0.57
11:B4:202:LYS:HG2	11:B5:315:HIS:HB3	1.87	0.57
9:BF:86:ARG:HA	9:CF:281:TYR:HD2	1.67	0.57
9:BF:170:VAL:HG11	9:BF:377:LEU:HD11	1.86	0.57
9:BL:273:LEU:O	9:BL:292:GLN:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:284:LEU:HD23	9:CD:363:MET:HE2	1.86	0.57
8:CM:88:HIS:HE2	8:DM:284:GLU:HG2	1.70	0.57
8:CQ:286:LEU:O	8:CQ:373:ARG:NH1	2.38	0.57
9:DB:324:LYS:HG2	8:DC:214:ARG:HH22	1.69	0.57
8:DO:287:SER:OG	8:DO:290:GLU:OE1	2.22	0.57
9:EB:41:ASP:N	9:EB:41:ASP:OD1	2.31	0.57
8:EG:2:ARG:HB2	8:EG:242:LEU:HD23	1.85	0.57
8:FC:116:ASP:OD1	8:FC:116:ASP:N	2.38	0.57
9:GB:173:PRO:HG3	9:GB:380:ARG:HH11	1.69	0.57
9:GD:403:MET:HA	9:GD:403:MET:HE3	1.85	0.57
8:GI:116:ASP:N	8:GI:116:ASP:OD1	2.36	0.57
8:HG:437:VAL:O	9:HH:391:ARG:NH2	2.37	0.57
9:HJ:204:ASN:HA	9:HJ:207:LEU:HD12	1.85	0.57
8:IC:132:LEU:O	8:IC:164:LYS:NZ	2.35	0.57
9:ID:221:THR:N	9:ID:224:ASP:OD1	2.30	0.57
9:ID:285:THR:HB	9:ID:287:PRO:HD2	1.87	0.57
9:IH:306:ARG:NH1	36:Y1:163:ILE:O	2.38	0.57
19:J2:36:LEU:HD22	19:J2:73:GLU:CD	2.29	0.57
19:J4:251:PHE:HD2	19:J4:257:ARG:HA	1.69	0.57
19:J4:270:VAL:HG22	19:J4:280:TYR:HB2	1.87	0.57
19:J5:136:ARG:NH1	9:KP:194:GLU:OE1	2.38	0.57
8:JC:287:SER:H	8:JC:290:GLU:HB2	1.70	0.57
8:JI:188:ILE:HG13	8:JI:395:PHE:CD1	2.40	0.57
9:JJ:29:GLY:O	9:JJ:37:HIS:N	2.33	0.57
9:JN:114:ASP:OD1	9:JN:115:SER:N	2.37	0.57
8:JQ:139:HIS:O	8:JQ:170:ALA:HA	2.04	0.57
8:JQ:169:PHE:HA	8:JQ:202:PHE:HB2	1.85	0.57
8:JQ:203:MET:HE1	8:JQ:267:PHE:HD1	1.69	0.57
20:K1:31:ARG:NH2	8:TA:46:ASP:OD2	2.37	0.57
8:KI:88:HIS:NE2	8:KI:90:GLU:HB3	2.19	0.57
9:LN:114:ASP:N	9:LN:114:ASP:OD1	2.32	0.57
8:LO:425:LEU:HA	8:LO:428:LEU:HB3	1.87	0.57
9:MD:1:MET:HE2	8:ME:72:PRO:HG3	1.86	0.57
8:MO:70:LEU:HB3	8:MO:98:ASP:HA	1.87	0.57
15:N2:52:ARG:O	15:N2:124:GLY:N	2.37	0.57
8:NC:183:GLU:HA	8:NC:186:ASN:HD22	1.69	0.57
8:NK:186:ASN:O	8:NK:190:THR:OG1	2.20	0.57
9:NL:72:THR:O	9:NL:75:SER:OG	2.20	0.57
8:NM:88:HIS:CD2	8:OM:283:HIS:HB3	2.40	0.57
9:NP:316:VAL:HG23	9:NP:352:ALA:HB3	1.85	0.57
9:OD:276:ARG:HA	9:OD:279:GLN:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OF:150:LEU:HG	9:OF:154:LYS:HE2	1.86	0.57
9:ON:58:LYS:NZ	9:ON:59:TYR:O	2.35	0.57
9:OP:150:LEU:HG	9:OP:154:LYS:HE2	1.87	0.57
27:P5:119:ALA:HA	27:P5:124:TYR:CE1	2.40	0.57
27:P5:134:CYS:O	27:P5:136:MET:HG2	2.05	0.57
9:PD:306:ARG:HA	9:PD:340:TYR:HE1	1.69	0.57
28:Q2:9:THR:OG1	28:Q2:10:ARG:N	2.29	0.57
8:QG:320:ARG:HD3	8:QG:360:PRO:HG3	1.87	0.57
9:QN:252:LYS:HD3	8:QO:100:ALA:HA	1.85	0.57
11:R0:323:TYR:CE1	14:T4:205:ARG:HG2	2.39	0.57
9:RH:372:THR:HA	9:RH:422:TYR:HE1	1.69	0.57
9:RN:198:GLU:HB2	9:RN:266:PHE:HE2	1.68	0.57
8:RO:317:MET:N	8:RO:317:MET:HE2	2.20	0.57
12:S0:71:ARG:O	12:S0:74:ARG:N	2.37	0.57
8:SC:25:CYS:HA	8:SC:30:ILE:HD13	1.87	0.57
9:SF:325:GLU:H	8:SG:221:ARG:HH22	1.52	0.57
8:SG:36:MET:HE3	8:SG:61:HIS:ND1	2.19	0.57
14:T1:50:LYS:HZ1	14:T2:173:GLU:HG2	1.69	0.57
8:TA:311:LYS:HA	8:TA:342:GLN:HE21	1.69	0.57
9:TB:292:GLN:NE2	9:TB:298:ASN:OD1	2.38	0.57
8:TE:7:ILE:HA	8:TE:66:VAL:HG12	1.87	0.57
9:TH:296:ALA:O	9:TH:299:MET:HE2	2.04	0.57
30:U0:194:CYS:HB3	30:U0:215:LEU:HD21	1.87	0.57
30:U2:120:SER:HA	30:U2:123:ILE:HG22	1.87	0.57
30:U3:386:GLU:HG2	30:U4:279:PHE:HZ	1.69	0.57
30:U6:280:PHE:HB2	30:U7:393:GLN:HB3	1.86	0.57
30:U9:208:HIS:CE1	30:U9:213:LYS:HG2	2.40	0.57
8:UA:176:GLN:NE2	8:UA:207:GLU:OE2	2.37	0.57
9:UB:316:VAL:HG22	9:UB:352:ALA:HB3	1.86	0.57
9:UH:39:ASP:OD1	9:UH:40:SER:N	2.37	0.57
30:V7:411:VAL:O	30:V7:415:ARG:HG2	2.04	0.57
30:V9:441:LEU:O	30:V9:445:VAL:HG23	2.05	0.57
8:VA:239:THR:OG1	8:VA:243:ARG:NH1	2.38	0.57
8:VM:70:LEU:HD13	8:VM:95:GLY:HA3	1.85	0.57
8:VM:326:LYS:HG3	9:VN:220:PRO:HD2	1.86	0.57
9:VN:213:ARG:NH1	9:VN:297:LYS:O	2.37	0.57
31:W:496:SER:O	31:W:497:GLU:HG2	2.04	0.57
30:W2:198:ARG:HD3	30:W2:201:ARG:HE	1.70	0.57
9:WD:130:LEU:O	9:WD:162:ARG:NH1	2.31	0.57
9:WH:423:GLN:NE2	9:WH:427:ASP:OD1	2.37	0.57
9:WJ:247:ASN:O	9:WJ:252:LYS:NZ	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WK:326:LYS:HE3	9:WL:219:THR:HA	1.87	0.57
8:WO:7:ILE:HD12	8:WO:137:ILE:HG12	1.87	0.57
34:X8:116:PHE:HA	34:X8:119:ILE:HG12	1.85	0.57
35:XA:24:ILE:HG12	35:XA:61:CYS:HB2	1.86	0.57
35:XD:75:PHE:HB3	35:XD:133:GLN:HE22	1.69	0.57
31:Y:57:HIS:H	31:Y:135:ARG:HH22	1.52	0.57
39:a:112:ILE:HD12	39:a:115:ALA:HB3	1.86	0.57
41:b3:365:MET:O	41:b3:369:GLN:N	2.35	0.57
42:f:416:HIS:HD2	42:f:420:VAL:HG22	1.69	0.57
45:i1:90:ASP:O	45:i1:94:LYS:N	2.35	0.57
46:i2:1400:ILE:O	46:i2:1404:VAL:N	2.37	0.57
2:1:487:TRP:CD1	2:1:489:HIS:H	2.22	0.57
3:3:66:TRP:CZ3	9:JN:70:PRO:HB2	2.39	0.57
7:A0:338:ILE:HA	7:A1:206:ARG:NH2	2.20	0.57
7:A3:171:LEU:HD11	7:A3:228:ALA:HB2	1.86	0.57
9:AB:2:ARG:HB3	9:AB:131:GLN:HE22	1.70	0.57
11:B5:405:VAL:CG1	12:S9:320:LYS:HD2	2.33	0.57
8:BE:123:ARG:O	8:BE:123:ARG:NH1	2.38	0.57
8:BE:431:ASP:O	8:BE:435:VAL:HG23	2.05	0.57
8:BI:269:LEU:HD21	8:BI:384:ILE:HD12	1.86	0.57
8:BO:51:THR:HG21	8:BO:243:ARG:HG2	1.87	0.57
8:CI:139:HIS:NE2	8:CI:168:GLU:OE2	2.37	0.57
8:CM:260:VAL:HB	9:CN:397:TRP:HZ2	1.70	0.57
8:CM:292:THR:HG21	8:CM:331:ALA:HB1	1.87	0.57
9:CP:83:GLN:O	9:DP:281:TYR:OH	2.21	0.57
14:D2:245:SER:OG	12:S6:51:ARG:NH1	2.37	0.57
14:D4:175:GLU:OE1	14:D4:296:GLN:NE2	2.37	0.57
9:DB:377:LEU:HA	9:DB:380:ARG:HE	1.70	0.57
8:DG:327:ASP:N	8:DG:327:ASP:OD1	2.37	0.57
8:DM:322:ASP:OD2	8:DM:373:ARG:NH2	2.37	0.57
8:DO:302:MET:N	8:DO:302:MET:SD	2.78	0.57
9:DP:322:SER:OG	8:DQ:222:PRO:O	2.21	0.57
9:EJ:8:GLN:HE21	9:EJ:14:ASN:HA	1.70	0.57
9:FD:73:MET:HG2	9:FD:92:PHE:CE1	2.39	0.57
9:FJ:178:THR:HB	9:FJ:181:GLU:HB3	1.85	0.57
8:FK:195:LEU:HD11	8:FK:428:LEU:HD11	1.87	0.57
8:GA:7:ILE:HD12	8:GA:137:ILE:HG12	1.87	0.57
9:GB:147:MET:HE2	9:GB:151:LEU:HD21	1.87	0.57
8:GE:154:MET:HA	8:GE:157:LEU:HB3	1.87	0.57
8:GE:241:SER:HB2	8:GE:250:VAL:H	1.68	0.57
9:GL:270:PHE:HB3	9:GL:273:LEU:HD11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GM:317:MET:HE1	8:GM:377:MET:HE2	1.85	0.57
8:HA:49:PHE:HD2	8:HA:53:PHE:HB2	1.69	0.57
9:HL:216:LYS:HD3	9:HL:275:SER:HB3	1.87	0.57
9:IH:182:PRO:HG2	9:IH:388:MET:HE3	1.86	0.57
9:JD:58:LYS:NZ	9:JD:59:TYR:O	2.25	0.57
8:JG:63:PRO:HG2	8:JG:87:PHE:HA	1.86	0.57
9:JH:198:GLU:HA	9:JH:264:HIS:HB2	1.85	0.57
8:JI:246:GLY:HA2	8:JI:357:TYR:CE2	2.39	0.57
9:JJ:194:GLU:OE1	9:JJ:194:GLU:N	2.31	0.57
8:KC:360:PRO:O	8:KC:370:LYS:NZ	2.37	0.57
9:KH:52:ASN:OD1	9:KH:62:ARG:NH1	2.38	0.57
8:LC:279:GLU:N	8:LC:279:GLU:OE2	2.38	0.57
9:LF:114:ASP:OD1	9:LF:115:SER:N	2.35	0.57
9:LF:276:ARG:HD2	29:S:369:PHE:HZ	1.70	0.57
9:LF:390:ARG:NH1	43:i:94:HIS:HB3	2.19	0.57
9:LJ:346:PRO:HD3	8:LK:397:LEU:HD11	1.86	0.57
9:MD:313:VAL:HB	9:MD:349:VAL:HG13	1.86	0.57
8:MO:275:VAL:HA	8:MO:368:LEU:HD11	1.86	0.57
8:NC:289:ALA:O	8:NC:293:ASN:ND2	2.36	0.57
9:ND:156:ARG:NH1	9:ND:156:ARG:O	2.37	0.57
9:ND:186:THR:HG23	9:ND:415:MET:HE1	1.86	0.57
8:NE:278:ALA:HA	8:NE:369:ALA:HB2	1.86	0.57
8:NG:207:GLU:HG2	8:NG:304:LYS:HE3	1.87	0.57
9:NN:198:GLU:HB2	9:NN:266:PHE:HE2	1.70	0.57
8:OE:402:ARG:NH2	8:OE:415:GLU:OE2	2.37	0.57
9:OF:58:LYS:HE3	9:PF:280:GLN:NE2	2.19	0.57
8:OI:297:GLU:O	8:OI:301:GLN:NE2	2.34	0.57
9:ON:7:LEU:N	9:ON:134:GLN:O	2.37	0.57
26:P1:114:MET:N	26:P1:114:MET:SD	2.76	0.57
8:PG:70:LEU:HD12	8:PG:95:GLY:HA3	1.87	0.57
9:PN:289:LEU:O	9:PN:292:GLN:N	2.37	0.57
9:QB:331:LEU:HG	8:QC:176:GLN:HE22	1.68	0.57
8:QC:33:ASP:N	8:QC:33:ASP:OD1	2.36	0.57
8:QE:51:THR:HG21	8:QE:243:ARG:HG2	1.87	0.57
9:QH:164:MET:N	9:QH:164:MET:SD	2.77	0.57
11:R1:114:ILE:HG12	14:T4:413:GLU:OE2	2.05	0.57
11:R3:255:ASP:OD1	11:R3:258:ARG:NH2	2.32	0.57
11:R4:409:ASP:O	11:R4:409:ASP:CG	2.42	0.57
8:RG:377:MET:HE3	8:RG:378:LEU:H	1.70	0.57
8:RM:3:GLU:H	8:RM:133:GLN:HG2	1.69	0.57
12:S2:279:GLU:CD	14:T2:42:ALA:HB3	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S5:164:LEU:HD11	14:T4:246:LYS:HE3	1.86	0.57
12:S8:362:HIS:HE2	14:T1:46:PHE:HE1	1.52	0.57
8:SC:91:GLN:NE2	8:SC:121:ARG:HD2	2.19	0.57
8:SM:324:VAL:HG12	8:SM:326:LYS:H	1.68	0.57
25:T:151:ARG:O	33:X4:57:TYR:OH	2.17	0.57
14:T2:23:PRO:HD2	14:T2:23:PRO:O	2.05	0.57
9:TF:54:ALA:HA	9:UF:283:ALA:HB2	1.87	0.57
8:TK:186:ASN:O	8:TK:190:THR:OG1	2.20	0.57
8:UC:152:LEU:O	8:UC:156:ARG:NH1	2.38	0.57
8:UG:188:ILE:O	8:UG:191:THR:OG1	2.21	0.57
30:V5:478:SER:OG	30:V5:481:ARG:HB2	2.04	0.57
30:V6:210:ASN:O	30:V6:214:ASN:ND2	2.38	0.57
30:V7:324:LEU:O	30:V7:328:LEU:HD22	2.03	0.57
9:VF:10:GLY:O	9:VF:14:ASN:ND2	2.37	0.57
9:VF:101:TRP:HB2	9:VF:184:ASN:HB2	1.85	0.57
8:VK:2:ARG:HB3	8:VK:242:LEU:HD23	1.86	0.57
8:VM:255:PHE:O	8:VM:259:LEU:HB2	2.04	0.57
9:VN:54:ALA:HB3	9:VN:58:LYS:HB3	1.87	0.57
30:W0:174:LYS:HB2	30:W0:236:ILE:HG21	1.86	0.57
8:WG:339:ARG:HH21	8:WG:342:GLN:HG2	1.70	0.57
9:WJ:48:ASN:O	9:WJ:62:ARG:NH2	2.37	0.57
9:WL:249:ASP:H	9:WL:252:LYS:HB2	1.70	0.57
9:WN:51:TYR:HB3	9:WN:59:TYR:HB3	1.86	0.57
8:WO:93:ILE:HD11	8:WO:121:ARG:HG3	1.86	0.57
31:Y:432:ASN:HB3	31:Y:458:LEU:HD12	1.87	0.57
41:b2:227:LEU:O	41:b2:231:ARG:HG2	2.05	0.57
42:e:561:VAL:HG11	42:e:602:ILE:HD13	1.86	0.57
46:i3:1401:GLN:HG3	46:i3:1437:TYR:HD2	1.70	0.57
4:j1:176:PRO:HB3	4:j1:252:THR:HG21	1.87	0.57
48:q:149:HIS:ND1	48:q:155:GLY:HA3	2.20	0.57
8:AC:439:SER:H	9:AD:391:ARG:HH21	1.52	0.57
8:AI:175:PRO:HB2	8:AI:390:ARG:HH11	1.70	0.57
8:AK:70:LEU:HB3	8:AK:98:ASP:HA	1.85	0.57
9:AP:47:ILE:HG13	9:AP:51:TYR:HB2	1.87	0.57
8:BI:102:ASN:HB3	8:BI:105:ARG:HB2	1.86	0.57
9:BJ:130:LEU:O	9:BJ:162:ARG:NH1	2.37	0.57
8:BK:271:THR:HB	8:BK:377:MET:HB3	1.87	0.57
8:BM:47:ASP:N	8:BM:47:ASP:OD1	2.36	0.57
10:C:288:VAL:HG13	8:HM:44:GLY:HA3	1.87	0.57
8:CM:116:ASP:N	8:CM:116:ASP:OD1	2.34	0.57
14:D5:343:ILE:HG12	14:D5:392:LYS:HZ2	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DP:8:GLN:HB3	9:DP:65:LEU:HA	1.87	0.57
9:DP:156:ARG:NH1	9:DP:197:ASP:OD1	2.38	0.57
8:EA:286:LEU:HD11	8:EA:291:ILE:HG23	1.85	0.57
8:EE:107:HIS:HA	8:EE:152:LEU:HD23	1.86	0.57
8:EG:297:GLU:O	8:EG:301:GLN:NE2	2.33	0.57
9:EH:325:GLU:H	8:EI:221:ARG:NH2	1.99	0.57
9:EN:382:SER:HB2	9:EN:415:MET:HE1	1.87	0.57
8:FA:12:ALA:O	8:FA:16:ILE:HG12	2.04	0.57
8:FA:203:MET:HE1	8:FA:267:PHE:HB3	1.87	0.57
8:FE:271:THR:HB	8:FE:377:MET:HB3	1.84	0.57
8:FG:264:ARG:HH12	8:FG:428:LEU:HD22	1.70	0.57
8:FM:350:GLY:HA2	9:FN:179:VAL:HG13	1.85	0.57
16:G:99:GLN:HG3	9:HL:297:LYS:HZ3	1.70	0.57
8:GC:345:ASP:N	8:GC:345:ASP:OD1	2.38	0.57
9:GD:332:ASN:HB3	36:Y2:235:THR:HG23	1.87	0.57
9:GN:118:ASP:OD1	9:GN:121:ARG:NH2	2.33	0.57
8:HC:183:GLU:HA	8:HC:186:ASN:HD22	1.70	0.57
8:HM:349:THR:HG21	9:HN:176:SER:HB3	1.87	0.57
8:II:1:MET:HB3	8:II:2:ARG:HG3	1.85	0.57
8:IK:11:GLN:HG3	8:IK:74:VAL:HG11	1.86	0.57
8:IM:186:ASN:O	8:IM:190:THR:OG1	2.17	0.57
9:JB:5:VAL:HG12	9:JB:7:LEU:HD22	1.86	0.57
8:JE:211:ASP:HB3	8:JE:215:ARG:NH2	2.18	0.57
9:JP:221:THR:N	9:JP:224:ASP:OD2	2.38	0.57
8:KI:50:ASN:O	8:KI:64:ARG:NH1	2.38	0.57
8:KI:348:PRO:HD2	9:KJ:388:MET:HE2	1.87	0.57
8:KM:121:ARG:HH12	8:KM:125:LEU:HG	1.70	0.57
9:KP:198:GLU:HB2	9:KP:266:PHE:HE2	1.69	0.57
8:LA:339:ARG:NH1	41:b1:380:GLY:O	2.38	0.57
8:LE:332:ILE:HA	8:LE:335:ILE:HG22	1.87	0.57
9:LH:302:ALA:O	9:LH:380:ARG:NH2	2.37	0.57
9:LL:309:ARG:NH2	9:LL:339:SER:O	2.38	0.57
8:LM:317:MET:HB2	8:LM:353:VAL:HA	1.86	0.57
9:LN:193:VAL:HG21	9:LN:418:LEU:HD21	1.87	0.57
9:LN:251:ARG:NH2	8:LO:97:GLU:OE2	2.37	0.57
9:LP:130:LEU:O	9:LP:162:ARG:NH1	2.35	0.57
22:M4:195:TYR:OH	25:O5:318:GLN:OE1	2.13	0.57
8:MC:339:ARG:NH1	45:l:106:CYS:O	2.38	0.57
8:MG:186:ASN:O	8:MG:190:THR:OG1	2.21	0.57
8:MG:269:LEU:HD22	8:MG:303:VAL:HG21	1.86	0.57
9:MJ:118:ASP:OD1	9:MJ:121:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NA:245:ASP:HA	8:NA:249:ASN:HD21	1.68	0.57
8:NA:353:VAL:HB	9:NB:177:ASP:HB2	1.85	0.57
8:NC:264:ARG:NH1	8:NC:431:ASP:OD2	2.38	0.57
8:NG:53:PHE:O	8:NG:64:ARG:NH1	2.38	0.57
8:NK:276:ILE:HD13	8:NK:371:VAL:HG21	1.86	0.57
9:NN:26:ASP:HB3	9:NN:359:ARG:HH11	1.70	0.57
8:OA:154:MET:HE1	8:OA:166:LYS:HD2	1.86	0.57
8:OA:437:VAL:O	9:OB:391:ARG:NH2	2.28	0.57
8:OC:200:CYS:HA	8:OC:266:HIS:HB2	1.85	0.57
9:OJ:73:MET:HA	9:OJ:76:VAL:HG22	1.87	0.57
9:OP:48:ASN:O	9:OP:62:ARG:NH2	2.38	0.57
9:PD:86:ARG:NH1	9:QD:277:GLY:O	2.28	0.57
9:PD:248:ALA:HA	9:PD:252:LYS:HG3	1.87	0.57
9:PF:7:LEU:N	9:PF:134:GLN:O	2.36	0.57
8:PI:147:SER:OG	8:PI:190:THR:OG1	2.15	0.57
9:PJ:83:GLN:O	9:QJ:281:TYR:OH	2.18	0.57
8:PM:102:ASN:HB3	8:PM:105:ARG:HB2	1.86	0.57
9:QB:320:ARG:O	9:QB:321:MET:HG2	2.05	0.57
8:QE:107:HIS:HA	8:QE:152:LEU:HD23	1.87	0.57
11:R4:409:ASP:O	11:R4:411:PHE:N	2.38	0.57
8:RC:339:ARG:NH2	8:RC:342:GLN:HG2	2.19	0.57
9:RD:174:LYS:HG3	9:RD:175:VAL:HG23	1.86	0.57
8:RK:150:ALA:O	8:RK:154:MET:HG2	2.04	0.57
9:RN:54:ALA:HB3	9:RN:58:LYS:HB3	1.87	0.57
9:SD:125:GLU:OE1	9:TD:336:LYS:NZ	2.37	0.57
9:SH:17:GLY:HA2	9:SH:20:PHE:HB3	1.87	0.57
14:T4:252:SER:HG	14:T4:256:THR:HG1	1.52	0.57
8:TE:116:ASP:N	8:TE:116:ASP:OD1	2.34	0.57
8:TI:297:GLU:O	8:TI:301:GLN:NE2	2.36	0.57
30:U2:447:THR:HG23	30:U2:450:ARG:HH21	1.70	0.57
30:U4:85:ALA:HB2	31:Z:573:HIS:CE1	2.40	0.57
30:U5:129:GLN:HE22	30:V1:154:SER:HB2	1.69	0.57
8:UA:191:THR:HG21	8:UA:425:LEU:HD22	1.86	0.57
9:UH:65:LEU:HD13	9:UH:90:PHE:CD1	2.39	0.57
9:UH:150:LEU:HG	9:UH:154:LYS:HE2	1.87	0.57
8:UI:113:GLU:OE1	8:UI:113:GLU:N	2.36	0.57
8:UK:345:ASP:N	8:UK:345:ASP:OD1	2.38	0.57
25:V:79:GLN:N	25:V:79:GLN:OE1	2.37	0.57
30:V7:458:LYS:HE2	30:V7:458:LYS:HA	1.86	0.57
9:VB:143:THR:HA	9:VB:147:MET:HE1	1.87	0.57
9:VD:322:SER:O	8:VE:221:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VF:248:ALA:HA	9:VF:252:LYS:HG3	1.87	0.57
8:VI:114:ILE:HG23	8:VI:117:LEU:HD23	1.85	0.57
8:VM:235:VAL:HA	8:VM:238:ILE:HD12	1.85	0.57
8:VO:385:ALA:HA	8:VO:388:TRP:CZ3	2.40	0.57
31:W:95:GLU:HG2	31:W:196:TYR:HB2	1.87	0.57
8:WI:133:GLN:HG3	8:WI:242:LEU:HD21	1.86	0.57
8:WK:42:ILE:HD13	42:g:239:LEU:HB3	1.86	0.57
8:WO:121:ARG:HH21	8:WO:124:LYS:HD2	1.69	0.57
31:X:613:ASP:OD1	31:X:680:ARG:NH2	2.38	0.57
36:Y4:185:TYR:HE2	36:Y4:188:THR:HG22	1.69	0.57
42:e:78:TYR:HB3	42:e:95:LEU:HD11	1.87	0.57
44:h3:58:MET:SD	44:h3:60:TRP:NE1	2.75	0.57
46:i4:1401:GLN:HG3	46:i4:1405:LEU:HD12	1.85	0.57
46:i4:1436:PHE:HB2	46:i4:1492:HIS:HB3	1.87	0.57
4:5:117:ILE:HB	4:5:178:ILE:HB	1.85	0.57
9:AL:10:GLY:O	9:AL:14:ASN:ND2	2.38	0.57
8:AM:390:ARG:HD2	8:AM:394:LYS:HE3	1.86	0.57
9:AP:5:VAL:HB	9:AP:133:PHE:HD1	1.70	0.57
9:BF:218:THR:OG1	25:U:139:GLU:O	2.22	0.57
9:BH:28:HIS:HA	9:BH:43:GLN:HG2	1.87	0.57
9:BJ:6:HIS:CE1	9:BJ:134:GLN:HE22	2.23	0.57
12:C3:358:LYS:HD3	12:C3:466:LEU:HD12	1.86	0.57
9:CB:273:LEU:O	9:CB:292:GLN:NE2	2.37	0.57
9:CD:198:GLU:HB2	9:CD:266:PHE:HE2	1.70	0.57
9:CF:147:MET:HA	9:CF:150:LEU:HB3	1.86	0.57
9:DL:67:ASP:HA	9:DL:143:THR:HG21	1.86	0.57
9:DN:112:LEU:HB3	9:DN:147:MET:HE1	1.87	0.57
8:EK:71:GLU:OE1	8:EK:71:GLU:N	2.30	0.57
9:EL:136:THR:HG22	9:EL:167:PHE:HB2	1.85	0.57
9:FB:150:LEU:HG	9:FB:154:LYS:HE2	1.87	0.57
8:FE:318:LEU:HB2	8:FE:376:CYS:HB3	1.84	0.57
8:FI:239:THR:OG1	8:FI:243:ARG:NH1	2.38	0.57
8:GC:340:THR:OG1	36:Y3:29:LYS:NZ	2.24	0.57
8:GG:56:THR:HA	8:HG:285:GLN:HB2	1.86	0.57
8:GG:72:PRO:HB3	49:y:140:THR:HG21	1.86	0.57
8:GK:80:THR:O	8:GK:84:ARG:NH1	2.38	0.57
9:GL:325:GLU:OE2	8:GM:221:ARG:NH1	2.32	0.57
8:GO:51:THR:HG21	8:GO:243:ARG:HG2	1.85	0.57
9:HL:173:PRO:HD3	9:HL:380:ARG:HD3	1.85	0.57
8:HO:161:TYR:HA	36:Y1:23:TYR:HE2	1.70	0.57
9:IH:289:LEU:O	9:IH:293:MET:N	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:II:124:LYS:O	8:II:124:LYS:NZ	2.31	0.57
9:IN:69:GLU:HG2	9:IN:71:GLY:H	1.70	0.57
8:IO:358:GLN:NE2	8:IO:359:PRO:O	2.37	0.57
8:JE:25:CYS:HB2	8:JE:30:ILE:HB	1.85	0.57
9:JF:187:LEU:O	9:JF:191:GLN:NE2	2.38	0.57
9:JH:267:MET:HE3	9:JH:299:MET:HG3	1.87	0.57
8:JI:172:TYR:HB2	8:JI:203:MET:HB3	1.86	0.57
8:KA:214:ARG:HB2	8:KA:215:ARG:NH2	2.19	0.57
9:KF:358:PRO:HG2	9:KF:361:LEU:HD13	1.86	0.57
8:KG:71:GLU:N	8:KG:71:GLU:OE1	2.38	0.57
8:KM:139:HIS:NE2	8:KM:168:GLU:OE2	2.37	0.57
9:LB:412:GLU:O	9:LB:416:ASN:ND2	2.38	0.57
9:LJ:282:ARG:NH2	29:S:242:GLU:OE2	2.37	0.57
8:LM:324:VAL:HG12	8:LM:326:LYS:HG2	1.87	0.57
9:MH:272:PRO:HG3	9:MH:364:SER:HA	1.85	0.57
9:MH:346:PRO:HD3	8:MI:397:LEU:HD11	1.86	0.57
9:MN:318:ARG:NH1	9:MN:356:ILE:O	2.37	0.57
8:NA:320:ARG:HD3	8:NA:360:PRO:HG3	1.86	0.57
9:NB:361:LEU:HD12	9:NB:362:LYS:H	1.69	0.57
8:NC:90:GLU:OE1	8:NC:121:ARG:NH1	2.37	0.57
8:NC:311:LYS:H	8:NC:382:THR:HG22	1.70	0.57
8:NO:64:ARG:NE	8:NO:129:CYS:SG	2.78	0.57
24:O4:68:VAL:HG22	17:P9:75:TRP:HB3	1.87	0.57
9:OB:267:MET:HE1	9:OB:371:SER:HB3	1.86	0.57
9:OJ:41:ASP:HA	9:OJ:44:LEU:HG	1.86	0.57
9:ON:12:CYS:HA	52:ON:502:GDP:N7	2.19	0.57
26:P2:5:ASN:HB3	26:P2:8:LEU:HD22	1.87	0.57
9:PD:376:GLU:OE1	9:PD:376:GLU:N	2.38	0.57
9:QD:130:LEU:O	9:QD:162:ARG:NH1	2.36	0.57
9:QF:372:THR:HA	9:QF:422:TYR:HE1	1.70	0.57
9:QH:51:TYR:HB3	9:QH:59:TYR:HB3	1.86	0.57
8:QI:53:PHE:HB3	8:QI:61:HIS:HB3	1.86	0.57
8:QO:186:ASN:O	8:QO:190:THR:OG1	2.21	0.57
11:R0:283:GLU:OE2	11:R0:374:GLN:NE2	2.37	0.57
11:R4:414:THR:HG22	11:R4:416:ASN:H	1.68	0.57
8:RM:381:THR:HG23	8:RM:383:ALA:H	1.69	0.57
9:RN:73:MET:N	9:RN:73:MET:SD	2.77	0.57
8:RO:215:ARG:NH2	8:RO:299:ALA:O	2.38	0.57
8:SA:345:ASP:N	8:SA:345:ASP:OD1	2.38	0.57
8:SI:147:SER:OG	8:SI:190:THR:OG1	2.22	0.57
8:SI:319:TYR:HD2	8:SI:355:ILE:HG12	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T1:152:ALA:HB1	14:T1:180:THR:HG22	1.87	0.57
14:T5:371:ASP:OD2	14:T5:374:GLN:N	2.38	0.57
8:TA:165:SER:HB3	8:TA:256:GLN:HE22	1.69	0.57
9:TJ:26:ASP:OD1	9:TJ:359:ARG:NH1	2.37	0.57
8:TK:50:ASN:O	8:TK:64:ARG:NH1	2.38	0.57
30:U0:171:ASP:HB3	30:U0:175:ARG:HH12	1.70	0.57
9:UB:156:ARG:NH1	9:UB:197:ASP:OD1	2.36	0.57
9:UD:143:THR:HG23	9:UD:147:MET:HE1	1.86	0.57
9:UH:249:ASP:H	9:UH:252:LYS:HB2	1.70	0.57
8:UM:352:LYS:HZ3	9:UN:179:VAL:HG13	1.70	0.57
30:V0:410:ASP:HB2	30:V0:412:PRO:HD2	1.86	0.57
30:V4:152:TRP:HB3	30:V4:257:LYS:HZ1	1.70	0.57
30:V9:361:LEU:HD13	30:V9:451:LEU:HB3	1.87	0.57
8:VI:282:TYR:HA	39:b:478:LEU:HD21	1.87	0.57
9:WH:290:THR:OG1	9:WH:329:GLN:NE2	2.36	0.57
9:WJ:130:LEU:O	9:WJ:162:ARG:NH1	2.34	0.57
9:WJ:218:THR:HB	43:j:224:LYS:HE3	1.86	0.57
9:WL:1:MET:HE1	9:WL:2:ARG:HH21	1.70	0.57
34:X6:59:ARG:HH22	34:X6:159:ARG:HH11	1.52	0.57
34:X8:132:VAL:HG11	34:X8:190:PRO:HB2	1.87	0.57
36:Y4:144:LEU:HD12	36:Y4:145:PRO:HD2	1.85	0.57
40:a2:44:GLU:OE2	40:a2:48:ARG:NH2	2.38	0.57
42:e:520:SER:HB2	42:e:548:ILE:HB	1.86	0.57
4:5:31:GLU:HB2	4:5:40:LEU:HD11	1.87	0.57
4:5:251:ASN:ND2	4:5:394:ASP:OD2	2.31	0.57
9:AB:362:LYS:HZ3	33:X4:79:ILE:HG13	1.70	0.57
9:AF:49:VAL:HG11	9:AF:241:ARG:HG2	1.87	0.57
8:AM:316:CYS:HB3	8:AM:378:LEU:HB2	1.86	0.57
11:B3:121:GLU:OE1	14:D3:409:ARG:NH1	2.38	0.57
8:BE:116:ASP:N	8:BE:116:ASP:OD1	2.37	0.57
9:BH:309:ARG:HG3	9:BH:426:GLN:HG3	1.87	0.57
8:BK:188:ILE:HD13	8:BK:425:LEU:HD12	1.85	0.57
8:CE:25:CYS:O	8:CE:30:ILE:N	2.37	0.57
8:CM:372:GLN:NE2	25:O5:231:GLN:OE1	2.31	0.57
8:CM:437:VAL:O	9:CN:391:ARG:NH2	2.38	0.57
9:CN:73:MET:HE3	9:CN:90:PHE:HD2	1.70	0.57
9:CP:322:SER:HB3	9:CP:325:GLU:HB2	1.87	0.57
14:D1:192:ARG:NH1	28:Q1:28:ARG:O	2.38	0.57
14:D4:157:GLN:HB2	28:Q4:115:GLU:OE2	2.05	0.57
9:DB:8:GLN:HE21	9:DB:14:ASN:HA	1.70	0.57
9:DP:114:ASP:N	9:DP:114:ASP:OD1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EK:1:MET:SD	8:EK:2:ARG:N	2.78	0.57
9:EL:252:LYS:HE2	8:EM:100:ALA:HA	1.86	0.57
9:FB:70:PRO:HD3	9:FB:94:GLN:HA	1.86	0.57
9:FB:324:LYS:HG3	8:FC:214:ARG:HH22	1.70	0.57
8:FC:88:HIS:HD2	8:FC:89:PRO:HD2	1.70	0.57
9:FF:376:GLU:HG2	9:FF:380:ARG:HH12	1.68	0.57
9:FH:178:THR:HB	9:FH:181:GLU:HB2	1.87	0.57
8:FK:271:THR:HB	8:FK:377:MET:HB3	1.85	0.57
8:FO:203:MET:N	8:FO:203:MET:SD	2.76	0.57
9:GB:163:ILE:C	9:GB:164:MET:HE2	2.30	0.57
8:HA:392:ASP:O	8:HA:422:ARG:NH2	2.37	0.57
9:HB:48:ASN:O	9:HB:62:ARG:NH2	2.37	0.57
9:HD:344:TRP:CH2	8:HE:401:LYS:HD2	2.40	0.57
9:HH:372:THR:HA	9:HH:422:TYR:HE1	1.69	0.57
9:HJ:60:VAL:HG11	9:IJ:281:TYR:HB3	1.85	0.57
8:HK:186:ASN:O	8:HK:190:THR:OG1	2.21	0.57
18:I1:73:ASN:OD1	8:IM:79:ARG:NH1	2.37	0.57
9:IB:245:GLN:HE22	8:IC:224:TYR:HB2	1.70	0.57
8:IC:88:HIS:CD2	9:JD:281:TYR:HD1	2.21	0.57
8:IC:191:THR:HG21	8:IC:425:LEU:HD12	1.87	0.57
9:IF:272:PRO:HG3	9:IF:364:SER:HA	1.86	0.57
8:II:149:PHE:CD2	8:II:152:LEU:HD11	2.40	0.57
9:IP:77:ARG:HB2	4:j1:63:ARG:HH21	1.68	0.57
9:IP:362:LYS:HE3	9:IP:363:MET:HE1	1.87	0.57
19:J4:207:LYS:HD3	19:J4:207:LYS:N	2.20	0.57
9:JB:317:PHE:HB2	9:JB:353:VAL:HG12	1.86	0.57
9:JH:330:MET:N	9:JH:330:MET:SD	2.78	0.57
9:KD:262:ARG:HH21	9:KD:418:LEU:HD13	1.68	0.57
8:KG:175:PRO:HG2	8:KG:176:GLN:OE1	2.03	0.57
8:KO:417:GLU:OE2	41:b5:156:ARG:NH1	2.38	0.57
9:KP:314:ALA:HB3	9:KP:368:ILE:HG23	1.87	0.57
17:L:234:MET:HE2	17:L:238:ASP:HB3	1.86	0.57
8:LA:377:MET:HE3	8:LA:379:SER:HB3	1.87	0.57
8:LC:46:ASP:N	8:LC:46:ASP:OD1	2.38	0.57
9:LF:118:ASP:OD1	9:LF:121:ARG:NH2	2.38	0.57
9:LH:372:THR:HG21	9:LH:426:GLN:HB2	1.86	0.57
9:LL:55:THR:HG23	9:ML:283:ALA:HA	1.87	0.57
8:LO:417:GLU:OE1	8:LO:417:GLU:N	2.34	0.57
9:MB:46:ARG:HH22	8:MC:73:THR:HB	1.70	0.57
9:MP:1:MET:SD	9:MP:2:ARG:N	2.78	0.57
9:NB:7:LEU:HD12	9:NB:135:LEU:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NE:132:LEU:O	8:NE:164:LYS:NZ	2.31	0.57
9:NF:325:GLU:HB2	8:NG:221:ARG:NH2	2.19	0.57
9:NL:7:LEU:HD12	9:NL:135:LEU:HB2	1.86	0.57
8:NO:21:TRP:CZ2	8:NO:65:ALA:HB2	2.40	0.57
24:O4:94:VAL:HG11	24:O4:101:THR:HG23	1.86	0.57
8:OC:88:HIS:CE1	8:OC:90:GLU:HB3	2.39	0.57
9:OD:268:PRO:HG2	9:OD:300:MET:HG2	1.86	0.57
26:P2:48:VAL:O	26:P2:55:ARG:NH2	2.35	0.57
9:PD:8:GLN:HB3	9:PD:65:LEU:HA	1.86	0.57
8:PK:320:ARG:HD3	8:PK:360:PRO:HG3	1.86	0.57
8:QC:312:TYR:HE2	8:QC:341:ILE:HD12	1.70	0.57
9:QJ:322:SER:OG	8:QK:222:PRO:O	2.21	0.57
8:QK:233:GLN:HG3	8:QK:272:TYR:CE1	2.39	0.57
11:R1:6:PHE:CZ	11:R1:11:ARG:HD3	2.39	0.57
8:RE:269:LEU:HD22	8:RE:303:VAL:HG21	1.86	0.57
9:RH:69:GLU:HG2	9:RH:71:GLY:H	1.69	0.57
12:S8:255:GLU:HG2	14:T1:246:LYS:HE2	1.86	0.57
14:T3:204:ASN:HA	14:T3:271:GLU:OE1	2.05	0.57
8:TA:2:ARG:HB2	8:TA:242:LEU:HD21	1.87	0.57
9:TF:213:ARG:HH21	9:TF:297:LYS:HG3	1.70	0.57
9:TH:325:GLU:OE2	8:TI:221:ARG:NH1	2.38	0.57
30:U8:232:LEU:HD22	30:U8:324:LEU:HD23	1.87	0.57
30:U8:419:GLU:OE2	30:U8:423:ILE:HG13	2.04	0.57
9:UF:309:ARG:NH2	9:UF:339:SER:O	2.37	0.57
9:UJ:403:MET:SD	9:UJ:403:MET:N	2.74	0.57
8:UM:151:SER:HA	8:UM:193:THR:HG21	1.85	0.57
9:VD:54:ALA:HB3	9:VD:58:LYS:HB3	1.86	0.57
8:VG:320:ARG:HD3	8:VG:360:PRO:HG3	1.87	0.57
8:VM:53:PHE:HB3	8:VM:61:HIS:HB3	1.86	0.57
8:VM:264:ARG:NH1	8:VM:431:ASP:OD2	2.38	0.57
30:W2:227:ASP:O	30:W2:231:LYS:HG2	2.05	0.57
35:XB:38:THR:HA	35:XB:45:LEU:HA	1.86	0.57
37:YA:77:LYS:HD3	37:YA:77:LYS:N	2.20	0.57
41:b5:269:ARG:HG2	41:b5:270:PRO:HD3	1.85	0.57
39:c:194:MET:O	39:c:198:ILE:HG12	2.04	0.57
42:g:167:SER:OG	42:g:217:ASP:OD2	2.23	0.57
42:g:253:VAL:HG13	42:g:266:VAL:HG13	1.86	0.57
43:i:208:HIS:O	43:i:212:GLN:N	2.35	0.57
46:i4:1334:LYS:HA	46:i4:1337:GLN:OE1	2.05	0.57
4:j1:218:ASP:OD2	4:j1:221:ARG:NE	2.35	0.57
48:q:74:ARG:HD2	48:q:93:LEU:HD11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:309:PRO:HA	2:2:312:LYS:HE2	1.87	0.57
8:AI:102:ASN:HB3	8:AI:105:ARG:HB2	1.86	0.57
8:AM:283:HIS:ND1	8:MM:88:HIS:HA	2.20	0.57
9:BF:285:THR:HB	9:BF:287:PRO:HD2	1.85	0.57
9:BJ:94:GLN:OE1	9:BJ:94:GLN:N	2.37	0.57
8:BO:112:LYS:N	8:BO:112:LYS:HD3	2.18	0.57
10:C:463:LEU:HB3	10:C:467:VAL:HG21	1.87	0.57
12:C3:95:THR:HG22	12:C3:97:ASP:H	1.70	0.57
8:CK:271:THR:HB	8:CK:377:MET:HB2	1.86	0.57
9:DF:86:ARG:HB2	9:ED:281:TYR:CD2	2.40	0.57
8:DI:172:TYR:N	8:DI:204:VAL:O	2.36	0.57
9:DL:177:ASP:N	9:DL:177:ASP:OD2	2.36	0.57
8:DM:147:SER:OG	8:DM:190:THR:OG1	2.20	0.57
9:DN:256:ASN:HD21	8:DO:181:VAL:H	1.52	0.57
9:EB:346:PRO:HD2	8:EC:398:MET:HE2	1.87	0.57
8:EE:264:ARG:NH1	8:EE:431:ASP:OD2	2.37	0.57
9:EF:27:GLU:O	9:EF:43:GLN:NE2	2.38	0.57
8:EG:254:GLU:HG2	9:EH:98:GLY:HA2	1.86	0.57
9:EL:372:THR:HA	9:EL:422:TYR:HE1	1.68	0.57
8:EO:271:THR:HB	8:EO:377:MET:HB3	1.86	0.57
8:FE:360:PRO:O	8:FE:370:LYS:NZ	2.34	0.57
8:FI:60:LYS:HE2	8:GI:282:TYR:CZ	2.39	0.57
8:FK:56:THR:HA	8:GK:285:GLN:HB2	1.86	0.57
8:FM:56:THR:HA	8:GM:285:GLN:HB2	1.86	0.57
8:GC:79:ARG:HA	8:GC:84:ARG:HH21	1.69	0.57
8:GM:70:LEU:HB3	8:GM:98:ASP:HA	1.86	0.57
8:HM:325:PRO:HA	8:HM:328:VAL:HB	1.86	0.57
18:I1:139:LYS:O	9:JN:320:ARG:NH2	2.36	0.57
9:IJ:306:ARG:NH2	36:Y1:125:SER:O	2.30	0.57
8:IM:88:HIS:NE2	8:IM:90:GLU:HB3	2.20	0.57
9:IP:77:ARG:O	9:IP:83:GLN:NE2	2.37	0.57
9:IP:130:LEU:O	9:IP:162:ARG:NH1	2.36	0.57
19:J4:63:ILE:HD12	9:NJ:44:LEU:HD23	1.87	0.57
19:J4:221:SER:HA	19:J4:224:ARG:HG2	1.87	0.57
19:J5:116:LEU:HD23	19:J5:152:GLN:HB2	1.87	0.57
9:JB:6:HIS:HD2	9:JB:21:TRP:HE1	1.51	0.57
9:JB:279:GLN:HA	9:JB:282:ARG:HB2	1.87	0.57
9:JD:324:LYS:HE2	8:JE:222:PRO:HB2	1.85	0.57
8:JG:88:HIS:CE1	8:JG:90:GLU:HB3	2.40	0.57
9:JP:274:THR:O	9:JP:279:GLN:NE2	2.38	0.57
8:KA:53:PHE:HB3	8:KA:61:HIS:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KK:7:ILE:HD13	8:KK:122:ILE:HD11	1.87	0.57
8:KK:301:GLN:NE2	8:KK:303:VAL:O	2.33	0.57
8:KK:360:PRO:O	8:KK:370:LYS:NZ	2.38	0.57
9:LD:406:MET:N	9:LD:406:MET:SD	2.78	0.57
8:LE:437:VAL:O	43:i:91:ARG:NH2	2.38	0.57
9:LN:229:VAL:O	9:LN:233:MET:HG3	2.04	0.57
9:LN:325:GLU:OE2	8:LO:221:ARG:NH1	2.37	0.57
22:M4:187:GLN:O	22:M4:190:GLN:HG3	2.05	0.57
8:MA:254:GLU:HG2	9:MB:98:GLY:HA2	1.87	0.57
8:MA:264:ARG:NH1	8:MA:431:ASP:OD2	2.37	0.57
8:MM:36:MET:HE3	8:MM:37:PRO:HD2	1.85	0.57
8:MO:171:ILE:HD13	8:MO:204:VAL:HG13	1.87	0.57
8:NE:144:GLY:N	50:NE:501:GTP:O2G	2.38	0.57
9:NH:143:THR:HG1	52:NH:502:GDP:PB	2.28	0.57
9:NJ:305:PRO:HB2	9:NJ:310:TYR:HE1	1.69	0.57
8:NK:392:ASP:OD1	8:NK:422:ARG:NH2	2.32	0.57
9:OB:12:CYS:HA	52:OB:502:GDP:N7	2.20	0.57
9:OD:54:ALA:HA	9:PD:283:ALA:HB2	1.85	0.57
8:OE:320:ARG:HD3	8:OE:360:PRO:HG3	1.86	0.57
8:OG:147:SER:OG	8:OG:190:THR:OG1	2.22	0.57
9:OL:289:LEU:HD11	9:OL:363:MET:SD	2.45	0.57
27:P5:40:GLU:HA	27:P5:43:LYS:HD2	1.86	0.57
8:PE:209:ILE:HG12	8:PE:302:MET:SD	2.45	0.57
8:PG:169:PHE:HA	8:PG:202:PHE:HB2	1.87	0.57
9:QF:7:LEU:N	9:QF:134:GLN:O	2.38	0.57
8:QK:31:GLN:NE2	8:QK:35:GLN:OE1	2.35	0.57
9:QN:164:MET:HE3	9:QN:196:THR:HA	1.86	0.57
11:R2:272:MET:HE3	11:R2:383:THR:HG21	1.87	0.57
11:R4:420:SER:O	30:W7:316:ARG:NH1	2.37	0.57
8:RC:90:GLU:OE1	8:SA:280:LYS:NZ	2.35	0.57
9:RD:52:ASN:OD1	9:RD:62:ARG:NH1	2.38	0.57
9:RF:8:GLN:HE21	9:RF:14:ASN:HA	1.70	0.57
8:RG:328:VAL:HG21	8:RG:355:ILE:HD11	1.86	0.57
9:RJ:52:ASN:OD1	9:RJ:62:ARG:NH1	2.38	0.57
9:RL:285:THR:HB	9:RL:287:PRO:HD2	1.86	0.57
8:RM:154:MET:HE1	8:RM:166:LYS:HD2	1.86	0.57
8:RM:272:TYR:CD2	8:RM:273:ALA:N	2.73	0.57
8:RO:7:ILE:HB	8:RO:137:ILE:HG22	1.86	0.57
8:SM:188:ILE:O	8:SM:191:THR:OG1	2.23	0.57
14:T1:199:ASP:OD1	14:T1:202:ARG:NH2	2.38	0.57
8:TA:203:MET:HE2	8:TA:203:MET:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TB:363:MET:HE3	9:TB:363:MET:HA	1.86	0.57
9:TF:5:VAL:HB	9:TF:133:PHE:HD1	1.70	0.57
8:TG:51:THR:HG21	8:TG:243:ARG:HG2	1.87	0.57
9:TJ:292:GLN:O	9:TJ:298:ASN:ND2	2.38	0.57
8:TK:235:VAL:HA	8:TK:238:ILE:HD12	1.87	0.57
9:TL:284:LEU:HD21	9:TL:363:MET:HG2	1.86	0.57
25:U:118:ARG:NH2	25:U:135:GLU:OE1	2.32	0.57
9:UB:252:LYS:NZ	8:UC:101:ASN:OD1	2.38	0.57
8:UE:49:PHE:HE2	8:UE:55:GLU:HB2	1.70	0.57
9:UJ:30:ILE:HG13	9:UJ:51:TYR:HE2	1.69	0.57
8:UO:139:HIS:O	8:UO:170:ALA:HA	2.05	0.57
30:V2:198:ARG:NH2	30:V2:212:GLU:OE1	2.37	0.57
30:V5:232:LEU:HD21	30:V5:321:ALA:HA	1.87	0.57
9:VB:170:VAL:HG11	9:VB:377:LEU:HD21	1.87	0.57
9:VN:10:GLY:O	9:VN:14:ASN:ND2	2.38	0.57
8:VO:316:CYS:HB3	8:VO:378:LEU:HB2	1.86	0.57
8:WE:323:VAL:HG13	8:WE:355:ILE:HD11	1.86	0.57
8:WK:320:ARG:HD3	8:WK:360:PRO:HG3	1.85	0.57
37:YD:69:LEU:HD13	37:YD:110:PHE:HE1	1.70	0.57
39:a:189:GLU:HA	39:a:192:LYS:HD2	1.86	0.57
39:a:191:LEU:HA	39:a:194:MET:SD	2.45	0.57
39:a:195:SER:C	39:a:197:ILE:N	2.63	0.57
39:b:389:LEU:HA	39:b:392:LYS:HE3	1.86	0.57
41:b5:479:ARG:O	41:b5:482:ASN:ND2	2.38	0.57
2:1:364:THR:HA	2:1:367:GLN:HG2	1.87	0.56
3:3:338:GLU:O	3:3:341:ILE:HG13	2.03	0.56
7:A0:338:ILE:HA	7:A1:206:ARG:CZ	2.35	0.56
8:AE:42:ILE:HG23	25:U:94:LYS:HD3	1.86	0.56
9:AF:45:GLU:N	9:AF:45:GLU:OE1	2.37	0.56
9:AL:371:SER:O	9:AL:422:TYR:OH	2.16	0.56
9:AN:221:THR:OG1	9:AN:222:TYR:N	2.37	0.56
10:B:131:ALA:HB3	10:C:459:LEU:HD21	1.86	0.56
10:B:176:LYS:HG2	10:B:180:ARG:HE	1.70	0.56
11:B4:60:ASN:HD21	11:B5:341:GLU:HG3	1.69	0.56
9:BB:285:THR:H	9:BB:288:GLU:HB2	1.70	0.56
9:BD:256:ASN:HD22	9:BD:350:LYS:HD3	1.69	0.56
8:BE:175:PRO:HD3	8:BE:390:ARG:CZ	2.35	0.56
8:BE:240:ALA:HB2	8:BE:320:ARG:HH21	1.69	0.56
9:BF:226:ASN:OD1	52:BF:502:GDP:N1	2.37	0.56
12:C0:135:ILE:HD12	12:C1:389:LYS:HE3	1.85	0.56
8:CC:402:ARG:HD2	8:CC:405:VAL:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CG:370:LYS:HZ3	31:X:223:ILE:HA	1.70	0.56
8:CM:315:CYS:SG	8:CM:379:SER:OG	2.54	0.56
8:CM:327:ASP:OD1	8:CM:327:ASP:N	2.31	0.56
8:DC:70:LEU:HB3	8:DC:98:ASP:HA	1.87	0.56
9:DD:173:PRO:HB3	9:DD:380:ARG:HD2	1.87	0.56
9:DF:322:SER:OG	8:DG:222:PRO:O	2.18	0.56
9:ED:237:THR:HG22	9:ED:250:LEU:HD21	1.86	0.56
8:EE:203:MET:N	8:EE:203:MET:SD	2.77	0.56
8:EM:147:SER:HG	8:EM:190:THR:HG1	1.48	0.56
8:FA:258:ASN:ND2	9:FB:179:VAL:H	2.02	0.56
8:FE:439:SER:HG	9:FF:390:ARG:HH21	1.52	0.56
8:FG:292:THR:HG21	8:FG:331:ALA:HB1	1.87	0.56
8:FM:345:ASP:N	8:FM:345:ASP:OD1	2.36	0.56
8:FO:160:ASP:OD2	36:Y2:30:TYR:OH	2.23	0.56
8:GA:258:ASN:ND2	9:GB:179:VAL:H	2.00	0.56
8:GI:91:GLN:HA	8:GI:121:ARG:HH12	1.70	0.56
9:GN:306:ARG:HD2	36:Y2:55:GLY:HA3	1.87	0.56
8:HA:353:VAL:N	9:HB:177:ASP:OD1	2.38	0.56
8:HE:276:ILE:HG13	8:HE:280:LYS:HB3	1.87	0.56
8:HE:328:VAL:HG11	8:HE:353:VAL:HG11	1.85	0.56
9:HF:113:VAL:HG11	9:HF:150:LEU:HD23	1.86	0.56
8:HG:36:MET:O	8:HG:40:LYS:NZ	2.37	0.56
9:HJ:7:LEU:HG	9:HJ:135:LEU:HG	1.87	0.56
9:HJ:68:LEU:HB3	9:HJ:96:GLY:HA2	1.85	0.56
8:HM:73:THR:OG1	8:HM:77:GLU:OE2	2.15	0.56
9:HP:309:ARG:NH2	9:HP:339:SER:O	2.38	0.56
9:IB:306:ARG:HH22	36:Y0:53:PHE:C	2.13	0.56
8:IC:33:ASP:OD2	8:IC:35:GLN:N	2.37	0.56
9:IH:73:MET:SD	9:IH:90:PHE:HB3	2.45	0.56
9:IN:106:TYR:HB3	34:X7:70:PRO:HD3	1.87	0.56
8:IO:69:ASP:O	8:IO:94:THR:HA	2.04	0.56
8:JG:56:THR:OG1	8:JG:60:LYS:O	2.20	0.56
8:JK:204:VAL:HG13	8:JK:302:MET:HB3	1.87	0.56
8:KC:189:LEU:HD13	8:KC:413:MET:HE1	1.87	0.56
9:KL:326:VAL:HG22	9:KL:330:MET:HE2	1.86	0.56
9:KP:73:MET:N	9:KP:73:MET:SD	2.77	0.56
8:LG:131:GLY:HA2	45:m:22:TRP:HZ2	1.70	0.56
9:LL:323:MET:HA	9:LL:326:VAL:HG12	1.87	0.56
8:LM:49:PHE:HB2	8:LM:53:PHE:HD2	1.70	0.56
9:MD:416:ASN:ND2	45:l:35:HIS:O	2.38	0.56
9:MP:318:ARG:HG2	9:MP:358:PRO:HD3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NA:402:ARG:HD3	8:NA:405:VAL:HG21	1.87	0.56
9:NB:131:GLN:HA	9:NB:162:ARG:HH21	1.69	0.56
9:ND:60:VAL:HG21	9:ND:86:ARG:HH21	1.68	0.56
9:ND:114:ASP:N	9:ND:114:ASP:OD1	2.34	0.56
9:ND:249:ASP:H	9:ND:252:LYS:HB2	1.68	0.56
8:NE:70:LEU:HB3	8:NE:98:ASP:HA	1.86	0.56
9:NN:17:GLY:HA2	9:NN:20:PHE:HB3	1.85	0.56
8:NO:191:THR:HG21	8:NO:425:LEU:HD11	1.87	0.56
9:OB:309:ARG:NH2	9:OB:339:SER:O	2.38	0.56
8:OE:183:GLU:HA	8:OE:186:ASN:HD22	1.70	0.56
9:OH:228:LEU:HD21	9:OH:300:MET:HG3	1.86	0.56
8:OM:367:ASP:OD1	8:OM:367:ASP:N	2.37	0.56
27:P3:132:PHE:HZ	27:P3:164:VAL:HG11	1.70	0.56
27:P6:72:ARG:HH12	27:P6:73:ARG:CZ	2.18	0.56
8:PM:75:VAL:HG12	8:PM:79:ARG:HE	1.69	0.56
8:QE:285:GLN:HE22	8:QE:287:SER:HB3	1.70	0.56
9:QJ:182:PRO:O	9:QJ:186:THR:OG1	2.18	0.56
8:QM:346:TRP:HB3	9:QN:390:ARG:HH12	1.70	0.56
9:QN:150:LEU:HG	9:QN:154:LYS:HE2	1.86	0.56
8:RE:53:PHE:HB3	8:RE:61:HIS:HB3	1.86	0.56
8:RE:152:LEU:HD12	8:RE:153:LEU:HD22	1.87	0.56
8:RK:437:VAL:O	9:RL:391:ARG:NH2	2.35	0.56
9:RN:132:GLY:HA2	9:RN:162:ARG:HB3	1.87	0.56
12:S8:110:SER:O	12:S8:114:ARG:HG3	2.04	0.56
8:SK:116:ASP:OD1	8:SK:116:ASP:N	2.38	0.56
8:SM:30:ILE:HG23	8:SM:36:MET:HE1	1.85	0.56
9:SN:376:GLU:O	9:SN:380:ARG:NH1	2.38	0.56
14:T2:106:ARG:O	14:T2:110:MET:HG3	2.05	0.56
8:TI:137:ILE:HG23	8:TI:168:GLU:HA	1.87	0.56
9:TJ:323:MET:HE1	8:TK:224:TYR:CG	2.40	0.56
8:TM:118:VAL:O	8:TM:122:ILE:HG12	2.04	0.56
25:U:524:SER:OG	25:U:526:GLU:OE1	2.20	0.56
30:U1:391:MET:HE1	30:U2:270:LEU:CD2	2.34	0.56
8:UE:90:GLU:OE2	8:UE:121:ARG:NH1	2.38	0.56
9:UL:54:ALA:HB3	9:UL:58:LYS:HB3	1.86	0.56
30:V3:363:LYS:HE2	30:V4:110:ARG:HH21	1.70	0.56
30:V3:398:CYS:HA	30:V3:401:ARG:HE	1.70	0.56
30:V5:180:ALA:O	30:V5:184:VAL:HG23	2.05	0.56
8:VC:287:SER:N	8:VC:290:GLU:OE2	2.37	0.56
9:VH:41:ASP:N	42:f:502:ASN:OD1	2.34	0.56
9:VH:111:GLU:N	9:VH:111:GLU:OE2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W0:308:GLN:OE1	30:W0:309:ASN:N	2.37	0.56
30:W5:368:ILE:HG12	30:W5:444:LEU:HB3	1.87	0.56
8:WK:127:ASP:HA	37:YF:69:LEU:HD23	1.86	0.56
9:WN:248:ALA:HA	9:WN:252:LYS:HG3	1.87	0.56
9:WP:107:THR:OG1	9:WP:108:GLU:OE1	2.22	0.56
34:X7:116:PHE:HA	34:X7:119:ILE:HG22	1.85	0.56
35:XB:33:HIS:CE1	35:XB:50:GLU:HB2	2.40	0.56
31:Y:713:LEU:HG	31:Y:714:LYS:HG3	1.86	0.56
37:YA:44:GLY:HA2	37:YA:47:LYS:CE	2.34	0.56
37:YC:49:ARG:HG3	37:YC:144:ARG:HG3	1.87	0.56
39:c:397:VAL:HA	39:c:400:ARG:HD2	1.88	0.56
4:j1:119:PRO:HA	4:j1:122:VAL:CG1	2.35	0.56
2:1:416:VAL:HG13	9:IB:227:HIS:CD2	2.40	0.56
2:2:375:SER:O	2:2:381:GLN:NE2	2.38	0.56
2:2:481:MET:CE	9:IP:217:LEU:HD11	2.34	0.56
8:AA:123:ARG:HE	8:AA:127:ASP:CG	2.12	0.56
8:AA:346:TRP:HZ2	8:AA:435:VAL:HG13	1.69	0.56
9:AB:281:TYR:CD1	9:MB:87:PRO:HD3	2.39	0.56
8:AC:70:LEU:HB3	8:AC:98:ASP:HA	1.86	0.56
8:AK:271:THR:HB	8:AK:377:MET:HB3	1.87	0.56
8:AO:186:ASN:O	8:AO:190:THR:OG1	2.16	0.56
9:AP:55:THR:HA	17:O7:227:ARG:HH22	1.70	0.56
11:B2:184:GLU:OE2	28:Q2:132:PRO:HG3	2.05	0.56
9:BB:213:ARG:HD2	9:BB:297:LYS:HZ2	1.69	0.56
8:BI:239:THR:HG22	8:BI:243:ARG:HH11	1.71	0.56
12:C1:174:LEU:HD11	12:C1:321:LEU:HD23	1.87	0.56
9:CB:258:VAL:HB	8:CC:407:TRP:HE1	1.68	0.56
9:CF:130:LEU:O	9:CF:162:ARG:NH1	2.38	0.56
9:CL:161:ASP:HB2	9:CL:162:ARG:HH21	1.70	0.56
9:DF:8:GLN:HE21	9:DF:14:ASN:HA	1.69	0.56
8:DK:345:ASP:OD2	9:DL:390:ARG:NH2	2.37	0.56
8:DM:234:ILE:HD11	8:DM:272:TYR:HB2	1.87	0.56
9:EB:236:VAL:HG13	9:EB:237:THR:HG23	1.86	0.56
8:EM:79:ARG:NH2	8:EM:92:LEU:O	2.38	0.56
9:EN:299:MET:HE3	9:EN:300:MET:N	2.20	0.56
9:FD:156:ARG:HH11	9:FD:164:MET:HE2	1.70	0.56
9:FF:41:ASP:OD2	9:FF:42:LEU:N	2.39	0.56
9:FF:274:THR:HB	9:FF:278:SER:HB2	1.87	0.56
9:FH:173:PRO:HG3	9:FH:380:ARG:HE	1.70	0.56
9:GB:136:THR:HG22	9:GB:167:PHE:HB2	1.86	0.56
8:GC:190:THR:O	8:GC:193:THR:OG1	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GH:133:PHE:HB2	9:GH:164:MET:HE2	1.88	0.56
8:GI:151:SER:HA	8:GI:193:THR:HG21	1.88	0.56
9:GJ:345:ILE:HG23	8:GK:398:MET:HE1	1.87	0.56
8:HA:271:THR:HB	8:HA:377:MET:HB3	1.86	0.56
9:HD:86:ARG:HG3	9:ID:281:TYR:CE1	2.40	0.56
9:HH:39:ASP:OD1	9:HH:39:ASP:N	2.35	0.56
8:HI:328:VAL:HG11	8:HI:353:VAL:HG11	1.87	0.56
8:HK:259:LEU:HD11	8:HK:316:CYS:HB2	1.86	0.56
9:HP:7:LEU:N	9:HP:134:GLN:O	2.38	0.56
9:IB:125:GLU:OE2	9:IB:159:TYR:OH	2.22	0.56
8:IE:253:THR:O	8:IE:257:THR:OG1	2.19	0.56
9:IP:104:GLY:HA3	9:IP:147:MET:HE2	1.86	0.56
19:J2:219:ARG:HH22	9:KF:157:GLU:HB2	1.70	0.56
9:JB:183:TYR:HE1	9:JB:388:MET:SD	2.28	0.56
9:JF:276:ARG:HB2	9:JF:276:ARG:HH11	1.70	0.56
9:JJ:114:ASP:OD1	9:JJ:115:SER:N	2.38	0.56
8:JO:4:CYS:SG	8:JO:136:LEU:HD23	2.45	0.56
8:JO:88:HIS:HB3	8:JO:91:GLN:HG3	1.87	0.56
9:KD:51:TYR:O	9:KD:62:ARG:NH2	2.38	0.56
9:KD:52:ASN:OD1	9:KD:62:ARG:NH1	2.38	0.56
8:KG:176:GLN:OE1	8:KG:176:GLN:N	2.38	0.56
9:KN:198:GLU:HB2	9:KN:266:PHE:CE2	2.39	0.56
9:LB:64:VAL:HG21	9:LB:120:VAL:HG12	1.86	0.56
9:LB:309:ARG:NH2	9:LB:339:SER:O	2.38	0.56
22:M1:167:LEU:HD12	25:T:217:LYS:HG3	1.87	0.56
9:MB:316:VAL:HG12	9:MB:352:ALA:HB3	1.85	0.56
8:MC:279:GLU:N	8:MC:279:GLU:OE1	2.38	0.56
9:ND:309:ARG:NH2	9:ND:339:SER:O	2.37	0.56
9:NL:8:GLN:NE2	9:NL:14:ASN:O	2.38	0.56
9:NL:334:GLN:OE1	9:NL:348:ASN:N	2.39	0.56
9:NP:48:ASN:O	9:NP:62:ARG:NH2	2.38	0.56
25:O5:348:ASP:HB3	25:O5:351:THR:HG23	1.87	0.56
8:OM:288:VAL:HG23	8:OM:373:ARG:HH21	1.70	0.56
9:PD:130:LEU:O	9:PD:162:ARG:NH1	2.34	0.56
9:PH:296:ALA:HA	9:PH:299:MET:HE3	1.87	0.56
8:PO:102:ASN:HB3	8:PO:105:ARG:HB2	1.86	0.56
9:QB:315:ALA:HB3	9:QB:351:THR:HG22	1.86	0.56
8:QE:208:ALA:HB2	8:QE:304:LYS:HD3	1.87	0.56
9:QH:54:ALA:HA	9:RH:283:ALA:HB2	1.87	0.56
8:QI:286:LEU:O	8:QI:373:ARG:NH1	2.38	0.56
8:QK:345:ASP:OD1	8:QK:345:ASP:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QP:163:ILE:HG12	9:QP:251:ARG:HH21	1.69	0.56
8:RE:211:ASP:O	8:RE:215:ARG:HG3	2.05	0.56
8:RE:298:PRO:HA	8:RE:301:GLN:HG2	1.88	0.56
9:RL:282:ARG:NH2	9:RL:292:GLN:OE1	2.38	0.56
9:RN:245:GLN:O	8:RO:11:GLN:NE2	2.38	0.56
12:S1:39:HIS:HD2	12:S1:40:ARG:HG3	1.70	0.56
8:SA:316:CYS:HB3	8:SA:378:LEU:HB2	1.86	0.56
9:SF:86:ARG:HG2	9:SF:89:ASN:H	1.69	0.56
8:SM:53:PHE:O	8:SM:64:ARG:NH1	2.38	0.56
14:T0:88:THR:HB	14:T1:346:LYS:HE2	1.86	0.56
9:TB:48:ASN:O	9:TB:62:ARG:NH2	2.38	0.56
8:TE:70:LEU:HB3	8:TE:98:ASP:HA	1.88	0.56
8:TG:311:LYS:H	8:TG:382:THR:HG22	1.70	0.56
9:TH:269:GLY:HA2	9:TH:300:MET:HE1	1.87	0.56
30:U1:142:LEU:HD21	30:U1:268:PHE:HB2	1.87	0.56
30:U2:198:ARG:HE	30:U2:201:ARG:HH21	1.53	0.56
30:U5:354:LYS:HG2	30:U5:358:GLN:HE22	1.70	0.56
30:U6:193:GLU:HB2	30:U6:472:MET:HE1	1.86	0.56
8:UE:282:TYR:HB2	39:c:373:ARG:CZ	2.29	0.56
30:V3:336:PHE:HD1	30:V3:473:ARG:HH21	1.53	0.56
8:VC:292:THR:HG21	8:VC:331:ALA:HB1	1.87	0.56
8:VE:81:GLY:O	8:VE:84:ARG:NE	2.38	0.56
9:VJ:372:THR:HA	9:VJ:422:TYR:HE1	1.69	0.56
8:VK:49:PHE:HB2	8:VK:53:PHE:HD2	1.68	0.56
8:VK:215:ARG:O	8:VK:215:ARG:NH1	2.38	0.56
8:VK:385:ALA:HA	8:VK:388:TRP:CZ3	2.41	0.56
9:VN:26:ASP:O	9:VN:359:ARG:NH1	2.38	0.56
9:VN:69:GLU:HG2	9:VN:71:GLY:H	1.70	0.56
30:W0:225:CYS:O	30:W0:229:MET:HG2	2.05	0.56
30:W2:347:ILE:O	30:W2:351:THR:HG23	2.05	0.56
8:WA:136:LEU:HB3	8:WA:138:PHE:HE1	1.70	0.56
9:WF:321:MET:HE1	9:WF:326:VAL:CG2	2.35	0.56
8:WG:25:CYS:O	8:WG:30:ILE:N	2.37	0.56
8:WI:118:VAL:HG21	8:WI:149:PHE:HZ	1.70	0.56
39:a:104:ILE:HD12	39:a:106:PRO:HG3	1.86	0.56
39:a:226:ARG:HH22	39:a:227:ARG:HB2	1.70	0.56
41:b1:342:GLU:HA	41:b1:345:GLU:HG2	1.86	0.56
42:f:384:ARG:HG3	42:f:427:SER:HA	1.86	0.56
43:k:187:ARG:HG3	43:k:251:TYR:CD1	2.39	0.56
1:0:87:ARG:HH21	1:0:89:MET:HE3	1.69	0.56
2:2:424:LYS:HE3	2:2:428:ASP:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:371:LYS:CD	9:GD:360:GLY:HA2	2.35	0.56
4:5:40:LEU:H	1:7:103:LYS:HD3	1.69	0.56
5:8:46:HIS:O	5:8:49:GLN:NE2	2.28	0.56
6:A:50:ARG:HH22	9:JF:79:GLY:HA2	1.69	0.56
7:A0:311:LYS:O	7:A0:315:THR:HG23	2.05	0.56
8:AK:44:GLY:O	31:Y:116:ASN:ND2	2.38	0.56
9:AL:323:MET:HB2	8:AM:210:TYR:OH	2.05	0.56
9:AN:283:ALA:HB2	9:MN:54:ALA:HA	1.87	0.56
10:B:176:LYS:HD3	10:B:180:ARG:HH21	1.69	0.56
11:B0:7:LYS:HD2	11:B0:8:PRO:HD2	1.86	0.56
11:B2:202:LYS:HG2	11:B3:319:GLU:HB2	1.87	0.56
8:BE:49:PHE:HE2	8:BE:55:GLU:HB2	1.70	0.56
8:BE:326:LYS:HE2	9:BF:219:THR:HA	1.87	0.56
8:BK:438:ASP:O	9:BL:391:ARG:NH2	2.37	0.56
9:BN:189:VAL:HA	9:BN:192:LEU:HB2	1.87	0.56
9:CB:224:ASP:N	9:CB:224:ASP:OD2	2.37	0.56
9:CB:346:PRO:O	8:CC:394:LYS:NZ	2.39	0.56
8:CM:150:ALA:O	8:CM:154:MET:HG3	2.04	0.56
8:CO:116:ASP:N	8:CO:116:ASP:OD1	2.35	0.56
13:D:401:ARG:HB3	13:D:404:ARG:HH21	1.70	0.56
9:DF:130:LEU:O	9:DF:162:ARG:NH1	2.37	0.56
9:DH:324:LYS:HB2	8:DI:222:PRO:HD2	1.88	0.56
8:DI:328:VAL:HG21	8:DI:355:ILE:HD11	1.85	0.56
9:EB:337:ASN:HB3	9:EB:340:TYR:HD2	1.70	0.56
8:EC:108:TYR:CD2	8:EC:413:MET:HE1	2.40	0.56
8:EC:127:ASP:OD2	8:FC:293:ASN:ND2	2.38	0.56
9:EH:45:GLU:N	9:EH:45:GLU:OE1	2.38	0.56
9:EH:156:ARG:HG3	9:EH:195:ASN:HB3	1.86	0.56
9:EH:236:VAL:HG13	9:EH:237:THR:HG23	1.86	0.56
8:EM:286:LEU:O	8:EM:373:ARG:NH1	2.38	0.56
9:EN:221:THR:N	9:EN:224:ASP:OD2	2.37	0.56
9:FB:276:ARG:NH2	31:W:475:ASN:H	2.03	0.56
8:FC:437:VAL:O	9:FD:391:ARG:NH2	2.34	0.56
9:FF:273:LEU:O	9:FF:292:GLN:NE2	2.37	0.56
9:FJ:181:GLU:HG2	9:FJ:182:PRO:HD3	1.87	0.56
9:FL:54:ALA:HA	9:GL:283:ALA:HB2	1.86	0.56
8:FM:192:HIS:NE2	8:FM:424:ASP:OD2	2.38	0.56
8:FM:316:CYS:HA	8:FM:352:LYS:HB3	1.87	0.56
9:FN:239:CYS:SG	9:FN:248:ALA:N	2.78	0.56
8:GA:60:LYS:HD3	8:HA:283:HIS:HA	1.88	0.56
8:GA:345:ASP:N	8:GA:345:ASP:OD1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GB:8:GLN:HB3	9:GB:65:LEU:HA	1.85	0.56
9:GB:294:PHE:CD2	9:GB:333:VAL:HG21	2.40	0.56
9:GB:388:MET:HE3	9:GB:394:PHE:HB2	1.86	0.56
8:GC:175:PRO:O	8:GC:394:LYS:NZ	2.36	0.56
8:GI:286:LEU:O	8:GI:373:ARG:NH1	2.38	0.56
9:GN:1:MET:HE3	9:GN:2:ARG:H	1.70	0.56
9:GN:24:ILE:HA	9:GN:27:GLU:HB3	1.86	0.56
9:GN:309:ARG:NH2	9:GN:339:SER:O	2.38	0.56
8:HA:90:GLU:HG2	8:HA:121:ARG:HH11	1.70	0.56
9:HB:334:GLN:OE1	9:HB:348:ASN:N	2.38	0.56
8:HE:16:ILE:HA	8:HE:228:ASN:OD1	2.04	0.56
9:HF:330:MET:HB3	9:HF:349:VAL:HG11	1.88	0.56
8:HG:70:LEU:HD12	8:HG:145:THR:HG22	1.87	0.56
9:HH:48:ASN:O	9:HH:62:ARG:NH2	2.38	0.56
9:HH:139:LEU:HA	9:HH:145:SER:HB2	1.87	0.56
9:HH:337:ASN:HB3	9:HH:340:TYR:HD2	1.70	0.56
8:HK:317:MET:HB2	8:HK:353:VAL:HA	1.86	0.56
9:HL:164:MET:HA	9:HL:164:MET:HE3	1.86	0.56
9:HN:194:GLU:OE2	9:HN:194:GLU:N	2.37	0.56
8:HO:254:GLU:OE1	8:HO:258:ASN:ND2	2.38	0.56
9:HP:207:LEU:HB3	9:HP:225:LEU:HG	1.87	0.56
9:IB:47:ILE:HG13	9:IB:51:TYR:CD2	2.41	0.56
9:IB:207:LEU:HD22	9:IB:225:LEU:HD13	1.86	0.56
9:ID:334:GLN:OE1	9:ID:348:ASN:N	2.38	0.56
8:IE:53:PHE:O	8:IE:64:ARG:NH2	2.37	0.56
8:IE:234:ILE:O	8:IE:237:SER:OG	2.23	0.56
8:IK:208:ALA:HA	8:IK:304:LYS:HE2	1.88	0.56
9:IL:47:ILE:HG12	9:IL:51:TYR:HB2	1.85	0.56
8:IM:88:HIS:HB3	9:JN:281:TYR:CZ	2.40	0.56
9:IP:87:PRO:HA	9:IP:90:PHE:CD1	2.40	0.56
19:J1:266:GLU:OE2	41:b2:211:ARG:HD2	2.05	0.56
19:J2:27:GLN:HG2	19:J2:79:PRO:HB2	1.87	0.56
8:JK:52:PHE:CE1	8:JK:243:ARG:HD3	2.40	0.56
8:JK:265:ILE:HD13	8:JK:313:MET:HE1	1.87	0.56
9:JL:101:TRP:NE1	9:JL:145:SER:O	2.38	0.56
8:JM:439:SER:OG	9:JN:390:ARG:NH1	2.39	0.56
9:JN:1:MET:N	9:JN:3:GLU:OE1	2.36	0.56
9:JN:396:HIS:HA	9:JN:399:THR:HG22	1.86	0.56
8:JO:56:THR:HG23	8:JO:58:ALA:H	1.70	0.56
20:K2:55:MET:HG3	8:UO:18:ASN:HB3	1.87	0.56
9:KJ:125:GLU:OE2	9:KJ:159:TYR:OH	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KN:198:GLU:HB2	9:KN:266:PHE:HE2	1.71	0.56
9:KN:309:ARG:NH2	9:KN:339:SER:O	2.39	0.56
8:KO:150:ALA:O	8:KO:154:MET:HG3	2.05	0.56
9:KP:8:GLN:HE22	9:KP:17:GLY:HA3	1.70	0.56
8:LA:133:GLN:NE2	8:LA:251:ASP:OD2	2.38	0.56
9:LB:170:VAL:HG12	9:LB:171:PRO:HD2	1.86	0.56
8:LC:137:ILE:HG21	8:LC:154:MET:HE1	1.87	0.56
9:LF:390:ARG:HH12	43:i:94:HIS:HB3	1.70	0.56
9:LF:426:GLN:NE2	44:h2:64:MET:HE1	2.21	0.56
8:LG:88:HIS:HE2	8:MG:284:GLU:CD	2.14	0.56
8:LK:130:THR:OG1	8:LK:131:GLY:N	2.37	0.56
8:LM:264:ARG:HD2	43:k:87:ALA:HA	1.88	0.56
8:LO:132:LEU:O	8:LO:164:LYS:NZ	2.35	0.56
22:M4:152:ASP:O	17:N:264:ARG:NH2	2.39	0.56
8:MI:265:ILE:HG21	8:MI:313:MET:HE1	1.87	0.56
8:MK:191:THR:HA	8:MK:194:THR:HG22	1.86	0.56
15:N2:42:ARG:NH1	15:N2:104:LEU:O	2.37	0.56
8:NE:172:TYR:HH	8:NE:388:TRP:CD1	2.23	0.56
8:NI:14:VAL:HG12	8:NI:67:PHE:HD1	1.70	0.56
8:NI:182:VAL:O	8:NI:186:ASN:ND2	2.39	0.56
8:NK:2:ARG:HD2	8:NK:2:ARG:N	2.20	0.56
8:NK:141:PHE:HB2	8:NK:173:PRO:HD3	1.88	0.56
8:NK:260:VAL:HB	9:NL:397:TRP:HZ2	1.71	0.56
8:NK:317:MET:HE3	8:NK:351:PHE:CD2	2.40	0.56
8:NM:76:ASP:OD1	8:NM:79:ARG:NH2	2.38	0.56
25:O5:184:VAL:HG21	25:O5:207:ILE:HG12	1.87	0.56
9:OH:322:SER:O	8:OI:221:ARG:NH2	2.37	0.56
8:OI:103:TYR:HB3	8:OI:408:TYR:HE2	1.69	0.56
9:ON:156:ARG:NH1	9:ON:197:ASP:OD1	2.38	0.56
9:OP:398:TYR:HB3	9:OP:403:MET:HE3	1.87	0.56
27:P6:155:GLY:HA3	11:R3:358:GLN:NE2	2.21	0.56
17:P8:100:ILE:HG22	17:P8:102:GLY:H	1.71	0.56
8:PI:326:LYS:NZ	9:PJ:220:PRO:HD2	2.21	0.56
9:PJ:358:PRO:HG3	9:PJ:364:SER:HB3	1.86	0.56
8:PK:238:ILE:HD11	8:PK:378:LEU:HD11	1.87	0.56
8:PK:331:ALA:O	8:PK:335:ILE:HG12	2.06	0.56
9:PL:60:VAL:HG11	9:QL:281:TYR:HB3	1.87	0.56
9:PL:83:GLN:O	9:QL:281:TYR:OH	2.17	0.56
9:PL:315:ALA:HB3	9:PL:351:THR:HG22	1.87	0.56
8:PM:206:ASN:HB3	8:PM:210:TYR:CZ	2.40	0.56
9:PN:282:ARG:NH1	9:PN:288:GLU:OE1	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PO:264:ARG:NH1	8:PO:431:ASP:OD2	2.39	0.56
28:Q4:138:GLN:OE1	28:Q4:140:ARG:NH2	2.33	0.56
28:Q5:63:TRP:H	28:Q5:63:TRP:CD1	2.22	0.56
9:QB:321:MET:HE2	9:QB:363:MET:SD	2.45	0.56
9:QD:172:SER:OG	9:QD:205:GLU:OE1	2.16	0.56
9:QJ:164:MET:SD	9:QJ:196:THR:HA	2.45	0.56
9:QJ:167:PHE:CG	9:QJ:233:MET:HE1	2.40	0.56
9:QL:403:MET:N	9:QL:403:MET:SD	2.78	0.56
8:QM:2:ARG:HE	8:QM:133:GLN:HB2	1.70	0.56
8:QO:11:GLN:O	8:QO:15:GLN:HG3	2.05	0.56
8:QO:317:MET:N	8:QO:317:MET:SD	2.77	0.56
9:RF:274:THR:HB	9:RF:278:SER:HB2	1.86	0.56
9:RJ:130:LEU:O	9:RJ:162:ARG:NH1	2.34	0.56
9:RL:54:ALA:HB3	9:RL:58:LYS:HB3	1.87	0.56
9:RP:8:GLN:HE21	9:RP:14:ASN:HA	1.70	0.56
12:S0:212:HIS:CD2	12:S0:217:LYS:HD3	2.40	0.56
12:S0:340:PHE:O	12:S0:344:ASN:ND2	2.38	0.56
12:S3:135:ILE:HD13	12:S4:389:LYS:HD2	1.85	0.56
8:SA:152:LEU:HA	8:SA:155:GLU:OE1	2.05	0.56
8:SA:259:LEU:HD11	8:SA:268:PRO:HG3	1.88	0.56
9:SF:269:GLY:HA2	9:SF:300:MET:HE3	1.87	0.56
9:SF:310:TYR:N	9:SF:340:TYR:O	2.34	0.56
8:SG:53:PHE:O	8:SG:64:ARG:NH1	2.38	0.56
8:SG:235:VAL:HA	8:SG:238:ILE:HD12	1.87	0.56
8:SK:285:GLN:HE22	8:SK:287:SER:HB3	1.70	0.56
8:SK:360:PRO:O	8:SK:370:LYS:NZ	2.38	0.56
9:SN:55:THR:HG23	9:TN:283:ALA:HA	1.87	0.56
9:SN:316:VAL:HG23	9:SN:352:ALA:HB3	1.87	0.56
25:T:299:LYS:NZ	25:T:328:ASP:OD2	2.39	0.56
14:T2:144:ALA:HB1	14:T2:437:TYR:CE2	2.40	0.56
14:T4:149:TYR:HB2	14:T4:183:ILE:HG21	1.85	0.56
14:T5:419:LYS:N	14:T5:419:LYS:HD3	2.19	0.56
9:TL:7:LEU:N	9:TL:134:GLN:O	2.37	0.56
8:TM:105:ARG:HH21	8:TM:110:ILE:HD11	1.70	0.56
8:TM:326:LYS:NZ	9:TN:211:CYS:SG	2.69	0.56
8:TM:360:PRO:O	8:TM:370:LYS:NZ	2.36	0.56
9:TN:54:ALA:HB3	9:TN:58:LYS:HB3	1.87	0.56
9:TN:361:LEU:HD12	9:TN:362:LYS:H	1.70	0.56
30:U0:201:ARG:NH1	30:U0:205:ASP:O	2.38	0.56
30:U3:390:LYS:HG2	30:U4:277:ILE:HG13	1.86	0.56
30:U7:213:LYS:HZ2	30:U7:217:ARG:HB2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U8:130:LEU:O	30:U8:134:MET:HG2	2.05	0.56
9:UH:58:LYS:NZ	9:VH:280:GLN:O	2.36	0.56
9:UH:198:GLU:HB2	9:UH:266:PHE:HE2	1.68	0.56
8:UK:116:ASP:N	8:UK:116:ASP:OD1	2.37	0.56
8:UM:316:CYS:HB3	8:UM:378:LEU:HB2	1.86	0.56
30:V4:173:LEU:HD22	30:V4:318:ARG:HG2	1.86	0.56
30:V5:271:ARG:O	30:V5:273:THR:N	2.38	0.56
30:V9:355:ASN:HA	30:V9:358:GLN:HG3	1.87	0.56
8:VA:245:ASP:HA	8:VA:249:ASN:HD21	1.70	0.56
9:VB:290:THR:HA	9:VB:293:MET:HE1	1.86	0.56
8:VC:269:LEU:HD22	8:VC:303:VAL:HG21	1.88	0.56
9:VH:375:GLN:NE2	9:VH:419:VAL:O	2.38	0.56
9:VJ:8:GLN:HB3	9:VJ:65:LEU:HA	1.87	0.56
9:VJ:249:ASP:H	9:VJ:252:LYS:HB2	1.70	0.56
8:VK:3:GLU:HA	8:VK:51:THR:HA	1.87	0.56
8:VK:302:MET:HA	8:VK:302:MET:HE3	1.86	0.56
9:VL:86:ARG:HG2	9:VL:88:ASP:H	1.70	0.56
8:VM:191:THR:HA	8:VM:194:THR:HG22	1.86	0.56
8:VM:297:GLU:O	8:VM:301:GLN:NE2	2.34	0.56
9:WB:111:GLU:OE2	9:WB:111:GLU:N	2.37	0.56
8:WC:68:VAL:HG12	8:WC:93:ILE:HB	1.87	0.56
8:WC:350:GLY:HA2	9:WD:179:VAL:HG12	1.87	0.56
8:WE:116:ASP:N	8:WE:116:ASP:OD1	2.38	0.56
8:WG:195:LEU:HD21	8:WG:264:ARG:HH21	1.71	0.56
8:WI:3:GLU:O	8:WI:133:GLN:N	2.34	0.56
8:WK:255:PHE:O	8:WK:259:LEU:HB2	2.04	0.56
8:WM:167:LEU:HD21	8:WM:255:PHE:HZ	1.70	0.56
8:WM:324:VAL:HG12	8:WM:326:LYS:H	1.70	0.56
8:WO:84:ARG:HH21	39:c:79:ILE:HD11	1.70	0.56
9:WP:415:MET:HA	9:WP:415:MET:HE2	1.87	0.56
34:X8:123:VAL:HA	34:X8:126:LEU:HG	1.87	0.56
35:XB:74:PRO:HD2	35:XB:169:ASP:HA	1.87	0.56
35:XD:36:ARG:HB2	35:XD:45:LEU:HD11	1.88	0.56
31:Y:613:ASP:OD2	31:Y:680:ARG:NH2	2.39	0.56
36:Y1:107:PHE:H	36:Y1:108:PRO:HD3	1.70	0.56
39:c:416:THR:HA	39:c:419:LYS:HE2	1.86	0.56
46:i4:1378:GLU:HA	46:i4:1381:GLN:OE1	2.04	0.56
4:j1:235:ARG:NH1	4:j1:236:GLU:OE2	2.37	0.56
4:j1:272:MET:HA	4:j1:275:LYS:HE3	1.87	0.56
2:1:433:GLY:HA3	9:IB:362:LYS:HE3	1.88	0.56
7:A1:329:CYS:SG	7:A2:66:ARG:NH2	2.77	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A1:340:GLU:OE2	7:A2:55:SER:OG	2.19	0.56
7:A2:105:TYR:HE1	7:A2:400:ARG:HE	1.53	0.56
7:A3:4:LEU:CD2	8:AG:364:PRO:HB2	2.36	0.56
9:AB:130:LEU:O	9:AB:162:ARG:NH1	2.32	0.56
8:AK:60:LYS:HE3	8:BK:283:HIS:ND1	2.20	0.56
8:AO:40:LYS:NZ	33:X5:97:PRO:HD2	2.20	0.56
10:B:102:HIS:HD2	9:HH:33:THR:HG21	1.69	0.56
11:B3:114:ILE:O	11:B3:118:THR:HG23	2.06	0.56
11:B3:304:LEU:HD12	11:B3:352:MET:HE3	1.88	0.56
11:B4:39:ARG:NH2	11:B5:292:GLU:O	2.37	0.56
9:BH:101:TRP:HB3	9:BH:398:TYR:HE2	1.71	0.56
9:BL:90:PHE:HB3	9:BL:92:PHE:HE2	1.69	0.56
8:BO:123:ARG:HH22	8:BO:124:LYS:HE2	1.70	0.56
9:BP:357:PRO:O	17:O7:270:TRP:NE1	2.38	0.56
8:CG:133:GLN:HG2	8:CG:252:LEU:HD13	1.87	0.56
8:CI:41:THR:OG1	25:V:244:ARG:NH2	2.38	0.56
8:CI:79:ARG:NH1	40:a2:16:GLY:O	2.38	0.56
8:CI:215:ARG:HH12	8:CI:299:ALA:HB1	1.70	0.56
8:CI:326:LYS:HZ1	9:CJ:220:PRO:C	2.11	0.56
8:CQ:302:MET:N	8:CQ:302:MET:SD	2.79	0.56
14:D0:71:ARG:HA	14:D1:328:GLU:OE2	2.05	0.56
14:D4:281:LEU:HD22	32:X3:211:TYR:HB3	1.88	0.56
9:DF:45:GLU:OE2	9:DF:46:ARG:NH2	2.38	0.56
9:FF:156:ARG:NH1	9:FF:197:ASP:OD1	2.36	0.56
8:FM:311:LYS:H	8:FM:382:THR:HG22	1.70	0.56
8:GC:171:ILE:HD13	8:GC:204:VAL:HG23	1.86	0.56
9:GH:136:THR:HG22	9:GH:167:PHE:HB2	1.87	0.56
9:GJ:12:CYS:O	9:GJ:16:ILE:HG23	2.05	0.56
8:GO:12:ALA:O	8:GO:16:ILE:HG12	2.06	0.56
9:HJ:321:MET:HE2	9:HJ:363:MET:HG3	1.87	0.56
9:HL:172:SER:OG	9:HL:174:LYS:NZ	2.39	0.56
8:HO:90:GLU:HB3	8:HO:121:ARG:NH2	2.19	0.56
8:IC:186:ASN:OD1	8:IC:408:TYR:OH	2.23	0.56
9:IL:173:PRO:HD3	9:IL:380:ARG:CZ	2.35	0.56
9:IN:198:GLU:HA	9:IN:264:HIS:HB2	1.86	0.56
19:J5:78:LEU:HD12	19:J5:79:PRO:HD2	1.87	0.56
9:JD:372:THR:HA	9:JD:422:TYR:HE1	1.69	0.56
8:JO:286:LEU:O	8:JO:373:ARG:NH1	2.39	0.56
9:JP:7:LEU:HB2	9:JP:135:LEU:HB2	1.86	0.56
9:KD:213:ARG:HH22	9:KD:297:LYS:HD3	1.69	0.56
8:KE:120:ASP:OD1	8:KE:124:LYS:NZ	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KK:318:LEU:HB2	8:KK:376:CYS:HB3	1.87	0.56
9:KL:256:ASN:HD22	8:KM:182:VAL:HG12	1.70	0.56
9:LF:32:PRO:HA	9:LF:84:ILE:HD11	1.86	0.56
8:LG:320:ARG:HD3	8:LG:360:PRO:HG3	1.88	0.56
9:LJ:199:THR:OG1	9:LJ:264:HIS:O	2.22	0.56
8:LO:186:ASN:O	8:LO:190:THR:OG1	2.20	0.56
8:MG:7:ILE:HD12	8:MG:137:ILE:HG12	1.87	0.56
8:NC:276:ILE:HD11	8:NC:286:LEU:HD11	1.87	0.56
8:NE:298:PRO:HG3	8:NE:308:ARG:HE	1.70	0.56
9:NF:132:GLY:HA3	9:NF:163:ILE:HG13	1.88	0.56
9:NJ:393:ALA:O	9:NJ:394:PHE:HB2	2.05	0.56
9:OL:289:LEU:O	9:OL:293:MET:HG2	2.05	0.56
9:ON:8:GLN:HG2	9:ON:14:ASN:HA	1.87	0.56
8:OO:394:LYS:O	8:OO:398:MET:HG2	2.06	0.56
23:P:262:ARG:HE	23:P:268:ARG:HG3	1.71	0.56
17:P9:99:GLU:OE1	30:W7:57:HIS:HB3	2.04	0.56
8:PE:90:GLU:OE2	8:PE:121:ARG:NH1	2.38	0.56
9:PL:407:GLU:HA	9:PL:410:GLU:HG2	1.88	0.56
8:PO:297:GLU:O	8:PO:301:GLN:NE2	2.33	0.56
28:Q3:191:PRO:HA	28:Q3:198:PRO:HA	1.88	0.56
9:QF:67:ASP:HA	9:QF:143:THR:HG21	1.88	0.56
8:QI:236:SER:OG	8:QI:243:ARG:NH2	2.38	0.56
9:QL:150:LEU:HG	9:QL:154:LYS:HE2	1.86	0.56
9:QN:1:MET:HE3	9:QN:2:ARG:H	1.69	0.56
9:QN:182:PRO:O	9:QN:186:THR:OG1	2.24	0.56
11:R4:193:ASN:ND2	11:R4:196:SER:OG	2.39	0.56
8:RM:275:VAL:C	8:RM:276:ILE:HD13	2.31	0.56
9:RN:285:THR:HB	9:RN:287:PRO:HD2	1.86	0.56
12:S9:170:GLU:OE2	12:S9:322:ARG:NH2	2.38	0.56
8:SI:319:TYR:HE2	8:SI:353:VAL:HG13	1.71	0.56
8:SM:377:MET:HE2	8:SM:379:SER:HB3	1.87	0.56
14:T1:8:LEU:HD23	14:T2:253:THR:HG23	1.87	0.56
14:T5:416:ILE:O	14:T5:420:THR:HG23	2.05	0.56
9:TB:320:ARG:HH22	9:TB:355:ASP:HB3	1.70	0.56
9:TF:325:GLU:OE2	8:TG:221:ARG:NH1	2.38	0.56
9:TH:166:THR:HG23	9:TH:199:THR:HG23	1.88	0.56
8:TK:245:ASP:HA	8:TK:249:ASN:HD21	1.70	0.56
8:TM:3:GLU:H	8:TM:133:GLN:HG2	1.70	0.56
8:TM:188:ILE:O	8:TM:191:THR:OG1	2.20	0.56
30:U2:328:LEU:O	30:U2:331:GLN:N	2.38	0.56
30:U3:310:MET:HA	30:U3:310:MET:HE3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U8:363:LYS:HZ3	30:U8:363:LYS:HB2	1.70	0.56
8:UG:33:ASP:HA	8:UG:85:GLN:HE21	1.70	0.56
9:UJ:324:LYS:HB2	8:UK:221:ARG:HH12	1.71	0.56
8:UO:107:HIS:HA	8:UO:152:LEU:HD23	1.87	0.56
30:V3:240:ILE:HG22	30:V3:241:ARG:HH11	1.70	0.56
9:VB:313:VAL:HG13	9:VB:367:PHE:HE1	1.69	0.56
9:VF:36:TYR:OH	9:VF:40:SER:O	2.23	0.56
9:VH:234:SER:O	9:VH:238:THR:OG1	2.23	0.56
8:VM:236:SER:O	8:VM:243:ARG:NH1	2.35	0.56
9:VN:285:THR:HG22	9:VN:288:GLU:HG3	1.86	0.56
8:WA:254:GLU:O	8:WA:258:ASN:ND2	2.39	0.56
8:WI:68:VAL:HG12	8:WI:93:ILE:HB	1.87	0.56
8:WI:320:ARG:HD3	8:WI:360:PRO:HG3	1.88	0.56
9:WJ:313:VAL:HB	9:WJ:349:VAL:HG22	1.88	0.56
8:WK:286:LEU:O	8:WK:373:ARG:NH1	2.39	0.56
8:WM:365:GLY:H	42:g:442:ARG:HH22	1.54	0.56
32:X3:199:CYS:SG	32:X3:200:SER:N	2.77	0.56
35:XB:15:TYR:HD1	35:XB:16:SER:H	1.53	0.56
36:Y1:100:THR:CG2	36:Y1:101:PRO:HD2	2.34	0.56
36:Y2:79:THR:OG1	36:Y2:80:GLY:N	2.38	0.56
40:a1:70:CYS:SG	40:a1:71:SER:N	2.77	0.56
42:f:372:VAL:HG13	48:r:132:ASN:HD22	1.70	0.56
43:h:155:PRO:HB2	43:h:158:ILE:HD13	1.85	0.56
7:A0:300:GLU:N	7:A0:300:GLU:OE1	2.38	0.56
9:AD:284:LEU:HG	9:MD:55:THR:HG21	1.86	0.56
8:AI:4:CYS:HA	8:AI:134:GLY:O	2.05	0.56
8:AI:334:THR:O	8:AI:337:THR:OG1	2.24	0.56
11:B5:108:LEU:HD12	28:Q5:62:VAL:HG22	1.87	0.56
9:BH:10:GLY:O	9:BH:14:ASN:ND2	2.38	0.56
8:CE:70:LEU:HB3	8:CE:98:ASP:HA	1.88	0.56
8:CE:370:LYS:NZ	25:U:235:PHE:O	2.39	0.56
9:DF:58:LYS:HE2	9:ED:280:GLN:HG2	1.87	0.56
8:DK:320:ARG:HD3	8:DK:360:PRO:HG3	1.88	0.56
8:DO:147:SER:OG	8:DO:190:THR:OG1	2.16	0.56
8:DQ:84:ARG:NH2	17:O7:57:SER:O	2.32	0.56
8:EG:114:ILE:HD12	8:EG:117:LEU:HD13	1.86	0.56
9:EL:322:SER:O	8:EM:221:ARG:NH2	2.38	0.56
9:FF:8:GLN:HE21	9:FF:14:ASN:HA	1.71	0.56
8:GK:150:ALA:O	8:GK:154:MET:HG2	2.06	0.56
9:GL:113:VAL:HG11	9:GL:150:LEU:HD23	1.87	0.56
8:GO:276:ILE:HG22	8:GO:280:LYS:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HL:322:SER:OG	8:HM:222:PRO:O	2.22	0.56
9:ID:358:PRO:HG2	9:ID:361:LEU:HB3	1.87	0.56
9:IH:416:ASN:O	9:IH:420:SER:OG	2.20	0.56
9:JP:323:MET:SD	9:JP:323:MET:N	2.76	0.56
8:JQ:345:ASP:OD1	8:JQ:345:ASP:N	2.36	0.56
8:KG:200:CYS:SG	8:KG:201:ALA:N	2.77	0.56
8:KK:56:THR:HG22	8:LK:285:GLN:HB2	1.87	0.56
8:LA:172:TYR:HH	8:LA:388:TRP:CD1	2.22	0.56
8:LE:252:LEU:HA	8:LE:255:PHE:CE1	2.41	0.56
9:LH:325:GLU:OE2	8:LI:221:ARG:NH1	2.39	0.56
8:MO:298:PRO:HG3	8:MO:308:ARG:HH12	1.71	0.56
8:NE:53:PHE:O	8:NE:64:ARG:NH1	2.39	0.56
8:NM:76:ASP:HA	8:NM:79:ARG:HE	1.69	0.56
8:NM:271:THR:HB	8:NM:377:MET:HB3	1.88	0.56
8:NM:317:MET:HE1	8:NM:377:MET:HE1	1.88	0.56
9:OD:86:ARG:HG3	9:PD:281:TYR:CD2	2.40	0.56
17:P8:53:CYS:SG	17:P8:55:VAL:N	2.77	0.56
9:PD:54:ALA:HB3	9:PD:58:LYS:HB3	1.88	0.56
9:QF:54:ALA:HB3	9:QF:58:LYS:HB3	1.87	0.56
8:QM:328:VAL:HG21	8:QM:355:ILE:HD11	1.87	0.56
9:QN:156:ARG:HH11	9:QN:164:MET:HE2	1.71	0.56
11:R2:398:THR:HA	11:R2:403:LYS:HD2	1.88	0.56
8:RC:264:ARG:NH1	8:RC:431:ASP:OD2	2.38	0.56
8:RE:66:VAL:HG21	8:RE:122:ILE:HD13	1.87	0.56
9:RP:303:CYS:SG	9:RP:376:GLU:HB3	2.46	0.56
12:S6:123:ASP:OD2	12:S7:437:ARG:NH2	2.30	0.56
8:SC:7:ILE:HD13	8:SC:137:ILE:HG13	1.86	0.56
8:SC:70:LEU:HB3	8:SC:98:ASP:HA	1.88	0.56
8:SC:203:MET:HA	8:SC:203:MET:HE2	1.88	0.56
9:SD:8:GLN:HE21	9:SD:14:ASN:HA	1.69	0.56
9:SH:302:ALA:HB3	9:SH:377:LEU:HD11	1.86	0.56
25:T:361:MET:N	25:T:361:MET:SD	2.78	0.56
9:TB:114:ASP:N	9:TB:114:ASP:OD1	2.35	0.56
9:TD:114:ASP:OD1	9:TD:115:SER:N	2.38	0.56
9:TD:169:VAL:HA	9:TD:202:ILE:HG22	1.87	0.56
25:U:270:ASP:N	25:U:270:ASP:OD1	2.38	0.56
9:UF:330:MET:SD	9:UF:349:VAL:HB	2.45	0.56
9:UJ:337:ASN:HB3	9:UJ:340:TYR:HD2	1.69	0.56
9:VJ:256:ASN:HD21	8:VK:181:VAL:H	1.54	0.56
9:VL:325:GLU:HA	9:VL:328:GLU:HG3	1.86	0.56
9:VL:357:PRO:HG2	39:b:390:ARG:HH21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VN:215:LEU:HD21	9:VN:273:LEU:HD12	1.87	0.56
9:WB:323:MET:H	9:WB:323:MET:HE3	1.70	0.56
34:X6:3:GLY:O	34:X6:81:VAL:HG21	2.06	0.56
34:X7:112:ALA:HB1	34:X7:205:MET:HE1	1.86	0.56
35:XF:172:TYR:HB3	35:XF:176:GLU:HG2	1.87	0.56
37:YE:168:GLU:N	37:YE:168:GLU:OE1	2.38	0.56
42:f:489:ASP:HB2	42:f:496:ASN:ND2	2.16	0.56
42:g:383:MET:HE2	42:g:429:CYS:HA	1.87	0.56
46:i3:1335:GLN:HE22	46:i3:1374:ILE:HD11	1.71	0.56
7:A3:26:ARG:NH1	31:X:64:ASP:OD1	2.39	0.56
9:AJ:224:ASP:OD1	9:AJ:225:LEU:HD12	2.05	0.56
8:AO:315:CYS:HB3	8:AO:377:MET:HE1	1.86	0.56
8:BK:317:MET:HE1	8:BK:377:MET:HG3	1.86	0.56
12:C2:93:ARG:NH2	12:C3:203:GLU:OE1	2.39	0.56
8:CC:345:ASP:N	8:CC:345:ASP:OD1	2.37	0.56
9:CL:359:ARG:HE	27:P6:12:VAL:HG11	1.71	0.56
14:D1:98:ASP:OD2	14:D2:376:ARG:NH1	2.33	0.56
8:DK:234:ILE:HD11	8:DK:272:TYR:HB2	1.88	0.56
9:DP:5:VAL:HB	9:DP:133:PHE:HD1	1.69	0.56
9:DP:20:PHE:CG	9:DP:233:MET:HE2	2.39	0.56
8:EG:294:ALA:HA	8:EG:297:GLU:HG2	1.86	0.56
9:EJ:282:ARG:HH22	9:EJ:288:GLU:HG3	1.70	0.56
8:EO:322:ASP:OD1	8:EO:373:ARG:NH2	2.39	0.56
9:FD:362:LYS:HG2	9:FD:363:MET:HG3	1.87	0.56
9:FH:376:GLU:HG2	9:FH:380:ARG:HH12	1.70	0.56
8:GE:9:VAL:HG11	8:GE:150:ALA:HB2	1.87	0.56
8:GI:56:THR:HA	8:HI:285:GLN:HB2	1.88	0.56
9:GL:372:THR:HA	9:GL:422:TYR:HE1	1.69	0.56
9:GN:7:LEU:N	9:GN:134:GLN:O	2.39	0.56
8:HE:80:THR:O	8:HE:84:ARG:NH2	2.39	0.56
8:HO:345:ASP:OD1	8:HO:345:ASP:N	2.39	0.56
8:IE:317:MET:HE1	8:IE:377:MET:HG3	1.87	0.56
9:IF:46:ARG:HH12	8:IG:73:THR:HB	1.70	0.56
9:IH:54:ALA:HB3	9:IH:58:LYS:HB2	1.87	0.56
8:IK:7:ILE:HB	8:IK:137:ILE:HD12	1.86	0.56
19:J3:68:LEU:HB2	9:OF:322:SER:HB2	1.88	0.56
19:J5:136:ARG:NH2	9:KP:195:ASN:OD1	2.38	0.56
9:JB:136:THR:HG22	9:JB:167:PHE:HB2	1.87	0.56
9:JD:324:LYS:HD3	8:JE:221:ARG:HH22	1.70	0.56
8:JE:286:LEU:O	8:JE:373:ARG:NH1	2.39	0.56
8:JE:413:MET:HA	8:JE:413:MET:HE2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JI:11:GLN:NE2	50:JI:501:GTP:O1B	2.30	0.56
9:JL:215:LEU:HG	9:JL:217:LEU:HD23	1.85	0.56
9:JL:350:LYS:NZ	9:JL:351:THR:O	2.34	0.56
8:JO:206:ASN:OD1	50:JO:501:GTP:N2	2.38	0.56
8:JQ:36:MET:HE1	8:JQ:39:ASP:HA	1.87	0.56
8:KA:337:THR:HA	8:KA:339:ARG:HH12	1.71	0.56
9:KB:122:LYS:HD2	9:LB:291:GLN:HG2	1.86	0.56
9:KF:323:MET:SD	8:KG:224:TYR:N	2.79	0.56
8:KM:311:LYS:HD2	8:KM:436:GLY:HA2	1.88	0.56
9:KN:324:LYS:HD3	8:KO:210:TYR:CE1	2.41	0.56
9:LH:322:SER:OG	8:LI:222:PRO:O	2.19	0.56
8:MA:116:ASP:N	8:MA:116:ASP:OD1	2.38	0.56
8:MC:167:LEU:HD21	8:MC:255:PHE:HZ	1.70	0.56
9:MN:321:MET:N	9:MN:321:MET:SD	2.78	0.56
8:MO:47:ASP:OD2	8:MO:48:SER:N	2.29	0.56
15:N2:32:LYS:HA	15:N2:35:LYS:HD2	1.88	0.56
15:N2:261:GLU:OE1	15:N2:261:GLU:N	2.33	0.56
8:NI:171:ILE:HD13	8:NI:204:VAL:HG13	1.87	0.56
8:NK:195:LEU:HD11	8:NK:264:ARG:HG3	1.86	0.56
9:NN:415:MET:HA	9:NN:418:LEU:HB3	1.87	0.56
9:NP:7:LEU:HD21	9:NP:151:LEU:HD12	1.87	0.56
17:O7:307:ALA:O	17:O7:311:GLU:HG2	2.05	0.56
9:OB:83:GLN:OE1	9:OB:83:GLN:N	2.33	0.56
9:OB:87:PRO:HD3	9:PB:281:TYR:CD2	2.40	0.56
9:OJ:274:THR:OG1	9:OJ:279:GLN:NE2	2.39	0.56
27:P3:59:ASN:O	27:P3:61:ASN:N	2.37	0.56
8:PI:311:LYS:HG3	8:PI:342:GLN:HB3	1.87	0.56
8:PI:327:ASP:HA	8:PI:330:ALA:HB3	1.87	0.56
9:PP:273:LEU:O	9:PP:292:GLN:NE2	2.38	0.56
8:QK:215:ARG:NH2	8:QK:299:ALA:O	2.39	0.56
9:QL:46:ARG:NH2	8:QM:73:THR:OG1	2.38	0.56
9:QN:323:MET:N	9:QN:323:MET:HE2	2.21	0.56
9:RD:68:LEU:HB3	9:RD:96:GLY:HA2	1.87	0.56
8:RM:216:ASN:CB	8:RM:275:VAL:HG23	2.35	0.56
8:SG:241:SER:OG	8:SG:250:VAL:O	2.18	0.56
8:TA:245:ASP:HA	8:TA:249:ASN:HD21	1.71	0.56
8:TI:70:LEU:HB3	8:TI:98:ASP:HA	1.88	0.56
9:TL:172:SER:OG	9:TL:205:GLU:OE1	2.23	0.56
9:TL:325:GLU:OE2	8:TM:221:ARG:NH1	2.37	0.56
25:U:194:LEU:HD22	25:U:199:ILE:HD12	1.87	0.56
30:U0:360:GLN:NE2	30:U1:107:GLU:OE2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UD:56:GLY:HA2	39:a:283:LYS:HB3	1.87	0.56
9:VD:118:ASP:HA	9:VD:121:ARG:HE	1.71	0.56
9:VF:267:MET:HE3	9:VF:299:MET:HE2	1.87	0.56
9:VL:257:MET:N	9:VL:257:MET:SD	2.79	0.56
30:W6:325:PHE:HB3	30:W6:483:THR:HG22	1.87	0.56
9:WB:273:LEU:O	9:WB:292:GLN:NE2	2.39	0.56
35:XG:74:PRO:HD2	35:XG:169:ASP:HA	1.86	0.56
37:YB:65:PHE:HB3	37:YB:67:ILE:HG23	1.87	0.56
39:a:300:ASP:OD1	39:a:303:ARG:NH2	2.39	0.56
43:k:221:VAL:HA	43:k:224:LYS:HD2	1.86	0.56
2:1:479:ARG:O	2:1:483:LYS:HG2	2.06	0.56
5:8:122:GLN:HB2	8:II:1:MET:H2	1.69	0.56
7:A3:289:ILE:O	7:A3:293:GLU:HG3	2.06	0.56
7:A4:317:LEU:HD21	7:A5:206:ARG:HD3	1.88	0.56
9:AB:173:PRO:HG2	9:AB:174:LYS:HD3	1.88	0.56
8:AC:132:LEU:O	8:AC:164:LYS:NZ	2.37	0.56
8:AE:75:VAL:HB	8:AE:79:ARG:HH21	1.71	0.56
8:AI:33:ASP:OD1	8:AI:33:ASP:N	2.38	0.56
9:AL:372:THR:HG21	9:AL:426:GLN:HB2	1.87	0.56
8:BC:165:SER:HB3	8:BC:256:GLN:HE22	1.70	0.56
9:BF:313:VAL:HG13	9:BF:367:PHE:HE1	1.71	0.56
9:BH:207:LEU:HD21	9:BH:229:VAL:HG23	1.88	0.56
8:BK:337:THR:HA	8:BK:339:ARG:HH22	1.70	0.56
9:CF:5:VAL:HG22	9:CF:62:ARG:HD2	1.86	0.56
8:CM:234:ILE:HD11	8:CM:272:TYR:HB2	1.88	0.56
8:CO:317:MET:N	8:CO:317:MET:HE2	2.20	0.56
8:DK:294:ALA:O	8:DK:300:ASN:ND2	2.38	0.56
8:DK:338:LYS:HZ1	8:DK:340:THR:H	1.54	0.56
8:DO:322:ASP:OD2	8:DO:373:ARG:NH2	2.39	0.56
9:EB:247:ASN:O	9:EB:252:LYS:NZ	2.39	0.56
8:EE:430:LYS:NZ	8:EE:431:ASP:OD1	2.39	0.56
9:FD:136:THR:HG22	9:FD:167:PHE:HB2	1.87	0.56
8:FG:56:THR:HA	8:GG:285:GLN:HB2	1.87	0.56
9:FL:325:GLU:HG2	8:FM:221:ARG:NH2	2.21	0.56
9:FN:27:GLU:OE1	9:FN:27:GLU:N	2.33	0.56
9:FN:267:MET:HE2	9:FN:301:ALA:HB3	1.87	0.56
16:G:46:LEU:HG	16:G:58:ILE:HD12	1.85	0.56
8:GA:408:TYR:HB3	8:GA:413:MET:HE2	1.87	0.56
9:GD:257:MET:SD	9:GD:312:THR:OG1	2.64	0.56
8:GE:188:ILE:O	8:GE:191:THR:OG1	2.24	0.56
8:HC:215:ARG:NH2	8:HC:299:ALA:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HD:318:ARG:HB3	9:HD:358:PRO:HD3	1.88	0.56
8:HE:317:MET:HE3	8:HE:351:PHE:HD1	1.71	0.56
8:HG:79:ARG:HH22	8:HG:94:THR:HG21	1.70	0.56
9:HH:273:LEU:O	9:HH:292:GLN:NE2	2.26	0.56
8:HI:186:ASN:O	8:HI:190:THR:OG1	2.15	0.56
8:HK:76:ASP:OD1	8:HK:79:ARG:NH2	2.38	0.56
9:HN:170:VAL:HG11	9:HN:377:LEU:HD21	1.88	0.56
9:IB:8:GLN:HB3	9:IB:65:LEU:HA	1.87	0.56
9:ID:296:ALA:HB3	36:Y1:240:ILE:HG12	1.86	0.56
8:IE:172:TYR:CD2	8:IE:203:MET:HE2	2.40	0.56
8:IE:402:ARG:NH2	8:IE:415:GLU:OE1	2.38	0.56
8:IG:352:LYS:HD2	8:IG:352:LYS:N	2.21	0.56
19:J4:87:LEU:O	8:OK:373:ARG:NH2	2.36	0.56
9:JF:12:CYS:SG	9:JF:169:VAL:HG21	2.45	0.56
9:JF:33:THR:OG1	15:N2:101:LYS:NZ	2.38	0.56
9:JJ:332:ASN:HB3	9:JJ:336:LYS:HZ1	1.71	0.56
8:JQ:12:ALA:O	8:JQ:16:ILE:HG13	2.05	0.56
8:KA:322:ASP:OD2	8:KA:373:ARG:NH2	2.34	0.56
9:KD:341:PHE:CE1	9:KD:348:ASN:HB2	2.41	0.56
8:KO:51:THR:HG21	8:KO:243:ARG:HG2	1.86	0.56
8:LC:130:THR:OG1	8:LC:131:GLY:N	2.39	0.56
9:LJ:323:MET:HA	9:LJ:326:VAL:HG12	1.87	0.56
9:LL:201:CYS:HB2	9:LL:267:MET:HE1	1.88	0.56
8:LM:264:ARG:NH1	8:LM:431:ASP:OD2	2.38	0.56
8:MC:254:GLU:HG2	9:MD:98:GLY:HA2	1.88	0.56
8:ME:245:ASP:O	23:P:268:ARG:NH2	2.38	0.56
9:MF:1:MET:N	9:MF:3:GLU:OE2	2.38	0.56
8:MG:50:ASN:HD22	31:X:24:GLN:HG3	1.71	0.56
9:ND:316:VAL:HG22	9:ND:352:ALA:HB3	1.86	0.56
9:NF:121:ARG:O	9:NF:125:GLU:HB3	2.05	0.56
9:NH:304:ASP:OD2	9:NH:307:HIS:N	2.39	0.56
8:NI:87:PHE:HD1	8:NI:88:HIS:H	1.54	0.56
9:NJ:230:SER:HA	9:NJ:233:MET:HE3	1.87	0.56
9:NL:189:VAL:HA	9:NL:192:LEU:HD12	1.86	0.56
8:NO:70:LEU:HB3	8:NO:98:ASP:HA	1.86	0.56
9:OB:7:LEU:N	9:OB:134:GLN:O	2.38	0.56
8:OE:101:ASN:OD1	8:OE:186:ASN:ND2	2.39	0.56
9:OF:120:VAL:HG11	9:OF:155:ILE:HD11	1.87	0.56
27:P3:38:PRO:HA	27:P3:41:GLN:HE21	1.71	0.56
27:P5:115:ALA:HB1	11:R3:30:ARG:HH12	1.69	0.56
27:P6:159:ASP:OD1	17:P9:56:LEU:HD22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PB:198:GLU:HA	9:PB:264:HIS:HB2	1.87	0.56
8:PK:168:GLU:OE1	8:PK:170:ALA:HB2	2.06	0.56
28:Q1:44:LYS:HE2	28:Q1:67:LEU:HD21	1.88	0.56
9:QJ:31:ASP:OD1	9:QJ:35:THR:N	2.36	0.56
11:R4:135:GLU:HG3	11:R4:139:LYS:NZ	2.21	0.56
8:RC:326:LYS:NZ	9:RD:220:PRO:O	2.39	0.56
8:RC:339:ARG:HH22	8:RC:342:GLN:HG2	1.69	0.56
9:RF:237:THR:HG22	9:RF:250:LEU:HD21	1.86	0.56
8:RI:292:THR:HG21	8:RI:331:ALA:HB1	1.87	0.56
9:RL:323:MET:HA	9:RL:323:MET:HE3	1.88	0.56
9:RN:237:THR:HG22	9:RN:250:LEU:HD21	1.86	0.56
8:RO:90:GLU:HG2	8:SM:280:LYS:HE2	1.87	0.56
8:RO:188:ILE:O	8:RO:191:THR:OG1	2.22	0.56
12:S4:243:GLN:NE2	12:S4:247:ASP:OD1	2.38	0.56
12:S7:373:PHE:HZ	14:T2:42:ALA:HA	1.71	0.56
8:SI:315:CYS:HB3	8:SI:377:MET:HE1	1.88	0.56
8:SK:274:PRO:HB2	8:SK:276:ILE:HD12	1.87	0.56
14:T1:90:ALA:HB1	14:T1:94:ARG:HH12	1.71	0.56
8:TA:21:TRP:HZ3	8:TA:53:PHE:CE1	2.24	0.56
9:TH:1:MET:HE1	9:TH:2:ARG:HE	1.69	0.56
8:TK:96:LYS:HE2	8:TK:96:LYS:H	1.68	0.56
30:U7:264:ASP:N	30:U7:264:ASP:OD1	2.38	0.56
30:U8:418:ASN:OD1	30:W2:435:ARG:NH1	2.39	0.56
30:U9:214:ASN:HB3	30:U9:339:THR:HG22	1.86	0.56
30:U9:389:LEU:HB2	30:U9:423:ILE:HG21	1.88	0.56
8:UE:49:PHE:HB2	8:UE:53:PHE:HD2	1.71	0.56
9:UL:285:THR:HB	9:UL:287:PRO:HD2	1.86	0.56
9:UN:167:PHE:CZ	9:UN:233:MET:HG3	2.41	0.56
30:V4:225:CYS:SG	30:V4:332:MET:HE1	2.45	0.56
9:VB:1:MET:HE2	9:VB:48:ASN:HD21	1.69	0.56
8:VC:70:LEU:HB3	8:VC:98:ASP:HA	1.87	0.56
9:VF:309:ARG:NH2	9:VF:339:SER:O	2.38	0.56
8:VI:277:SER:H	8:VI:280:LYS:HZ3	1.53	0.56
9:VL:337:ASN:HB3	9:VL:340:TYR:HD2	1.71	0.56
31:W:246:ARG:NH2	31:W:378:CYS:O	2.39	0.56
8:WG:121:ARG:HH12	35:XD:6:PHE:HB2	1.70	0.56
9:WH:8:GLN:HE21	9:WH:14:ASN:HA	1.70	0.56
8:WI:437:VAL:O	9:WJ:391:ARG:NH2	2.30	0.56
9:WJ:204:ASN:OD1	52:WJ:502:GDP:N2	2.39	0.56
8:WM:221:ARG:HE	8:WM:221:ARG:HA	1.71	0.56
42:f:170:ARG:HG2	42:f:172:GLU:H	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:g:525:LYS:HA	42:g:542:GLY:H	1.70	0.56
46:i4:1331:ARG:HA	46:i4:1334:LYS:HD2	1.88	0.56
4:j1:27:ALA:H	4:j1:102:THR:HG21	1.71	0.56
9:AB:215:LEU:HD21	9:AB:273:LEU:HD12	1.86	0.56
9:AB:318:ARG:HD3	9:AB:358:PRO:HD3	1.88	0.56
9:AH:253:LEU:O	9:AH:257:MET:HB2	2.05	0.56
8:AK:188:ILE:O	8:AK:191:THR:OG1	2.23	0.56
8:AO:151:SER:HA	8:AO:193:THR:HG21	1.88	0.56
8:BI:439:SER:OG	9:BJ:390:ARG:NH2	2.39	0.56
8:BO:195:LEU:HD11	8:BO:264:ARG:HE	1.71	0.56
9:BP:313:VAL:HG13	9:BP:367:PHE:HE1	1.70	0.56
12:C3:87:ARG:O	12:C3:87:ARG:NE	2.37	0.56
12:C3:118:GLU:OE1	12:C3:121:ARG:NH2	2.38	0.56
9:CB:39:ASP:OD1	9:CB:39:ASP:N	2.39	0.56
9:CB:69:GLU:HG2	9:CB:71:GLY:H	1.71	0.56
8:CI:213:CYS:HA	8:CI:217:LEU:HB2	1.86	0.56
8:CK:317:MET:HE3	8:CK:332:ILE:HD11	1.88	0.56
9:CL:163:ILE:HG21	9:CL:250:LEU:HD22	1.87	0.56
9:CL:177:ASP:N	9:CL:177:ASP:OD1	2.38	0.56
9:CN:330:MET:HB3	9:CN:349:VAL:HG21	1.87	0.56
9:EF:356:ILE:HD12	9:EF:357:PRO:HD2	1.88	0.56
9:EH:167:PHE:CD1	9:EH:233:MET:HE3	2.41	0.56
8:FA:208:ALA:O	8:FA:212:ILE:HG12	2.06	0.56
9:FF:94:GLN:HG2	36:Y2:210:GLY:HA3	1.88	0.56
8:GE:76:ASP:O	8:GE:80:THR:OG1	2.23	0.56
8:GG:49:PHE:HB2	8:GG:53:PHE:HD2	1.71	0.56
8:GK:275:VAL:HG12	8:GK:368:LEU:HD11	1.88	0.56
8:HC:116:ASP:N	8:HC:116:ASP:OD1	2.38	0.56
9:IB:149:THR:HB	9:IB:191:GLN:HG2	1.87	0.56
8:IC:326:LYS:NZ	9:ID:221:THR:O	2.39	0.56
9:IF:230:SER:HA	9:IF:233:MET:HE2	1.88	0.56
8:II:254:GLU:HG3	9:IJ:98:GLY:HA2	1.87	0.56
19:J3:33:ARG:HH21	19:J3:78:LEU:HD13	1.69	0.56
19:J5:118:ARG:HH12	19:J5:142:ARG:HB3	1.71	0.56
9:JD:328:GLU:HA	9:JD:331:LEU:HB3	1.87	0.56
8:JE:332:ILE:HG22	8:JE:336:LYS:HE2	1.86	0.56
8:JK:167:LEU:HD13	8:JK:200:CYS:HB2	1.87	0.56
8:JO:9:VAL:HG12	8:JO:146:GLY:HA2	1.87	0.56
9:KF:69:GLU:OE1	9:KF:71:GLY:N	2.33	0.56
9:KF:406:MET:N	9:KF:406:MET:SD	2.79	0.56
9:KP:292:GLN:O	9:KP:298:ASN:ND2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LB:173:PRO:HG3	9:LB:380:ARG:HD3	1.87	0.56
9:LD:262:ARG:HH11	43:i:69:GLU:HG3	1.71	0.56
8:LK:4:CYS:HB3	8:LK:136:LEU:HD23	1.88	0.56
8:LO:159:VAL:HA	45:i1:109:LEU:HD13	1.88	0.56
22:M2:159:LYS:O	22:M2:163:ASN:ND2	2.34	0.56
8:MA:70:LEU:HB3	8:MA:98:ASP:HA	1.88	0.56
8:MM:437:VAL:O	9:MN:391:ARG:NH2	2.33	0.56
8:NE:115:VAL:HG22	8:NE:152:LEU:HD13	1.86	0.56
8:NO:430:LYS:HG3	8:NO:434:GLU:OE1	2.06	0.56
24:O1:27:SER:HA	24:O1:100:ARG:HD3	1.87	0.56
17:O7:294:ASP:N	17:O7:294:ASP:OD2	2.39	0.56
9:OD:150:LEU:HG	9:OD:154:LYS:HE2	1.88	0.56
8:OE:264:ARG:NH1	8:OE:431:ASP:OD2	2.39	0.56
9:OH:156:ARG:NH1	9:OH:197:ASP:OD1	2.39	0.56
8:OO:48:SER:OG	8:OO:243:ARG:O	2.22	0.56
9:OP:372:THR:O	9:OP:375:GLN:NE2	2.36	0.56
23:P:165:GLU:HG2	23:P:169:GLN:HE22	1.68	0.56
9:PF:248:ALA:HA	9:PF:252:LYS:HG2	1.87	0.56
9:PP:309:ARG:NH2	9:PP:339:SER:O	2.38	0.56
23:Q:324:LEU:HD11	31:Z:11:PHE:CD2	2.40	0.56
23:Q:324:LEU:HD11	31:Z:11:PHE:HD2	1.71	0.56
8:QM:139:HIS:O	8:QM:170:ALA:HA	2.06	0.56
9:QN:280:GLN:HG3	9:QN:281:TYR:CE2	2.41	0.56
8:RC:203:MET:HE1	8:RC:388:TRP:HE1	1.70	0.56
8:RG:289:ALA:O	8:RG:293:ASN:ND2	2.39	0.56
9:RH:257:MET:HE3	9:RH:314:ALA:HB2	1.86	0.56
9:RH:324:LYS:HG3	8:RI:222:PRO:HD2	1.88	0.56
9:RN:10:GLY:O	9:RN:14:ASN:ND2	2.38	0.56
8:RO:132:LEU:O	8:RO:164:LYS:NZ	2.35	0.56
12:S7:183:ARG:NE	12:S7:183:ARG:HA	2.21	0.56
12:S9:180:ARG:HH22	12:S9:329:LEU:HD13	1.71	0.56
12:S9:183:ARG:HA	12:S9:186:ILE:HD12	1.88	0.56
9:SD:279:GLN:NE2	47:p:543:LEU:O	2.39	0.56
8:SE:86:LEU:O	8:TE:283:HIS:HE1	1.89	0.56
8:SE:167:LEU:HD11	8:SE:252:LEU:HD11	1.87	0.56
8:SG:204:VAL:CG1	8:SG:302:MET:HG3	2.36	0.56
9:SH:346:PRO:HD2	8:SI:398:MET:HE3	1.87	0.56
8:SM:171:ILE:HD13	8:SM:204:VAL:HG13	1.88	0.56
9:SN:267:MET:HB2	9:SN:299:MET:HE2	1.88	0.56
8:TE:248:LEU:HD21	9:TF:222:TYR:HE2	1.70	0.56
8:TK:137:ILE:HG12	8:TK:154:MET:HE1	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TM:151:SER:HA	8:TM:193:THR:HG21	1.88	0.56
30:U9:344:ASN:OD1	30:V4:344:ASN:ND2	2.26	0.56
30:U9:399:ARG:NH2	30:U9:410:ASP:OD2	2.38	0.56
8:UK:151:SER:HA	8:UK:193:THR:HG21	1.87	0.56
25:V:151:ARG:O	25:V:152:GLN:NE2	2.38	0.56
25:V:277:GLU:OE1	25:V:277:GLU:N	2.29	0.56
25:V:371:LYS:H	40:a3:160:ALA:HA	1.70	0.56
30:V8:210:ASN:O	30:V8:214:ASN:ND2	2.38	0.56
8:VG:372:GLN:HE22	8:VG:373:ARG:HG2	1.69	0.56
8:VI:109:THR:O	8:VI:112:LYS:NZ	2.33	0.56
30:W7:125:GLN:NE2	30:W7:129:GLN:OE1	2.38	0.56
9:WD:10:GLY:O	9:WD:14:ASN:ND2	2.39	0.56
8:WI:70:LEU:HB3	8:WI:98:ASP:HA	1.88	0.56
8:WK:68:VAL:HG12	8:WK:93:ILE:HB	1.87	0.56
9:WP:104:GLY:O	9:WP:147:MET:HB3	2.06	0.56
9:WP:289:LEU:HD11	9:WP:363:MET:HB3	1.88	0.56
34:X6:212:PHE:CZ	34:X6:224:GLN:HA	2.41	0.56
35:XD:113:ARG:HH12	35:XD:115:LYS:HD3	1.70	0.56
37:YA:158:HIS:O	37:YA:162:SER:OG	2.24	0.56
31:Z:422:MET:HA	31:Z:422:MET:HE3	1.87	0.56
41:b2:410:PRO:HG2	44:h2:110:LEU:HD21	1.87	0.56
42:e:516:GLN:HA	42:e:530:GLU:HA	1.87	0.56
42:f:231:LYS:HB3	42:f:241:ASP:HB3	1.88	0.56
43:j:200:LEU:HA	43:j:203:ASN:HD22	1.71	0.56
4:j1:129:ILE:HG21	4:j1:273:LEU:HD22	1.87	0.56
43:k:229:LYS:O	43:k:233:GLU:HG2	2.06	0.56
9:AF:320:ARG:NH1	33:X4:237:ILE:HG22	2.21	0.56
9:AJ:242:PHE:HB3	9:AJ:356:ILE:HD13	1.87	0.56
11:B5:272:MET:HE1	11:B5:383:THR:HG23	1.88	0.56
8:BC:8:HIS:ND1	8:BC:13:GLY:O	2.39	0.56
9:BD:247:ASN:O	9:BD:252:LYS:NZ	2.39	0.56
9:BL:358:PRO:HG2	9:BL:361:LEU:HB3	1.88	0.56
8:CC:364:PRO:O	40:a1:94:LYS:NZ	2.38	0.56
8:CE:437:VAL:O	9:CF:391:ARG:NH2	2.36	0.56
9:CF:163:ILE:HD11	9:CF:251:ARG:HD3	1.87	0.56
8:CM:252:LEU:HA	8:CM:255:PHE:CE1	2.40	0.56
9:CP:323:MET:SD	9:CP:323:MET:N	2.74	0.56
9:DD:130:LEU:O	9:DD:162:ARG:NH1	2.33	0.56
9:DJ:198:GLU:HA	9:DJ:264:HIS:HB2	1.88	0.56
9:DN:8:GLN:HE21	9:DN:14:ASN:HA	1.70	0.56
8:DO:68:VAL:HG12	8:DO:93:ILE:HB	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EO:70:LEU:HB3	8:EO:98:ASP:HA	1.88	0.56
8:FC:387:ALA:HA	8:FC:390:ARG:HH21	1.70	0.56
9:FD:285:THR:HB	9:FD:287:PRO:HD2	1.87	0.56
9:FH:68:LEU:HB3	9:FH:96:GLY:HA2	1.88	0.56
8:FI:377:MET:HE3	8:FI:379:SER:HB3	1.88	0.56
8:GA:315:CYS:HB3	8:GA:377:MET:HE1	1.88	0.56
9:GD:54:ALA:HB3	9:GD:58:LYS:HB2	1.88	0.56
9:GJ:267:MET:SD	9:GJ:299:MET:HB3	2.46	0.56
9:GL:299:MET:N	9:GL:299:MET:SD	2.79	0.56
9:HF:268:PRO:HB2	9:HF:300:MET:HE3	1.86	0.56
8:HG:90:GLU:HG2	8:HG:121:ARG:HH22	1.71	0.56
8:HI:348:PRO:HD2	9:HJ:388:MET:HE2	1.87	0.56
9:HJ:48:ASN:O	9:HJ:62:ARG:NH2	2.39	0.56
8:IC:219:ILE:HB	8:IC:222:PRO:HG3	1.87	0.56
8:IE:98:ASP:OD1	8:IE:99:ALA:N	2.39	0.56
9:IH:303:CYS:HB2	9:IH:373:ALA:HB1	1.87	0.56
9:IL:86:ARG:HE	8:JM:283:HIS:HB3	1.69	0.56
9:JH:395:LEU:HD11	9:JH:408:PHE:CE2	2.41	0.56
9:KB:309:ARG:HG3	9:KB:426:GLN:HG3	1.88	0.56
9:KN:267:MET:HE2	9:KN:299:MET:HG3	1.88	0.56
9:KN:300:MET:N	9:KN:300:MET:SD	2.78	0.56
9:KP:181:GLU:CD	9:KP:182:PRO:HD3	2.30	0.56
8:LA:263:PRO:O	43:h:85:LYS:NZ	2.38	0.56
9:LL:165:ASN:HD21	9:LL:250:LEU:HD13	1.70	0.56
9:LN:249:ASP:H	9:LN:252:LYS:HB3	1.70	0.56
8:MC:372:GLN:HG3	23:P:339:LEU:HD22	1.87	0.56
8:MK:258:ASN:H	8:MK:258:ASN:ND2	2.02	0.56
6:N1:27:ARG:HH22	6:N1:28:ASN:HD22	1.54	0.56
9:NB:32:PRO:HA	9:NB:81:PHE:CE1	2.41	0.56
9:ND:310:TYR:N	9:ND:340:TYR:O	2.35	0.56
9:NJ:67:ASP:N	9:NJ:67:ASP:OD1	2.37	0.56
9:NJ:324:LYS:HE2	8:NK:210:TYR:HA	1.88	0.56
9:NL:166:THR:HG23	9:NL:199:THR:HG23	1.88	0.56
9:NL:324:LYS:HE3	8:NM:220:GLU:O	2.05	0.56
9:NL:358:PRO:HG2	9:NL:361:LEU:HD22	1.88	0.56
8:NM:229:ARG:HE	8:NM:367:ASP:H	1.53	0.56
9:OB:205:GLU:HA	9:OB:208:TYR:HB2	1.88	0.56
8:OI:2:ARG:NH2	8:OI:250:VAL:O	2.38	0.56
8:OK:427:ALA:HA	8:OK:430:LYS:HD2	1.88	0.56
8:OO:248:LEU:HD13	8:OO:355:ILE:HD13	1.87	0.56
9:OP:113:VAL:HG11	9:OP:150:LEU:HD23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PG:25:CYS:O	8:PG:30:ILE:N	2.35	0.56
9:PL:180:VAL:HG23	9:PL:184:ASN:HD21	1.71	0.56
9:PL:310:TYR:CD1	9:PL:371:SER:HB2	2.41	0.56
8:PM:245:ASP:HA	8:PM:249:ASN:HD21	1.70	0.56
9:PP:203:ASP:HB3	9:PP:301:ALA:HA	1.87	0.56
28:Q4:174:GLN:OE1	12:S8:118:GLU:HB2	2.06	0.56
9:QB:147:MET:HE3	9:QB:150:LEU:HB3	1.87	0.56
9:QN:46:ARG:NH2	8:QO:73:THR:OG1	2.39	0.56
8:QO:53:PHE:HB3	8:QO:61:HIS:HB3	1.88	0.56
9:QP:35:THR:OG1	9:QP:37:HIS:NE2	2.39	0.56
11:R2:195:THR:O	12:S6:272:GLN:NE2	2.39	0.56
8:RE:50:ASN:O	8:RE:64:ARG:NH1	2.39	0.56
9:RN:406:MET:SD	9:RN:409:THR:OG1	2.63	0.56
12:S3:252:HIS:NE2	12:S6:203:GLU:OE1	2.39	0.56
8:SC:326:LYS:NZ	9:SD:208:TYR:O	2.39	0.56
9:SL:27:GLU:OE1	9:SL:241:ARG:NH1	2.39	0.56
9:SL:54:ALA:HA	9:TL:283:ALA:HB2	1.88	0.56
14:T0:98:ASP:O	14:T1:376:ARG:NH2	2.39	0.56
14:T4:97:LEU:HD21	14:T4:101:ARG:HH21	1.70	0.56
8:TC:297:GLU:O	8:TC:301:GLN:NE2	2.27	0.56
8:TG:50:ASN:O	8:TG:64:ARG:NH1	2.39	0.56
9:TJ:166:THR:HG23	9:TJ:199:THR:HG23	1.87	0.56
8:TK:275:VAL:HA	8:TK:368:LEU:HD11	1.88	0.56
9:TL:267:MET:HB3	9:TL:299:MET:SD	2.46	0.56
30:U1:104:ARG:HB2	30:W4:443:LEU:HD11	1.88	0.56
30:U5:79:LEU:HD23	30:U5:82:LEU:HD23	1.87	0.56
30:U5:213:LYS:HE2	30:U5:217:ARG:HH21	1.71	0.56
30:U6:131:ILE:HD12	30:U7:385:LYS:HD2	1.88	0.56
30:U7:110:ARG:NH1	30:U8:367:GLU:OE1	2.37	0.56
8:UA:360:PRO:O	8:UA:370:LYS:NZ	2.39	0.56
8:UC:51:THR:HG21	8:UC:243:ARG:HG2	1.88	0.56
8:UC:83:TYR:HB3	8:UC:86:LEU:HD23	1.88	0.56
8:UG:223:THR:OG1	8:UG:224:TYR:N	2.39	0.56
9:UH:372:THR:HA	9:UH:422:TYR:HE1	1.71	0.56
8:UM:248:LEU:HD11	8:UM:353:VAL:O	2.06	0.56
30:V4:218:GLU:OE2	30:V4:473:ARG:NH2	2.38	0.56
30:V5:477:PRO:CB	30:V5:482:LEU:HD23	2.36	0.56
30:V8:434:LEU:O	30:V8:438:GLN:HG2	2.06	0.56
30:W2:301:ASN:HA	30:W2:304:ILE:HG22	1.87	0.56
30:W5:428:GLN:N	30:W5:428:GLN:OE1	2.38	0.56
9:WB:213:ARG:HH21	9:WB:297:LYS:HB3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WD:267:MET:N	9:WD:267:MET:SD	2.78	0.56
8:WE:255:PHE:O	8:WE:259:LEU:HG	2.05	0.56
9:WH:165:ASN:HB3	9:WH:198:GLU:HG3	1.87	0.56
9:WN:111:GLU:HG2	9:WN:112:LEU:HD22	1.87	0.56
9:WP:67:ASP:O	9:WP:92:PHE:HA	2.06	0.56
33:X4:151:VAL:HG12	33:X4:153:LEU:H	1.70	0.56
33:X5:118:LYS:HG3	33:X5:120:ASN:H	1.70	0.56
37:YD:229:LYS:NZ	37:YD:235:TYR:O	2.32	0.56
41:b3:155:LEU:HD13	41:b3:224:LEU:HD11	1.88	0.56
42:g:288:GLN:NE2	42:g:289:LEU:O	2.39	0.56
2:2:294:VAL:HG11	9:IJ:224:ASP:HA	1.87	0.56
3:3:371:LYS:CE	9:GD:360:GLY:HA2	2.35	0.56
3:4:446:GLU:OE2	26:P2:103:LYS:NZ	2.37	0.56
1:7:200:THR:HB	29:S:373:ASN:HD22	1.69	0.56
7:A3:26:ARG:HH22	31:X:63:GLY:HA2	1.71	0.56
8:AC:151:SER:HA	8:AC:193:THR:HG21	1.87	0.56
9:AD:83:GLN:OE1	31:W:163:ARG:NH1	2.38	0.56
8:AE:343:PHE:HE2	8:AE:350:GLY:HA3	1.70	0.56
8:AI:292:THR:HG21	8:AI:331:ALA:HB1	1.87	0.56
9:AL:149:THR:O	9:AL:152:ILE:HG22	2.06	0.56
8:AO:220:GLU:HG2	8:AO:221:ARG:HG3	1.88	0.56
11:B1:53:ILE:HD13	11:B2:310:ASN:HD22	1.70	0.56
11:B5:368:LYS:HB3	11:B5:372:ARG:HH12	1.70	0.56
8:BM:271:THR:OG1	8:BM:377:MET:HB3	2.06	0.56
12:C2:337:TRP:HA	12:C2:480:TYR:HE2	1.71	0.56
9:CB:5:VAL:HG22	9:CB:62:ARG:HD2	1.88	0.56
8:DI:172:TYR:HB2	8:DI:203:MET:HB2	1.86	0.56
8:DK:120:ASP:OD2	8:DK:121:ARG:NH2	2.38	0.56
8:DQ:274:PRO:HG3	8:DQ:286:LEU:HD11	1.88	0.56
8:EC:70:LEU:HD23	8:EC:145:THR:HG23	1.88	0.56
9:FD:257:MET:HE3	9:FD:314:ALA:HB2	1.87	0.56
8:FI:2:ARG:HA	8:FI:133:GLN:OE1	2.05	0.56
8:FM:388:TRP:HB3	8:FM:425:LEU:HD11	1.87	0.56
8:FO:191:THR:HG21	8:FO:425:LEU:HD12	1.88	0.56
9:GH:249:ASP:H	9:GH:252:LYS:HB2	1.71	0.56
8:HE:75:VAL:HG12	8:HE:79:ARG:HE	1.70	0.56
9:HJ:1:MET:HE2	8:HK:72:PRO:HG3	1.88	0.56
9:HJ:125:GLU:OE2	9:IJ:291:GLN:NE2	2.33	0.56
8:HK:251:ASP:OD1	8:HK:252:LEU:N	2.38	0.56
8:HM:109:THR:HG23	8:HM:411:GLU:OE2	2.06	0.56
8:HM:328:VAL:O	8:HM:332:ILE:HG12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IF:89:ASN:ND2	9:IF:123:GLU:OE2	2.38	0.56
9:IF:246:LEU:HD21	8:IG:179:THR:HG21	1.87	0.56
9:IJ:249:ASP:H	9:IJ:252:LYS:HB2	1.71	0.56
9:IN:26:ASP:O	9:IN:359:ARG:NH1	2.39	0.56
9:IN:47:ILE:HG12	9:IN:51:TYR:HB2	1.87	0.56
19:J4:74:ARG:HE	19:J4:78:LEU:HD22	1.69	0.56
9:JD:324:LYS:HD2	8:JE:210:TYR:CE1	2.40	0.56
8:JE:345:ASP:N	8:JE:345:ASP:OD1	2.36	0.56
8:JG:200:CYS:SG	8:JG:201:ALA:N	2.78	0.56
9:JJ:161:ASP:OD2	9:JJ:162:ARG:NE	2.34	0.56
8:JQ:90:GLU:HG3	8:JQ:121:ARG:HE	1.71	0.56
17:K:16:TYR:HB2	17:K:39:THR:HG21	1.88	0.56
9:KB:54:ALA:HA	9:LB:283:ALA:HB2	1.88	0.56
8:KC:277:SER:OG	8:KC:278:ALA:N	2.39	0.56
8:KG:53:PHE:HB3	8:KG:61:HIS:HB3	1.88	0.56
8:KK:233:GLN:HB3	8:KK:272:TYR:CE2	2.41	0.56
9:KN:136:THR:HG22	9:KN:167:PHE:HB2	1.87	0.56
9:LD:346:PRO:HD3	8:LE:397:LEU:HD11	1.88	0.56
9:LF:256:ASN:HD22	9:LF:350:LYS:HD3	1.71	0.56
8:LG:388:TRP:HB3	8:LG:425:LEU:HD21	1.87	0.56
9:LJ:436:PHE:HD1	9:LJ:437:GLU:HG3	1.70	0.56
9:LL:45:GLU:OE1	9:LL:46:ARG:NE	2.38	0.56
8:LO:35:GLN:NE2	8:LO:59:GLY:O	2.37	0.56
9:MD:174:LYS:NZ	45:l:5:TYR:O	2.37	0.56
8:MG:171:ILE:HD12	8:MG:206:ASN:OD1	2.05	0.56
8:MM:278:ALA:HB2	23:P:48:GLN:NE2	2.21	0.56
8:NE:188:ILE:O	8:NE:191:THR:OG1	2.24	0.56
8:NM:88:HIS:HB2	8:NM:91:GLN:HG3	1.88	0.56
9:NP:104:GLY:O	9:NP:147:MET:HG3	2.05	0.56
8:OA:90:GLU:OE1	8:OA:121:ARG:NH1	2.39	0.56
8:OG:437:VAL:O	9:OH:391:ARG:NH2	2.36	0.56
9:OH:245:GLN:HB3	8:OI:224:TYR:HE1	1.68	0.56
8:OI:32:PRO:O	8:OI:85:GLN:NE2	2.39	0.56
9:OJ:113:VAL:HG11	9:OJ:150:LEU:HD23	1.88	0.56
9:OL:7:LEU:N	9:OL:134:GLN:O	2.39	0.56
9:ON:45:GLU:OE2	9:ON:46:ARG:NH2	2.39	0.56
23:P:165:GLU:O	23:P:169:GLN:NE2	2.39	0.56
27:P5:134:CYS:SG	27:P5:153:LEU:O	2.64	0.56
8:PC:27:GLU:HA	8:PC:361:THR:HG21	1.87	0.56
9:PD:7:LEU:N	9:PD:134:GLN:O	2.39	0.56
8:PE:276:ILE:HD11	8:PE:286:LEU:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QC:109:THR:O	8:QC:112:LYS:NZ	2.37	0.56
8:QE:320:ARG:HD3	8:QE:360:PRO:HG3	1.86	0.56
9:QH:305:PRO:HB2	9:QH:310:TYR:CE1	2.39	0.56
8:QM:254:GLU:HG2	9:QN:98:GLY:HA2	1.88	0.56
8:QO:188:ILE:O	8:QO:191:THR:OG1	2.23	0.56
8:RE:311:LYS:H	8:RE:382:THR:HG22	1.70	0.56
9:RJ:322:SER:OG	8:RK:222:PRO:O	2.24	0.56
12:S1:391:ALA:HA	12:S1:394:LYS:HG2	1.87	0.56
8:SG:264:ARG:NH1	8:SG:431:ASP:OD2	2.36	0.56
8:SI:2:ARG:HH11	8:SI:242:LEU:HA	1.70	0.56
8:SK:171:ILE:HD13	8:SK:204:VAL:HG23	1.87	0.56
8:SK:289:ALA:O	8:SK:293:ASN:ND2	2.39	0.56
14:T2:360:ARG:NH2	14:T2:371:ASP:OD2	2.37	0.56
8:TC:121:ARG:HA	8:TC:124:LYS:HZ3	1.71	0.56
9:TF:236:VAL:HG13	9:TF:237:THR:HG23	1.88	0.56
9:TN:253:LEU:O	9:TN:257:MET:N	2.38	0.56
8:UA:7:ILE:HD13	8:UA:137:ILE:HG13	1.88	0.56
9:UF:274:THR:HB	9:UF:278:SER:HB2	1.87	0.56
8:UK:213:CYS:HA	8:UK:217:LEU:HD23	1.88	0.56
9:UL:325:GLU:OE1	8:UM:221:ARG:NH1	2.39	0.56
30:V5:316:ARG:NH1	30:V5:319:GLU:OE2	2.39	0.56
30:V7:332:MET:HE3	30:V7:479:THR:HG21	1.88	0.56
9:VB:187:LEU:O	9:VB:191:GLN:NE2	2.39	0.56
9:VH:130:LEU:O	9:VH:162:ARG:NH1	2.38	0.56
30:W2:402:ARG:HH22	30:W2:409:ARG:HA	1.71	0.56
9:WB:72:THR:O	9:WB:75:SER:OG	2.22	0.56
9:WB:403:MET:H	9:WB:403:MET:HE3	1.71	0.56
9:WL:40:SER:HA	48:s:135:LYS:HG3	1.88	0.56
9:WN:337:ASN:HB3	9:WN:340:TYR:HD2	1.71	0.56
35:XA:174:GLU:HA	35:XA:177:LEU:HD12	1.86	0.56
35:XB:96:ASP:OD1	35:XB:146:THR:OG1	2.20	0.56
41:b4:116:ASP:O	41:b4:119:ALA:N	2.39	0.56
2:1:489:HIS:O	2:1:493:MET:HG2	2.06	0.55
2:1:726:ASN:ND2	8:IG:18:ASN:OD1	2.39	0.55
3:3:198:GLU:OE1	9:GJ:362:LYS:NZ	2.32	0.55
3:3:371:LYS:HE2	9:GD:360:GLY:HA2	1.87	0.55
7:A2:201:SER:OG	7:A2:202:GLU:N	2.40	0.55
8:AE:9:VAL:HA	8:AE:68:VAL:HG12	1.88	0.55
8:AG:415:GLU:OE2	35:XD:86:TYR:OH	2.25	0.55
8:AK:220:GLU:OE1	8:AK:220:GLU:N	2.34	0.55
9:AL:272:PRO:HG3	9:AL:364:SER:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AM:4:CYS:HA	8:AM:134:GLY:O	2.06	0.55
9:AN:51:TYR:O	9:AN:62:ARG:NH2	2.39	0.55
9:AP:242:PHE:HB3	9:AP:356:ILE:HD12	1.88	0.55
11:B2:360:GLN:OE1	14:D1:239:GLN:NE2	2.37	0.55
11:B5:337:GLY:O	11:B5:341:GLU:HG2	2.07	0.55
8:BG:215:ARG:NH2	8:BG:299:ALA:O	2.40	0.55
9:BJ:8:GLN:HE21	9:BJ:14:ASN:HA	1.69	0.55
8:BK:93:ILE:HD11	8:BK:121:ARG:HG3	1.88	0.55
8:BM:215:ARG:NH2	8:BM:299:ALA:O	2.39	0.55
14:D2:54:ASP:N	14:D2:54:ASP:OD1	2.37	0.55
9:DF:84:ILE:O	9:ED:280:GLN:NE2	2.39	0.55
9:DJ:257:MET:SD	9:DJ:312:THR:OG1	2.63	0.55
9:ED:345:ILE:HA	8:EE:398:MET:HE1	1.86	0.55
9:EF:322:SER:OG	8:EG:222:PRO:O	2.20	0.55
8:EI:167:LEU:HD23	8:EI:202:PHE:HE2	1.72	0.55
8:FA:68:VAL:HG12	8:FA:93:ILE:HB	1.87	0.55
9:FD:372:THR:HA	9:FD:422:TYR:HE1	1.71	0.55
9:FH:62:ARG:NH1	9:FH:127:CYS:SG	2.79	0.55
9:FH:309:ARG:HG3	9:FH:426:GLN:HG3	1.88	0.55
8:FI:70:LEU:HB2	8:FI:145:THR:HG21	1.88	0.55
9:FL:27:GLU:OE1	9:FL:318:ARG:NH2	2.32	0.55
9:FL:256:ASN:HD21	8:FM:181:VAL:H	1.54	0.55
16:G:71:SER:OG	16:G:73:ARG:NH2	2.38	0.55
8:GA:318:LEU:HB2	8:GA:376:CYS:HB3	1.88	0.55
8:GC:27:GLU:OE2	8:GC:358:GLN:NE2	2.39	0.55
9:GD:150:LEU:HG	9:GD:154:LYS:HE2	1.87	0.55
8:GG:147:SER:OG	8:GG:190:THR:OG1	2.17	0.55
9:GH:376:GLU:HG2	9:GH:380:ARG:HH21	1.71	0.55
9:GJ:1:MET:SD	9:GJ:2:ARG:N	2.79	0.55
8:GK:151:SER:HB3	8:GK:193:THR:HG21	1.87	0.55
8:GK:437:VAL:O	9:GL:391:ARG:NH2	2.30	0.55
8:GO:27:GLU:OE1	8:GO:243:ARG:NH1	2.38	0.55
9:HB:262:ARG:HH21	9:HB:418:LEU:HD12	1.71	0.55
8:HC:139:HIS:O	8:HC:170:ALA:HA	2.05	0.55
9:HD:309:ARG:HG3	9:HD:426:GLN:HG3	1.87	0.55
9:HL:363:MET:HA	9:HL:363:MET:HE3	1.88	0.55
9:ID:278:SER:HA	9:ID:281:TYR:CZ	2.41	0.55
8:IE:311:LYS:H	8:IE:382:THR:HG22	1.71	0.55
8:IG:139:HIS:NE2	8:IG:168:GLU:OE2	2.39	0.55
9:IH:309:ARG:NH1	9:IH:339:SER:O	2.40	0.55
9:IJ:173:PRO:HG2	9:IJ:174:LYS:HD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IO:163:LYS:HG3	8:IO:164:LYS:HD2	1.87	0.55
9:IP:26:ASP:O	9:IP:359:ARG:NH1	2.39	0.55
19:J2:251:PHE:HB2	19:J2:257:ARG:HG2	1.88	0.55
9:JH:200:TYR:HB3	9:JH:268:PRO:HG3	1.87	0.55
8:JO:352:LYS:NZ	9:JP:179:VAL:H	2.03	0.55
20:K1:121:THR:HG21	9:TD:74:ASP:HB3	1.87	0.55
9:KH:45:GLU:OE2	9:KH:46:ARG:NH2	2.40	0.55
9:KH:114:ASP:OD1	9:KH:115:SER:N	2.39	0.55
8:KI:75:VAL:HG13	8:KI:79:ARG:HE	1.71	0.55
8:KM:286:LEU:O	8:KM:373:ARG:NH1	2.38	0.55
9:LB:67:ASP:O	9:LB:92:PHE:HA	2.06	0.55
8:LC:215:ARG:NH2	8:LC:299:ALA:O	2.39	0.55
9:LF:54:ALA:HA	9:MF:283:ALA:HB2	1.86	0.55
22:M3:5:SER:HA	22:M3:20:PRO:HG3	1.88	0.55
9:ML:286:VAL:HG13	9:ML:287:PRO:HD3	1.88	0.55
9:MN:156:ARG:NH1	9:MN:197:ASP:OD1	2.34	0.55
8:MO:33:ASP:OD1	8:MO:34:GLY:N	2.39	0.55
8:MO:276:ILE:HD13	8:MO:281:ALA:HB2	1.86	0.55
9:MP:198:GLU:HA	9:MP:264:HIS:HB2	1.89	0.55
6:N1:27:ARG:HH12	6:N1:28:ASN:HB3	1.70	0.55
8:NC:7:ILE:HB	8:NC:137:ILE:HG13	1.87	0.55
9:ND:31:ASP:OD1	9:ND:35:THR:N	2.39	0.55
8:NG:80:THR:O	8:NG:84:ARG:NH2	2.39	0.55
9:NH:290:THR:HA	9:NH:293:MET:HB3	1.88	0.55
8:NK:287:SER:HA	8:NK:373:ARG:HH22	1.70	0.55
8:NM:107:HIS:HA	8:NM:152:LEU:HD23	1.88	0.55
9:NN:272:PRO:HG3	9:NN:364:SER:HA	1.88	0.55
8:NO:241:SER:OG	8:NO:250:VAL:O	2.23	0.55
9:NP:198:GLU:HB3	9:NP:266:PHE:HE2	1.71	0.55
9:OB:325:GLU:H	8:OC:221:ARG:NH2	2.04	0.55
8:OE:326:LYS:HG3	9:OF:220:PRO:HD2	1.87	0.55
9:OF:328:GLU:O	9:OF:332:ASN:N	2.38	0.55
23:P:187:GLN:NE2	25:V:62:LEU:HD11	2.15	0.55
8:PC:288:VAL:O	8:PC:292:THR:HG22	2.06	0.55
9:QD:322:SER:HA	9:QD:323:MET:HE2	1.87	0.55
9:QF:207:LEU:HG	9:QF:225:LEU:HG	1.87	0.55
9:QF:322:SER:OG	8:QG:222:PRO:O	2.24	0.55
8:QI:123:ARG:NH2	8:QI:160:ASP:OD2	2.39	0.55
8:QO:171:ILE:HG12	50:QO:501:GTP:HN22	1.70	0.55
8:QO:345:ASP:N	8:QO:345:ASP:OD1	2.40	0.55
11:R1:328:GLU:HG3	11:R2:182:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RK:54:SER:O	8:RK:61:HIS:HA	2.06	0.55
8:RK:342:GLN:NE2	8:RK:343:PHE:O	2.39	0.55
9:RP:276:ARG:NH2	9:RP:279:GLN:OE1	2.35	0.55
12:S0:312:GLN:HG2	12:S0:315:ARG:HH21	1.70	0.55
12:S6:139:GLN:HE22	12:S6:276:ASN:HD21	1.54	0.55
12:S8:141:HIS:CE1	12:S8:145:ASN:OD1	2.59	0.55
9:SB:257:MET:HE2	9:SB:314:ALA:HB2	1.88	0.55
8:TA:107:HIS:HA	8:TA:152:LEU:HD23	1.88	0.55
8:TA:286:LEU:O	8:TA:373:ARG:NH1	2.38	0.55
9:TB:54:ALA:HA	9:UB:283:ALA:HB2	1.87	0.55
9:TB:192:LEU:HD21	9:TB:199:THR:HG21	1.88	0.55
9:TB:193:VAL:HA	9:TB:264:HIS:HE2	1.71	0.55
8:TE:292:THR:HG21	8:TE:331:ALA:HB1	1.88	0.55
8:TE:297:GLU:O	8:TE:301:GLN:NE2	2.34	0.55
9:TH:198:GLU:HA	9:TH:264:HIS:HB2	1.88	0.55
9:TJ:173:PRO:HG3	9:TJ:380:ARG:HE	1.70	0.55
25:U:516:MET:HE1	25:U:523:TYR:CD1	2.41	0.55
30:U3:363:LYS:HB3	30:U4:110:ARG:NH2	2.21	0.55
30:U8:257:LYS:HE3	30:U8:296:TRP:HE1	1.71	0.55
8:UG:372:GLN:HG3	39:c:311:MET:HE2	1.87	0.55
9:UH:324:LYS:NZ	8:UI:220:GLU:O	2.40	0.55
8:UK:34:GLY:HA3	8:UK:60:LYS:HE2	1.86	0.55
8:UM:88:HIS:CE1	8:UM:90:GLU:HB3	2.41	0.55
30:V6:198:ARG:HG2	30:V6:201:ARG:HH12	1.70	0.55
8:VK:254:GLU:O	8:VK:258:ASN:ND2	2.37	0.55
8:WC:313:MET:HE2	8:WC:435:VAL:HG11	1.87	0.55
8:WE:70:LEU:HB3	8:WE:98:ASP:HA	1.88	0.55
34:X8:213:ASP:H	34:X8:223:ARG:HD2	1.70	0.55
35:XB:81:LYS:HD3	35:XB:161:ARG:HD2	1.88	0.55
31:Y:737:ASP:N	31:Y:737:ASP:OD1	2.38	0.55
42:f:561:VAL:HG11	42:f:602:ILE:HD13	1.88	0.55
4:j1:119:PRO:HD3	4:j1:177:VAL:HG22	1.88	0.55
2:1:487:TRP:HB2	9:ID:361:LEU:HD13	1.89	0.55
5:8:16:PRO:HG3	5:8:32:ASN:ND2	2.21	0.55
7:A4:395:LYS:HE2	12:C4:362:HIS:CE1	2.42	0.55
8:AC:215:ARG:NH2	8:AC:299:ALA:O	2.39	0.55
9:AL:124:ALA:HB1	9:AL:130:LEU:HD11	1.88	0.55
11:B3:35:SER:O	11:B3:39:ARG:HG3	2.06	0.55
9:BB:30:ILE:HG13	9:BB:51:TYR:HE2	1.70	0.55
9:BB:198:GLU:HB2	9:BB:266:PHE:HE2	1.71	0.55
9:BL:173:PRO:HG3	9:BL:380:ARG:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BO:192:HIS:ND1	8:BO:192:HIS:C	2.64	0.55
9:BP:317:PHE:HB3	9:BP:321:MET:HE1	1.87	0.55
9:CH:63:ALA:O	9:CH:89:ASN:ND2	2.39	0.55
8:CI:211:ASP:OD2	8:CI:215:ARG:NH2	2.39	0.55
14:D1:267:ARG:HD3	14:D1:270:ARG:HH21	1.69	0.55
9:DP:287:PRO:HA	9:DP:329:GLN:HE22	1.71	0.55
8:EK:425:LEU:HA	8:EK:428:LEU:HB2	1.88	0.55
9:EL:51:TYR:HB3	9:EL:59:TYR:HB3	1.86	0.55
9:EL:257:MET:SD	9:EL:314:ALA:HB2	2.45	0.55
8:EM:264:ARG:HH12	8:EM:428:LEU:HD22	1.72	0.55
9:EN:363:MET:HE3	9:EN:364:SER:H	1.71	0.55
8:EO:40:LYS:HE2	8:EO:43:GLY:HA2	1.87	0.55
9:FB:51:TYR:HB3	9:FB:59:TYR:HB3	1.88	0.55
8:FK:399:TYR:O	8:FK:402:ARG:NH1	2.39	0.55
8:GA:329:ASN:HB3	9:GB:175:VAL:HG21	1.88	0.55
8:GC:362:VAL:HG13	8:GC:370:LYS:HE3	1.88	0.55
8:GI:30:ILE:HG13	8:GI:53:PHE:CZ	2.40	0.55
8:HC:302:MET:HE2	8:HC:302:MET:N	2.20	0.55
8:HG:2:ARG:HB3	8:HG:133:GLN:HG3	1.89	0.55
8:HI:402:ARG:HD3	8:HI:405:VAL:HG21	1.88	0.55
9:HJ:238:THR:HG21	9:HJ:318:ARG:HE	1.71	0.55
8:HK:70:LEU:HG	8:HK:98:ASP:HA	1.87	0.55
8:HK:217:LEU:HB3	8:HK:219:ILE:HD12	1.88	0.55
9:HL:60:VAL:HG21	9:HL:86:ARG:HH21	1.71	0.55
9:HN:318:ARG:NH2	9:HN:356:ILE:O	2.40	0.55
9:HP:20:PHE:HB2	9:HP:233:MET:HE3	1.89	0.55
9:IF:124:ALA:HA	9:IF:130:LEU:HD11	1.87	0.55
8:IG:437:VAL:O	9:IH:391:ARG:NH2	2.39	0.55
8:IK:326:LYS:HE2	9:IL:219:THR:HA	1.89	0.55
8:IO:431:ASP:O	8:IO:435:VAL:HG23	2.05	0.55
19:J2:25:VAL:HA	19:J2:32:PRO:HG2	1.87	0.55
8:JC:261:PRO:HA	9:JD:394:PHE:HD1	1.71	0.55
9:JF:86:ARG:NH2	9:KD:281:TYR:O	2.39	0.55
9:JF:198:GLU:HB2	9:JF:266:PHE:CE2	2.42	0.55
8:JK:408:TYR:HB3	8:JK:413:MET:HE2	1.88	0.55
8:KI:71:GLU:HB3	8:KI:98:ASP:HB3	1.88	0.55
8:KO:7:ILE:HD13	8:KO:137:ILE:HG12	1.87	0.55
21:L1:132:LEU:HD21	9:VF:42:LEU:HD22	1.88	0.55
8:LA:33:ASP:OD1	8:LA:34:GLY:N	2.39	0.55
8:LA:154:MET:HA	8:LA:157:LEU:HG	1.89	0.55
8:LK:116:ASP:N	8:LK:116:ASP:OD1	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LL:86:ARG:HH12	9:ML:282:ARG:CZ	2.20	0.55
9:LN:221:THR:HG23	9:LN:223:GLY:H	1.71	0.55
8:MA:437:VAL:O	9:MB:391:ARG:NH2	2.39	0.55
9:MH:42:LEU:HA	9:MH:45:GLU:HG2	1.87	0.55
9:MN:309:ARG:HG3	9:MN:426:GLN:HG3	1.88	0.55
8:NC:9:VAL:HB	8:NC:139:HIS:HB3	1.87	0.55
8:NE:116:ASP:N	8:NE:116:ASP:OD1	2.36	0.55
8:NE:214:ARG:O	8:NE:214:ARG:NE	2.38	0.55
8:NG:8:HIS:CE1	8:NG:21:TRP:HE1	2.19	0.55
9:NL:27:GLU:CA	9:NL:359:ARG:HH12	2.12	0.55
8:NM:56:THR:OG1	8:NM:57:GLY:N	2.39	0.55
9:NP:67:ASP:HA	9:NP:143:THR:HG21	1.87	0.55
8:OA:276:ILE:HD11	8:OA:286:LEU:HD11	1.87	0.55
9:OB:51:TYR:C	9:OB:62:ARG:HH21	2.13	0.55
9:OB:313:VAL:HG12	9:OB:349:VAL:HG13	1.88	0.55
9:OF:344:TRP:H	9:OF:344:TRP:CD1	2.24	0.55
8:OM:200:CYS:HA	8:OM:266:HIS:HB2	1.88	0.55
8:OM:291:ILE:HD13	8:OM:373:ARG:HD3	1.88	0.55
9:ON:309:ARG:HG3	9:ON:426:GLN:HG3	1.86	0.55
9:ON:322:SER:OG	9:ON:323:MET:N	2.39	0.55
8:OO:172:TYR:HB2	8:OO:203:MET:HB2	1.88	0.55
27:P3:126:LEU:HA	27:P3:137:GLU:O	2.06	0.55
27:P4:159:ASP:O	27:P4:162:GLN:NE2	2.31	0.55
17:P8:160:GLU:N	17:P8:160:GLU:OE2	2.39	0.55
8:PE:75:VAL:HG12	8:PE:79:ARG:HE	1.71	0.55
8:PG:9:VAL:HA	8:PG:68:VAL:HG13	1.88	0.55
8:PI:167:LEU:HD11	8:PI:256:GLN:HE21	1.71	0.55
8:PI:311:LYS:HD3	8:PI:344:VAL:HA	1.87	0.55
9:PP:86:ARG:HG2	9:PP:88:ASP:H	1.72	0.55
23:Q:317:LEU:HD12	31:Z:3:LEU:HD13	1.88	0.55
28:Q2:163:ARG:NH1	12:S6:130:ASP:OD1	2.36	0.55
28:Q3:152:THR:HG1	12:S8:437:ARG:HH21	1.55	0.55
8:QG:50:ASN:O	8:QG:64:ARG:NH1	2.39	0.55
9:QL:8:GLN:HE21	9:QL:14:ASN:HA	1.71	0.55
9:QP:299:MET:HE1	9:QP:303:CYS:H	1.71	0.55
8:RC:152:LEU:HD12	8:RC:153:LEU:HD22	1.88	0.55
8:RC:269:LEU:HD22	8:RC:303:VAL:HG21	1.87	0.55
9:RD:112:LEU:HG	9:RD:147:MET:HE1	1.86	0.55
8:RE:360:PRO:O	8:RE:370:LYS:NZ	2.36	0.55
12:S4:482:SER:OG	30:V5:358:GLN:NE2	2.38	0.55
9:SD:376:GLU:HG2	9:SD:380:ARG:HH21	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SM:298:PRO:HA	8:SM:301:GLN:HG2	1.89	0.55
14:T0:234:GLU:OE1	14:T0:234:GLU:N	2.36	0.55
9:TB:1:MET:SD	9:TB:2:ARG:N	2.79	0.55
8:TE:360:PRO:O	8:TE:370:LYS:NZ	2.33	0.55
8:TG:30:ILE:HG13	8:TG:36:MET:HE1	1.87	0.55
8:TG:68:VAL:HG12	8:TG:93:ILE:HB	1.88	0.55
8:TM:123:ARG:NH1	8:TM:161:TYR:OH	2.39	0.55
8:TM:302:MET:SD	8:TM:302:MET:N	2.73	0.55
30:U2:340:ASN:OD1	30:U2:473:ARG:NH2	2.34	0.55
30:U8:225:CYS:O	30:U8:229:MET:HG3	2.06	0.55
9:UD:54:ALA:HA	9:VD:283:ALA:HB2	1.87	0.55
8:UE:169:PHE:CZ	8:UE:231:ILE:HG21	2.41	0.55
8:UG:186:ASN:O	8:UG:190:THR:OG1	2.21	0.55
8:UO:120:ASP:O	8:UO:124:LYS:HG2	2.07	0.55
30:V4:232:LEU:HG	30:V4:324:LEU:HD22	1.88	0.55
30:V4:240:ILE:HG22	30:V4:241:ARG:HH11	1.71	0.55
9:VB:274:THR:HB	9:VB:278:SER:HB2	1.88	0.55
8:VC:41:THR:OG1	42:e:150:GLY:N	2.38	0.55
9:VD:372:THR:HA	9:VD:422:TYR:HE1	1.70	0.55
8:VI:88:HIS:HD2	8:VI:90:GLU:H	1.54	0.55
8:VI:297:GLU:O	8:VI:301:GLN:NE2	2.35	0.55
8:WI:240:ALA:HB1	8:WI:356:ASN:ND2	2.21	0.55
39:a6:107:GLU:HA	39:a6:110:GLU:HB2	1.87	0.55
41:b4:206:LEU:HA	41:b4:209:MET:CE	2.35	0.55
39:d:445:GLU:OE1	39:d:448:ARG:NH1	2.39	0.55
42:e:505:PHE:HA	42:e:521:GLY:HA2	1.87	0.55
42:f:448:CYS:SG	42:f:449:GLN:OE1	2.62	0.55
42:f:458:LYS:NZ	42:f:460:HIS:O	2.29	0.55
42:f:520:SER:HB2	42:f:548:ILE:HB	1.87	0.55
45:l:15:LEU:HB2	45:l:18:TYR:HD2	1.72	0.55
3:3:454:GLN:O	3:3:457:HIS:ND1	2.39	0.55
4:5:110:LYS:HA	4:5:185:ASP:HA	1.88	0.55
4:6:125:ALA:O	4:6:128:ILE:N	2.40	0.55
8:AE:370:LYS:HZ3	25:U:89:HIS:CD2	2.24	0.55
8:AK:9:VAL:HG11	8:AK:150:ALA:HB2	1.89	0.55
11:B0:24:LEU:HD21	11:B1:373:ILE:HG12	1.88	0.55
11:B0:27:ASN:O	11:B0:31:GLN:HG2	2.06	0.55
9:BH:257:MET:HA	9:BH:257:MET:HE3	1.89	0.55
8:BM:258:ASN:HD22	9:BN:179:VAL:HG22	1.72	0.55
9:CP:302:ALA:O	9:CP:380:ARG:NH2	2.39	0.55
8:DE:54:SER:HB3	8:DE:64:ARG:CZ	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DQ:27:GLU:OE1	8:DQ:243:ARG:NH2	2.39	0.55
8:DQ:108:TYR:HA	8:DQ:112:LYS:HE3	1.89	0.55
8:DQ:147:SER:OG	8:DQ:190:THR:OG1	2.20	0.55
9:EJ:273:LEU:O	9:EJ:292:GLN:NE2	2.39	0.55
9:EN:252:LYS:HD3	8:EO:100:ALA:HA	1.88	0.55
8:FA:325:PRO:HG2	9:FB:222:TYR:CD1	2.41	0.55
8:FI:326:LYS:NZ	9:FJ:220:PRO:HD2	2.20	0.55
8:FO:139:HIS:NE2	8:FO:168:GLU:OE2	2.39	0.55
8:FO:297:GLU:O	8:FO:301:GLN:NE2	2.36	0.55
8:GA:377:MET:HE2	8:GA:379:SER:HB3	1.88	0.55
9:GF:330:MET:HA	9:GF:333:VAL:HG12	1.88	0.55
8:GI:98:ASP:OD1	8:GI:99:ALA:N	2.38	0.55
8:GI:320:ARG:HH21	8:GI:360:PRO:HA	1.71	0.55
8:GM:47:ASP:O	8:GM:49:PHE:N	2.39	0.55
17:H:231:VAL:HG22	17:H:242:GLN:NE2	2.21	0.55
9:HH:146:GLY:O	9:HH:149:THR:OG1	2.23	0.55
9:HH:282:ARG:NH2	9:HH:292:GLN:OE1	2.39	0.55
9:HJ:387:ALA:HA	9:HJ:390:ARG:HE	1.72	0.55
9:HL:31:ASP:OD1	9:HL:35:THR:N	2.39	0.55
9:HL:122:LYS:NZ	9:IL:291:GLN:OE1	2.37	0.55
9:IF:223:GLY:HA2	9:IF:226:ASN:HD21	1.71	0.55
9:IH:245:GLN:NE2	8:II:224:TYR:HB2	2.21	0.55
8:IK:264:ARG:NH1	8:IK:431:ASP:OD2	2.39	0.55
9:IL:5:VAL:HG22	9:IL:62:ARG:HD2	1.88	0.55
9:JH:323:MET:SD	8:JI:223:THR:HA	2.46	0.55
9:JL:406:MET:SD	9:NJ:306:ARG:NE	2.79	0.55
8:KG:204:VAL:HG23	8:KG:302:MET:HB3	1.89	0.55
8:KM:124:LYS:NZ	8:LM:297:GLU:OE1	2.39	0.55
9:KN:210:ILE:O	9:KN:214:THR:OG1	2.23	0.55
8:LM:326:LYS:NZ	9:LN:220:PRO:O	2.37	0.55
22:M3:140:PRO:HB3	25:V:159:MET:SD	2.45	0.55
8:MA:195:LEU:HD12	8:MA:196:GLU:HG3	1.87	0.55
9:ML:3:GLU:N	9:ML:3:GLU:OE2	2.39	0.55
9:ML:221:THR:HG23	9:ML:223:GLY:H	1.70	0.55
9:ML:306:ARG:HH11	43:k:52:ALA:HA	1.71	0.55
9:MP:174:LYS:HD3	9:MP:175:VAL:HG23	1.88	0.55
9:NF:8:GLN:HE21	9:NF:14:ASN:HA	1.72	0.55
8:NK:396:ASP:HA	8:NK:422:ARG:HH12	1.71	0.55
9:NL:324:LYS:HD3	8:NM:222:PRO:HD2	1.87	0.55
8:NM:328:VAL:O	8:NM:332:ILE:HG12	2.06	0.55
25:O5:250:ASP:HA	40:a4:159:ARG:CZ	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OG:107:HIS:HA	8:OG:152:LEU:HD23	1.88	0.55
9:OH:372:THR:HA	9:OH:422:TYR:HE1	1.70	0.55
8:OI:116:ASP:N	8:OI:116:ASP:OD1	2.37	0.55
9:OL:130:LEU:O	9:OL:162:ARG:NH1	2.37	0.55
8:OM:151:SER:HA	8:OM:193:THR:HG21	1.88	0.55
9:ON:22:GLU:HG3	9:ON:81:PHE:HB2	1.88	0.55
9:ON:245:GLN:HB3	8:OO:224:TYR:HE2	1.71	0.55
9:PH:8:GLN:HE21	9:PH:14:ASN:HA	1.71	0.55
28:Q4:167:VAL:HG21	12:S8:122:VAL:HG22	1.88	0.55
9:QD:222:TYR:CE1	9:QD:225:LEU:HD22	2.42	0.55
9:QL:61:PRO:O	9:QL:86:ARG:NH2	2.39	0.55
9:QL:207:LEU:HD21	9:QL:225:LEU:HA	1.87	0.55
9:QL:325:GLU:HG2	8:QM:221:ARG:CZ	2.36	0.55
8:QM:386:GLU:O	8:QM:390:ARG:HG2	2.06	0.55
9:QN:58:LYS:HZ3	9:RN:281:TYR:HD1	1.52	0.55
8:QO:107:HIS:HA	8:QO:152:LEU:HD23	1.88	0.55
8:QO:271:THR:HA	8:QO:302:MET:HE1	1.88	0.55
8:QO:385:ALA:HA	8:QO:388:TRP:CZ3	2.36	0.55
11:R0:281:TRP:O	11:R0:285:ASN:ND2	2.39	0.55
8:RC:70:LEU:HB3	8:RC:98:ASP:HA	1.89	0.55
8:RC:269:LEU:N	8:RC:379:SER:O	2.37	0.55
8:RI:9:VAL:HB	8:RI:139:HIS:HB3	1.88	0.55
8:RI:295:CYS:HB3	8:RI:377:MET:SD	2.46	0.55
9:RJ:146:GLY:O	9:RJ:149:THR:OG1	2.24	0.55
9:RN:207:LEU:HA	9:RN:210:ILE:HG12	1.89	0.55
8:RO:264:ARG:NH1	8:RO:431:ASP:OD2	2.39	0.55
8:SA:51:THR:HG21	8:SA:243:ARG:HG2	1.89	0.55
8:SA:298:PRO:HA	8:SA:301:GLN:HG2	1.89	0.55
9:SD:274:THR:HB	9:SD:278:SER:HB2	1.88	0.55
9:SF:383:GLU:OE1	9:SF:383:GLU:N	2.37	0.55
25:T:267:TYR:CD1	25:T:294:ARG:HD3	2.41	0.55
14:T4:78:ARG:NH1	14:T5:332:GLN:HA	2.22	0.55
8:TG:79:ARG:HH12	8:TG:94:THR:HG21	1.72	0.55
9:TH:192:LEU:HD21	9:TH:199:THR:HG21	1.87	0.55
8:TK:56:THR:HA	8:UK:285:GLN:HB2	1.89	0.55
8:TK:360:PRO:O	8:TK:370:LYS:NZ	2.36	0.55
9:TL:166:THR:HG23	9:TL:199:THR:HG23	1.88	0.55
25:U:415:ASN:HA	25:U:418:LYS:HZ2	1.71	0.55
30:U4:270:LEU:O	30:U4:271:ARG:NH1	2.39	0.55
8:UA:49:PHE:HB2	8:UA:53:PHE:HD2	1.71	0.55
8:UA:149:PHE:HA	8:UA:152:LEU:HG	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UB:248:ALA:HA	9:UB:252:LYS:HG3	1.88	0.55
8:UC:6:SER:HB3	8:UC:8:HIS:CE1	2.42	0.55
9:UD:31:ASP:OD1	9:UD:35:THR:N	2.39	0.55
8:UG:269:LEU:HD22	8:UG:303:VAL:HG21	1.88	0.55
9:UH:293:MET:HE1	9:UH:367:PHE:HB2	1.89	0.55
9:UJ:101:TRP:HB2	9:UJ:184:ASN:HB3	1.89	0.55
8:UK:68:VAL:HG22	8:UK:93:ILE:HB	1.88	0.55
30:V7:366:GLN:HB2	30:V7:367:GLU:OE2	2.05	0.55
8:VK:107:HIS:HA	8:VK:152:LEU:HD23	1.89	0.55
8:VM:288:VAL:O	8:VM:292:THR:HG22	2.07	0.55
30:W5:148:ASP:OD2	30:W5:151:PHE:N	2.38	0.55
30:W7:380:ARG:NH1	31:Z:588:SER:O	2.38	0.55
8:WC:217:LEU:HD21	8:WC:367:ASP:HB3	1.88	0.55
9:WL:207:LEU:HB3	9:WL:225:LEU:HG	1.88	0.55
31:X:58:SER:HB3	31:X:148:THR:HG23	1.88	0.55
35:XB:69:LEU:HB3	35:XB:71:ILE:HD12	1.88	0.55
35:XC:87:PHE:H	35:XC:107:ASN:HD21	1.53	0.55
35:XE:96:ASP:OD1	35:XE:146:THR:OG1	2.24	0.55
35:XF:170:ARG:HH12	35:XF:172:TYR:HA	1.71	0.55
41:b1:350:MET:HE1	41:b1:447:LEU:HA	1.87	0.55
41:b5:177:GLN:NE2	41:b5:480:LEU:O	2.38	0.55
42:f:314:ILE:HG22	42:f:327:ILE:HD11	1.89	0.55
42:f:335:VAL:HG23	42:f:609:GLY:HA2	1.87	0.55
44:h2:105:VAL:HG23	44:h2:108:LYS:HD3	1.88	0.55
4:j1:23:SER:HB3	4:j1:50:VAL:HG21	1.87	0.55
47:o:138:CYS:HA	47:o:141:HIS:CE1	2.40	0.55
3:3:363:LEU:HD13	49:y:84:VAL:HG12	1.88	0.55
7:A2:138:LYS:O	7:A2:142:ILE:HG12	2.06	0.55
8:AA:33:ASP:HA	8:AA:85:GLN:HE21	1.72	0.55
9:AH:314:ALA:HB3	9:AH:368:ILE:HB	1.89	0.55
9:AL:246:LEU:HD21	8:AM:179:THR:HG21	1.89	0.55
9:AN:117:LEU:HA	9:AN:120:VAL:HG12	1.87	0.55
8:AO:7:ILE:HD13	8:AO:66:VAL:HB	1.88	0.55
11:B3:32:ARG:HH12	11:B4:285:ASN:C	2.13	0.55
11:B4:202:LYS:HD3	14:D4:212:GLU:OE2	2.06	0.55
8:BC:437:VAL:O	9:BD:391:ARG:NH2	2.35	0.55
8:BG:113:GLU:OE2	8:BG:113:GLU:N	2.34	0.55
9:BH:174:LYS:HE3	9:BH:205:GLU:HB2	1.88	0.55
10:C:339:GLU:OE2	10:C:343:ARG:NH1	2.35	0.55
12:C4:337:TRP:HD1	12:C4:480:TYR:HD1	1.53	0.55
9:CB:323:MET:H	9:CB:323:MET:CE	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:293:MET:HE2	9:CD:367:PHE:HB3	1.87	0.55
9:CH:180:VAL:O	9:CH:184:ASN:ND2	2.40	0.55
9:CL:31:ASP:OD1	40:a3:49:TYR:OH	2.24	0.55
8:CO:133:GLN:OE1	8:CO:252:LEU:HD12	2.06	0.55
8:CQ:147:SER:OG	8:CQ:190:THR:OG1	2.22	0.55
14:D2:188:GLU:HG3	12:S6:289:ARG:HH21	1.71	0.55
14:D4:54:ASP:HA	14:D4:57:PHE:CD1	2.42	0.55
9:DL:245:GLN:O	8:DM:11:GLN:NE2	2.39	0.55
9:DN:164:MET:HE2	9:DN:164:MET:HA	1.88	0.55
8:EA:346:TRP:CD1	9:EB:388:MET:HE1	2.42	0.55
8:EC:117:LEU:H	8:EC:117:LEU:HD23	1.71	0.55
8:FA:269:LEU:HD21	8:FA:301:GLN:HB3	1.89	0.55
8:FE:132:LEU:O	8:FE:164:LYS:NZ	2.37	0.55
9:FF:315:ALA:HB3	9:FF:351:THR:HG22	1.88	0.55
8:FK:211:ASP:N	8:FK:211:ASP:OD1	2.38	0.55
8:FO:339:ARG:O	8:FO:339:ARG:NH1	2.32	0.55
8:GC:116:ASP:OD1	8:GC:116:ASP:N	2.39	0.55
8:GG:194:THR:O	8:GG:266:HIS:NE2	2.38	0.55
8:GI:350:GLY:HA2	9:GJ:179:VAL:HG13	1.87	0.55
8:GK:276:ILE:HD11	8:GK:286:LEU:HD11	1.88	0.55
8:GO:188:ILE:O	8:GO:191:THR:OG1	2.23	0.55
9:HB:118:ASP:OD1	9:HB:121:ARG:NH2	2.35	0.55
9:HF:8:GLN:HE21	9:HF:14:ASN:HA	1.71	0.55
9:HN:245:GLN:NE2	8:HO:224:TYR:H	2.04	0.55
8:HO:114:ILE:HD11	36:Y1:43:PRO:HG2	1.87	0.55
8:HO:324:VAL:HG13	8:HO:327:ASP:H	1.70	0.55
8:IE:133:GLN:HG2	8:IE:252:LEU:HD23	1.88	0.55
8:II:154:MET:HE1	8:II:166:LYS:HD3	1.88	0.55
9:IJ:330:MET:SD	9:IJ:349:VAL:HB	2.47	0.55
8:IM:151:SER:HA	8:IM:193:THR:HG21	1.88	0.55
8:IM:183:GLU:HA	8:IM:186:ASN:ND2	2.22	0.55
8:IO:213:CYS:SG	8:IO:222:PRO:HG2	2.46	0.55
8:IO:252:LEU:HA	8:IO:255:PHE:HE1	1.67	0.55
9:IP:187:LEU:O	9:IP:191:GLN:NE2	2.40	0.55
19:J1:188:GLN:HA	19:J1:191:TRP:NE1	2.21	0.55
9:JD:313:VAL:HG13	9:JD:349:VAL:HA	1.88	0.55
8:JI:5:ILE:HD13	8:JI:64:ARG:HB3	1.89	0.55
9:JL:282:ARG:NH2	9:JL:292:GLN:OE1	2.38	0.55
20:K1:29:GLU:O	20:K1:33:GLN:HB2	2.05	0.55
9:KD:12:CYS:O	9:KD:16:ILE:HG13	2.07	0.55
8:KI:53:PHE:HB3	8:KI:61:HIS:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KO:262:TYR:OH	9:KP:391:ARG:O	2.23	0.55
21:L1:74:LYS:HD3	21:L1:81:ARG:H	1.72	0.55
9:LB:13:GLY:HA2	9:LB:136:THR:HG22	1.88	0.55
8:LE:53:PHE:HB3	8:LE:61:HIS:HB3	1.89	0.55
9:LF:295:ASP:OD2	9:LF:297:LYS:NZ	2.39	0.55
8:LG:2:ARG:HB3	8:LG:242:LEU:HD23	1.88	0.55
9:LH:149:THR:HB	9:LH:191:GLN:HG2	1.88	0.55
8:MC:320:ARG:HD3	8:MC:360:PRO:HG3	1.87	0.55
8:MI:265:ILE:HD11	8:MI:435:VAL:HG21	1.89	0.55
9:ML:314:ALA:HB3	9:ML:368:ILE:HB	1.88	0.55
8:MO:249:ASN:OD1	9:MP:11:GLN:NE2	2.39	0.55
9:NJ:238:THR:HG21	9:NJ:318:ARG:HD2	1.88	0.55
8:NO:116:ASP:N	8:NO:116:ASP:OD1	2.38	0.55
8:OC:141:PHE:HE2	8:OC:203:MET:HG3	1.72	0.55
9:OF:271:ALA:HB1	9:OF:289:LEU:HD22	1.86	0.55
9:OJ:322:SER:HB3	9:OJ:325:GLU:HG2	1.89	0.55
27:P5:119:ALA:HA	27:P5:124:TYR:CD1	2.41	0.55
27:P6:141:GLN:HE22	27:P6:148:LYS:HG2	1.71	0.55
8:PC:245:ASP:HA	8:PC:249:ASN:HD21	1.70	0.55
9:PD:289:LEU:O	9:PD:293:MET:N	2.38	0.55
8:PG:311:LYS:NZ	8:PG:343:PHE:O	2.39	0.55
8:PG:312:TYR:HE1	8:PG:379:SER:HB2	1.70	0.55
9:PH:7:LEU:HB3	9:PH:135:LEU:HD13	1.87	0.55
8:PK:121:ARG:HE	8:PK:124:LYS:HD3	1.71	0.55
9:PL:58:LYS:NZ	9:PL:59:TYR:O	2.35	0.55
8:QO:31:GLN:HG3	8:QO:33:ASP:OD1	2.05	0.55
8:RG:338:LYS:HE2	8:RG:340:THR:HB	1.87	0.55
8:RO:138:PHE:HD1	8:RO:169:PHE:HB3	1.71	0.55
12:S0:188:THR:OG1	12:S0:230:GLN:NE2	2.38	0.55
12:S2:453:ALA:HB1	12:S8:405:ARG:HH12	1.70	0.55
12:S3:87:ARG:NH2	12:S5:253:GLU:OE1	2.34	0.55
12:S8:52:PRO:HG2	12:S8:56:TYR:OH	2.05	0.55
8:SG:245:ASP:HA	8:SG:249:ASN:HD21	1.71	0.55
9:SL:5:VAL:HB	9:SL:133:PHE:HD1	1.72	0.55
9:SN:257:MET:HG2	9:SN:266:PHE:HZ	1.70	0.55
8:TA:35:GLN:NE2	8:TA:58:ALA:O	2.35	0.55
9:TB:55:THR:HB	9:UB:283:ALA:HA	1.88	0.55
9:TH:398:TYR:HB3	9:TH:403:MET:HE2	1.86	0.55
25:U:82:LEU:H	25:U:82:LEU:HD23	1.72	0.55
30:U6:148:ASP:HA	30:U6:151:PHE:HB3	1.88	0.55
9:UJ:3:GLU:HG3	9:UJ:127:CYS:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V0:186:CYS:O	30:V0:189:GLN:NE2	2.39	0.55
30:V2:391:MET:HB3	30:V2:395:MET:SD	2.46	0.55
8:VE:274:PRO:HB2	8:VE:276:ILE:HD12	1.89	0.55
9:VH:26:ASP:O	9:VH:359:ARG:NH1	2.38	0.55
8:VM:188:ILE:O	8:VM:191:THR:OG1	2.18	0.55
8:VO:276:ILE:HD11	8:VO:280:LYS:HD3	1.88	0.55
9:WH:113:VAL:HG11	9:WH:150:LEU:HD23	1.88	0.55
8:WK:188:ILE:O	8:WK:191:THR:OG1	2.23	0.55
8:WM:132:LEU:O	8:WM:164:LYS:NZ	2.38	0.55
8:WO:2:ARG:HB3	8:WO:242:LEU:HD23	1.89	0.55
8:WO:217:LEU:HG	8:WO:219:ILE:HG13	1.87	0.55
9:WP:4:ILE:CG2	9:WP:134:GLN:HG2	2.37	0.55
31:X:388:ARG:HH22	31:X:390:TYR:HA	1.71	0.55
37:YG:218:ARG:NH2	37:YG:238:CYS:SG	2.79	0.55
42:f:213:MET:HE3	42:f:220:PHE:HB3	1.88	0.55
44:h3:43:PRO:HB2	44:h3:45:PHE:CE1	2.41	0.55
46:i3:1353:ASP:OD2	46:i3:1357:THR:OG1	2.24	0.55
46:i4:1375:SER:HB3	46:i4:1378:GLU:HG3	1.88	0.55
47:p:198:GLU:OE2	47:p:201:ARG:NH1	2.39	0.55
49:y:59:TYR:CD1	49:y:106:LYS:HG3	2.41	0.55
1:0:96:MET:N	1:0:96:MET:SD	2.80	0.55
2:2:276:ASP:N	2:2:276:ASP:OD1	2.39	0.55
9:AL:282:ARG:NH2	9:AL:292:GLN:OE1	2.40	0.55
9:BB:211:CYS:O	9:BB:217:LEU:N	2.39	0.55
8:BC:151:SER:HA	8:BC:193:THR:HG21	1.88	0.55
8:BC:215:ARG:NH1	8:BC:216:ASN:OD1	2.39	0.55
9:BD:252:LYS:HD3	8:BE:100:ALA:HA	1.89	0.55
8:BG:181:VAL:HG13	8:BG:404:PHE:HE1	1.71	0.55
9:BJ:32:PRO:HD3	9:BJ:81:PHE:HE1	1.72	0.55
9:BL:31:ASP:OD1	9:BL:35:THR:N	2.40	0.55
8:BM:84:ARG:NH1	8:BM:85:GLN:OE1	2.40	0.55
12:C3:270:LYS:HD2	12:C3:270:LYS:C	2.31	0.55
9:CF:183:TYR:OH	9:CF:393:ALA:O	2.19	0.55
9:CL:309:ARG:NH1	9:CL:339:SER:O	2.40	0.55
8:CM:277:SER:OG	8:CM:278:ALA:N	2.38	0.55
9:DB:8:GLN:HB3	9:DB:65:LEU:HA	1.89	0.55
8:DC:68:VAL:HG12	8:DC:93:ILE:HB	1.87	0.55
9:DL:8:GLN:HB3	9:DL:65:LEU:HA	1.89	0.55
9:EJ:70:PRO:HA	9:EJ:73:MET:HE1	1.89	0.55
9:EJ:218:THR:HG23	9:EJ:219:THR:HG23	1.87	0.55
9:FB:5:VAL:HG22	9:FB:62:ARG:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FC:205:ASP:OD1	8:FC:208:ALA:N	2.37	0.55
8:FC:211:ASP:HA	8:FC:214:ARG:HD2	1.89	0.55
9:FH:8:GLN:HE21	9:FH:14:ASN:HA	1.71	0.55
8:FM:139:HIS:NE2	8:FM:168:GLU:OE1	2.39	0.55
8:FM:271:THR:HB	8:FM:377:MET:HB3	1.88	0.55
9:GF:330:MET:HE2	9:GF:351:THR:HG21	1.89	0.55
9:GJ:48:ASN:O	9:GJ:62:ARG:NH2	2.38	0.55
8:HC:161:TYR:O	8:HC:166:LYS:NZ	2.39	0.55
9:HL:309:ARG:HG3	9:HL:426:GLN:HG3	1.87	0.55
8:IE:22:GLU:HG2	8:IE:83:TYR:HE1	1.72	0.55
8:IE:88:HIS:O	8:IE:91:GLN:NE2	2.39	0.55
9:IJ:123:GLU:N	9:IJ:123:GLU:OE2	2.39	0.55
9:IN:130:LEU:HD13	9:IN:133:PHE:HE2	1.71	0.55
8:IO:315:CYS:HB3	8:IO:317:MET:HE3	1.87	0.55
9:IP:78:SER:HB2	4:j1:63:ARG:NH1	2.22	0.55
9:JB:8:GLN:NE2	9:JB:136:THR:OG1	2.39	0.55
8:JI:258:ASN:ND2	8:JI:352:LYS:HE3	2.21	0.55
9:JL:50:TYR:CE1	9:JL:241:ARG:HD3	2.41	0.55
9:JN:256:ASN:OD1	8:JO:181:VAL:HG22	2.06	0.55
9:KD:125:GLU:OE2	9:KD:159:TYR:OH	2.22	0.55
8:KE:269:LEU:HD21	8:KE:301:GLN:HG2	1.87	0.55
9:KL:427:ASP:OD1	9:KL:427:ASP:N	2.35	0.55
8:KM:225:THR:HA	8:KM:228:ASN:HB2	1.89	0.55
9:LB:115:SER:O	9:LB:119:VAL:HG23	2.06	0.55
9:LF:51:TYR:O	9:LF:62:ARG:NH2	2.39	0.55
9:LF:273:LEU:H	9:LF:292:GLN:HE22	1.53	0.55
9:LN:253:LEU:O	9:LN:257:MET:HB2	2.07	0.55
9:LN:265:PHE:HB2	9:LN:374:ILE:HD12	1.87	0.55
8:LO:70:LEU:HB3	8:LO:98:ASP:HA	1.89	0.55
17:M:217:ALA:O	17:M:237:ARG:NH1	2.39	0.55
9:MB:8:GLN:OE1	9:MB:136:THR:OG1	2.25	0.55
9:MF:103:LYS:HA	9:MF:107:THR:HG22	1.89	0.55
9:MH:285:THR:HB	9:MH:287:PRO:HD2	1.88	0.55
8:NA:316:CYS:HB3	8:NA:378:LEU:HB2	1.88	0.55
8:NC:245:ASP:HA	8:NC:249:ASN:HD21	1.70	0.55
9:ND:309:ARG:HG3	9:ND:426:GLN:HG3	1.88	0.55
9:NH:189:VAL:HA	9:NH:192:LEU:HB2	1.87	0.55
9:NJ:285:THR:HB	9:NJ:287:PRO:HD2	1.89	0.55
8:NK:316:CYS:HB3	8:NK:378:LEU:HB2	1.89	0.55
8:NK:318:LEU:HB2	8:NK:376:CYS:HB3	1.87	0.55
9:NN:131:GLN:HG3	9:NN:163:ILE:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O8:43:LEU:HD12	27:P3:146:VAL:CG1	2.36	0.55
8:OA:9:VAL:HG11	8:OA:150:ALA:HB2	1.89	0.55
9:OB:63:ALA:HB3	9:OB:85:PHE:HE1	1.72	0.55
9:OB:87:PRO:HD3	9:PB:281:TYR:HD2	1.69	0.55
8:OI:395:PHE:HB3	8:OI:422:ARG:HH22	1.70	0.55
9:OJ:322:SER:OG	9:OJ:323:MET:N	2.39	0.55
9:OL:20:PHE:CE1	9:OL:230:SER:HA	2.41	0.55
8:OO:137:ILE:HG13	8:OO:168:GLU:HA	1.89	0.55
9:OP:167:PHE:CD2	9:OP:202:ILE:HD11	2.41	0.55
27:P6:153:LEU:HG	27:P6:154:PRO:HD2	1.89	0.55
8:PE:338:LYS:HE2	8:PE:340:THR:HB	1.88	0.55
8:PG:132:LEU:HD21	8:PG:135:PHE:HE1	1.71	0.55
8:PG:358:GLN:NE2	8:PG:359:PRO:O	2.39	0.55
28:Q4:143:GLN:HE22	12:S9:444:THR:HA	1.70	0.55
8:QE:102:ASN:HB3	8:QE:105:ARG:HB2	1.89	0.55
8:QI:209:ILE:HG12	8:QI:227:LEU:HD22	1.87	0.55
9:QJ:68:LEU:HG	9:QJ:96:GLY:HA2	1.88	0.55
8:QK:116:ASP:N	8:QK:116:ASP:OD1	2.38	0.55
9:QL:330:MET:HB3	9:QL:349:VAL:HG11	1.89	0.55
11:R4:249:GLN:O	11:R4:253:GLU:HG3	2.07	0.55
8:RI:280:LYS:HD2	8:RI:283:HIS:NE2	2.21	0.55
8:RK:36:MET:HE2	8:RK:36:MET:HA	1.88	0.55
9:RL:50:TYR:HH	9:RL:237:THR:HG1	1.52	0.55
9:RL:68:LEU:HB3	9:RL:96:GLY:HA2	1.89	0.55
12:S6:465:THR:HA	12:S6:468:ILE:HG22	1.88	0.55
9:SL:60:VAL:HG21	9:SL:86:ARG:HH21	1.70	0.55
9:TD:309:ARG:HG3	9:TD:426:GLN:HG3	1.89	0.55
9:TL:6:HIS:CD2	9:TL:21:TRP:HZ2	2.25	0.55
9:TN:114:ASP:N	9:TN:114:ASP:OD1	2.39	0.55
30:U3:73:ARG:HH21	30:U7:310:MET:HE2	1.70	0.55
30:U8:369:PHE:HD1	30:W0:152:TRP:HE1	1.53	0.55
9:UF:285:THR:HB	9:UF:287:PRO:HD2	1.88	0.55
8:UG:264:ARG:NH1	8:UG:431:ASP:OD2	2.39	0.55
9:UJ:7:LEU:HD12	9:UJ:8:GLN:H	1.72	0.55
9:UN:170:VAL:HG11	9:UN:377:LEU:HD21	1.88	0.55
30:V1:144:GLN:NE2	30:V1:147:SER:OG	2.40	0.55
30:V3:130:LEU:O	30:V3:134:MET:HB2	2.07	0.55
30:V9:439:ASP:HA	30:V9:442:GLN:OE1	2.07	0.55
8:VA:102:ASN:HB3	8:VA:105:ARG:HB2	1.88	0.55
8:VC:56:THR:HA	8:WC:285:GLN:HB3	1.88	0.55
9:VJ:45:GLU:OE2	9:VJ:46:ARG:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VL:322:SER:O	8:VM:221:ARG:NH2	2.39	0.55
9:WF:54:ALA:HB3	9:WF:58:LYS:HB2	1.89	0.55
8:WG:437:VAL:O	9:WH:391:ARG:NH2	2.33	0.55
8:WI:240:ALA:HB1	8:WI:356:ASN:HD22	1.71	0.55
35:XG:13:ILE:HD11	35:XG:71:ILE:HD11	1.88	0.55
36:Y0:22:LEU:HD21	36:Y1:245:TYR:CZ	2.42	0.55
41:b3:239:GLN:HB2	44:h2:66:PHE:HZ	1.72	0.55
42:f:416:HIS:ND1	42:f:438:GLU:OE2	2.39	0.55
46:i4:1333:ARG:O	46:i4:1337:GLN:HG3	2.07	0.55
2:1:488:LEU:O	2:1:492:GLN:HG2	2.07	0.55
9:AF:166:THR:HG23	9:AF:199:THR:HG23	1.88	0.55
9:AH:344:TRP:H	9:AH:344:TRP:CD1	2.24	0.55
8:AO:402:ARG:NH1	8:AO:415:GLU:OE2	2.38	0.55
9:AP:10:GLY:O	9:AP:14:ASN:ND2	2.40	0.55
9:BH:31:ASP:OD1	9:BH:35:THR:N	2.36	0.55
9:CB:323:MET:O	9:CB:327:ASP:N	2.26	0.55
8:CE:3:GLU:OE1	8:CE:64:ARG:HD3	2.05	0.55
14:D2:142:LEU:HD11	14:D2:191:LYS:HG3	1.88	0.55
14:D3:201:ILE:HG22	14:D3:205:ARG:HH12	1.72	0.55
14:D4:363:ARG:HH21	14:D4:368:LEU:HD12	1.71	0.55
9:DB:296:ALA:HA	9:DB:299:MET:HE3	1.89	0.55
8:DG:188:ILE:O	8:DG:191:THR:OG1	2.25	0.55
8:EE:172:TYR:HB2	8:EE:203:MET:HB3	1.89	0.55
8:EG:320:ARG:HD3	8:EG:360:PRO:HG3	1.88	0.55
9:EH:130:LEU:O	9:EH:162:ARG:NH1	2.39	0.55
9:EH:362:LYS:HG3	9:EH:363:MET:HG2	1.89	0.55
8:EI:437:VAL:O	9:EJ:391:ARG:NH2	2.39	0.55
8:EK:91:GLN:HA	8:EK:121:ARG:HH12	1.72	0.55
8:EK:345:ASP:OD1	8:EK:345:ASP:N	2.39	0.55
9:EL:118:ASP:OD1	9:EL:121:ARG:NH2	2.39	0.55
8:EO:56:THR:HA	8:FO:285:GLN:HB2	1.89	0.55
9:FF:309:ARG:HG3	9:FF:426:GLN:HG3	1.89	0.55
8:FG:147:SER:HG	8:FG:190:THR:HG1	1.49	0.55
8:FI:102:ASN:HD22	8:FI:105:ARG:HG3	1.70	0.55
8:FM:264:ARG:NH1	8:FM:431:ASP:OD2	2.38	0.55
8:FM:302:MET:HE2	8:FM:302:MET:N	2.22	0.55
9:GD:146:GLY:O	9:GD:149:THR:OG1	2.25	0.55
8:GG:68:VAL:HG12	8:GG:93:ILE:HB	1.89	0.55
9:GJ:271:ALA:HB1	9:GJ:289:LEU:HD22	1.89	0.55
8:GK:345:ASP:N	8:GK:345:ASP:OD1	2.37	0.55
9:GN:1:MET:CE	9:GN:2:ARG:H	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HA:101:ASN:HA	8:HA:144:GLY:H	1.72	0.55
9:HB:130:LEU:O	9:HB:162:ARG:NH2	2.37	0.55
8:HG:214:ARG:NH1	49:y:143:ASP:O	2.40	0.55
8:HG:271:THR:HB	8:HG:377:MET:HB3	1.88	0.55
8:HK:70:LEU:HA	8:HK:95:GLY:HA3	1.89	0.55
8:HO:145:THR:OG1	50:HO:501:GTP:O1B	2.18	0.55
8:HO:353:VAL:HB	9:HP:177:ASP:OD1	2.06	0.55
9:HP:274:THR:HB	9:HP:278:SER:HB2	1.89	0.55
9:ID:245:GLN:O	8:IE:11:GLN:NE2	2.40	0.55
9:IH:324:LYS:NZ	8:II:222:PRO:O	2.39	0.55
9:IH:334:GLN:HE22	9:IH:348:ASN:H	1.55	0.55
8:IK:38:SER:OG	8:IK:39:ASP:N	2.39	0.55
9:IL:153:SER:HA	9:IL:195:ASN:HD22	1.72	0.55
9:IL:182:PRO:HG3	9:IL:384:GLN:HG3	1.88	0.55
9:IP:78:SER:HB2	4:j1:63:ARG:HH12	1.71	0.55
19:J3:54:ARG:NH2	9:NF:36:TYR:OH	2.39	0.55
19:J4:54:ARG:HG3	19:J4:57:MET:SD	2.46	0.55
19:J5:74:ARG:HE	19:J5:78:LEU:HD22	1.72	0.55
19:J5:83:PHE:O	8:OO:370:LYS:NZ	2.39	0.55
19:J5:116:LEU:HD22	19:J5:150:ASN:HA	1.88	0.55
9:JH:403:MET:SD	9:JH:403:MET:N	2.74	0.55
9:JN:245:GLN:NE2	9:JN:323:MET:SD	2.80	0.55
9:KF:337:ASN:HB3	9:KF:340:TYR:HD2	1.70	0.55
8:KG:98:ASP:OD1	8:KG:98:ASP:N	2.37	0.55
9:KL:379:LYS:HZ1	9:KL:419:VAL:HB	1.72	0.55
8:KM:264:ARG:NH1	8:KM:431:ASP:OD1	2.39	0.55
9:KN:330:MET:HA	9:KN:333:VAL:HG12	1.89	0.55
8:LE:91:GLN:HE22	8:LE:125:LEU:HG	1.70	0.55
8:LK:96:LYS:NZ	43:j:131:GLY:O	2.30	0.55
9:LL:24:ILE:HA	9:LL:27:GLU:HG3	1.88	0.55
8:LM:116:ASP:N	8:LM:116:ASP:OD1	2.39	0.55
8:MA:7:ILE:HD12	8:MA:137:ILE:HG12	1.88	0.55
8:MI:362:VAL:HG22	8:MI:370:LYS:HD3	1.89	0.55
17:N:213:ILE:HA	17:N:216:LYS:HB3	1.88	0.55
9:ND:83:GLN:O	9:OD:281:TYR:OH	2.19	0.55
8:NO:270:ALA:HA	8:NO:377:MET:O	2.06	0.55
24:O3:127:THR:OG1	24:O3:130:ASP:OD2	2.18	0.55
9:OD:309:ARG:NH2	9:OD:339:SER:O	2.40	0.55
8:OG:124:LYS:HE2	8:OG:128:LEU:HD21	1.89	0.55
8:OO:324:VAL:O	8:OO:328:VAL:HG23	2.06	0.55
26:P2:99:ILE:HD12	26:P2:101:TRP:HE1	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PC:265:ILE:HG22	8:PC:380:ASN:HD21	1.70	0.55
8:PK:245:ASP:HA	8:PK:249:ASN:HD21	1.69	0.55
8:PO:30:ILE:HG21	8:PO:53:PHE:CE2	2.41	0.55
8:PO:88:HIS:HD2	8:PO:90:GLU:HB3	1.71	0.55
8:QE:16:ILE:HD11	8:QE:138:PHE:HB3	1.89	0.55
8:QE:252:LEU:HA	8:QE:255:PHE:CE2	2.41	0.55
9:QJ:218:THR:HG23	9:QJ:219:THR:HG23	1.88	0.55
9:QL:156:ARG:NH1	9:QL:164:MET:SD	2.72	0.55
9:QN:8:GLN:HE21	9:QN:14:ASN:HA	1.72	0.55
8:RE:70:LEU:HB3	8:RE:98:ASP:HA	1.89	0.55
8:RG:53:PHE:HB3	8:RG:61:HIS:HB3	1.89	0.55
12:S0:247:ASP:HA	12:S0:314:GLU:OE2	2.06	0.55
12:S3:235:GLN:HG2	12:S3:239:LYS:NZ	2.21	0.55
9:SD:68:LEU:HB3	9:SD:96:GLY:HA2	1.88	0.55
9:SF:189:VAL:HA	9:SF:192:LEU:HB3	1.87	0.55
9:SJ:5:VAL:HG22	9:SJ:62:ARG:HD2	1.88	0.55
8:SK:30:ILE:HG23	8:SK:36:MET:HE1	1.87	0.55
9:SL:2:ARG:NH2	9:SL:240:LEU:O	2.39	0.55
8:SM:150:ALA:O	8:SM:154:MET:HG2	2.06	0.55
9:SN:64:VAL:HG21	9:SN:120:VAL:HG12	1.88	0.55
8:TC:116:ASP:N	8:TC:116:ASP:OD1	2.34	0.55
8:TI:291:ILE:HD12	8:TI:375:VAL:HB	1.88	0.55
9:UB:204:ASN:OD1	9:UB:205:GLU:N	2.40	0.55
8:UI:2:ARG:HB3	8:UI:242:LEU:HD23	1.88	0.55
8:UK:137:ILE:HD13	8:UK:154:MET:HE1	1.89	0.55
30:V6:110:ARG:HG3	30:V7:367:GLU:OE1	2.06	0.55
30:V8:237:ASP:HA	30:V8:240:ILE:HG22	1.88	0.55
9:VD:7:LEU:N	9:VD:134:GLN:O	2.38	0.55
9:VD:198:GLU:HA	9:VD:264:HIS:HB2	1.88	0.55
8:VG:46:ASP:O	8:VG:50:ASN:ND2	2.40	0.55
9:VH:263:LEU:HD22	9:VH:422:TYR:HD2	1.72	0.55
8:VI:1:MET:SD	8:VI:1:MET:N	2.79	0.55
8:WC:326:LYS:HZ1	9:WD:220:PRO:HD2	1.71	0.55
9:WN:7:LEU:N	9:WN:134:GLN:O	2.32	0.55
9:WN:130:LEU:O	9:WN:162:ARG:NH1	2.38	0.55
34:X6:116:PHE:HA	34:X6:119:ILE:HG22	1.88	0.55
36:Y1:244:ASP:N	36:Y1:244:ASP:OD1	2.32	0.55
37:YG:44:GLY:O	37:YG:144:ARG:NH1	2.39	0.55
39:a:125:ASN:O	39:a:129:GLN:NE2	2.37	0.55
39:a:197:ILE:HG23	39:b:541:LYS:HZ2	1.72	0.55
39:d:526:ARG:HG2	39:d:535:CYS:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:f:63:HIS:HD1	42:f:94:ILE:HD12	1.72	0.55
48:s:135:LYS:NZ	48:s:136:GLU:O	2.38	0.55
2:1:375:SER:O	2:1:381:GLN:NE2	2.38	0.55
2:2:476:ASN:HA	9:IP:221:THR:HG21	1.89	0.55
7:A2:109:LEU:HD22	7:A2:147:MET:HE1	1.88	0.55
8:AA:90:GLU:OE2	8:AA:121:ARG:NH1	2.38	0.55
9:AB:5:VAL:HB	9:AB:133:PHE:HD1	1.70	0.55
8:AG:56:THR:HA	8:BG:285:GLN:HB2	1.89	0.55
9:AL:313:VAL:HG13	9:AL:367:PHE:HE1	1.72	0.55
9:AN:323:MET:HE1	8:AO:224:TYR:CG	2.42	0.55
9:AP:7:LEU:HD13	9:AP:151:LEU:HD21	1.88	0.55
10:B:29:GLN:OE1	10:B:36:ARG:NH2	2.40	0.55
11:B1:90:ASP:OD2	28:Q1:110:THR:OG1	2.23	0.55
9:BL:344:TRP:H	9:BL:344:TRP:CD1	2.24	0.55
12:C0:90:PHE:HB2	17:O8:183:ARG:HD3	1.89	0.55
12:C1:353:GLU:OE2	11:R1:73:ARG:NH1	2.27	0.55
8:CC:211:ASP:OD1	8:CC:215:ARG:NH2	2.37	0.55
8:CI:27:GLU:HG2	8:CI:243:ARG:NH2	2.22	0.55
8:CK:103:TYR:HB3	8:CK:408:TYR:HE1	1.71	0.55
9:CL:198:GLU:OE1	9:CL:250:LEU:HD21	2.06	0.55
9:CN:69:GLU:HG2	9:CN:71:GLY:H	1.72	0.55
9:CN:267:MET:HE1	9:CN:367:PHE:HE2	1.71	0.55
8:CO:213:CYS:HA	8:CO:217:LEU:HD12	1.89	0.55
14:D2:230:ARG:HH22	8:LG:41:THR:H	1.55	0.55
14:D3:285:ILE:O	14:D3:289:THR:HG23	2.07	0.55
9:DH:41:ASP:OD1	17:K:51:SER:OG	2.24	0.55
9:DL:180:VAL:HG13	9:DL:184:ASN:HD21	1.71	0.55
8:DM:239:THR:OG1	8:DM:243:ARG:NH1	2.39	0.55
9:FB:286:VAL:HG11	9:FB:326:VAL:HG12	1.89	0.55
8:FM:317:MET:HB2	8:FM:353:VAL:HA	1.89	0.55
9:GD:323:MET:HE1	8:GE:224:TYR:CG	2.42	0.55
8:GE:71:GLU:HG2	8:GE:73:THR:HG22	1.87	0.55
8:GE:171:ILE:HD13	8:GE:204:VAL:HG23	1.88	0.55
9:GN:335:ASN:HB2	36:Y2:38:PHE:HZ	1.70	0.55
9:HJ:149:THR:HB	9:HJ:191:GLN:HG2	1.88	0.55
9:HL:313:VAL:HG23	9:HL:367:PHE:HE1	1.71	0.55
9:HL:345:ILE:HG23	8:HM:398:MET:HE2	1.89	0.55
9:IF:314:ALA:HB3	9:IF:368:ILE:HB	1.89	0.55
9:IH:134:GLN:HE22	9:IH:165:ASN:HB3	1.72	0.55
9:IL:48:ASN:O	9:IL:62:ARG:NH2	2.39	0.55
19:J4:207:LYS:HA	19:J4:210:VAL:HB	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JN:145:SER:O	9:JN:188:SER:OG	2.25	0.55
8:KA:280:LYS:HA	8:KA:280:LYS:HE3	1.89	0.55
9:KF:322:SER:OG	8:KG:222:PRO:O	2.24	0.55
9:KJ:282:ARG:NH1	9:KJ:288:GLU:OE1	2.40	0.55
8:KO:271:THR:HB	8:KO:377:MET:HE3	1.89	0.55
9:KP:143:THR:O	9:KP:148:GLY:N	2.33	0.55
8:LE:276:ILE:HD11	8:LE:286:LEU:HD11	1.87	0.55
8:LK:236:SER:HA	8:LK:243:ARG:HH22	1.72	0.55
8:LO:90:GLU:HA	43:k:129:ARG:NH1	2.21	0.55
8:LO:318:LEU:HB2	8:LO:376:CYS:HB3	1.88	0.55
8:MA:27:GLU:OE2	8:MA:243:ARG:NH2	2.40	0.55
9:MB:161:ASP:OD2	9:MB:162:ARG:NH1	2.38	0.55
8:MI:120:ASP:OD1	8:MI:124:LYS:NZ	2.38	0.55
9:NF:32:PRO:C	9:NF:84:ILE:HD11	2.31	0.55
8:NM:54:SER:O	8:NM:62:VAL:N	2.39	0.55
9:NN:313:VAL:HG23	9:NN:367:PHE:HE1	1.71	0.55
9:NP:214:THR:OG1	9:NP:297:LYS:NZ	2.30	0.55
25:O5:101:ALA:HB2	25:O5:183:ILE:HD13	1.87	0.55
8:OE:28:HIS:CE1	8:OE:36:MET:HE2	2.41	0.55
9:OH:392:LYS:HB3	9:OH:395:LEU:HD22	1.89	0.55
8:OI:287:SER:HA	8:OI:373:ARG:HH22	1.70	0.55
9:OJ:295:ASP:HA	36:Y4:54:ARG:HB2	1.87	0.55
9:OP:229:VAL:HG12	9:OP:233:MET:HE2	1.88	0.55
27:P3:171:ARG:NH2	11:R1:20:ASN:OD1	2.39	0.55
27:P4:163:ARG:HG3	27:P4:163:ARG:O	2.06	0.55
27:P5:19:SER:H	27:P5:22:MET:HE3	1.72	0.55
8:PE:23:LEU:HD12	8:PE:26:LEU:HD11	1.88	0.55
8:PI:346:TRP:O	9:PJ:388:MET:HB3	2.07	0.55
8:PO:206:ASN:HB3	8:PO:210:TYR:CZ	2.42	0.55
9:QB:290:THR:HG21	9:QB:329:GLN:HB2	1.88	0.55
8:QE:360:PRO:O	8:QE:370:LYS:NZ	2.36	0.55
11:R2:179:LYS:O	11:R2:182:THR:OG1	2.24	0.55
11:R2:200:SER:OG	14:T3:212:GLU:OE2	2.24	0.55
11:R4:281:TRP:O	11:R4:285:ASN:ND2	2.40	0.55
9:RD:167:PHE:CE2	9:RD:233:MET:HB3	2.42	0.55
9:RD:372:THR:HA	9:RD:422:TYR:HE1	1.71	0.55
12:S5:167:MET:O	12:S5:171:THR:HG23	2.07	0.55
8:SC:116:ASP:N	8:SC:116:ASP:OD1	2.39	0.55
9:SF:324:LYS:HE3	8:SG:222:PRO:HG2	1.88	0.55
9:SJ:193:VAL:HG21	9:SJ:418:LEU:HD11	1.88	0.55
8:SK:124:LYS:NZ	8:TK:297:GLU:OE2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SK:284:GLU:N	8:SK:284:GLU:OE1	2.39	0.55
9:SN:234:SER:O	9:SN:238:THR:OG1	2.24	0.55
8:TA:285:GLN:HE22	8:TA:287:SER:HB3	1.71	0.55
9:TF:269:GLY:HA2	9:TF:300:MET:HE3	1.89	0.55
8:TG:7:ILE:HB	8:TG:137:ILE:HG23	1.89	0.55
25:U:239:ASP:HA	25:U:269:MET:HG2	1.89	0.55
30:U7:232:LEU:HD11	30:U7:320:GLU:OE2	2.06	0.55
8:UC:286:LEU:O	8:UC:373:ARG:NH1	2.40	0.55
9:UN:372:THR:HA	9:UN:422:TYR:HE1	1.72	0.55
25:V:435:ASP:N	25:V:435:ASP:OD2	2.36	0.55
30:V6:227:ASP:O	30:V6:231:LYS:HG2	2.07	0.55
9:VB:31:ASP:OD1	9:VB:35:THR:N	2.38	0.55
8:VC:88:HIS:HD1	8:WC:283:HIS:HB3	1.70	0.55
9:VH:132:GLY:HA3	9:VH:163:ILE:HG22	1.88	0.55
9:VJ:54:ALA:HB3	9:VJ:58:LYS:HB3	1.89	0.55
30:W4:201:ARG:HH21	30:W4:207:VAL:H	1.55	0.55
30:W7:153:LYS:HE2	30:W7:254:ILE:HG23	1.88	0.55
9:WD:8:GLN:HB3	9:WD:65:LEU:HA	1.89	0.55
8:WE:245:ASP:OD1	8:WE:245:ASP:N	2.36	0.55
9:WN:122:LYS:HZ1	37:YG:199:GLN:CD	2.14	0.55
9:WP:165:ASN:HB3	9:WP:198:GLU:HG3	1.89	0.55
33:X5:26:LYS:HD3	33:X5:27:PHE:H	1.71	0.55
34:X8:46:ARG:O	34:X8:46:ARG:NH1	2.40	0.55
39:a:170:ARG:NH1	42:f:545:SER:HB3	2.22	0.55
40:a4:34:ARG:HG3	40:a4:34:ARG:HH11	1.71	0.55
41:b1:339:LYS:HA	41:b1:342:GLU:OE1	2.07	0.55
41:b4:261:ARG:O	41:b4:261:ARG:NH1	2.39	0.55
41:b4:310:ILE:O	41:b4:314:MET:HG2	2.06	0.55
42:e:167:SER:OG	42:e:217:ASP:OD2	2.25	0.55
4:j1:191:TRP:HE1	4:j1:226:GLY:HA3	1.71	0.55
3:3:152:LYS:NZ	9:GL:79:GLY:O	2.37	0.55
3:3:350:ARG:HH22	8:GE:278:ALA:HB3	1.71	0.55
8:AA:68:VAL:HG12	8:AA:93:ILE:HB	1.88	0.55
9:AD:344:TRP:CD1	8:AE:401:LYS:HZ1	2.25	0.55
9:AF:195:ASN:HD22	9:AF:195:ASN:C	2.15	0.55
9:AF:278:SER:OG	9:AF:282:ARG:NH2	2.39	0.55
9:AF:344:TRP:H	9:AF:344:TRP:CD1	2.24	0.55
8:AM:186:ASN:O	8:AM:190:THR:OG1	2.24	0.55
9:BD:245:GLN:HG2	9:BD:323:MET:HE1	1.88	0.55
9:BD:314:ALA:HB3	9:BD:368:ILE:HB	1.86	0.55
8:BI:279:GLU:HG2	17:K:237:ARG:NE	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BN:119:VAL:HA	9:BN:122:LYS:HZ1	1.72	0.55
9:BN:173:PRO:HG3	9:BN:380:ARG:HD2	1.88	0.55
9:BP:290:THR:HG21	9:BP:329:GLN:HB3	1.88	0.55
12:C6:39:HIS:NE2	11:R4:384:LEU:HB3	2.22	0.55
9:CD:124:ALA:HA	9:CD:130:LEU:HD11	1.89	0.55
9:CD:131:GLN:HE22	9:CD:249:ASP:HB2	1.71	0.55
9:CF:77:ARG:O	9:CF:83:GLN:NE2	2.40	0.55
9:CL:322:SER:OG	8:CM:222:PRO:O	2.25	0.55
8:CM:294:ALA:HA	8:CM:297:GLU:HG2	1.89	0.55
9:CN:133:PHE:HB2	9:CN:164:MET:HE1	1.88	0.55
9:CP:6:HIS:HD2	9:CP:21:TRP:HE1	1.54	0.55
8:DC:116:ASP:N	8:DC:116:ASP:OD1	2.39	0.55
8:EA:88:HIS:NE2	8:EA:90:GLU:HB3	2.21	0.55
8:EM:16:ILE:HD11	8:EM:231:ILE:HB	1.89	0.55
8:FC:276:ILE:HG23	8:FC:280:LYS:HZ2	1.71	0.55
8:GI:36:MET:HE3	8:GI:61:HIS:CE1	2.42	0.55
9:GL:134:GLN:OE1	9:GL:233:MET:HE1	2.07	0.55
8:GO:204:VAL:HG22	8:GO:302:MET:HE1	1.88	0.55
8:HE:74:VAL:HA	8:HE:77:GLU:OE2	2.07	0.55
9:HJ:245:GLN:OE1	8:HK:223:THR:OG1	2.24	0.55
9:HN:12:CYS:SG	9:HN:138:SER:OG	2.57	0.55
9:HN:125:GLU:OE1	36:Y1:52:SER:HB3	2.05	0.55
8:IA:34:GLY:HA3	8:IA:60:LYS:HE2	1.89	0.55
9:ID:313:VAL:HG13	9:ID:367:PHE:HE1	1.71	0.55
8:IE:186:ASN:O	8:IE:190:THR:OG1	2.18	0.55
9:IF:317:PHE:HB3	9:IF:321:MET:HE1	1.89	0.55
8:IG:217:LEU:HD21	8:IG:367:ASP:HB2	1.89	0.55
8:IK:301:GLN:HG3	8:IK:307:PRO:HG3	1.88	0.55
8:IK:414:GLU:CD	8:IK:416:GLY:H	2.14	0.55
19:J4:266:GLU:HB2	41:b5:211:ARG:HH22	1.72	0.55
9:JL:406:MET:HE1	9:NJ:306:ARG:HB2	1.87	0.55
8:JO:349:THR:OG1	9:JP:178:THR:O	2.19	0.55
20:K1:53:LYS:HA	8:UC:225:THR:HG21	1.88	0.55
13:K3:410:ASP:OD2	13:K3:412:ARG:NH2	2.39	0.55
8:KC:116:ASP:OD1	8:KC:117:LEU:N	2.40	0.55
9:KH:51:TYR:HB3	9:KH:59:TYR:HB3	1.88	0.55
8:KM:311:LYS:HD3	8:KM:344:VAL:HG12	1.88	0.55
9:KN:130:LEU:O	9:KN:162:ARG:NH1	2.36	0.55
8:KO:119:LEU:O	8:KO:123:ARG:HG2	2.07	0.55
9:LD:55:THR:HG23	9:MD:282:ARG:O	2.07	0.55
17:M:7:HIS:HB3	17:M:10:PHE:HE1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:M3:158:GLU:OE2	27:P5:72:ARG:HG2	2.07	0.55
8:NG:217:LEU:HD21	8:NG:367:ASP:HB2	1.89	0.55
9:NH:117:LEU:HB3	9:NH:121:ARG:NH1	2.21	0.55
9:NH:293:MET:SD	9:NH:367:PHE:HB2	2.47	0.55
9:NJ:210:ILE:HG22	9:NJ:215:LEU:HD13	1.89	0.55
8:NM:4:CYS:HB3	8:NM:136:LEU:HD11	1.88	0.55
25:O5:487:PRO:HA	25:O5:490:PHE:HD2	1.72	0.55
17:O8:53:CYS:HB3	27:P3:157:LEU:O	2.06	0.55
9:OF:1:MET:HE2	9:OF:46:ARG:HD2	1.87	0.55
8:OI:63:PRO:O	8:OI:65:ALA:N	2.39	0.55
8:OI:350:GLY:HA2	9:OJ:179:VAL:HG12	1.89	0.55
9:OP:8:GLN:HE21	9:OP:14:ASN:HA	1.72	0.55
8:PE:102:ASN:HB3	8:PE:105:ARG:HB2	1.88	0.55
9:PF:130:LEU:O	9:PF:162:ARG:NH1	2.35	0.55
9:PF:335:ASN:O	9:PF:338:SER:OG	2.24	0.55
9:PL:271:ALA:HB1	9:PL:289:LEU:HD22	1.89	0.55
8:QE:244:PHE:CZ	8:QE:357:TYR:HB2	2.42	0.55
8:QG:286:LEU:HD12	8:QG:287:SER:N	2.21	0.55
9:QJ:86:ARG:HH21	9:RJ:281:TYR:HB2	1.72	0.55
8:QM:116:ASP:N	8:QM:116:ASP:OD1	2.38	0.55
9:QN:51:TYR:HB3	9:QN:59:TYR:HB3	1.89	0.55
8:RC:132:LEU:O	8:RC:164:LYS:NZ	2.36	0.55
8:RC:154:MET:HE1	8:RC:166:LYS:HD2	1.88	0.55
9:RF:372:THR:HA	9:RF:422:TYR:HE1	1.71	0.55
9:RJ:277:GLY:HA2	9:RJ:280:GLN:HE22	1.71	0.55
12:S9:452:LYS:NZ	12:S9:456:GLU:OE1	2.27	0.55
9:SB:204:ASN:ND2	52:SB:502:GDP:N3	2.55	0.55
8:TC:19:ALA:O	8:TC:22:GLU:HG2	2.07	0.55
9:TJ:193:VAL:HG21	9:TJ:418:LEU:HD11	1.88	0.55
8:TK:264:ARG:NH1	8:TK:431:ASP:OD2	2.37	0.55
9:TN:36:TYR:HE1	9:TN:43:GLN:HG2	1.72	0.55
25:U:457:ARG:HD2	25:U:458:ASN:HB2	1.88	0.55
30:U9:214:ASN:OD1	30:U9:217:ARG:NH2	2.39	0.55
8:UA:2:ARG:NH2	8:UA:133:GLN:OE1	2.34	0.55
9:UB:203:ASP:HB3	9:UB:301:ALA:HA	1.87	0.55
9:UB:210:ILE:O	9:UB:214:THR:OG1	2.23	0.55
30:V6:443:LEU:HA	30:V6:446:MET:HE1	1.88	0.55
8:VC:49:PHE:HD2	8:VC:53:PHE:HB2	1.72	0.55
9:VD:285:THR:HB	9:VD:287:PRO:HD2	1.89	0.55
31:W:636:ASP:N	31:W:636:ASP:OD1	2.37	0.55
30:W5:351:THR:HA	30:W5:462:LEU:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WE:52:PHE:HE2	8:WE:243:ARG:HD3	1.71	0.55
8:WE:236:SER:OG	8:WE:243:ARG:NH2	2.39	0.55
8:WI:180:ALA:HB3	8:WI:183:GLU:HB2	1.89	0.55
9:WL:111:GLU:OE2	37:YF:74:LYS:NZ	2.39	0.55
9:WN:330:MET:HE3	9:WN:331:LEU:HD22	1.88	0.55
34:X6:41:LYS:HB3	34:X6:88:ILE:HD12	1.87	0.55
35:XF:127:ASP:N	35:XF:127:ASP:OD1	2.38	0.55
31:Y:509:ILE:HG22	31:Y:596:ASP:HB3	1.89	0.55
39:a:194:MET:CB	39:b:521:LYS:HE2	2.36	0.55
39:a:345:LYS:HB2	39:a:345:LYS:NZ	2.21	0.55
41:b5:364:CYS:HB3	41:b5:433:LEU:HG	1.88	0.55
9:AB:362:LYS:HZ1	33:X4:78:GLN:HB2	1.71	0.55
8:BO:317:MET:HE3	8:BO:351:PHE:HD1	1.72	0.55
10:C:468:PHE:CD2	10:C:485:TYR:CD1	2.94	0.55
8:CG:88:HIS:HE2	8:DG:284:GLU:HG2	1.72	0.55
9:CL:198:GLU:N	9:CL:198:GLU:OE2	2.40	0.55
8:CQ:172:TYR:HB2	8:CQ:203:MET:HG2	1.89	0.55
9:DB:156:ARG:NH1	9:DB:197:ASP:OD1	2.40	0.55
9:DB:344:TRP:H	9:DB:344:TRP:CD1	2.24	0.55
8:DC:254:GLU:OE1	8:DC:254:GLU:N	2.35	0.55
8:DG:107:HIS:HA	8:DG:152:LEU:HD23	1.89	0.55
8:DG:276:ILE:HD11	8:DG:286:LEU:HD11	1.88	0.55
8:DI:102:ASN:HB3	8:DI:105:ARG:HB2	1.88	0.55
8:DQ:50:ASN:O	8:DQ:64:ARG:NH1	2.40	0.55
8:DQ:157:LEU:HA	8:DQ:160:ASP:HB3	1.89	0.55
9:EF:321:MET:HE3	9:EF:322:SER:H	1.72	0.55
9:FF:1:MET:HE3	9:FF:2:ARG:H	1.71	0.55
8:FK:316:CYS:HB3	8:FK:378:LEU:HB2	1.87	0.55
8:FO:209:ILE:HD12	8:FO:209:ILE:H	1.72	0.55
9:GB:150:LEU:HG	9:GB:154:LYS:HE2	1.89	0.55
9:GB:270:PHE:HD2	9:GB:273:LEU:HD21	1.72	0.55
9:GD:164:MET:HE3	9:GD:164:MET:HA	1.87	0.55
8:GO:91:GLN:HA	8:GO:121:ARG:HH12	1.71	0.55
9:HD:423:GLN:NE2	9:HD:427:ASP:OD2	2.40	0.55
8:HG:88:HIS:HD2	8:HG:89:PRO:HD2	1.72	0.55
8:IA:324:VAL:HG12	8:IA:326:LYS:H	1.72	0.55
8:IC:214:ARG:NH1	36:Y0:35:THR:O	2.39	0.55
9:IH:291:GLN:HE21	36:Y1:161:PHE:HB3	1.71	0.55
9:IJ:27:GLU:OE1	9:IJ:318:ARG:NH2	2.38	0.55
9:IL:25:SER:O	9:IL:29:GLY:N	2.39	0.55
8:IM:329:ASN:HB3	9:IN:175:VAL:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IN:285:THR:HB	9:IN:287:PRO:HD2	1.88	0.55
9:JB:244:GLY:N	9:JB:247:ASN:OD1	2.30	0.55
8:JE:24:TYR:HE1	8:JE:236:SER:HB2	1.72	0.55
8:JE:202:PHE:HE1	8:JE:378:LEU:HD11	1.71	0.55
9:JJ:309:ARG:NH2	9:JJ:339:SER:O	2.40	0.55
9:JL:101:TRP:HZ3	9:JL:403:MET:HE1	1.72	0.55
8:JM:25:CYS:O	8:JM:30:ILE:N	2.39	0.55
8:KE:298:PRO:HG3	8:KE:308:ARG:HH12	1.72	0.55
9:LD:268:PRO:HG2	9:LD:300:MET:HG3	1.88	0.55
8:LK:195:LEU:HD21	8:LK:428:LEU:HD12	1.87	0.55
9:LL:150:LEU:HD11	43:k:57:PRO:HG3	1.89	0.55
8:MC:437:VAL:O	9:MD:391:ARG:NH2	2.40	0.55
8:MK:336:LYS:O	45:n:26:ARG:NH1	2.39	0.55
8:MM:247:ALA:HB2	23:Q:379:ARG:HH11	1.72	0.55
8:NA:57:GLY:H	8:OA:285:GLN:HB2	1.71	0.55
8:NA:97:GLU:OE2	8:NA:110:ILE:HG23	2.06	0.55
9:ND:324:LYS:NZ	8:NE:210:TYR:O	2.39	0.55
9:NL:61:PRO:HD3	9:NL:84:ILE:HG22	1.89	0.55
8:NO:382:THR:HA	8:NO:432:TYR:HE1	1.72	0.55
9:NP:406:MET:SD	9:NP:406:MET:N	2.74	0.55
25:O5:31:LEU:HG	25:O5:40:VAL:HG12	1.88	0.55
9:OD:156:ARG:HG3	9:OD:195:ASN:HB3	1.89	0.55
9:OD:309:ARG:HG3	9:OD:426:GLN:HG3	1.89	0.55
9:OL:1:MET:N	9:OL:3:GLU:OE1	2.37	0.55
9:ON:226:ASN:O	9:ON:230:SER:N	2.40	0.55
9:OP:297:LYS:HZ1	9:OP:306:ARG:HH12	1.53	0.55
27:P3:172:TRP:HE1	11:R1:16:ASP:HB3	1.72	0.55
9:PH:124:ALA:HA	9:PH:130:LEU:HD11	1.89	0.55
9:QB:202:ILE:HG23	9:QB:300:MET:HE1	1.89	0.55
9:QH:180:VAL:HG13	9:QH:184:ASN:HD21	1.72	0.55
9:QJ:226:ASN:O	9:QJ:230:SER:OG	2.22	0.55
9:QL:134:GLN:HB2	9:QL:165:ASN:HD21	1.72	0.55
8:QO:311:LYS:HE3	8:QO:344:VAL:HG12	1.89	0.55
8:RG:116:ASP:N	8:RG:116:ASP:OD1	2.39	0.55
8:RG:154:MET:HE2	8:RG:157:LEU:HD23	1.88	0.55
9:RH:1:MET:HE2	9:RH:46:ARG:HD2	1.89	0.55
9:RL:114:ASP:N	9:RL:114:ASP:OD1	2.33	0.55
8:SI:316:CYS:HB2	8:SI:378:LEU:HB2	1.88	0.55
8:SK:311:LYS:HD2	8:SK:436:GLY:HA2	1.88	0.55
8:TC:105:ARG:HH21	8:TC:110:ILE:HD11	1.71	0.55
9:TD:198:GLU:HB2	9:TD:266:PHE:HE2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TE:188:ILE:O	8:TE:191:THR:OG1	2.23	0.55
8:TM:137:ILE:HG21	8:TM:154:MET:HE1	1.88	0.55
9:TN:5:VAL:HG22	9:TN:62:ARG:HD2	1.88	0.55
30:U3:340:ASN:OD1	30:U3:473:ARG:NH1	2.40	0.55
30:U3:391:MET:HA	30:U4:277:ILE:HD11	1.88	0.55
30:U6:127:LYS:HE2	30:U7:430:LEU:HG	1.88	0.55
30:U9:339:THR:OG1	30:U9:473:ARG:NH2	2.40	0.55
9:UD:164:MET:HE1	9:UD:196:THR:HG23	1.88	0.55
9:UJ:118:ASP:OD1	9:UJ:121:ARG:NH2	2.33	0.55
30:V1:387:TYR:CZ	30:V2:272:SER:HB3	2.42	0.55
30:V3:397:ALA:HB2	30:V4:280:PHE:CE1	2.39	0.55
8:VC:3:GLU:HG2	8:VC:64:ARG:NH1	2.22	0.55
9:VD:1:MET:SD	8:VE:96:LYS:NZ	2.61	0.55
30:W7:473:ARG:HA	30:W7:476:PHE:HE1	1.72	0.55
8:WA:254:GLU:HG2	9:WB:98:GLY:HA2	1.89	0.55
8:WA:264:ARG:NH1	8:WA:431:ASP:OD2	2.40	0.55
8:WE:139:HIS:NE2	8:WE:168:GLU:OE1	2.36	0.55
9:WL:215:LEU:HD12	9:WL:275:SER:HA	1.89	0.55
39:a6:106:PRO:O	39:a6:110:GLU:N	2.33	0.55
41:b2:241:ARG:NH2	41:b2:287:GLY:O	2.40	0.55
42:e:431:ARG:NH1	42:e:454:GLU:OE2	2.38	0.55
42:f:39:LEU:HD23	42:f:52:ILE:HD13	1.88	0.55
42:g:396:GLY:HA2	42:g:420:VAL:HG23	1.89	0.55
46:i3:1332:LEU:HD13	46:i3:1399:PHE:CE1	2.42	0.55
4:j1:172:ILE:HD12	4:j1:177:VAL:HG21	1.87	0.55
1:0:33:LEU:HD12	9:IN:118:ASP:OD2	2.07	0.55
2:1:543:TYR:CD1	2:1:548:LEU:HD21	2.41	0.55
4:6:127:GLU:OE2	4:6:127:GLU:N	2.32	0.55
9:AB:345:ILE:HG23	8:AC:398:MET:HE2	1.88	0.55
9:AD:125:GLU:OE2	9:BD:291:GLN:NE2	2.40	0.55
9:AJ:299:MET:HE3	9:AJ:305:PRO:HG3	1.88	0.55
8:AK:279:GLU:HG3	22:M3:24:PRO:HD3	1.87	0.55
9:AL:116:VAL:O	9:AL:120:VAL:HG12	2.06	0.55
9:AN:144:GLY:N	52:AN:502:GDP:O1B	2.32	0.55
11:B1:177:ARG:HG3	28:Q1:133:ARG:HB3	1.88	0.55
8:BO:91:GLN:CD	8:BO:121:ARG:HH12	2.15	0.55
8:CC:7:ILE:HD11	8:CC:122:ILE:HD11	1.88	0.55
8:CC:90:GLU:HG2	8:DC:280:LYS:NZ	2.22	0.55
8:CO:70:LEU:HB3	8:CO:98:ASP:HA	1.89	0.55
14:D0:40:GLY:O	14:D0:47:ARG:NH1	2.40	0.55
9:DH:8:GLN:HE21	9:DH:14:ASN:HA	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:79:ARG:HB3	17:L:17:ILE:HD11	1.89	0.55
9:DP:130:LEU:O	9:DP:162:ARG:NH1	2.38	0.55
8:EA:320:ARG:HD3	8:EA:360:PRO:HG3	1.89	0.55
9:EB:309:ARG:NH2	9:EB:339:SER:O	2.40	0.55
9:ED:390:ARG:HH21	9:ED:391:ARG:HE	1.55	0.55
9:EH:54:ALA:HA	9:FH:283:ALA:HB2	1.88	0.55
15:F:87:MET:HE3	15:F:87:MET:HA	1.88	0.55
9:FB:166:THR:HG23	9:FB:199:THR:HG23	1.89	0.55
9:FJ:293:MET:N	9:FJ:293:MET:SD	2.79	0.55
16:G:104:ASN:H	9:HL:337:ASN:HD21	1.55	0.55
8:GI:171:ILE:HD13	8:GI:204:VAL:HG23	1.88	0.55
9:HD:31:ASP:OD1	9:HD:35:THR:N	2.40	0.55
9:HF:149:THR:HB	9:HF:191:GLN:HG2	1.89	0.55
9:HF:167:PHE:CE1	9:HF:233:MET:HG2	2.41	0.55
8:IE:394:LYS:O	8:IE:397:LEU:HD12	2.07	0.55
8:IG:297:GLU:O	8:IG:301:GLN:NE2	2.40	0.55
8:IG:402:ARG:HB3	8:IG:405:VAL:HG11	1.89	0.55
9:IH:86:ARG:NH1	8:JI:283:HIS:HB2	2.21	0.55
9:IH:198:GLU:HB3	9:IH:266:PHE:HE2	1.71	0.55
9:IH:304:ASP:HB2	36:Y1:166:ARG:HE	1.72	0.55
17:J:28:ARG:O	17:J:28:ARG:NH1	2.35	0.55
9:JH:337:ASN:HB3	9:JH:340:TYR:HD2	1.71	0.55
9:JJ:382:SER:OG	9:JJ:412:GLU:OE2	2.23	0.55
8:KG:241:SER:HA	8:KG:356:ASN:ND2	2.22	0.55
9:KP:284:LEU:HB3	9:KP:362:LYS:HE2	1.88	0.55
17:L:53:CYS:SG	17:L:54:SER:N	2.80	0.55
9:LB:276:ARG:HA	9:LB:279:GLN:HG3	1.88	0.55
9:LD:309:ARG:HG3	9:LD:426:GLN:HG3	1.88	0.55
8:LE:239:THR:HB	8:LE:243:ARG:HH12	1.72	0.55
8:LG:88:HIS:CE1	8:LG:90:GLU:HG3	2.42	0.55
8:LI:70:LEU:HB3	8:LI:98:ASP:HA	1.88	0.55
9:LL:147:MET:O	9:LL:150:LEU:N	2.41	0.55
9:LN:51:TYR:HB3	9:LN:59:TYR:HB3	1.88	0.55
22:M2:175:TYR:CD1	25:U:226:PRO:HG3	2.42	0.55
15:N2:228:ASN:O	15:N2:228:ASN:ND2	2.39	0.55
9:ND:15:GLN:C	9:ND:226:ASN:HD21	2.15	0.55
8:NE:203:MET:HE3	8:NE:203:MET:H	1.70	0.55
8:NE:251:ASP:H	8:NE:254:GLU:HG2	1.71	0.55
9:NF:313:VAL:HG13	9:NF:367:PHE:HE1	1.71	0.55
9:NL:267:MET:HE1	9:NL:373:ALA:HB3	1.89	0.55
8:NO:35:GLN:NE2	8:NO:58:ALA:O	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NP:273:LEU:O	9:NP:292:GLN:NE2	2.35	0.55
17:O7:292:MET:HE3	17:O7:295:ASN:HD21	1.69	0.55
8:OE:318:LEU:HB2	8:OE:376:CYS:HB3	1.89	0.55
8:OG:165:SER:HB3	8:OG:256:GLN:HE22	1.72	0.55
8:OG:172:TYR:N	8:OG:204:VAL:O	2.36	0.55
9:OH:102:ALA:HB1	9:OH:403:MET:HE1	1.88	0.55
8:OI:108:TYR:HA	8:OI:112:LYS:HE3	1.89	0.55
9:OL:211:CYS:HA	9:OL:215:LEU:HD12	1.89	0.55
9:OL:392:LYS:HE2	9:OL:395:LEU:HB3	1.88	0.55
8:OO:107:HIS:HA	8:OO:152:LEU:HD23	1.88	0.55
8:OO:203:MET:N	8:OO:203:MET:SD	2.79	0.55
23:P:187:GLN:OE1	25:V:62:LEU:HD21	2.07	0.55
17:P9:146:ARG:HH22	17:P9:166:ALA:HB3	1.72	0.55
8:PK:295:CYS:HB3	8:PK:377:MET:HE3	1.89	0.55
8:QE:104:ALA:HB2	8:QE:408:TYR:HD2	1.71	0.55
8:QE:188:ILE:O	8:QE:191:THR:OG1	2.25	0.55
8:QE:264:ARG:NH1	8:QE:431:ASP:OD2	2.40	0.55
8:QG:136:LEU:HD12	8:QG:138:PHE:HE1	1.72	0.55
8:QM:339:ARG:NE	8:QM:339:ARG:O	2.40	0.55
9:RD:249:ASP:H	9:RD:252:LYS:HB2	1.71	0.55
9:RF:323:MET:HA	9:RF:323:MET:HE3	1.89	0.55
9:SB:262:ARG:HH21	9:SB:418:LEU:HD13	1.71	0.55
8:SE:324:VAL:HG22	8:SE:326:LYS:H	1.71	0.55
14:T1:122:ASP:N	14:T1:122:ASP:OD1	2.38	0.55
8:TC:298:PRO:HG3	8:TC:308:ARG:HE	1.71	0.55
25:U:440:PHE:CD2	25:U:449:ILE:HD11	2.42	0.55
30:U8:211:VAL:HG13	30:U8:343:PHE:HE1	1.72	0.55
8:UA:188:ILE:O	8:UA:191:THR:OG1	2.22	0.55
8:UC:287:SER:O	8:UC:291:ILE:HD12	2.07	0.55
8:UM:213:CYS:HA	8:UM:217:LEU:HD23	1.89	0.55
30:V3:398:CYS:SG	30:V3:401:ARG:NH2	2.80	0.55
30:V5:170:MET:HE1	30:V5:318:ARG:HB2	1.87	0.55
30:V6:178:GLU:O	30:V6:182:GLU:HG2	2.06	0.55
8:VC:88:HIS:CD2	8:VC:90:GLU:HB3	2.42	0.55
9:VJ:34:GLY:HA3	9:VJ:58:LYS:HZ1	1.72	0.55
9:WD:204:ASN:OD1	52:WD:502:GDP:N2	2.40	0.55
9:WL:33:THR:HG22	9:WL:58:LYS:HZ1	1.72	0.55
8:WM:158:SER:O	8:WM:162:GLY:HA2	2.07	0.55
8:WM:278:ALA:HB3	42:g:458:LYS:NZ	2.22	0.55
37:YG:168:GLU:OE2	37:YG:168:GLU:N	2.37	0.55
39:a:107:GLU:HB2	43:j:252:ILE:HD11	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:758:SER:OG	8:HG:1:MET:SD	2.51	0.54
2:2:488:LEU:H	9:IP:279:GLN:HE21	1.54	0.54
3:3:48:HIS:HA	3:3:51:LEU:HG	1.88	0.54
4:6:100:GLN:CD	4:6:100:GLN:H	2.15	0.54
1:7:53:ARG:HH11	9:JD:216:LYS:HG3	1.72	0.54
9:AP:157:GLU:OE1	9:AP:157:GLU:N	2.38	0.54
11:B4:136:GLU:HB3	11:B4:261:THR:HG22	1.88	0.54
9:BH:7:LEU:N	9:BH:134:GLN:O	2.36	0.54
9:BH:198:GLU:HA	9:BH:264:HIS:HB2	1.89	0.54
9:CB:236:VAL:HG13	9:CB:237:THR:HG23	1.89	0.54
9:CB:252:LYS:HG3	8:CC:100:ALA:HA	1.87	0.54
9:CL:311:LEU:HD12	9:CL:342:VAL:HG11	1.88	0.54
8:CM:286:LEU:O	8:CM:373:ARG:NH1	2.40	0.54
9:CN:217:LEU:HD12	9:CN:220:PRO:HB3	1.89	0.54
9:CP:130:LEU:O	9:CP:162:ARG:NH1	2.38	0.54
8:DI:254:GLU:HG2	9:DJ:98:GLY:HA2	1.89	0.54
15:E:101:LYS:HD2	15:E:104:LEU:HD12	1.88	0.54
9:EH:276:ARG:HG2	25:V:397:CYS:SG	2.47	0.54
9:EH:346:PRO:HD2	8:EI:398:MET:HE1	1.88	0.54
8:EI:31:GLN:HE21	8:EI:32:PRO:HD2	1.72	0.54
8:EI:132:LEU:O	8:EI:164:LYS:NZ	2.36	0.54
8:EM:107:HIS:HA	8:EM:152:LEU:HD23	1.88	0.54
9:EN:265:PHE:HB3	9:EN:374:ILE:HD13	1.88	0.54
8:FC:345:ASP:N	8:FC:345:ASP:OD1	2.40	0.54
9:FJ:69:GLU:HG2	9:FJ:71:GLY:H	1.71	0.54
8:FK:15:GLN:HB3	8:FK:228:ASN:HD21	1.71	0.54
8:FM:346:TRP:HZ2	8:FM:435:VAL:HG13	1.72	0.54
8:GC:136:LEU:HD22	8:GC:167:LEU:HD13	1.88	0.54
8:GC:213:CYS:SG	8:GC:214:ARG:N	2.79	0.54
8:GE:53:PHE:HB3	8:GE:61:HIS:HB3	1.89	0.54
9:GF:274:THR:HB	9:GF:278:SER:HB2	1.90	0.54
8:GG:276:ILE:HD11	8:GG:286:LEU:HD11	1.89	0.54
8:HK:1:MET:SD	8:HK:2:ARG:N	2.81	0.54
8:IA:9:VAL:HG11	8:IA:150:ALA:HB2	1.89	0.54
8:IA:186:ASN:O	8:IA:190:THR:OG1	2.25	0.54
8:IE:326:LYS:NZ	9:IF:218:THR:O	2.30	0.54
9:IF:132:GLY:HA3	9:IF:163:ILE:HG13	1.90	0.54
8:IG:28:HIS:NE2	8:IG:243:ARG:HD2	2.21	0.54
8:IG:331:ALA:O	8:IG:335:ILE:HG12	2.07	0.54
8:IK:28:HIS:HD2	8:IK:49:PHE:HA	1.71	0.54
9:JD:337:ASN:HB3	9:JD:340:TYR:HD2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JE:260:VAL:HB	9:JF:397:TRP:HZ2	1.72	0.54
9:JF:247:ASN:O	9:JF:252:LYS:NZ	2.41	0.54
8:JM:311:LYS:HD2	8:JM:343:PHE:C	2.32	0.54
9:JN:256:ASN:ND2	9:JN:350:LYS:HD3	2.22	0.54
17:K:53:CYS:SG	17:K:54:SER:N	2.80	0.54
9:KB:252:LYS:NZ	50:KC:501:GTP:O3G	2.40	0.54
9:KB:324:LYS:HB2	8:KC:210:TYR:CE2	2.42	0.54
8:KG:171:ILE:HD12	8:KG:206:ASN:HD21	1.72	0.54
9:KN:207:LEU:HD22	9:KN:225:LEU:HB3	1.89	0.54
9:KN:229:VAL:O	9:KN:233:MET:HG2	2.06	0.54
8:LA:415:GLU:N	8:LA:415:GLU:OE1	2.40	0.54
8:LG:311:LYS:H	8:LG:382:THR:HG22	1.71	0.54
8:LK:266:HIS:ND1	8:LK:266:HIS:O	2.40	0.54
8:MM:49:PHE:HB2	8:MM:53:PHE:HD2	1.71	0.54
8:MM:114:ILE:HG12	33:X5:7:LEU:HD21	1.88	0.54
9:MP:265:PHE:HB2	9:MP:374:ILE:HD12	1.89	0.54
15:N2:273:ASN:OD1	15:N2:276:ASN:N	2.37	0.54
9:ND:130:LEU:HD23	9:ND:162:ARG:HG3	1.89	0.54
9:ND:133:PHE:HB2	9:ND:164:MET:SD	2.47	0.54
9:NF:198:GLU:HA	9:NF:264:HIS:HB2	1.89	0.54
8:NG:257:THR:HA	9:NH:397:TRP:CZ3	2.41	0.54
8:NK:250:VAL:HG11	8:NK:318:LEU:HD21	1.88	0.54
9:OF:68:LEU:HB3	9:OF:96:GLY:HA2	1.89	0.54
8:OG:289:ALA:O	8:OG:293:ASN:ND2	2.40	0.54
9:OH:346:PRO:HG3	8:OI:394:LYS:HB2	1.89	0.54
8:OI:11:GLN:HA	8:OI:74:VAL:HG11	1.89	0.54
8:OK:287:SER:N	8:OK:290:GLU:OE1	2.40	0.54
27:P3:49:GLN:O	27:P3:53:PHE:HB2	2.07	0.54
27:P5:158:CYS:HB3	17:P8:53:CYS:SG	2.47	0.54
27:P5:162:GLN:C	27:P5:163:ARG:HD3	2.32	0.54
9:PB:322:SER:HB3	8:PC:221:ARG:HD2	1.88	0.54
8:PM:358:GLN:NE2	8:PM:359:PRO:O	2.40	0.54
28:Q4:148:GLU:OE1	28:Q4:150:VAL:HG23	2.07	0.54
9:QB:331:LEU:O	9:QB:335:ASN:ND2	2.40	0.54
9:QD:358:PRO:HG2	9:QD:361:LEU:HB3	1.89	0.54
9:QF:24:ILE:HA	9:QF:27:GLU:HB2	1.87	0.54
9:QJ:257:MET:HB3	9:QJ:266:PHE:CZ	2.41	0.54
8:QK:219:ILE:HB	8:QK:222:PRO:HG3	1.89	0.54
9:RD:289:LEU:HD11	9:RD:363:MET:HB3	1.89	0.54
9:RF:109:GLY:HA2	9:RF:147:MET:HE3	1.89	0.54
9:RJ:379:LYS:HD3	9:RJ:419:VAL:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RK:286:LEU:HG	8:RK:373:ARG:HH11	1.72	0.54
12:S4:179:ARG:HH22	12:S4:182:GLU:CD	2.15	0.54
9:SF:15:GLN:NE2	52:SF:502:GDP:N7	2.55	0.54
8:SG:172:TYR:HD1	8:SG:203:MET:HE2	1.71	0.54
9:SJ:252:LYS:NZ	50:SK:501:GTP:O3G	2.39	0.54
9:TF:83:GLN:O	9:UF:281:TYR:OH	2.21	0.54
8:TG:275:VAL:HA	8:TG:368:LEU:HD11	1.90	0.54
9:TJ:7:LEU:N	9:TJ:134:GLN:O	2.38	0.54
9:TL:44:LEU:HA	9:TL:47:ILE:CD1	2.37	0.54
9:TL:150:LEU:HG	9:TL:154:LYS:HE2	1.89	0.54
9:TN:54:ALA:HA	9:UN:283:ALA:HB2	1.89	0.54
30:U5:110:ARG:HD2	30:U6:367:GLU:HG3	1.88	0.54
9:UB:273:LEU:O	9:UB:292:GLN:NE2	2.40	0.54
8:UE:58:ALA:HB3	8:UE:60:LYS:HE2	1.89	0.54
8:UI:70:LEU:HB3	8:UI:98:ASP:HA	1.88	0.54
8:UM:311:LYS:H	8:UM:382:THR:HG22	1.70	0.54
30:V7:306:HIS:O	30:V7:310:MET:HG2	2.07	0.54
9:VB:237:THR:HG22	9:VB:250:LEU:HD21	1.88	0.54
9:VB:248:ALA:HA	9:VB:252:LYS:HD2	1.89	0.54
9:VD:58:LYS:NZ	9:VD:59:TYR:O	2.40	0.54
9:VD:150:LEU:HG	9:VD:154:LYS:HE2	1.89	0.54
9:VN:143:THR:HG23	9:VN:147:MET:HG2	1.89	0.54
9:VN:165:ASN:HB3	9:VN:200:TYR:HE2	1.70	0.54
30:W0:149:LEU:HG	30:W0:257:LYS:HD3	1.89	0.54
8:WA:70:LEU:HB3	8:WA:98:ASP:HA	1.89	0.54
8:WC:185:TYR:HE2	8:WC:404:PHE:HB2	1.71	0.54
9:WH:114:ASP:N	9:WH:114:ASP:OD1	2.39	0.54
8:WO:163:LYS:HE3	37:YH:72:ASP:HA	1.89	0.54
34:X6:230:TYR:CE2	34:X6:236:LEU:HG	2.41	0.54
35:XA:73:LEU:HB2	35:XA:167:PHE:HB3	1.89	0.54
31:Z:633:GLU:HA	31:Z:699:TRP:HE1	1.72	0.54
41:b1:387:LEU:HD22	44:h1:51:MET:SD	2.47	0.54
41:b4:432:ASN:O	41:b4:436:LEU:HD12	2.07	0.54
42:g:35:ASP:OD2	42:g:38:HIS:ND1	2.39	0.54
4:j1:353:ARG:NH2	4:j1:365:GLY:O	2.39	0.54
45:l:45:ASP:OD1	45:l:46:ARG:N	2.40	0.54
47:o:160:LYS:HG3	47:p:483:TYR:CE2	2.42	0.54
1:0:53:ARG:HH12	9:JP:216:LYS:HE2	1.71	0.54
9:AF:149:THR:HB	9:AF:191:GLN:HG2	1.89	0.54
11:B1:214:THR:HG22	11:B1:217:GLN:HB2	1.89	0.54
8:BC:33:ASP:HA	8:BC:85:GLN:HE21	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BD:130:LEU:O	9:BD:162:ARG:NH1	2.37	0.54
9:BN:67:ASP:HB2	9:BN:73:MET:HE2	1.90	0.54
9:BP:337:ASN:HB3	9:BP:340:TYR:HD2	1.72	0.54
12:C6:71:ARG:NH1	12:S0:230:GLN:OE1	2.39	0.54
9:CB:324:LYS:HE3	8:CC:210:TYR:HB3	1.89	0.54
8:CK:191:THR:HA	8:CK:194:THR:HG22	1.89	0.54
9:CN:278:SER:HB2	9:CN:282:ARG:NH2	2.21	0.54
8:CO:302:MET:N	8:CO:302:MET:SD	2.80	0.54
14:D2:300:VAL:HG11	14:D2:434:ARG:HH22	1.72	0.54
8:DM:108:TYR:HA	8:DM:112:LYS:HE3	1.88	0.54
8:DM:167:LEU:HD23	8:DM:202:PHE:HE2	1.72	0.54
9:EF:245:GLN:O	8:EG:11:GLN:NE2	2.41	0.54
8:EI:204:VAL:HG13	8:EI:302:MET:HB3	1.90	0.54
9:EJ:252:LYS:NZ	50:EK:501:GTP:O3G	2.31	0.54
8:EK:53:PHE:HB3	8:EK:61:HIS:HB3	1.89	0.54
8:EM:188:ILE:HG23	8:EM:189:LEU:HD22	1.89	0.54
8:EO:298:PRO:HG3	8:EO:308:ARG:HH22	1.72	0.54
15:F:266:GLN:N	15:F:266:GLN:OE1	2.39	0.54
8:FI:326:LYS:HZ2	9:FJ:219:THR:HA	1.70	0.54
9:FN:344:TRP:H	9:FN:344:TRP:CD1	2.24	0.54
8:FO:68:VAL:HG12	8:FO:93:ILE:HB	1.89	0.54
8:GC:120:ASP:HB3	8:GC:123:ARG:HH22	1.73	0.54
8:GG:36:MET:SD	8:GG:40:LYS:NZ	2.65	0.54
8:GG:249:ASN:OD1	8:GG:249:ASN:N	2.39	0.54
9:GL:202:ILE:HD11	9:GL:207:LEU:HD11	1.90	0.54
8:HA:73:THR:O	8:HA:77:GLU:HG2	2.08	0.54
9:HD:247:ASN:ND2	8:HE:71:GLU:OE2	2.40	0.54
9:HH:26:ASP:OD1	9:HH:359:ARG:NH1	2.41	0.54
8:IC:348:PRO:HG2	9:ID:384:GLN:HB3	1.88	0.54
8:IG:28:HIS:HD1	8:IG:49:PHE:HB3	1.72	0.54
8:II:90:GLU:HG2	8:II:121:ARG:HE	1.73	0.54
8:IO:284:GLU:OE2	8:IO:286:LEU:HG	2.07	0.54
9:IP:20:PHE:HD2	9:IP:233:MET:HE3	1.71	0.54
9:JJ:321:MET:HE1	9:JJ:323:MET:HE2	1.88	0.54
8:JM:258:ASN:HD21	9:JN:179:VAL:H	1.55	0.54
9:JN:257:MET:SD	9:JN:312:THR:OG1	2.62	0.54
9:JP:173:PRO:HG2	9:JP:174:LYS:HD3	1.89	0.54
9:KB:316:VAL:HG23	9:KB:352:ALA:HB3	1.88	0.54
9:KD:68:LEU:HB3	9:KD:96:GLY:HA2	1.88	0.54
9:KD:173:PRO:HG3	9:KD:380:ARG:HE	1.72	0.54
8:KG:231:ILE:HA	8:KG:234:ILE:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KI:265:ILE:HG21	8:KI:313:MET:HE1	1.88	0.54
8:KI:308:ARG:NH2	8:NI:282:TYR:OH	2.38	0.54
9:LD:279:GLN:NE2	29:R:69:MET:HE3	2.21	0.54
8:LE:139:HIS:NE2	8:LE:168:GLU:OE2	2.39	0.54
8:LE:175:PRO:HB3	8:LE:390:ARG:NE	2.22	0.54
9:LF:323:MET:HE2	8:LG:224:TYR:HE2	1.72	0.54
8:LK:311:LYS:H	8:LK:382:THR:HG22	1.72	0.54
8:LM:70:LEU:HB3	8:LM:98:ASP:HA	1.89	0.54
9:LN:10:GLY:O	9:LN:14:ASN:ND2	2.40	0.54
8:MC:254:GLU:OE1	8:MC:352:LYS:NZ	2.40	0.54
9:MD:336:LYS:O	43:i:44:THR:OG1	2.23	0.54
8:MM:70:LEU:HD12	8:MM:145:THR:HG22	1.88	0.54
15:N2:240:ARG:NH1	15:N2:245:LYS:HG3	2.22	0.54
8:NI:203:MET:N	8:NI:203:MET:SD	2.80	0.54
9:NL:147:MET:SD	9:NL:151:LEU:HD11	2.48	0.54
8:NO:326:LYS:HE3	9:NP:220:PRO:HD2	1.89	0.54
8:OA:377:MET:HE2	8:OA:377:MET:HA	1.90	0.54
8:OC:203:MET:HE2	8:OC:388:TRP:HE1	1.72	0.54
9:OD:306:ARG:HG3	9:OD:307:HIS:HD2	1.71	0.54
9:OH:294:PHE:HZ	36:Y4:89:ILE:HD13	1.72	0.54
9:OP:7:LEU:HG	9:OP:135:LEU:HD13	1.89	0.54
9:OP:372:THR:HA	9:OP:422:TYR:HE1	1.72	0.54
9:PF:150:LEU:HG	9:PF:154:LYS:HE2	1.89	0.54
9:PL:322:SER:OG	8:PM:222:PRO:O	2.22	0.54
8:QG:25:CYS:O	8:QG:30:ILE:N	2.41	0.54
9:QJ:249:ASP:H	9:QJ:252:LYS:HB2	1.71	0.54
9:QP:164:MET:SD	9:QP:196:THR:HA	2.47	0.54
9:QP:309:ARG:NH1	9:QP:343:GLU:OE1	2.41	0.54
8:RG:274:PRO:HD2	8:RG:275:VAL:HG13	1.89	0.54
9:RL:219:THR:O	9:RL:219:THR:OG1	2.24	0.54
12:S1:482:SER:OG	30:V8:358:GLN:OE1	2.21	0.54
9:SF:267:MET:HE1	9:SF:374:ILE:HD12	1.88	0.54
8:SG:1:MET:SD	8:SG:2:ARG:NH1	2.80	0.54
8:SG:9:VAL:HB	8:SG:139:HIS:HB3	1.88	0.54
8:SI:188:ILE:O	8:SI:191:THR:OG1	2.18	0.54
14:T1:16:SER:OG	14:T1:17:ILE:N	2.41	0.54
14:T1:243:HIS:ND1	14:T2:354:GLN:OE1	2.37	0.54
14:T2:179:GLU:HB2	14:T2:296:GLN:HE21	1.71	0.54
9:TB:150:LEU:HG	9:TB:154:LYS:HE2	1.89	0.54
8:TC:101:ASN:HD22	8:TC:143:GLY:HA2	1.72	0.54
9:TF:68:LEU:HB3	9:TF:96:GLY:HA2	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TF:102:ALA:HB1	9:TF:403:MET:HE1	1.89	0.54
30:U8:389:LEU:HB2	30:U8:423:ILE:HG21	1.89	0.54
9:UD:36:TYR:CG	9:UD:44:LEU:HD13	2.43	0.54
8:UE:2:ARG:NH1	8:UE:133:GLN:HB2	2.22	0.54
8:UE:151:SER:HA	8:UE:193:THR:HG21	1.87	0.54
8:UM:70:LEU:HB3	8:UM:98:ASP:HA	1.88	0.54
30:V1:310:MET:O	30:V1:314:SER:OG	2.25	0.54
30:V1:316:ARG:HH21	30:V1:320:GLU:HG3	1.73	0.54
9:VD:237:THR:HG22	9:VD:250:LEU:HD21	1.89	0.54
9:VH:3:GLU:OE2	9:VH:48:ASN:ND2	2.37	0.54
9:VH:86:ARG:HG2	9:VH:88:ASP:H	1.72	0.54
9:VH:253:LEU:O	9:VH:257:MET:HG2	2.07	0.54
9:VL:7:LEU:N	9:VL:134:GLN:O	2.39	0.54
9:WD:256:ASN:HD21	8:WE:181:VAL:H	1.55	0.54
31:X:172:PRO:HA	31:X:175:LYS:HG3	1.89	0.54
34:X6:240:CYS:O	34:X6:244:ILE:HD12	2.07	0.54
35:XC:50:GLU:HG3	35:XC:159:ASN:HA	1.90	0.54
37:YG:57:ARG:NH2	37:YG:102:GLU:OE2	2.40	0.54
39:a:223:GLU:O	39:a:226:ARG:NH2	2.40	0.54
39:b:447:GLU:HA	39:b:450:LEU:HG	1.89	0.54
43:j:193:ARG:NH2	43:j:244:ILE:O	2.41	0.54
43:k:207:VAL:HG13	43:k:230:LEU:HD22	1.88	0.54
2:2:408:THR:O	8:IM:372:GLN:NE2	2.40	0.54
2:2:455:ARG:HD2	8:IO:279:GLU:HG2	1.88	0.54
3:3:50:THR:HG23	8:KK:337:THR:HB	1.89	0.54
5:8:120:ASN:HD22	5:8:123:LYS:HB2	1.72	0.54
7:A4:109:LEU:HB2	7:A4:143:ILE:HG21	1.89	0.54
8:AE:93:ILE:HD11	8:AE:121:ARG:HG3	1.90	0.54
9:AH:406:MET:N	9:AH:406:MET:SD	2.80	0.54
8:AI:298:PRO:HB3	8:AI:307:PRO:HD2	1.88	0.54
9:AL:167:PHE:CD1	9:AL:233:MET:HG2	2.43	0.54
11:B1:257:GLN:O	11:B1:261:THR:HG23	2.08	0.54
11:B4:177:ARG:HD3	28:Q4:133:ARG:HG2	1.89	0.54
9:BF:247:ASN:O	9:BF:252:LYS:NZ	2.40	0.54
8:BK:251:ASP:OD1	8:BK:253:THR:N	2.36	0.54
8:BM:115:VAL:HG21	8:BM:152:LEU:HD21	1.90	0.54
8:BM:182:VAL:O	8:BM:186:ASN:ND2	2.41	0.54
9:BN:119:VAL:HA	9:BN:122:LYS:NZ	2.22	0.54
8:BO:218:ASP:OD1	17:N:236:TYR:N	2.38	0.54
12:C1:101:ARG:NH1	17:O9:81:LEU:O	2.41	0.54
8:CG:256:GLN:NE2	9:CH:397:TRP:HH2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CH:274:THR:HG21	9:CH:282:ARG:HD2	1.88	0.54
9:CJ:86:ARG:HG2	9:CJ:88:ASP:H	1.71	0.54
8:CM:317:MET:HE1	8:CM:319:TYR:CG	2.43	0.54
14:D4:257:TRP:O	14:D4:261:ASN:ND2	2.41	0.54
9:DB:257:MET:HB3	9:DB:266:PHE:CZ	2.43	0.54
9:DD:8:GLN:HB3	9:DD:65:LEU:HA	1.89	0.54
8:DI:211:ASP:HB3	8:DI:215:ARG:HH12	1.70	0.54
9:DP:7:LEU:N	9:DP:134:GLN:O	2.38	0.54
8:EE:132:LEU:O	8:EE:164:LYS:NZ	2.38	0.54
8:EI:346:TRP:HH2	8:EI:435:VAL:HA	1.73	0.54
8:EI:385:ALA:HB2	8:EI:432:TYR:HD2	1.72	0.54
8:EO:209:ILE:HD12	8:EO:209:ILE:H	1.73	0.54
9:FB:118:ASP:OD1	9:FB:121:ARG:NH2	2.39	0.54
8:FG:311:LYS:H	8:FG:382:THR:HG22	1.73	0.54
9:FH:257:MET:HE3	9:FH:314:ALA:HB2	1.90	0.54
9:FL:16:ILE:HD11	9:FL:229:VAL:HB	1.88	0.54
8:GA:2:ARG:HH22	9:GB:71:GLY:H	1.55	0.54
9:GB:122:LYS:HD3	9:GB:122:LYS:N	2.22	0.54
8:GG:31:GLN:HG2	8:GG:35:GLN:H	1.72	0.54
9:GL:7:LEU:HD23	9:GL:135:LEU:HB2	1.88	0.54
9:GL:256:ASN:HD21	8:GM:181:VAL:H	1.55	0.54
9:GN:372:THR:HG21	9:GN:426:GLN:HB2	1.89	0.54
9:HB:309:ARG:NH2	9:HB:339:SER:O	2.40	0.54
9:HF:337:ASN:ND2	49:y:130:ILE:HG21	2.21	0.54
8:HG:168:GLU:O	8:HG:201:ALA:HA	2.07	0.54
9:HL:403:MET:N	9:HL:403:MET:SD	2.80	0.54
8:HM:101:ASN:HA	8:HM:144:GLY:H	1.71	0.54
8:IC:324:VAL:HG12	8:IC:326:LYS:H	1.72	0.54
9:ID:130:LEU:O	9:ID:162:ARG:NH1	2.31	0.54
8:II:288:VAL:HG11	8:II:327:ASP:HB3	1.88	0.54
8:IM:107:HIS:HA	8:IM:152:LEU:HD23	1.89	0.54
8:IO:141:PHE:HB2	8:IO:173:PRO:HD3	1.88	0.54
9:JH:396:HIS:NE2	9:JH:397:TRP:CD2	2.76	0.54
9:JJ:257:MET:HB3	9:JJ:266:PHE:HZ	1.71	0.54
8:JK:103:TYR:HE2	8:JK:148:GLY:HA2	1.71	0.54
8:JK:210:TYR:CE1	8:JK:227:LEU:HD11	2.43	0.54
9:JN:130:LEU:O	9:JN:162:ARG:NH1	2.39	0.54
8:JO:275:VAL:HG12	8:JO:368:LEU:HD11	1.89	0.54
8:JQ:116:ASP:N	8:JQ:116:ASP:OD1	2.39	0.54
8:KA:191:THR:HA	8:KA:194:THR:HG22	1.89	0.54
8:KG:206:ASN:OD1	50:KG:501:GTP:N2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KH:164:MET:N	9:KH:197:ASP:OD2	2.40	0.54
9:LB:166:THR:HG23	9:LB:199:THR:HG23	1.90	0.54
9:LB:375:GLN:HA	9:LB:378:PHE:HD2	1.72	0.54
8:LG:68:VAL:HG12	8:LG:93:ILE:HB	1.90	0.54
8:LM:85:GLN:O	8:MM:283:HIS:NE2	2.40	0.54
8:LO:51:THR:HG21	8:LO:243:ARG:HG2	1.89	0.54
8:LO:262:TYR:OH	9:LP:391:ARG:O	2.22	0.54
8:MC:70:LEU:HB3	8:MC:98:ASP:HA	1.89	0.54
9:MD:48:ASN:O	9:MD:62:ARG:NH2	2.40	0.54
9:MH:205:GLU:HA	9:MH:208:TYR:HD2	1.72	0.54
8:MM:226:ASN:ND2	8:MM:367:ASP:OD2	2.40	0.54
17:N:9:LEU:HD23	31:Z:427:PHE:CE2	2.42	0.54
8:NA:186:ASN:OD1	8:NA:408:TYR:OH	2.25	0.54
9:NB:325:GLU:OE1	8:NC:221:ARG:NH1	2.40	0.54
8:NE:137:ILE:HG22	8:NE:167:LEU:O	2.07	0.54
9:NF:324:LYS:HD2	8:NG:222:PRO:HD2	1.89	0.54
8:NK:212:ILE:HD11	8:NK:300:ASN:HA	1.88	0.54
9:NP:309:ARG:HG3	9:NP:426:GLN:HG3	1.89	0.54
24:O1:92:HIS:HD2	24:O1:96:MET:HE1	1.72	0.54
8:OA:165:SER:HB3	8:OA:256:GLN:HE22	1.73	0.54
9:OD:60:VAL:HG11	9:OD:86:ARG:HH21	1.72	0.54
8:OE:219:ILE:HB	8:OE:222:PRO:HG3	1.90	0.54
9:OF:54:ALA:HA	9:PF:283:ALA:HB2	1.89	0.54
9:OF:306:ARG:HH22	36:Y4:125:SER:C	2.15	0.54
9:OJ:253:LEU:O	9:OJ:257:MET:HG3	2.08	0.54
8:OM:1:MET:SD	8:OM:2:ARG:N	2.80	0.54
9:OP:207:LEU:HG	9:OP:228:LEU:HD21	1.88	0.54
9:PH:182:PRO:HB3	9:PH:381:ILE:HG23	1.89	0.54
9:PJ:317:PHE:HB2	9:PJ:353:VAL:HG22	1.89	0.54
9:QF:118:ASP:OD1	9:QF:121:ARG:NH2	2.38	0.54
9:QF:128:ASP:OD2	8:QG:96:LYS:NZ	2.36	0.54
9:QF:130:LEU:O	9:QF:162:ARG:NH1	2.39	0.54
9:QJ:7:LEU:N	9:QJ:134:GLN:O	2.37	0.54
9:QP:86:ARG:NH2	9:RP:281:TYR:O	2.40	0.54
11:R4:74:TRP:HZ2	11:R4:223:ARG:HH21	1.55	0.54
9:RL:20:PHE:CZ	9:RL:24:ILE:HD13	2.41	0.54
9:RL:257:MET:HE3	9:RL:314:ALA:HB2	1.87	0.54
9:RP:331:LEU:O	9:RP:335:ASN:ND2	2.41	0.54
29:S:152:ARG:O	29:S:156:LYS:HG2	2.07	0.54
12:S1:293:THR:HG21	12:S2:413:ARG:HB2	1.90	0.54
12:S7:391:ALA:HA	12:S7:394:LYS:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S8:177:ILE:HD13	12:S8:326:GLU:OE1	2.08	0.54
8:SC:395:PHE:HA	8:SC:398:MET:HG2	1.89	0.54
9:SH:172:SER:OG	9:SH:205:GLU:OE1	2.24	0.54
8:SM:338:LYS:HE2	8:SM:340:THR:HB	1.87	0.54
9:SN:114:ASP:N	9:SN:114:ASP:OD1	2.39	0.54
9:TF:270:PHE:HB3	9:TF:273:LEU:HD21	1.90	0.54
30:U2:389:LEU:HB2	30:U2:423:ILE:HG21	1.89	0.54
9:UB:142:GLY:N	52:UB:502:GDP:O3B	2.36	0.54
8:UC:28:HIS:HE2	8:UC:49:PHE:HD1	1.56	0.54
9:UD:229:VAL:HG12	9:UD:233:MET:HE2	1.89	0.54
8:UE:328:VAL:HG21	8:UE:355:ILE:HD11	1.90	0.54
30:V2:396:LEU:HD13	30:V3:284:GLU:HA	1.90	0.54
30:V3:396:LEU:HD13	30:V4:284:GLU:HB2	1.88	0.54
8:VA:154:MET:HE1	8:VA:197:HIS:CB	2.37	0.54
9:VB:83:GLN:HG3	43:h:209:LYS:HZ2	1.72	0.54
9:VD:3:GLU:OE2	9:VD:48:ASN:ND2	2.39	0.54
8:VG:206:ASN:HB3	8:VG:210:TYR:CZ	2.42	0.54
8:VM:88:HIS:HB3	8:VM:91:GLN:HG2	1.90	0.54
9:VN:412:GLU:HA	9:VN:415:MET:SD	2.47	0.54
30:W0:195:LEU:HA	30:W0:215:LEU:HD13	1.88	0.54
30:W2:221:LEU:HD23	30:W2:222:LEU:HD23	1.89	0.54
8:WA:104:ALA:HA	8:WA:413:MET:CE	2.38	0.54
8:WE:324:VAL:HG12	8:WE:326:LYS:H	1.73	0.54
9:WF:215:LEU:HD12	9:WF:275:SER:HA	1.89	0.54
9:WH:170:VAL:HG11	9:WH:377:LEU:HD21	1.88	0.54
34:X7:7:LEU:HG	34:X7:12:TYR:HD2	1.72	0.54
37:YA:88:ASP:H	37:YA:92:TYR:HE2	1.53	0.54
37:YH:109:PHE:HD1	37:YH:112:ARG:HH22	1.55	0.54
39:a:190:GLU:HB3	39:a:194:MET:HE3	1.89	0.54
41:b3:181:LEU:HD11	41:b3:481:VAL:HG21	1.89	0.54
41:b3:242:LEU:HD11	41:b3:252:LEU:HD11	1.89	0.54
42:e:337:ASP:HB2	42:e:380:ILE:HG22	1.89	0.54
47:p:463:LYS:HB3	47:p:467:LYS:NZ	2.22	0.54
48:s:87:LYS:HB3	48:s:91:GLU:HB2	1.89	0.54
1:7:100:LEU:HG	1:7:101:VAL:HG23	1.90	0.54
8:AG:202:PHE:CE1	8:AG:378:LEU:HD11	2.43	0.54
8:AG:283:HIS:HD2	8:MG:88:HIS:HA	1.71	0.54
9:AL:385:PHE:HZ	9:AL:408:PHE:HB3	1.72	0.54
11:B1:169:ARG:HH12	28:Q1:120:ASP:CG	2.16	0.54
8:BC:264:ARG:NH1	8:BC:431:ASP:OD2	2.39	0.54
8:BE:70:LEU:HD13	8:BE:95:GLY:HA3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BO:53:PHE:HB3	8:BO:61:HIS:HB3	1.90	0.54
12:C0:121:ARG:NE	12:C1:374:GLN:OE1	2.40	0.54
12:C1:81:LEU:HG	12:C1:83:PHE:HD1	1.70	0.54
12:C1:83:PHE:CD2	12:C2:200:PHE:HB2	2.43	0.54
12:C4:382:ILE:HG21	12:C4:438:LEU:HB2	1.90	0.54
9:CF:239:CYS:SG	9:CF:248:ALA:N	2.81	0.54
8:CK:287:SER:OG	8:CK:290:GLU:OE1	2.23	0.54
8:CM:326:LYS:HZ3	9:CN:220:PRO:N	2.05	0.54
9:CP:257:MET:SD	9:CP:312:THR:OG1	2.58	0.54
8:CQ:88:HIS:HE2	8:DQ:284:GLU:HG2	1.72	0.54
14:D2:154:ASP:N	28:Q2:116:MET:HE1	2.22	0.54
8:DG:108:TYR:HA	8:DG:112:LYS:HE3	1.90	0.54
9:DH:164:MET:HA	9:DH:164:MET:HE2	1.88	0.54
8:DK:82:THR:HG23	17:L:59:MET:HA	1.88	0.54
9:DN:306:ARG:HA	9:DN:340:TYR:HE2	1.72	0.54
8:DO:213:CYS:HA	8:DO:217:LEU:HD12	1.89	0.54
8:EC:292:THR:HG21	8:EC:331:ALA:HB1	1.88	0.54
9:EF:11:GLN:HG3	9:EF:72:THR:HG21	1.90	0.54
9:EF:35:THR:HG22	9:EF:58:LYS:HE3	1.89	0.54
8:EK:186:ASN:O	8:EK:190:THR:OG1	2.24	0.54
8:EM:399:TYR:O	8:EM:402:ARG:NH1	2.35	0.54
9:EN:239:CYS:SG	9:EN:248:ALA:N	2.81	0.54
8:EO:276:ILE:HD11	8:EO:286:LEU:HD11	1.88	0.54
8:FA:297:GLU:O	8:FA:301:GLN:NE2	2.35	0.54
9:FB:252:LYS:HD3	8:FC:100:ALA:HA	1.89	0.54
8:FM:3:GLU:OE2	8:FM:64:ARG:NH2	2.40	0.54
8:GC:253:THR:O	8:GC:256:GLN:NE2	2.41	0.54
9:GD:136:THR:HG22	9:GD:167:PHE:HB2	1.90	0.54
9:GF:73:MET:HA	9:GF:76:VAL:HB	1.88	0.54
9:GH:83:GLN:O	9:HH:281:TYR:OH	2.26	0.54
8:GM:155:GLU:HG2	8:GM:197:HIS:HD2	1.72	0.54
9:GN:45:GLU:O	9:GN:46:ARG:NH1	2.41	0.54
9:HB:376:GLU:O	9:HB:380:ARG:HG2	2.07	0.54
9:HH:91:VAL:HG11	9:HH:116:VAL:HG12	1.89	0.54
9:HJ:131:GLN:HE22	9:HJ:250:LEU:HD12	1.73	0.54
9:HJ:205:GLU:HA	9:HJ:208:TYR:CD2	2.42	0.54
9:HJ:323:MET:HE1	8:HK:224:TYR:CD1	2.42	0.54
8:HK:195:LEU:HD11	8:HK:264:ARG:HD2	1.89	0.54
8:HM:151:SER:HA	8:HM:193:THR:HG21	1.89	0.54
9:HN:238:THR:HG21	9:HN:318:ARG:HD2	1.89	0.54
8:IG:351:PHE:C	8:IG:352:LYS:HD2	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J3:236:TRP:NE1	19:J3:238:MET:SD	2.81	0.54
9:JB:401:GLU:HB3	9:JB:403:MET:HE2	1.89	0.54
8:JG:431:ASP:N	8:JG:431:ASP:OD1	2.38	0.54
9:JJ:73:MET:HE3	9:JJ:92:PHE:HB3	1.89	0.54
9:JN:109:GLY:HA2	9:JN:147:MET:HE3	1.88	0.54
8:JO:306:ASP:OD2	8:JO:308:ARG:NH1	2.40	0.54
8:KG:201:ALA:HB3	8:KG:267:PHE:HA	1.90	0.54
8:LA:49:PHE:HB2	8:LA:53:PHE:HD2	1.71	0.54
8:LK:3:GLU:HB3	8:LK:132:LEU:HA	1.90	0.54
9:LN:51:TYR:O	9:LN:62:ARG:NH2	2.41	0.54
8:MC:35:GLN:N	8:MC:35:GLN:OE1	2.41	0.54
9:MH:257:MET:HE1	9:MH:313:VAL:C	2.33	0.54
9:ML:310:TYR:HE2	43:k:49:MET:HE1	1.72	0.54
9:MP:309:ARG:HG3	9:MP:426:GLN:HG3	1.88	0.54
8:NA:141:PHE:HB2	8:NA:173:PRO:HD3	1.88	0.54
9:NB:361:LEU:HD12	9:NB:362:LYS:N	2.22	0.54
8:NC:9:VAL:HG11	8:NC:150:ALA:HB2	1.89	0.54
9:NH:5:VAL:HG22	9:NH:62:ARG:HD2	1.89	0.54
9:NH:166:THR:HG23	9:NH:199:THR:HG23	1.89	0.54
9:OB:127:CYS:HB2	9:OB:130:LEU:HG	1.88	0.54
9:OH:167:PHE:CE1	9:OH:233:MET:HG2	2.43	0.54
8:OI:89:PRO:HD2	8:PI:280:LYS:HZ3	1.72	0.54
8:OI:186:ASN:O	8:OI:190:THR:OG1	2.23	0.54
8:OM:9:VAL:HG11	8:OM:150:ALA:HB2	1.88	0.54
8:OO:297:GLU:O	8:OO:301:GLN:NE2	2.39	0.54
27:P3:81:LEU:O	25:T:206:LYS:NZ	2.39	0.54
9:PD:309:ARG:NH2	9:PD:339:SER:O	2.39	0.54
8:PM:137:ILE:HB	8:PM:168:GLU:OE2	2.08	0.54
8:PO:53:PHE:O	8:PO:64:ARG:NH1	2.41	0.54
9:PP:130:LEU:O	9:PP:162:ARG:NH1	2.37	0.54
28:Q2:168:PRO:O	12:S6:121:ARG:NH2	2.40	0.54
9:QF:8:GLN:HE21	9:QF:14:ASN:HA	1.72	0.54
9:QN:184:ASN:OD1	9:QN:398:TYR:OH	2.24	0.54
9:QP:60:VAL:HG21	9:RP:281:TYR:HB3	1.89	0.54
9:QP:83:GLN:O	9:RP:281:TYR:OH	2.24	0.54
11:R4:355:LYS:HD2	11:R5:41:GLU:OE2	2.08	0.54
8:RM:60:LYS:HZ1	8:SK:283:HIS:HA	1.72	0.54
29:S:122:LEU:HB2	29:S:132:ARG:HH12	1.73	0.54
12:S5:104:LEU:O	12:S5:108:GLN:HG2	2.08	0.54
12:S7:192:LEU:HB2	12:S7:226:ILE:HG21	1.89	0.54
9:SB:156:ARG:NH1	9:SB:197:ASP:OD1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SG:413:MET:HE1	8:SG:417:GLU:HB2	1.89	0.54
9:SJ:235:GLY:HA3	9:SJ:366:THR:HG21	1.88	0.54
9:SN:26:ASP:HB3	9:SN:359:ARG:HE	1.72	0.54
9:TJ:313:VAL:HG13	9:TJ:367:PHE:HE1	1.73	0.54
30:U8:172:THR:O	30:U8:176:ARG:HG3	2.07	0.54
8:UG:107:HIS:HA	8:UG:152:LEU:HD23	1.90	0.54
8:UK:288:VAL:O	8:UK:292:THR:HG22	2.08	0.54
9:UN:136:THR:HG22	9:UN:167:PHE:HB2	1.90	0.54
8:UO:53:PHE:HB3	8:UO:61:HIS:HB3	1.88	0.54
8:VA:171:ILE:HD13	8:VA:204:VAL:HG13	1.88	0.54
9:VD:293:MET:HE3	9:VD:367:PHE:CG	2.43	0.54
8:VG:108:TYR:HA	8:VG:112:LYS:HE2	1.88	0.54
8:VM:276:ILE:HG23	8:VM:280:LYS:HE3	1.89	0.54
8:VO:23:LEU:HD12	8:VO:26:LEU:HD11	1.90	0.54
31:W:526:ASP:HB3	31:W:529:THR:HG23	1.89	0.54
8:WA:111:GLY:O	8:WA:115:VAL:HG23	2.08	0.54
9:WL:51:TYR:HB3	9:WL:59:TYR:HB3	1.88	0.54
8:WM:68:VAL:HG12	8:WM:93:ILE:HB	1.90	0.54
35:XA:102:ARG:HE	35:XA:118:ILE:HB	1.71	0.54
35:XC:126:ASP:OD1	35:XC:126:ASP:N	2.40	0.54
35:XG:36:ARG:HG2	35:XG:45:LEU:HD11	1.89	0.54
35:XH:29:VAL:HG22	35:XH:57:THR:HG23	1.90	0.54
41:b2:311:LEU:HA	41:b2:314:MET:HE2	1.89	0.54
42:e:63:HIS:HD1	42:e:94:ILE:HD12	1.73	0.54
46:i4:1367:VAL:HG13	46:i4:1372:LEU:HB2	1.90	0.54
2:1:601:ILE:HB	2:1:637:ILE:HB	1.89	0.54
2:1:721:THR:HG22	9:IF:320:ARG:HD3	1.90	0.54
2:2:470:ILE:O	8:IO:373:ARG:NH2	2.39	0.54
4:5:235:ARG:NE	4:5:236:GLU:OE2	2.40	0.54
7:A4:12:LEU:HG	7:A4:13:PRO:HD2	1.89	0.54
7:A5:160:GLN:OE1	7:A5:231:GLN:NE2	2.41	0.54
8:AC:200:CYS:HA	8:AC:266:HIS:HB2	1.88	0.54
8:AE:402:ARG:NE	8:AE:415:GLU:OE2	2.37	0.54
9:AL:78:SER:OG	31:Y:132:ARG:N	2.41	0.54
9:AP:423:GLN:HG2	37:YH:45:ALA:HB2	1.89	0.54
10:B:20:GLU:HB3	10:B:23:ARG:HH21	1.73	0.54
8:BC:219:ILE:HG23	8:BC:222:PRO:HG3	1.89	0.54
8:BE:292:THR:HG21	8:BE:331:ALA:HB1	1.89	0.54
9:BL:165:ASN:ND2	9:BL:198:GLU:OE2	2.41	0.54
12:C0:87:ARG:HG3	17:O8:184:ASP:OD1	2.07	0.54
12:C4:188:THR:HG22	12:C4:336:MET:HE1	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CH:156:ARG:HG3	9:CH:195:ASN:HB3	1.89	0.54
9:CH:226:ASN:OD1	52:CH:502:GDP:N1	2.37	0.54
8:CI:265:ILE:HG21	8:CI:313:MET:HE1	1.89	0.54
8:CK:44:GLY:HA3	31:Y:263:ARG:NH2	2.22	0.54
8:CK:71:GLU:HB3	8:CK:98:ASP:HB3	1.90	0.54
9:CL:131:GLN:NE2	9:CL:249:ASP:OD2	2.37	0.54
9:CL:182:PRO:HG3	9:CL:384:GLN:HG3	1.90	0.54
9:CN:72:THR:O	9:CN:75:SER:OG	2.23	0.54
14:D5:341:GLN:NE2	14:D5:341:GLN:O	2.39	0.54
8:DC:183:GLU:HA	8:DC:186:ASN:HD22	1.71	0.54
9:EH:61:PRO:HD3	9:EH:84:ILE:HG13	1.89	0.54
9:EH:390:ARG:HH22	9:EH:391:ARG:HE	1.56	0.54
8:EM:345:ASP:N	8:EM:345:ASP:OD1	2.37	0.54
9:EN:177:ASP:OD2	9:EN:177:ASP:N	2.40	0.54
8:FC:360:PRO:O	8:FC:370:LYS:NZ	2.35	0.54
9:FD:429:THR:O	8:FE:401:LYS:NZ	2.41	0.54
8:FE:116:ASP:HB2	36:Y2:223:PRO:HB2	1.89	0.54
8:GA:302:MET:SD	8:GA:302:MET:N	2.73	0.54
9:GN:380:ARG:O	9:GN:384:GLN:NE2	2.27	0.54
9:GN:428:ALA:HB1	8:GO:401:LYS:HE3	1.89	0.54
8:GO:139:HIS:O	8:GO:170:ALA:HA	2.08	0.54
8:HA:102:ASN:HB3	8:HA:105:ARG:HB2	1.88	0.54
9:HB:10:GLY:O	9:HB:14:ASN:N	2.36	0.54
9:HD:285:THR:HB	9:HD:287:PRO:HD2	1.90	0.54
8:HG:113:GLU:OE1	8:HG:113:GLU:N	2.41	0.54
9:HL:54:ALA:HA	9:IL:283:ALA:HB2	1.89	0.54
9:HN:350:LYS:HD3	8:HO:181:VAL:HB	1.89	0.54
9:IB:21:TRP:HA	9:IB:24:ILE:HD11	1.89	0.54
9:IB:54:ALA:HB3	9:IB:58:LYS:HB3	1.89	0.54
8:IE:107:HIS:HA	8:IE:152:LEU:HD23	1.89	0.54
8:IE:215:ARG:NH2	8:IE:299:ALA:O	2.41	0.54
9:IH:331:LEU:O	9:IH:335:ASN:ND2	2.40	0.54
8:IM:234:ILE:O	8:IM:238:ILE:HG12	2.07	0.54
8:IO:154:MET:SD	8:IO:166:LYS:HD3	2.47	0.54
8:IO:189:LEU:O	8:IO:192:HIS:ND1	2.41	0.54
8:JC:264:ARG:NH1	8:JC:431:ASP:OD2	2.41	0.54
9:JL:249:ASP:OD1	9:JL:252:LYS:N	2.36	0.54
9:JL:316:VAL:HG22	9:JL:352:ALA:HB3	1.89	0.54
8:KC:6:SER:HB3	8:KC:8:HIS:NE2	2.22	0.54
8:KG:183:GLU:HA	8:KG:186:ASN:HD22	1.73	0.54
9:KJ:270:PHE:HB3	9:KJ:273:LEU:HD11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KP:8:GLN:HG2	9:KP:65:LEU:HD12	1.88	0.54
8:LA:53:PHE:O	8:LA:64:ARG:NH1	2.40	0.54
9:LB:177:ASP:N	9:LB:177:ASP:OD1	2.36	0.54
9:LH:412:GLU:O	9:LH:416:ASN:ND2	2.37	0.54
9:LN:196:THR:HG21	9:LN:199:THR:HG22	1.88	0.54
8:LO:116:ASP:N	8:LO:116:ASP:OD1	2.40	0.54
9:LP:285:THR:HB	9:LP:287:PRO:HD2	1.90	0.54
22:M1:187:GLN:N	22:M1:187:GLN:OE1	2.40	0.54
9:MD:45:GLU:OE2	9:MD:46:ARG:NH2	2.37	0.54
8:MG:66:VAL:HG22	8:MG:121:ARG:HH22	1.72	0.54
8:MO:186:ASN:O	8:MO:190:THR:OG1	2.24	0.54
8:NA:108:TYR:HA	8:NA:112:LYS:HE3	1.89	0.54
9:NF:213:ARG:NH2	9:NF:214:THR:OG1	2.41	0.54
8:NG:30:ILE:HD12	8:NG:30:ILE:H	1.73	0.54
9:NN:131:GLN:OE1	9:NN:251:ARG:NH2	2.32	0.54
8:NO:65:ALA:HB3	8:NO:87:PHE:HE2	1.72	0.54
8:OC:53:PHE:HB3	8:OC:61:HIS:HB3	1.89	0.54
9:OH:198:GLU:HB2	9:OH:266:PHE:HE2	1.73	0.54
8:OK:288:VAL:O	8:OK:292:THR:HG22	2.07	0.54
8:OO:254:GLU:OE1	8:OO:254:GLU:N	2.36	0.54
26:P2:13:HIS:HB2	26:P2:16:GLN:HB2	1.89	0.54
27:P5:86:PHE:O	27:P5:87:PHE:CG	2.60	0.54
9:PD:124:ALA:HA	9:PD:130:LEU:HD11	1.89	0.54
9:PH:147:MET:HE1	9:PH:150:LEU:HD23	1.90	0.54
8:PK:319:TYR:HB3	8:PK:323:VAL:HG21	1.89	0.54
9:QL:271:ALA:HB1	9:QL:289:LEU:HD22	1.90	0.54
9:QP:130:LEU:O	9:QP:162:ARG:NH1	2.38	0.54
8:RC:171:ILE:HD13	8:RC:204:VAL:HG13	1.90	0.54
8:RM:367:ASP:N	8:RM:367:ASP:OD1	2.39	0.54
9:RP:8:GLN:HB3	9:RP:65:LEU:HA	1.89	0.54
12:S1:39:HIS:CD2	12:S1:40:ARG:HG3	2.43	0.54
12:S1:281:VAL:HA	12:S2:398:THR:HG21	1.87	0.54
12:S3:145:ASN:HB2	12:S4:419:ARG:NH2	2.23	0.54
8:SA:68:VAL:HG12	8:SA:93:ILE:HB	1.89	0.54
9:SF:325:GLU:H	8:SG:221:ARG:NH2	2.06	0.54
9:SH:415:MET:HA	9:SH:418:LEU:HB2	1.90	0.54
8:SI:402:ARG:HD3	8:SI:405:VAL:HG21	1.89	0.54
9:SL:327:ASP:HA	9:SL:330:MET:HE3	1.89	0.54
14:T4:159:ARG:NH2	14:T4:170:ASP:OD2	2.31	0.54
9:TH:7:LEU:N	9:TH:134:GLN:O	2.39	0.54
9:TN:180:VAL:HA	9:TN:388:MET:HE1	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U6:376:MET:SD	30:U6:377:LEU:HD23	2.47	0.54
9:UB:252:LYS:HE2	8:UC:100:ALA:HA	1.88	0.54
8:UE:60:LYS:NZ	8:VE:283:HIS:HA	2.22	0.54
9:UH:345:ILE:HA	8:UI:398:MET:HE1	1.90	0.54
30:V0:209:ASP:OD1	30:V0:209:ASP:N	2.39	0.54
30:V2:210:ASN:O	30:V2:214:ASN:ND2	2.40	0.54
9:VB:337:ASN:HB3	9:VB:340:TYR:HD2	1.72	0.54
8:VE:188:ILE:O	8:VE:191:THR:OG1	2.25	0.54
8:VI:7:ILE:HD11	8:VI:122:ILE:HD11	1.90	0.54
8:VI:121:ARG:O	8:VI:125:LEU:HD12	2.08	0.54
30:W7:166:GLU:HG2	30:W7:311:ARG:HG2	1.88	0.54
8:WK:34:GLY:HA3	8:WK:60:LYS:HE3	1.89	0.54
8:WM:7:ILE:HD11	8:WM:135:PHE:HB3	1.89	0.54
8:WM:70:LEU:HB3	8:WM:98:ASP:HA	1.89	0.54
8:WO:298:PRO:HA	8:WO:301:GLN:HG2	1.90	0.54
31:Y:492:GLU:O	31:Y:495:LYS:NZ	2.36	0.54
36:Y1:177:HIS:O	36:Y1:178:LYS:HE2	2.08	0.54
37:YB:68:ALA:HB3	37:YB:79:ALA:HB3	1.88	0.54
39:c:233:GLU:OE1	39:c:236:ARG:NH1	2.41	0.54
39:d:487:GLN:O	39:d:491:GLN:HG2	2.07	0.54
42:f:83:GLN:NE2	42:f:92:ASP:OD2	2.41	0.54
3:3:87:MET:O	3:3:91:VAL:HG23	2.07	0.54
7:A3:334:GLN:O	7:A3:338:ILE:HG12	2.06	0.54
9:AF:184:ASN:O	9:AF:188:SER:OG	2.21	0.54
8:AG:207:GLU:CD	8:AG:304:LYS:HD2	2.32	0.54
8:BE:37:PRO:HG2	8:BE:40:LYS:HD3	1.90	0.54
9:BF:163:ILE:HG12	9:BF:251:ARG:HH21	1.72	0.54
12:C3:86:ASN:O	30:W7:58:LYS:NZ	2.38	0.54
9:CB:184:ASN:OD1	9:CB:398:TYR:OH	2.24	0.54
9:CF:358:PRO:HG2	9:CF:361:LEU:HB3	1.90	0.54
8:CM:439:SER:HB2	9:CN:390:ARG:HH21	1.72	0.54
14:D4:192:ARG:O	14:D4:196:GLN:HG2	2.08	0.54
8:DC:186:ASN:O	8:DC:190:THR:OG1	2.22	0.54
9:DD:322:SER:OG	8:DE:222:PRO:O	2.25	0.54
8:DE:68:VAL:HG12	8:DE:93:ILE:HB	1.89	0.54
9:DH:184:ASN:OD1	9:DH:398:TYR:OH	2.23	0.54
9:DJ:282:ARG:HG2	9:DJ:284:LEU:HD22	1.90	0.54
8:EC:295:CYS:HB3	8:EC:377:MET:SD	2.46	0.54
9:ED:87:PRO:HD2	9:FD:281:TYR:CZ	2.43	0.54
8:EM:70:LEU:HD23	8:EM:145:THR:HG23	1.89	0.54
8:EO:36:MET:HE3	8:EO:36:MET:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FA:123:ARG:HH22	36:Y3:67:GLY:C	2.15	0.54
8:FG:12:ALA:O	8:FG:16:ILE:HG12	2.08	0.54
8:FO:172:TYR:N	8:FO:204:VAL:O	2.39	0.54
9:GB:350:LYS:NZ	8:GC:180:ALA:HA	2.23	0.54
9:GD:8:GLN:HE21	9:GD:14:ASN:HA	1.72	0.54
8:GE:234:ILE:O	8:GE:237:SER:OG	2.22	0.54
9:GF:31:ASP:OD1	9:GF:35:THR:N	2.41	0.54
9:GH:70:PRO:HA	9:GH:73:MET:HE2	1.88	0.54
9:GH:207:LEU:HD13	9:GH:225:LEU:HB3	1.90	0.54
8:GM:26:LEU:HD23	8:GM:363:VAL:HG22	1.90	0.54
9:HB:128:ASP:O	36:Y0:47:ARG:NH2	2.39	0.54
9:HH:161:ASP:OD1	9:HH:161:ASP:N	2.35	0.54
9:HL:222:TYR:O	9:HL:226:ASN:ND2	2.41	0.54
8:IA:259:LEU:HD13	8:IA:268:PRO:HG2	1.88	0.54
9:IH:30:ILE:HD11	9:IH:47:ILE:HD11	1.89	0.54
8:II:9:VAL:HG23	8:II:139:HIS:HB3	1.89	0.54
8:IK:139:HIS:O	8:IK:170:ALA:HA	2.07	0.54
9:IL:262:ARG:NH2	9:IL:417:ASP:OD2	2.41	0.54
17:J:16:TYR:HB2	17:J:39:THR:HG21	1.89	0.54
19:J1:251:PHE:HB2	19:J1:257:ARG:HG2	1.90	0.54
19:J2:28:ILE:HB	19:J2:80:GLY:HA3	1.90	0.54
19:J4:57:MET:HA	19:J4:63:ILE:HG13	1.90	0.54
9:JD:285:THR:HG22	9:JD:288:GLU:OE1	2.08	0.54
8:JI:3:GLU:OE2	8:JI:64:ARG:NH2	2.41	0.54
8:JK:262:TYR:OH	9:JL:391:ARG:O	2.25	0.54
9:JN:234:SER:O	9:JN:241:ARG:NH2	2.40	0.54
9:KB:164:MET:N	9:KB:197:ASP:OD2	2.41	0.54
9:KD:286:VAL:HG22	9:KD:321:MET:HE2	1.88	0.54
9:KF:51:TYR:O	9:KF:62:ARG:NH2	2.41	0.54
8:KI:27:GLU:OE2	8:KI:243:ARG:NH2	2.41	0.54
9:KJ:414:ASN:HD22	41:b4:254:LYS:HZ2	1.56	0.54
8:KK:108:TYR:OH	41:b4:156:ARG:NH2	2.35	0.54
8:KK:132:LEU:O	8:KK:164:LYS:NZ	2.39	0.54
9:KP:376:GLU:N	9:KP:376:GLU:OE1	2.41	0.54
21:L1:109:ASP:HB2	9:VF:53:GLU:HB2	1.89	0.54
9:LF:324:LYS:HE3	8:LG:210:TYR:CD1	2.42	0.54
9:LH:252:LYS:NZ	50:LI:501:GTP:O3G	2.28	0.54
8:LI:339:ARG:NH1	41:b3:380:GLY:O	2.41	0.54
8:LK:49:PHE:HB2	8:LK:53:PHE:HD2	1.72	0.54
8:LK:183:GLU:HA	8:LK:186:ASN:HD22	1.72	0.54
9:LN:237:THR:HG22	9:LN:250:LEU:HD21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LO:96:LYS:HG2	43:k:131:GLY:HA3	1.87	0.54
8:MK:53:PHE:O	8:MK:64:ARG:NH1	2.40	0.54
9:MN:1:MET:SD	9:MN:2:ARG:N	2.81	0.54
8:MO:35:GLN:HE21	8:MO:60:LYS:HG3	1.72	0.54
8:NA:3:GLU:HA	8:NA:51:THR:HA	1.89	0.54
9:NF:49:VAL:HG11	9:NF:240:LEU:HD21	1.88	0.54
9:NF:325:GLU:HA	9:NF:328:GLU:HG2	1.89	0.54
8:NG:326:LYS:HE3	9:NH:208:TYR:CD2	2.43	0.54
8:NM:346:TRP:HZ2	8:NM:435:VAL:HG23	1.71	0.54
9:NN:318:ARG:HD3	9:NN:358:PRO:HD3	1.89	0.54
9:NN:372:THR:HA	9:NN:422:TYR:HE1	1.73	0.54
9:OF:163:ILE:HD12	9:OF:250:LEU:HB2	1.90	0.54
8:OK:132:LEU:O	8:OK:164:LYS:NZ	2.36	0.54
8:OK:331:ALA:O	8:OK:335:ILE:HG12	2.08	0.54
9:OL:308:GLY:HA3	9:OL:372:THR:HB	1.89	0.54
9:OL:309:ARG:HG3	9:OL:426:GLN:HG3	1.88	0.54
8:OO:154:MET:SD	8:OO:197:HIS:HB3	2.48	0.54
27:P6:17:TYR:HB2	40:a3:6:THR:HG23	1.89	0.54
8:PC:132:LEU:O	8:PC:164:LYS:NZ	2.38	0.54
8:PE:204:VAL:HG13	8:PE:302:MET:HG3	1.88	0.54
9:PH:282:ARG:NH1	9:PH:283:ALA:O	2.41	0.54
8:PI:141:PHE:HD2	8:PI:173:PRO:HD3	1.73	0.54
9:QD:222:TYR:HA	9:QD:225:LEU:HD13	1.89	0.54
9:QH:16:ILE:HD13	9:QH:229:VAL:HG11	1.88	0.54
8:QI:88:HIS:CE1	8:RI:283:HIS:HD2	2.26	0.54
8:QI:353:VAL:HB	9:QJ:177:ASP:HB2	1.88	0.54
8:RE:36:MET:HA	8:RE:36:MET:HE2	1.90	0.54
9:RF:273:LEU:O	9:RF:292:GLN:NE2	2.40	0.54
8:SC:384:ILE:HG12	8:SC:388:TRP:HE1	1.72	0.54
8:SI:311:LYS:H	8:SI:382:THR:HG22	1.72	0.54
9:SL:281:TYR:O	9:SL:282:ARG:NE	2.40	0.54
9:SL:313:VAL:HB	9:SL:349:VAL:HA	1.89	0.54
9:SN:41:ASP:N	9:SN:41:ASP:OD1	2.39	0.54
14:T1:166:ASP:O	14:T1:168:VAL:HG12	2.08	0.54
14:T5:363:ARG:NH1	14:T5:369:CYS:SG	2.77	0.54
8:TA:68:VAL:HG12	8:TA:93:ILE:HB	1.88	0.54
8:TA:138:PHE:HA	8:TA:169:PHE:O	2.08	0.54
8:TG:180:ALA:HB3	8:TG:183:GLU:HB3	1.90	0.54
8:TI:298:PRO:HA	8:TI:301:GLN:HG2	1.90	0.54
8:UG:3:GLU:OE2	8:UG:64:ARG:NH2	2.41	0.54
8:UG:172:TYR:HB2	8:UG:203:MET:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UG:370:LYS:HZ1	39:c:315:ILE:HA	1.73	0.54
8:UK:88:HIS:HE2	8:VK:284:GLU:CD	2.14	0.54
9:UL:2:ARG:NH2	8:UM:97:GLU:OE2	2.40	0.54
8:UO:317:MET:HE3	8:UO:318:LEU:N	2.22	0.54
25:V:457:ARG:HH11	25:V:457:ARG:HA	1.73	0.54
30:V6:100:ASP:O	30:V6:104:ARG:HG2	2.07	0.54
30:V8:425:ASP:O	30:V8:429:THR:HG23	2.08	0.54
8:VA:150:ALA:O	8:VA:154:MET:HG3	2.08	0.54
9:VB:198:GLU:HA	9:VB:264:HIS:HB2	1.90	0.54
9:VD:1:MET:CE	8:VE:72:PRO:HG3	2.38	0.54
9:VF:77:ARG:HH22	43:i:212:GLN:CD	2.15	0.54
9:VJ:321:MET:N	9:VJ:321:MET:SD	2.81	0.54
9:VL:113:VAL:HG12	9:VL:147:MET:HE1	1.90	0.54
30:W0:230:ARG:O	30:W0:234:LYS:HG3	2.07	0.54
30:W0:361:LEU:HD22	30:W0:455:LEU:HD11	1.90	0.54
9:WB:285:THR:HB	9:WB:287:PRO:HD2	1.89	0.54
8:WG:188:ILE:O	8:WG:191:THR:OG1	2.26	0.54
8:WK:107:HIS:HB3	8:WK:108:TYR:CE2	2.42	0.54
8:WK:265:ILE:HG21	8:WK:313:MET:HE1	1.88	0.54
35:XF:40:ASN:O	35:XF:43:GLN:NE2	2.40	0.54
35:XF:113:ARG:HD3	35:XF:115:LYS:HE3	1.90	0.54
35:XH:33:HIS:NE2	35:XH:50:GLU:OE2	2.40	0.54
17:Z2:238:ASP:N	17:Z2:238:ASP:OD2	2.38	0.54
17:Z4:249:LYS:O	17:Z4:253:VAL:HG23	2.08	0.54
39:a:141:ALA:HA	39:a:144:ILE:HG22	1.90	0.54
39:c:110:GLU:HA	39:c:113:LYS:HG2	1.88	0.54
42:g:487:ILE:HD12	42:g:497:GLN:HB3	1.89	0.54
42:g:550:GLY:C	42:g:593:MET:HE1	2.33	0.54
45:i1:77:ALA:HB2	45:i1:109:LEU:HD11	1.90	0.54
43:k:155:PRO:HD2	43:k:158:ILE:HD12	1.90	0.54
47:o:134:SER:OG	47:o:135:ALA:N	2.41	0.54
2:1:616:HIS:HB3	8:IE:41:THR:OG1	2.07	0.54
3:3:184:ILE:HG22	3:3:188:LYS:HE3	1.89	0.54
4:6:20:LYS:HB2	8:IK:359:PRO:HG2	1.90	0.54
7:A5:5:LEU:CD2	33:X5:93:PRO:HG2	2.34	0.54
7:A5:40:GLU:OE1	7:A5:43:ARG:NH2	2.38	0.54
8:AE:370:LYS:HE3	25:U:93:ASP:HB3	1.89	0.54
8:AE:370:LYS:NZ	25:U:89:HIS:CD2	2.75	0.54
9:AJ:257:MET:HE3	9:AJ:257:MET:CA	2.35	0.54
8:AM:203:MET:O	8:AM:203:MET:HG3	2.08	0.54
9:AN:10:GLY:O	9:AN:14:ASN:ND2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AP:113:VAL:HG11	9:AP:150:LEU:HD23	1.89	0.54
11:B4:215:LEU:HD21	11:B5:332:ASP:HA	1.89	0.54
9:BD:356:ILE:HD13	17:I:271:PRO:HD2	1.90	0.54
9:BF:10:GLY:O	9:BF:14:ASN:ND2	2.41	0.54
9:BH:130:LEU:O	9:BH:162:ARG:NH1	2.39	0.54
8:BM:101:ASN:HD21	8:BM:180:ALA:HB1	1.72	0.54
9:BN:213:ARG:HB2	9:BN:297:LYS:HE2	1.90	0.54
12:C6:72:SER:HA	12:C6:75:VAL:HG22	1.90	0.54
9:CD:309:ARG:NH2	9:CD:339:SER:O	2.40	0.54
8:CO:70:LEU:HD23	8:CO:145:THR:HG23	1.90	0.54
14:D3:230:ARG:NH1	8:LK:40:LYS:HD2	2.23	0.54
9:DJ:207:LEU:HD21	9:DJ:300:MET:HE3	1.90	0.54
8:DK:155:GLU:HA	8:DK:197:HIS:HD2	1.72	0.54
8:DK:195:LEU:HD11	8:DK:264:ARG:HG3	1.90	0.54
8:DK:402:ARG:NH2	8:DK:415:GLU:OE2	2.41	0.54
9:DL:282:ARG:NH2	9:DL:292:GLN:OE1	2.41	0.54
8:DQ:3:GLU:OE2	8:DQ:64:ARG:NH2	2.40	0.54
9:EB:122:LYS:O	9:EB:122:LYS:NZ	2.41	0.54
8:EC:286:LEU:O	8:EC:373:ARG:NH1	2.40	0.54
9:EF:130:LEU:O	9:EF:162:ARG:NH1	2.39	0.54
9:EH:267:MET:HE2	9:EH:299:MET:HG3	1.90	0.54
8:EI:311:LYS:HE3	8:EI:344:VAL:HA	1.89	0.54
9:EN:54:ALA:HB3	9:EN:58:LYS:HB2	1.90	0.54
8:EO:312:TYR:HE2	8:EO:341:ILE:HD12	1.71	0.54
9:FN:273:LEU:O	9:FN:292:GLN:NE2	2.41	0.54
8:GA:46:ASP:N	26:P1:108:CYS:SG	2.78	0.54
9:GJ:316:VAL:HG12	9:GJ:352:ALA:HB3	1.88	0.54
8:HC:23:LEU:HD21	8:HC:236:SER:HB2	1.90	0.54
8:HC:319:TYR:HE2	8:HC:328:VAL:HG13	1.71	0.54
9:HF:429:THR:O	8:HG:401:LYS:NZ	2.40	0.54
9:HJ:416:ASN:HA	9:HJ:419:VAL:HG22	1.90	0.54
9:HP:328:GLU:HA	9:HP:331:LEU:HG	1.88	0.54
9:IB:295:ASP:OD1	9:IB:298:ASN:N	2.41	0.54
19:J1:249:ALA:HB2	45:l:85:THR:HG22	1.90	0.54
19:J4:146:ASP:OD2	19:J4:148:ARG:NH2	2.41	0.54
9:JH:336:LYS:NZ	34:X6:59:ARG:HH21	2.06	0.54
9:JL:318:ARG:HG2	9:JL:358:PRO:HD3	1.89	0.54
8:JQ:184:PRO:HG2	8:JQ:394:LYS:HD2	1.89	0.54
8:KC:23:LEU:HD21	8:KC:236:SER:HB3	1.90	0.54
9:KJ:8:GLN:HE22	9:KJ:17:GLY:HA3	1.73	0.54
8:KO:254:GLU:HG2	9:KP:98:GLY:HA2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L1:172:LYS:HB3	21:L1:174:PRO:HD3	1.90	0.54
9:LB:48:ASN:O	9:LB:62:ARG:NH2	2.40	0.54
8:LC:14:VAL:HG13	8:LC:67:PHE:HD2	1.71	0.54
8:LC:188:ILE:HG13	8:LC:395:PHE:CD1	2.43	0.54
9:LD:190:HIS:CE1	9:LD:414:ASN:HD22	2.26	0.54
9:MB:245:GLN:O	8:MC:11:GLN:NE2	2.41	0.54
8:MG:377:MET:HE3	8:MG:379:SER:HB3	1.89	0.54
8:MI:132:LEU:O	8:MI:164:LYS:NZ	2.39	0.54
8:MM:297:GLU:O	8:MM:301:GLN:NE2	2.37	0.54
17:N:46:PRO:HA	17:N:50:LYS:HZ1	1.72	0.54
8:NA:338:LYS:HE2	8:NA:340:THR:HB	1.88	0.54
9:NB:146:GLY:O	9:NB:149:THR:OG1	2.25	0.54
8:NI:153:LEU:O	8:NI:157:LEU:HB2	2.07	0.54
9:NL:108:GLU:N	9:NL:108:GLU:OE1	2.38	0.54
8:NM:55:GLU:HA	8:NM:60:LYS:O	2.08	0.54
8:NM:215:ARG:NH2	8:NM:299:ALA:O	2.40	0.54
24:O1:29:PHE:HE2	24:O1:45:ASN:HB3	1.72	0.54
9:OB:305:PRO:HA	9:OB:373:ALA:HB2	1.89	0.54
9:OD:207:LEU:HD23	9:OD:300:MET:HE2	1.90	0.54
8:OE:326:LYS:HE3	9:OF:220:PRO:HG2	1.90	0.54
9:OF:144:GLY:N	52:OF:502:GDP:O1B	2.25	0.54
9:OL:372:THR:HA	9:OL:422:TYR:HE1	1.71	0.54
27:P6:180:GLN:OE1	14:T2:344:LYS:NZ	2.41	0.54
8:PE:116:ASP:N	8:PE:116:ASP:OD1	2.38	0.54
8:PM:345:ASP:N	8:PM:345:ASP:OD1	2.40	0.54
9:PP:73:MET:HE1	9:PP:92:PHE:HB3	1.89	0.54
9:QJ:112:LEU:HB3	9:QJ:147:MET:HE1	1.89	0.54
9:QL:182:PRO:O	9:QL:186:THR:OG1	2.26	0.54
9:QP:139:LEU:HD21	9:QP:168:SER:HB2	1.88	0.54
11:R0:319:GLU:HB2	11:R1:202:LYS:HD2	1.89	0.54
9:RD:158:GLU:HG3	9:RD:159:TYR:CD2	2.42	0.54
8:RE:6:SER:HB3	8:RE:8:HIS:NE2	2.23	0.54
8:RG:169:PHE:HA	8:RG:202:PHE:HB2	1.88	0.54
9:RH:249:ASP:H	9:RH:252:LYS:HB2	1.71	0.54
8:RI:345:ASP:N	8:RI:345:ASP:OD1	2.40	0.54
12:S4:157:LYS:O	12:S4:161:THR:HG23	2.08	0.54
8:SE:317:MET:HE3	8:SE:318:LEU:N	2.22	0.54
8:SG:215:ARG:NH2	8:SG:300:ASN:OD1	2.39	0.54
8:SG:385:ALA:HA	8:SG:388:TRP:CZ3	2.43	0.54
9:SJ:198:GLU:HA	9:SJ:264:HIS:HB2	1.90	0.54
9:SL:249:ASP:H	9:SL:252:LYS:HB3	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TA:21:TRP:CH2	8:TA:63:PRO:HA	2.43	0.54
9:TD:31:ASP:OD1	9:TD:35:THR:N	2.40	0.54
9:TF:26:ASP:O	9:TF:359:ARG:NH1	2.41	0.54
8:TM:316:CYS:HB3	8:TM:378:LEU:HB2	1.90	0.54
9:TN:68:LEU:HB3	9:TN:96:GLY:HA2	1.89	0.54
25:U:529:ALA:HA	25:U:532:GLN:OE1	2.08	0.54
30:U2:445:VAL:HA	30:U2:448:LYS:HB3	1.89	0.54
30:U6:97:ARG:HD2	30:W2:299:PHE:HE1	1.72	0.54
30:U8:79:LEU:HD12	30:U8:82:LEU:HD12	1.88	0.54
30:U8:382:ILE:HG22	30:U8:430:LEU:HB3	1.90	0.54
9:UB:54:ALA:HA	9:VB:283:ALA:HB2	1.89	0.54
9:UH:68:LEU:HD21	9:UH:108:GLU:HG3	1.89	0.54
8:UI:33:ASP:OD1	8:UI:35:GLN:N	2.41	0.54
8:UI:155:GLU:OE1	8:UI:156:ARG:NH1	2.40	0.54
9:UJ:31:ASP:OD1	9:UJ:35:THR:N	2.40	0.54
8:UK:203:MET:H	8:UK:203:MET:HE3	1.73	0.54
9:UL:313:VAL:HG13	9:UL:367:PHE:HE1	1.73	0.54
9:UL:324:LYS:HZ3	8:UM:222:PRO:CD	2.21	0.54
8:VA:370:LYS:HD2	39:a:372:LEU:HD22	1.90	0.54
8:VE:5:ILE:HD12	8:VE:132:LEU:HD21	1.89	0.54
8:VE:264:ARG:NH1	8:VE:431:ASP:OD2	2.40	0.54
8:VI:88:HIS:CD2	8:VI:90:GLU:H	2.26	0.54
9:VL:318:ARG:H	9:VL:363:MET:HE1	1.73	0.54
30:W2:218:GLU:CD	30:W2:335:GLN:HE21	2.15	0.54
8:WA:96:LYS:HG3	8:WA:97:GLU:HG3	1.89	0.54
9:WH:358:PRO:HG2	9:WH:361:LEU:HB3	1.90	0.54
34:X7:153:THR:HG22	34:X7:154:ASP:H	1.73	0.54
35:XD:180:GLU:OE2	35:XD:180:GLU:N	2.35	0.54
37:YF:165:MET:HE3	37:YF:168:GLU:HB2	1.90	0.54
40:a2:68:PRO:O	40:a2:70:CYS:N	2.35	0.54
39:b:457:ILE:C	39:b:461:LYS:HZ2	2.16	0.54
42:f:292:GLY:H	42:f:310:GLU:HB2	1.73	0.54
4:6:117:ILE:HB	4:6:178:ILE:HB	1.88	0.54
7:A4:26:ARG:NH2	31:Y:63:GLY:O	2.41	0.54
8:BM:258:ASN:HB3	9:BN:179:VAL:HG22	1.90	0.54
12:C2:95:THR:HG22	12:C2:97:ASP:H	1.73	0.54
9:CB:37:HIS:HB3	40:a1:145:LYS:HE3	1.90	0.54
9:CB:74:ASP:HB3	25:T:289:PRO:HG3	1.90	0.54
9:CB:379:LYS:HD3	9:CB:419:VAL:HG21	1.89	0.54
9:CD:10:GLY:O	9:CD:14:ASN:ND2	2.41	0.54
9:CH:347:ASN:OD1	8:CI:178:SER:OG	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CK:167:LEU:HD21	8:CK:255:PHE:HZ	1.73	0.54
8:DC:58:ALA:HA	31:W:418:PHE:CE1	2.42	0.54
9:EB:31:ASP:OD1	9:EB:35:THR:N	2.34	0.54
8:EI:51:THR:HG21	8:EI:243:ARG:HG2	1.88	0.54
9:EJ:285:THR:HB	9:EJ:287:PRO:HD2	1.90	0.54
8:EM:49:PHE:HB2	8:EM:53:PHE:HB2	1.90	0.54
15:F:42:ARG:NH1	15:F:103:GLN:O	2.41	0.54
9:FL:274:THR:HB	9:FL:278:SER:HB2	1.90	0.54
9:FN:276:ARG:O	9:FN:276:ARG:NH1	2.41	0.54
8:FO:132:LEU:O	8:FO:164:LYS:NZ	2.35	0.54
9:GH:213:ARG:NH1	36:Y2:167:SER:OG	2.40	0.54
8:GI:264:ARG:HG2	8:GI:428:LEU:HD12	1.88	0.54
8:GK:250:VAL:HG13	8:GK:254:GLU:HB2	1.88	0.54
8:GM:24:TYR:HA	8:GM:27:GLU:OE1	2.08	0.54
9:HB:5:VAL:HB	9:HB:133:PHE:HD1	1.72	0.54
9:HB:28:HIS:CE1	9:HB:241:ARG:HD2	2.43	0.54
8:HG:47:ASP:N	8:HG:47:ASP:OD1	2.40	0.54
8:HG:133:GLN:C	8:HG:164:LYS:NZ	2.66	0.54
8:HM:175:PRO:HA	8:HM:390:ARG:NH1	2.23	0.54
8:HM:224:TYR:O	8:HM:228:ASN:ND2	2.40	0.54
9:HN:198:GLU:HB3	9:HN:266:PHE:HE2	1.73	0.54
8:IA:203:MET:HE1	8:IA:388:TRP:HD1	1.71	0.54
8:IA:385:ALA:HA	8:IA:388:TRP:CZ3	2.43	0.54
8:IG:241:SER:HA	8:IG:356:ASN:HD22	1.73	0.54
9:IH:7:LEU:N	9:IH:134:GLN:O	2.39	0.54
8:IK:88:HIS:HB3	8:IK:91:GLN:OE1	2.08	0.54
8:IK:183:GLU:HA	8:IK:186:ASN:HD22	1.71	0.54
19:J3:177:THR:OG1	9:OJ:276:ARG:NH2	2.40	0.54
9:JB:45:GLU:HG3	9:JB:46:ARG:HG2	1.88	0.54
9:JD:180:VAL:HG13	9:JD:184:ASN:HD21	1.72	0.54
9:JF:284:LEU:HB3	9:JF:363:MET:HE2	1.90	0.54
9:JH:187:LEU:HD11	9:JH:408:PHE:HD1	1.73	0.54
8:JI:367:ASP:OD1	8:JI:367:ASP:N	2.40	0.54
9:JJ:49:VAL:HG13	9:JJ:50:TYR:CD2	2.42	0.54
8:JO:183:GLU:N	8:JO:183:GLU:OE1	2.40	0.54
8:JQ:217:LEU:HD12	8:JQ:367:ASP:OD2	2.08	0.54
8:KA:332:ILE:HD11	9:KB:175:VAL:HG22	1.90	0.54
9:KB:23:VAL:HG21	9:KB:230:SER:HB2	1.90	0.54
9:KB:380:ARG:NH1	9:KB:384:GLN:OE1	2.41	0.54
8:KE:175:PRO:HB3	8:KE:390:ARG:NE	2.18	0.54
9:KF:100:ASN:OD1	9:KF:102:ALA:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KH:222:TYR:HA	9:KH:225:LEU:HB2	1.90	0.54
8:KK:27:GLU:OE1	8:KK:243:ARG:NH2	2.40	0.54
8:KK:139:HIS:NE2	8:KK:168:GLU:OE1	2.41	0.54
8:KK:203:MET:HE1	8:KK:267:PHE:HB3	1.89	0.54
9:KL:323:MET:H	9:KL:323:MET:CE	2.21	0.54
9:KN:31:ASP:OD1	9:KN:35:THR:N	2.41	0.54
9:KN:158:GLU:HG3	9:KN:159:TYR:CE1	2.43	0.54
9:KN:267:MET:HE1	9:KN:305:PRO:HD3	1.88	0.54
8:MG:258:ASN:HB3	9:MH:179:VAL:HB	1.89	0.54
9:MH:63:ALA:O	9:MH:89:ASN:ND2	2.41	0.54
8:MK:7:ILE:HD11	8:MK:135:PHE:HB3	1.89	0.54
8:MK:329:ASN:ND2	9:ML:205:GLU:OE1	2.38	0.54
9:ML:323:MET:HE1	8:MM:224:TYR:CE2	2.43	0.54
9:ML:334:GLN:HE22	9:ML:348:ASN:N	2.06	0.54
9:MN:131:GLN:NE2	8:MO:97:GLU:OE2	2.40	0.54
8:NI:271:THR:HB	8:NI:377:MET:HB3	1.90	0.54
8:NI:367:ASP:N	8:NI:367:ASP:OD1	2.40	0.54
9:OB:167:PHE:CE2	9:OB:233:MET:HG2	2.43	0.54
9:OD:68:LEU:HB3	9:OD:96:GLY:HA2	1.90	0.54
9:OF:305:PRO:HA	9:OF:373:ALA:HB2	1.89	0.54
9:OJ:20:PHE:CZ	9:OJ:233:MET:HB2	2.42	0.54
9:OL:322:SER:O	8:OM:221:ARG:NH2	2.38	0.54
8:OM:1:MET:SD	8:OM:2:ARG:NH1	2.81	0.54
9:ON:309:ARG:NH2	9:ON:339:SER:O	2.41	0.54
8:PC:171:ILE:HD13	8:PC:204:VAL:HG13	1.89	0.54
9:PD:290:THR:HG21	9:PD:329:GLN:HB2	1.88	0.54
8:PE:83:TYR:HB3	8:PE:86:LEU:HB3	1.90	0.54
9:PN:5:VAL:HB	9:PN:133:PHE:HD1	1.73	0.54
9:PP:54:ALA:HB3	9:PP:58:LYS:HB3	1.90	0.54
28:Q2:7:GLU:HG3	28:Q2:9:THR:H	1.73	0.54
8:QE:116:ASP:N	8:QE:116:ASP:OD1	2.39	0.54
9:QF:256:ASN:HD21	8:QG:181:VAL:H	1.55	0.54
9:QP:69:GLU:HG2	9:QP:71:GLY:H	1.71	0.54
8:RG:297:GLU:O	8:RG:301:GLN:NE2	2.34	0.54
9:RL:51:TYR:HB3	9:RL:59:TYR:HB3	1.89	0.54
8:RM:167:LEU:HD11	8:RM:256:GLN:HE21	1.73	0.54
12:S3:419:ARG:O	12:S3:423:GLU:HG2	2.07	0.54
12:S9:176:ASP:HA	12:S9:179:ARG:HE	1.72	0.54
9:SF:324:LYS:HG3	8:SG:222:PRO:HD2	1.89	0.54
9:SJ:284:LEU:HD12	9:SJ:362:LYS:HD3	1.90	0.54
14:T2:99:SER:OG	14:T3:356:ARG:NH1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TD:258:VAL:HB	8:TE:407:TRP:HZ2	1.72	0.54
9:TD:274:THR:HB	9:TD:278:SER:HB2	1.88	0.54
8:UA:88:HIS:CE1	8:UA:90:GLU:HB3	2.43	0.54
8:UC:188:ILE:O	8:UC:191:THR:OG1	2.24	0.54
8:UE:269:LEU:HD22	8:UE:303:VAL:HG21	1.90	0.54
8:UE:311:LYS:HD3	8:UE:344:VAL:HG12	1.89	0.54
9:UJ:314:ALA:HB3	9:UJ:368:ILE:HG23	1.89	0.54
8:UK:7:ILE:HD12	8:UK:137:ILE:HG12	1.89	0.54
8:UM:203:MET:N	8:UM:203:MET:SD	2.81	0.54
8:UM:345:ASP:N	8:UM:345:ASP:OD1	2.40	0.54
9:UN:178:THR:HB	9:UN:181:GLU:HB2	1.89	0.54
25:V:45:MET:H	25:V:51:ARG:HD2	1.72	0.54
8:VA:236:SER:HA	8:VA:243:ARG:HH12	1.72	0.54
9:VH:86:ARG:HB3	9:VH:89:ASN:ND2	2.22	0.54
8:VK:70:LEU:HD23	8:VK:145:THR:HG23	1.90	0.54
30:W5:140:ARG:NH1	30:W5:301:ASN:OD1	2.41	0.54
9:WH:245:GLN:O	8:WI:11:GLN:NE2	2.40	0.54
8:WM:102:ASN:HB3	8:WM:105:ARG:HB2	1.89	0.54
8:WO:23:LEU:HD12	8:WO:26:LEU:HD11	1.89	0.54
31:X:663:LYS:O	31:X:666:ARG:NH1	2.41	0.54
35:XH:87:PHE:H	35:XH:107:ASN:HD21	1.56	0.54
42:e:166:PHE:C	42:e:213:MET:HE1	2.33	0.54
42:e:515:PHE:HD1	47:o:76:MET:HE2	1.72	0.54
46:i2:1457:SER:O	46:i2:1460:THR:OG1	2.24	0.54
2:2:393:PRO:O	8:HM:85:GLN:NE2	2.41	0.54
3:3:29:LYS:O	3:3:31:GLN:HG2	2.08	0.54
3:4:497:LEU:HG	3:4:499:GLN:H	1.73	0.54
7:A2:206:ARG:NH2	33:X4:142:THR:O	2.36	0.54
8:AA:6:SER:HB3	8:AA:8:HIS:CD2	2.42	0.54
8:AA:213:CYS:HA	8:AA:217:LEU:HD13	1.88	0.54
9:AB:274:THR:HB	9:AB:278:SER:HB2	1.89	0.54
8:AC:56:THR:HG22	8:AC:60:LYS:H	1.73	0.54
9:AD:161:ASP:OD2	9:AD:162:ARG:NH1	2.40	0.54
8:AG:2:ARG:HH22	9:AH:71:GLY:HA3	1.72	0.54
9:AN:309:ARG:HG2	37:YG:40:PRO:HG3	1.90	0.54
10:B:176:LYS:O	10:B:180:ARG:HG3	2.07	0.54
11:B2:127:ASP:OD2	11:B2:383:THR:OG1	2.25	0.54
9:BD:226:ASN:O	9:BD:230:SER:N	2.40	0.54
9:BL:146:GLY:O	9:BL:149:THR:OG1	2.24	0.54
8:BO:113:GLU:OE2	8:BO:113:GLU:N	2.29	0.54
12:C1:90:PHE:HD2	17:O9:183:ARG:HH21	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:234:ILE:HD11	8:CC:272:TYR:HB2	1.90	0.54
9:CD:8:GLN:NE2	9:CD:14:ASN:OD1	2.31	0.54
8:CI:264:ARG:NH1	8:CI:431:ASP:OD2	2.41	0.54
8:CK:7:ILE:HD12	8:CK:137:ILE:HG12	1.89	0.54
9:CN:322:SER:OG	8:CO:222:PRO:O	2.21	0.54
9:CP:330:MET:N	9:CP:330:MET:SD	2.81	0.54
8:CQ:56:THR:HG22	8:DQ:285:GLN:HB2	1.90	0.54
15:E:199:ALA:HB1	15:E:206:ARG:HD3	1.90	0.54
9:ED:248:ALA:HA	9:ED:252:LYS:HG3	1.90	0.54
9:EH:322:SER:OG	8:EI:222:PRO:O	2.21	0.54
9:FF:269:GLY:HA2	9:FF:300:MET:HE3	1.90	0.54
9:FF:321:MET:N	9:FF:321:MET:HE3	2.23	0.54
9:FH:363:MET:HA	9:FH:363:MET:HE3	1.89	0.54
9:FJ:219:THR:O	9:FJ:219:THR:OG1	2.25	0.54
8:FK:123:ARG:NH1	8:FK:127:ASP:OD1	2.41	0.54
9:FL:346:PRO:HD2	8:FM:398:MET:HE1	1.90	0.54
8:FM:320:ARG:HD3	8:FM:360:PRO:HG3	1.90	0.54
8:GG:359:PRO:HB2	8:GG:370:LYS:HZ1	1.72	0.54
9:GH:100:ASN:OD1	9:GH:103:LYS:N	2.35	0.54
9:GN:1:MET:HE1	9:GN:49:VAL:HG22	1.89	0.54
8:HC:88:HIS:CD2	8:IC:283:HIS:HB2	2.43	0.54
9:HF:201:CYS:SG	9:HF:265:PHE:HB3	2.48	0.54
8:HG:172:TYR:HB2	8:HG:203:MET:HG3	1.89	0.54
9:HH:169:VAL:HA	9:HH:202:ILE:HG22	1.89	0.54
17:I:16:TYR:HB2	17:I:39:THR:HG21	1.89	0.54
8:IA:196:GLU:O	34:X8:263:ARG:NH1	2.39	0.54
8:IA:329:ASN:HB3	9:IB:175:VAL:HG21	1.90	0.54
9:IH:309:ARG:O	9:IH:372:THR:HG23	2.08	0.54
8:II:145:THR:OG1	50:II:501:GTP:O1G	2.25	0.54
9:IJ:356:ILE:HD12	9:IJ:357:PRO:HD2	1.90	0.54
8:IK:326:LYS:HE2	9:IL:220:PRO:HD2	1.90	0.54
8:IM:183:GLU:HA	8:IM:186:ASN:HD22	1.73	0.54
8:IO:345:ASP:N	8:IO:345:ASP:OD1	2.34	0.54
9:IP:22:GLU:HA	9:IP:81:PHE:HD2	1.72	0.54
9:IP:173:PRO:HG2	9:IP:174:LYS:HD3	1.90	0.54
9:JB:248:ALA:HA	9:JB:252:LYS:HD2	1.89	0.54
9:JD:327:ASP:HB2	8:JE:177:VAL:HG21	1.90	0.54
9:JH:52:ASN:OD1	9:JH:62:ARG:NH1	2.41	0.54
8:JI:258:ASN:HD22	8:JI:352:LYS:CE	2.19	0.54
9:JL:344:TRP:CD1	9:JL:345:ILE:HG13	2.43	0.54
9:JN:6:HIS:CD2	9:JN:21:TRP:HE1	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JQ:87:PHE:HB3	8:JQ:92:LEU:HD21	1.89	0.54
8:KA:188:ILE:O	8:KA:191:THR:OG1	2.24	0.54
8:KC:179:THR:OG1	50:KC:501:GTP:O3'	2.23	0.54
9:KH:245:GLN:O	8:KI:11:GLN:NE2	2.41	0.54
8:KI:225:THR:HA	8:KI:228:ASN:HB2	1.90	0.54
8:KK:12:ALA:O	8:KK:16:ILE:HG13	2.08	0.54
9:KL:44:LEU:HD12	9:KL:47:ILE:HD12	1.89	0.54
9:KN:133:PHE:HE2	9:KN:159:TYR:HD2	1.55	0.54
9:KP:112:LEU:HB2	9:KP:147:MET:HE1	1.90	0.54
21:L1:137:TYR:CZ	8:VG:18:ASN:HB3	2.42	0.54
9:LD:343:GLU:HG3	9:LD:430:ALA:HB2	1.89	0.54
9:LF:10:GLY:O	9:LF:14:ASN:ND2	2.40	0.54
9:LL:6:HIS:HD2	9:LL:134:GLN:HE21	1.56	0.54
8:LM:51:THR:HG21	8:LM:243:ARG:HG2	1.90	0.54
9:MH:153:SER:HA	9:MH:195:ASN:HD22	1.71	0.54
9:MP:28:HIS:ND1	9:MP:43:GLN:O	2.37	0.54
9:NP:198:GLU:HA	9:NP:264:HIS:HB2	1.89	0.54
17:O8:45:ASP:HB3	17:O8:48:VAL:HG12	1.90	0.54
9:OF:8:GLN:HG2	9:OF:14:ASN:HA	1.88	0.54
8:OI:133:GLN:HG3	8:OI:252:LEU:HD22	1.89	0.54
9:OL:8:GLN:HG2	9:OL:14:ASN:HA	1.90	0.54
27:P3:125:TRP:HB3	27:P3:139:GLU:CB	2.35	0.54
27:P3:137:GLU:CB	27:P3:148:LYS:HZ1	2.21	0.54
9:PB:128:ASP:OD2	9:PB:129:CYS:N	2.41	0.54
9:PD:164:MET:HA	9:PD:164:MET:HE2	1.90	0.54
9:PH:256:ASN:HD21	8:PI:181:VAL:HG23	1.73	0.54
9:PJ:335:ASN:O	9:PJ:338:SER:OG	2.23	0.54
28:Q1:99:GLN:CD	28:Q1:103:ARG:HH12	2.16	0.54
9:QD:1:MET:HE3	9:QD:2:ARG:H	1.72	0.54
9:QD:401:GLU:HB2	9:QD:403:MET:HE1	1.90	0.54
8:QG:346:TRP:CE3	9:QH:388:MET:HE1	2.43	0.54
9:QH:294:PHE:CE2	9:QH:333:VAL:HG21	2.43	0.54
8:QK:348:PRO:HD2	9:QL:388:MET:HE1	1.90	0.54
9:QL:248:ALA:HA	9:QL:252:LYS:HD2	1.89	0.54
8:QM:236:SER:OG	8:QM:243:ARG:NH2	2.39	0.54
9:QP:52:ASN:OD1	9:QP:60:VAL:HB	2.07	0.54
9:RN:1:MET:HE2	9:RN:46:ARG:HD2	1.90	0.54
9:RN:284:LEU:HD21	9:RN:363:MET:HG2	1.90	0.54
12:S3:280:GLY:HA2	14:T3:41:LEU:HA	1.89	0.54
9:SD:360:GLY:HA3	47:p:540:LYS:HZ2	1.73	0.54
14:T0:33:THR:OG1	14:T0:37:THR:O	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T1:77:GLN:NE2	14:T2:397:ASP:OD2	2.33	0.54
14:T1:134:GLN:NE2	14:T1:283:ASP:OD1	2.39	0.54
14:T3:218:LYS:HE3	14:T3:261:ASN:HD21	1.71	0.54
9:TB:309:ARG:HG3	9:TB:426:GLN:HG3	1.89	0.54
9:TF:27:GLU:HA	9:TF:359:ARG:HD2	1.88	0.54
8:TG:285:GLN:HE22	8:TG:287:SER:HB3	1.71	0.54
30:U0:390:LYS:HB3	30:U1:277:ILE:HB	1.90	0.54
9:UJ:375:GLN:HA	9:UJ:378:PHE:HD2	1.72	0.54
8:UO:313:MET:HG3	8:UO:344:VAL:HG11	1.90	0.54
30:V2:198:ARG:NH1	30:V2:209:ASP:OD1	2.41	0.54
9:VN:165:ASN:ND2	9:VN:200:TYR:OH	2.40	0.54
9:VN:313:VAL:HB	9:VN:349:VAL:HG22	1.89	0.54
8:VO:79:ARG:NH2	8:VO:92:LEU:O	2.41	0.54
31:W:441:ILE:HD12	31:W:519:LEU:O	2.08	0.54
30:W0:301:ASN:O	30:W0:305:ARG:HG2	2.08	0.54
8:WA:108:TYR:CD2	8:WA:413:MET:HE2	2.43	0.54
9:WF:163:ILE:HG12	9:WF:251:ARG:HE	1.72	0.54
8:WG:56:THR:OG1	8:WG:57:GLY:N	2.41	0.54
9:WN:122:LYS:NZ	37:YG:196:ASP:O	2.36	0.54
8:WO:171:ILE:HD13	8:WO:204:VAL:HG13	1.90	0.54
34:X7:256:PRO:HB3	34:X7:260:GLN:HG3	1.89	0.54
35:XB:141:ARG:NH2	35:XB:147:ASN:OD1	2.41	0.54
31:Z:489:PRO:HG3	31:Z:514:ASN:HB3	1.89	0.54
39:d:518:LYS:O	39:d:522:LEU:HD22	2.07	0.54
47:o:159:MET:SD	47:p:483:TYR:CZ	3.01	0.54
2:1:469:GLY:HA2	8:IC:285:GLN:HE22	1.73	0.54
2:1:803:ASN:O	10:B:92:ARG:NH2	2.41	0.54
3:3:22:ILE:HD11	9:OL:212:PHE:CE2	2.43	0.54
3:3:26:LYS:NZ	9:NL:74:ASP:HB2	2.22	0.54
9:AD:6:HIS:CD2	9:AD:21:TRP:HE1	2.26	0.54
9:AD:286:VAL:HG13	9:AD:287:PRO:HD3	1.90	0.54
9:AD:322:SER:OG	8:AE:222:PRO:O	2.22	0.54
9:AF:299:MET:SD	9:AF:300:MET:N	2.81	0.54
9:AJ:190:HIS:HD1	9:AJ:190:HIS:C	2.15	0.54
8:AM:245:ASP:OD1	8:AM:246:GLY:N	2.41	0.54
9:AN:113:VAL:HA	9:AN:116:VAL:HG22	1.90	0.54
10:B:308:GLU:OE2	10:B:311:ARG:NH1	2.40	0.54
9:BL:65:LEU:HB3	9:BL:73:MET:HE1	1.90	0.54
9:CN:416:ASN:O	9:CN:420:SER:OG	2.22	0.54
8:CO:286:LEU:O	8:CO:373:ARG:NH1	2.41	0.54
8:DC:6:SER:HB3	8:DC:8:HIS:NE2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DC:53:PHE:HB3	8:DC:61:HIS:HB3	1.88	0.54
8:EA:345:ASP:N	8:EA:345:ASP:OD1	2.41	0.54
9:EJ:125:GLU:OE1	9:FJ:336:LYS:NZ	2.38	0.54
9:EL:271:ALA:HB1	9:EL:289:LEU:HD22	1.90	0.54
9:EN:323:MET:HE1	8:EO:224:TYR:CD1	2.43	0.54
8:FA:7:ILE:HD12	8:FA:137:ILE:HG12	1.89	0.54
8:FA:116:ASP:HB2	36:Y3:70:TYR:HB2	1.89	0.54
8:FA:353:VAL:HB	9:FB:177:ASP:HB2	1.90	0.54
9:FJ:252:LYS:HD3	8:FK:100:ALA:HA	1.88	0.54
16:G:34:ASN:OD1	9:GJ:227:HIS:NE2	2.41	0.54
8:GA:348:PRO:HG2	9:GB:384:GLN:HG3	1.90	0.54
9:GD:86:ARG:HH11	9:HD:281:TYR:HB2	1.72	0.54
8:GG:17:GLY:O	8:GG:21:TRP:CD1	2.61	0.54
9:GH:54:ALA:HB3	9:GH:58:LYS:HB2	1.90	0.54
9:GH:377:LEU:HD22	9:GH:380:ARG:HH22	1.73	0.54
9:GN:172:SER:OG	9:GN:205:GLU:OE1	2.22	0.54
8:HC:311:LYS:H	8:HC:382:THR:HG22	1.73	0.54
9:HH:235:GLY:HA3	9:HH:366:THR:HG21	1.89	0.54
9:IB:286:VAL:HG23	9:IB:287:PRO:HD3	1.89	0.54
8:IC:214:ARG:NH2	36:Y0:46:LEU:O	2.41	0.54
8:IC:257:THR:HG21	9:ID:98:GLY:O	2.07	0.54
8:IE:245:ASP:HA	8:IE:249:ASN:HD21	1.73	0.54
8:IE:367:ASP:OD1	8:IE:367:ASP:N	2.34	0.54
9:IF:136:THR:HG22	9:IF:167:PHE:CD1	2.43	0.54
8:IG:308:ARG:HG2	36:Y1:182:PRO:HB3	1.89	0.54
9:IJ:252:LYS:O	9:IJ:256:ASN:ND2	2.41	0.54
8:IK:151:SER:HA	8:IK:193:THR:HG21	1.90	0.54
8:IM:56:THR:OG1	8:IM:57:GLY:N	2.36	0.54
9:JB:324:LYS:HE3	8:JC:210:TYR:CD1	2.43	0.54
9:JD:48:ASN:O	9:JD:62:ARG:NH2	2.40	0.54
8:JE:14:VAL:HG13	8:JE:67:PHE:HD2	1.74	0.54
9:JJ:131:GLN:HE22	9:JJ:250:LEU:H	1.55	0.54
8:JM:265:ILE:HG21	8:JM:313:MET:HE1	1.90	0.54
8:JM:437:VAL:O	9:JN:391:ARG:NH2	2.34	0.54
9:KD:238:THR:HG21	9:KD:318:ARG:HD3	1.89	0.54
8:KE:40:LYS:NZ	8:KE:46:ASP:OD1	2.41	0.54
9:KH:1:MET:N	9:KH:128:ASP:OD1	2.39	0.54
8:KK:2:ARG:NH1	8:KK:242:LEU:O	2.37	0.54
8:KK:320:ARG:HD3	8:KK:360:PRO:HG3	1.89	0.54
8:KK:346:TRP:HB3	9:KL:390:ARG:HH12	1.73	0.54
9:KL:178:THR:HB	9:KL:181:GLU:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LJ:27:GLU:OE1	9:LJ:241:ARG:NH2	2.41	0.54
8:LK:339:ARG:HG3	8:LK:339:ARG:HH11	1.73	0.54
8:LM:440:VAL:HG11	44:h4:47:LEU:HA	1.90	0.54
9:LN:8:GLN:OE1	9:LN:136:THR:OG1	2.25	0.54
8:LO:60:LYS:HD3	8:MO:283:HIS:CE1	2.43	0.54
8:MA:88:HIS:HD2	8:MA:89:PRO:HD2	1.73	0.54
9:MF:8:GLN:HE22	9:MF:17:GLY:HA3	1.73	0.54
9:ML:23:VAL:HG12	31:Y:5:PHE:HE1	1.71	0.54
9:ML:139:LEU:HA	9:ML:145:SER:HB3	1.90	0.54
9:MN:358:PRO:HG2	9:MN:361:LEU:HB2	1.90	0.54
8:MO:437:VAL:O	9:MP:391:ARG:NH2	2.41	0.54
17:N:268:THR:HG23	17:N:270:TRP:H	1.71	0.54
9:NF:378:PHE:HA	9:NF:381:ILE:HD12	1.90	0.54
8:NI:8:HIS:HD2	8:NI:138:PHE:CD1	2.25	0.54
8:NI:252:LEU:HG	8:NI:253:THR:N	2.23	0.54
9:NJ:116:VAL:O	9:NJ:120:VAL:HG23	2.08	0.54
9:NN:278:SER:O	9:NN:282:ARG:HD3	2.08	0.54
25:O5:19:ASP:OD2	25:O5:22:LYS:N	2.40	0.54
25:O5:325:THR:OG1	25:O5:327:LYS:NZ	2.41	0.54
17:O8:87:PRO:HD3	11:R1:215:LEU:HD21	1.90	0.54
8:OA:147:SER:OG	8:OA:190:THR:OG1	2.26	0.54
8:OC:107:HIS:HA	8:OC:152:LEU:HD23	1.89	0.54
9:OF:8:GLN:HB3	9:OF:65:LEU:HA	1.90	0.54
9:OJ:274:THR:HG21	9:OJ:282:ARG:HD2	1.90	0.54
9:OJ:304:ASP:HB3	9:OJ:307:HIS:CE1	2.43	0.54
9:OL:166:THR:HG23	9:OL:199:THR:HG23	1.91	0.54
8:OO:215:ARG:NH2	36:Y5:190:VAL:HG23	2.23	0.54
9:OP:51:TYR:O	9:OP:62:ARG:NH2	2.41	0.54
23:P:268:ARG:HD2	23:P:269:VAL:H	1.72	0.54
17:P8:94:PRO:HB3	30:W6:56:PHE:HE1	1.73	0.54
17:P8:145:ALA:HB1	17:P8:165:ALA:HB1	1.88	0.54
9:PH:130:LEU:O	9:PH:162:ARG:NH1	2.38	0.54
9:PL:118:ASP:OD1	9:PL:121:ARG:NH2	2.36	0.54
9:PP:8:GLN:HE21	9:PP:14:ASN:HA	1.73	0.54
8:QG:112:LYS:HA	8:QG:115:VAL:HG13	1.89	0.54
9:QH:204:ASN:OD1	52:QH:502:GDP:N2	2.40	0.54
8:QI:117:LEU:HD13	8:QI:121:ARG:HH21	1.72	0.54
9:QJ:118:ASP:OD1	9:QJ:121:ARG:NH2	2.39	0.54
9:QJ:372:THR:HA	9:QJ:422:TYR:HE1	1.73	0.54
9:QL:267:MET:HE1	9:QL:305:PRO:HG3	1.90	0.54
8:QM:107:HIS:HA	8:QM:152:LEU:HD23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R0:301:GLU:OE2	11:R0:305:ARG:NH2	2.41	0.54
11:R4:391:MET:HE2	11:R4:391:MET:HA	1.90	0.54
11:R4:413:ARG:HH11	11:R4:413:ARG:CG	2.12	0.54
8:RC:317:MET:HB3	8:RC:353:VAL:HA	1.90	0.54
9:RF:7:LEU:N	9:RF:134:GLN:O	2.40	0.54
8:RK:104:ALA:HA	8:RK:413:MET:HE3	1.89	0.54
8:RK:116:ASP:N	8:RK:116:ASP:OD1	2.40	0.54
8:RK:345:ASP:N	8:RK:345:ASP:OD1	2.40	0.54
8:RO:151:SER:HA	8:RO:154:MET:HE3	1.89	0.54
8:SK:9:VAL:HB	8:SK:139:HIS:HB3	1.90	0.54
8:TC:50:ASN:O	8:TC:64:ARG:NH1	2.41	0.54
8:TE:431:ASP:O	8:TE:435:VAL:HG23	2.08	0.54
9:TL:63:ALA:HB3	9:TL:85:PHE:HE2	1.73	0.54
9:TL:114:ASP:N	9:TL:114:ASP:OD1	2.39	0.54
9:TL:324:LYS:HZ2	8:TM:214:ARG:HB2	1.73	0.54
25:U:501:HIS:HB3	25:U:503:PHE:HE1	1.72	0.54
30:U5:79:LEU:HD12	30:U5:80:PRO:HD2	1.90	0.54
30:U5:100:ASP:OD2	30:U5:104:ARG:NH2	2.41	0.54
30:U7:225:CYS:HB2	30:U7:328:LEU:HD13	1.89	0.54
30:U8:127:LYS:HD2	30:U9:426:THR:HG22	1.90	0.54
9:UD:8:GLN:HB3	9:UD:65:LEU:HA	1.90	0.54
9:UJ:55:THR:HG22	9:VJ:283:ALA:HA	1.90	0.54
9:UL:6:HIS:CD2	9:UL:21:TRP:HE1	2.26	0.54
30:V2:232:LEU:O	30:V2:236:ILE:HG13	2.08	0.54
8:VE:53:PHE:HB3	8:VE:61:HIS:HB3	1.88	0.54
8:VI:339:ARG:HH21	8:VI:342:GLN:HG2	1.73	0.54
9:VJ:26:ASP:O	9:VJ:359:ARG:NH1	2.41	0.54
9:VJ:375:GLN:HA	9:VJ:378:PHE:HD2	1.73	0.54
8:VK:123:ARG:NH1	8:VK:127:ASP:OD2	2.40	0.54
9:VL:207:LEU:HB3	9:VL:225:LEU:HG	1.90	0.54
8:WE:185:TYR:CZ	8:WE:398:MET:HE2	2.44	0.54
8:WG:286:LEU:HG	8:WG:373:ARG:HH11	1.72	0.54
9:WH:19:LYS:NZ	9:WH:223:GLY:O	2.41	0.54
8:WK:264:ARG:NH1	8:WK:431:ASP:OD2	2.40	0.54
31:X:57:HIS:H	31:X:135:ARG:HH22	1.55	0.54
35:XG:75:PHE:HB2	35:XG:168:SER:HB3	1.90	0.54
31:Y:627:PHE:O	31:Y:630:ASN:O	2.25	0.54
37:YA:32:MET:HG3	37:YA:33:LYS:N	2.23	0.54
37:YB:144:ARG:O	37:YB:146:ARG:NH1	2.41	0.54
37:YC:68:ALA:HB3	37:YC:79:ALA:HB3	1.90	0.54
41:b4:391:GLU:HB3	41:b4:395:ARG:HE	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:f:31:LYS:HE3	42:f:71:THR:HA	1.89	0.54
42:g:538:ARG:HH21	42:g:540:LEU:HD21	1.73	0.54
45:n:44:ASN:OD1	45:n:45:ASP:N	2.40	0.54
1:7:35:LEU:O	9:IB:122:LYS:HD2	2.08	0.53
7:A5:76:GLU:OE1	11:B5:266:ARG:NH2	2.30	0.53
9:AD:252:LYS:NZ	50:AE:501:GTP:O3G	2.35	0.53
9:AJ:132:GLY:HA3	9:AJ:163:ILE:HG22	1.89	0.53
11:B2:131:ASP:N	11:B2:131:ASP:OD1	2.39	0.53
11:B3:385:LEU:HD23	12:S1:50:TRP:CZ2	2.43	0.53
9:BH:48:ASN:O	9:BH:62:ARG:NH2	2.42	0.53
9:BN:14:ASN:ND2	9:BN:67:ASP:OD2	2.41	0.53
9:BN:184:ASN:OD1	9:BN:398:TYR:OH	2.25	0.53
8:CI:42:ILE:HD11	25:V:240:LYS:HB3	1.91	0.53
8:CM:79:ARG:NH1	40:a3:16:GLY:O	2.41	0.53
9:CP:114:ASP:N	9:CP:114:ASP:OD1	2.34	0.53
14:D1:421:ASN:O	14:D1:425:ILE:HG13	2.07	0.53
8:DG:70:LEU:HB3	8:DG:98:ASP:HA	1.90	0.53
8:DI:437:VAL:O	9:DJ:391:ARG:NH2	2.32	0.53
9:DJ:268:PRO:HG2	9:DJ:300:MET:HG3	1.90	0.53
9:DP:280:GLN:NE2	31:Z:243:PHE:O	2.41	0.53
15:E:61:ASP:OD1	15:E:61:ASP:N	2.39	0.53
8:EA:70:LEU:HD23	8:EA:145:THR:HG23	1.89	0.53
8:EC:33:ASP:O	8:EC:60:LYS:NZ	2.41	0.53
9:EF:375:GLN:NE2	9:EF:423:GLN:OE1	2.34	0.53
8:EG:36:MET:SD	8:EG:61:HIS:NE2	2.82	0.53
8:EI:324:VAL:HG12	8:EI:326:LYS:H	1.73	0.53
9:EJ:60:VAL:HG11	9:FJ:281:TYR:HB3	1.89	0.53
15:F:125:ARG:NH2	15:F:246:GLU:OE2	2.41	0.53
8:FO:27:GLU:OE1	8:FO:243:ARG:NH2	2.41	0.53
9:GD:156:ARG:NH1	9:GD:197:ASP:OD1	2.39	0.53
9:GH:266:PHE:C	9:GH:267:MET:HE2	2.33	0.53
9:GL:61:PRO:HG2	9:GL:85:PHE:HA	1.90	0.53
8:HE:2:ARG:HB2	8:HE:242:LEU:HD23	1.89	0.53
9:HF:51:TYR:O	9:HF:62:ARG:NH2	2.42	0.53
8:HG:326:LYS:NZ	9:HH:208:TYR:O	2.35	0.53
9:HJ:257:MET:HE1	9:HJ:314:ALA:HB2	1.90	0.53
9:HL:226:ASN:HA	9:HL:229:VAL:HG12	1.90	0.53
9:IB:291:GLN:CD	36:Y0:51:TYR:HB3	2.32	0.53
9:IF:274:THR:OG1	9:IF:282:ARG:NH1	2.41	0.53
9:IH:330:MET:HG3	9:IH:351:THR:HG21	1.90	0.53
9:JF:61:PRO:CD	9:JF:84:ILE:HG22	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JL:331:LEU:HD11	8:JM:177:VAL:HA	1.89	0.53
9:JP:67:ASP:OD1	9:JP:68:LEU:N	2.40	0.53
9:KB:45:GLU:HG3	9:KB:46:ARG:HG2	1.89	0.53
8:KC:85:GLN:HE21	8:LC:282:TYR:HE2	1.54	0.53
21:L1:77:SER:HA	9:VF:359:ARG:HH12	1.72	0.53
8:LA:315:CYS:HB3	8:LA:377:MET:HE1	1.91	0.53
9:LD:108:GLU:OE1	9:LD:108:GLU:N	2.41	0.53
8:LM:276:ILE:HD11	8:LM:286:LEU:HD11	1.89	0.53
9:LN:395:LEU:O	9:LN:399:THR:OG1	2.25	0.53
9:ML:5:VAL:HB	9:ML:133:PHE:HD1	1.74	0.53
9:NF:267:MET:HE1	9:NF:373:ALA:HB3	1.89	0.53
8:NK:88:HIS:HB2	8:NK:91:GLN:NE2	2.23	0.53
25:O5:327:LYS:NZ	27:P6:52:GLU:O	2.42	0.53
8:OA:292:THR:HG21	8:OA:331:ALA:HB1	1.89	0.53
8:OE:172:TYR:HB2	8:OE:203:MET:HG2	1.90	0.53
9:OF:306:ARG:HG3	9:OF:340:TYR:HE2	1.71	0.53
8:OO:386:GLU:OE1	8:OO:386:GLU:N	2.40	0.53
9:PB:65:LEU:HD11	9:PB:85:PHE:CD1	2.43	0.53
9:PJ:247:ASN:HD22	8:PK:74:VAL:HG22	1.72	0.53
8:PO:217:LEU:HD21	8:PO:368:LEU:HD22	1.90	0.53
9:PP:150:LEU:HG	9:PP:154:LYS:HE2	1.89	0.53
9:PP:164:MET:SD	9:PP:166:THR:OG1	2.66	0.53
28:Q4:190:ARG:HE	28:Q4:191:PRO:HD2	1.72	0.53
9:QB:130:LEU:O	9:QB:162:ARG:NH1	2.38	0.53
8:QM:118:VAL:O	8:QM:122:ILE:HG12	2.08	0.53
11:R4:135:GLU:HG3	11:R4:139:LYS:HZ3	1.73	0.53
9:RF:48:ASN:O	9:RF:62:ARG:NH2	2.39	0.53
9:RF:285:THR:HB	9:RF:287:PRO:HD2	1.89	0.53
8:RG:1:MET:SD	8:RG:2:ARG:N	2.81	0.53
9:RJ:306:ARG:NH2	9:RJ:310:TYR:OH	2.41	0.53
9:RN:215:LEU:HD21	9:RN:273:LEU:HB3	1.89	0.53
12:S8:391:ALA:O	12:S8:394:LYS:HB2	2.07	0.53
9:SB:268:PRO:HG2	9:SB:300:MET:SD	2.48	0.53
9:SN:1:MET:SD	9:SN:2:ARG:N	2.81	0.53
25:U:265:HIS:O	25:U:273:VAL:HA	2.08	0.53
30:U8:289:THR:HG21	30:U9:409:ARG:HB3	1.89	0.53
9:UD:8:GLN:HE21	9:UD:14:ASN:HA	1.73	0.53
9:UD:156:ARG:NH1	9:UD:197:ASP:OD1	2.32	0.53
9:UH:309:ARG:NH2	9:UH:339:SER:O	2.40	0.53
9:UJ:309:ARG:HG3	9:UJ:426:GLN:HG3	1.90	0.53
8:UK:3:GLU:H	8:UK:133:GLN:HG2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UK:248:LEU:HD21	9:UL:222:TYR:HE2	1.73	0.53
30:V1:292:ILE:HG13	30:V1:294:GLU:H	1.72	0.53
30:V2:336:PHE:O	30:V2:473:ARG:NH2	2.41	0.53
30:V6:373:ASN:O	30:V6:377:LEU:HD12	2.08	0.53
30:V9:354:LYS:NZ	30:V9:459:ALA:HA	2.23	0.53
8:VC:276:ILE:HD11	8:VC:286:LEU:HD11	1.89	0.53
9:VD:309:ARG:NH2	9:VD:339:SER:O	2.41	0.53
9:VF:322:SER:O	8:VG:221:ARG:NH1	2.42	0.53
8:VG:183:GLU:HA	8:VG:186:ASN:HD22	1.73	0.53
9:VH:45:GLU:HG3	9:VH:46:ARG:HG2	1.90	0.53
8:VK:282:TYR:HE1	39:b:424:ARG:HB3	1.74	0.53
8:VO:93:ILE:HD13	8:VO:117:LEU:HG	1.90	0.53
30:W5:145:ARG:HD2	30:W5:151:PHE:CD1	2.44	0.53
8:WA:120:ASP:OD2	8:WA:121:ARG:NH2	2.37	0.53
8:WC:339:ARG:NH2	8:WC:342:GLN:HG2	2.23	0.53
8:WE:258:ASN:HD22	8:WE:352:LYS:HD3	1.74	0.53
9:WN:267:MET:N	9:WN:267:MET:SD	2.81	0.53
9:WP:207:LEU:HB3	9:WP:225:LEU:HG	1.90	0.53
34:X8:7:LEU:HG	34:X8:12:TYR:HB2	1.88	0.53
37:YH:223:ASP:OD1	37:YH:227:ASN:ND2	2.42	0.53
39:b:517:ILE:O	39:b:521:LYS:HG3	2.08	0.53
41:b3:366:LYS:HA	41:b3:369:GLN:HB3	1.91	0.53
41:b4:324:GLN:O	41:b4:328:ILE:HG12	2.08	0.53
46:i2:1343:LEU:O	46:i2:1347:CYS:N	2.34	0.53
46:i2:1461:TYR:HB2	46:i2:1469:LEU:HD11	1.90	0.53
4:6:101:TYR:N	8:IK:39:ASP:OD1	2.41	0.53
7:A5:2:ALA:HB3	33:X5:97:PRO:HD3	1.89	0.53
9:AD:272:PRO:HG3	9:AD:364:SER:HA	1.91	0.53
9:AF:164:MET:N	9:AF:197:ASP:OD2	2.40	0.53
9:AF:221:THR:HG21	33:X4:210:GLU:HA	1.90	0.53
8:AK:3:GLU:H	8:AK:133:GLN:HG2	1.72	0.53
9:AL:167:PHE:CE1	9:AL:233:MET:HG2	2.43	0.53
9:AL:189:VAL:HA	9:AL:192:LEU:HB2	1.90	0.53
9:AL:274:THR:HG22	9:AL:282:ARG:HH11	1.73	0.53
11:B1:6:PHE:HB3	11:B1:11:ARG:HH12	1.73	0.53
11:B5:270:ARG:HH21	11:B5:274:SER:HB2	1.72	0.53
9:BF:341:PHE:HB3	9:BF:348:ASN:ND2	2.22	0.53
8:BO:154:MET:HA	8:BO:157:LEU:HB2	1.89	0.53
10:C:320:ARG:CZ	9:HL:40:SER:HB3	2.38	0.53
8:CG:286:LEU:O	8:CG:373:ARG:NH1	2.41	0.53
9:CJ:256:ASN:HD22	9:CJ:350:LYS:HB2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:323:MET:HE1	8:CO:223:THR:HA	1.90	0.53
13:D:395:GLU:O	29:R:155:GLN:NE2	2.34	0.53
8:DG:58:ALA:O	31:X:419:LYS:NZ	2.33	0.53
9:DH:86:ARG:NH1	9:EF:281:TYR:O	2.42	0.53
9:DL:133:PHE:HD2	9:DL:164:MET:HE1	1.72	0.53
9:EB:164:MET:HE3	9:EB:196:THR:HA	1.90	0.53
9:EB:299:MET:HG3	9:EB:301:ALA:H	1.73	0.53
9:EB:309:ARG:HG3	9:EB:426:GLN:HG3	1.89	0.53
8:EE:70:LEU:HB3	8:EE:98:ASP:HA	1.90	0.53
8:EE:172:TYR:N	8:EE:204:VAL:O	2.35	0.53
8:EI:339:ARG:HH22	8:EI:342:GLN:HG2	1.73	0.53
9:EN:218:THR:HG22	31:Z:411:PRO:HB2	1.91	0.53
8:FA:279:GLU:OE2	8:FA:279:GLU:N	2.33	0.53
8:FA:345:ASP:OD2	9:FB:390:ARG:NH2	2.42	0.53
9:FB:173:PRO:HG2	9:FB:174:LYS:HD3	1.90	0.53
9:FH:54:ALA:HA	9:GH:283:ALA:HB2	1.89	0.53
9:FH:114:ASP:N	9:FH:114:ASP:OD1	2.37	0.53
8:FI:70:LEU:HD12	8:FI:145:THR:HG22	1.90	0.53
9:FN:125:GLU:OE2	9:FN:159:TYR:OH	2.23	0.53
8:GA:84:ARG:NH2	26:P1:67:THR:O	2.40	0.53
9:GB:69:GLU:OE1	9:GB:72:THR:OG1	2.25	0.53
8:GE:302:MET:N	8:GE:302:MET:SD	2.67	0.53
8:GI:297:GLU:O	8:GI:301:GLN:NE2	2.32	0.53
8:HA:386:GLU:O	8:HA:390:ARG:HG3	2.08	0.53
8:HM:429:GLU:HA	8:HM:429:GLU:OE1	2.08	0.53
9:HN:324:LYS:NZ	8:HO:220:GLU:O	2.24	0.53
8:HO:111:GLY:O	8:HO:115:VAL:HG23	2.09	0.53
9:HP:91:VAL:HG11	9:HP:116:VAL:HG12	1.90	0.53
8:IA:107:HIS:HB3	8:IA:108:TYR:CE1	2.42	0.53
8:IA:346:TRP:HA	9:IB:387:ALA:HB1	1.89	0.53
9:IH:211:CYS:O	9:IH:217:LEU:N	2.41	0.53
8:IO:224:TYR:HD2	50:IO:501:GTP:C6	2.27	0.53
8:IO:251:ASP:N	8:IO:254:GLU:OE2	2.42	0.53
19:J2:187:TYR:CD1	19:J2:188:GLN:N	2.77	0.53
9:JJ:237:THR:HG22	9:JJ:250:LEU:HD21	1.89	0.53
9:JL:131:GLN:OE1	9:JL:250:LEU:HD23	2.08	0.53
8:KE:367:ASP:N	8:KE:367:ASP:OD1	2.39	0.53
8:KK:85:GLN:O	8:LK:283:HIS:NE2	2.37	0.53
9:KN:54:ALA:HB3	9:KN:58:LYS:HB3	1.90	0.53
8:LA:124:LYS:NZ	8:MA:297:GLU:OE2	2.42	0.53
8:LK:249:ASN:OD1	9:LL:11:GLN:NE2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MH:249:ASP:N	9:MH:249:ASP:OD1	2.39	0.53
8:MM:388:TRP:HB3	8:MM:425:LEU:HD21	1.89	0.53
9:MN:238:THR:OG1	9:MN:318:ARG:NH2	2.40	0.53
15:N2:94:CYS:HB3	15:N2:126:ASN:HB3	1.90	0.53
9:NB:81:PHE:CE1	9:NB:84:ILE:HD12	2.43	0.53
8:NC:116:ASP:N	8:NC:116:ASP:OD1	2.39	0.53
9:NF:404:ASP:OD1	9:NF:404:ASP:N	2.41	0.53
8:NG:76:ASP:HA	8:NG:79:ARG:HG3	1.90	0.53
9:NH:3:GLU:HG2	9:NH:49:VAL:HA	1.90	0.53
9:NH:5:VAL:HB	9:NH:133:PHE:HD1	1.72	0.53
9:NH:201:CYS:SG	9:NH:265:PHE:HB3	2.47	0.53
8:NK:114:ILE:HD11	36:Y4:43:PRO:HG2	1.90	0.53
9:NP:135:LEU:HB3	9:NP:164:MET:HE1	1.90	0.53
24:O2:105:CYS:HB3	24:O2:108:GLY:H	1.73	0.53
9:OB:322:SER:OG	8:OC:222:PRO:O	2.26	0.53
9:OD:171:PRO:O	9:OD:380:ARG:NH1	2.36	0.53
9:OD:217:LEU:HD12	9:OD:220:PRO:HB3	1.91	0.53
9:OD:291:GLN:O	36:Y4:164:LYS:NZ	2.41	0.53
8:OE:107:HIS:HA	8:OE:152:LEU:HD23	1.90	0.53
9:OF:19:LYS:N	9:OF:19:LYS:HD3	2.24	0.53
9:OL:170:VAL:HG11	9:OL:377:LEU:HD21	1.89	0.53
8:OO:123:ARG:NH1	8:PO:297:GLU:OE2	2.38	0.53
23:P:51:GLU:OE2	23:P:55:ARG:NE	2.36	0.53
27:P3:176:MET:HE2	14:T5:334:HIS:HA	1.90	0.53
27:P5:132:PHE:HD2	27:P5:135:LEU:HD12	1.73	0.53
27:P5:156:CYS:O	27:P5:157:LEU:HB3	2.08	0.53
27:P6:157:LEU:CA	17:P9:56:LEU:HD11	2.38	0.53
27:P7:171:ARG:NH2	11:R5:20:ASN:O	2.41	0.53
8:PC:25:CYS:HA	8:PC:30:ILE:HD12	1.89	0.53
8:PG:105:ARG:HH21	8:PG:110:ILE:HG13	1.72	0.53
8:PM:254:GLU:H	8:PM:254:GLU:CD	2.16	0.53
28:Q3:52:THR:HG1	28:Q3:59:ALA:N	2.04	0.53
8:QC:188:ILE:O	8:QC:191:THR:OG1	2.26	0.53
9:QD:257:MET:SD	9:QD:312:THR:OG1	2.62	0.53
9:QH:318:ARG:HG2	9:QH:357:PRO:HA	1.90	0.53
9:QN:372:THR:HA	9:QN:422:TYR:HE1	1.73	0.53
9:RF:146:GLY:O	9:RF:149:THR:OG1	2.26	0.53
9:RP:337:ASN:HB3	9:RP:340:TYR:HD2	1.73	0.53
12:S1:393:LEU:HB2	12:S1:427:VAL:HG11	1.89	0.53
12:S3:202:ARG:O	12:S3:205:ARG:NH1	2.41	0.53
12:S4:188:THR:HA	12:S4:485:ARG:HH22	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S6:183:ARG:NH1	14:T4:396:GLN:HE22	2.04	0.53
9:SF:204:ASN:ND2	52:SF:502:GDP:N3	2.56	0.53
9:SJ:112:LEU:HB3	9:SJ:147:MET:HE1	1.90	0.53
9:SJ:311:LEU:N	9:SJ:370:ASN:O	2.39	0.53
8:SM:292:THR:HG21	8:SM:331:ALA:HB1	1.90	0.53
9:TB:330:MET:HE1	8:TC:177:VAL:HG12	1.91	0.53
8:TC:88:HIS:HB3	8:TC:91:GLN:HB2	1.90	0.53
9:TL:54:ALA:HA	9:UL:283:ALA:HB2	1.90	0.53
30:U8:440:THR:O	30:U8:444:LEU:HD12	2.08	0.53
9:UH:285:THR:HB	9:UH:287:PRO:HD2	1.89	0.53
9:UJ:266:PHE:CB	9:UJ:368:ILE:HD11	2.39	0.53
9:UL:198:GLU:HA	9:UL:264:HIS:HB2	1.89	0.53
30:V3:357:LEU:HA	30:V3:360:GLN:NE2	2.23	0.53
30:V7:262:TYR:O	30:V7:266:ASN:HB2	2.08	0.53
8:VM:139:HIS:O	8:VM:170:ALA:HA	2.07	0.53
30:W7:210:ASN:N	30:W7:210:ASN:OD1	2.41	0.53
9:WN:170:VAL:HG21	9:WN:201:CYS:HB2	1.90	0.53
35:XF:103:PHE:HD2	35:XF:121:MET:HE1	1.73	0.53
37:YC:57:ARG:NH2	37:YC:102:GLU:OE2	2.40	0.53
37:YE:97:PHE:HB3	37:YE:136:PRO:HB2	1.91	0.53
31:Z:263:ARG:NH2	31:Z:276:SER:O	2.42	0.53
41:b4:228:ALA:HA	41:b4:231:ARG:HH21	1.71	0.53
42:g:141:SER:HB2	42:g:148:ILE:HD11	1.90	0.53
42:g:528:TYR:HB2	42:g:538:ARG:HB3	1.89	0.53
43:i:22:PRO:O	43:i:23:GLN:HB2	2.08	0.53
46:i4:1329:GLU:OE2	46:i4:1386:TYR:OH	2.26	0.53
4:j1:315:ASN:O	4:j1:319:THR:HG23	2.08	0.53
1:0:55:ARG:HA	1:0:58:PHE:CG	2.43	0.53
3:3:371:LYS:HD3	9:GD:360:GLY:HA2	1.89	0.53
7:A1:74:LYS:HE3	7:A1:179:PHE:HD1	1.73	0.53
7:A1:309:PRO:HD3	7:A2:193:ASN:HD21	1.73	0.53
8:AA:322:ASP:HA	33:X4:52:GLY:HA3	1.89	0.53
9:AD:137:HIS:ND1	9:AD:144:GLY:O	2.33	0.53
9:AD:207:LEU:HB3	9:AD:225:LEU:HG	1.91	0.53
8:AE:239:THR:OG1	8:AE:243:ARG:NH1	2.41	0.53
8:AI:18:ASN:O	8:AI:22:GLU:HG2	2.08	0.53
9:AJ:323:MET:HE1	8:AK:224:TYR:CD2	2.44	0.53
11:B0:7:LYS:HZ1	14:D1:327:THR:HA	1.72	0.53
8:BC:70:LEU:HB3	8:BC:98:ASP:HA	1.90	0.53
8:BC:88:HIS:CE1	8:BC:90:GLU:HB3	2.44	0.53
9:BD:372:THR:HG21	9:BD:426:GLN:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BE:169:PHE:CE1	8:BE:235:VAL:HG22	2.43	0.53
9:BF:344:TRP:H	9:BF:344:TRP:CD1	2.27	0.53
8:BK:194:THR:O	8:BK:198:SER:OG	2.27	0.53
9:CD:36:TYR:OH	9:CD:40:SER:O	2.26	0.53
8:CI:186:ASN:OD1	8:CI:408:TYR:OH	2.23	0.53
8:CK:326:LYS:HZ1	9:CL:220:PRO:HG2	1.74	0.53
9:CN:102:ALA:HB1	9:CN:403:MET:HE1	1.89	0.53
9:DD:139:LEU:HD12	9:DD:170:VAL:HG12	1.89	0.53
8:DE:116:ASP:OD2	8:DE:117:LEU:N	2.41	0.53
8:DE:260:VAL:HB	9:DF:397:TRP:HZ2	1.74	0.53
9:DF:279:GLN:HG2	25:U:256:PHE:CG	2.44	0.53
9:DH:39:ASP:HA	17:K:52:PRO:HD2	1.89	0.53
8:DI:252:LEU:HA	8:DI:255:PHE:HE1	1.72	0.53
8:DM:2:ARG:HB3	8:DM:242:LEU:HD23	1.90	0.53
9:DN:327:ASP:N	9:DN:327:ASP:OD1	2.39	0.53
8:DO:88:HIS:CE1	8:DO:90:GLU:HB3	2.44	0.53
9:EF:321:MET:HE3	9:EF:322:SER:HB3	1.89	0.53
8:EM:67:PHE:HB2	8:EM:92:LEU:HD13	1.91	0.53
9:FD:216:LYS:HD3	25:U:462:ILE:HD11	1.90	0.53
9:FD:372:THR:HG21	9:FD:426:GLN:HB2	1.91	0.53
8:FE:413:MET:HE1	8:FE:417:GLU:HB2	1.91	0.53
9:GF:295:ASP:HA	36:Y2:203:ALA:HB3	1.90	0.53
9:GL:155:ILE:HG13	9:GL:164:MET:HE1	1.90	0.53
8:GO:288:VAL:O	8:GO:292:THR:HG22	2.08	0.53
9:HD:323:MET:HA	9:HD:326:VAL:HB	1.91	0.53
8:HE:53:PHE:HB3	8:HE:61:HIS:HB3	1.90	0.53
8:HG:33:ASP:OD1	8:HG:34:GLY:N	2.42	0.53
8:HK:372:GLN:HE21	8:HK:373:ARG:NH2	2.06	0.53
8:IC:167:LEU:HD13	8:IC:200:CYS:HB3	1.91	0.53
8:IC:276:ILE:HG13	8:IC:280:LYS:HB2	1.90	0.53
8:IG:294:ALA:HA	8:IG:297:GLU:OE1	2.08	0.53
9:IH:134:GLN:HE22	9:IH:165:ASN:C	2.16	0.53
9:IN:324:LYS:O	9:IN:328:GLU:N	2.32	0.53
8:IO:69:ASP:OD1	8:IO:70:LEU:N	2.42	0.53
19:J2:74:ARG:HD3	19:J2:78:LEU:HB2	1.90	0.53
9:JD:324:LYS:HG3	8:JE:210:TYR:HD1	1.72	0.53
8:JE:352:LYS:HD2	9:JF:178:THR:HA	1.89	0.53
9:JF:177:ASP:OD1	9:JF:177:ASP:N	2.40	0.53
9:JH:152:ILE:HG23	9:JH:164:MET:HE3	1.91	0.53
8:JI:217:LEU:HD21	8:JI:367:ASP:HB2	1.89	0.53
9:JJ:72:THR:O	9:JJ:75:SER:OG	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KB:138:SER:HA	9:KB:169:VAL:HB	1.89	0.53
9:KF:146:GLY:O	9:KF:149:THR:OG1	2.26	0.53
9:KL:255:VAL:HA	8:KM:407:TRP:CE2	2.44	0.53
9:KP:7:LEU:N	9:KP:134:GLN:O	2.34	0.53
21:L1:103:GLN:HA	8:WG:221:ARG:HB2	1.90	0.53
8:LC:172:TYR:CD1	8:LC:173:PRO:HD3	2.41	0.53
9:LF:390:ARG:HG2	44:h2:42:LEU:HD13	1.89	0.53
8:LG:163:LYS:HA	45:m:78:LYS:NZ	2.23	0.53
9:LJ:122:LYS:HG2	9:MJ:291:GLN:NE2	2.24	0.53
8:LK:56:THR:HA	8:MK:285:GLN:HB2	1.91	0.53
8:LO:211:ASP:HA	8:LO:214:ARG:HH21	1.72	0.53
22:M1:189:ARG:NH2	22:M1:197:GLU:OE1	2.34	0.53
9:MH:25:SER:HG	9:MH:51:TYR:HH	1.56	0.53
9:MJ:249:ASP:N	9:MJ:249:ASP:OD2	2.41	0.53
9:NB:150:LEU:HG	9:NB:154:LYS:HE2	1.90	0.53
8:NG:90:GLU:HB2	8:NG:121:ARG:HH21	1.74	0.53
8:NM:287:SER:C	8:NM:373:ARG:HH22	2.16	0.53
9:OB:67:ASP:HA	9:OB:143:THR:HG21	1.89	0.53
9:OD:289:LEU:HD21	9:OD:365:ALA:HB3	1.89	0.53
8:OE:3:GLU:H	8:OE:133:GLN:HG2	1.73	0.53
9:OH:170:VAL:HG11	9:OH:377:LEU:HD21	1.90	0.53
9:OH:249:ASP:H	9:OH:252:LYS:HG2	1.72	0.53
9:PF:31:ASP:OD1	9:PF:35:THR:N	2.37	0.53
9:PJ:60:VAL:HG11	9:QJ:281:TYR:HB3	1.89	0.53
9:PJ:313:VAL:HG13	9:PJ:367:PHE:HE1	1.74	0.53
8:PM:107:HIS:HA	8:PM:152:LEU:HD23	1.91	0.53
8:PM:248:LEU:HD13	8:PM:355:ILE:HD13	1.90	0.53
8:QM:350:GLY:HA2	9:QN:179:VAL:HG13	1.90	0.53
11:R1:30:ARG:HA	11:R1:30:ARG:NH1	2.23	0.53
9:RD:252:LYS:HE2	8:RE:100:ALA:HA	1.90	0.53
8:RI:113:GLU:H	8:RI:113:GLU:CD	2.15	0.53
9:RL:267:MET:HE1	9:RL:305:PRO:HD3	1.91	0.53
8:RM:212:ILE:HA	8:RM:215:ARG:HD2	1.89	0.53
8:RO:138:PHE:HA	8:RO:169:PHE:O	2.08	0.53
12:S2:39:HIS:HD2	12:S2:40:ARG:HG3	1.73	0.53
12:S2:403:ARG:O	12:S2:406:ARG:NE	2.41	0.53
9:SD:221:THR:N	9:SD:224:ASP:OD1	2.40	0.53
9:SL:178:THR:HB	9:SL:181:GLU:HB2	1.91	0.53
9:TB:238:THR:HG21	9:TB:318:ARG:HD3	1.89	0.53
8:TC:87:PHE:HD1	8:TC:92:LEU:HD21	1.72	0.53
8:TE:56:THR:HG22	8:TE:60:LYS:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TI:3:GLU:H	8:TI:133:GLN:HG2	1.73	0.53
8:TI:264:ARG:HH12	8:TI:428:LEU:HD22	1.73	0.53
9:TL:258:VAL:HB	8:TM:407:TRP:HZ2	1.73	0.53
9:TL:363:MET:HE3	9:TL:363:MET:HA	1.91	0.53
9:TN:8:GLN:HE21	9:TN:14:ASN:HA	1.73	0.53
30:U7:226:GLN:OE1	30:U7:230:ARG:NH2	2.41	0.53
30:U8:422:THR:O	30:U8:426:THR:HG22	2.08	0.53
9:UL:48:ASN:O	9:UL:62:ARG:NH2	2.42	0.53
9:UL:170:VAL:HG11	9:UL:377:LEU:HD21	1.90	0.53
9:UN:150:LEU:HG	9:UN:154:LYS:HE2	1.89	0.53
30:V8:280:PHE:O	30:V8:281:HIS:ND1	2.41	0.53
8:VC:282:TYR:OH	39:a:316:LYS:NZ	2.34	0.53
9:VD:86:ARG:HG2	9:VD:88:ASP:H	1.73	0.53
8:VE:219:ILE:HD12	8:VE:222:PRO:HB3	1.91	0.53
9:VH:54:ALA:HA	9:WH:283:ALA:HB2	1.90	0.53
9:VH:83:GLN:O	9:WH:281:TYR:OH	2.26	0.53
31:W:441:ILE:CD1	31:W:521:ILE:HG23	2.37	0.53
8:WA:117:LEU:O	8:WA:121:ARG:HG2	2.08	0.53
9:WD:322:SER:OG	8:WE:222:PRO:O	2.25	0.53
8:WK:346:TRP:O	9:WL:388:MET:HB3	2.09	0.53
34:X8:65:ARG:O	34:X8:68:ARG:NH1	2.41	0.53
34:X8:70:PRO:O	34:X8:151:LYS:NZ	2.37	0.53
35:XC:22:LEU:O	35:XC:27:LYS:NZ	2.41	0.53
35:XF:71:ILE:O	35:XF:151:THR:N	2.41	0.53
39:a:82:ILE:HA	39:a:87:VAL:HG23	1.89	0.53
42:f:19:VAL:HB	42:f:57:GLN:HE22	1.73	0.53
44:h2:59:PRO:HA	44:h2:62:GLU:HG2	1.90	0.53
43:i:9:SER:OG	43:i:10:ILE:N	2.40	0.53
45:n:4:ASN:OD1	45:n:26:ARG:NH2	2.40	0.53
47:p:483:TYR:CD2	47:p:483:TYR:O	2.61	0.53
4:5:159:HIS:ND1	4:5:162:ARG:HB2	2.23	0.53
5:8:32:ASN:OD1	5:8:32:ASN:N	2.34	0.53
7:A2:2:ALA:O	7:A2:3:LYS:HD3	2.09	0.53
7:A3:338:ILE:HG23	7:A4:206:ARG:HD3	1.89	0.53
9:AB:334:GLN:OE1	9:AB:348:ASN:N	2.41	0.53
9:AB:372:THR:HG21	9:AB:426:GLN:HB2	1.91	0.53
9:AB:420:SER:OG	37:YA:144:ARG:NH2	2.42	0.53
8:AE:194:THR:O	8:AE:266:HIS:NE2	2.38	0.53
9:AJ:48:ASN:O	9:AJ:62:ARG:NH2	2.41	0.53
9:AJ:100:ASN:HB3	9:AJ:103:LYS:HB2	1.91	0.53
8:AO:283:HIS:HB3	8:MO:88:HIS:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:247:GLU:OE2	10:B:247:GLU:N	2.30	0.53
9:BL:267:MET:HE1	9:BL:371:SER:HB3	1.89	0.53
9:BN:8:GLN:HE21	9:BN:14:ASN:HA	1.73	0.53
10:C:379:MET:N	10:C:379:MET:SD	2.81	0.53
12:C3:97:ASP:HB2	17:P9:90:THR:HG23	1.90	0.53
12:C4:293:THR:HG22	12:C5:411:LEU:HD23	1.89	0.53
9:CB:362:LYS:NZ	17:H:294:ASP:OD1	2.37	0.53
8:CK:286:LEU:O	8:CK:373:ARG:NH1	2.41	0.53
9:DH:1:MET:HE3	9:DH:2:ARG:H	1.74	0.53
9:DH:327:ASP:OD1	9:DH:327:ASP:N	2.39	0.53
8:DK:297:GLU:HG3	8:DK:299:ALA:H	1.74	0.53
9:DP:198:GLU:HA	9:DP:264:HIS:HB2	1.90	0.53
9:EN:267:MET:HE3	9:EN:299:MET:HG3	1.89	0.53
8:FA:276:ILE:HG13	8:FA:280:LYS:HG3	1.88	0.53
9:FB:276:ARG:HH22	31:W:475:ASN:HB3	1.72	0.53
9:FH:8:GLN:HB3	9:FH:65:LEU:HA	1.91	0.53
8:FK:322:ASP:OD2	8:FK:373:ARG:NH2	2.41	0.53
8:GE:317:MET:HB3	8:GE:353:VAL:HA	1.91	0.53
8:HA:258:ASN:HD22	8:HA:352:LYS:HD3	1.73	0.53
8:HE:22:GLU:O	8:HE:26:LEU:HG	2.08	0.53
8:IE:2:ARG:CZ	8:IE:133:GLN:HB2	2.38	0.53
8:IG:234:ILE:O	8:IG:238:ILE:HG12	2.08	0.53
9:IJ:344:TRP:H	9:IJ:344:TRP:CD1	2.26	0.53
8:IK:298:PRO:HG2	36:Y1:106:TYR:CD2	2.44	0.53
8:IM:121:ARG:NH1	8:IM:124:LYS:HB3	2.21	0.53
19:J3:78:LEU:HD22	19:J3:79:PRO:HD2	1.91	0.53
8:JC:213:CYS:SG	8:JC:226:ASN:ND2	2.82	0.53
9:JF:251:ARG:O	9:JF:255:VAL:HG22	2.08	0.53
9:JH:268:PRO:C	9:JH:299:MET:HE1	2.34	0.53
8:JI:240:ALA:HB1	8:JI:356:ASN:HD22	1.73	0.53
9:JJ:50:TYR:OH	9:JJ:237:THR:OG1	2.22	0.53
9:JN:6:HIS:CD2	9:JN:63:ALA:HA	2.43	0.53
9:JP:354:CYS:SG	9:JP:356:ILE:HG22	2.48	0.53
8:JQ:255:PHE:O	8:JQ:259:LEU:HB2	2.09	0.53
9:KP:309:ARG:HG3	9:KP:426:GLN:HG3	1.91	0.53
9:LF:119:VAL:O	9:LF:122:LYS:HB2	2.09	0.53
9:LN:239:CYS:SG	9:LN:248:ALA:N	2.81	0.53
9:LP:125:GLU:OE2	9:LP:159:TYR:OH	2.26	0.53
9:MB:279:GLN:HG3	9:MB:282:ARG:NH2	2.23	0.53
9:MD:306:ARG:HB2	43:i:52:ALA:HB2	1.90	0.53
9:MJ:309:ARG:HG3	9:MJ:426:GLN:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MK:180:ALA:HB3	8:MK:183:GLU:HB3	1.90	0.53
9:ML:242:PHE:HD1	9:ML:356:ILE:HB	1.74	0.53
8:NA:85:GLN:O	8:OA:283:HIS:NE2	2.41	0.53
9:NH:323:MET:SD	9:NH:353:VAL:HG11	2.49	0.53
8:NK:107:HIS:HA	8:NK:152:LEU:HD23	1.90	0.53
8:NM:53:PHE:CG	8:NM:61:HIS:O	2.61	0.53
8:NM:102:ASN:HD21	8:NM:407:TRP:HB3	1.74	0.53
9:NN:115:SER:HB2	36:Y5:206:VAL:HG21	1.90	0.53
24:O2:150:GLU:OE1	24:O2:167:MET:HE3	2.09	0.53
17:O8:58:PRO:HD3	27:P3:157:LEU:HD11	1.89	0.53
8:OA:51:THR:HG21	8:OA:243:ARG:HG2	1.90	0.53
9:OD:187:LEU:O	9:OD:191:GLN:NE2	2.41	0.53
9:OJ:268:PRO:HA	9:OJ:367:PHE:O	2.08	0.53
9:OL:165:ASN:HB2	9:OL:200:TYR:HE2	1.73	0.53
9:OL:237:THR:HG22	9:OL:250:LEU:HD21	1.90	0.53
8:OM:255:PHE:O	8:OM:259:LEU:HG	2.08	0.53
9:ON:324:LYS:NZ	9:ON:324:LYS:O	2.42	0.53
8:OO:239:THR:HA	8:OO:242:LEU:HD13	1.90	0.53
9:PJ:22:GLU:O	9:PJ:25:SER:OG	2.24	0.53
9:PL:258:VAL:HB	8:PM:407:TRP:HE1	1.73	0.53
9:PL:344:TRP:CD1	9:PL:344:TRP:H	2.26	0.53
28:Q1:50:LYS:NZ	12:S5:310:ARG:HD3	2.22	0.53
9:QF:73:MET:SD	9:QF:73:MET:N	2.65	0.53
9:QF:136:THR:HG22	9:QF:167:PHE:HB2	1.90	0.53
9:QH:252:LYS:NZ	50:QI:501:GTP:O3G	2.31	0.53
8:QI:311:LYS:HE3	8:QI:344:VAL:HG12	1.90	0.53
9:QJ:130:LEU:O	9:QJ:162:ARG:NH1	2.41	0.53
8:QK:70:LEU:HB3	8:QK:98:ASP:HA	1.90	0.53
9:QP:156:ARG:NH1	9:QP:197:ASP:OD1	2.40	0.53
11:R3:303:ASP:O	11:R3:307:LYS:HG2	2.09	0.53
8:RC:2:ARG:HB3	8:RC:242:LEU:HD23	1.91	0.53
9:RD:271:ALA:HB1	9:RD:289:LEU:HD22	1.90	0.53
8:RE:116:ASP:N	8:RE:116:ASP:OD1	2.41	0.53
9:RF:324:LYS:HG3	8:RG:222:PRO:HD2	1.90	0.53
9:RH:379:LYS:NZ	9:RH:416:ASN:OD1	2.41	0.53
8:RI:3:GLU:OE2	8:RI:64:ARG:NH2	2.42	0.53
9:RL:10:GLY:O	9:RL:14:ASN:ND2	2.42	0.53
9:RN:372:THR:HG21	9:RN:426:GLN:HB2	1.90	0.53
12:S2:71:ARG:HH21	12:S3:227:LEU:HD22	1.72	0.53
12:S5:110:SER:HA	12:S6:451:THR:HG21	1.90	0.53
8:SA:7:ILE:HB	8:SA:137:ILE:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SG:298:PRO:HG3	8:SG:308:ARG:HE	1.72	0.53
9:SL:31:ASP:OD1	9:SL:35:THR:N	2.41	0.53
8:TC:248:LEU:HD21	9:TD:222:TYR:HE2	1.72	0.53
9:TD:7:LEU:N	9:TD:134:GLN:O	2.40	0.53
8:TE:286:LEU:O	8:TE:373:ARG:NH1	2.42	0.53
9:TJ:207:LEU:HD22	9:TJ:228:LEU:HD12	1.89	0.53
30:U8:464:ILE:HA	30:U8:468:LYS:HE3	1.90	0.53
8:UC:56:THR:HA	8:VC:285:GLN:HB2	1.90	0.53
8:UC:328:VAL:HG11	8:UC:353:VAL:HG11	1.90	0.53
9:UF:372:THR:HA	9:UF:422:TYR:HE1	1.73	0.53
8:UI:213:CYS:HA	8:UI:217:LEU:HD23	1.90	0.53
8:UM:147:SER:OG	8:UM:190:THR:OG1	2.26	0.53
30:V0:352:ASP:HA	30:V0:355:ASN:HD21	1.73	0.53
8:VA:2:ARG:HH11	8:VA:242:LEU:HA	1.73	0.53
8:VC:93:ILE:HD13	8:VC:117:LEU:HG	1.89	0.53
8:VG:41:THR:HG23	8:VG:42:ILE:H	1.72	0.53
8:VI:133:GLN:HG2	8:VI:252:LEU:HD23	1.90	0.53
9:VJ:371:SER:O	9:VJ:422:TYR:OH	2.24	0.53
8:VO:60:LYS:NZ	8:VO:85:GLN:O	2.30	0.53
8:VO:158:SER:HA	8:VO:166:LYS:NZ	2.24	0.53
8:WE:437:VAL:O	9:WF:391:ARG:NH2	2.28	0.53
9:WF:257:MET:HE2	9:WF:314:ALA:HB2	1.90	0.53
9:WH:51:TYR:HB3	9:WH:59:TYR:HB3	1.90	0.53
8:WK:107:HIS:HA	8:WK:152:LEU:HD23	1.91	0.53
8:WM:121:ARG:HH21	8:WM:124:LYS:HD2	1.72	0.53
31:Y:550:GLN:HE22	31:Y:554:GLN:HE21	1.55	0.53
36:Y1:52:SER:OG	36:Y1:53:PHE:N	2.37	0.53
42:e:125:TYR:HD1	42:e:141:SER:HA	1.74	0.53
1:0:50:SER:HA	1:0:53:ARG:HD3	1.91	0.53
3:3:193:GLN:O	3:3:197:GLU:HG2	2.07	0.53
6:A:51:MET:HB2	15:N2:39:LEU:HD13	1.90	0.53
7:A1:76:GLU:OE1	11:B1:266:ARG:NH1	2.41	0.53
7:A3:222:ASN:O	7:A3:226:GLU:HG2	2.09	0.53
7:A3:318:GLU:O	7:A3:321:THR:OG1	2.23	0.53
8:AA:322:ASP:OD2	8:AA:373:ARG:NH2	2.41	0.53
9:AB:306:ARG:NH1	37:YA:24:GLU:OE1	2.41	0.53
9:AH:372:THR:HA	9:AH:422:TYR:CE1	2.43	0.53
9:AH:377:LEU:O	9:AH:381:ILE:HG12	2.09	0.53
8:AO:36:MET:HA	8:AO:36:MET:HE2	1.90	0.53
9:AP:8:GLN:HG2	9:AP:14:ASN:HA	1.90	0.53
9:BB:253:LEU:HA	9:BB:350:LYS:HE3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BD:8:GLN:HE21	9:BD:14:ASN:HA	1.74	0.53
9:BD:313:VAL:HG13	9:BD:367:PHE:HE1	1.73	0.53
8:BE:259:LEU:O	8:BE:380:ASN:ND2	2.32	0.53
9:BL:7:LEU:HB2	9:BL:135:LEU:HG	1.91	0.53
12:C2:330:ILE:O	12:C2:334:ASN:ND2	2.41	0.53
8:CE:188:ILE:O	8:CE:191:THR:OG1	2.27	0.53
8:CG:289:ALA:O	8:CG:293:ASN:ND2	2.42	0.53
8:CK:188:ILE:O	8:CK:191:THR:OG1	2.25	0.53
8:CM:171:ILE:HD13	8:CM:204:VAL:HG13	1.89	0.53
9:DB:344:TRP:HZ3	8:DC:403:ALA:HB2	1.72	0.53
9:DL:323:MET:HE1	8:DM:224:TYR:CE2	2.43	0.53
8:DM:297:GLU:O	8:DM:301:GLN:NE2	2.38	0.53
8:DO:297:GLU:HG3	8:DO:299:ALA:H	1.74	0.53
8:EA:339:ARG:O	8:EA:339:ARG:NE	2.41	0.53
9:EF:74:ASP:OD1	9:EF:77:ARG:NH2	2.41	0.53
8:FK:254:GLU:O	8:FK:258:ASN:ND2	2.42	0.53
8:FM:167:LEU:HD11	8:FM:256:GLN:HE21	1.73	0.53
9:FN:324:LYS:HD3	8:FO:210:TYR:CD1	2.43	0.53
8:FO:171:ILE:HA	8:FO:204:VAL:HG13	1.90	0.53
16:G:58:ILE:HA	16:G:61:LYS:HE3	1.90	0.53
8:GA:203:MET:HE1	8:GA:267:PHE:HB3	1.91	0.53
9:GB:118:ASP:OD1	9:GB:121:ARG:NH2	2.32	0.53
9:GB:323:MET:N	9:GB:323:MET:SD	2.77	0.53
8:GC:324:VAL:HG12	8:GC:326:LYS:H	1.73	0.53
9:GD:54:ALA:HA	9:HD:283:ALA:HB2	1.90	0.53
9:GD:159:TYR:HB3	9:GD:162:ARG:HG2	1.91	0.53
9:GF:6:HIS:CE1	9:GF:8:GLN:HG2	2.44	0.53
9:GH:174:LYS:HD3	9:GH:175:VAL:HG23	1.90	0.53
8:GI:2:ARG:NH2	9:GJ:71:GLY:HA3	2.22	0.53
9:GN:195:ASN:N	9:GN:195:ASN:OD1	2.42	0.53
8:GO:85:GLN:O	8:HO:283:HIS:NE2	2.37	0.53
9:HH:107:THR:OG1	9:HH:108:GLU:N	2.39	0.53
8:HI:367:ASP:OD1	8:HI:367:ASP:N	2.40	0.53
8:HM:53:PHE:HA	8:HM:62:VAL:O	2.08	0.53
8:IA:173:PRO:O	8:IA:390:ARG:NH2	2.42	0.53
8:IA:306:ASP:OD1	8:IA:308:ARG:NE	2.41	0.53
9:IH:147:MET:HA	9:IH:150:LEU:HB3	1.90	0.53
9:IJ:285:THR:HB	9:IJ:287:PRO:HD2	1.90	0.53
9:IP:77:ARG:HB2	4:j1:63:ARG:NH2	2.23	0.53
19:J5:33:ARG:NH2	19:J5:81:ILE:O	2.42	0.53
9:JF:86:ARG:NH1	9:KD:278:SER:HA	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JI:164:LYS:HE3	8:JI:164:LYS:HA	1.89	0.53
8:JK:236:SER:OG	8:JK:243:ARG:NH2	2.42	0.53
9:JL:257:MET:HB3	9:JL:266:PHE:HZ	1.74	0.53
9:JN:6:HIS:CE1	9:JN:8:GLN:HG2	2.43	0.53
8:JO:258:ASN:HB2	8:JO:352:LYS:HZ3	1.74	0.53
9:JP:325:GLU:HA	9:JP:328:GLU:HB3	1.90	0.53
8:JQ:271:THR:HB	8:JQ:377:MET:HB3	1.89	0.53
20:K1:35:LEU:HA	9:UB:280:GLN:HE22	1.73	0.53
8:KA:1:MET:HG2	8:KA:2:ARG:H	1.73	0.53
8:KG:296:PHE:CZ	8:KG:377:MET:HE1	2.44	0.53
9:KH:149:THR:HB	9:KH:191:GLN:HG2	1.89	0.53
9:KL:156:ARG:NH1	9:KL:197:ASP:OD1	2.41	0.53
8:KM:68:VAL:HG12	8:KM:93:ILE:HB	1.91	0.53
9:LD:271:ALA:HB2	9:LD:293:MET:HG2	1.89	0.53
8:LM:298:PRO:HA	8:LM:301:GLN:HG2	1.90	0.53
9:LN:372:THR:HG21	9:LN:426:GLN:HB2	1.89	0.53
9:LP:173:PRO:HG2	9:LP:174:LYS:HD3	1.91	0.53
8:MA:3:GLU:OE2	8:MA:64:ARG:NH2	2.42	0.53
9:MB:344:TRP:HB2	8:MC:401:LYS:HZ1	1.74	0.53
8:MC:324:VAL:HG12	8:MC:326:LYS:H	1.74	0.53
9:MH:8:GLN:HE21	9:MH:14:ASN:HA	1.73	0.53
8:MK:290:GLU:N	8:MK:290:GLU:OE1	2.41	0.53
9:ML:248:ALA:HA	9:ML:252:LYS:HD2	1.90	0.53
8:NC:3:GLU:HB3	8:NC:132:LEU:HA	1.90	0.53
8:NE:368:LEU:H	8:NE:368:LEU:HD23	1.74	0.53
8:NE:413:MET:HE1	8:NE:417:GLU:HB2	1.90	0.53
8:NE:413:MET:CE	8:NE:417:GLU:HB2	2.39	0.53
9:NF:285:THR:HG23	9:NF:288:GLU:H	1.72	0.53
9:NJ:324:LYS:NZ	8:NK:210:TYR:O	2.40	0.53
8:NK:96:LYS:HE3	36:Y4:43:PRO:HA	1.91	0.53
9:NN:268:PRO:HG2	9:NN:300:MET:HE3	1.91	0.53
8:NO:328:VAL:O	8:NO:332:ILE:HG12	2.07	0.53
9:OH:20:PHE:CZ	9:OH:233:MET:HB2	2.44	0.53
8:OK:141:PHE:HB2	8:OK:173:PRO:HD3	1.90	0.53
9:ON:34:GLY:HA3	9:ON:58:LYS:HZ3	1.74	0.53
9:OP:73:MET:N	9:OP:73:MET:SD	2.82	0.53
27:P6:86:PHE:O	27:P6:87:PHE:CG	2.60	0.53
27:P6:134:CYS:O	27:P6:136:MET:HG2	2.09	0.53
9:PB:36:TYR:CE2	9:PB:44:LEU:HD13	2.44	0.53
9:PH:4:ILE:HD11	9:PH:250:LEU:HD11	1.90	0.53
8:PK:185:TYR:CD1	8:PK:398:MET:HE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PO:75:VAL:HG12	8:PO:79:ARG:HE	1.73	0.53
8:QC:9:VAL:N	8:QC:138:PHE:O	2.34	0.53
8:QC:437:VAL:O	9:QD:391:ARG:NH2	2.41	0.53
9:QD:257:MET:HB3	9:QD:266:PHE:CZ	2.44	0.53
8:QE:404:PHE:CD1	8:QE:407:TRP:HD1	2.25	0.53
8:QG:346:TRP:CD1	9:QH:391:ARG:HG3	2.43	0.53
8:QK:51:THR:HG21	8:QK:243:ARG:HG2	1.91	0.53
8:QK:108:TYR:HA	8:QK:112:LYS:HE3	1.91	0.53
8:RE:328:VAL:HG21	8:RE:355:ILE:HD11	1.89	0.53
8:RG:269:LEU:HD21	8:RG:384:ILE:HB	1.89	0.53
8:RO:147:SER:OG	8:RO:190:THR:OG1	2.25	0.53
9:SB:138:SER:HA	9:SB:169:VAL:HB	1.90	0.53
9:SF:136:THR:HG23	9:SF:167:PHE:HB3	1.91	0.53
9:SF:302:ALA:HB3	9:SF:377:LEU:HD11	1.90	0.53
8:SI:75:VAL:HG12	8:SI:79:ARG:HE	1.72	0.53
9:SJ:274:THR:HB	9:SJ:278:SER:HB2	1.91	0.53
8:SM:70:LEU:HB3	8:SM:98:ASP:HA	1.90	0.53
25:T:157:ASN:ND2	25:T:161:ASP:OD2	2.41	0.53
25:T:194:LEU:HD22	25:T:199:ILE:HD12	1.90	0.53
14:T2:238:VAL:HB	14:T3:351:ARG:HG2	1.91	0.53
14:T3:165:PRO:HD2	14:T3:418:VAL:HG11	1.89	0.53
30:U1:309:ASN:OD1	30:U1:310:MET:N	2.41	0.53
30:U3:73:ARG:NH2	30:U7:310:MET:HG3	2.22	0.53
30:U3:100:ASP:O	30:U3:104:ARG:HG2	2.08	0.53
30:U3:389:LEU:HB2	30:U3:423:ILE:HG21	1.91	0.53
30:U3:390:LYS:HE2	30:U4:279:PHE:CE2	2.44	0.53
30:U3:390:LYS:HD3	30:U4:277:ILE:HG23	1.90	0.53
8:UE:297:GLU:O	8:UE:301:GLN:NE2	2.37	0.53
9:UL:207:LEU:HG	9:UL:225:LEU:HG	1.91	0.53
8:UM:51:THR:HG21	8:UM:243:ARG:HG2	1.91	0.53
9:UN:52:ASN:HB3	9:UN:60:VAL:HG12	1.90	0.53
9:UN:316:VAL:HG22	9:UN:352:ALA:HB3	1.89	0.53
8:UO:209:ILE:HD12	8:UO:227:LEU:HD23	1.90	0.53
30:V1:201:ARG:HG2	30:V1:461:THR:HG23	1.91	0.53
30:V4:128:ASP:HA	30:V4:131:ILE:HG22	1.89	0.53
8:VA:191:THR:HG21	8:VA:425:LEU:HD22	1.91	0.53
9:VD:273:LEU:O	9:VD:292:GLN:NE2	2.41	0.53
8:VK:297:GLU:O	8:VK:301:GLN:NE2	2.37	0.53
9:VN:202:ILE:HD11	9:VN:207:LEU:HD12	1.91	0.53
8:VO:377:MET:HE3	8:VO:378:LEU:H	1.74	0.53
30:W2:301:ASN:HB3	30:W2:305:ARG:NH1	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WM:172:TYR:HH	8:WM:388:TRP:CD1	2.26	0.53
8:WM:269:LEU:HD21	8:WM:384:ILE:HD12	1.90	0.53
35:XC:96:ASP:OD1	35:XC:146:THR:OG1	2.24	0.53
35:XF:81:LYS:HD3	35:XF:161:ARG:HD2	1.91	0.53
35:XF:117:PHE:O	35:XF:118:ILE:HB	2.08	0.53
31:Y:245:ASP:N	31:Y:245:ASP:OD1	2.39	0.53
31:Y:595:ILE:HG22	31:Y:597:GLN:H	1.72	0.53
31:Y:692:ILE:HD12	31:Y:692:ILE:H	1.73	0.53
36:Y1:189:GLU:OE2	36:Y1:189:GLU:N	2.36	0.53
37:YB:221:GLY:H	37:YB:224:ALA:HB2	1.72	0.53
39:d:428:VAL:O	39:d:432:GLU:HG2	2.08	0.53
4:j1:127:GLU:H	4:j1:127:GLU:CD	2.14	0.53
43:k:211:PHE:HA	43:k:214:LEU:HD23	1.91	0.53
47:o:137:GLN:HA	47:o:140:PHE:HB2	1.90	0.53
48:r:135:LYS:HD3	48:r:136:GLU:H	1.73	0.53
4:5:349:PRO:HD2	4:5:368:LYS:HA	1.91	0.53
9:AD:289:LEU:HD21	9:AD:365:ALA:HB3	1.90	0.53
9:AL:87:PRO:HD3	9:BL:281:TYR:CD2	2.44	0.53
9:AL:372:THR:HA	9:AL:422:TYR:CE1	2.44	0.53
11:B0:26:THR:HA	11:B0:29:GLU:HG3	1.91	0.53
11:B2:71:VAL:HG13	11:B2:179:LYS:HG3	1.91	0.53
9:BD:45:GLU:OE1	9:BD:46:ARG:NH2	2.40	0.53
8:BI:139:HIS:NE2	8:BI:168:GLU:OE1	2.41	0.53
9:BJ:217:LEU:HB3	9:BJ:220:PRO:HD3	1.91	0.53
9:CB:216:LYS:HA	22:M1:191:ARG:NH2	2.24	0.53
9:DB:236:VAL:HG13	9:DB:237:THR:HG23	1.91	0.53
8:DE:295:CYS:HB3	8:DE:377:MET:CE	2.39	0.53
9:DH:180:VAL:HG23	9:DH:184:ASN:HD21	1.73	0.53
8:DI:27:GLU:HG2	8:DI:243:ARG:HH21	1.72	0.53
9:DL:156:ARG:NH1	9:DL:197:ASP:OD1	2.40	0.53
8:DM:70:LEU:HA	8:DM:95:GLY:HA3	1.91	0.53
8:DO:167:LEU:HD23	8:DO:202:PHE:HE2	1.73	0.53
8:EA:20:CYS:SG	8:EA:21:TRP:N	2.82	0.53
9:ED:61:PRO:HD3	9:ED:84:ILE:HG12	1.91	0.53
8:EG:3:GLU:HA	8:EG:51:THR:HA	1.91	0.53
9:EH:276:ARG:HD2	25:V:382:PRO:HB2	1.91	0.53
8:EI:372:GLN:HE22	31:Y:418:PHE:HD1	1.57	0.53
8:EO:2:ARG:HB3	8:EO:242:LEU:HD23	1.89	0.53
8:FE:108:TYR:HA	8:FE:112:LYS:HE3	1.91	0.53
9:FH:274:THR:HB	9:FH:278:SER:HB2	1.91	0.53
8:FM:262:TYR:OH	9:FN:391:ARG:O	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GA:190:THR:O	8:GA:193:THR:OG1	2.25	0.53
9:GB:337:ASN:HB3	9:GB:340:TYR:HD2	1.73	0.53
8:GG:206:ASN:OD1	50:GG:501:GTP:N2	2.42	0.53
8:HC:80:THR:O	8:HC:84:ARG:NH2	2.42	0.53
9:HD:26:ASP:OD1	9:HD:359:ARG:NH1	2.39	0.53
9:HD:87:PRO:HA	9:HD:90:PHE:CE1	2.43	0.53
8:HG:431:ASP:O	8:HG:435:VAL:HG23	2.08	0.53
9:HH:257:MET:HE1	9:HH:314:ALA:HB2	1.90	0.53
9:HH:330:MET:HB3	9:HH:349:VAL:HG11	1.89	0.53
9:HL:229:VAL:HG22	9:HL:233:MET:HE3	1.89	0.53
9:HL:396:HIS:O	9:HL:400:GLY:N	2.37	0.53
8:IG:352:LYS:NZ	9:IH:179:VAL:H	2.07	0.53
8:II:321:GLY:HA2	8:II:359:PRO:CD	2.33	0.53
9:IL:113:VAL:HG11	9:IL:150:LEU:HD23	1.91	0.53
8:IM:255:PHE:O	8:IM:259:LEU:HD13	2.09	0.53
9:JD:330:MET:SD	9:JD:330:MET:N	2.70	0.53
8:JG:252:LEU:HD12	8:JG:252:LEU:H	1.74	0.53
9:JN:330:MET:HA	9:JN:333:VAL:HG12	1.91	0.53
8:JO:185:TYR:O	8:JO:189:LEU:HD12	2.09	0.53
8:KA:259:LEU:HD11	8:KA:378:LEU:HB3	1.90	0.53
9:KB:398:TYR:HB3	9:KB:403:MET:HE3	1.90	0.53
9:KD:139:LEU:HD12	9:KD:170:VAL:HG12	1.91	0.53
8:KG:60:LYS:HE2	8:LG:283:HIS:CE1	2.43	0.53
8:KM:220:GLU:HG2	8:KM:221:ARG:HG3	1.91	0.53
9:LD:278:SER:OG	9:LD:282:ARG:NH2	2.41	0.53
9:LJ:390:ARG:NH2	43:j:93:ASP:O	2.42	0.53
9:MF:242:PHE:HB3	9:MF:356:ILE:HD12	1.90	0.53
8:MG:35:GLN:NE2	31:X:67:ASP:OD2	2.42	0.53
8:NA:291:ILE:HB	8:NA:375:VAL:HG11	1.90	0.53
8:NK:63:PRO:HG2	8:NK:87:PHE:CE1	2.43	0.53
8:NK:153:LEU:O	8:NK:157:LEU:HB2	2.09	0.53
9:NL:305:PRO:HA	9:NL:373:ALA:HB2	1.91	0.53
8:NM:34:GLY:O	8:NM:60:LYS:HB2	2.09	0.53
8:NM:223:THR:OG1	8:NM:224:TYR:N	2.41	0.53
8:NO:88:HIS:ND1	8:NO:90:GLU:OE1	2.42	0.53
8:NO:186:ASN:OD1	8:NO:408:TYR:OH	2.22	0.53
25:O5:330:ILE:HG13	25:O5:333:LYS:HB2	1.91	0.53
17:O9:185:GLU:OE1	30:W5:33:VAL:HA	2.09	0.53
9:OB:268:PRO:HG2	9:OB:300:MET:HE2	1.91	0.53
9:OH:132:GLY:HA2	9:OH:162:ARG:HG3	1.89	0.53
9:OH:232:THR:HG21	9:OH:268:PRO:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OJ:305:PRO:HA	9:OJ:373:ALA:HB2	1.91	0.53
8:OM:107:HIS:HA	8:OM:152:LEU:HD23	1.89	0.53
9:ON:237:THR:HG22	9:ON:250:LEU:HD21	1.89	0.53
27:P7:178:PHE:N	11:R4:125:ASP:OD1	2.42	0.53
17:P9:144:GLU:O	17:P9:146:ARG:NH1	2.42	0.53
8:PC:56:THR:HA	8:QC:285:GLN:HB2	1.90	0.53
8:PE:269:LEU:HD22	8:PE:303:VAL:HG21	1.90	0.53
8:PG:151:SER:HB3	8:PG:193:THR:HG21	1.89	0.53
28:Q1:122:ALA:HB1	28:Q1:133:ARG:HH22	1.73	0.53
9:QH:198:GLU:HA	9:QH:264:HIS:HB2	1.89	0.53
8:QK:154:MET:SD	8:QK:193:THR:HG22	2.49	0.53
9:QN:330:MET:HB3	9:QN:349:VAL:HG11	1.90	0.53
8:QO:141:PHE:HD2	8:QO:173:PRO:HD3	1.74	0.53
8:QO:227:LEU:HD21	50:QO:501:GTP:HN21	1.72	0.53
9:QP:267:MET:CE	9:QP:299:MET:HE3	2.38	0.53
9:QP:314:ALA:HB3	9:QP:368:ILE:HG23	1.90	0.53
11:R4:200:SER:OG	11:R4:202:LYS:NZ	2.42	0.53
8:RC:311:LYS:H	8:RC:382:THR:HG22	1.73	0.53
8:RC:388:TRP:HB3	8:RC:425:LEU:HD21	1.90	0.53
9:RH:273:LEU:O	9:RH:292:GLN:NE2	2.41	0.53
9:RJ:31:ASP:OD1	9:RJ:35:THR:N	2.42	0.53
8:RO:286:LEU:HG	8:RO:373:ARG:HH11	1.73	0.53
8:RO:360:PRO:O	8:RO:370:LYS:NZ	2.36	0.53
12:S2:484:LEU:HB3	30:W0:386:GLU:CD	2.34	0.53
12:S4:202:ARG:NH2	12:S4:216:GLU:OE1	2.41	0.53
9:TB:210:ILE:O	9:TB:214:THR:N	2.40	0.53
9:TF:173:PRO:HG3	9:TF:380:ARG:HD2	1.91	0.53
8:TG:336:LYS:O	8:TG:339:ARG:NH2	2.42	0.53
8:TI:36:MET:HE1	47:p:322:ARG:HH22	1.73	0.53
8:TI:345:ASP:N	8:TI:345:ASP:OD1	2.41	0.53
9:TJ:316:VAL:HG23	9:TJ:352:ALA:HB3	1.90	0.53
8:TM:264:ARG:NH1	8:TM:431:ASP:OD2	2.42	0.53
30:U1:367:GLU:OE2	30:U2:114:SER:OG	2.27	0.53
8:UA:245:ASP:HA	8:UA:249:ASN:HD21	1.73	0.53
9:UB:150:LEU:HG	9:UB:154:LYS:HE2	1.89	0.53
8:UI:295:CYS:SG	8:UI:377:MET:HB3	2.48	0.53
9:UJ:267:MET:HG2	9:UJ:299:MET:HE3	1.91	0.53
9:UJ:285:THR:C	9:UJ:363:MET:HE1	2.34	0.53
9:UL:321:MET:N	9:UL:321:MET:SD	2.82	0.53
8:UM:188:ILE:O	8:UM:191:THR:OG1	2.23	0.53
30:V5:429:THR:O	30:V5:433:ARG:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VD:276:ARG:O	9:VD:276:ARG:NH1	2.37	0.53
8:VE:70:LEU:HB3	8:VE:98:ASP:HA	1.90	0.53
8:VG:286:LEU:O	8:VG:373:ARG:NH1	2.41	0.53
9:VJ:31:ASP:OD1	9:VJ:35:THR:N	2.41	0.53
9:VL:221:THR:N	9:VL:224:ASP:OD2	2.41	0.53
31:W:96:ILE:HG13	31:W:97:PHE:H	1.74	0.53
8:WC:27:GLU:OE2	8:WC:243:ARG:NE	2.42	0.53
8:WI:208:ALA:O	8:WI:212:ILE:HG12	2.07	0.53
9:WL:170:VAL:HG11	9:WL:377:LEU:HD21	1.90	0.53
9:WP:8:GLN:HG2	9:WP:14:ASN:HA	1.90	0.53
34:X6:81:VAL:CB	34:X6:85:LYS:HE3	2.27	0.53
35:XD:87:PHE:H	35:XD:107:ASN:HD21	1.57	0.53
36:Y0:33:PRO:HB3	36:Y0:40:LYS:HG3	1.89	0.53
36:Y1:240:ILE:HG22	36:Y1:241:LYS:HD3	1.90	0.53
37:YC:146:ARG:HG3	37:YC:205:ILE:HD11	1.91	0.53
31:Z:414:HIS:O	31:Z:416:LYS:NZ	2.42	0.53
40:a3:125:ARG:HB3	40:a3:128:ILE:HD12	1.91	0.53
42:e:161:ALA:HA	42:e:178:GLY:HA3	1.89	0.53
43:j:225:ILE:O	43:j:229:LYS:HG2	2.08	0.53
4:j1:30:ALA:HB1	4:j1:92:LEU:HD12	1.91	0.53
47:o:234:ALA:HA	47:o:237:MET:HE2	1.91	0.53
47:p:434:ALA:HA	47:p:437:LYS:HE3	1.91	0.53
2:2:314:TYR:OH	9:HJ:41:ASP:OD1	2.26	0.53
7:A1:336:ARG:NE	7:A2:58:ASP:OD2	2.32	0.53
9:AL:7:LEU:HD13	9:AL:151:LEU:HD21	1.90	0.53
9:AL:290:THR:HG21	9:AL:329:GLN:HB3	1.90	0.53
8:BI:89:PRO:HD2	8:CI:280:LYS:HZ2	1.73	0.53
9:BJ:404:ASP:OD1	9:BJ:405:GLU:N	2.42	0.53
9:BL:346:PRO:HD2	8:BM:398:MET:HE2	1.89	0.53
8:BM:14:VAL:O	8:BM:18:ASN:N	2.36	0.53
8:CE:76:ASP:OD1	8:CE:79:ARG:NH1	2.42	0.53
8:CO:79:ARG:HH21	8:CO:94:THR:HG23	1.73	0.53
9:DJ:330:MET:HB3	9:DJ:349:VAL:HG11	1.90	0.53
9:EB:45:GLU:O	9:EB:46:ARG:NH1	2.42	0.53
9:EB:60:VAL:HG11	9:FB:281:TYR:HB3	1.90	0.53
8:EC:252:LEU:HA	8:EC:255:PHE:CE2	2.43	0.53
9:EL:344:TRP:H	9:EL:344:TRP:CD1	2.26	0.53
8:EM:367:ASP:OD1	8:EM:367:ASP:N	2.41	0.53
8:EO:239:THR:OG1	8:EO:243:ARG:NH1	2.40	0.53
9:FB:130:LEU:O	9:FB:162:ARG:NH1	2.40	0.53
9:FD:299:MET:HA	9:FD:299:MET:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FH:257:MET:SD	9:FH:312:THR:OG1	2.64	0.53
8:FI:102:ASN:HD21	8:FI:104:ALA:HB3	1.74	0.53
8:FK:116:ASP:HB3	36:Y2:108:PRO:HA	1.91	0.53
8:FK:117:LEU:HD23	36:Y2:115:VAL:HG21	1.89	0.53
8:FM:217:LEU:HD11	8:FM:275:VAL:HG22	1.91	0.53
9:FN:130:LEU:O	9:FN:162:ARG:NH1	2.42	0.53
9:GB:5:VAL:HB	9:GB:133:PHE:HD1	1.72	0.53
8:GC:88:HIS:NE2	8:HC:284:GLU:OE1	2.42	0.53
9:GD:20:PHE:CG	9:GD:233:MET:HE1	2.44	0.53
9:GD:172:SER:OG	9:GD:205:GLU:OE1	2.26	0.53
8:GE:132:LEU:O	8:GE:164:LYS:NZ	2.34	0.53
9:GF:318:ARG:HE	9:GF:358:PRO:HB3	1.73	0.53
8:GG:359:PRO:HB2	8:GG:370:LYS:NZ	2.23	0.53
8:GI:231:ILE:HA	8:GI:234:ILE:HD12	1.91	0.53
8:HA:116:ASP:N	8:HA:116:ASP:OD1	2.38	0.53
9:HD:345:ILE:HG23	8:HE:398:MET:HE1	1.91	0.53
8:HG:326:LYS:HG3	9:HH:220:PRO:HD2	1.90	0.53
9:HH:226:ASN:O	9:HH:230:SER:OG	2.23	0.53
9:HH:234:SER:OG	9:HH:318:ARG:NH1	2.38	0.53
8:HI:437:VAL:O	9:HJ:391:ARG:NH2	2.31	0.53
9:HJ:313:VAL:HB	9:HJ:349:VAL:HG22	1.90	0.53
9:HL:1:MET:N	9:HL:128:ASP:OD1	2.29	0.53
8:HO:97:GLU:HG3	8:HO:105:ARG:HH22	1.72	0.53
9:HP:211:CYS:HA	9:HP:215:LEU:HB2	1.91	0.53
8:IG:367:ASP:OD1	8:IG:367:ASP:N	2.42	0.53
9:IH:172:SER:OG	9:IH:205:GLU:OE1	2.23	0.53
9:IL:267:MET:HG2	9:IL:301:ALA:HB3	1.90	0.53
19:J4:83:PHE:HD2	8:OK:370:LYS:H	1.56	0.53
19:J5:54:ARG:NH2	9:NN:36:TYR:OH	2.42	0.53
19:J5:118:ARG:HH12	19:J5:142:ARG:HD3	1.74	0.53
9:JB:273:LEU:O	9:JB:292:GLN:NE2	2.42	0.53
8:JC:196:GLU:HG3	8:JC:197:HIS:CD2	2.43	0.53
8:JC:311:LYS:H	8:JC:382:THR:HG22	1.74	0.53
9:JD:323:MET:HE2	8:JE:224:TYR:CD2	2.42	0.53
8:KA:317:MET:HB2	8:KA:353:VAL:HA	1.91	0.53
9:KD:401:GLU:C	41:b2:466:ARG:HD2	2.33	0.53
9:KF:273:LEU:O	9:KF:292:GLN:NE2	2.41	0.53
8:KM:231:ILE:HA	8:KM:234:ILE:HD12	1.89	0.53
9:LB:251:ARG:HD3	8:LC:105:ARG:NH2	2.24	0.53
8:LE:49:PHE:HB2	8:LE:53:PHE:HD2	1.74	0.53
9:MB:170:VAL:HG11	9:MB:377:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MC:278:ALA:HA	8:MC:369:ALA:HB2	1.90	0.53
9:MD:151:LEU:O	9:MD:155:ILE:HG13	2.08	0.53
9:MD:299:MET:HE3	9:MD:299:MET:HA	1.90	0.53
9:ML:213:ARG:HH22	45:n:12:LYS:HZ1	1.57	0.53
8:MM:85:GLN:HE21	33:X5:43:PRO:HB3	1.73	0.53
17:N:264:ARG:O	25:O5:114:HIS:NE2	2.41	0.53
9:NJ:3:GLU:HB2	9:NJ:130:LEU:HA	1.90	0.53
8:NK:4:CYS:HA	8:NK:134:GLY:O	2.08	0.53
9:NN:292:GLN:O	9:NN:298:ASN:ND2	2.42	0.53
25:O5:435:ASP:N	25:O5:435:ASP:OD1	2.35	0.53
8:OA:306:ASP:HB3	8:OA:309:HIS:CD2	2.43	0.53
9:OF:329:GLN:NE2	36:Y4:120:PRO:O	2.41	0.53
9:OH:113:VAL:HG11	9:OH:150:LEU:HD23	1.89	0.53
9:OJ:100:ASN:HB3	9:OJ:103:LYS:HB2	1.91	0.53
9:OJ:300:MET:HE3	9:OJ:300:MET:HA	1.89	0.53
8:OK:328:VAL:HG21	8:OK:355:ILE:HD11	1.91	0.53
9:PD:113:VAL:HG11	9:PD:150:LEU:HD23	1.91	0.53
8:PG:122:ILE:HG21	8:PG:157:LEU:HD11	1.91	0.53
8:PG:132:LEU:O	8:PG:164:LYS:NZ	2.35	0.53
8:PI:202:PHE:HZ	8:PI:378:LEU:HD13	1.74	0.53
9:PJ:187:LEU:HD13	9:PJ:403:MET:HE3	1.91	0.53
8:PO:7:ILE:HD12	8:PO:137:ILE:HG12	1.91	0.53
8:PO:191:THR:HG21	8:PO:425:LEU:HD11	1.91	0.53
28:Q1:50:LYS:HZ2	12:S5:310:ARG:HD3	1.73	0.53
9:QB:8:GLN:HE21	9:QB:14:ASN:HA	1.74	0.53
9:QD:113:VAL:HG11	9:QD:150:LEU:HD23	1.91	0.53
9:QD:198:GLU:HB2	9:QD:266:PHE:HE2	1.74	0.53
9:QF:275:SER:O	9:QF:279:GLN:NE2	2.42	0.53
8:QI:184:PRO:O	8:QI:188:ILE:HG12	2.08	0.53
8:QI:204:VAL:HG13	8:QI:302:MET:HG3	1.89	0.53
8:QK:328:VAL:HG21	8:QK:355:ILE:HD11	1.91	0.53
8:QM:136:LEU:HB2	8:QM:169:PHE:HE2	1.73	0.53
29:R:181:GLU:O	29:R:185:THR:HG23	2.09	0.53
11:R0:307:LYS:HB2	11:R0:349:ILE:HD11	1.90	0.53
11:R4:135:GLU:C	11:R4:139:LYS:HZ1	2.16	0.53
8:RC:360:PRO:O	8:RC:370:LYS:NZ	2.37	0.53
8:RG:367:ASP:N	8:RG:367:ASP:OD1	2.40	0.53
9:RH:285:THR:HB	9:RH:287:PRO:HD2	1.90	0.53
8:RI:280:LYS:HA	8:RI:283:HIS:NE2	2.24	0.53
29:S:148:PHE:O	29:S:152:ARG:HG2	2.09	0.53
12:S0:50:TRP:C	12:S0:51:ARG:HD2	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S9:236:HIS:HA	12:S9:239:LYS:HG3	1.90	0.53
9:SB:41:ASP:N	9:SB:41:ASP:OD1	2.42	0.53
9:SH:363:MET:HA	9:SH:363:MET:HE3	1.91	0.53
8:SK:88:HIS:HB3	8:SK:91:GLN:HB2	1.89	0.53
9:SL:274:THR:HB	9:SL:278:SER:HB2	1.90	0.53
8:SM:7:ILE:HD13	8:SM:137:ILE:HG13	1.91	0.53
9:SN:133:PHE:CD1	9:SN:164:MET:HE1	2.39	0.53
14:T1:162:ARG:NH1	14:T1:166:ASP:OD2	2.42	0.53
14:T3:138:LEU:HD11	14:T3:282:ILE:HD12	1.91	0.53
9:TH:267:MET:HG2	9:TH:301:ALA:HB3	1.90	0.53
9:TL:374:ILE:HD12	9:TL:378:PHE:HE2	1.72	0.53
30:U4:100:ASP:O	30:U4:104:ARG:HG2	2.08	0.53
30:U6:344:ASN:OD1	30:V1:344:ASN:ND2	2.41	0.53
30:U8:366:GLN:NE2	30:W0:148:ASP:OD1	2.42	0.53
8:UA:4:CYS:HB2	8:UA:52:PHE:HE2	1.74	0.53
8:UE:20:CYS:HB3	8:UE:24:TYR:CZ	2.44	0.53
9:UJ:273:LEU:O	9:UJ:292:GLN:NE2	2.42	0.53
9:UN:6:HIS:CD2	9:UN:21:TRP:HE1	2.27	0.53
8:UO:372:GLN:HG3	8:UO:373:ARG:HE	1.74	0.53
30:V4:134:MET:O	30:V4:138:THR:HG23	2.09	0.53
30:V7:152:TRP:NE1	30:V7:300:SER:OG	2.36	0.53
8:VG:186:ASN:O	8:VG:190:THR:OG1	2.24	0.53
9:VJ:325:GLU:HA	9:VJ:328:GLU:HB3	1.89	0.53
8:VM:219:ILE:HG13	8:VM:222:PRO:HG3	1.91	0.53
30:W0:406:GLU:N	30:W0:406:GLU:OE2	2.42	0.53
30:W6:472:MET:N	30:W6:472:MET:SD	2.82	0.53
8:WE:298:PRO:HA	8:WE:301:GLN:HG2	1.90	0.53
9:WJ:213:ARG:HB2	9:WJ:297:LYS:HZ1	1.73	0.53
9:WJ:256:ASN:HD21	8:WK:181:VAL:H	1.57	0.53
8:WK:150:ALA:O	8:WK:154:MET:HG3	2.08	0.53
8:WO:212:ILE:HG12	8:WO:215:ARG:HH22	1.72	0.53
34:X8:97:LEU:HD13	34:X8:143:LEU:HD21	1.90	0.53
31:Y:576:VAL:HG21	31:Y:732:TYR:HB3	1.90	0.53
31:Z:234:CYS:HB2	31:Z:249:PHE:HB2	1.89	0.53
40:a4:150:LYS:HE3	40:a4:150:LYS:HA	1.90	0.53
42:e:228:ASP:HB2	42:e:243:GLY:HA3	1.90	0.53
42:g:83:GLN:NE2	42:g:92:ASP:OD2	2.42	0.53
46:i3:1345:ARG:HA	46:i3:1348:LYS:HB3	1.91	0.53
47:p:211:ASP:O	47:p:215:GLN:HG2	2.09	0.53
2:1:711:GLY:O	9:IF:359:ARG:NH2	2.41	0.53
3:4:436:ASP:HA	3:4:439:ARG:HH11	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A2:159:GLU:OE2	7:A2:162:ARG:NH2	2.36	0.53
9:AD:331:LEU:HD22	8:AE:177:VAL:HG12	1.91	0.53
8:AE:72:PRO:HA	8:AE:94:THR:HG21	1.90	0.53
8:AG:133:GLN:O	8:AG:165:SER:OG	2.27	0.53
11:B2:92:LEU:HD23	11:B2:162:LEU:HG	1.91	0.53
9:BD:10:GLY:O	9:BD:14:ASN:ND2	2.41	0.53
8:BM:80:THR:HG21	17:M:275:ILE:HG23	1.91	0.53
9:CD:8:GLN:HE22	9:CD:65:LEU:HD23	1.74	0.53
8:CK:348:PRO:HG2	9:CL:384:GLN:OE1	2.09	0.53
8:CK:427:ALA:HA	8:CK:430:LYS:HD2	1.90	0.53
8:CO:147:SER:OG	8:CO:190:THR:OG1	2.15	0.53
9:CP:31:ASP:OD1	9:CP:35:THR:N	2.42	0.53
8:DG:353:VAL:HG22	9:DH:177:ASP:HB2	1.90	0.53
8:DI:385:ALA:HA	8:DI:388:TRP:HD1	1.73	0.53
8:EC:64:ARG:HB3	8:EC:125:LEU:HD21	1.90	0.53
9:EF:372:THR:HA	9:EF:422:TYR:HE1	1.74	0.53
9:EL:1:MET:HE3	9:EL:2:ARG:H	1.74	0.53
9:EL:321:MET:HE1	17:N:31:VAL:HG11	1.91	0.53
9:EN:118:ASP:OD1	9:EN:121:ARG:NH2	2.39	0.53
9:EN:156:ARG:HG3	9:EN:195:ASN:HB3	1.91	0.53
15:F:270:VAL:HG22	15:F:282:LEU:HD11	1.91	0.53
8:FE:215:ARG:NH2	8:FE:299:ALA:O	2.42	0.53
9:GD:72:THR:O	9:GD:75:SER:OG	2.25	0.53
8:GI:88:HIS:CD2	8:GI:90:GLU:HB3	2.43	0.53
9:GJ:68:LEU:HB3	9:GJ:96:GLY:HA2	1.91	0.53
8:GM:7:ILE:HB	8:GM:137:ILE:HG23	1.91	0.53
8:HC:97:GLU:HG3	8:HC:105:ARG:HH22	1.72	0.53
9:HF:313:VAL:HG13	9:HF:367:PHE:HE1	1.74	0.53
9:IB:335:ASN:O	9:IB:338:SER:OG	2.26	0.53
8:IC:137:ILE:HG13	8:IC:168:GLU:HG2	1.91	0.53
9:IJ:130:LEU:O	9:IJ:162:ARG:NH1	2.36	0.53
9:IN:101:TRP:HB3	9:IN:398:TYR:HE2	1.73	0.53
9:IP:20:PHE:CD2	9:IP:233:MET:HE3	2.43	0.53
19:J2:192:VAL:HG13	19:J3:50:LEU:HD21	1.90	0.53
9:JH:284:LEU:HD13	9:JH:363:MET:HG2	1.91	0.53
8:JK:132:LEU:O	8:JK:164:LYS:NZ	2.36	0.53
8:JK:253:THR:O	8:JK:257:THR:HG23	2.09	0.53
8:JK:417:GLU:HA	8:JK:420:GLU:HB3	1.91	0.53
9:JL:1:MET:HE1	9:JL:2:ARG:NH1	2.23	0.53
9:JL:326:VAL:O	9:JL:330:MET:HG2	2.09	0.53
8:JM:385:ALA:HA	8:JM:388:TRP:HD1	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JN:2:ARG:NH1	8:JO:96:LYS:O	2.42	0.53
9:JP:381:ILE:O	9:JP:385:PHE:N	2.42	0.53
8:KE:72:PRO:HA	8:KE:94:THR:HG21	1.90	0.53
8:KG:31:GLN:HG2	8:KG:37:PRO:HD3	1.90	0.53
9:KH:249:ASP:OD1	9:KH:251:ARG:N	2.39	0.53
9:LB:372:THR:HG21	9:LB:426:GLN:HB2	1.91	0.53
8:LO:365:GLY:HA3	29:S:108:ARG:HG3	1.90	0.53
8:MG:105:ARG:HH21	8:MG:110:ILE:HD11	1.74	0.53
8:MI:79:ARG:NH2	8:MI:94:THR:OG1	2.42	0.53
8:MK:194:THR:O	8:MK:266:HIS:NE2	2.40	0.53
8:MM:132:LEU:O	8:MM:164:LYS:NZ	2.41	0.53
9:NB:172:SER:OG	9:NB:205:GLU:OE1	2.22	0.53
8:NE:136:LEU:HB2	8:NE:169:PHE:HE1	1.72	0.53
9:NF:2:ARG:HH21	8:NG:72:PRO:HD2	1.73	0.53
9:NF:167:PHE:CE1	9:NF:233:MET:HB3	2.43	0.53
8:NG:249:ASN:OD1	9:NH:11:GLN:NE2	2.42	0.53
9:NH:144:GLY:N	52:NH:502:GDP:O1B	2.25	0.53
9:NP:237:THR:HG22	9:NP:250:LEU:HD21	1.89	0.53
8:OG:313:MET:CE	8:OG:344:VAL:HG11	2.39	0.53
8:OM:60:LYS:HA	8:OM:60:LYS:HE2	1.90	0.53
8:OM:320:ARG:HD3	8:OM:360:PRO:HG3	1.90	0.53
27:P6:15:ASP:N	27:P6:15:ASP:OD1	2.40	0.53
9:PB:213:ARG:O	9:PB:216:LYS:NZ	2.35	0.53
9:PD:252:LYS:HD3	8:PE:100:ALA:HA	1.90	0.53
9:PF:81:PHE:HB3	9:PF:84:ILE:HD13	1.91	0.53
8:PG:135:PHE:HB2	8:PG:166:LYS:HA	1.91	0.53
9:PJ:313:VAL:HB	9:PJ:349:VAL:HG12	1.91	0.53
9:QB:139:LEU:HB2	9:QB:171:PRO:HD3	1.89	0.53
8:QC:320:ARG:HD3	8:QC:360:PRO:HG3	1.90	0.53
9:QH:323:MET:HA	9:QH:326:VAL:HB	1.91	0.53
8:QI:108:TYR:HA	8:QI:112:LYS:HE3	1.91	0.53
9:QL:51:TYR:HB3	9:QL:59:TYR:HB3	1.89	0.53
9:QP:198:GLU:HA	9:QP:264:HIS:HB2	1.91	0.53
29:R:150:GLU:H	29:R:150:GLU:CD	2.17	0.53
8:RE:56:THR:HA	8:SC:285:GLN:HB2	1.89	0.53
9:RF:249:ASP:H	9:RF:252:LYS:HB2	1.74	0.53
9:RJ:10:GLY:O	9:RJ:14:ASN:ND2	2.41	0.53
8:RM:203:MET:HE1	8:RM:388:TRP:HZ2	1.73	0.53
12:S0:275:ARG:HA	12:S0:275:ARG:NH1	2.24	0.53
12:S1:403:ARG:O	12:S1:406:ARG:NE	2.35	0.53
12:S5:110:SER:O	12:S5:114:ARG:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SA:209:ILE:HD12	8:SA:209:ILE:H	1.74	0.53
8:SG:7:ILE:HD13	8:SG:137:ILE:HG13	1.91	0.53
8:SG:213:CYS:SG	8:SG:214:ARG:N	2.82	0.53
8:SK:3:GLU:H	8:SK:133:GLN:HG2	1.74	0.53
8:SK:319:TYR:HE2	8:SK:353:VAL:HG13	1.74	0.53
8:SM:139:HIS:O	8:SM:170:ALA:HA	2.08	0.53
14:T3:57:PHE:HE2	30:V6:388:PRO:HG3	1.72	0.53
9:TD:1:MET:N	9:TD:3:GLU:OE1	2.41	0.53
8:TE:132:LEU:O	8:TE:164:LYS:NZ	2.37	0.53
8:TG:313:MET:N	8:TG:313:MET:SD	2.82	0.53
30:U7:131:ILE:CD1	30:U8:423:ILE:HG12	2.39	0.53
30:U8:110:ARG:NH2	30:U9:363:LYS:HG2	2.24	0.53
8:UE:288:VAL:O	8:UE:292:THR:HG22	2.08	0.53
9:UF:257:MET:HB3	9:UF:266:PHE:CZ	2.43	0.53
9:UF:257:MET:HG3	9:UF:312:THR:OG1	2.09	0.53
9:UH:324:LYS:O	9:UH:328:GLU:N	2.34	0.53
8:UK:11:GLN:HG3	8:UK:74:VAL:HG11	1.89	0.53
8:VA:62:VAL:HG21	8:WA:283:HIS:HD2	1.74	0.53
9:VH:173:PRO:HG2	9:VH:174:LYS:HD3	1.91	0.53
9:VL:403:MET:HE3	9:VL:403:MET:N	2.21	0.53
30:W2:244:ARG:HH21	30:W2:248:HIS:HB2	1.73	0.53
9:WJ:293:MET:HE3	9:WJ:367:PHE:HB2	1.91	0.53
9:WL:73:MET:HE3	9:WL:92:PHE:HB3	1.91	0.53
9:WP:374:ILE:HD12	9:WP:377:LEU:HD13	1.91	0.53
33:X5:98:ASP:O	33:X5:100:LYS:NZ	2.35	0.53
34:X7:72:ILE:O	34:X7:151:LYS:NZ	2.38	0.53
34:X8:239:ARG:HD2	34:X8:266:TRP:HB2	1.89	0.53
35:XB:6:PHE:O	39:a6:84:ARG:NH1	2.41	0.53
35:XF:77:VAL:HG22	35:XF:133:GLN:HG2	1.90	0.53
35:XH:123:MET:HE1	35:XH:125:LEU:HG	1.89	0.53
31:Y:526:ASP:HB3	31:Y:529:THR:HG23	1.91	0.53
40:a4:142:GLU:OE1	40:a4:146:ARG:NH1	2.41	0.53
39:c:403:ARG:HG3	39:c:404:ARG:HE	1.74	0.53
42:e:372:VAL:HG13	48:q:135:LYS:HZ1	1.74	0.53
42:g:161:ALA:HA	42:g:178:GLY:HA3	1.90	0.53
42:g:357:ARG:HG2	42:g:369:ARG:HG3	1.90	0.53
3:4:470:ARG:O	3:4:474:GLU:HG2	2.09	0.53
4:6:116:LEU:HD13	4:6:240:PHE:HE2	1.74	0.53
1:7:95:GLN:HA	1:7:98:GLN:HE22	1.72	0.53
5:8:72:SER:HB3	8:JI:357:TYR:HD1	1.73	0.53
8:AO:73:THR:OG1	8:AO:77:GLU:OE2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AP:150:LEU:HG	9:AP:154:LYS:HE2	1.91	0.53
11:B0:31:GLN:OE1	11:B1:369:HIS:ND1	2.38	0.53
11:B4:61:ARG:NH1	11:B4:190:LEU:O	2.39	0.53
11:B5:136:GLU:HG3	11:B5:264:THR:HG21	1.90	0.53
9:BJ:67:ASP:OD1	9:BJ:69:GLU:N	2.39	0.53
8:BM:326:LYS:HE3	9:BN:208:TYR:CD1	2.44	0.53
8:BO:254:GLU:N	8:BO:254:GLU:OE1	2.40	0.53
9:BP:406:MET:SD	9:BP:409:THR:OG1	2.58	0.53
10:C:247:GLU:OE1	10:C:250:ARG:NH2	2.42	0.53
8:CE:172:TYR:N	8:CE:204:VAL:O	2.38	0.53
8:CM:345:ASP:OD1	8:CM:345:ASP:N	2.41	0.53
9:DF:150:LEU:HG	9:DF:154:LYS:HE2	1.91	0.53
9:DH:10:GLY:O	9:DH:14:ASN:ND2	2.41	0.53
8:DI:79:ARG:HG2	17:K:17:ILE:HD11	1.90	0.53
9:DL:133:PHE:HB2	9:DL:164:MET:HE1	1.90	0.53
9:DL:256:ASN:HD21	8:DM:181:VAL:H	1.55	0.53
8:EA:2:ARG:N	8:EA:2:ARG:HD3	2.23	0.53
8:EC:167:LEU:HD23	8:EC:202:PHE:HE2	1.74	0.53
9:EF:47:ILE:HG12	17:Z3:224:PHE:CZ	2.44	0.53
8:EI:8:HIS:H	8:EI:8:HIS:CD2	2.25	0.53
9:EJ:248:ALA:HA	9:EJ:252:LYS:HG3	1.91	0.53
9:EN:337:ASN:HB3	9:EN:340:TYR:HD2	1.73	0.53
9:EN:344:TRP:H	9:EN:344:TRP:CD1	2.26	0.53
15:F:189:GLU:OE1	15:F:191:THR:HG23	2.08	0.53
9:FB:165:ASN:HB3	9:FB:200:TYR:HE1	1.72	0.53
9:FL:146:GLY:O	9:FL:149:THR:OG1	2.27	0.53
8:GA:116:ASP:N	8:GA:116:ASP:OD1	2.40	0.53
9:GB:293:MET:HE3	9:GB:367:PHE:HB3	1.91	0.53
9:GF:309:ARG:HG3	9:GF:426:GLN:HG3	1.91	0.53
8:GG:384:ILE:HD12	8:GG:384:ILE:H	1.74	0.53
8:GK:194:THR:O	8:GK:266:HIS:NE2	2.40	0.53
9:HB:321:MET:HG3	9:HB:363:MET:HE1	1.91	0.53
8:HC:263:PRO:HG3	9:HD:396:HIS:CD2	2.43	0.53
8:HG:172:TYR:HD2	8:HG:173:PRO:HD2	1.74	0.53
9:HL:128:ASP:OD1	9:HL:129:CYS:N	2.41	0.53
9:HP:8:GLN:HE21	9:HP:14:ASN:HA	1.73	0.53
8:IE:325:PRO:HA	8:IE:328:VAL:HB	1.89	0.53
8:IE:437:VAL:O	9:IF:391:ARG:NH2	2.36	0.53
8:IK:172:TYR:HE1	8:IK:387:ALA:HB1	1.74	0.53
9:IL:164:MET:HA	9:IL:164:MET:HE3	1.90	0.53
8:IM:214:ARG:NH2	36:Y1:76:ILE:O	2.31	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IN:61:PRO:HD3	9:IN:84:ILE:HG13	1.91	0.53
8:IO:38:SER:O	8:IO:40:LYS:N	2.42	0.53
19:J5:71:PRO:HB2	8:OO:218:ASP:OD2	2.09	0.53
8:JG:214:ARG:NH2	8:JG:215:ARG:HH21	2.07	0.53
8:JI:234:ILE:HD11	8:JI:272:TYR:HB2	1.89	0.53
8:JI:260:VAL:HB	9:JJ:397:TRP:HZ2	1.74	0.53
8:JO:183:GLU:OE1	8:JO:184:PRO:HD3	2.09	0.53
9:JP:8:GLN:HE21	9:JP:14:ASN:HA	1.74	0.53
13:K3:263:GLY:HA3	13:K3:273:GLU:HG2	1.89	0.53
9:KD:55:THR:HB	9:LD:283:ALA:HA	1.90	0.53
8:KK:172:TYR:CD2	8:KK:173:PRO:HD2	2.44	0.53
9:KL:258:VAL:HG22	8:KM:407:TRP:CZ2	2.44	0.53
9:KN:193:VAL:HG23	9:KN:194:GLU:HG2	1.91	0.53
9:KN:323:MET:HE1	9:KN:353:VAL:HG21	1.91	0.53
9:KP:54:ALA:HB3	9:KP:58:LYS:HB3	1.90	0.53
9:KP:184:ASN:OD1	9:KP:398:TYR:OH	2.27	0.53
9:MD:170:VAL:HG21	9:MD:377:LEU:HD11	1.91	0.53
8:ME:139:HIS:NE2	8:ME:168:GLU:OE2	2.42	0.53
9:MH:117:LEU:HB3	9:MH:121:ARG:HH22	1.74	0.53
9:ML:31:ASP:OD1	9:ML:35:THR:N	2.41	0.53
8:MO:9:VAL:HB	8:MO:139:HIS:HB3	1.89	0.53
9:NF:256:ASN:ND2	8:NG:182:VAL:HG12	2.24	0.53
8:NG:136:LEU:HA	8:NG:167:LEU:HG	1.91	0.53
8:NK:91:GLN:HG3	8:NK:121:ARG:HH11	1.73	0.53
9:NN:256:ASN:HD22	8:NO:182:VAL:HG22	1.74	0.53
9:NN:277:GLY:O	9:NN:282:ARG:NH1	2.42	0.53
8:NO:361:THR:OG1	8:NO:362:VAL:N	2.42	0.53
25:O5:285:ARG:HH22	25:O5:288:PHE:HB2	1.74	0.53
17:O7:314:ARG:O	17:O7:318:THR:OG1	2.21	0.53
8:OC:56:THR:HG22	8:OC:60:LYS:H	1.74	0.53
8:OE:3:GLU:HG2	8:OE:129:CYS:HB2	1.89	0.53
9:OF:167:PHE:CD1	9:OF:233:MET:HE3	2.44	0.53
9:OL:54:ALA:HA	9:PL:283:ALA:HB2	1.91	0.53
9:OL:54:ALA:HB3	9:OL:58:LYS:HB3	1.90	0.53
9:OL:333:VAL:O	9:OL:337:ASN:ND2	2.42	0.53
27:P3:141:GLN:CG	27:P3:148:LYS:HG2	2.38	0.53
27:P7:171:ARG:HH21	11:R5:20:ASN:CG	2.16	0.53
9:PD:4:ILE:HD11	9:PD:134:GLN:HB2	1.91	0.53
9:PD:83:GLN:O	9:QD:281:TYR:OH	2.20	0.53
8:PE:70:LEU:HD12	8:PE:95:GLY:HA3	1.91	0.53
9:PF:358:PRO:HG2	9:PF:361:LEU:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PH:83:GLN:O	9:QH:281:TYR:OH	2.26	0.53
8:PK:276:ILE:HD12	8:PK:280:LYS:HB3	1.91	0.53
9:PN:322:SER:OG	8:PO:222:PRO:O	2.25	0.53
8:PO:188:ILE:O	8:PO:191:THR:OG1	2.25	0.53
8:PO:221:ARG:NH2	8:PO:222:PRO:O	2.26	0.53
8:PO:319:TYR:HB3	8:PO:323:VAL:HG11	1.91	0.53
9:QB:31:ASP:OD1	9:QB:35:THR:N	2.40	0.53
8:QG:7:ILE:HB	8:QG:137:ILE:HD13	1.90	0.53
9:QN:130:LEU:O	9:QN:162:ARG:NH1	2.40	0.53
11:R1:131:ASP:N	11:R1:131:ASP:OD1	2.41	0.53
11:R4:411:PHE:O	11:R4:412:THR:HB	2.09	0.53
9:RF:16:ILE:HD11	9:RF:136:THR:HB	1.91	0.53
8:RK:30:ILE:HG13	8:RK:53:PHE:CZ	2.44	0.53
9:RP:198:GLU:HA	9:RP:264:HIS:HB2	1.91	0.53
9:RP:309:ARG:NH2	9:RP:339:SER:O	2.41	0.53
12:S9:426:GLU:O	12:S9:430:THR:HG23	2.09	0.53
8:SA:195:LEU:HD13	8:SA:428:LEU:HD11	1.91	0.53
8:SE:2:ARG:HB2	8:SE:51:THR:HG22	1.90	0.53
8:SG:311:LYS:H	8:SG:382:THR:HG22	1.74	0.53
9:SJ:52:ASN:OD1	9:SJ:62:ARG:NH1	2.42	0.53
9:SL:27:GLU:O	9:SL:359:ARG:NH2	2.38	0.53
25:T:347:CYS:SG	25:T:351:THR:OG1	2.66	0.53
14:T3:175:GLU:OE1	14:T3:178:LYS:NZ	2.40	0.53
9:TB:372:THR:HA	9:TB:422:TYR:HE1	1.74	0.53
8:TC:70:LEU:HD13	8:TC:97:GLU:O	2.09	0.53
8:TK:188:ILE:O	8:TK:191:THR:OG1	2.27	0.53
30:U1:159:GLU:OE1	30:U1:162:ARG:NH1	2.42	0.53
30:U6:214:ASN:HD21	30:U6:338:ASN:HB3	1.72	0.53
30:U7:123:ILE:HD12	30:U8:433:ARG:NH1	2.23	0.53
8:UA:53:PHE:O	8:UA:64:ARG:NH1	2.42	0.53
8:UC:239:THR:OG1	8:UC:243:ARG:NH1	2.38	0.53
9:UH:273:LEU:O	9:UH:292:GLN:NE2	2.42	0.53
30:V0:340:ASN:HA	30:V0:343:PHE:CD2	2.44	0.53
30:V1:195:LEU:HG	30:V1:215:LEU:HB3	1.91	0.53
9:VH:286:VAL:HG11	9:VH:326:VAL:HG12	1.90	0.53
9:VL:10:GLY:O	9:VL:14:ASN:ND2	2.41	0.53
31:W:159:VAL:HG22	31:W:164:THR:HG22	1.90	0.53
30:W0:163:LEU:HD12	30:W0:166:GLU:OE1	2.08	0.53
30:W7:310:MET:HA	30:W7:310:MET:HE3	1.90	0.53
8:WE:127:ASP:HA	37:YC:69:LEU:HD23	1.90	0.53
8:WG:138:PHE:HZ	8:WG:235:VAL:HG21	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WJ:215:LEU:HD12	9:WJ:275:SER:HA	1.90	0.53
9:WN:10:GLY:O	9:WN:14:ASN:ND2	2.42	0.53
8:WO:339:ARG:HH21	8:WO:342:GLN:HG2	1.74	0.53
9:WP:6:HIS:HA	9:WP:134:GLN:HG3	1.90	0.53
35:XA:96:ASP:OD1	35:XA:146:THR:OG1	2.23	0.53
37:YA:100:LEU:HD13	37:YA:152:THR:HG22	1.91	0.53
37:YB:67:ILE:HG22	37:YB:80:TRP:CZ3	2.43	0.53
41:b3:368:ASN:ND2	41:b3:426:ASN:OD1	2.41	0.53
39:c:113:LYS:O	39:c:117:GLN:HG2	2.08	0.53
39:c:210:GLN:O	39:c:214:LYS:HG3	2.08	0.53
42:e:170:ARG:HG2	42:e:172:GLU:H	1.73	0.53
42:f:526:ILE:HD11	42:f:562:THR:HG21	1.90	0.53
43:i:210:GLU:OE1	43:i:226:ARG:NH2	2.41	0.53
45:n:45:ASP:OD2	45:n:46:ARG:N	2.42	0.53
2:1:498:LYS:HA	2:1:498:LYS:HE3	1.89	0.53
3:3:19:LYS:O	36:Y5:245:TYR:HA	2.09	0.53
4:5:190:GLU:HB3	4:5:193:ARG:HH21	1.74	0.53
9:AB:31:ASP:OD1	9:AB:35:THR:N	2.42	0.53
9:AB:51:TYR:O	9:AB:62:ARG:NH2	2.42	0.53
9:AH:107:THR:OG1	9:AH:108:GLU:N	2.42	0.53
9:AP:306:ARG:NH1	37:YH:24:GLU:OE1	2.42	0.53
11:B3:180:MET:HB3	28:Q3:132:PRO:HB3	1.91	0.53
11:B3:255:ASP:OD1	11:B3:258:ARG:NH2	2.42	0.53
8:BC:7:ILE:HB	8:BC:137:ILE:HG23	1.90	0.53
8:BC:142:GLY:O	8:BC:186:ASN:ND2	2.41	0.53
8:BE:332:ILE:HD11	8:BE:353:VAL:HG21	1.90	0.53
12:C3:436:GLN:OE1	12:C3:439:ARG:NH2	2.41	0.53
8:CE:53:PHE:C	8:CE:64:ARG:HE	2.17	0.53
9:CN:55:THR:O	9:DN:280:GLN:NE2	2.34	0.53
9:DD:407:GLU:HA	9:DD:410:GLU:HG2	1.90	0.53
8:DE:188:ILE:O	8:DE:191:THR:OG1	2.26	0.53
9:DH:323:MET:HE1	8:DI:224:TYR:CZ	2.44	0.53
8:DM:278:ALA:O	8:DM:282:TYR:N	2.42	0.53
9:DN:311:LEU:HG	9:DN:312:THR:HG23	1.91	0.53
9:ED:31:ASP:OD1	9:ED:35:THR:N	2.42	0.53
9:EF:210:ILE:HA	9:EF:297:LYS:NZ	2.24	0.53
8:FG:172:TYR:HB2	8:FG:203:MET:SD	2.48	0.53
8:FI:325:PRO:HG2	9:FJ:222:TYR:CD1	2.44	0.53
9:FJ:372:THR:HA	9:FJ:422:TYR:HE1	1.73	0.53
9:FN:1:MET:HE1	9:FN:49:VAL:HG22	1.91	0.53
8:GA:142:GLY:O	8:GA:186:ASN:ND2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GE:37:PRO:HG2	49:y:68:ARG:HG2	1.91	0.53
8:GE:241:SER:OG	8:GE:250:VAL:O	2.22	0.53
8:GE:358:GLN:HG2	49:y:109:TYR:CZ	2.44	0.53
9:GL:7:LEU:HG	9:GL:135:LEU:HD13	1.91	0.53
9:GN:180:VAL:HG13	9:GN:184:ASN:HD21	1.74	0.53
8:HC:367:ASP:OD1	8:HC:367:ASP:N	2.41	0.53
9:HH:334:GLN:OE1	9:HH:348:ASN:N	2.42	0.53
9:HJ:173:PRO:HG3	9:HJ:380:ARG:HD2	1.90	0.53
9:HJ:226:ASN:HA	9:HJ:229:VAL:HB	1.90	0.53
9:HL:47:ILE:HG12	9:HL:51:TYR:HB2	1.91	0.53
9:HL:187:LEU:HD11	9:HL:408:PHE:HE1	1.73	0.53
9:HP:256:ASN:HB3	9:HP:350:LYS:HE2	1.91	0.53
8:IA:123:ARG:HE	8:IA:124:LYS:HG2	1.74	0.53
8:IC:319:TYR:HB2	8:IC:355:ILE:HD13	1.91	0.53
8:IE:88:HIS:HB2	9:JF:281:TYR:CZ	2.44	0.53
8:IG:103:TYR:HB3	8:IG:408:TYR:HE2	1.74	0.53
9:IJ:304:ASP:HB3	9:IJ:307:HIS:CE1	2.44	0.53
8:IK:119:LEU:HD11	8:IK:156:ARG:HD3	1.90	0.53
9:IL:134:GLN:OE1	9:IL:167:PHE:HZ	1.91	0.53
9:IN:333:VAL:HA	9:IN:336:LYS:HG2	1.91	0.53
19:J3:54:ARG:HH21	9:NF:36:TYR:HE2	1.57	0.53
8:JC:269:LEU:HD22	8:JC:303:VAL:HG11	1.91	0.53
8:JG:292:THR:HG21	8:JG:331:ALA:HB1	1.91	0.53
9:JL:207:LEU:HD21	9:JL:300:MET:HE3	1.91	0.53
20:K1:58:HIS:HB3	9:UB:42:LEU:HD21	1.91	0.53
20:K2:64:PRO:O	39:d:437:VAL:HG13	2.09	0.53
8:KA:206:ASN:HD21	50:KA:501:GTP:HN22	1.57	0.53
9:KL:273:LEU:O	9:KL:292:GLN:NE2	2.35	0.53
8:LA:151:SER:HB3	8:LA:193:THR:HG21	1.91	0.53
8:LE:68:VAL:HG12	8:LE:93:ILE:HB	1.91	0.53
9:LL:269:GLY:HA2	9:LL:300:MET:HE1	1.90	0.53
8:LO:311:LYS:H	8:LO:382:THR:HG22	1.74	0.53
8:ME:53:PHE:O	8:ME:64:ARG:NH2	2.41	0.53
8:ME:175:PRO:O	8:ME:394:LYS:NZ	2.37	0.53
8:ME:204:VAL:HG23	8:ME:302:MET:HG3	1.90	0.53
9:MH:252:LYS:NZ	50:MI:501:GTP:O3G	2.39	0.53
9:ML:324:LYS:HE3	8:MM:222:PRO:HG2	1.91	0.53
9:ML:338:SER:N	43:k:44:THR:O	2.35	0.53
9:MP:130:LEU:O	9:MP:162:ARG:NH1	2.36	0.53
8:NA:183:GLU:HA	8:NA:186:ASN:HD22	1.74	0.53
9:ND:66:VAL:HG12	9:ND:91:VAL:HB	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NF:121:ARG:HH22	9:OF:291:GLN:CD	2.16	0.53
8:NM:55:GLU:HA	8:NM:61:HIS:HA	1.91	0.53
9:NN:240:LEU:CD1	9:NN:249:ASP:HA	2.39	0.53
8:OA:49:PHE:O	8:OA:53:PHE:N	2.41	0.53
9:OD:330:MET:HE3	9:OD:349:VAL:HG12	1.91	0.53
8:OI:200:CYS:HA	8:OI:266:HIS:HB2	1.91	0.53
9:OL:113:VAL:HG11	9:OL:150:LEU:HD23	1.90	0.53
8:OM:103:TYR:HB3	8:OM:408:TYR:HE2	1.73	0.53
8:OO:51:THR:HG21	8:OO:243:ARG:HG2	1.91	0.53
26:P2:102:ILE:HD12	26:P2:102:ILE:H	1.73	0.53
27:P3:134:CYS:HB3	27:P3:153:LEU:HB2	1.91	0.53
8:PE:33:ASP:HA	8:PE:85:GLN:HE21	1.73	0.53
8:PG:209:ILE:HA	8:PG:212:ILE:CG2	2.37	0.53
9:PH:267:MET:SD	9:PH:267:MET:N	2.82	0.53
9:PJ:244:GLY:HA3	9:PJ:354:CYS:HA	1.91	0.53
9:PL:372:THR:HA	9:PL:422:TYR:CE1	2.38	0.53
28:Q1:51:PHE:HD1	28:Q1:58:ALA:HB1	1.74	0.53
28:Q3:154:ASN:OD1	28:Q3:155:GLN:HG2	2.09	0.53
28:Q3:175:ARG:HD2	28:Q3:179:THR:HG21	1.91	0.53
9:QB:357:PRO:HG3	9:QB:362:LYS:O	2.08	0.53
8:QE:86:LEU:O	8:RE:283:HIS:NE2	2.42	0.53
11:R0:319:GLU:OE2	11:R1:207:ARG:NH2	2.42	0.53
11:R1:414:THR:OG1	11:R1:416:ASN:OD1	2.26	0.53
9:RF:172:SER:OG	9:RF:205:GLU:OE1	2.21	0.53
8:RG:360:PRO:O	8:RG:370:LYS:NZ	2.39	0.53
9:RN:289:LEU:HD11	9:RN:363:MET:HB3	1.89	0.53
9:RP:316:VAL:HG23	9:RP:352:ALA:HB3	1.91	0.53
8:SA:264:ARG:NH1	8:SA:431:ASP:OD2	2.41	0.53
9:SF:11:GLN:OE1	9:SF:15:GLN:NE2	2.41	0.53
9:SJ:14:ASN:HD21	9:SJ:67:ASP:HB2	1.74	0.53
9:SJ:51:TYR:O	9:SJ:62:ARG:NH2	2.42	0.53
8:SK:70:LEU:HB3	8:SK:98:ASP:HA	1.91	0.53
9:SL:61:PRO:HG2	9:SL:85:PHE:HA	1.91	0.53
8:SM:203:MET:N	8:SM:203:MET:SD	2.82	0.53
14:T2:16:SER:OG	14:T2:17:ILE:N	2.42	0.53
9:TB:249:ASP:H	9:TB:252:LYS:HB2	1.74	0.53
9:TD:310:TYR:N	9:TD:340:TYR:O	2.38	0.53
8:TE:1:MET:HE1	8:TE:50:ASN:HB3	1.90	0.53
8:TK:84:ARG:C	8:TK:84:ARG:HE	2.17	0.53
9:TN:284:LEU:HD12	47:p:179:TRP:HE1	1.74	0.53
30:U7:399:ARG:NH2	30:U7:410:ASP:OD1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UC:252:LEU:HA	8:UC:255:PHE:CZ	2.43	0.53
9:UF:7:LEU:N	9:UF:134:GLN:O	2.42	0.53
9:UL:280:GLN:HG3	9:UL:281:TYR:CD1	2.44	0.53
9:UN:60:VAL:HG11	9:UN:86:ARG:HH21	1.73	0.53
30:V3:403:PRO:HG2	30:V4:259:SER:HB3	1.90	0.53
9:VB:7:LEU:N	9:VB:134:GLN:O	2.42	0.53
9:VB:324:LYS:HE2	8:VC:222:PRO:HD2	1.91	0.53
9:VD:313:VAL:HG12	9:VD:349:VAL:HG13	1.91	0.53
9:VH:10:GLY:O	9:VH:14:ASN:ND2	2.43	0.53
8:VI:33:ASP:HA	8:VI:85:GLN:HE21	1.74	0.53
8:VI:83:TYR:HB3	8:VI:86:LEU:HD23	1.90	0.53
8:VI:88:HIS:CD2	8:VI:90:GLU:HB3	2.44	0.53
8:VK:56:THR:HG22	8:VK:60:LYS:H	1.74	0.53
8:VO:188:ILE:O	8:VO:191:THR:OG1	2.23	0.53
31:W:434:LEU:HD12	31:W:434:LEU:H	1.74	0.53
30:W6:130:LEU:HD11	30:W6:134:MET:HE3	1.90	0.53
9:WD:285:THR:HB	9:WD:287:PRO:HD2	1.90	0.53
8:WG:275:VAL:HA	8:WG:368:LEU:HD11	1.91	0.53
9:WJ:267:MET:SD	9:WJ:267:MET:N	2.82	0.53
8:WM:107:HIS:HA	8:WM:152:LEU:HD23	1.90	0.53
8:WO:224:TYR:HA	8:WO:227:LEU:HD13	1.90	0.53
8:WO:236:SER:OG	8:WO:243:ARG:NH2	2.41	0.53
31:X:230:LEU:HB2	31:X:253:TYR:HB3	1.91	0.53
35:XB:24:ILE:HG23	35:XB:25:TRP:CD1	2.44	0.53
35:XE:140:THR:HG21	35:XE:148:TYR:HB2	1.91	0.53
36:Y4:35:THR:HG23	36:Y4:45:LYS:HG2	1.91	0.53
37:YA:180:ILE:HA	37:YA:183:ILE:HG12	1.90	0.53
40:a1:10:LYS:HZ1	40:a1:12:PRO:HD2	1.73	0.53
41:b2:142:ARG:HG3	41:b2:265:VAL:HG12	1.91	0.53
42:e:230:LEU:HD22	42:e:239:LEU:HD11	1.91	0.53
42:g:353:LYS:HA	42:g:376:THR:HA	1.91	0.53
4:j1:376:THR:HG21	4:j1:382:GLY:HA2	1.91	0.53
45:n:2:ALA:O	45:n:26:ARG:NH2	2.41	0.53
2:1:425:SER:HA	9:IB:359:ARG:NH2	2.20	0.52
2:2:509:GLU:HG3	2:2:514:LYS:HD2	1.91	0.52
5:8:32:ASN:ND2	5:8:36:GLU:OE1	2.41	0.52
7:A4:87:GLN:NE2	7:A4:236:THR:OG1	2.37	0.52
8:AA:9:VAL:HG11	8:AA:150:ALA:HB2	1.91	0.52
8:AE:41:THR:HG21	25:U:98:LYS:HB2	1.91	0.52
8:AE:324:VAL:HG12	8:AE:327:ASP:OD1	2.10	0.52
8:AG:386:GLU:O	8:AG:390:ARG:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AH:313:VAL:HB	9:AH:349:VAL:HG22	1.91	0.52
11:B3:32:ARG:NH2	11:B4:282:GLN:O	2.42	0.52
11:B4:56:ASP:O	11:B4:60:ASN:ND2	2.42	0.52
9:BB:276:ARG:O	25:T:116:ARG:NH1	2.34	0.52
8:BE:326:LYS:HZ3	9:BF:220:PRO:HD2	1.74	0.52
9:BF:207:LEU:HD21	9:BF:300:MET:HE3	1.89	0.52
8:BG:173:PRO:O	8:BG:390:ARG:NH2	2.39	0.52
8:BI:276:ILE:HG13	8:BI:281:ALA:HB2	1.90	0.52
8:BM:250:VAL:HG13	8:BM:254:GLU:HB2	1.92	0.52
9:BP:173:PRO:HG3	9:BP:380:ARG:HD2	1.90	0.52
10:C:401:GLN:O	10:C:405:LYS:NZ	2.42	0.52
8:CC:275:VAL:HG12	8:CC:368:LEU:HD11	1.91	0.52
9:CF:48:ASN:O	9:CF:62:ARG:NH2	2.39	0.52
14:D0:49:ALA:HA	12:S3:84:VAL:HG23	1.91	0.52
14:D4:162:ARG:HH12	14:D4:168:VAL:HG12	1.73	0.52
9:DH:221:THR:OG1	9:DH:222:TYR:N	2.42	0.52
8:DK:154:MET:HE1	8:DK:168:GLU:OE2	2.08	0.52
9:DP:256:ASN:HD22	8:DQ:182:VAL:HG22	1.74	0.52
9:DP:372:THR:HG21	9:DP:426:GLN:HB2	1.90	0.52
8:EA:339:ARG:C	8:EA:339:ARG:HE	2.18	0.52
8:EG:70:LEU:HB3	8:EG:98:ASP:HA	1.91	0.52
9:EH:78:SER:OG	25:V:468:GLY:N	2.42	0.52
8:EK:265:ILE:HG21	8:EK:313:MET:HE1	1.91	0.52
9:EL:309:ARG:NH2	9:EL:339:SER:O	2.41	0.52
8:FI:121:ARG:HE	8:FI:124:LYS:HD2	1.74	0.52
8:FO:252:LEU:HA	8:FO:255:PHE:CE1	2.44	0.52
8:GA:114:ILE:HA	8:GA:117:LEU:HD23	1.91	0.52
8:GA:175:PRO:O	8:GA:394:LYS:NZ	2.39	0.52
8:GG:53:PHE:HB3	8:GG:61:HIS:HB3	1.90	0.52
9:GH:324:LYS:O	9:GH:328:GLU:HG2	2.09	0.52
8:GI:191:THR:HA	8:GI:194:THR:HG22	1.91	0.52
8:GK:35:GLN:HG2	8:GK:60:LYS:HZ2	1.74	0.52
8:HE:108:TYR:HB2	8:HE:411:GLU:OE2	2.09	0.52
8:IA:147:SER:OG	8:IA:190:THR:OG1	2.27	0.52
8:IG:19:ALA:HA	8:IG:22:GLU:OE1	2.08	0.52
9:IH:130:LEU:O	9:IH:162:ARG:NH1	2.37	0.52
8:IK:164:LYS:O	8:IK:166:LYS:NZ	2.43	0.52
9:IN:116:VAL:HA	9:IN:119:VAL:HG22	1.90	0.52
8:IO:116:ASP:N	8:IO:116:ASP:OD1	2.40	0.52
8:IO:320:ARG:HD3	8:IO:360:PRO:HG3	1.91	0.52
9:JB:324:LYS:HD3	8:JC:222:PRO:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JD:322:SER:HB3	8:JE:222:PRO:O	2.09	0.52
8:JE:206:ASN:C	8:JE:210:TYR:HD2	2.17	0.52
8:JG:116:ASP:O	8:JG:120:ASP:N	2.39	0.52
9:JL:217:LEU:HB3	9:JL:220:PRO:HD3	1.92	0.52
9:JP:382:SER:O	9:JP:386:THR:OG1	2.22	0.52
8:KA:1:MET:SD	8:KA:2:ARG:NH1	2.82	0.52
8:KG:53:PHE:O	8:KG:64:ARG:NH1	2.42	0.52
9:KJ:172:SER:OG	9:KJ:205:GLU:OE1	2.25	0.52
8:KK:209:ILE:HB	8:KK:227:LEU:HD23	1.90	0.52
9:KN:156:ARG:HD3	9:KN:164:MET:CE	2.39	0.52
8:LA:264:ARG:HE	43:h:84:LYS:HZ1	1.57	0.52
8:LC:53:PHE:HB3	8:LC:61:HIS:HB3	1.91	0.52
9:LD:77:ARG:NH2	25:U:41:ARG:O	2.43	0.52
9:LP:263:LEU:HD22	9:LP:422:TYR:HD1	1.74	0.52
17:M:16:TYR:HB2	17:M:39:THR:HG21	1.90	0.52
17:M:302:ASN:OD1	17:M:305:ARG:NH2	2.35	0.52
9:MJ:231:ALA:HB2	23:P:139:MET:HE1	1.91	0.52
8:NA:7:ILE:HB	8:NA:137:ILE:HG22	1.91	0.52
8:NE:7:ILE:HB	8:NE:137:ILE:HD13	1.91	0.52
8:NG:251:ASP:OD1	8:NG:252:LEU:N	2.41	0.52
9:OD:300:MET:HA	9:OD:300:MET:HE3	1.89	0.52
9:OD:323:MET:HE2	8:OE:210:TYR:CZ	2.44	0.52
8:OK:98:ASP:OD1	8:OK:145:THR:OG1	2.27	0.52
8:PE:184:PRO:HB3	8:PE:394:LYS:HZ1	1.74	0.52
8:PK:269:LEU:HD21	8:PK:384:ILE:HD12	1.90	0.52
9:PP:86:ARG:O	9:PP:89:ASN:ND2	2.42	0.52
28:Q3:14:PRO:HB3	12:S1:285:ARG:HH21	1.74	0.52
9:QB:50:TYR:HE2	9:QB:241:ARG:HD3	1.74	0.52
9:QN:69:GLU:HG2	9:QN:71:GLY:H	1.75	0.52
8:QO:147:SER:OG	8:QO:190:THR:OG1	2.25	0.52
9:QP:49:VAL:HG21	9:QP:241:ARG:HG2	1.90	0.52
9:QP:260:PHE:HB3	9:QP:262:ARG:HH12	1.74	0.52
11:R0:279:LEU:HD11	11:R0:380:LYS:HD2	1.91	0.52
11:R1:323:TYR:OH	14:T3:209:GLU:OE1	2.26	0.52
8:RE:147:SER:OG	8:RE:190:THR:OG1	2.24	0.52
8:RI:360:PRO:O	8:RI:370:LYS:NZ	2.35	0.52
8:RK:5:ILE:HD13	8:RK:125:LEU:HB3	1.90	0.52
8:RM:349:THR:OG1	9:RN:181:GLU:OE2	2.27	0.52
9:RN:337:ASN:HB3	9:RN:340:TYR:HD2	1.73	0.52
12:S8:55:TYR:CE2	12:S8:68:TYR:HB2	2.43	0.52
12:S9:167:MET:O	12:S9:171:THR:HG23	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SB:327:ASP:HA	9:SB:330:MET:HE2	1.91	0.52
8:SC:171:ILE:HD13	8:SC:204:VAL:HG13	1.91	0.52
8:SC:317:MET:HE1	8:SC:375:VAL:HB	1.90	0.52
9:SD:358:PRO:HG2	9:SD:361:LEU:HB3	1.90	0.52
8:SE:360:PRO:O	8:SE:370:LYS:NZ	2.39	0.52
9:SJ:162:ARG:HH21	9:SJ:251:ARG:HH22	1.56	0.52
9:SL:51:TYR:O	9:SL:62:ARG:NH2	2.41	0.52
9:SN:69:GLU:HG2	9:SN:71:GLY:H	1.73	0.52
14:T4:75:GLU:HA	14:T4:78:ARG:HG3	1.91	0.52
14:T4:427:ARG:HH22	30:U1:132:HIS:CE1	2.25	0.52
14:T5:332:GLN:O	14:T5:336:ILE:HG23	2.10	0.52
8:TC:371:VAL:HA	47:o:162:ARG:HH21	1.74	0.52
8:TG:123:ARG:NE	8:TG:161:TYR:OH	2.36	0.52
9:TJ:68:LEU:HB3	9:TJ:96:GLY:HA2	1.91	0.52
8:TK:195:LEU:HD13	8:TK:428:LEU:HD11	1.91	0.52
30:U4:268:PHE:O	30:U4:271:ARG:NH2	2.42	0.52
30:U5:159:GLU:OE2	30:U5:311:ARG:NH1	2.42	0.52
30:U7:336:PHE:HE2	30:U7:476:PHE:CD2	2.27	0.52
30:U8:411:VAL:HG22	30:U8:412:PRO:HD3	1.90	0.52
9:UB:69:GLU:HG2	9:UB:71:GLY:H	1.74	0.52
9:UD:31:ASP:N	9:UD:37:HIS:HE1	2.07	0.52
9:UD:330:MET:SD	9:UD:349:VAL:HG11	2.49	0.52
9:UH:143:THR:HG22	9:UH:147:MET:HG2	1.90	0.52
8:UI:107:HIS:HA	8:UI:152:LEU:HD23	1.91	0.52
9:UJ:169:VAL:HA	9:UJ:202:ILE:HG22	1.91	0.52
8:UK:107:HIS:HA	8:UK:152:LEU:HD23	1.89	0.52
30:V1:391:MET:HE3	30:V2:272:SER:N	2.24	0.52
30:V5:149:LEU:HD22	30:V5:287:ASP:HB3	1.91	0.52
9:VH:210:ILE:HA	9:VH:297:LYS:NZ	2.23	0.52
9:VH:309:ARG:NH1	9:VH:341:PHE:O	2.34	0.52
8:VO:138:PHE:HZ	8:VO:235:VAL:HG11	1.73	0.52
8:VO:269:LEU:HD21	8:VO:384:ILE:HD12	1.91	0.52
30:W0:232:LEU:HD11	30:W0:317:LEU:HD21	1.91	0.52
30:W2:312:ALA:O	30:W2:316:ARG:HG2	2.08	0.52
30:W7:162:ARG:HH11	30:W7:311:ARG:HH22	1.57	0.52
8:WC:25:CYS:O	8:WC:30:ILE:N	2.42	0.52
9:WN:215:LEU:HD12	9:WN:275:SER:HA	1.90	0.52
9:WP:22:GLU:HG2	9:WP:81:PHE:HB2	1.90	0.52
34:X6:194:ASP:O	34:X6:198:LEU:HD12	2.09	0.52
34:X7:212:PHE:CE2	34:X7:223:ARG:HB3	2.44	0.52
35:XD:178:PRO:HB2	35:XD:180:GLU:OE2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XH:72:LYS:NZ	35:XH:149:ILE:O	2.41	0.52
31:Y:536:ASN:HD22	31:Y:539:LYS:NZ	2.07	0.52
36:Y1:106:TYR:O	36:Y1:107:PHE:HB2	2.08	0.52
36:Y1:107:PHE:N	36:Y1:108:PRO:HD3	2.23	0.52
37:YE:69:LEU:HD13	37:YE:110:PHE:HE1	1.74	0.52
31:Z:683:ASP:HA	31:Z:688:ILE:HG12	1.91	0.52
40:a2:11:LEU:H	40:a2:11:LEU:HD22	1.73	0.52
41:b4:429:MET:O	41:b4:433:LEU:HD23	2.09	0.52
46:i3:1396:TYR:O	46:i3:1400:ILE:HG13	2.08	0.52
46:i4:1423:ALA:HB3	46:i4:1455:ARG:NH2	2.24	0.52
4:j1:124:LYS:O	4:j1:128:ILE:HG12	2.09	0.52
4:j1:262:ILE:HG23	4:j1:374:HIS:HB3	1.90	0.52
2:2:461:SER:HG	8:IO:282:TYR:HH	1.55	0.52
3:3:18:PRO:O	3:3:19:LYS:HG2	2.08	0.52
7:A1:118:TYR:CD2	7:A1:389:LEU:HD21	2.44	0.52
7:A4:135:GLU:HG3	7:A4:260:VAL:HG22	1.90	0.52
8:AA:139:HIS:NE2	8:AA:168:GLU:OE2	2.42	0.52
9:AB:116:VAL:O	9:AB:120:VAL:HG13	2.10	0.52
9:AH:161:ASP:HB2	9:AH:162:ARG:HH21	1.74	0.52
9:AJ:66:VAL:HA	9:AJ:91:VAL:O	2.09	0.52
8:AM:298:PRO:HG3	8:AM:308:ARG:HE	1.74	0.52
9:AP:118:ASP:OD1	9:AP:121:ARG:NH2	2.39	0.52
9:BB:8:GLN:HE21	9:BB:14:ASN:HA	1.75	0.52
8:BE:125:LEU:HA	8:BE:128:LEU:HD23	1.91	0.52
8:BE:437:VAL:O	9:BF:391:ARG:NH2	2.42	0.52
8:BO:91:GLN:OE1	8:BO:121:ARG:NH1	2.37	0.52
8:BO:116:ASP:N	8:BO:116:ASP:OD1	2.43	0.52
8:BO:298:PRO:HA	8:BO:301:GLN:HG2	1.91	0.52
12:C2:199:LEU:HG	12:C2:219:LEU:HD13	1.90	0.52
8:CC:11:GLN:HA	8:CC:74:VAL:HG11	1.90	0.52
14:D0:95:THR:HG23	14:D1:376:ARG:HH22	1.75	0.52
14:D3:437:TYR:CD1	14:D3:438:PRO:HD2	2.44	0.52
14:D5:372:ASN:HA	14:D5:375:PHE:CD1	2.42	0.52
8:DO:269:LEU:HD22	8:DO:303:VAL:HG21	1.91	0.52
8:EA:188:ILE:O	8:EA:191:THR:OG1	2.27	0.52
9:EH:299:MET:HE3	9:EH:300:MET:N	2.24	0.52
8:EK:262:TYR:OH	9:EL:391:ARG:O	2.27	0.52
9:EL:10:GLY:O	9:EL:14:ASN:ND2	2.43	0.52
8:EO:276:ILE:HB	8:EO:280:LYS:HB2	1.91	0.52
9:FL:260:PHE:HB2	9:FL:263:LEU:CD1	2.39	0.52
9:FL:344:TRP:H	9:FL:344:TRP:CD1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FM:132:LEU:O	8:FM:164:LYS:NZ	2.36	0.52
8:FO:88:HIS:HD2	8:GO:283:HIS:HB2	1.74	0.52
8:GE:318:LEU:HB2	8:GE:376:CYS:HB3	1.92	0.52
8:GG:248:LEU:HB2	8:GG:355:ILE:HG22	1.91	0.52
9:HB:272:PRO:HG3	9:HB:364:SER:HA	1.91	0.52
9:HD:232:THR:HG21	9:HD:300:MET:HE1	1.90	0.52
9:HP:330:MET:SD	9:HP:349:VAL:HG11	2.50	0.52
8:IK:298:PRO:HG3	36:Y1:106:TYR:CE1	2.43	0.52
8:IM:251:ASP:OD1	8:IM:252:LEU:N	2.40	0.52
8:JC:3:GLU:O	8:JC:133:GLN:N	2.42	0.52
8:JC:342:GLN:HG3	34:X8:82:CYS:HB3	1.92	0.52
8:JI:288:VAL:HG21	8:JI:327:ASP:CG	2.34	0.52
8:JM:90:GLU:HG2	8:JM:121:ARG:HD2	1.92	0.52
9:JN:68:LEU:HD23	9:JN:93:GLY:HA3	1.91	0.52
9:KF:103:LYS:NZ	41:b2:390:ARG:HH12	2.07	0.52
9:KJ:379:LYS:HZ2	9:KJ:419:VAL:HB	1.74	0.52
9:KN:400:GLY:HA2	44:h4:123:PRO:HG3	1.91	0.52
8:LA:241:SER:O	8:LA:249:ASN:ND2	2.41	0.52
8:LI:326:LYS:HG3	9:LJ:212:PHE:HZ	1.73	0.52
9:LJ:284:LEU:HD12	9:LJ:362:LYS:HD3	1.90	0.52
9:LL:344:TRP:CG	8:LM:401:LYS:HD2	2.44	0.52
8:LM:211:ASP:HA	8:LM:214:ARG:HG2	1.91	0.52
22:M3:4:ARG:CZ	22:M3:30:VAL:HG12	2.40	0.52
9:MB:85:PHE:HB2	9:MB:90:PHE:HE1	1.74	0.52
8:ME:70:LEU:HB3	8:ME:98:ASP:HA	1.92	0.52
9:MF:3:GLU:N	9:MF:3:GLU:OE1	2.42	0.52
9:NH:316:VAL:HG22	9:NH:352:ALA:HB3	1.91	0.52
8:NK:49:PHE:HB2	8:NK:53:PHE:HB2	1.90	0.52
9:NL:258:VAL:HB	8:NM:407:TRP:HZ2	1.75	0.52
8:NM:53:PHE:HB3	8:NM:61:HIS:CD2	2.43	0.52
9:OB:68:LEU:HB3	9:OB:96:GLY:HA2	1.91	0.52
8:OM:228:ASN:HA	8:OM:231:ILE:HG12	1.91	0.52
9:ON:31:ASP:OD1	9:ON:35:THR:N	2.41	0.52
26:P1:48:VAL:HG11	26:P1:66:LYS:HE3	1.91	0.52
27:P6:145:GLU:OE1	27:P6:145:GLU:N	2.43	0.52
17:P9:69:SER:O	17:P9:72:LYS:NZ	2.36	0.52
17:P9:146:ARG:HG2	17:P9:165:ALA:HA	1.91	0.52
8:PE:254:GLU:OE1	8:PE:254:GLU:N	2.42	0.52
9:PJ:68:LEU:HG	9:PJ:143:THR:HG23	1.92	0.52
8:PM:18:ASN:O	8:PM:22:GLU:HG2	2.09	0.52
9:PP:106:TYR:CD2	9:PP:403:MET:HE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PP:327:ASP:O	9:PP:330:MET:HB3	2.10	0.52
28:Q4:31:TYR:H	32:X3:207:ARG:HH12	1.55	0.52
9:QB:52:ASN:HD22	9:QB:60:VAL:HG23	1.74	0.52
8:QE:191:THR:HA	8:QE:194:THR:HG22	1.92	0.52
8:QG:70:LEU:HB3	8:QG:98:ASP:HA	1.91	0.52
9:QL:330:MET:N	9:QL:330:MET:SD	2.83	0.52
9:QN:83:GLN:O	9:RN:281:TYR:OH	2.23	0.52
9:QP:323:MET:N	9:QP:323:MET:SD	2.81	0.52
11:R2:273:GLU:OE1	12:S1:39:HIS:NE2	2.41	0.52
11:R3:292:GLU:OE2	11:R4:39:ARG:NE	2.42	0.52
8:RI:185:TYR:CZ	8:RI:398:MET:HE2	2.44	0.52
8:RM:210:TYR:HB3	8:RM:214:ARG:HH21	1.74	0.52
8:RO:116:ASP:N	8:RO:116:ASP:OD1	2.41	0.52
9:RP:5:VAL:HG22	9:RP:62:ARG:HD2	1.90	0.52
12:S9:179:ARG:O	12:S9:183:ARG:HG2	2.09	0.52
8:SA:27:GLU:OE1	8:SA:361:THR:OG1	2.22	0.52
9:SD:24:ILE:HA	9:SD:27:GLU:HB3	1.91	0.52
8:SE:317:MET:HE2	8:SE:319:TYR:CD1	2.44	0.52
9:SH:124:ALA:HA	9:SH:130:LEU:HD21	1.92	0.52
9:SH:249:ASP:H	9:SH:252:LYS:HB3	1.72	0.52
8:SK:68:VAL:HG12	8:SK:93:ILE:HB	1.91	0.52
9:SL:27:GLU:HA	9:SL:359:ARG:HE	1.74	0.52
14:T3:102:LYS:NZ	14:T4:376:ARG:HD2	2.23	0.52
8:TI:188:ILE:O	8:TI:191:THR:OG1	2.21	0.52
9:TN:156:ARG:NH1	9:TN:197:ASP:OD1	2.42	0.52
30:U0:426:THR:HA	30:U1:127:LYS:NZ	2.24	0.52
30:U1:481:ARG:HD2	30:U1:486:THR:HG21	1.92	0.52
8:UG:317:MET:HB3	8:UG:353:VAL:HA	1.91	0.52
9:UH:7:LEU:HD21	9:UH:151:LEU:HD22	1.92	0.52
9:UH:69:GLU:HG2	9:UH:71:GLY:H	1.74	0.52
9:UJ:130:LEU:O	9:UJ:162:ARG:NH1	2.37	0.52
9:UJ:215:LEU:HD21	9:UJ:273:LEU:HD22	1.92	0.52
8:UK:102:ASN:HB3	8:UK:105:ARG:HB2	1.91	0.52
9:UN:23:VAL:HG11	9:UN:230:SER:HB3	1.90	0.52
8:VA:154:MET:HA	8:VA:157:LEU:HD12	1.90	0.52
8:VG:107:HIS:HA	8:VG:152:LEU:HD23	1.90	0.52
8:VI:139:HIS:O	8:VI:170:ALA:HA	2.09	0.52
8:VM:311:LYS:HE3	8:VM:344:VAL:HA	1.90	0.52
9:VN:372:THR:HA	9:VN:422:TYR:CE1	2.44	0.52
8:WA:326:LYS:HE3	9:WB:220:PRO:HG2	1.91	0.52
9:WH:325:GLU:OE2	9:WH:325:GLU:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WK:316:CYS:C	8:WK:317:MET:HE2	2.34	0.52
9:WN:325:GLU:O	9:WN:329:GLN:HG2	2.09	0.52
9:WP:6:HIS:ND1	9:WP:134:GLN:OE1	2.33	0.52
33:X4:180:ASN:HA	33:X4:184:ILE:HD12	1.91	0.52
35:XF:140:THR:HG21	35:XF:148:TYR:HB2	1.91	0.52
36:Y1:34:PRO:HD2	36:Y1:34:PRO:O	2.08	0.52
36:Y4:186:ARG:HG3	36:Y4:187:GLN:H	1.74	0.52
36:Y5:197:ALA:O	36:Y5:199:GLN:NE2	2.39	0.52
37:YE:68:ALA:HB3	37:YE:79:ALA:HB3	1.91	0.52
31:Z:230:LEU:HB3	31:Z:360:THR:HG22	1.92	0.52
31:Z:587:MET:HA	31:Z:594:LEU:HD21	1.91	0.52
40:a2:33:ASP:N	40:a2:33:ASP:OD1	2.41	0.52
41:b4:259:ALA:HA	41:b4:278:LEU:HD13	1.92	0.52
42:e:353:LYS:HA	42:e:376:THR:HA	1.91	0.52
42:f:586:HIS:CE1	42:f:612:LEU:HG	2.44	0.52
44:h4:45:PHE:HB3	44:h4:93:SER:HB2	1.91	0.52
3:4:431:GLN:O	3:4:434:MET:HG3	2.10	0.52
7:A0:306:GLN:HE22	7:A0:347:ASN:HB2	1.74	0.52
10:B:298:ARG:HH12	8:HA:29:GLY:HA3	1.74	0.52
11:B1:109:PRO:HA	11:B1:112:VAL:HG12	1.91	0.52
11:B2:141:VAL:O	11:B2:145:GLU:HG2	2.09	0.52
11:B4:185:ILE:HG13	11:B5:324:ARG:HG2	1.91	0.52
9:BH:270:PHE:CE2	9:BH:272:PRO:HD2	2.45	0.52
8:BI:60:LYS:HZ1	8:CI:283:HIS:CG	2.26	0.52
8:BK:311:LYS:H	8:BK:382:THR:HG22	1.73	0.52
8:BO:139:HIS:O	8:BO:170:ALA:HA	2.09	0.52
9:BP:320:ARG:NH1	17:O7:269:HIS:O	2.42	0.52
12:C2:425:TYR:O	12:C2:429:GLU:HG2	2.10	0.52
12:C5:401:ASP:O	12:C5:404:THR:OG1	2.22	0.52
12:C5:423:GLU:HA	12:C5:426:GLU:OE1	2.09	0.52
12:C6:85:SER:HA	28:Q5:50:LYS:NZ	2.25	0.52
9:CB:372:THR:HA	9:CB:422:TYR:CE1	2.40	0.52
9:CF:204:ASN:OD1	52:CF:502:GDP:N2	2.42	0.52
8:CG:68:VAL:HG22	8:CG:93:ILE:HB	1.91	0.52
9:CH:246:LEU:HD21	8:CI:179:THR:HB	1.90	0.52
8:CI:188:ILE:O	8:CI:191:THR:OG1	2.23	0.52
8:CI:254:GLU:HG3	9:CJ:98:GLY:HA2	1.91	0.52
8:CK:172:TYR:HH	8:CK:388:TRP:CD1	2.27	0.52
9:CP:170:VAL:HG11	9:CP:377:LEU:HD21	1.91	0.52
8:CQ:322:ASP:OD1	8:CQ:373:ARG:NH2	2.42	0.52
8:DI:141:PHE:HB2	8:DI:173:PRO:HD3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:279:GLU:OE2	40:a3:125:ARG:NH1	2.41	0.52
9:DN:198:GLU:HA	9:DN:264:HIS:HB2	1.92	0.52
8:DO:338:LYS:HD3	8:DO:341:ILE:HG12	1.91	0.52
8:EA:346:TRP:HZ2	8:EA:435:VAL:HG13	1.73	0.52
8:EG:284:GLU:HG3	8:EG:286:LEU:HD22	1.92	0.52
8:EI:322:ASP:OD1	8:EI:373:ARG:NH2	2.42	0.52
9:EJ:180:VAL:HG13	9:EJ:184:ASN:HD21	1.73	0.52
9:EL:324:LYS:HB3	8:EM:221:ARG:HH12	1.75	0.52
8:FC:3:GLU:H	8:FC:133:GLN:HG2	1.74	0.52
8:FC:324:VAL:HG12	8:FC:326:LYS:H	1.73	0.52
9:FL:32:PRO:O	9:FL:83:GLN:NE2	2.42	0.52
9:FN:165:ASN:HD21	9:FN:250:LEU:HD11	1.74	0.52
9:GB:309:ARG:HG3	9:GB:426:GLN:HG3	1.91	0.52
9:GJ:31:ASP:OD1	9:GJ:35:THR:N	2.43	0.52
8:GM:227:LEU:O	8:GM:231:ILE:HG13	2.09	0.52
8:HC:16:ILE:HA	8:HC:228:ASN:OD1	2.10	0.52
9:HD:211:CYS:HA	9:HD:215:LEU:HB2	1.91	0.52
8:HI:251:ASP:O	8:HI:254:GLU:HB2	2.09	0.52
9:HJ:117:LEU:HA	9:HJ:120:VAL:HG22	1.91	0.52
9:HL:65:LEU:HD11	9:HL:85:PHE:CE2	2.45	0.52
9:HL:282:ARG:O	9:HL:283:ALA:C	2.52	0.52
8:IA:203:MET:HE1	8:IA:388:TRP:CD1	2.45	0.52
9:IB:306:ARG:HG3	9:IB:340:TYR:HE2	1.73	0.52
8:IC:326:LYS:HE2	9:ID:220:PRO:HB2	1.91	0.52
8:IE:252:LEU:HA	8:IE:255:PHE:CD1	2.45	0.52
9:IF:173:PRO:HG3	9:IF:380:ARG:HD2	1.91	0.52
8:II:297:GLU:HA	36:Y1:139:PRO:HB3	1.90	0.52
8:IK:331:ALA:O	8:IK:335:ILE:HG12	2.09	0.52
9:IL:131:GLN:HB3	9:IL:163:ILE:HD11	1.91	0.52
9:IL:372:THR:HA	9:IL:422:TYR:HE1	1.74	0.52
9:IP:173:PRO:HG3	9:IP:380:ARG:HD2	1.91	0.52
9:IP:206:ALA:O	9:IP:210:ILE:HG13	2.09	0.52
19:J4:271:ARG:HA	19:J4:280:TYR:HB3	1.91	0.52
8:JG:258:ASN:OD1	9:JH:99:ASN:ND2	2.41	0.52
9:JH:375:GLN:NE2	9:JH:423:GLN:OE1	2.42	0.52
8:JK:84:ARG:NH1	8:JK:85:GLN:OE1	2.42	0.52
9:JN:6:HIS:HA	9:JN:134:GLN:NE2	2.24	0.52
8:JO:358:GLN:NE2	8:JO:359:PRO:O	2.38	0.52
8:KC:139:HIS:NE2	8:KC:168:GLU:OE2	2.40	0.52
8:KI:362:VAL:HG13	8:KI:370:LYS:HD2	1.92	0.52
8:KM:154:MET:HA	8:KM:154:MET:HE3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LC:230:LEU:HD21	8:LC:368:LEU:HD21	1.91	0.52
9:LD:249:ASP:N	9:LD:249:ASP:OD1	2.41	0.52
9:LF:436:PHE:HD1	9:LF:437:GLU:HG3	1.73	0.52
9:LH:55:THR:N	9:MH:282:ARG:O	2.41	0.52
9:LN:225:LEU:O	9:LN:229:VAL:HG23	2.10	0.52
9:MB:79:GLY:HA2	23:O:20:ARG:HH12	1.75	0.52
9:MH:242:PHE:HB3	9:MH:356:ILE:HD12	1.91	0.52
9:MH:347:ASN:ND2	8:MI:178:SER:HB2	2.24	0.52
8:NE:427:ALA:HA	8:NE:430:LYS:HD2	1.91	0.52
9:NF:169:VAL:HA	9:NF:202:ILE:HG22	1.92	0.52
8:NG:408:TYR:HB3	8:NG:413:MET:HE2	1.91	0.52
9:NJ:376:GLU:HG2	9:NJ:380:ARG:HH21	1.74	0.52
8:NK:253:THR:O	8:NK:257:THR:OG1	2.26	0.52
24:O4:172:ILE:HD12	24:O4:172:ILE:H	1.73	0.52
25:O5:277:GLU:OE1	25:O5:279:HIS:ND1	2.42	0.52
9:OB:310:TYR:N	9:OB:340:TYR:O	2.35	0.52
9:OJ:10:GLY:O	9:OJ:14:ASN:ND2	2.43	0.52
8:OK:172:TYR:OH	8:OK:390:ARG:NH1	2.40	0.52
8:OO:252:LEU:HA	8:OO:255:PHE:CZ	2.45	0.52
8:PC:269:LEU:N	8:PC:379:SER:O	2.38	0.52
9:PF:134:GLN:NE2	9:PF:165:ASN:O	2.42	0.52
8:PG:152:LEU:O	8:PG:155:GLU:HG2	2.09	0.52
9:PH:10:GLY:O	9:PH:14:ASN:ND2	2.42	0.52
9:PH:322:SER:OG	8:PI:222:PRO:O	2.13	0.52
8:PO:33:ASP:OD1	8:PO:34:GLY:N	2.43	0.52
8:QE:139:HIS:O	8:QE:170:ALA:HA	2.09	0.52
8:QG:25:CYS:HB2	8:QG:30:ILE:HB	1.91	0.52
9:QH:7:LEU:N	9:QH:134:GLN:O	2.41	0.52
8:QO:264:ARG:NH1	8:QO:431:ASP:OD2	2.43	0.52
29:R:35:ARG:HG2	29:R:36:ILE:HD13	1.91	0.52
8:RE:171:ILE:HD13	8:RE:204:VAL:HG13	1.92	0.52
9:RH:324:LYS:O	9:RH:328:GLU:N	2.42	0.52
8:RI:346:TRP:HB3	9:RJ:390:ARG:HH12	1.74	0.52
9:SD:247:ASN:O	9:SD:252:LYS:NZ	2.36	0.52
8:SK:271:THR:OG1	8:SK:301:GLN:OE1	2.25	0.52
9:SL:32:PRO:O	9:SL:83:GLN:NE2	2.42	0.52
8:SM:235:VAL:HA	8:SM:238:ILE:HD12	1.91	0.52
8:TA:315:CYS:HB3	8:TA:377:MET:HE1	1.90	0.52
9:TB:8:GLN:NE2	9:TB:13:GLY:O	2.37	0.52
9:TL:164:MET:HE3	9:TL:164:MET:HA	1.91	0.52
30:U2:244:ARG:NH2	30:U7:193:GLU:OE1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U2:409:ARG:NH1	30:U3:289:THR:OG1	2.42	0.52
30:U6:218:GLU:O	30:U6:222:LEU:HG	2.10	0.52
9:UB:6:HIS:CD2	9:UB:21:TRP:HE1	2.28	0.52
8:UO:49:PHE:HB2	8:UO:53:PHE:HD2	1.74	0.52
30:V2:395:MET:SD	30:V2:395:MET:N	2.82	0.52
30:V5:197:ASN:OD1	30:V5:468:LYS:NZ	2.41	0.52
30:V5:268:PHE:HZ	30:V5:279:PHE:HB3	1.73	0.52
9:VB:362:LYS:HZ1	39:a:340:VAL:C	2.17	0.52
8:VG:216:ASN:O	8:VG:280:LYS:NZ	2.39	0.52
9:VH:119:VAL:HG13	9:VH:122:LYS:HE2	1.92	0.52
9:WB:156:ARG:HD3	9:WB:164:MET:HE2	1.92	0.52
9:WB:344:TRP:H	9:WB:344:TRP:CD1	2.27	0.52
8:WC:311:LYS:HD3	8:WC:344:VAL:HA	1.91	0.52
8:WI:288:VAL:O	8:WI:292:THR:HG22	2.10	0.52
9:WN:330:MET:SD	9:WN:349:VAL:HB	2.50	0.52
8:WO:63:PRO:O	8:WO:91:GLN:NE2	2.37	0.52
34:X8:14:LEU:HA	34:X8:29:ALA:HA	1.90	0.52
35:XB:53:ASN:HB3	35:XB:56:THR:HG23	1.91	0.52
43:i:146:ILE:HD11	45:m:61:TRP:CE2	2.44	0.52
45:i1:12:LYS:HA	45:i1:15:LEU:HG	1.91	0.52
2:1:461:SER:OG	8:IC:282:TYR:OH	2.24	0.52
3:3:29:LYS:C	3:3:31:GLN:H	2.16	0.52
7:A5:202:GLU:N	7:A5:202:GLU:OE1	2.42	0.52
9:AH:67:ASP:O	9:AH:92:PHE:HA	2.09	0.52
9:AH:379:LYS:O	9:AH:383:GLU:HG2	2.10	0.52
9:AL:54:ALA:HA	9:BL:283:ALA:HB2	1.91	0.52
9:AL:100:ASN:HB3	9:AL:103:LYS:HG3	1.91	0.52
10:B:306:LEU:HD11	8:HA:364:PRO:CG	2.40	0.52
11:B4:7:LYS:O	11:B4:11:ARG:NH1	2.29	0.52
11:B4:202:LYS:HE2	11:B5:316:THR:HA	1.92	0.52
9:BB:51:TYR:O	9:BB:62:ARG:NH2	2.43	0.52
9:BH:122:LYS:NZ	9:CH:291:GLN:OE1	2.42	0.52
8:BK:214:ARG:NH2	8:BK:220:GLU:O	2.38	0.52
8:BK:254:GLU:HG2	9:BL:98:GLY:HA2	1.91	0.52
12:C1:426:GLU:O	12:C1:430:THR:OG1	2.21	0.52
12:C4:401:ASP:O	12:C4:404:THR:OG1	2.25	0.52
9:CL:170:VAL:HG21	9:CL:377:LEU:HD11	1.90	0.52
8:DI:345:ASP:N	8:DI:345:ASP:OD1	2.42	0.52
8:EG:30:ILE:HD13	8:EG:36:MET:HE1	1.91	0.52
9:EN:60:VAL:HG11	9:FN:281:TYR:HB3	1.92	0.52
8:FE:326:LYS:HD3	9:FF:212:PHE:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FF:165:ASN:HB3	9:FF:200:TYR:HE2	1.75	0.52
9:FH:324:LYS:HD3	8:FI:210:TYR:CG	2.44	0.52
9:FJ:330:MET:HA	9:FJ:333:VAL:HG12	1.91	0.52
9:FL:204:ASN:ND2	52:FL:502:GDP:N3	2.57	0.52
8:GA:312:TYR:HE2	8:GA:341:ILE:HD12	1.73	0.52
9:GD:28:HIS:ND1	9:GD:43:GLN:O	2.36	0.52
9:GL:346:PRO:HD3	8:GM:397:LEU:HD11	1.90	0.52
8:GO:264:ARG:NH1	8:GO:431:ASP:OD2	2.42	0.52
9:HL:299:MET:HE3	9:HL:300:MET:N	2.24	0.52
9:ID:309:ARG:HH21	9:ID:342:VAL:HA	1.74	0.52
8:II:245:ASP:OD1	8:II:245:ASP:N	2.39	0.52
8:II:252:LEU:HA	8:II:255:PHE:HE2	1.74	0.52
9:IL:189:VAL:HA	9:IL:192:LEU:HB2	1.91	0.52
9:IN:87:PRO:HA	9:IN:90:PHE:CE2	2.44	0.52
9:IP:344:TRP:H	9:IP:344:TRP:CD1	2.28	0.52
9:JB:198:GLU:HB2	9:JB:266:PHE:HE2	1.75	0.52
9:JH:10:GLY:O	9:JH:14:ASN:ND2	2.39	0.52
8:JI:396:ASP:OD1	8:JI:422:ARG:NE	2.37	0.52
17:K:204:LEU:HD22	17:K:258:VAL:HG12	1.91	0.52
8:KG:262:TYR:OH	9:KH:391:ARG:O	2.26	0.52
9:KH:156:ARG:NH1	9:KH:197:ASP:OD1	2.42	0.52
9:KJ:213:ARG:HE	9:KJ:214:THR:HG23	1.74	0.52
8:KO:116:ASP:N	8:KO:116:ASP:OD1	2.42	0.52
9:KP:36:TYR:CD2	9:KP:44:LEU:HD13	2.45	0.52
9:KP:309:ARG:NH2	9:KP:339:SER:O	2.43	0.52
9:KP:311:LEU:HD23	9:KP:312:THR:HG23	1.91	0.52
8:LA:53:PHE:HB3	8:LA:61:HIS:HB3	1.90	0.52
8:LA:209:ILE:HD12	8:LA:209:ILE:H	1.73	0.52
8:LE:7:ILE:HD12	8:LE:137:ILE:HG12	1.92	0.52
9:LF:263:LEU:HD23	9:LF:422:TYR:CE1	2.45	0.52
8:LM:88:HIS:CE1	8:LM:90:GLU:HB3	2.45	0.52
8:LM:215:ARG:NH2	8:LM:300:ASN:OD1	2.42	0.52
8:MM:116:ASP:N	8:MM:116:ASP:OD1	2.41	0.52
8:MM:186:ASN:O	8:MM:190:THR:OG1	2.21	0.52
9:MN:5:VAL:HB	9:MN:133:PHE:HD1	1.74	0.52
8:MO:157:LEU:HD22	8:MO:166:LYS:HD3	1.91	0.52
15:N2:199:ALA:HB3	15:N2:221:VAL:HB	1.91	0.52
9:NB:167:PHE:CE2	9:NB:233:MET:HB3	2.44	0.52
9:ND:87:PRO:HD2	9:OD:282:ARG:HH12	1.74	0.52
8:NI:123:ARG:NE	36:Y4:70:TYR:OH	2.43	0.52
23:O:50:GLU:HA	23:O:53:LYS:HZ2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O1:45:ASN:O	24:O1:100:ARG:NH1	2.43	0.52
9:OB:124:ALA:HA	9:OB:130:LEU:HD21	1.90	0.52
9:OH:20:PHE:CE2	9:OH:230:SER:HA	2.44	0.52
8:OK:31:GLN:HE21	8:OK:37:PRO:HD3	1.75	0.52
8:OM:167:LEU:HD12	8:OM:202:PHE:CZ	2.45	0.52
9:OP:173:PRO:HG2	9:OP:174:LYS:HE2	1.92	0.52
27:P3:170:ASN:ND2	11:R0:372:ARG:HE	2.07	0.52
8:PE:88:HIS:CE1	8:PE:90:GLU:HB3	2.45	0.52
9:PF:236:VAL:HG23	9:PF:237:THR:HG23	1.92	0.52
8:PG:257:THR:HB	9:PH:99:ASN:HD21	1.75	0.52
9:PL:321:MET:HE1	9:PL:326:VAL:CG2	2.40	0.52
9:PN:58:LYS:NZ	9:PN:59:TYR:O	2.43	0.52
8:QE:79:ARG:NH2	8:QE:92:LEU:O	2.42	0.52
11:R0:290:ILE:O	11:R0:294:GLN:HG2	2.08	0.52
11:R3:54:VAL:O	11:R3:58:HIS:ND1	2.41	0.52
9:RD:223:GLY:O	9:RD:227:HIS:N	2.39	0.52
8:RE:138:PHE:CD2	8:RE:169:PHE:HB2	2.44	0.52
9:RF:167:PHE:CE2	9:RF:233:MET:HB3	2.44	0.52
8:RG:292:THR:HG21	8:RG:331:ALA:HB1	1.92	0.52
9:RH:274:THR:HB	9:RH:278:SER:HB2	1.90	0.52
8:RI:70:LEU:HB3	8:RI:98:ASP:HA	1.92	0.52
9:RJ:282:ARG:NE	9:RJ:288:GLU:OE1	2.34	0.52
9:RN:262:ARG:HH21	9:RN:418:LEU:HD13	1.73	0.52
12:S5:178:LYS:HZ2	12:S5:240:ALA:HB3	1.73	0.52
12:S7:126:ARG:HA	12:S7:129:GLN:HE21	1.75	0.52
8:SI:20:CYS:O	8:SI:23:LEU:HG	2.09	0.52
14:T3:221:VAL:HG22	14:T4:363:ARG:HG2	1.91	0.52
8:TA:170:ALA:HB3	8:TA:203:MET:HE3	1.92	0.52
9:TD:8:GLN:HE21	9:TD:14:ASN:HA	1.73	0.52
9:TD:237:THR:HG22	9:TD:250:LEU:HD21	1.92	0.52
8:TK:297:GLU:O	8:TK:301:GLN:NE2	2.35	0.52
9:TN:309:ARG:NH2	9:TN:339:SER:O	2.42	0.52
30:U1:181:ALA:HB1	30:U1:230:ARG:HH21	1.74	0.52
9:UB:135:LEU:HD12	9:UB:152:ILE:HD11	1.91	0.52
9:UD:252:LYS:NZ	50:UE:501:GTP:O3G	2.32	0.52
9:UF:5:VAL:HG22	9:UF:62:ARG:HD2	1.91	0.52
9:UF:113:VAL:HA	9:UF:116:VAL:HG22	1.92	0.52
8:UG:251:ASP:HB3	8:UG:254:GLU:HG3	1.90	0.52
8:UO:225:THR:OG1	8:UO:229:ARG:NH2	2.32	0.52
8:VA:286:LEU:O	8:VA:373:ARG:NH1	2.43	0.52
8:VA:317:MET:HE2	8:VA:317:MET:HA	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VC:216:ASN:O	8:VC:280:LYS:NZ	2.41	0.52
8:VE:213:CYS:HA	8:VE:217:LEU:HD23	1.90	0.52
9:VJ:309:ARG:NH2	9:VJ:339:SER:O	2.43	0.52
9:VL:36:TYR:OH	9:VL:40:SER:O	2.27	0.52
9:VL:309:ARG:NH2	9:VL:339:SER:O	2.41	0.52
8:WC:150:ALA:O	8:WC:154:MET:HG2	2.10	0.52
8:WG:318:LEU:HB2	8:WG:376:CYS:HB3	1.90	0.52
9:WH:284:LEU:HD13	9:WH:362:LYS:HD3	1.90	0.52
35:XE:180:GLU:OE1	35:XE:180:GLU:N	2.29	0.52
35:XG:102:ARG:NH1	35:XG:117:PHE:HD1	2.07	0.52
36:Y4:134:ASP:OD1	36:Y4:135:SER:N	2.43	0.52
37:YH:115:ILE:HA	37:YH:118:MET:HE2	1.91	0.52
41:b1:432:ASN:O	41:b1:436:LEU:HG	2.10	0.52
44:h4:87:SER:H	44:h4:95:ARG:HH11	1.57	0.52
2:1:395:LEU:HD13	2:1:399:MET:HE2	1.90	0.52
9:AH:26:ASP:OD1	9:AH:359:ARG:NH1	2.42	0.52
8:AK:5:ILE:HD12	8:AK:135:PHE:HE1	1.74	0.52
8:AO:357:TYR:HB3	33:X5:114:TYR:HE1	1.75	0.52
9:BD:39:ASP:OD2	9:BD:40:SER:N	2.41	0.52
9:BD:358:PRO:HG2	9:BD:361:LEU:HB3	1.91	0.52
9:BF:404:ASP:N	9:BF:404:ASP:OD1	2.41	0.52
8:BI:53:PHE:HB3	8:BI:61:HIS:HB3	1.92	0.52
9:BN:156:ARG:HG3	9:BN:195:ASN:HB3	1.91	0.52
8:BO:102:ASN:HB3	8:BO:105:ARG:HB2	1.90	0.52
9:CB:295:ASP:OD1	9:CB:296:ALA:N	2.43	0.52
9:CF:346:PRO:HG2	8:CG:394:LYS:NZ	2.24	0.52
8:CK:211:ASP:HB3	8:CK:215:ARG:HH12	1.73	0.52
9:DB:69:GLU:HG2	9:DB:71:GLY:H	1.75	0.52
8:DE:317:MET:HE1	8:DE:375:VAL:HG23	1.90	0.52
9:DF:67:ASP:HA	9:DF:143:THR:HG21	1.92	0.52
8:DI:60:LYS:HD3	8:EG:283:HIS:CD2	2.45	0.52
9:DJ:19:LYS:NZ	9:DJ:223:GLY:O	2.41	0.52
8:DQ:135:PHE:HD2	8:DQ:166:LYS:HG2	1.72	0.52
8:EA:55:GLU:OE1	8:EA:55:GLU:N	2.42	0.52
8:EC:339:ARG:HH21	8:EC:342:GLN:HG2	1.75	0.52
9:ED:20:PHE:CG	9:ED:233:MET:HE2	2.44	0.52
8:EM:269:LEU:HD22	8:EM:303:VAL:HG21	1.90	0.52
8:EM:346:TRP:HZ2	8:EM:435:VAL:HG13	1.74	0.52
9:EN:375:GLN:NE2	9:EN:423:GLN:OE1	2.34	0.52
9:FF:344:TRP:CD1	9:FF:344:TRP:H	2.27	0.52
9:FH:344:TRP:H	9:FH:344:TRP:CD1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FI:362:VAL:HG13	31:Y:708:GLN:HE22	1.75	0.52
8:FK:119:LEU:HB3	36:Y2:106:TYR:CE1	2.45	0.52
8:FM:51:THR:HG21	8:FM:243:ARG:HG2	1.91	0.52
9:FN:362:LYS:O	9:FN:363:MET:HE2	2.10	0.52
9:GJ:372:THR:HG21	9:GJ:426:GLN:HB2	1.91	0.52
8:GM:340:THR:HA	36:Y2:69:ARG:NE	2.24	0.52
8:HG:74:VAL:HA	8:HG:77:GLU:OE1	2.09	0.52
9:IB:13:GLY:HA2	9:IB:136:THR:HG23	1.90	0.52
8:IC:183:GLU:HA	8:IC:186:ASN:HD22	1.75	0.52
9:IH:207:LEU:HG	9:IH:225:LEU:HD22	1.92	0.52
9:IH:287:PRO:HB3	36:Y1:159:PRO:HG2	1.91	0.52
8:IO:151:SER:HA	8:IO:193:THR:HG21	1.92	0.52
19:J2:103:TRP:HB3	9:OD:361:LEU:HD13	1.92	0.52
19:J3:33:ARG:NH1	19:J3:80:GLY:O	2.42	0.52
8:JC:326:LYS:NZ	9:JD:208:TYR:O	2.41	0.52
8:JC:385:ALA:HA	8:JC:388:TRP:HD1	1.74	0.52
9:JF:169:VAL:HG22	9:JF:202:ILE:HD11	1.92	0.52
8:JK:345:ASP:N	8:JK:345:ASP:OD1	2.40	0.52
8:JM:70:LEU:HB3	8:JM:98:ASP:HA	1.92	0.52
9:JN:187:LEU:HD11	9:JN:408:PHE:HE1	1.74	0.52
9:JN:252:LYS:O	9:JN:256:ASN:HB2	2.09	0.52
17:K:314:ARG:HA	17:K:317:HIS:CE1	2.45	0.52
20:K2:17:HIS:CB	8:TM:130:THR:HG22	2.40	0.52
8:KA:12:ALA:O	8:KA:16:ILE:HG22	2.09	0.52
8:KG:319:TYR:CD2	8:KG:323:VAL:HG21	2.45	0.52
9:LB:12:CYS:SG	9:LB:169:VAL:HG21	2.49	0.52
8:LC:172:TYR:HB2	8:LC:203:MET:HB2	1.92	0.52
9:LL:219:THR:O	9:LL:219:THR:OG1	2.26	0.52
8:LM:27:GLU:OE2	8:LM:243:ARG:NH2	2.42	0.52
8:NC:223:THR:OG1	8:NC:224:TYR:N	2.43	0.52
9:NF:33:THR:O	9:NF:58:LYS:HE2	2.10	0.52
9:NF:202:ILE:HD12	9:NF:300:MET:HG3	1.92	0.52
8:NG:367:ASP:OD1	8:NG:367:ASP:N	2.42	0.52
8:NK:2:ARG:HH22	9:NL:71:GLY:N	2.07	0.52
9:NN:241:ARG:HD3	9:NN:241:ARG:H	1.74	0.52
9:NP:125:GLU:OE2	9:OP:291:GLN:NE2	2.43	0.52
9:NP:178:THR:HB	9:NP:181:GLU:HB2	1.92	0.52
23:O:16:ILE:O	23:O:20:ARG:HG2	2.09	0.52
24:O2:21:LEU:HD11	24:O2:29:PHE:HB3	1.91	0.52
8:OA:399:TYR:O	8:OA:402:ARG:NH1	2.36	0.52
9:OB:226:ASN:O	9:OB:230:SER:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OB:346:PRO:HG3	8:OC:394:LYS:HB2	1.91	0.52
9:OD:34:GLY:HA3	9:OD:58:LYS:HG3	1.92	0.52
8:OE:60:LYS:NZ	8:OE:86:LEU:O	2.40	0.52
27:P4:26:LYS:HE3	27:P4:26:LYS:HA	1.92	0.52
9:PD:7:LEU:HB3	9:PD:135:LEU:HD13	1.92	0.52
8:PE:7:ILE:HD12	8:PE:137:ILE:HD11	1.92	0.52
9:PF:289:LEU:HG	9:PF:363:MET:HE3	1.90	0.52
9:PJ:10:GLY:O	9:PJ:14:ASN:ND2	2.42	0.52
9:PJ:118:ASP:OD1	9:PJ:121:ARG:NH2	2.39	0.52
9:PL:69:GLU:HG2	9:PL:71:GLY:H	1.75	0.52
9:PL:275:SER:O	9:PL:279:GLN:NE2	2.43	0.52
28:Q1:48:ARG:NH1	12:S5:306:ASP:OD2	2.43	0.52
8:QE:286:LEU:O	8:QE:373:ARG:NH1	2.43	0.52
8:QM:33:ASP:N	8:QM:33:ASP:OD1	2.43	0.52
29:R:190:LYS:O	29:R:194:THR:HG23	2.10	0.52
11:R2:384:LEU:O	11:R2:388:THR:OG1	2.27	0.52
9:RH:403:MET:SD	9:RH:403:MET:N	2.83	0.52
9:RJ:48:ASN:O	9:RJ:62:ARG:NH2	2.43	0.52
8:RK:184:PRO:O	8:RK:188:ILE:HG12	2.10	0.52
12:S3:283:TYR:CD2	12:S4:394:LYS:HD3	2.43	0.52
12:S3:436:GLN:NE2	12:S3:440:ASP:OD1	2.42	0.52
8:SA:112:LYS:HA	8:SA:115:VAL:HG23	1.90	0.52
9:SB:207:LEU:HD12	9:SB:225:LEU:HD23	1.92	0.52
8:SC:285:GLN:HE22	8:SC:287:SER:HB3	1.73	0.52
9:SF:8:GLN:HE21	9:SF:14:ASN:HA	1.75	0.52
14:T1:41:LEU:HD12	14:T1:43:THR:H	1.74	0.52
8:TA:63:PRO:O	8:TA:91:GLN:NE2	2.34	0.52
8:TC:147:SER:OG	8:TC:190:THR:OG1	2.25	0.52
8:TE:311:LYS:HA	8:TE:342:GLN:HE21	1.74	0.52
9:TF:180:VAL:HG22	9:TF:183:TYR:HB2	1.90	0.52
8:TI:7:ILE:HG13	8:TI:137:ILE:HD13	1.91	0.52
9:TL:285:THR:HB	9:TL:287:PRO:HD2	1.92	0.52
30:U2:468:LYS:HA	30:U2:468:LYS:HE3	1.90	0.52
30:U3:367:GLU:CD	30:U4:110:ARG:HE	2.18	0.52
30:U3:405:VAL:HG13	30:U4:296:TRP:HD1	1.74	0.52
30:U8:340:ASN:OD1	30:U8:473:ARG:NH2	2.41	0.52
8:UA:169:PHE:CE1	8:UA:235:VAL:HG22	2.44	0.52
9:UB:372:THR:HA	9:UB:422:TYR:HE1	1.75	0.52
8:UC:348:PRO:HD2	9:UD:388:MET:HE1	1.92	0.52
8:UE:195:LEU:HD11	8:UE:264:ARG:HD3	1.91	0.52
8:UO:245:ASP:HA	8:UO:249:ASN:HD21	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:V:260:ARG:NH2	25:V:283:ASN:OD1	2.37	0.52
25:V:446:THR:OG1	25:V:448:MET:HG2	2.10	0.52
30:V3:244:ARG:NH1	30:V3:244:ARG:O	2.43	0.52
30:V5:198:ARG:NH1	30:V5:209:ASP:OD1	2.43	0.52
30:V9:376:MET:HE1	30:V9:380:ARG:HD2	1.92	0.52
30:V9:388:PRO:HA	30:V9:391:MET:HE2	1.92	0.52
8:VA:324:VAL:HG12	8:VA:326:LYS:HG2	1.92	0.52
8:VC:155:GLU:OE2	8:VC:156:ARG:NH1	2.40	0.52
9:VF:113:VAL:HG11	9:VF:150:LEU:HD23	1.91	0.52
9:VH:252:LYS:O	9:VH:350:LYS:NZ	2.40	0.52
8:VK:34:GLY:HA3	8:VK:60:LYS:HE2	1.91	0.52
8:VK:102:ASN:HB3	8:VK:105:ARG:HB2	1.92	0.52
9:VN:180:VAL:HG23	9:VN:184:ASN:HD21	1.75	0.52
9:VN:375:GLN:HA	9:VN:378:PHE:HD2	1.74	0.52
8:VO:139:HIS:ND1	8:VO:146:GLY:O	2.43	0.52
8:WA:339:ARG:HH21	8:WA:342:GLN:HG2	1.74	0.52
8:WG:377:MET:HA	8:WG:377:MET:HE2	1.91	0.52
9:WJ:350:LYS:HE2	8:WK:180:ALA:HA	1.92	0.52
8:WK:84:ARG:HH21	39:a:79:ILE:HD11	1.75	0.52
31:X:82:ASP:N	31:X:82:ASP:OD1	2.42	0.52
31:X:287:TYR:HB3	40:a2:57:ASN:HD21	1.74	0.52
31:X:367:LYS:HD3	40:a2:75:VAL:HG21	1.92	0.52
34:X7:112:ALA:O	34:X7:115:LEU:HD12	2.10	0.52
34:X7:196:TRP:HD1	34:X7:196:TRP:O	1.92	0.52
40:a1:68:PRO:O	40:a1:70:CYS:N	2.34	0.52
41:b4:382:LEU:H	41:b4:382:LEU:CD2	2.19	0.52
42:e:120:SER:OG	42:e:124:LEU:N	2.42	0.52
42:e:437:GLY:HA2	42:e:463:SER:HA	1.91	0.52
42:f:301:GLU:OE2	42:f:301:GLU:N	2.29	0.52
44:h3:43:PRO:HB2	44:h3:45:PHE:HE1	1.73	0.52
45:i1:95:TRP:HA	45:i1:98:LYS:HE3	1.90	0.52
46:i2:1336:ILE:HA	46:i2:1343:LEU:HD21	1.90	0.52
1:0:36:ARG:HH21	9:IN:125:GLU:HB2	1.73	0.52
2:2:318:ARG:NH2	9:HJ:48:ASN:OD1	2.42	0.52
3:3:29:LYS:HB3	9:NL:78:SER:CA	2.38	0.52
7:A0:318:GLU:O	7:A0:321:THR:OG1	2.27	0.52
9:AF:304:ASP:HB3	9:AF:307:HIS:CD2	2.45	0.52
8:AG:116:ASP:N	8:AG:116:ASP:OD1	2.41	0.52
9:AH:102:ALA:HB2	9:AH:403:MET:HE3	1.90	0.52
8:AI:340:THR:HB	48:r:75:LEU:HD23	1.91	0.52
8:AM:16:ILE:HD13	8:AM:231:ILE:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BE:133:GLN:HB3	8:BE:252:LEU:HD12	1.92	0.52
8:BE:175:PRO:HD3	8:BE:390:ARG:NH2	2.24	0.52
9:BF:275:SER:O	9:BF:279:GLN:NE2	2.42	0.52
9:BH:285:THR:HG22	17:K:230:TRP:HZ3	1.74	0.52
8:BI:88:HIS:HE1	8:BI:90:GLU:HG2	1.75	0.52
8:BM:183:GLU:HA	8:BM:186:ASN:HD22	1.75	0.52
8:CC:223:THR:HG23	8:CC:225:THR:H	1.74	0.52
8:CG:188:ILE:O	8:CG:191:THR:OG1	2.27	0.52
9:CH:164:MET:HA	9:CH:164:MET:HE2	1.91	0.52
9:CL:10:GLY:O	9:CL:14:ASN:ND2	2.41	0.52
8:CO:108:TYR:HA	8:CO:112:LYS:HE3	1.92	0.52
8:CO:215:ARG:NH2	8:CO:299:ALA:O	2.43	0.52
14:D1:217:ASP:OD2	14:D2:365:ASN:ND2	2.43	0.52
14:D3:320:TYR:OH	38:Z1:134:ASP:OD1	2.27	0.52
14:D4:192:ARG:CA	28:Q4:28:ARG:HH22	2.23	0.52
14:D5:365:ASN:OD1	14:D5:366:VAL:HG13	2.10	0.52
8:DC:433:GLU:OE2	8:DC:433:GLU:N	2.42	0.52
8:DI:260:VAL:O	9:DJ:397:TRP:NE1	2.36	0.52
8:DO:254:GLU:HG2	9:DP:98:GLY:HA2	1.92	0.52
9:EB:406:MET:N	9:EB:406:MET:SD	2.81	0.52
8:EM:313:MET:N	8:EM:313:MET:SD	2.83	0.52
15:F:6:TYR:CD2	15:F:12:MET:HG2	2.44	0.52
8:FC:167:LEU:HD23	8:FC:202:PHE:HE2	1.75	0.52
8:GA:399:TYR:O	8:GA:402:ARG:NH1	2.43	0.52
9:GB:371:SER:O	9:GB:422:TYR:OH	2.27	0.52
8:GK:70:LEU:HB3	8:GK:98:ASP:HA	1.92	0.52
9:GL:135:LEU:HD11	9:GL:137:HIS:HB3	1.90	0.52
9:GL:184:ASN:OD1	9:GL:398:TYR:OH	2.28	0.52
9:HB:161:ASP:OD2	9:HB:162:ARG:NH1	2.40	0.52
8:HI:88:HIS:CE1	8:II:283:HIS:HB2	2.44	0.52
8:HO:324:VAL:HG22	8:HO:326:LYS:H	1.74	0.52
17:I:7:HIS:O	17:I:7:HIS:ND1	2.42	0.52
9:ID:309:ARG:NH2	9:ID:341:PHE:O	2.43	0.52
9:IF:221:THR:HG22	9:IF:223:GLY:H	1.75	0.52
9:IH:221:THR:OG1	9:IH:222:TYR:N	2.42	0.52
9:IH:358:PRO:HG2	9:IH:361:LEU:HB2	1.92	0.52
8:II:167:LEU:HD13	8:II:200:CYS:HB3	1.91	0.52
8:IK:399:TYR:OH	8:IK:415:GLU:OE2	2.28	0.52
9:IL:204:ASN:ND2	52:IL:502:GDP:O2'	2.42	0.52
9:IL:252:LYS:O	9:IL:256:ASN:ND2	2.42	0.52
9:IP:101:TRP:HB3	9:IP:398:TYR:HE2	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JB:11:GLN:HA	9:JB:14:ASN:HD22	1.74	0.52
9:JF:412:GLU:HA	9:JF:415:MET:SD	2.49	0.52
8:JG:155:GLU:HA	8:JG:197:HIS:CD2	2.44	0.52
8:JK:103:TYR:CE2	8:JK:148:GLY:HA2	2.44	0.52
9:JL:4:ILE:HD11	9:JL:240:LEU:HD21	1.91	0.52
9:JL:236:VAL:HG13	9:JL:237:THR:HG23	1.91	0.52
9:JL:257:MET:HB3	9:JL:266:PHE:CZ	2.45	0.52
9:JL:334:GLN:HE22	9:JL:347:ASN:HA	1.74	0.52
9:JP:10:GLY:O	9:JP:14:ASN:ND2	2.42	0.52
9:JP:31:ASP:OD1	9:JP:35:THR:N	2.39	0.52
8:KA:49:PHE:HB2	8:KA:53:PHE:HD2	1.75	0.52
8:KA:214:ARG:HD2	8:KA:215:ARG:HH21	1.75	0.52
8:KE:437:VAL:O	9:KF:391:ARG:NH2	2.42	0.52
8:KG:346:TRP:HZ2	8:KG:435:VAL:HG13	1.74	0.52
9:KH:248:ALA:HA	9:KH:252:LYS:HE3	1.91	0.52
9:KN:191:GLN:OE1	41:b5:249:ASN:ND2	2.42	0.52
8:LA:130:THR:OG1	8:LA:131:GLY:N	2.42	0.52
8:LC:312:TYR:HE2	8:LC:341:ILE:HD12	1.74	0.52
9:LD:55:THR:HG21	9:MD:284:LEU:HD12	1.91	0.52
8:LE:339:ARG:NH1	41:b2:380:GLY:O	2.43	0.52
9:LF:122:LYS:NZ	9:MF:291:GLN:HG3	2.25	0.52
9:LL:5:VAL:HB	9:LL:133:PHE:HD1	1.75	0.52
9:MB:362:LYS:HB3	23:P:364:ASN:HD22	1.75	0.52
8:MC:132:LEU:O	8:MC:164:LYS:NZ	2.41	0.52
9:MD:274:THR:OG1	9:MD:282:ARG:NH1	2.43	0.52
8:MM:328:VAL:HG11	8:MM:353:VAL:HG11	1.92	0.52
8:MO:297:GLU:O	8:MO:301:GLN:NE2	2.31	0.52
9:MP:8:GLN:HB3	9:MP:65:LEU:HA	1.90	0.52
15:N2:162:MET:HE2	15:N2:162:MET:HA	1.92	0.52
9:NB:267:MET:HE1	9:NB:373:ALA:HB3	1.91	0.52
9:ND:392:LYS:HE2	9:ND:395:LEU:HB3	1.91	0.52
8:NI:255:PHE:CE2	8:NI:378:LEU:HD13	2.45	0.52
24:O3:175:ILE:HD11	24:O3:180:GLU:HA	1.92	0.52
8:OC:35:GLN:HE21	8:OC:60:LYS:HE2	1.75	0.52
9:OD:120:VAL:HG11	9:OD:155:ILE:HD11	1.90	0.52
8:OG:108:TYR:HA	8:OG:112:LYS:HE3	1.92	0.52
9:OH:269:GLY:HA3	9:OH:367:PHE:HB3	1.91	0.52
27:P3:53:PHE:CG	25:T:327:LYS:HE3	2.44	0.52
9:PB:130:LEU:O	9:PB:162:ARG:NH1	2.39	0.52
8:PE:324:VAL:HG12	8:PE:326:LYS:H	1.75	0.52
8:PG:88:HIS:CE1	8:PG:90:GLU:HB3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PI:345:ASP:OD1	8:PI:345:ASP:N	2.42	0.52
8:PK:88:HIS:CD2	8:PK:90:GLU:HB3	2.45	0.52
28:Q1:142:ARG:HB3	28:Q1:142:ARG:CZ	2.40	0.52
9:QF:31:ASP:OD1	9:QF:35:THR:N	2.43	0.52
8:QG:107:HIS:HA	8:QG:152:LEU:HD23	1.92	0.52
9:QJ:86:ARG:HD3	9:QJ:88:ASP:H	1.75	0.52
8:QM:385:ALA:HA	8:QM:388:TRP:HD1	1.75	0.52
9:QP:130:LEU:HD21	9:QP:133:PHE:HE1	1.74	0.52
11:R2:321:ARG:HB3	11:R2:324:ARG:NH1	2.25	0.52
8:RI:6:SER:HB3	8:RI:8:HIS:CD2	2.44	0.52
9:RN:54:ALA:HA	9:SL:283:ALA:HB2	1.91	0.52
12:S5:293:THR:HG21	12:S6:413:ARG:HB3	1.90	0.52
12:S6:147:GLY:HA3	12:S6:272:GLN:NE2	2.24	0.52
12:S6:357:ALA:O	12:S6:361:ILE:HG13	2.10	0.52
9:SB:319:GLY:N	9:SB:354:CYS:O	2.34	0.52
9:SD:73:MET:HE3	9:SD:92:PHE:HB3	1.91	0.52
8:SE:56:THR:HA	8:TE:285:GLN:HB2	1.91	0.52
9:SF:5:VAL:HB	9:SF:133:PHE:HD1	1.74	0.52
9:SJ:88:ASP:OD2	9:TJ:281:TYR:OH	2.28	0.52
9:TB:371:SER:O	9:TB:422:TYR:OH	2.28	0.52
9:TD:317:PHE:HB3	9:TD:321:MET:HE2	1.92	0.52
8:TI:286:LEU:O	8:TI:373:ARG:NH1	2.42	0.52
9:TJ:156:ARG:HG3	9:TJ:195:ASN:HB3	1.91	0.52
9:TJ:309:ARG:NH2	9:TJ:339:SER:O	2.43	0.52
25:U:498:VAL:O	25:U:501:HIS:HB2	2.09	0.52
30:U2:198:ARG:NE	30:U2:201:ARG:HH21	2.08	0.52
30:U7:131:ILE:HD13	30:U8:423:ILE:HG12	1.91	0.52
8:UC:284:GLU:OE2	8:UC:284:GLU:N	2.42	0.52
8:UG:88:HIS:N	8:UG:91:GLN:OE1	2.42	0.52
8:UM:370:LYS:HE2	39:d:477:GLU:HG3	1.92	0.52
9:UN:310:TYR:N	9:UN:340:TYR:O	2.38	0.52
8:UO:188:ILE:O	8:UO:191:THR:OG1	2.27	0.52
30:V1:316:ARG:NE	30:V1:316:ARG:O	2.42	0.52
30:V3:416:LEU:O	30:V3:420:VAL:HG23	2.09	0.52
30:V7:363:LYS:HD2	30:V7:366:GLN:HE22	1.74	0.52
9:VB:156:ARG:HG3	9:VB:195:ASN:HB3	1.92	0.52
9:VD:247:ASN:O	9:VD:252:LYS:NZ	2.42	0.52
9:VD:286:VAL:HG11	9:VD:326:VAL:HG22	1.91	0.52
9:VH:73:MET:HE3	9:VH:92:PHE:HB3	1.90	0.52
8:VI:135:PHE:HD1	8:VI:166:LYS:HG2	1.74	0.52
9:VJ:207:LEU:HD12	9:VJ:225:LEU:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W0:310:MET:O	30:W0:314:SER:HB3	2.10	0.52
8:WA:317:MET:N	8:WA:317:MET:SD	2.82	0.52
9:WF:8:GLN:HE21	9:WF:14:ASN:HA	1.74	0.52
8:WG:31:GLN:HG2	8:WG:32:PRO:HD2	1.92	0.52
8:WI:311:LYS:HD3	8:WI:344:VAL:HA	1.90	0.52
8:WM:120:ASP:OD2	8:WM:121:ARG:NH2	2.43	0.52
9:WN:276:ARG:HG3	43:k:211:PHE:HE2	1.75	0.52
8:WO:317:MET:HE2	8:WO:319:TYR:CD2	2.45	0.52
9:WP:271:ALA:HB2	9:WP:293:MET:HE2	1.92	0.52
34:X8:203:TYR:CZ	34:X8:211:PRO:HB3	2.44	0.52
35:XG:29:VAL:HG22	35:XG:57:THR:HG23	1.90	0.52
37:YB:175:ARG:HA	37:YB:231:MET:CE	2.38	0.52
37:YF:203:GLU:N	37:YF:203:GLU:OE1	2.43	0.52
31:Z:159:VAL:HG22	31:Z:164:THR:HG22	1.91	0.52
39:a:102:LEU:HD11	43:j:250:ILE:HG23	1.92	0.52
39:a:193:ASP:HA	39:a:196:LYS:HE2	1.91	0.52
39:b:340:VAL:O	39:b:344:THR:HG23	2.09	0.52
41:b2:403:ARG:HH12	41:b3:243:GLN:HB2	1.74	0.52
41:b5:181:LEU:HB3	41:b5:460:VAL:HG22	1.91	0.52
42:e:487:ILE:HD12	42:e:497:GLN:HB3	1.92	0.52
45:i1:65:MET:HE2	45:i1:65:MET:HA	1.92	0.52
46:i3:1332:LEU:HD22	46:i3:1399:PHE:HZ	1.75	0.52
47:p:211:ASP:HA	47:p:214:LYS:HE3	1.90	0.52
3:4:397:ARG:O	3:4:401:VAL:HG23	2.10	0.52
4:6:226:GLY:O	30:V7:273:THR:HG21	2.08	0.52
7:A5:220:PHE:O	7:A5:224:ASN:ND2	2.43	0.52
8:AA:245:ASP:N	8:AA:245:ASP:OD1	2.41	0.52
9:AB:27:GLU:OE1	9:AB:241:ARG:NH2	2.43	0.52
9:AB:48:ASN:O	9:AB:62:ARG:NH2	2.42	0.52
9:AB:248:ALA:HA	9:AB:252:LYS:HD3	1.90	0.52
9:AH:317:PHE:HB3	9:AH:321:MET:HE1	1.91	0.52
8:AK:57:GLY:H	8:BK:285:GLN:NE2	2.07	0.52
11:B2:136:GLU:HB3	11:B2:261:THR:HG22	1.92	0.52
11:B4:391:MET:HA	11:B4:391:MET:HE2	1.91	0.52
9:BH:180:VAL:HG12	9:BH:394:PHE:HD2	1.75	0.52
9:BH:267:MET:HG2	9:BH:301:ALA:HB3	1.91	0.52
8:BM:316:CYS:HB3	8:BM:378:LEU:HB2	1.92	0.52
12:C1:81:LEU:HG	12:C1:83:PHE:CD1	2.44	0.52
9:CB:164:MET:HE2	9:CB:164:MET:HA	1.91	0.52
9:CJ:52:ASN:OD1	9:CJ:62:ARG:NH1	2.43	0.52
9:CP:322:SER:HA	17:O7:296:TYR:OH	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CQ:294:ALA:O	8:CQ:300:ASN:ND2	2.42	0.52
14:D0:80:GLU:HG3	14:D1:394:LYS:HZ1	1.75	0.52
14:D1:257:TRP:O	14:D1:261:ASN:ND2	2.43	0.52
8:DC:277:SER:HB2	40:a1:125:ARG:HD3	1.91	0.52
8:DE:11:GLN:HG3	8:DE:74:VAL:HG21	1.91	0.52
8:DI:260:VAL:HB	9:DJ:397:TRP:HZ2	1.75	0.52
9:DP:31:ASP:OD1	9:DP:35:THR:N	2.42	0.52
8:EA:206:ASN:HD21	50:EA:501:GTP:HN22	1.56	0.52
8:FG:345:ASP:N	8:FG:345:ASP:OD1	2.41	0.52
8:FI:209:ILE:HG21	8:FI:227:LEU:HG	1.92	0.52
9:FL:54:ALA:HB3	9:FL:58:LYS:HB3	1.92	0.52
9:FN:249:ASP:OD2	9:FN:251:ARG:N	2.43	0.52
8:FO:221:ARG:NH2	17:Z5:228:PHE:O	2.43	0.52
8:GE:28:HIS:HB2	8:GE:30:ILE:HD11	1.90	0.52
9:GF:54:ALA:HB3	9:GF:58:LYS:HB2	1.90	0.52
8:GK:168:GLU:HB3	8:GK:201:ALA:HA	1.90	0.52
8:GO:70:LEU:HB3	8:GO:98:ASP:HA	1.92	0.52
9:HF:238:THR:HG21	9:HF:318:ARG:HD3	1.91	0.52
9:HJ:207:LEU:HB3	9:HJ:225:LEU:HD23	1.91	0.52
8:HK:326:LYS:NZ	9:HL:218:THR:O	2.32	0.52
9:HL:324:LYS:HD3	8:HM:222:PRO:HD2	1.90	0.52
9:HN:313:VAL:HG13	9:HN:367:PHE:HE1	1.75	0.52
8:HO:388:TRP:HB2	8:HO:429:GLU:OE1	2.10	0.52
8:IA:6:SER:HB3	8:IA:8:HIS:CD2	2.45	0.52
9:IB:17:GLY:HA2	9:IB:20:PHE:HB3	1.91	0.52
8:IG:352:LYS:HZ3	9:IH:179:VAL:HG13	1.75	0.52
8:II:170:ALA:O	8:II:203:MET:HA	2.10	0.52
19:J4:235:LEU:HD11	19:J4:237:HIS:NE2	2.24	0.52
8:JC:408:TYR:HB3	8:JC:413:MET:SD	2.49	0.52
8:JI:117:LEU:HD12	8:JI:121:ARG:HH12	1.74	0.52
9:JL:322:SER:OG	9:JL:323:MET:SD	2.68	0.52
9:JP:135:LEU:HG	9:JP:137:HIS:CE1	2.45	0.52
9:JP:322:SER:OG	8:JQ:222:PRO:O	2.23	0.52
9:JP:382:SER:HB2	9:JP:415:MET:HE1	1.92	0.52
9:KH:55:THR:HB	9:LH:283:ALA:HA	1.92	0.52
9:KJ:293:MET:SD	9:KJ:367:PHE:HB3	2.49	0.52
9:KJ:406:MET:HB2	41:b4:131:ARG:HH22	1.75	0.52
9:KL:221:THR:N	9:KL:224:ASP:OD2	2.39	0.52
9:KN:138:SER:HA	9:KN:169:VAL:HB	1.92	0.52
9:LH:265:PHE:HB2	9:LH:374:ILE:HD12	1.92	0.52
8:LI:33:ASP:O	8:LI:60:LYS:NZ	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LK:172:TYR:HB3	8:LK:205:ASP:OD2	2.09	0.52
9:LL:8:GLN:HB3	9:LL:65:LEU:HA	1.92	0.52
8:LM:317:MET:HE3	8:LM:351:PHE:CD1	2.45	0.52
22:M3:172:LYS:HE3	22:M3:172:LYS:HA	1.91	0.52
8:MC:191:THR:HA	8:MC:194:THR:HG22	1.92	0.52
8:MK:192:HIS:NE2	8:MK:421:ALA:HA	2.25	0.52
9:NB:156:ARG:O	9:NB:156:ARG:NH1	2.39	0.52
9:NB:323:MET:HE2	8:NC:224:TYR:CD2	2.44	0.52
8:NG:263:PRO:HG3	9:NH:396:HIS:CD2	2.44	0.52
9:NH:259:PRO:HG3	9:NH:311:LEU:HD11	1.92	0.52
9:NL:16:ILE:HA	9:NL:226:ASN:HD21	1.75	0.52
8:NM:65:ALA:HB3	8:NM:87:PHE:HZ	1.74	0.52
9:NN:3:GLU:OE2	9:NN:62:ARG:NE	2.42	0.52
9:NN:198:GLU:N	9:NN:198:GLU:OE1	2.43	0.52
9:NP:52:ASN:HB3	9:NP:60:VAL:HG23	1.92	0.52
25:O5:371:LYS:HB2	40:a4:160:ALA:H	1.74	0.52
9:OD:294:PHE:HB2	36:Y4:163:ILE:HG22	1.92	0.52
9:OF:358:PRO:HG2	9:OF:361:LEU:HB3	1.90	0.52
9:OH:340:TYR:CD2	36:Y4:89:ILE:HG13	2.43	0.52
8:OI:331:ALA:O	8:OI:335:ILE:HG13	2.10	0.52
9:OJ:344:TRP:H	9:OJ:344:TRP:CD1	2.28	0.52
8:OK:101:ASN:HA	8:OK:144:GLY:H	1.74	0.52
9:OP:384:GLN:NE2	9:OP:388:MET:HE1	2.25	0.52
26:P1:78:THR:HB	26:P1:81:GLN:HG3	1.91	0.52
17:P8:180:HIS:O	30:W6:38:GLN:N	2.41	0.52
8:PG:116:ASP:N	8:PG:116:ASP:OD1	2.39	0.52
8:PG:326:LYS:HG3	9:PH:220:PRO:HG2	1.92	0.52
8:PM:68:VAL:HG12	8:PM:93:ILE:HB	1.92	0.52
9:PN:12:CYS:HA	52:PN:502:GDP:C5	2.44	0.52
8:QI:324:VAL:HG12	8:QI:326:LYS:H	1.75	0.52
9:QJ:72:THR:O	9:QJ:75:SER:OG	2.25	0.52
8:RM:107:HIS:HA	8:RM:152:LEU:HD23	1.90	0.52
12:S0:240:ALA:HA	12:S0:321:LEU:HD21	1.92	0.52
8:SI:141:PHE:CD1	8:SI:203:MET:HE1	2.45	0.52
9:TD:54:ALA:HA	9:UD:283:ALA:HB2	1.91	0.52
8:TE:377:MET:SD	8:TE:379:SER:N	2.82	0.52
8:TG:278:ALA:HB1	47:p:375:ARG:HD2	1.92	0.52
8:TK:165:SER:HB3	8:TK:256:GLN:HE22	1.75	0.52
9:TL:68:LEU:HB3	9:TL:96:GLY:HA2	1.91	0.52
9:TN:39:ASP:OD1	9:TN:40:SER:N	2.43	0.52
9:TN:173:PRO:HG3	9:TN:380:ARG:HE	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U6:176:ARG:O	30:U6:180:ALA:N	2.40	0.52
9:UB:344:TRP:H	9:UB:344:TRP:CD1	2.27	0.52
9:UF:48:ASN:O	9:UF:62:ARG:NH2	2.43	0.52
8:UO:132:LEU:O	8:UO:164:LYS:NZ	2.33	0.52
30:V3:390:LYS:O	30:V3:394:THR:OG1	2.22	0.52
30:V7:279:PHE:O	30:V7:281:HIS:N	2.42	0.52
9:VL:60:VAL:HG11	9:WL:281:TYR:HB3	1.92	0.52
9:VL:87:PRO:HD3	9:WL:281:TYR:CE2	2.44	0.52
9:VN:209:ASP:O	9:VN:213:ARG:HG2	2.10	0.52
30:W0:433:ARG:O	30:W0:437:THR:HG23	2.10	0.52
9:WF:10:GLY:O	9:WF:14:ASN:ND2	2.42	0.52
9:WH:79:GLY:O	42:f:206:ARG:NH1	2.42	0.52
9:WN:31:ASP:N	9:WN:37:HIS:HE1	2.08	0.52
31:X:245:ASP:N	31:X:245:ASP:OD1	2.43	0.52
35:XC:36:ARG:HH11	35:XC:45:LEU:HD21	1.74	0.52
36:Y4:41:HIS:HE1	36:Y4:45:LYS:HG3	1.75	0.52
37:YB:113:ARG:NH1	37:YB:113:ARG:O	2.43	0.52
37:YE:65:PHE:HB2	37:YE:67:ILE:HG12	1.90	0.52
42:e:549:ASN:ND2	42:e:590:ILE:O	2.31	0.52
46:i3:1340:TRP:CZ3	46:i3:1404:VAL:HG11	2.45	0.52
47:p:154:LEU:HA	47:p:157:ARG:HD2	1.92	0.52
47:p:296:LYS:HB3	47:p:300:ARG:NH2	2.24	0.52
8:AC:50:ASN:O	8:AC:64:ARG:NH1	2.42	0.52
8:AE:81:GLY:O	8:AE:84:ARG:NH1	2.43	0.52
8:AI:150:ALA:O	8:AI:154:MET:HG2	2.10	0.52
9:AJ:70:PRO:HG3	9:AJ:92:PHE:HE1	1.75	0.52
8:AK:217:LEU:HB3	8:AK:219:ILE:HG13	1.91	0.52
8:AM:132:LEU:HB3	8:AM:164:LYS:NZ	2.25	0.52
9:AN:262:ARG:HH21	9:AN:421:GLU:HG2	1.75	0.52
9:AP:299:MET:SD	9:AP:300:MET:N	2.83	0.52
9:BB:337:ASN:HB3	9:BB:340:TYR:HD2	1.75	0.52
12:C3:111:ASN:OD1	12:C3:114:ARG:NH2	2.40	0.52
12:C4:167:MET:HE2	12:C4:315:ARG:HG3	1.91	0.52
12:C4:252:HIS:CG	12:C4:256:LYS:HZ1	2.28	0.52
9:CF:128:ASP:OD2	9:CF:129:CYS:N	2.43	0.52
9:CF:390:ARG:HH21	9:CF:391:ARG:HE	1.58	0.52
9:CH:170:VAL:HG11	9:CH:377:LEU:HD21	1.91	0.52
8:CK:258:ASN:HD21	9:CL:178:THR:HG23	1.75	0.52
8:CM:264:ARG:HH12	8:CM:428:LEU:HA	1.74	0.52
14:D3:447:GLN:HB2	9:LJ:37:HIS:CD2	2.45	0.52
9:DB:132:GLY:HA2	9:DB:162:ARG:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DD:156:ARG:HG3	9:DD:195:ASN:HB3	1.91	0.52
9:DJ:41:ASP:HB2	17:L:54:SER:HA	1.92	0.52
9:ED:5:VAL:HG22	9:ED:62:ARG:HD2	1.92	0.52
9:EF:290:THR:HG21	9:EF:329:GLN:HB3	1.91	0.52
9:EH:358:PRO:HG2	9:EH:361:LEU:HB3	1.92	0.52
9:EN:213:ARG:HH12	9:EN:297:LYS:HB2	1.75	0.52
8:FA:53:PHE:HB3	8:FA:61:HIS:HB3	1.91	0.52
9:FB:181:GLU:CD	9:FB:182:PRO:HD3	2.34	0.52
8:FE:51:THR:HG21	8:FE:243:ARG:HG2	1.92	0.52
9:FH:372:THR:HG21	9:FH:426:GLN:HB2	1.91	0.52
8:FM:188:ILE:HD11	8:FM:422:ARG:HA	1.91	0.52
9:FN:198:GLU:HA	9:FN:264:HIS:HB2	1.91	0.52
9:FN:247:ASN:O	9:FN:252:LYS:NZ	2.41	0.52
8:GA:80:THR:O	8:GA:84:ARG:NH1	2.42	0.52
8:GK:311:LYS:H	8:GK:382:THR:HG22	1.74	0.52
9:GN:167:PHE:CZ	9:GN:233:MET:HG2	2.45	0.52
9:GN:324:LYS:HE3	8:GO:210:TYR:CD1	2.45	0.52
8:GO:191:THR:HA	8:GO:194:THR:HG22	1.91	0.52
9:HD:311:LEU:HD23	9:HD:312:THR:HG23	1.90	0.52
8:HE:123:ARG:NH1	36:Y1:215:LYS:HD3	2.25	0.52
9:HL:10:GLY:O	9:HL:14:ASN:ND2	2.42	0.52
9:HL:68:LEU:HB3	9:HL:96:GLY:HA2	1.90	0.52
9:IB:278:SER:HA	9:IB:281:TYR:CE2	2.45	0.52
8:IC:151:SER:HA	8:IC:193:THR:HG21	1.90	0.52
9:ID:111:GLU:N	9:ID:111:GLU:OE1	2.43	0.52
8:IE:8:HIS:HB2	8:IE:67:PHE:HD1	1.75	0.52
8:IE:388:TRP:HB2	8:IE:429:GLU:OE1	2.09	0.52
9:IF:225:LEU:HD12	9:IF:225:LEU:H	1.74	0.52
9:IF:297:LYS:HD2	36:Y1:205:ARG:HA	1.92	0.52
8:IG:7:ILE:HD13	8:IG:66:VAL:HB	1.91	0.52
8:IG:219:ILE:HB	8:IG:222:PRO:HG3	1.92	0.52
9:IL:327:ASP:HA	9:IL:330:MET:HB2	1.91	0.52
19:J2:87:LEU:O	8:OC:372:GLN:NE2	2.43	0.52
19:J2:247:HIS:O	19:J2:247:HIS:ND1	2.39	0.52
19:J4:275:LEU:HB3	19:J4:277:MET:HE3	1.90	0.52
9:JB:146:GLY:O	9:JB:149:THR:OG1	2.26	0.52
8:JE:7:ILE:HA	8:JE:66:VAL:HG23	1.91	0.52
8:JE:236:SER:OG	8:JE:243:ARG:NH2	2.43	0.52
9:JF:51:TYR:HB3	9:JF:59:TYR:HB3	1.92	0.52
8:JK:213:CYS:HA	8:JK:217:LEU:HD12	1.90	0.52
8:JM:181:VAL:HG23	8:JM:182:VAL:HG13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JN:38:GLY:HA3	9:JN:43:GLN:HE22	1.75	0.52
9:KF:206:ALA:O	9:KF:210:ILE:HG12	2.09	0.52
8:KG:328:VAL:HG11	8:KG:353:VAL:HG11	1.91	0.52
8:KK:175:PRO:HG2	8:KK:176:GLN:OE1	2.10	0.52
21:L1:79:PHE:CD1	9:VF:40:SER:HB3	2.45	0.52
21:L1:154:HIS:HB2	8:VG:47:ASP:HB3	1.90	0.52
9:LB:153:SER:HB3	9:LB:191:GLN:HE21	1.74	0.52
9:LB:382:SER:HB2	9:LB:415:MET:SD	2.50	0.52
9:LJ:139:LEU:HA	9:LJ:145:SER:HB3	1.91	0.52
8:LO:141:PHE:HB2	8:LO:173:PRO:HD3	1.92	0.52
22:M4:132:SER:OG	22:M4:133:ARG:N	2.42	0.52
8:MK:271:THR:HB	8:MK:377:MET:HB3	1.92	0.52
8:MO:188:ILE:O	8:MO:191:THR:OG1	2.27	0.52
8:NK:172:TYR:HD2	8:NK:205:ASP:HB3	1.75	0.52
9:NL:15:GLN:HB3	9:NL:19:LYS:NZ	2.25	0.52
8:NM:116:ASP:N	8:NM:116:ASP:OD1	2.40	0.52
8:NM:311:LYS:H	8:NM:382:THR:HG22	1.73	0.52
9:NN:113:VAL:HG11	9:NN:150:LEU:HD23	1.91	0.52
8:NO:227:LEU:HA	8:NO:230:LEU:HD12	1.90	0.52
24:O4:136:LYS:NZ	24:O4:142:ILE:HG13	2.25	0.52
8:OC:88:HIS:O	8:OC:91:GLN:HG2	2.10	0.52
9:OP:102:ALA:CB	9:OP:403:MET:HE2	2.40	0.52
9:PB:113:VAL:HG11	9:PB:150:LEU:HD23	1.91	0.52
9:PD:86:ARG:HG3	9:PD:88:ASP:H	1.75	0.52
9:PD:182:PRO:HG3	9:PD:384:GLN:CD	2.34	0.52
9:PF:189:VAL:HA	9:PF:192:LEU:HD23	1.91	0.52
9:PF:262:ARG:HH21	9:PF:418:LEU:HB2	1.75	0.52
9:PF:322:SER:OG	8:PG:222:PRO:O	2.17	0.52
8:PK:132:LEU:O	8:PK:164:LYS:NZ	2.36	0.52
8:QC:326:LYS:O	8:QC:330:ALA:N	2.32	0.52
8:QG:345:ASP:N	8:QG:345:ASP:OD1	2.43	0.52
8:QG:381:THR:HG23	8:QG:383:ALA:H	1.75	0.52
8:QI:88:HIS:ND1	8:RI:283:HIS:CD2	2.78	0.52
9:QJ:325:GLU:H	8:QK:221:ARG:NH1	2.07	0.52
9:QN:74:ASP:HA	9:QN:77:ARG:HE	1.73	0.52
9:RF:158:GLU:HG3	9:RF:159:TYR:CD1	2.45	0.52
9:RH:5:VAL:HG22	9:RH:62:ARG:HD2	1.91	0.52
12:S0:270:LYS:HA	12:S0:273:HIS:CE1	2.45	0.52
12:S2:185:LEU:HD21	12:S2:233:MET:HB3	1.92	0.52
8:SC:172:TYR:CD1	8:SC:203:MET:SD	3.03	0.52
8:SC:188:ILE:HG13	8:SC:395:PHE:CG	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SF:165:ASN:ND2	9:SF:250:LEU:HD21	2.24	0.52
8:SK:88:HIS:CE1	8:SK:90:GLU:HB3	2.45	0.52
8:SK:195:LEU:HD13	8:SK:428:LEU:HD11	1.91	0.52
8:SK:338:LYS:HE2	8:SK:340:THR:HB	1.91	0.52
14:T2:257:TRP:O	14:T2:261:ASN:ND2	2.43	0.52
14:T3:315:LEU:HD22	14:T3:419:LYS:HB3	1.91	0.52
14:T4:58:GLN:O	30:V5:380:ARG:NH2	2.43	0.52
14:T4:74:SER:O	14:T4:78:ARG:HG2	2.09	0.52
9:TD:36:TYR:CG	9:TD:44:LEU:HD22	2.44	0.52
9:TD:164:MET:HE3	9:TD:164:MET:HA	1.92	0.52
9:TH:134:GLN:HG3	9:TH:167:PHE:HE1	1.74	0.52
8:TI:138:PHE:HA	8:TI:169:PHE:O	2.10	0.52
9:TJ:324:LYS:HG3	8:TK:222:PRO:HD2	1.91	0.52
9:TL:74:ASP:OD2	9:TL:75:SER:N	2.42	0.52
25:U:242:VAL:HG12	25:U:267:TYR:HA	1.91	0.52
30:U3:392:ALA:HA	30:U3:395:MET:HG3	1.92	0.52
9:UB:363:MET:HE3	9:UB:364:SER:N	2.25	0.52
8:UC:377:MET:SD	8:UC:379:SER:OG	2.60	0.52
9:UD:150:LEU:HG	9:UD:154:LYS:HE2	1.91	0.52
9:UD:371:SER:O	9:UD:422:TYR:OH	2.25	0.52
9:UJ:22:GLU:OE1	9:UJ:22:GLU:N	2.35	0.52
30:V0:412:PRO:HG3	30:V1:142:LEU:HA	1.91	0.52
30:V1:316:ARG:NH2	30:V1:320:GLU:HG3	2.25	0.52
30:V2:406:GLU:HA	30:V3:296:TRP:HH2	1.72	0.52
30:V6:329:SER:HA	30:V6:332:MET:SD	2.50	0.52
9:VH:119:VAL:HA	9:VH:122:LYS:HD3	1.90	0.52
9:VH:146:GLY:O	9:VH:149:THR:OG1	2.24	0.52
9:VJ:8:GLN:HG2	9:VJ:14:ASN:HA	1.91	0.52
9:VJ:118:ASP:OD1	9:VJ:121:ARG:NH2	2.40	0.52
31:W:671:ASP:OD1	31:W:672:ASP:N	2.43	0.52
8:WA:127:ASP:OD2	37:YA:60:TYR:OH	2.26	0.52
8:WA:203:MET:H	8:WA:203:MET:HE3	1.73	0.52
9:WB:1:MET:SD	9:WB:2:ARG:N	2.82	0.52
9:WB:251:ARG:HD2	9:WB:255:VAL:HG23	1.91	0.52
8:WC:167:LEU:HD23	8:WC:202:PHE:HE2	1.75	0.52
9:WH:289:LEU:HD11	9:WH:363:MET:HG3	1.92	0.52
8:WI:151:SER:HA	8:WI:193:THR:HG21	1.91	0.52
8:WM:278:ALA:HB3	42:g:458:LYS:HZ3	1.74	0.52
9:WN:204:ASN:O	9:WN:208:TYR:N	2.36	0.52
9:WP:267:MET:N	9:WP:267:MET:SD	2.83	0.52
9:WP:316:VAL:HG22	9:WP:352:ALA:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XA:35:LYS:NZ	35:XA:48:GLU:OE1	2.41	0.52
36:Y4:190:VAL:HG13	36:Y4:194:LYS:NZ	2.23	0.52
37:YB:106:PRO:HD2	37:YB:107:TYR:N	2.24	0.52
37:YF:193:ASP:OD1	37:YF:193:ASP:N	2.42	0.52
41:b4:198:LEU:HG	41:b4:332:VAL:HG22	1.92	0.52
41:b5:152:ARG:HH12	41:b5:156:ARG:CZ	2.23	0.52
42:e:475:GLU:OE2	42:e:496:ASN:ND2	2.43	0.52
42:g:497:GLN:NE2	42:g:498:MET:O	2.40	0.52
4:j1:341:ARG:HD2	4:j1:377:ASP:HA	1.91	0.52
43:k:236:GLN:N	43:k:236:GLN:OE1	2.42	0.52
47:p:483:TYR:O	47:p:483:TYR:HD2	1.92	0.52
2:1:762:ASN:HB2	9:IH:218:THR:OG1	2.10	0.52
3:4:393:VAL:HG23	8:GO:370:LYS:HG3	1.90	0.52
4:5:120:ASP:N	4:5:120:ASP:OD1	2.43	0.52
4:5:140:THR:OG1	4:5:181:GLU:OE1	2.27	0.52
7:A0:337:LEU:O	7:A0:341:ILE:HG23	2.09	0.52
9:AD:27:GLU:O	9:AD:43:GLN:NE2	2.43	0.52
9:AD:150:LEU:HG	9:AD:154:LYS:HE2	1.92	0.52
9:AD:213:ARG:HG2	9:AD:297:LYS:HZ1	1.75	0.52
8:AE:279:GLU:OE2	8:AE:279:GLU:N	2.36	0.52
8:AK:1:MET:HE1	9:AL:70:PRO:HG2	1.92	0.52
9:AL:322:SER:O	8:AM:221:ARG:NH1	2.42	0.52
9:AN:406:MET:N	9:AN:406:MET:SD	2.83	0.52
8:AO:157:LEU:HB3	8:AO:166:LYS:NZ	2.25	0.52
11:B4:41:GLU:OE1	11:B5:355:LYS:NZ	2.39	0.52
8:BM:324:VAL:HG11	9:BN:219:THR:HG23	1.92	0.52
10:C:271:ILE:O	10:C:275:ASN:ND2	2.37	0.52
9:CB:150:LEU:HG	9:CB:154:LYS:HE2	1.91	0.52
8:CE:209:ILE:HG13	8:CE:302:MET:HG2	1.92	0.52
9:CN:1:MET:HE2	8:CO:72:PRO:HG3	1.92	0.52
14:D4:218:LYS:HE3	14:D4:257:TRP:HE1	1.75	0.52
9:DB:173:PRO:HG3	9:DB:380:ARG:HD3	1.91	0.52
9:DB:318:ARG:HD3	9:DB:358:PRO:HD3	1.92	0.52
8:DC:27:GLU:OE2	8:DC:320:ARG:NH2	2.41	0.52
9:DD:344:TRP:H	9:DD:344:TRP:CD1	2.27	0.52
9:DD:403:MET:N	9:DD:403:MET:SD	2.82	0.52
8:EC:2:ARG:HB3	8:EC:242:LEU:HD23	1.90	0.52
9:EL:330:MET:SD	9:EL:349:VAL:HB	2.50	0.52
15:F:123:MET:HG2	15:F:125:ARG:H	1.74	0.52
8:FA:68:VAL:HG11	8:FA:118:VAL:HG22	1.90	0.52
8:FC:114:ILE:HG22	36:Y3:43:PRO:HG3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FD:8:GLN:NE2	9:FD:13:GLY:O	2.34	0.52
8:FI:399:TYR:O	8:FI:402:ARG:NH1	2.35	0.52
9:FL:263:LEU:HD23	9:FL:422:TYR:CE2	2.45	0.52
8:FO:345:ASP:OD1	8:FO:345:ASP:N	2.43	0.52
8:GA:297:GLU:O	8:GA:301:GLN:NE2	2.33	0.52
8:GC:203:MET:SD	8:GC:203:MET:N	2.69	0.52
8:GG:120:ASP:OD1	8:GG:123:ARG:NE	2.40	0.52
8:GK:155:GLU:OE1	8:GK:197:HIS:ND1	2.43	0.52
9:GL:251:ARG:NH2	8:GM:97:GLU:OE2	2.43	0.52
9:HB:42:LEU:HD21	9:HB:356:ILE:CD1	2.39	0.52
9:HF:265:PHE:HB2	9:HF:374:ILE:HD12	1.92	0.52
8:HG:186:ASN:O	8:HG:190:THR:OG1	2.22	0.52
9:HL:144:GLY:N	52:HL:502:GDP:O1B	2.28	0.52
9:HN:161:ASP:O	9:HN:251:ARG:NH2	2.42	0.52
17:I:262:GLY:HA3	31:W:97:PHE:HE1	1.75	0.52
8:IC:372:GLN:OE1	8:IC:373:ARG:NH1	2.43	0.52
8:IE:317:MET:HB2	8:IE:353:VAL:HG22	1.92	0.52
9:IH:85:PHE:O	8:JI:283:HIS:NE2	2.43	0.52
9:IJ:344:TRP:CD1	8:IK:401:LYS:HZ2	2.28	0.52
8:IK:90:GLU:OE2	8:IK:121:ARG:NH1	2.43	0.52
9:IL:267:MET:HE1	9:IL:371:SER:HB3	1.91	0.52
9:IN:35:THR:HG22	9:IN:58:LYS:HE3	1.92	0.52
9:IN:324:LYS:HZ1	8:IO:214:ARG:HD2	1.75	0.52
8:IO:353:VAL:N	9:IP:177:ASP:OD1	2.40	0.52
9:IP:66:VAL:HG23	9:IP:91:VAL:HG13	1.92	0.52
9:JH:234:SER:OG	9:JH:241:ARG:NH2	2.43	0.52
17:K:209:HIS:CE1	30:W5:142:LEU:HB3	2.45	0.52
8:KA:6:SER:HB3	8:KA:8:HIS:CD2	2.45	0.52
8:KA:154:MET:O	8:KA:158:SER:OG	2.23	0.52
8:KC:151:SER:HA	8:KC:193:THR:HG21	1.90	0.52
9:KD:164:MET:HA	9:KD:164:MET:HE2	1.91	0.52
8:KK:206:ASN:OD1	50:KK:501:GTP:N2	2.43	0.52
9:KL:158:GLU:HG3	9:KL:159:TYR:CD2	2.45	0.52
8:KO:372:GLN:HG2	8:KO:373:ARG:HG2	1.92	0.52
8:LA:49:PHE:HD2	8:LA:53:PHE:HB2	1.74	0.52
8:LA:91:GLN:HA	8:LA:121:ARG:HD3	1.91	0.52
8:LA:349:THR:O	8:LA:349:THR:OG1	2.28	0.52
8:LK:192:HIS:NE2	8:LK:420:GLU:OE1	2.43	0.52
9:LP:210:ILE:O	9:LP:214:THR:OG1	2.24	0.52
9:MJ:396:HIS:HA	9:MJ:399:THR:HG22	1.92	0.52
8:MM:96:LYS:NZ	33:X5:7:LEU:HD12	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MP:289:LEU:O	9:MP:293:MET:HG3	2.10	0.52
9:NB:54:ALA:HA	9:OB:283:ALA:HB2	1.92	0.52
9:NB:113:VAL:HG11	9:NB:150:LEU:HD23	1.92	0.52
8:NC:217:LEU:HD11	8:NC:275:VAL:HB	1.92	0.52
9:NH:117:LEU:HB3	9:NH:121:ARG:HH12	1.74	0.52
8:NM:194:THR:O	8:NM:266:HIS:NE2	2.40	0.52
9:NN:270:PHE:CE1	9:NN:272:PRO:HD2	2.45	0.52
9:NP:131:GLN:O	9:NP:162:ARG:NH2	2.43	0.52
25:O5:511:TYR:HA	25:O5:514:LYS:HE2	1.92	0.52
8:OA:31:GLN:HG2	8:OA:37:PRO:HD3	1.92	0.52
9:OB:150:LEU:HG	9:OB:154:LYS:HE2	1.91	0.52
9:OL:244:GLY:N	9:OL:247:ASN:OD1	2.38	0.52
8:OO:119:LEU:HA	8:OO:122:ILE:HG22	1.91	0.52
8:OO:206:ASN:OD1	50:OO:501:GTP:N2	2.43	0.52
9:OP:263:LEU:HD22	9:OP:370:ASN:HD21	1.75	0.52
8:PC:395:PHE:HA	8:PC:398:MET:SD	2.50	0.52
9:PD:321:MET:HE2	8:PE:221:ARG:HH21	1.75	0.52
8:PE:184:PRO:HB3	8:PE:394:LYS:NZ	2.25	0.52
9:PF:234:SER:O	9:PF:238:THR:OG1	2.28	0.52
9:PH:31:ASP:OD1	9:PH:35:THR:N	2.43	0.52
8:PK:1:MET:HE1	8:PK:51:THR:HG23	1.91	0.52
8:PK:279:GLU:HA	8:PK:282:TYR:CD2	2.45	0.52
28:Q2:191:PRO:HD2	11:R2:404:PHE:CE1	2.44	0.52
9:QD:7:LEU:N	9:QD:134:GLN:O	2.43	0.52
9:QF:60:VAL:HG11	9:RF:281:TYR:HB3	1.92	0.52
8:QG:70:LEU:HD23	8:QG:145:THR:HG23	1.91	0.52
8:QG:286:LEU:HD12	8:QG:287:SER:H	1.73	0.52
9:QH:69:GLU:OE1	9:QH:72:THR:OG1	2.27	0.52
9:QH:274:THR:HB	9:QH:278:SER:HB2	1.92	0.52
8:QI:6:SER:HB3	8:QI:8:HIS:CD2	2.45	0.52
8:QM:108:TYR:HA	8:QM:112:LYS:HE3	1.92	0.52
9:QP:8:GLN:HB3	9:QP:65:LEU:HA	1.91	0.52
8:RE:9:VAL:HB	8:RE:139:HIS:HB3	1.90	0.52
8:RK:50:ASN:O	8:RK:64:ARG:NH1	2.43	0.52
8:RK:133:GLN:HB3	8:RK:252:LEU:HD23	1.92	0.52
12:S2:198:CYS:SG	12:S2:472:LYS:NZ	2.67	0.52
12:S4:240:ALA:HA	12:S4:321:LEU:HD21	1.91	0.52
12:S8:118:GLU:HA	12:S8:121:ARG:NE	2.24	0.52
8:SC:68:VAL:HG12	8:SC:93:ILE:HB	1.92	0.52
8:SC:286:LEU:HG	8:SC:373:ARG:HH11	1.75	0.52
9:SD:1:MET:N	9:SD:3:GLU:OE1	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SG:425:LEU:HA	8:SG:428:LEU:HD23	1.92	0.52
8:SI:118:VAL:O	8:SI:122:ILE:HG12	2.10	0.52
9:TB:259:PRO:HD2	9:TB:263:LEU:HD11	1.90	0.52
9:TB:274:THR:HB	9:TB:278:SER:HB2	1.90	0.52
8:TM:107:HIS:HA	8:TM:152:LEU:HD23	1.92	0.52
8:TM:255:PHE:O	8:TM:259:LEU:HB2	2.10	0.52
9:TN:302:ALA:HB3	9:TN:377:LEU:HD11	1.92	0.52
30:U2:244:ARG:HG3	30:U7:196:TYR:HE2	1.75	0.52
30:U3:79:LEU:HD13	30:U3:82:LEU:HD13	1.91	0.52
8:UE:285:GLN:HE22	8:UE:287:SER:HB3	1.74	0.52
8:UG:24:TYR:HA	8:UG:27:GLU:HB2	1.91	0.52
8:UG:213:CYS:HA	8:UG:217:LEU:HD23	1.91	0.52
9:VB:31:ASP:HB3	9:VB:37:HIS:CD2	2.45	0.52
8:VG:56:THR:HG23	8:VG:58:ALA:H	1.75	0.52
9:VJ:19:LYS:N	9:VJ:19:LYS:HD3	2.24	0.52
8:VK:399:TYR:O	8:VK:402:ARG:NH1	2.42	0.52
8:VO:36:MET:HE3	8:VO:61:HIS:CE1	2.45	0.52
8:WC:164:LYS:HE2	37:YB:71:HIS:CG	2.45	0.52
9:WD:54:ALA:HB3	9:WD:58:LYS:HB2	1.91	0.52
8:WG:174:ALA:HB1	8:WG:207:GLU:HB2	1.91	0.52
8:WI:439:SER:OG	9:WJ:390:ARG:NH2	2.42	0.52
9:WN:362:LYS:HG3	9:WN:363:MET:HG3	1.92	0.52
34:X8:76:PHE:HB2	34:X8:89:VAL:HG12	1.91	0.52
35:XB:172:TYR:HB3	35:XB:176:GLU:HB2	1.91	0.52
35:XF:69:LEU:HB3	35:XF:71:ILE:HG12	1.91	0.52
31:Y:358:GLU:OE1	31:Y:358:GLU:N	2.30	0.52
31:Z:86:GLU:N	31:Z:86:GLU:OE2	2.41	0.52
39:a:345:LYS:CG	39:a:346:LYS:N	2.73	0.52
40:a4:9:ARG:HD3	40:a4:39:VAL:HG21	1.92	0.52
41:b1:403:ARG:HD3	41:b2:243:GLN:HG2	1.90	0.52
41:b3:144:GLN:HB2	41:b3:234:LEU:HD22	1.92	0.52
42:e:30:LEU:HD11	42:e:39:LEU:HD22	1.91	0.52
42:g:90:LYS:HA	42:g:111:LYS:HA	1.92	0.52
46:i3:1328:ILE:O	46:i3:1332:LEU:HG	2.10	0.52
46:i4:1434:PRO:HA	46:i4:1437:TYR:CD2	2.45	0.52
49:y:71:ASN:HB2	49:y:74:TRP:CD1	2.45	0.52
3:3:300:GLN:O	3:3:304:ARG:HG2	2.10	0.52
3:3:367:ILE:O	3:3:371:LYS:HG3	2.10	0.52
4:6:287:MET:HE3	4:6:287:MET:HA	1.91	0.52
8:AA:240:ALA:HA	8:AA:243:ARG:HD3	1.92	0.52
8:AA:283:HIS:HA	8:MA:62:VAL:HG11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AD:8:GLN:OE1	9:AD:65:LEU:HG	2.09	0.52
8:AG:180:ALA:HB3	8:AG:183:GLU:HB3	1.92	0.52
8:AK:313:MET:HE3	8:AK:382:THR:HB	1.92	0.52
11:B1:35:SER:OG	11:B2:289:GLU:OE2	2.25	0.52
11:B4:202:LYS:CB	11:B4:205:PRO:HD3	2.36	0.52
9:BB:323:MET:HG3	8:BC:224:TYR:CD1	2.45	0.52
9:BF:213:ARG:HE	9:BF:297:LYS:HZ1	1.57	0.52
9:BH:325:GLU:HG3	8:BI:221:ARG:HG2	1.92	0.52
9:BJ:207:LEU:HG	9:BJ:228:LEU:HD22	1.91	0.52
8:BK:88:HIS:CE1	8:BK:90:GLU:HB3	2.45	0.52
12:C0:131:LYS:NZ	12:C1:430:THR:HA	2.25	0.52
12:C5:403:ARG:NH1	12:C5:414:ASP:OD1	2.43	0.52
9:CB:343:GLU:N	9:CB:343:GLU:OE2	2.43	0.52
9:CD:320:ARG:NH2	27:P4:18:GLN:HB2	2.25	0.52
8:CM:21:TRP:HA	8:CM:24:TYR:CD2	2.45	0.52
9:CP:305:PRO:HA	9:CP:373:ALA:HB2	1.92	0.52
8:CQ:345:ASP:OD1	8:CQ:345:ASP:N	2.41	0.52
8:DC:345:ASP:OD1	8:DC:345:ASP:N	2.41	0.52
8:DC:399:TYR:O	8:DC:402:ARG:NE	2.43	0.52
8:EA:2:ARG:HB3	8:EA:242:LEU:HD23	1.92	0.52
8:EE:254:GLU:HG2	9:EF:98:GLY:HA2	1.92	0.52
9:EF:7:LEU:N	9:EF:134:GLN:O	2.38	0.52
8:EG:338:LYS:HZ2	8:EG:340:THR:H	1.58	0.52
9:EH:190:HIS:ND1	9:EH:414:ASN:OD1	2.40	0.52
8:FA:395:PHE:CE1	8:FA:418:PHE:HE1	2.28	0.52
8:FE:203:MET:HE1	8:FE:267:PHE:HB3	1.91	0.52
8:FE:317:MET:HE3	8:FE:318:LEU:N	2.24	0.52
8:FG:262:TYR:OH	9:FH:391:ARG:O	2.28	0.52
8:FK:201:ALA:O	8:FK:268:PRO:HD2	2.10	0.52
8:FO:338:LYS:HE2	8:FO:340:THR:HB	1.92	0.52
8:FO:386:GLU:OE1	8:FO:390:ARG:NH2	2.43	0.52
9:GD:73:MET:HB3	9:GD:90:PHE:HE2	1.74	0.52
8:GK:319:TYR:HB2	8:GK:355:ILE:HG22	1.91	0.52
8:GM:56:THR:N	8:GM:60:LYS:O	2.42	0.52
8:GM:312:TYR:HE2	8:GM:341:ILE:HD12	1.75	0.52
9:GN:257:MET:SD	9:GN:312:THR:OG1	2.63	0.52
9:GN:401:GLU:OE1	9:GN:403:MET:N	2.43	0.52
8:HC:158:SER:HA	8:HC:166:LYS:HZ1	1.74	0.52
9:HD:113:VAL:HG21	9:HD:154:LYS:HE3	1.91	0.52
8:HE:130:THR:OG1	8:HE:131:GLY:N	2.43	0.52
8:HK:100:ALA:O	8:HK:102:ASN:ND2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HK:279:GLU:H	8:HK:279:GLU:CD	2.17	0.52
9:HL:165:ASN:HD22	9:HL:167:PHE:HE1	1.56	0.52
8:HM:172:TYR:HB2	8:HM:203:MET:HB2	1.91	0.52
8:HM:292:THR:HG21	8:HM:331:ALA:HB1	1.90	0.52
9:IB:4:ILE:HG23	9:IB:134:GLN:OE1	2.10	0.52
9:IB:198:GLU:HB2	9:IB:266:PHE:HE2	1.75	0.52
9:IB:293:MET:SD	9:IB:367:PHE:HB2	2.50	0.52
9:ID:135:LEU:HG	9:ID:137:HIS:HD2	1.75	0.52
9:ID:324:LYS:HD3	8:IE:222:PRO:HD2	1.92	0.52
8:IK:121:ARG:HH21	8:IK:124:LYS:HB2	1.74	0.52
9:IL:16:ILE:HA	9:IL:226:ASN:HB3	1.92	0.52
9:IN:211:CYS:HB3	9:IN:217:LEU:HD23	1.91	0.52
9:IP:113:VAL:HG11	9:IP:150:LEU:HD23	1.90	0.52
17:J:281:LEU:H	17:J:304:THR:HG21	1.75	0.52
19:J2:141:TYR:HE2	19:J2:145:ASN:HD22	1.58	0.52
8:JC:437:VAL:O	9:JD:391:ARG:NH2	2.31	0.52
9:JD:10:GLY:O	9:JD:14:ASN:ND2	2.43	0.52
9:JL:324:LYS:H	8:JM:221:ARG:NH2	2.08	0.52
8:JO:52:PHE:CE1	8:JO:243:ARG:HD3	2.45	0.52
8:JQ:191:THR:O	8:JQ:195:LEU:HB2	2.10	0.52
8:KA:345:ASP:N	8:KA:345:ASP:OD1	2.37	0.52
8:KE:203:MET:HE1	8:KE:267:PHE:HB3	1.92	0.52
8:KG:388:TRP:HB3	8:KG:425:LEU:HD11	1.92	0.52
9:KH:1:MET:HE3	8:KI:72:PRO:HG3	1.90	0.52
8:KI:166:LYS:N	8:KI:199:ASP:OD2	2.41	0.52
9:KN:278:SER:HB3	9:KN:282:ARG:HH12	1.75	0.52
17:L:16:TYR:HB2	17:L:39:THR:HG21	1.90	0.52
9:LD:10:GLY:O	9:LD:14:ASN:ND2	2.43	0.52
9:LD:346:PRO:HD2	8:LE:398:MET:HE3	1.91	0.52
22:M1:142:LYS:NZ	25:T:156:LYS:O	2.43	0.52
9:MD:240:LEU:HD13	9:MD:249:ASP:HB2	1.92	0.52
8:NA:315:CYS:HB3	8:NA:377:MET:HE1	1.91	0.52
9:NB:309:ARG:HG3	9:NB:426:GLN:HG3	1.92	0.52
8:NG:174:ALA:HB1	8:NG:207:GLU:HB2	1.91	0.52
8:NI:141:PHE:HB2	8:NI:173:PRO:HD3	1.92	0.52
9:NL:257:MET:SD	9:NL:314:ALA:HB2	2.49	0.52
8:NM:180:ALA:HB3	8:NM:183:GLU:HB2	1.92	0.52
8:NM:413:MET:HE1	8:NM:417:GLU:HB2	1.91	0.52
8:NO:53:PHE:O	8:NO:64:ARG:NH1	2.43	0.52
8:NO:439:SER:OG	9:NP:391:ARG:NH2	2.43	0.52
24:O4:172:ILE:HD13	24:O4:183:ALA:HB1	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:O6:42:ARG:HH22	25:O6:55:ASN:HB2	1.74	0.52
8:OA:254:GLU:N	8:OA:254:GLU:OE1	2.42	0.52
9:OD:361:LEU:HD12	9:OD:362:LYS:H	1.75	0.52
8:OE:2:ARG:CZ	8:OE:242:LEU:HA	2.40	0.52
8:OG:320:ARG:HD3	8:OG:360:PRO:HG3	1.92	0.52
8:OK:200:CYS:HA	8:OK:266:HIS:HB2	1.92	0.52
8:OK:320:ARG:HD3	8:OK:360:PRO:HG3	1.92	0.52
9:OL:324:LYS:HD3	8:OM:210:TYR:CE2	2.45	0.52
8:PI:191:THR:HB	8:PI:425:LEU:HD21	1.92	0.52
8:QE:88:HIS:HB2	8:RE:283:HIS:HD2	1.74	0.52
9:QF:315:ALA:HB3	9:QF:351:THR:HG22	1.92	0.52
8:QI:185:TYR:O	8:QI:189:LEU:HG	2.10	0.52
9:QJ:54:ALA:HA	9:RJ:283:ALA:HB2	1.92	0.52
9:QN:113:VAL:HG13	9:QN:147:MET:HE1	1.92	0.52
11:R5:15:SER:O	11:R5:19:THR:HG23	2.09	0.52
8:RC:317:MET:HE3	8:RC:318:LEU:N	2.24	0.52
8:RK:132:LEU:O	8:RK:164:LYS:NZ	2.36	0.52
8:RM:298:PRO:HA	8:RM:301:GLN:HB2	1.91	0.52
8:RO:317:MET:SD	8:RO:377:MET:HE1	2.50	0.52
12:S1:379:ILE:HD12	12:S1:379:ILE:H	1.74	0.52
12:S2:280:GLY:HA2	14:T2:41:LEU:HD12	1.92	0.52
12:S8:121:ARG:HD2	12:S9:374:GLN:CD	2.35	0.52
9:SF:51:TYR:O	9:SF:62:ARG:NH2	2.43	0.52
9:SF:54:ALA:HA	9:TF:283:ALA:HB2	1.91	0.52
9:SF:266:PHE:C	9:SF:267:MET:HE2	2.35	0.52
8:SG:137:ILE:HG21	8:SG:154:MET:HE1	1.90	0.52
14:T0:81:SER:HB2	14:T1:339:LEU:HD11	1.92	0.52
9:TF:371:SER:O	9:TF:422:TYR:OH	2.24	0.52
8:TG:286:LEU:O	8:TG:373:ARG:NH1	2.43	0.52
9:TH:26:ASP:O	9:TH:359:ARG:NH1	2.42	0.52
9:TJ:133:PHE:H	9:TJ:164:MET:HE1	1.75	0.52
8:TK:251:ASP:OD2	8:TK:253:THR:N	2.42	0.52
30:U4:239:GLN:NE2	30:U4:243:ASN:OD1	2.43	0.52
30:U7:127:LYS:NZ	30:U8:430:LEU:HD21	2.24	0.52
9:UH:237:THR:HG22	9:UH:250:LEU:HD21	1.92	0.52
9:UL:156:ARG:NH1	9:UL:197:ASP:OD1	2.36	0.52
9:UL:204:ASN:O	9:UL:208:TYR:N	2.33	0.52
30:V1:407:LEU:HD12	30:V2:289:THR:HA	1.92	0.52
30:V6:201:ARG:HG3	30:V6:464:ILE:HD12	1.92	0.52
9:VB:130:LEU:O	9:VB:162:ARG:NH2	2.43	0.52
9:VF:372:THR:HA	9:VF:422:TYR:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VJ:333:VAL:HA	9:VJ:336:LYS:HE2	1.92	0.52
8:VM:73:THR:O	8:VM:77:GLU:HG3	2.09	0.52
8:WA:230:LEU:O	8:WA:234:ILE:HG12	2.10	0.52
8:WC:326:LYS:NZ	9:WD:220:PRO:HD2	2.25	0.52
9:WJ:69:GLU:HG2	9:WJ:71:GLY:H	1.75	0.52
9:WL:54:ALA:HB3	9:WL:58:LYS:HB2	1.92	0.52
37:YA:122:GLY:O	37:YA:125:LYS:HE2	2.10	0.52
31:Z:507:LEU:HD12	31:Z:522:LEU:HD11	1.92	0.52
39:a:188:GLU:O	39:a:192:LYS:HG3	2.10	0.52
39:b:477:GLU:OE1	39:b:480:ARG:NH1	2.43	0.52
42:f:221:TYR:CE1	42:f:264:LEU:HD21	2.44	0.52
42:g:509:CYS:HB2	42:g:518:ILE:HG12	1.91	0.52
2:1:563:HIS:O	2:1:567:VAL:HG22	2.10	0.51
5:8:30:LEU:HA	9:IF:1:MET:HE3	1.91	0.51
7:A1:244:GLN:HG3	11:B1:245:LEU:HD13	1.92	0.51
7:A4:316:ARG:HG3	7:A5:191:LEU:HD11	1.92	0.51
9:AD:46:ARG:HH21	8:AE:72:PRO:HG2	1.74	0.51
8:AE:320:ARG:O	8:AE:373:ARG:HA	2.10	0.51
9:AJ:67:ASP:O	9:AJ:92:PHE:HA	2.10	0.51
9:AN:154:LYS:O	9:AN:157:GLU:HG3	2.10	0.51
8:AO:368:LEU:H	8:AO:368:LEU:HD23	1.75	0.51
9:BF:179:VAL:HG23	9:BF:180:VAL:HG13	1.90	0.51
8:BG:46:ASP:OD2	8:BG:48:SER:OG	2.27	0.51
9:BJ:359:ARG:NH1	17:L:268:THR:OG1	2.43	0.51
8:BM:90:GLU:CG	8:BM:121:ARG:HE	2.21	0.51
12:C1:191:PRO:HA	12:C1:194:VAL:HG12	1.91	0.51
9:CF:232:THR:HG21	9:CF:268:PRO:HB2	1.93	0.51
8:CG:101:ASN:HD21	8:CG:180:ALA:HB1	1.76	0.51
9:CH:239:CYS:SG	9:CH:248:ALA:N	2.81	0.51
9:CH:248:ALA:HA	9:CH:252:LYS:HD3	1.91	0.51
8:CI:70:LEU:HB3	8:CI:98:ASP:HA	1.92	0.51
9:CL:136:THR:HG22	9:CL:167:PHE:HB2	1.91	0.51
9:CN:113:VAL:HG11	9:CN:150:LEU:HD23	1.92	0.51
9:CP:173:PRO:HG2	9:CP:174:LYS:HD3	1.91	0.51
9:CP:311:LEU:HG	9:CP:312:THR:HG23	1.92	0.51
14:D3:317:LYS:HB3	38:Z1:138:PHE:HZ	1.74	0.51
8:DC:2:ARG:HB2	8:DC:242:LEU:HD21	1.92	0.51
9:DD:146:GLY:O	9:DD:149:THR:OG1	2.26	0.51
9:DD:229:VAL:HG22	9:DD:233:MET:CE	2.38	0.51
9:DD:322:SER:OG	9:DD:323:MET:N	2.43	0.51
8:DI:151:SER:HA	8:DI:193:THR:HG21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DJ:10:GLY:O	9:DJ:14:ASN:ND2	2.43	0.51
8:EG:169:PHE:HA	8:EG:202:PHE:HB2	1.91	0.51
9:EN:309:ARG:HG3	9:EN:426:GLN:HG3	1.92	0.51
8:EO:388:TRP:HB3	8:EO:425:LEU:HD13	1.92	0.51
8:FA:402:ARG:HD3	8:FA:405:VAL:HG11	1.92	0.51
9:FD:346:PRO:HD2	8:FE:398:MET:CE	2.41	0.51
9:FJ:257:MET:HE3	9:FJ:314:ALA:HB2	1.92	0.51
9:FL:258:VAL:HG23	8:FM:407:TRP:HZ2	1.75	0.51
8:FM:271:THR:HA	8:FM:302:MET:HE3	1.92	0.51
9:FN:271:ALA:HB1	9:FN:289:LEU:HD22	1.92	0.51
8:GC:226:ASN:O	8:GC:230:LEU:HD23	2.10	0.51
8:GE:119:LEU:HD11	8:GE:156:ARG:HH11	1.73	0.51
9:GL:257:MET:SD	9:GL:312:THR:OG1	2.54	0.51
8:GM:133:GLN:HB3	8:GM:252:LEU:HD12	1.92	0.51
9:HD:92:PHE:H	36:Y1:246:MET:HE1	1.74	0.51
9:HD:109:GLY:O	9:HD:113:VAL:HG13	2.10	0.51
8:HG:345:ASP:OD1	8:HG:345:ASP:N	2.43	0.51
8:HI:161:TYR:O	8:HI:166:LYS:NZ	2.40	0.51
8:HK:172:TYR:HB2	8:HK:203:MET:HB2	1.90	0.51
8:HM:186:ASN:OD1	8:HM:408:TYR:OH	2.27	0.51
9:IB:39:ASP:OD1	9:IB:40:SER:N	2.43	0.51
8:IC:56:THR:OG1	8:IC:57:GLY:N	2.42	0.51
8:IG:311:LYS:H	8:IG:382:THR:HG22	1.74	0.51
9:IH:141:GLY:O	9:IH:184:ASN:ND2	2.43	0.51
8:II:223:THR:OG1	8:II:224:TYR:N	2.39	0.51
9:IJ:87:PRO:HD3	8:JK:283:HIS:ND1	2.25	0.51
9:IJ:170:VAL:HG11	9:IJ:201:CYS:HB2	1.90	0.51
19:J2:226:TYR:HD2	8:KG:412:GLY:HA3	1.75	0.51
19:J4:67:GLU:OE1	19:J4:70:LYS:NZ	2.41	0.51
9:JB:285:THR:O	9:JB:288:GLU:HG2	2.10	0.51
9:JB:314:ALA:HB3	9:JB:368:ILE:HG23	1.91	0.51
8:JE:136:LEU:HD12	8:JE:169:PHE:HE1	1.75	0.51
8:JE:191:THR:HA	8:JE:194:THR:HG22	1.92	0.51
9:JH:347:ASN:ND2	8:JI:178:SER:HB2	2.25	0.51
8:JI:11:GLN:NE2	8:JI:71:GLU:OE2	2.43	0.51
9:JL:242:PHE:HB2	9:JL:354:CYS:SG	2.50	0.51
8:JM:167:LEU:HD23	8:JM:202:PHE:HE2	1.74	0.51
8:KG:155:GLU:O	8:KG:158:SER:OG	2.27	0.51
8:KI:7:ILE:HD12	8:KI:137:ILE:HG12	1.91	0.51
8:KI:127:ASP:OD1	8:LI:293:ASN:ND2	2.43	0.51
9:KP:274:THR:HB	9:KP:278:SER:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LF:173:PRO:HG3	9:LF:380:ARG:HE	1.75	0.51
8:LG:186:ASN:O	8:LG:190:THR:HG22	2.09	0.51
9:LH:156:ARG:NH1	9:LH:197:ASP:OD1	2.43	0.51
9:LJ:276:ARG:HA	9:LJ:279:GLN:HG3	1.93	0.51
9:LL:117:LEU:HD11	9:LL:154:LYS:HG2	1.91	0.51
9:ML:428:ALA:HB1	8:MM:401:LYS:HE3	1.92	0.51
8:MO:311:LYS:H	8:MO:382:THR:HG22	1.74	0.51
8:NA:360:PRO:O	8:NA:370:LYS:NZ	2.37	0.51
9:NB:325:GLU:N	9:NB:325:GLU:OE2	2.43	0.51
8:NE:169:PHE:HA	8:NE:202:PHE:HB2	1.92	0.51
9:NF:267:MET:HE2	9:NF:303:CYS:SG	2.50	0.51
9:NF:347:ASN:HD22	8:NG:178:SER:HB2	1.75	0.51
8:NG:382:THR:HA	8:NG:432:TYR:CE2	2.45	0.51
8:NK:195:LEU:HD11	8:NK:264:ARG:HE	1.74	0.51
9:NN:324:LYS:NZ	8:NO:213:CYS:SG	2.83	0.51
24:O4:28:LEU:HD11	24:O4:103:LEU:HD22	1.91	0.51
9:OD:323:MET:HE3	9:OD:324:LYS:HA	1.91	0.51
9:OF:267:MET:HB3	9:OF:301:ALA:HB2	1.92	0.51
8:OG:141:PHE:HB2	8:OG:173:PRO:HD3	1.92	0.51
8:OK:8:HIS:CD2	8:OK:138:PHE:HB2	2.45	0.51
8:OK:230:LEU:HD21	8:OK:302:MET:HE3	1.91	0.51
9:OL:309:ARG:NH2	9:OL:339:SER:O	2.43	0.51
9:OL:324:LYS:HD3	8:OM:210:TYR:HE2	1.75	0.51
27:P5:79:LEU:HD12	25:V:208:PRO:HG3	1.92	0.51
17:P8:183:ARG:HH12	30:W6:33:VAL:HG21	1.75	0.51
9:PF:314:ALA:HB3	9:PF:368:ILE:HB	1.92	0.51
8:PG:171:ILE:HG12	50:PG:501:GTP:HN22	1.75	0.51
9:PN:25:SER:HB2	9:PN:30:ILE:HG22	1.92	0.51
28:Q1:45:GLN:OE1	28:Q1:48:ARG:NE	2.39	0.51
9:QB:54:ALA:HB3	9:QB:58:LYS:HB3	1.91	0.51
9:QD:316:VAL:HG22	9:QD:352:ALA:HB3	1.93	0.51
9:QD:321:MET:HE1	9:QD:353:VAL:HG13	1.92	0.51
9:QD:322:SER:OG	8:QE:222:PRO:O	2.28	0.51
9:QF:173:PRO:HG2	9:QF:174:LYS:HD3	1.92	0.51
8:QO:320:ARG:HD3	8:QO:360:PRO:HG3	1.92	0.51
11:R4:352:MET:SD	11:R4:352:MET:N	2.83	0.51
8:RG:321:GLY:HA3	8:RG:373:ARG:HA	1.91	0.51
9:RH:306:ARG:NH2	9:RH:310:TYR:OH	2.43	0.51
8:RO:338:LYS:HE2	8:RO:340:THR:HB	1.91	0.51
12:S2:106:SER:HA	12:S2:109:GLU:OE1	2.09	0.51
12:S8:287:VAL:HA	12:S8:290:VAL:HB	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SB:112:LEU:HB3	9:SB:147:MET:HE1	1.92	0.51
8:SI:191:THR:HA	8:SI:194:THR:HG22	1.92	0.51
8:SM:315:CYS:HB3	8:SM:377:MET:HE1	1.92	0.51
9:SN:164:MET:HE3	9:SN:164:MET:HA	1.92	0.51
8:TC:338:LYS:HE2	8:TC:340:THR:OG1	2.09	0.51
9:TH:86:ARG:NH1	9:TH:88:ASP:OD2	2.43	0.51
9:TH:309:ARG:NH2	9:TH:339:SER:O	2.43	0.51
9:TJ:321:MET:N	9:TJ:321:MET:SD	2.83	0.51
25:U:512:VAL:O	25:U:516:MET:HG2	2.10	0.51
9:UF:337:ASN:HB3	9:UF:340:TYR:HD2	1.75	0.51
8:UI:252:LEU:HA	8:UI:255:PHE:CZ	2.45	0.51
8:UM:70:LEU:HD13	8:UM:95:GLY:HA3	1.92	0.51
8:VC:316:CYS:HB3	8:VC:378:LEU:HB2	1.92	0.51
8:VI:56:THR:HA	8:WI:285:GLN:HB3	1.92	0.51
8:VK:147:SER:OG	8:VK:190:THR:OG1	2.25	0.51
31:W:434:LEU:HD11	31:W:458:LEU:HD21	1.92	0.51
30:W0:308:GLN:CD	30:W0:309:ASN:N	2.67	0.51
30:W7:210:ASN:HA	30:W7:213:LYS:HG2	1.91	0.51
30:W7:337:THR:O	30:W7:341:LEU:HG	2.11	0.51
9:WB:54:ALA:HB3	9:WB:58:LYS:HB2	1.91	0.51
9:WF:252:LYS:HD3	8:WG:100:ALA:HA	1.90	0.51
8:WM:147:SER:OG	8:WM:190:THR:OG1	2.19	0.51
8:WM:275:VAL:HA	8:WM:368:LEU:HD11	1.91	0.51
31:X:154:ILE:HG13	31:X:185:LEU:HD22	1.92	0.51
34:X6:189:ASP:HB3	34:X6:192:LYS:HB2	1.92	0.51
35:XC:72:LYS:HD3	37:YC:62:ARG:HG3	1.91	0.51
37:YA:68:ALA:HB3	37:YA:79:ALA:HB3	1.92	0.51
39:a:188:GLU:HG2	39:b:514:ILE:HG12	1.92	0.51
40:a2:87:HIS:O	40:a2:90:THR:OG1	2.28	0.51
40:a3:67:LYS:HG3	40:a3:69:ILE:HG12	1.92	0.51
41:b2:326:GLN:O	41:b2:330:ASN:ND2	2.43	0.51
41:b2:403:ARG:HH12	41:b3:243:GLN:CB	2.24	0.51
39:d:412:LYS:HD3	39:d:413:LYS:HD3	1.91	0.51
42:f:68:SER:N	42:f:82:GLY:O	2.38	0.51
42:g:60:LEU:HD13	42:g:96:TRP:HB3	1.91	0.51
42:g:95:LEU:HG	42:g:104:ILE:HD12	1.91	0.51
42:g:290:GLN:H	42:g:290:GLN:CD	2.18	0.51
46:i4:1419:ARG:HH21	45:n:35:HIS:CD2	2.28	0.51
47:p:463:LYS:HB3	47:p:467:LYS:HZ3	1.75	0.51
2:1:440:TYR:OH	9:HB:54:ALA:O	2.18	0.51
4:6:100:GLN:NE2	8:IK:39:ASP:OD1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A5:198:ILE:HD11	11:R4:413:ARG:NH2	2.23	0.51
8:AA:2:ARG:HB3	8:AA:242:LEU:HD23	1.92	0.51
8:AA:108:TYR:HA	8:AA:112:LYS:HE3	1.91	0.51
8:AA:132:LEU:O	8:AA:164:LYS:NZ	2.39	0.51
9:AF:109:GLY:HA2	9:AF:147:MET:HE3	1.92	0.51
9:AJ:21:TRP:CZ3	9:AJ:24:ILE:HD11	2.45	0.51
9:AN:164:MET:HB2	9:AN:197:ASP:H	1.75	0.51
8:AO:113:GLU:N	8:AO:113:GLU:OE2	2.43	0.51
9:AP:293:MET:HE2	9:AP:367:PHE:HB2	1.91	0.51
8:BG:2:ARG:HB3	8:BG:242:LEU:HD23	1.90	0.51
8:BG:11:GLN:HA	8:BG:74:VAL:HG11	1.92	0.51
9:BL:170:VAL:HG11	9:BL:377:LEU:HD21	1.92	0.51
8:BM:1:MET:HG3	22:M4:199:ARG:HH22	1.75	0.51
12:C0:131:LYS:HE3	12:C1:430:THR:HG23	1.92	0.51
8:CG:213:CYS:HA	8:CG:217:LEU:HD12	1.91	0.51
8:CG:240:ALA:HB1	8:CG:356:ASN:HD22	1.75	0.51
8:CI:26:LEU:HD11	8:CI:364:PRO:HD2	1.91	0.51
14:D0:81:SER:HA	14:D1:394:LYS:HE2	1.91	0.51
14:D2:149:TYR:HB2	14:D2:183:ILE:HD13	1.92	0.51
8:DG:172:TYR:HB2	8:DG:203:MET:HE1	1.91	0.51
9:DL:41:ASP:HB3	17:M:55:VAL:HG13	1.91	0.51
8:DM:338:LYS:HD2	8:DM:340:THR:OG1	2.10	0.51
8:DQ:152:LEU:CD1	8:DQ:153:LEU:HD22	2.40	0.51
8:EC:245:ASP:N	8:EC:245:ASP:OD1	2.41	0.51
9:EF:330:MET:HA	9:EF:333:VAL:HG12	1.92	0.51
9:EJ:236:VAL:HG13	9:EJ:237:THR:HG23	1.92	0.51
8:EK:167:LEU:HD23	8:EK:202:PHE:HE2	1.76	0.51
8:EM:191:THR:HA	8:EM:194:THR:HG22	1.92	0.51
9:EN:7:LEU:N	9:EN:134:GLN:O	2.39	0.51
9:EN:238:THR:HG21	9:EN:318:ARG:HE	1.75	0.51
8:FC:188:ILE:O	8:FC:191:THR:OG1	2.25	0.51
8:FE:123:ARG:HH21	36:Y2:218:PRO:HD3	1.76	0.51
8:FE:345:ASP:N	8:FE:345:ASP:OD1	2.38	0.51
8:FI:318:LEU:HB2	8:FI:376:CYS:HB3	1.91	0.51
8:FK:336:LYS:O	8:FK:339:ARG:NH2	2.42	0.51
8:GA:258:ASN:ND2	8:GA:352:LYS:HB2	2.24	0.51
9:GD:325:GLU:OE2	8:GE:221:ARG:NH1	2.42	0.51
8:GE:35:GLN:NE2	8:GE:60:LYS:HG2	2.26	0.51
9:GJ:270:PHE:HB3	9:GJ:273:LEU:HD21	1.91	0.51
17:H:26:GLN:HB3	17:H:30:GLN:NE2	2.25	0.51
9:HB:150:LEU:HG	9:HB:154:LYS:HE2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:331:ALA:O	8:HC:335:ILE:HG23	2.11	0.51
8:HG:46:ASP:HA	8:HG:49:PHE:HE1	1.75	0.51
9:HP:302:ALA:HB3	9:HP:377:LEU:HD21	1.92	0.51
18:I1:78:ASP:O	18:I1:82:ILE:HG12	2.10	0.51
8:IC:115:VAL:HG22	8:IC:152:LEU:HD11	1.92	0.51
8:IE:11:GLN:HG3	8:IE:74:VAL:HG11	1.93	0.51
8:IE:79:ARG:HH11	15:N2:16:ASN:HD22	1.58	0.51
9:IH:252:LYS:NZ	8:II:101:ASN:OD1	2.42	0.51
8:IK:186:ASN:O	8:IK:190:THR:OG1	2.24	0.51
9:IN:346:PRO:O	8:IO:394:LYS:NZ	2.43	0.51
8:IO:286:LEU:HD13	8:IO:371:VAL:HG11	1.91	0.51
9:JB:54:ALA:HB3	9:JB:58:LYS:HB3	1.92	0.51
8:JC:157:LEU:HD22	8:JC:166:LYS:HD3	1.93	0.51
9:JF:286:VAL:N	9:JF:287:PRO:CD	2.74	0.51
8:JG:51:THR:HG23	8:JG:52:PHE:CD1	2.45	0.51
9:JH:139:LEU:HA	9:JH:145:SER:HB2	1.91	0.51
9:JJ:51:TYR:HB3	9:JJ:59:TYR:HB3	1.91	0.51
8:JK:406:HIS:HA	8:JK:409:VAL:HG12	1.92	0.51
9:JL:274:THR:OG1	9:JL:279:GLN:OE1	2.28	0.51
9:JL:375:GLN:NE2	9:JL:423:GLN:OE1	2.38	0.51
9:JN:189:VAL:HB	9:JN:415:MET:HE1	1.92	0.51
9:JN:299:MET:HE2	9:JN:299:MET:HA	1.91	0.51
20:K2:89:THR:HG23	20:K2:91:ALA:H	1.74	0.51
13:K3:362:GLU:OE2	13:K3:364:GLU:N	2.29	0.51
9:KD:376:GLU:HG2	9:KD:380:ARG:HH12	1.75	0.51
8:KE:312:TYR:HE2	8:KE:341:ILE:HD12	1.75	0.51
9:KJ:337:ASN:HB3	9:KJ:340:TYR:HB2	1.92	0.51
9:KL:14:ASN:HD21	9:KL:67:ASP:HB2	1.75	0.51
8:KM:123:ARG:NH1	41:b4:382:LEU:HD21	2.14	0.51
9:KN:406:MET:N	9:KN:406:MET:SD	2.83	0.51
8:LA:2:ARG:HB2	8:LA:242:LEU:HD23	1.91	0.51
9:LB:77:ARG:HH11	9:LB:83:GLN:HA	1.76	0.51
9:LL:258:VAL:HB	8:LM:407:TRP:HZ2	1.75	0.51
8:LO:50:ASN:HB3	25:O6:29:GLN:HE22	1.75	0.51
9:LP:372:THR:HG21	9:LP:426:GLN:HB2	1.91	0.51
22:M3:175:TYR:CE2	22:M3:183:ARG:HB3	2.44	0.51
8:NG:423:GLU:O	8:NG:427:ALA:N	2.43	0.51
9:NL:31:ASP:OD1	9:NL:35:THR:N	2.43	0.51
9:NL:213:ARG:O	9:NL:216:LYS:NZ	2.36	0.51
8:NM:70:LEU:HA	8:NM:95:GLY:HA3	1.92	0.51
17:O9:180:HIS:HB2	30:W5:38:GLN:NE2	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OC:214:ARG:NE	8:OC:220:GLU:OE2	2.43	0.51
8:OO:7:ILE:HD13	8:OO:137:ILE:HG23	1.92	0.51
8:OO:272:TYR:HE1	8:OO:374:ALA:HB1	1.74	0.51
9:PB:54:ALA:HB3	9:PB:58:LYS:HB3	1.91	0.51
8:PC:191:THR:HG21	8:PC:425:LEU:HD11	1.93	0.51
8:PI:202:PHE:HE1	8:PI:268:PRO:HB2	1.75	0.51
9:PJ:299:MET:HE3	9:PJ:305:PRO:HG3	1.92	0.51
9:PJ:322:SER:HB3	8:PK:221:ARG:CZ	2.41	0.51
9:PN:308:GLY:HA2	9:PN:426:GLN:HE22	1.74	0.51
8:PO:129:CYS:SG	8:PO:130:THR:N	2.82	0.51
28:Q3:115:GLU:N	28:Q3:115:GLU:OE1	2.43	0.51
9:QD:72:THR:O	9:QD:75:SER:OG	2.24	0.51
9:QD:204:ASN:OD1	52:QD:502:GDP:N2	2.41	0.51
8:QM:191:THR:HA	8:QM:194:THR:HG22	1.92	0.51
8:RC:215:ARG:NH2	8:RC:299:ALA:O	2.44	0.51
8:RC:315:CYS:HB3	8:RC:377:MET:HE1	1.91	0.51
8:RE:51:THR:HG21	8:RE:243:ARG:HG2	1.91	0.51
9:RF:150:LEU:HG	9:RF:154:LYS:HE2	1.91	0.51
9:RL:314:ALA:HB3	9:RL:368:ILE:HG23	1.91	0.51
8:RM:297:GLU:O	8:RM:300:ASN:ND2	2.43	0.51
9:RN:15:GLN:NE2	52:RN:502:GDP:N7	2.54	0.51
12:S0:184:GLY:O	12:S0:485:ARG:NH2	2.43	0.51
12:S1:405:ARG:NH2	12:S9:453:ALA:HB1	2.25	0.51
12:S5:319:ALA:HA	12:S5:322:ARG:HD3	1.93	0.51
12:S8:366:THR:HA	12:S8:369:LEU:HB2	1.91	0.51
9:SB:379:LYS:HD3	9:SB:419:VAL:HG21	1.92	0.51
9:SF:362:LYS:HD2	9:SF:363:MET:SD	2.50	0.51
9:SL:20:PHE:CG	9:SL:233:MET:HE1	2.46	0.51
8:SM:136:LEU:HD12	8:SM:136:LEU:O	2.11	0.51
8:TA:188:ILE:O	8:TA:191:THR:OG1	2.22	0.51
8:TI:201:ALA:O	8:TI:268:PRO:HD2	2.10	0.51
9:TL:134:GLN:OE1	9:TL:233:MET:HE1	2.10	0.51
9:TN:113:VAL:HG11	9:TN:150:LEU:HD23	1.92	0.51
30:U6:104:ARG:HB3	30:W2:295:THR:HG21	1.93	0.51
30:U8:280:PHE:O	30:U9:393:GLN:NE2	2.43	0.51
30:U8:339:THR:HB	30:U8:473:ARG:NH2	2.20	0.51
30:U8:380:ARG:NE	30:W0:305:ARG:HD3	2.16	0.51
8:UA:172:TYR:OH	8:UA:390:ARG:NH1	2.42	0.51
8:UA:231:ILE:O	8:UA:235:VAL:HG23	2.11	0.51
8:UI:228:ASN:HA	8:UI:231:ILE:HG22	1.92	0.51
8:UK:7:ILE:HA	8:UK:66:VAL:HG12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UO:358:GLN:NE2	8:UO:359:PRO:O	2.42	0.51
30:V3:195:LEU:HA	30:V3:215:LEU:HD13	1.92	0.51
30:V3:387:TYR:HD1	30:V3:390:LYS:HE2	1.75	0.51
30:V5:332:MET:SD	30:V5:476:PHE:HE1	2.34	0.51
30:V7:149:LEU:HD21	30:V7:291:SER:HB3	1.93	0.51
30:V7:265:GLU:HG3	30:V7:290:VAL:HG11	1.92	0.51
30:V8:159:GLU:HG3	30:V8:304:ILE:HG23	1.92	0.51
9:VB:323:MET:H	9:VB:323:MET:CE	2.23	0.51
8:VC:88:HIS:HB3	8:VC:91:GLN:HG2	1.92	0.51
9:VD:403:MET:SD	9:VD:403:MET:N	2.81	0.51
8:VE:286:LEU:O	8:VE:373:ARG:NH1	2.43	0.51
8:VO:102:ASN:HB3	8:VO:105:ARG:HB2	1.91	0.51
9:WB:299:MET:HE1	9:WB:305:PRO:CG	2.41	0.51
8:WM:329:ASN:HA	8:WM:332:ILE:HG22	1.92	0.51
33:X4:205:THR:OG1	33:X4:206:GLY:N	2.43	0.51
34:X7:50:PRO:O	34:X7:51:ASP:C	2.52	0.51
34:X8:195:VAL:HG13	34:X8:247:LEU:HD22	1.93	0.51
35:XE:50:GLU:OE1	35:XE:159:ASN:HA	2.10	0.51
31:Y:507:LEU:HB3	31:Y:522:LEU:HD11	1.92	0.51
41:b3:182:ARG:O	41:b3:185:ARG:NH1	2.43	0.51
39:c:207:ARG:O	39:c:211:ILE:HG13	2.10	0.51
39:c:476:ASN:HB2	39:c:480:ARG:HH21	1.76	0.51
46:i3:1471:VAL:HG23	46:i3:1503:SER:HA	1.92	0.51
4:6:212:ARG:NH2	4:6:224:ALA:O	2.41	0.51
9:AD:306:ARG:HH22	37:YB:27:THR:HG23	1.73	0.51
8:AI:141:PHE:HB2	8:AI:173:PRO:HD3	1.93	0.51
8:AI:224:TYR:O	8:AI:228:ASN:ND2	2.44	0.51
11:B1:123:ARG:NE	11:B1:127:ASP:O	2.41	0.51
9:BF:111:GLU:N	9:BF:111:GLU:OE1	2.42	0.51
9:BN:94:GLN:N	9:BN:94:GLN:OE1	2.43	0.51
9:BN:248:ALA:HA	9:BN:252:LYS:HD3	1.92	0.51
12:C4:156:TRP:HB3	12:C4:261:LYS:HE3	1.92	0.51
8:CC:133:GLN:HB3	8:CC:252:LEU:HD13	1.93	0.51
9:CF:47:ILE:HG12	9:CF:51:TYR:HB2	1.92	0.51
8:CQ:16:ILE:O	8:CQ:20:CYS:N	2.40	0.51
8:CQ:49:PHE:HD2	8:CQ:53:PHE:HB2	1.74	0.51
9:DD:16:ILE:HD12	9:DD:229:VAL:HG11	1.92	0.51
9:DD:321:MET:SD	9:DD:321:MET:N	2.84	0.51
8:DI:234:ILE:HD11	8:DI:272:TYR:HB2	1.93	0.51
9:DP:239:CYS:SG	9:DP:248:ALA:N	2.83	0.51
8:DQ:108:TYR:CD2	8:DQ:413:MET:HE1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DQ:114:ILE:HB	8:DQ:117:LEU:HD11	1.93	0.51
9:EB:282:ARG:NH2	9:EB:292:GLN:OE1	2.38	0.51
9:ED:327:ASP:HA	9:ED:330:MET:HE3	1.91	0.51
8:EE:188:ILE:O	8:EE:191:THR:OG1	2.26	0.51
8:EG:348:PRO:HD2	9:EH:388:MET:HE2	1.91	0.51
9:EL:239:CYS:SG	9:EL:248:ALA:N	2.83	0.51
9:EN:249:ASP:OD1	9:EN:251:ARG:N	2.43	0.51
8:FC:121:ARG:HE	8:FC:124:LYS:HD2	1.74	0.51
8:FK:51:THR:HG21	8:FK:243:ARG:HG2	1.92	0.51
8:FM:209:ILE:HD12	8:FM:209:ILE:H	1.75	0.51
9:FN:31:ASP:OD1	9:FN:35:THR:N	2.43	0.51
9:FN:114:ASP:OD1	9:FN:114:ASP:N	2.42	0.51
8:GA:215:ARG:NH2	8:GA:299:ALA:O	2.44	0.51
9:GH:230:SER:HA	9:GH:233:MET:SD	2.51	0.51
8:HC:188:ILE:HD13	8:HC:425:LEU:HD12	1.92	0.51
8:HC:254:GLU:HG2	9:HD:98:GLY:HA2	1.92	0.51
9:HD:8:GLN:HG2	9:HD:14:ASN:HA	1.90	0.51
9:HD:251:ARG:NE	8:HE:105:ARG:HH12	2.07	0.51
8:IK:191:THR:HG21	8:IK:425:LEU:HD11	1.92	0.51
9:IL:228:LEU:HD22	9:IL:300:MET:HE1	1.92	0.51
8:IM:319:TYR:HB3	8:IM:323:VAL:HG21	1.91	0.51
9:IP:287:PRO:HA	9:IP:329:GLN:HE21	1.75	0.51
19:J4:236:TRP:HZ3	9:LN:430:ALA:O	1.94	0.51
9:JB:221:THR:HG23	9:JB:223:GLY:H	1.75	0.51
8:JG:422:ARG:HH12	8:JG:426:ALA:HB2	1.74	0.51
9:JH:402:GLY:CA	9:JH:403:MET:CE	2.88	0.51
9:JN:6:HIS:HA	9:JN:134:GLN:HE22	1.75	0.51
8:KC:107:HIS:HA	8:KC:152:LEU:HD23	1.93	0.51
9:KD:229:VAL:HG12	9:KD:233:MET:SD	2.51	0.51
9:KD:330:MET:SD	9:KD:349:VAL:HG21	2.50	0.51
8:KE:234:ILE:HD11	8:KE:302:MET:HE1	1.91	0.51
8:KE:250:VAL:HG13	8:KE:254:GLU:HB2	1.91	0.51
9:KH:375:GLN:HE22	9:KH:423:GLN:HB2	1.75	0.51
9:KN:158:GLU:HG3	9:KN:159:TYR:CD1	2.45	0.51
9:LP:166:THR:HG23	9:LP:199:THR:HG23	1.93	0.51
8:ME:147:SER:OG	8:ME:190:THR:OG1	2.24	0.51
8:MI:51:THR:HG21	8:MI:243:ARG:HG2	1.92	0.51
8:MO:396:ASP:OD1	8:MO:397:LEU:N	2.43	0.51
9:MP:86:ARG:HA	9:MP:86:ARG:CZ	2.39	0.51
9:NF:141:GLY:O	9:NF:145:SER:OG	2.25	0.51
9:NF:356:ILE:HD12	9:NF:357:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NJ:97:ALA:HB1	9:NJ:100:ASN:O	2.11	0.51
8:NK:265:ILE:HD12	8:NK:432:TYR:CE1	2.45	0.51
9:NP:1:MET:HE1	9:NP:2:ARG:HH21	1.75	0.51
9:NP:8:GLN:HB3	9:NP:65:LEU:HA	1.92	0.51
17:O8:54:SER:HB2	27:P3:157:LEU:CA	2.40	0.51
17:O9:52:PRO:HB3	27:P4:135:LEU:HD13	1.92	0.51
9:OB:20:PHE:HZ	9:OB:233:MET:HB2	1.74	0.51
9:OF:304:ASP:OD1	9:OF:305:PRO:HD2	2.10	0.51
8:OG:103:TYR:HB3	8:OG:408:TYR:HE2	1.75	0.51
8:OK:83:TYR:HB3	8:OK:86:LEU:HD22	1.92	0.51
9:OL:257:MET:N	9:OL:257:MET:SD	2.83	0.51
8:OM:186:ASN:O	8:OM:190:THR:OG1	2.23	0.51
9:ON:170:VAL:HG11	9:ON:377:LEU:HD21	1.92	0.51
27:P5:178:PHE:CD1	11:R2:124:ARG:HD3	2.46	0.51
27:P7:15:ASP:OD2	27:P7:15:ASP:N	2.42	0.51
9:PD:173:PRO:HG3	9:PD:380:ARG:HG2	1.90	0.51
9:PD:274:THR:HB	9:PD:278:SER:HB2	1.92	0.51
8:PE:172:TYR:N	8:PE:204:VAL:O	2.35	0.51
8:PI:107:HIS:HA	8:PI:152:LEU:HD23	1.92	0.51
8:PK:108:TYR:HA	8:PK:112:LYS:HE3	1.91	0.51
9:PL:290:THR:OG1	9:PL:329:GLN:OE1	2.28	0.51
8:QE:120:ASP:OD2	8:QE:121:ARG:NH1	2.44	0.51
8:QG:154:MET:HE1	8:QG:194:THR:HA	1.91	0.51
9:QH:344:TRP:HZ3	8:QI:403:ALA:HB2	1.76	0.51
9:QN:244:GLY:HA2	9:QN:355:ASP:OD1	2.11	0.51
8:QO:116:ASP:N	8:QO:116:ASP:OD1	2.42	0.51
9:QP:8:GLN:HE21	9:QP:14:ASN:HA	1.76	0.51
11:R0:373:ILE:HA	11:R0:376:ASP:OD2	2.11	0.51
11:R2:324:ARG:CD	11:R2:328:GLU:HG3	2.40	0.51
8:RI:107:HIS:HA	8:RI:152:LEU:HD23	1.93	0.51
8:RI:367:ASP:OD1	8:RI:367:ASP:N	2.41	0.51
9:RL:337:ASN:HB3	9:RL:340:TYR:HD2	1.75	0.51
8:RM:213:CYS:HA	8:RM:217:LEU:HB2	1.91	0.51
8:RM:293:ASN:OD1	8:RM:294:ALA:N	2.42	0.51
9:RN:31:ASP:OD1	9:RN:35:THR:N	2.44	0.51
9:RP:164:MET:SD	9:RP:164:MET:N	2.83	0.51
12:S1:71:ARG:NH1	12:S2:230:GLN:OE1	2.43	0.51
12:S3:142:SER:HA	12:S4:419:ARG:CZ	2.41	0.51
12:S4:255:GLU:OE1	12:S5:204:LYS:HE3	2.09	0.51
9:SB:10:GLY:O	9:SB:14:ASN:ND2	2.43	0.51
9:SB:323:MET:SD	9:SB:323:MET:N	2.71	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SJ:60:VAL:HG11	9:TJ:281:TYR:HB2	1.91	0.51
9:SJ:89:ASN:ND2	9:SJ:123:GLU:OE2	2.41	0.51
8:SK:108:TYR:HA	8:SK:112:LYS:HE3	1.93	0.51
8:TA:214:ARG:NH1	8:TA:220:GLU:O	2.43	0.51
8:TC:264:ARG:NH1	8:TC:431:ASP:OD2	2.43	0.51
9:TH:147:MET:O	9:TH:151:LEU:N	2.41	0.51
9:TH:156:ARG:HG3	9:TH:195:ASN:HB3	1.92	0.51
9:TJ:2:ARG:NH2	8:TK:73:THR:OG1	2.43	0.51
8:TK:204:VAL:HG23	8:TK:302:MET:HB2	1.93	0.51
9:TL:256:ASN:HD22	8:TM:182:VAL:HG22	1.75	0.51
8:TM:165:SER:HB3	8:TM:256:GLN:HE22	1.76	0.51
9:TN:5:VAL:HB	9:TN:133:PHE:HD1	1.75	0.51
25:U:317:ASP:HA	25:U:320:VAL:HG22	1.91	0.51
8:UA:317:MET:HE2	8:UA:317:MET:HA	1.92	0.51
9:UF:170:VAL:HG11	9:UF:377:LEU:HD21	1.91	0.51
9:UF:313:VAL:HB	9:UF:349:VAL:HG22	1.93	0.51
9:UJ:267:MET:HG2	9:UJ:299:MET:CE	2.41	0.51
8:UM:326:LYS:NZ	9:UN:208:TYR:O	2.43	0.51
9:UN:31:ASP:OD1	9:UN:35:THR:N	2.42	0.51
30:V1:338:ASN:HA	30:V1:341:LEU:HG	1.93	0.51
30:V2:177:LEU:HD22	30:V2:233:ALA:HB2	1.91	0.51
30:V2:375:ILE:HD13	30:V2:378:LEU:HD12	1.92	0.51
8:VC:20:CYS:HB3	8:VC:24:TYR:CZ	2.45	0.51
8:VE:172:TYR:HB2	8:VE:203:MET:HB2	1.92	0.51
8:VE:254:GLU:N	8:VE:254:GLU:OE1	2.43	0.51
8:VG:172:TYR:N	8:VG:204:VAL:O	2.35	0.51
30:W2:209:ASP:OD1	30:W2:210:ASN:N	2.43	0.51
9:WB:330:MET:SD	9:WB:349:VAL:HB	2.49	0.51
8:WC:138:PHE:HZ	8:WC:235:VAL:HG21	1.76	0.51
8:WE:188:ILE:O	8:WE:191:THR:OG1	2.24	0.51
9:WH:273:LEU:O	9:WH:292:GLN:NE2	2.43	0.51
9:WH:355:ASP:N	9:WH:355:ASP:OD1	2.40	0.51
9:WN:122:LYS:NZ	37:YG:199:GLN:OE1	2.38	0.51
31:X:542:TYR:CE1	31:X:595:ILE:HD13	2.43	0.51
31:Y:112:THR:OG1	31:Y:133:ARG:NE	2.36	0.51
37:YG:78:ILE:HG22	37:YG:113:ARG:HG3	1.93	0.51
40:a1:11:LEU:HD11	40:a1:40:LYS:HB2	1.93	0.51
41:b2:227:LEU:HD12	41:b2:303:LEU:HD13	1.92	0.51
39:d:480:ARG:O	39:d:484:GLU:HG2	2.10	0.51
42:e:341:PRO:HB2	42:e:344:THR:HG23	1.91	0.51
42:e:345:ALA:HB2	42:e:597:PRO:HD2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:o:175:SER:O	47:o:178:LYS:NZ	2.44	0.51
47:p:491:VAL:HG23	47:p:492:GLN:NE2	2.25	0.51
49:y:89:THR:HB	49:y:92:GLN:HG2	1.92	0.51
3:3:191:LYS:HA	3:3:194:LYS:HZ3	1.75	0.51
3:3:367:ILE:HG22	3:3:371:LYS:HE2	1.92	0.51
9:AF:234:SER:O	9:AF:238:THR:OG1	2.29	0.51
9:AL:87:PRO:HD3	9:BL:281:TYR:HD2	1.75	0.51
8:AM:194:THR:O	8:AM:266:HIS:NE2	2.39	0.51
9:AP:113:VAL:HA	9:AP:116:VAL:HG22	1.92	0.51
10:B:57:LEU:O	10:B:61:GLN:HG3	2.09	0.51
9:BB:170:VAL:HG11	9:BB:377:LEU:HD11	1.91	0.51
8:BE:274:PRO:HG3	8:BE:286:LEU:HD13	1.93	0.51
9:BF:215:LEU:HD21	9:BF:273:LEU:HD22	1.91	0.51
9:BH:102:ALA:HB2	9:BH:403:MET:HE3	1.93	0.51
9:BJ:324:LYS:O	9:BJ:328:GLU:N	2.30	0.51
8:BK:207:GLU:HG2	8:BK:304:LYS:HE2	1.92	0.51
8:BK:240:ALA:HB1	8:BK:358:GLN:HE22	1.74	0.51
12:C0:298:GLU:HB3	12:C0:302:LYS:NZ	2.25	0.51
8:CI:105:ARG:HH21	8:CI:110:ILE:HG13	1.76	0.51
8:CI:203:MET:HE1	8:CI:267:PHE:CD1	2.46	0.51
9:CL:79:GLY:HA2	31:Y:280:ARG:HD2	1.92	0.51
9:CN:305:PRO:HG2	9:CN:306:ARG:HH12	1.75	0.51
14:D1:121:ILE:HD11	14:D1:212:GLU:HA	1.92	0.51
14:D4:447:GLN:HA	9:LN:37:HIS:HE1	1.75	0.51
8:DI:190:THR:O	8:DI:194:THR:HG23	2.10	0.51
8:DK:191:THR:HA	8:DK:194:THR:HG22	1.91	0.51
8:EA:201:ALA:HB1	8:EA:203:MET:SD	2.51	0.51
9:EB:130:LEU:O	9:EB:162:ARG:NH1	2.41	0.51
9:EB:257:MET:HA	9:EB:257:MET:HE3	1.92	0.51
8:EC:422:ARG:HH12	8:EC:426:ALA:HB2	1.75	0.51
9:EH:69:GLU:HG2	9:EH:71:GLY:H	1.76	0.51
9:EJ:237:THR:HG22	9:EJ:250:LEU:HD21	1.91	0.51
8:EK:388:TRP:HB3	8:EK:425:LEU:HD11	1.90	0.51
9:EL:321:MET:SD	9:EL:322:SER:N	2.84	0.51
9:EN:324:LYS:HD3	8:EO:210:TYR:CG	2.45	0.51
9:FJ:156:ARG:NH1	9:FJ:197:ASP:OD1	2.43	0.51
9:FN:60:VAL:HG11	9:GN:281:TYR:HB3	1.92	0.51
9:GB:6:HIS:HD2	9:GB:21:TRP:HE1	1.57	0.51
9:GB:68:LEU:HB3	9:GB:96:GLY:HA2	1.91	0.51
8:GC:316:CYS:HB3	8:GC:378:LEU:HB2	1.93	0.51
9:GF:97:ALA:HA	9:GF:103:LYS:CD	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GH:412:GLU:O	9:GH:416:ASN:ND2	2.42	0.51
8:GM:352:LYS:HE3	9:GN:179:VAL:HG13	1.93	0.51
8:HA:297:GLU:O	8:HA:301:GLN:NE2	2.38	0.51
8:HC:35:GLN:HG2	8:HC:60:LYS:HG3	1.91	0.51
9:HJ:113:VAL:O	9:HJ:117:LEU:HD22	2.10	0.51
8:HK:116:ASP:N	8:HK:116:ASP:OD1	2.41	0.51
8:IA:286:LEU:O	8:IA:373:ARG:NH1	2.43	0.51
9:IB:46:ARG:HH22	8:IC:72:PRO:HG2	1.75	0.51
9:IB:275:SER:O	9:IB:279:GLN:NE2	2.43	0.51
8:IC:172:TYR:CD1	8:IC:203:MET:HE1	2.43	0.51
8:IC:311:LYS:H	8:IC:382:THR:HG22	1.75	0.51
9:IF:336:LYS:HE3	36:Y1:199:GLN:HG3	1.92	0.51
17:J:288:PHE:HE1	17:J:290:PRO:HG3	1.75	0.51
19:J3:140:LEU:HD21	41:b3:348:GLU:HA	1.92	0.51
8:JE:252:LEU:HA	8:JE:255:PHE:CE2	2.44	0.51
8:JI:209:ILE:HA	8:JI:212:ILE:HG22	1.91	0.51
9:JL:249:ASP:H	9:JL:252:LYS:HB3	1.75	0.51
9:JP:178:THR:HB	9:JP:181:GLU:HB2	1.91	0.51
9:JP:372:THR:HA	9:JP:422:TYR:HE1	1.75	0.51
9:KB:382:SER:OG	9:KB:412:GLU:OE2	2.25	0.51
9:KD:207:LEU:HB3	9:KD:225:LEU:HD22	1.93	0.51
9:KD:321:MET:HE3	9:KD:363:MET:SD	2.49	0.51
9:KF:419:VAL:HA	9:KF:422:TYR:HB2	1.92	0.51
8:KG:234:ILE:HD11	8:KG:302:MET:HE1	1.92	0.51
9:KH:125:GLU:OE2	9:KH:159:TYR:OH	2.28	0.51
8:KK:289:ALA:O	8:KK:292:THR:OG1	2.27	0.51
8:KM:332:ILE:HD11	9:KN:175:VAL:HG23	1.93	0.51
9:KN:132:GLY:HA2	9:KN:162:ARG:HB3	1.92	0.51
9:KP:132:GLY:HA2	9:KP:162:ARG:HB3	1.92	0.51
9:LD:260:PHE:HB2	9:LD:263:LEU:HD13	1.93	0.51
8:LK:153:LEU:O	8:LK:157:LEU:HB2	2.10	0.51
9:LN:263:LEU:HD22	9:LN:422:TYR:CE2	2.45	0.51
8:MC:2:ARG:HH22	9:MD:71:GLY:HA3	1.76	0.51
9:MF:1:MET:HA	9:MF:1:MET:HE3	1.93	0.51
9:MF:227:HIS:CE1	23:P:252:LEU:HD22	2.45	0.51
9:MH:337:ASN:ND2	43:j:48:THR:OG1	2.32	0.51
8:MM:346:TRP:HZ2	8:MM:435:VAL:HG13	1.75	0.51
9:MN:249:ASP:OD1	9:MN:252:LYS:N	2.40	0.51
8:NC:315:CYS:HB3	8:NC:377:MET:HE1	1.93	0.51
9:NF:324:LYS:N	8:NG:221:ARG:HH12	2.09	0.51
8:NI:8:HIS:CE1	8:NI:21:TRP:HE1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O1:62:PHE:N	24:O1:67:TYR:OH	2.37	0.51
24:O2:111:ARG:O	24:O2:114:THR:OG1	2.28	0.51
9:OB:342:VAL:HG21	9:OB:345:ILE:HD12	1.91	0.51
8:OC:108:TYR:HA	8:OC:112:LYS:HE3	1.92	0.51
8:OC:154:MET:HA	8:OC:157:LEU:HB2	1.91	0.51
8:OC:324:VAL:HG12	8:OC:326:LYS:H	1.76	0.51
9:OF:58:LYS:HE3	9:PF:280:GLN:HE21	1.74	0.51
9:ON:164:MET:SD	9:ON:196:THR:HA	2.50	0.51
8:OO:8:HIS:ND1	8:OO:13:GLY:O	2.43	0.51
8:OO:70:LEU:HB3	8:OO:98:ASP:HA	1.92	0.51
27:P3:174:PRO:HD3	11:R1:12:TYR:HE1	1.76	0.51
8:PC:139:HIS:O	8:PC:170:ALA:HA	2.11	0.51
9:PH:372:THR:HG21	9:PH:426:GLN:HB2	1.91	0.51
9:PJ:142:GLY:N	52:PJ:502:GDP:O3B	2.37	0.51
8:PM:326:LYS:HD3	9:PN:220:PRO:HG2	1.93	0.51
9:PN:324:LYS:NZ	8:PO:223:THR:O	2.44	0.51
8:PO:30:ILE:HG21	8:PO:53:PHE:HE2	1.75	0.51
8:QC:172:TYR:HB2	8:QC:203:MET:HG3	1.91	0.51
9:QD:324:LYS:N	8:QE:221:ARG:HH22	2.04	0.51
9:QJ:284:LEU:HD12	9:QJ:362:LYS:HD3	1.93	0.51
9:QJ:293:MET:HE1	9:QJ:294:PHE:CE1	2.45	0.51
8:QM:154:MET:HE2	8:QM:197:HIS:HB2	1.90	0.51
11:R2:354:GLN:OE1	11:R2:354:GLN:HA	2.09	0.51
11:R3:187:ARG:O	11:R3:191:SER:OG	2.25	0.51
11:R3:389:LYS:NZ	12:S8:481:PRO:O	2.34	0.51
8:RE:215:ARG:HB2	8:RE:215:ARG:NH1	2.25	0.51
9:RF:5:VAL:HG22	9:RF:62:ARG:HD2	1.92	0.51
9:RH:289:LEU:HD11	9:RH:363:MET:HB3	1.91	0.51
9:RJ:73:MET:SD	9:RJ:73:MET:N	2.84	0.51
8:RO:53:PHE:O	8:RO:64:ARG:NH1	2.44	0.51
29:S:318:HIS:CE1	29:S:322:LEU:HD11	2.46	0.51
12:S0:221:ALA:O	12:S0:225:THR:HG23	2.10	0.51
12:S1:222:GLU:OE1	12:S1:339:GLN:HG2	2.09	0.51
12:S5:132:TYR:O	12:S5:136:ARG:HG2	2.10	0.51
8:SA:7:ILE:HD12	8:SA:137:ILE:HG12	1.92	0.51
8:SC:231:ILE:HA	8:SC:234:ILE:HD12	1.92	0.51
8:SE:138:PHE:CD2	8:SE:169:PHE:HB2	2.45	0.51
9:SF:133:PHE:HB2	9:SF:164:MET:SD	2.50	0.51
8:SG:12:ALA:O	8:SG:16:ILE:HG22	2.10	0.51
9:SH:346:PRO:HD2	8:SI:398:MET:CE	2.41	0.51
8:SI:319:TYR:CE2	8:SI:353:VAL:HG13	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SI:325:PRO:HA	8:SI:328:VAL:HB	1.93	0.51
8:SK:317:MET:HE3	8:SK:318:LEU:H	1.76	0.51
9:TB:265:PHE:HB2	9:TB:374:ILE:HD12	1.92	0.51
8:TG:108:TYR:HA	8:TG:112:LYS:HE3	1.93	0.51
8:TG:172:TYR:N	8:TG:204:VAL:O	2.29	0.51
8:TG:298:PRO:HA	8:TG:301:GLN:HG2	1.91	0.51
9:TN:299:MET:HA	9:TN:299:MET:HE2	1.92	0.51
25:U:251:ASP:O	25:U:257:GLY:HA3	2.11	0.51
30:U0:182:GLU:HA	30:U0:185:ASN:HD22	1.75	0.51
30:U8:274:SER:O	30:U9:387:TYR:OH	2.27	0.51
8:UA:202:PHE:HZ	8:UA:378:LEU:HD13	1.75	0.51
9:UB:198:GLU:HA	9:UB:264:HIS:HB2	1.93	0.51
8:UE:68:VAL:HG12	8:UE:93:ILE:HB	1.91	0.51
8:UK:149:PHE:HA	8:UK:152:LEU:HG	1.92	0.51
30:V7:268:PHE:O	30:V7:272:SER:HB3	2.09	0.51
9:VB:10:GLY:O	9:VB:14:ASN:ND2	2.43	0.51
8:VE:338:LYS:HE2	8:VE:340:THR:HB	1.92	0.51
9:VF:8:GLN:HB3	9:VF:65:LEU:HA	1.92	0.51
9:VF:31:ASP:OD1	9:VF:35:THR:N	2.39	0.51
8:VG:172:TYR:HB2	8:VG:203:MET:HB2	1.92	0.51
8:VG:235:VAL:HA	8:VG:238:ILE:HD12	1.91	0.51
8:VG:328:VAL:HG21	8:VG:355:ILE:HD11	1.93	0.51
8:VI:132:LEU:HD21	8:VI:135:PHE:HE2	1.75	0.51
8:VK:254:GLU:HB3	8:VK:352:LYS:HZ1	1.74	0.51
8:VO:132:LEU:O	8:VO:164:LYS:NZ	2.36	0.51
8:VO:324:VAL:HG12	8:VO:326:LYS:H	1.75	0.51
30:W0:201:ARG:HB2	30:W0:206:LEU:HD13	1.92	0.51
9:WJ:372:THR:HA	9:WJ:422:TYR:HE1	1.74	0.51
9:WL:239:CYS:SG	9:WL:248:ALA:N	2.81	0.51
9:WL:309:ARG:NH2	9:WL:339:SER:O	2.44	0.51
8:WM:311:LYS:HD3	8:WM:344:VAL:HA	1.92	0.51
9:WN:294:PHE:CE2	9:WN:333:VAL:HG11	2.46	0.51
34:X6:119:ILE:O	34:X6:123:VAL:N	2.43	0.51
34:X8:206:VAL:HG11	34:X8:236:LEU:HD21	1.93	0.51
31:Z:3:LEU:HD13	31:Z:4:PRO:HD2	1.91	0.51
41:b4:223:LEU:HD22	41:b4:310:ILE:HD12	1.93	0.51
41:b5:151:LEU:HB2	41:b5:227:LEU:HD22	1.92	0.51
39:d:499:GLU:OE1	39:d:502:ARG:NH1	2.43	0.51
42:e:292:GLY:H	42:e:310:GLU:HB2	1.74	0.51
42:e:530:GLU:HB2	42:e:537:ILE:HD11	1.92	0.51
42:f:528:TYR:HB3	42:f:537:ILE:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:g:538:ARG:NH2	42:g:577:GLY:HA3	2.25	0.51
44:h3:65:LYS:HG2	44:h3:66:PHE:CD2	2.45	0.51
46:i4:1473:ASP:HA	46:i4:1476:LYS:HD2	1.92	0.51
47:o:218:GLU:HA	47:o:221:GLU:OE2	2.11	0.51
4:6:369:VAL:HG13	4:6:370:GLN:HG3	1.93	0.51
9:AL:68:LEU:HD21	9:AL:147:MET:HE1	1.93	0.51
8:AM:109:THR:HG23	8:AM:110:ILE:HG12	1.91	0.51
9:AN:262:ARG:NH1	37:YG:231:MET:SD	2.84	0.51
8:BG:239:THR:HB	8:BG:243:ARG:HH21	1.74	0.51
8:BI:225:THR:OG1	8:BI:229:ARG:NH2	2.38	0.51
8:BK:114:ILE:O	8:BK:118:VAL:HG12	2.11	0.51
10:C:315:ASP:HA	10:C:318:GLN:HG2	1.92	0.51
9:CB:27:GLU:OE1	9:CB:28:HIS:N	2.43	0.51
9:CH:130:LEU:HD11	9:CH:162:ARG:HG3	1.92	0.51
8:CM:172:TYR:HH	8:CM:388:TRP:HD1	1.58	0.51
8:CQ:51:THR:HG21	8:CQ:243:ARG:HG2	1.91	0.51
9:DL:337:ASN:HB3	9:DL:340:TYR:HD2	1.75	0.51
8:DO:50:ASN:O	8:DO:64:ARG:NH1	2.43	0.51
8:DO:234:ILE:HD11	8:DO:272:TYR:HB2	1.92	0.51
9:EB:344:TRP:H	9:EB:344:TRP:CD1	2.29	0.51
9:EL:36:TYR:CZ	9:EL:44:LEU:HD22	2.45	0.51
9:EN:143:THR:O	9:EN:148:GLY:N	2.34	0.51
8:EO:186:ASN:O	8:EO:190:THR:OG1	2.23	0.51
9:FH:130:LEU:O	9:FH:162:ARG:NH1	2.37	0.51
9:FN:252:LYS:HA	8:FO:100:ALA:HB1	1.93	0.51
8:GG:19:ALA:O	8:GG:23:LEU:HD22	2.11	0.51
8:GI:53:PHE:O	8:GI:64:ARG:NH1	2.44	0.51
9:HB:68:LEU:HG	9:HB:96:GLY:HA2	1.92	0.51
9:HD:10:GLY:O	9:HD:14:ASN:N	2.36	0.51
9:HJ:305:PRO:HA	9:HJ:373:ALA:HB2	1.92	0.51
9:HJ:309:ARG:HG3	9:HJ:426:GLN:HG3	1.91	0.51
8:HM:189:LEU:O	8:HM:192:HIS:ND1	2.43	0.51
9:HN:204:ASN:OD1	9:HN:204:ASN:N	2.44	0.51
8:HO:205:ASP:OD1	8:HO:303:VAL:HA	2.10	0.51
8:HO:346:TRP:HZ2	8:HO:435:VAL:HG13	1.75	0.51
9:HP:249:ASP:OD1	9:HP:251:ARG:N	2.43	0.51
8:IA:121:ARG:HA	8:IA:124:LYS:HZ3	1.76	0.51
8:IG:88:HIS:HE1	8:IG:90:GLU:HB2	1.74	0.51
8:IK:3:GLU:HB3	8:IK:132:LEU:HD23	1.92	0.51
8:IM:196:GLU:OE1	34:X7:263:ARG:NH2	2.44	0.51
8:IO:109:THR:HG23	8:IO:411:GLU:OE2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IP:6:HIS:CD2	9:IP:134:GLN:HE22	2.28	0.51
19:J3:184:GLN:O	19:J3:189:GLN:NE2	2.44	0.51
9:JB:318:ARG:O	9:JB:364:SER:N	2.42	0.51
8:JK:183:GLU:OE1	8:JK:184:PRO:HD3	2.09	0.51
8:JM:438:ASP:OD1	8:JM:438:ASP:N	2.37	0.51
8:JO:33:ASP:OD2	8:JO:35:GLN:NE2	2.33	0.51
8:KE:104:ALA:HB2	8:KE:413:MET:HG2	1.92	0.51
8:KI:130:THR:O	41:b3:385:ARG:NH2	2.43	0.51
9:KP:265:PHE:HB3	9:KP:374:ILE:HD13	1.93	0.51
8:LE:85:GLN:O	8:ME:283:HIS:NE2	2.41	0.51
9:LJ:265:PHE:HB3	9:LJ:374:ILE:CD1	2.39	0.51
9:LL:169:VAL:HG22	9:LL:202:ILE:HG13	1.91	0.51
8:LM:50:ASN:O	8:LM:64:ARG:NH1	2.44	0.51
8:LO:88:HIS:CD2	8:MO:283:HIS:HB3	2.45	0.51
17:M:7:HIS:HA	25:O5:414:MET:HE1	1.92	0.51
9:ML:153:SER:HA	9:ML:195:ASN:HD22	1.76	0.51
8:MM:373:ARG:NH2	23:P:36:ARG:O	2.44	0.51
8:NC:269:LEU:HD22	8:NC:303:VAL:HG21	1.91	0.51
9:ND:68:LEU:HB3	9:ND:96:GLY:HA2	1.92	0.51
9:NJ:143:THR:OG1	52:NJ:502:GDP:O1B	2.17	0.51
9:NL:68:LEU:HG	9:NL:143:THR:HG23	1.93	0.51
9:NL:156:ARG:O	9:NL:156:ARG:NH1	2.39	0.51
9:NN:68:LEU:HB3	9:NN:96:GLY:HA2	1.93	0.51
24:O2:85:ASP:OD1	24:O2:155:TYR:OH	2.23	0.51
17:O9:183:ARG:HG3	30:W5:35:GLU:HB3	1.92	0.51
8:OA:108:TYR:HA	8:OA:112:LYS:HE3	1.92	0.51
9:OB:31:ASP:OD1	9:OB:35:THR:N	2.42	0.51
9:OB:318:ARG:HB2	9:OB:364:SER:HB2	1.92	0.51
9:OF:406:MET:HE1	9:OF:410:GLU:HG2	1.93	0.51
8:OI:151:SER:HA	8:OI:193:THR:HG21	1.93	0.51
9:OJ:134:GLN:NE2	9:OJ:165:ASN:O	2.43	0.51
9:ON:299:MET:HE3	36:Y5:205:ARG:NH2	2.20	0.51
9:ON:346:PRO:O	8:OO:394:LYS:NZ	2.44	0.51
8:OO:216:ASN:HB3	8:OO:275:VAL:O	2.10	0.51
9:OP:36:TYR:HB2	9:OP:59:TYR:HE2	1.76	0.51
9:OP:54:ALA:HB3	9:OP:58:LYS:HB3	1.93	0.51
9:OP:327:ASP:O	9:OP:330:MET:HB3	2.11	0.51
8:PI:297:GLU:O	8:PI:301:GLN:NE2	2.35	0.51
8:PK:75:VAL:HG12	8:PK:79:ARG:HE	1.75	0.51
8:PM:22:GLU:OE1	8:PM:22:GLU:HA	2.10	0.51
9:PP:69:GLU:HG2	9:PP:71:GLY:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PP:271:ALA:HB1	9:PP:289:LEU:HD22	1.93	0.51
28:Q1:51:PHE:CD1	28:Q1:58:ALA:HB1	2.45	0.51
8:QG:388:TRP:H	8:QG:388:TRP:CD1	2.27	0.51
8:QI:288:VAL:O	8:QI:292:THR:HG22	2.09	0.51
8:QI:339:ARG:O	8:QI:339:ARG:NE	2.43	0.51
8:QK:30:ILE:HG13	8:QK:53:PHE:CZ	2.46	0.51
9:QN:10:GLY:O	9:QN:14:ASN:ND2	2.44	0.51
29:R:118:LEU:HA	29:R:121:GLU:HG2	1.92	0.51
9:RJ:427:ASP:OD1	9:RJ:427:ASP:N	2.35	0.51
12:S6:192:LEU:HB2	12:S6:226:ILE:HG21	1.92	0.51
12:S7:403:ARG:O	12:S7:406:ARG:NH1	2.43	0.51
8:SA:324:VAL:HG12	8:SA:326:LYS:H	1.76	0.51
9:SD:54:ALA:HB3	9:SD:58:LYS:HB3	1.93	0.51
8:SE:70:LEU:HB3	8:SE:98:ASP:HA	1.93	0.51
9:SF:7:LEU:HB2	9:SF:135:LEU:HA	1.91	0.51
8:SI:70:LEU:HB3	8:SI:98:ASP:HA	1.93	0.51
8:SK:188:ILE:HG13	8:SK:395:PHE:CD1	2.46	0.51
8:SM:231:ILE:HA	8:SM:234:ILE:HG22	1.93	0.51
9:SN:305:PRO:HA	9:SN:373:ALA:HB2	1.92	0.51
14:T0:230:ARG:HH22	14:T0:235:SER:HB3	1.76	0.51
14:T1:250:SER:HB2	14:T2:368:LEU:HG	1.93	0.51
14:T2:100:THR:HG22	14:T3:356:ARG:HH22	1.74	0.51
14:T2:326:LEU:HD21	14:T2:409:ARG:HD2	1.93	0.51
9:TD:136:THR:HG22	9:TD:167:PHE:HB2	1.91	0.51
8:TE:298:PRO:HG3	8:TE:308:ARG:HE	1.75	0.51
9:TH:8:GLN:HE21	9:TH:14:ASN:HA	1.76	0.51
8:TI:101:ASN:HD22	8:TI:143:GLY:HA2	1.74	0.51
9:TJ:236:VAL:HG13	9:TJ:237:THR:HG23	1.92	0.51
25:U:341:THR:HG21	40:a2:151:PRO:HG2	1.93	0.51
8:UC:271:THR:HB	8:UC:377:MET:HE3	1.93	0.51
9:UN:113:VAL:O	9:UN:117:LEU:HG	2.09	0.51
25:V:369:VAL:HA	40:a3:158:VAL:HB	1.91	0.51
30:V4:257:LYS:HE3	30:V4:296:TRP:HE1	1.76	0.51
8:VG:297:GLU:HG3	8:VG:299:ALA:H	1.76	0.51
9:VH:256:ASN:HD21	8:VI:181:VAL:H	1.58	0.51
8:VI:406:HIS:HA	8:VI:409:VAL:HG22	1.91	0.51
8:VK:132:LEU:O	8:VK:164:LYS:NZ	2.35	0.51
8:VK:345:ASP:N	8:VK:345:ASP:OD1	2.42	0.51
9:WD:165:ASN:HB3	9:WD:200:TYR:CE2	2.44	0.51
35:XB:178:PRO:HB2	35:XB:180:GLU:OE2	2.10	0.51
35:XF:146:THR:OG1	35:XF:147:ASN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:a:373:ARG:NH1	39:a:373:ARG:O	2.44	0.51
41:b2:170:LYS:NZ	41:b2:469:HIS:O	2.44	0.51
41:b4:391:GLU:HB3	41:b4:395:ARG:HH21	1.76	0.51
39:c:428:VAL:O	39:c:432:GLU:HG2	2.11	0.51
42:f:525:LYS:HA	42:f:542:GLY:H	1.76	0.51
44:h2:58:MET:HE3	44:h2:60:TRP:HE1	1.76	0.51
43:i:218:ILE:HG21	43:i:227:LYS:HE3	1.93	0.51
4:j1:118:LYS:NZ	4:j1:222:ASN:OD1	2.33	0.51
1:0:103:LYS:HZ1	4:j1:39:LEU:HG	1.76	0.51
2:1:440:TYR:OH	9:HB:57:GLY:N	2.41	0.51
7:A1:95:LYS:NZ	7:A1:99:GLU:OE2	2.43	0.51
8:AE:81:GLY:HA2	33:X4:184:ILE:HD11	1.92	0.51
8:AI:347:CYS:HA	9:AJ:388:MET:HE1	1.91	0.51
11:B2:23:LEU:HD11	25:V:70:PRO:HA	1.91	0.51
11:B4:20:ASN:OD1	11:B4:21:SER:N	2.44	0.51
9:BD:173:PRO:HG3	9:BD:380:ARG:HG2	1.91	0.51
8:BG:71:GLU:HB3	8:BG:98:ASP:HB3	1.93	0.51
9:BL:364:SER:OG	9:BL:365:ALA:N	2.44	0.51
9:BN:372:THR:HG21	9:BN:426:GLN:HB2	1.92	0.51
12:C0:89:THR:OG1	17:O8:183:ARG:HG3	2.11	0.51
9:CB:216:LYS:HD2	22:M1:191:ARG:HE	1.76	0.51
9:CD:156:ARG:NH1	9:CD:197:ASP:OD1	2.42	0.51
8:CE:326:LYS:NZ	9:CF:220:PRO:O	2.43	0.51
8:CM:139:HIS:O	8:CM:170:ALA:HA	2.11	0.51
8:CQ:223:THR:HG23	8:CQ:225:THR:H	1.74	0.51
9:DB:105:HIS:CE1	9:DB:150:LEU:HD13	2.46	0.51
9:DB:285:THR:C	9:DB:363:MET:HE1	2.35	0.51
8:DG:60:LYS:NZ	8:EE:282:TYR:O	2.30	0.51
8:DK:88:HIS:CE1	8:DK:90:GLU:HB3	2.46	0.51
8:DM:387:ALA:HA	8:DM:390:ARG:HE	1.74	0.51
8:DQ:88:HIS:CD2	8:EO:283:HIS:HB2	2.45	0.51
8:DQ:302:MET:SD	8:DQ:302:MET:N	2.74	0.51
8:EA:75:VAL:HG12	8:EA:79:ARG:HE	1.74	0.51
8:EC:169:PHE:HA	8:EC:202:PHE:HB2	1.91	0.51
8:EE:167:LEU:HD23	8:EE:202:PHE:HE2	1.76	0.51
8:EE:311:LYS:HE3	8:EE:344:VAL:HG12	1.93	0.51
9:EJ:54:ALA:O	17:Z4:227:ARG:NH2	2.44	0.51
9:EN:256:ASN:HD22	8:EO:182:VAL:HG22	1.74	0.51
8:FA:325:PRO:HG2	9:FB:222:TYR:HD1	1.74	0.51
8:GA:133:GLN:HB3	8:GA:252:LEU:HD21	1.91	0.51
9:GF:316:VAL:HB	9:GF:366:THR:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GH:146:GLY:O	9:GH:149:THR:OG1	2.27	0.51
9:GL:114:ASP:N	9:GL:114:ASP:OD1	2.43	0.51
9:GL:377:LEU:HD13	9:GL:380:ARG:HH22	1.76	0.51
8:GM:311:LYS:H	8:GM:382:THR:HG22	1.75	0.51
9:GN:44:LEU:HG	9:GN:47:ILE:HD12	1.91	0.51
8:GO:311:LYS:H	8:GO:382:THR:HG22	1.75	0.51
8:HA:399:TYR:O	8:HA:402:ARG:NH1	2.42	0.51
9:HD:150:LEU:HG	9:HD:154:LYS:HE2	1.92	0.51
9:HD:215:LEU:HD21	9:HD:273:LEU:HD12	1.91	0.51
9:HH:172:SER:OG	9:HH:205:GLU:OE1	2.24	0.51
9:HJ:166:THR:HG23	9:HJ:199:THR:HG23	1.92	0.51
8:HK:88:HIS:CD2	8:IK:283:HIS:HB2	2.46	0.51
9:HN:345:ILE:HG23	8:HO:398:MET:HE1	1.92	0.51
8:IA:107:HIS:HA	8:IA:152:LEU:HD23	1.91	0.51
9:ID:226:ASN:OD1	52:ID:502:GDP:N1	2.31	0.51
9:IF:130:LEU:HB2	9:IF:162:ARG:NE	2.25	0.51
8:IG:209:ILE:HA	8:IG:212:ILE:HG22	1.91	0.51
9:IJ:6:HIS:HD2	9:IJ:21:TRP:HE1	1.58	0.51
9:IL:423:GLN:NE2	9:IL:427:ASP:OD2	2.44	0.51
8:IM:258:ASN:HD21	9:IN:178:THR:HG23	1.74	0.51
19:J2:38:VAL:O	19:J2:41:ILE:HG22	2.11	0.51
19:J4:235:LEU:HD11	19:J4:237:HIS:CE1	2.46	0.51
9:JB:6:HIS:CE1	9:JB:8:GLN:HE21	2.29	0.51
9:JF:286:VAL:HG12	9:JF:329:GLN:NE2	2.25	0.51
9:JH:165:ASN:HB3	9:JH:200:TYR:HE1	1.76	0.51
9:JJ:258:VAL:HB	8:JK:407:TRP:HZ2	1.75	0.51
9:JJ:380:ARG:NH2	9:JJ:381:ILE:HG12	2.25	0.51
9:JL:198:GLU:N	9:JL:198:GLU:OE2	2.44	0.51
8:JO:93:ILE:HD11	8:JO:121:ARG:HG3	1.93	0.51
8:JQ:124:LYS:O	8:JQ:128:LEU:HD22	2.11	0.51
8:KE:252:LEU:HD13	8:KE:255:PHE:HE1	1.76	0.51
9:KN:1:MET:N	9:KN:128:ASP:OD1	2.43	0.51
9:KN:372:THR:HG21	9:KN:426:GLN:HB2	1.92	0.51
9:LJ:309:ARG:NH1	44:h3:64:MET:SD	2.84	0.51
8:LM:107:HIS:HA	8:LM:152:LEU:HD23	1.93	0.51
22:M3:23:MET:HE3	8:MK:79:ARG:HB3	1.91	0.51
9:MF:119:VAL:HA	9:MF:122:LYS:HZ3	1.76	0.51
9:ML:53:GLU:OE1	33:X5:1:MET:HE1	2.11	0.51
15:N2:75:PRO:O	15:N2:235:ARG:NH2	2.44	0.51
8:NA:322:ASP:O	8:NA:373:ARG:NH1	2.43	0.51
9:NF:62:ARG:NH2	9:NF:127:CYS:SG	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NG:147:SER:O	8:NG:151:SER:OG	2.18	0.51
9:NJ:122:LYS:NZ	9:NJ:125:GLU:OE2	2.37	0.51
9:NL:4:ILE:HB	9:NL:50:TYR:HE1	1.75	0.51
8:NM:291:ILE:CD1	8:NM:373:ARG:HH21	2.24	0.51
9:NN:309:ARG:HG3	9:NN:426:GLN:HG3	1.92	0.51
8:NO:360:PRO:O	8:NO:370:LYS:NZ	2.35	0.51
8:OA:3:GLU:HG3	8:OA:64:ARG:NH1	2.26	0.51
8:OA:183:GLU:HA	8:OA:186:ASN:HD22	1.75	0.51
8:OI:101:ASN:HA	8:OI:144:GLY:H	1.75	0.51
9:OJ:4:ILE:HB	9:OJ:50:TYR:HE1	1.74	0.51
8:PC:269:LEU:HD22	8:PC:303:VAL:HG21	1.93	0.51
9:PD:184:ASN:OD1	9:PD:398:TYR:OH	2.28	0.51
8:PG:298:PRO:HA	8:PG:301:GLN:HG2	1.93	0.51
8:PI:102:ASN:HB3	8:PI:105:ARG:HB2	1.91	0.51
8:PK:133:GLN:HE21	8:PK:252:LEU:HB3	1.75	0.51
8:PM:139:HIS:O	8:PM:170:ALA:HA	2.10	0.51
28:Q1:16:GLY:HA2	12:S4:390:SER:HB2	1.92	0.51
9:QJ:330:MET:HB3	9:QJ:349:VAL:HG11	1.93	0.51
11:R0:110:LEU:O	11:R0:114:ILE:HG22	2.11	0.51
9:RD:31:ASP:OD1	9:RD:35:THR:N	2.43	0.51
9:RD:371:SER:O	9:RD:422:TYR:OH	2.25	0.51
8:RE:6:SER:O	8:RE:66:VAL:N	2.41	0.51
9:RF:262:ARG:HH21	9:RF:418:LEU:HD13	1.75	0.51
9:RH:198:GLU:HB2	9:RH:266:PHE:HE2	1.76	0.51
9:RH:251:ARG:HA	9:RH:254:ALA:HB3	1.92	0.51
9:RH:323:MET:HE3	9:RH:323:MET:HA	1.92	0.51
9:RH:335:ASN:OD1	9:RH:336:LYS:HD2	2.10	0.51
8:RO:17:GLY:O	8:RO:21:TRP:HB2	2.10	0.51
8:RO:114:ILE:HG13	8:RO:118:VAL:HG23	1.93	0.51
12:S0:145:ASN:HB2	12:S1:419:ARG:HH21	1.76	0.51
12:S2:413:ARG:HH21	12:S7:71:ARG:HD3	1.74	0.51
12:S8:406:ARG:NH2	12:S8:412:CYS:O	2.43	0.51
8:SA:136:LEU:HB3	8:SA:138:PHE:HE1	1.76	0.51
9:SB:266:PHE:C	9:SB:267:MET:HE2	2.35	0.51
8:SC:124:LYS:NZ	8:TC:297:GLU:OE2	2.37	0.51
9:SD:249:ASP:H	9:SD:252:LYS:HB3	1.75	0.51
14:T4:102:LYS:NZ	14:T5:373:ALA:HA	2.26	0.51
14:T4:110:MET:HG2	14:T4:222:TYR:HD2	1.75	0.51
30:U6:147:SER:OG	30:V2:133:GLN:NE2	2.43	0.51
30:U6:183:GLU:HG3	30:U6:482:LEU:C	2.36	0.51
30:U6:306:HIS:HA	30:U6:309:ASN:HD21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UA:53:PHE:HB3	8:UA:61:HIS:HB3	1.92	0.51
9:UL:252:LYS:NZ	50:UM:501:GTP:O3G	2.40	0.51
9:UN:54:ALA:HB3	9:UN:58:LYS:HB3	1.93	0.51
30:V1:240:ILE:HG22	30:V1:241:ARG:HD2	1.91	0.51
30:V3:201:ARG:HG2	30:V3:461:THR:HG23	1.93	0.51
30:V4:328:LEU:O	30:V4:332:MET:HG2	2.11	0.51
30:V5:433:ARG:O	30:V5:437:THR:HG23	2.11	0.51
8:VA:154:MET:HE1	8:VA:197:HIS:HB2	1.93	0.51
9:VD:111:GLU:OE1	9:VD:111:GLU:N	2.44	0.51
8:VE:318:LEU:HD12	8:VE:318:LEU:N	2.25	0.51
31:W:658:ILE:HG21	31:W:688:ILE:HD12	1.91	0.51
9:WD:31:ASP:OD1	9:WD:35:THR:N	2.44	0.51
8:WK:345:ASP:N	8:WK:345:ASP:OD1	2.36	0.51
34:X6:14:LEU:HD22	34:X6:40:ILE:HD12	1.93	0.51
34:X6:171:TYR:HD1	34:X6:182:VAL:HA	1.74	0.51
35:XC:81:LYS:HD3	35:XC:161:ARG:HE	1.76	0.51
35:XD:126:ASP:OD1	35:XD:126:ASP:N	2.44	0.51
37:YC:146:ARG:NH1	37:YC:203:GLU:O	2.44	0.51
41:b4:371:MET:HE3	41:b4:425:HIS:CE1	2.46	0.51
41:b5:144:GLN:HG2	41:b5:234:LEU:HG	1.93	0.51
42:f:35:ASP:O	42:f:36:GLN:HG2	2.10	0.51
42:f:545:SER:OG	42:f:566:ASP:OD1	2.29	0.51
42:g:554:THR:HG22	42:g:595:ILE:HG21	1.91	0.51
4:j1:295:LEU:HD21	4:j1:321:LEU:HD11	1.93	0.51
47:o:59:LEU:H	47:o:59:LEU:HD23	1.74	0.51
2:1:416:VAL:O	2:1:420:VAL:HG12	2.11	0.51
3:3:126:LYS:HA	3:3:129:LYS:HG3	1.92	0.51
6:A:23:VAL:HG21	8:KC:337:THR:HG21	1.91	0.51
8:AA:320:ARG:HD3	8:AA:360:PRO:HG3	1.92	0.51
9:AB:256:ASN:HD22	8:AC:182:VAL:HG22	1.76	0.51
9:AB:324:LYS:HA	8:AC:210:TYR:HE1	1.76	0.51
8:AE:402:ARG:HD3	37:YB:234:THR:HG22	1.91	0.51
8:AG:172:TYR:CD1	8:AG:173:PRO:HD2	2.45	0.51
9:AN:346:PRO:HD3	8:AO:397:LEU:HD11	1.92	0.51
11:B3:182:THR:OG1	11:B4:328:GLU:OE2	2.28	0.51
9:BB:248:ALA:HA	9:BB:252:LYS:HD2	1.91	0.51
9:BB:305:PRO:HA	9:BB:373:ALA:HB2	1.93	0.51
8:BG:88:HIS:CE1	8:BG:90:GLU:HB3	2.44	0.51
8:BK:8:HIS:HB2	8:BK:67:PHE:HD1	1.76	0.51
8:BO:122:ILE:HD13	8:BO:157:LEU:HD11	1.93	0.51
12:C0:100:TYR:HE1	12:C0:104:LEU:HD22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CB:113:VAL:HG11	9:CB:150:LEU:HD23	1.93	0.51
8:CE:107:HIS:HA	8:CE:152:LEU:HD23	1.93	0.51
8:CG:360:PRO:HG3	8:CG:374:ALA:HB2	1.92	0.51
9:CJ:404:ASP:OD1	9:CJ:404:ASP:N	2.42	0.51
8:CK:223:THR:HG22	8:CK:224:TYR:H	1.76	0.51
8:CQ:328:VAL:O	8:CQ:332:ILE:HD12	2.10	0.51
14:D0:25:LYS:NZ	12:S3:78:SER:HA	2.26	0.51
14:D1:437:TYR:HD1	14:D1:438:PRO:HD2	1.75	0.51
8:DC:350:GLY:HA2	9:DD:179:VAL:HG12	1.92	0.51
9:DD:55:THR:HG21	9:EB:284:LEU:HG	1.92	0.51
9:DH:114:ASP:N	9:DH:114:ASP:OD1	2.42	0.51
8:DK:166:LYS:N	8:DK:199:ASP:OD2	2.38	0.51
8:DK:345:ASP:N	8:DK:345:ASP:OD1	2.42	0.51
8:EC:72:PRO:HB3	8:EC:94:THR:HG21	1.93	0.51
8:EE:186:ASN:O	8:EE:190:THR:OG1	2.22	0.51
8:EG:107:HIS:HA	8:EG:152:LEU:HD23	1.93	0.51
8:EI:56:THR:OG1	8:EI:60:LYS:O	2.26	0.51
8:EO:138:PHE:CD2	8:EO:169:PHE:HB2	2.45	0.51
8:EO:318:LEU:HB2	8:EO:376:CYS:HB3	1.92	0.51
15:F:131:LEU:HD11	15:F:162:MET:SD	2.51	0.51
15:F:176:SER:HG	15:F:181:LEU:N	2.09	0.51
8:FC:135:PHE:HE2	8:FC:161:TYR:HD2	1.58	0.51
9:FD:267:MET:SD	9:FD:301:ALA:HB3	2.51	0.51
8:FE:4:CYS:HB2	8:FE:52:PHE:HE1	1.74	0.51
9:FH:285:THR:HB	9:FH:287:PRO:HD2	1.93	0.51
9:FJ:124:ALA:HA	9:FJ:130:LEU:HD11	1.91	0.51
8:FK:320:ARG:HD3	8:FK:360:PRO:HG3	1.92	0.51
9:GB:285:THR:HB	9:GB:287:PRO:HD2	1.93	0.51
8:GE:252:LEU:HA	8:GE:255:PHE:HE2	1.75	0.51
8:GM:345:ASP:N	8:GM:345:ASP:OD1	2.43	0.51
8:GO:152:LEU:HD21	8:GO:156:ARG:HH21	1.76	0.51
8:HC:386:GLU:O	8:HC:390:ARG:HG3	2.11	0.51
8:HC:431:ASP:O	8:HC:435:VAL:HG23	2.11	0.51
9:HL:273:LEU:O	9:HL:292:GLN:NE2	2.43	0.51
9:HN:130:LEU:O	9:HN:162:ARG:NH2	2.41	0.51
9:IB:268:PRO:HG2	9:IB:300:MET:HE2	1.93	0.51
9:ID:170:VAL:HG11	9:ID:377:LEU:HD21	1.92	0.51
9:ID:309:ARG:NH1	9:ID:339:SER:O	2.44	0.51
9:IF:248:ALA:HA	9:IF:252:LYS:HD3	1.93	0.51
8:IG:140:SER:HB3	8:IG:171:ILE:HB	1.93	0.51
8:IG:259:LEU:O	8:IG:380:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:II:107:HIS:HA	8:II:152:LEU:HD23	1.93	0.51
9:IJ:344:TRP:CG	8:IK:401:LYS:HZ2	2.27	0.51
9:IL:86:ARG:HG3	9:IL:88:ASP:H	1.76	0.51
9:IN:139:LEU:HA	9:IN:145:SER:HB3	1.93	0.51
19:J1:186:ARG:HG3	19:J1:190:LEU:HD21	1.93	0.51
19:J1:254:GLU:OE2	19:J1:257:ARG:NH1	2.44	0.51
9:JB:65:LEU:HD11	9:JB:76:VAL:HG11	1.92	0.51
8:JC:399:TYR:O	8:JC:402:ARG:NH1	2.43	0.51
9:JD:256:ASN:HD21	8:JE:181:VAL:HG22	1.76	0.51
8:JG:31:GLN:HG2	8:JG:33:ASP:H	1.76	0.51
8:JI:12:ALA:O	8:JI:16:ILE:HG13	2.10	0.51
9:JJ:69:GLU:HG2	9:JJ:71:GLY:H	1.76	0.51
8:JQ:70:LEU:HB3	8:JQ:98:ASP:HA	1.93	0.51
8:KA:151:SER:HA	8:KA:193:THR:HG21	1.92	0.51
8:KC:345:ASP:N	8:KC:345:ASP:OD1	2.37	0.51
9:KD:221:THR:N	9:KD:224:ASP:OD2	2.44	0.51
9:KF:245:GLN:O	8:KG:11:GLN:NE2	2.44	0.51
8:KK:284:GLU:OE1	8:KK:286:LEU:HD22	2.11	0.51
8:KM:345:ASP:OD1	8:KM:345:ASP:N	2.42	0.51
9:KN:325:GLU:OE2	9:KN:325:GLU:N	2.36	0.51
8:LC:296:PHE:CZ	8:LC:377:MET:HE1	2.46	0.51
8:LE:223:THR:OG1	8:LE:224:TYR:N	2.43	0.51
9:LF:213:ARG:HD2	9:LF:297:LYS:HD3	1.91	0.51
9:LJ:130:LEU:O	9:LJ:162:ARG:NH1	2.41	0.51
8:LK:241:SER:OG	8:LK:250:VAL:O	2.20	0.51
8:LM:79:ARG:NH2	8:LM:94:THR:OG1	2.43	0.51
22:M4:159:LYS:HE2	27:P6:68:TYR:HE2	1.76	0.51
8:MG:66:VAL:HG22	8:MG:121:ARG:NH2	2.25	0.51
9:MH:299:MET:HE1	9:MH:367:PHE:CE2	2.46	0.51
8:MI:326:LYS:HG3	9:MJ:212:PHE:HZ	1.76	0.51
8:MK:36:MET:HG2	8:MK:61:HIS:NE2	2.26	0.51
8:MK:201:ALA:O	8:MK:268:PRO:HD2	2.11	0.51
8:MM:96:LYS:HZ3	33:X5:7:LEU:HD12	1.74	0.51
9:MP:90:PHE:O	31:Z:33:ARG:NH2	2.44	0.51
9:ND:44:LEU:HD11	9:ND:47:ILE:HD12	1.92	0.51
8:NM:54:SER:N	8:NM:62:VAL:O	2.43	0.51
9:NP:221:THR:N	9:NP:224:ASP:OD2	2.43	0.51
24:O4:94:VAL:HG22	24:O4:99:GLY:HA3	1.93	0.51
8:OA:311:LYS:H	8:OA:382:THR:HG22	1.75	0.51
8:OE:34:GLY:HA3	8:OE:60:LYS:HE2	1.93	0.51
8:OK:133:GLN:HG3	8:OK:252:LEU:HD23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OL:31:ASP:OD1	9:OL:35:THR:N	2.44	0.51
8:OO:191:THR:HA	8:OO:194:THR:HG22	1.93	0.51
9:OP:375:GLN:OE1	9:OP:379:LYS:NZ	2.43	0.51
27:P4:15:ASP:N	27:P4:15:ASP:OD1	2.34	0.51
9:PF:239:CYS:SG	9:PF:248:ALA:N	2.83	0.51
28:Q1:10:ARG:CZ	28:Q1:14:PRO:HD2	2.41	0.51
9:QB:265:PHE:HB2	9:QB:374:ILE:HD12	1.93	0.51
9:QB:271:ALA:HB2	9:QB:365:ALA:HB3	1.93	0.51
9:QB:324:LYS:HB3	8:QC:221:ARG:NH2	2.26	0.51
8:QG:200:CYS:SG	8:QG:201:ALA:N	2.84	0.51
8:QI:102:ASN:HB3	8:QI:105:ARG:HB2	1.93	0.51
9:QN:285:THR:HB	9:QN:287:PRO:HD2	1.93	0.51
11:R1:376:ASP:O	11:R1:380:LYS:N	2.41	0.51
11:R4:413:ARG:HH21	11:R4:417:ARG:NH2	2.06	0.51
8:RC:172:TYR:N	8:RC:204:VAL:O	2.37	0.51
8:RM:30:ILE:HG13	8:RM:53:PHE:CZ	2.46	0.51
8:RO:330:ALA:O	8:RO:334:THR:HG23	2.10	0.51
9:RP:274:THR:HB	9:RP:278:SER:HB2	1.93	0.51
29:S:313:ARG:HA	29:S:316:LYS:HD2	1.91	0.51
12:S3:394:LYS:HD3	12:S3:394:LYS:O	2.10	0.51
12:S7:133:GLN:HG2	12:S7:137:LYS:HE3	1.92	0.51
12:S7:195:SER:OG	12:S7:222:GLU:OE2	2.27	0.51
12:S9:174:LEU:HA	12:S9:177:ILE:HG22	1.93	0.51
8:SC:5:ILE:HD13	8:SC:125:LEU:HB3	1.91	0.51
9:SJ:8:GLN:HE21	9:SJ:14:ASN:HA	1.75	0.51
9:SJ:173:PRO:HG3	9:SJ:380:ARG:HE	1.75	0.51
8:SK:413:MET:HE3	8:SK:414:GLU:N	2.25	0.51
9:SL:1:MET:N	9:SL:3:GLU:OE1	2.39	0.51
8:SM:85:GLN:O	8:TM:283:HIS:NE2	2.28	0.51
14:T2:102:LYS:NZ	14:T3:376:ARG:HE	2.09	0.51
14:T2:230:ARG:HE	30:U2:479:THR:HG21	1.76	0.51
14:T3:201:ILE:HG23	14:T3:205:ARG:HE	1.76	0.51
9:TD:118:ASP:OD1	9:TD:121:ARG:NH2	2.37	0.51
9:TJ:45:GLU:OE2	9:TJ:46:ARG:NH2	2.43	0.51
8:TK:288:VAL:O	8:TK:292:THR:HG22	2.11	0.51
30:U0:389:LEU:HB2	30:U0:423:ILE:HG21	1.93	0.51
8:UA:71:GLU:HG2	8:UA:98:ASP:HB3	1.92	0.51
8:UE:345:ASP:N	8:UE:345:ASP:OD1	2.43	0.51
8:UI:230:LEU:O	8:UI:234:ILE:HG12	2.11	0.51
8:UK:152:LEU:O	8:UK:156:ARG:HG2	2.11	0.51
25:V:128:ASP:OD1	25:V:151:ARG:NH2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:V:317:ASP:OD1	25:V:317:ASP:N	2.44	0.51
30:V3:402:ARG:CZ	30:V3:408:CYS:H	2.23	0.51
30:V4:193:GLU:O	30:V4:197:ASN:ND2	2.44	0.51
8:VC:107:HIS:HA	8:VC:152:LEU:HD23	1.92	0.51
9:VF:198:GLU:HB3	9:VF:266:PHE:HE2	1.75	0.51
9:VF:286:VAL:HG11	9:VF:326:VAL:HG12	1.92	0.51
8:VG:245:ASP:HA	8:VG:249:ASN:HD21	1.76	0.51
8:VK:282:TYR:HB3	39:b:421:ARG:HH12	1.75	0.51
9:VL:118:ASP:OD1	9:VL:121:ARG:NH2	2.37	0.51
8:VM:102:ASN:HB3	8:VM:105:ARG:HB2	1.91	0.51
8:WA:358:GLN:NE2	8:WA:359:PRO:O	2.40	0.51
8:WG:108:TYR:HE2	8:WG:413:MET:HE3	1.76	0.51
8:WI:345:ASP:N	8:WI:345:ASP:OD1	2.43	0.51
33:X5:6:PRO:HB3	48:s:88:ASN:HB3	1.92	0.51
31:Y:399:GLU:H	31:Y:399:GLU:CD	2.19	0.51
31:Y:418:PHE:CE1	31:Y:422:MET:HG3	2.45	0.51
31:Y:552:LEU:HD21	31:Y:586:LEU:HD21	1.91	0.51
36:Y1:109:GLU:CD	36:Y1:110:LYS:HG3	2.35	0.51
40:a1:124:THR:HG21	40:a1:132:LYS:HZ1	1.75	0.51
41:b2:208:SER:O	41:b2:212:LYS:NZ	2.43	0.51
41:b5:465:LEU:HA	41:b5:468:ARG:HD2	1.93	0.51
44:h2:126:ARG:HB3	44:h2:127:TYR:CD1	2.45	0.51
43:i:251:TYR:CD1	47:o:41:ILE:HG21	2.45	0.51
46:i4:1378:GLU:O	46:i4:1382:LEU:HG	2.11	0.51
45:l:69:GLN:N	45:l:69:GLN:OE1	2.44	0.51
2:1:499:ILE:HD12	4:5:354:HIS:HD1	1.76	0.51
3:3:368:LYS:HA	3:3:371:LYS:CD	2.41	0.51
3:4:404:ARG:HG2	3:4:408:LYS:NZ	2.26	0.51
9:AB:10:GLY:O	9:AB:14:ASN:ND2	2.44	0.51
8:AE:288:VAL:O	8:AE:292:THR:HG22	2.11	0.51
9:AH:141:GLY:O	9:AH:184:ASN:ND2	2.39	0.51
9:AL:198:GLU:HB2	9:AL:266:PHE:HE2	1.76	0.51
10:B:105:LEU:O	10:B:109:LYS:HG2	2.10	0.51
11:B2:198:ASN:HD21	28:Q2:141:ASP:HA	1.75	0.51
8:BC:269:LEU:HD21	8:BC:384:ILE:HD13	1.93	0.51
9:BF:198:GLU:HA	9:BF:264:HIS:HB2	1.93	0.51
12:C1:364:HIS:O	12:C1:368:THR:HG23	2.11	0.51
8:CG:287:SER:N	8:CG:290:GLU:OE1	2.42	0.51
9:CH:67:ASP:OD1	9:CH:68:LEU:N	2.43	0.51
8:CI:107:HIS:HA	8:CI:152:LEU:HD23	1.93	0.51
9:CJ:37:HIS:HB2	40:a3:145:LYS:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:305:PRO:HA	9:CN:373:ALA:HB2	1.93	0.51
9:CP:5:VAL:HG22	9:CP:123:GLU:OE1	2.11	0.51
9:CP:165:ASN:OD1	9:CP:165:ASN:N	2.43	0.51
14:D3:78:ARG:NH1	14:D4:328:GLU:OE1	2.43	0.51
14:D3:159:ARG:O	14:D3:162:ARG:NE	2.43	0.51
9:DD:60:VAL:HG21	9:DD:86:ARG:HH21	1.75	0.51
8:DE:168:GLU:OE2	8:DE:198:SER:OG	2.23	0.51
8:DG:186:ASN:O	8:DG:190:THR:OG1	2.24	0.51
9:DH:183:TYR:CZ	9:DH:388:MET:HE2	2.45	0.51
8:DI:62:VAL:HG21	8:EG:283:HIS:O	2.11	0.51
8:DK:350:GLY:HA2	9:DL:179:VAL:HG12	1.92	0.51
9:DN:270:PHE:O	9:DN:298:ASN:ND2	2.39	0.51
8:DO:437:VAL:O	9:DP:391:ARG:NH2	2.31	0.51
9:EB:19:LYS:HZ1	9:EB:227:HIS:HB2	1.75	0.51
8:EM:3:GLU:OE2	8:EM:64:ARG:NH2	2.44	0.51
9:EN:208:TYR:CE1	9:EN:225:LEU:HD11	2.46	0.51
9:EN:309:ARG:NH2	9:EN:339:SER:O	2.43	0.51
8:FA:104:ALA:HB1	8:FA:411:GLU:CD	2.36	0.51
8:FE:297:GLU:O	8:FE:301:GLN:NE2	2.38	0.51
9:FH:138:SER:HA	9:FH:169:VAL:HB	1.93	0.51
8:GG:192:HIS:CE1	8:GG:193:THR:HG23	2.46	0.51
8:GM:51:THR:HG21	8:GM:243:ARG:HG2	1.92	0.51
9:HD:146:GLY:O	9:HD:149:THR:OG1	2.25	0.51
8:HE:316:CYS:C	8:HE:317:MET:HE2	2.35	0.51
9:HJ:261:PRO:HG3	8:HK:406:HIS:CD2	2.46	0.51
8:HK:35:GLN:HG2	8:HK:60:LYS:HD3	1.91	0.51
8:IA:367:ASP:OD1	8:IA:367:ASP:N	2.43	0.51
9:IF:398:TYR:O	9:IF:403:MET:HE3	2.11	0.51
9:IJ:207:LEU:HD12	9:IJ:225:LEU:HD23	1.92	0.51
8:IK:60:LYS:NZ	8:IK:61:HIS:O	2.44	0.51
8:IK:284:GLU:N	8:IK:284:GLU:OE1	2.44	0.51
9:IL:198:GLU:HA	9:IL:264:HIS:HB2	1.92	0.51
9:IN:118:ASP:O	9:IN:121:ARG:HG2	2.11	0.51
9:IN:127:CYS:SG	9:IN:130:LEU:HG	2.51	0.51
8:JC:184:PRO:O	8:JC:188:ILE:HG12	2.10	0.51
8:JE:206:ASN:HB3	8:JE:210:TYR:HE2	1.73	0.51
8:JG:211:ASP:HB2	8:JG:215:ARG:CZ	2.41	0.51
8:JG:254:GLU:HG2	9:JH:98:GLY:HA2	1.91	0.51
9:JH:273:LEU:O	9:JH:292:GLN:NE2	2.44	0.51
8:JM:184:PRO:O	8:JM:188:ILE:HG12	2.11	0.51
8:JQ:395:PHE:HD2	8:JQ:422:ARG:HD3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KC:413:MET:C	41:b2:152:ARG:HH22	2.19	0.51
9:KD:402:GLY:O	41:b2:462:ARG:NE	2.44	0.51
9:KH:156:ARG:HG3	9:KH:195:ASN:HB3	1.93	0.51
8:KI:88:HIS:CD2	8:KI:90:GLU:HB3	2.45	0.51
9:KJ:167:PHE:CZ	9:KJ:233:MET:HB3	2.46	0.51
9:KJ:376:GLU:HG2	9:KJ:380:ARG:HH22	1.75	0.51
8:KM:98:ASP:O	8:KM:105:ARG:NH1	2.44	0.51
8:KO:326:LYS:NZ	9:KP:218:THR:O	2.42	0.51
8:LC:70:LEU:HB3	8:LC:98:ASP:HA	1.93	0.51
9:LD:130:LEU:O	9:LD:162:ARG:NH1	2.37	0.51
9:LJ:48:ASN:O	9:LJ:62:ARG:NH2	2.43	0.51
9:LP:83:GLN:HE22	25:O6:52:LEU:HD11	1.76	0.51
22:M3:25:GLY:O	22:M3:27:LYS:NZ	2.36	0.51
22:M4:144:PRO:HG2	22:M4:146:ARG:HH22	1.75	0.51
9:MH:5:VAL:HG22	9:MH:62:ARG:HD2	1.92	0.51
9:ML:164:MET:N	9:ML:197:ASP:OD1	2.37	0.51
8:NE:311:LYS:H	8:NE:382:THR:HG22	1.74	0.51
9:NH:131:GLN:CD	9:NH:251:ARG:HH21	2.19	0.51
8:NI:316:CYS:HB2	8:NI:378:LEU:HB2	1.93	0.51
9:NJ:26:ASP:HB3	9:NJ:359:ARG:HH11	1.76	0.51
8:NK:371:VAL:HG12	8:NK:373:ARG:H	1.76	0.51
9:NP:113:VAL:HG11	9:NP:150:LEU:HD23	1.91	0.51
9:NP:234:SER:O	9:NP:238:THR:OG1	2.23	0.51
24:O2:25:THR:HG22	24:O2:26:ALA:H	1.75	0.51
8:OE:259:LEU:HD12	8:OE:260:VAL:HG23	1.93	0.51
9:OJ:101:TRP:HB3	9:OJ:398:TYR:HE2	1.75	0.51
27:P6:134:CYS:HB2	27:P6:152:LEU:HD11	1.93	0.51
8:PC:83:TYR:HB3	8:PC:86:LEU:HD23	1.91	0.51
8:PG:346:TRP:O	9:PH:388:MET:HB2	2.11	0.51
9:PN:247:ASN:O	9:PN:252:LYS:NZ	2.43	0.51
8:QC:124:LYS:O	8:QC:128:LEU:HD22	2.11	0.51
8:QE:117:LEU:O	8:QE:121:ARG:HG2	2.11	0.51
9:QF:51:TYR:HB3	9:QF:59:TYR:HB3	1.91	0.51
8:QI:120:ASP:OD2	8:QI:121:ARG:NH1	2.44	0.51
9:QL:74:ASP:O	9:QL:78:SER:OG	2.24	0.51
8:QM:185:TYR:O	8:QM:189:LEU:HG	2.10	0.51
11:R0:295:GLY:O	11:R0:299:ARG:HG2	2.11	0.51
8:RE:313:MET:HE3	8:RE:313:MET:H	1.75	0.51
9:RH:321:MET:N	9:RH:321:MET:SD	2.84	0.51
9:RH:337:ASN:HB3	9:RH:340:TYR:HD2	1.76	0.51
9:RJ:5:VAL:HG23	9:RJ:130:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RJ:8:GLN:NE2	9:RJ:136:THR:OG1	2.40	0.51
8:RK:169:PHE:HD1	8:RK:202:PHE:HB2	1.76	0.51
9:RN:51:TYR:HD2	9:RN:59:TYR:HB3	1.76	0.51
9:RN:156:ARG:NH1	9:RN:197:ASP:OD1	2.34	0.51
12:S1:192:LEU:HB2	12:S1:226:ILE:HG21	1.92	0.51
12:S5:484:LEU:HB3	14:T5:403:ARG:HH21	1.76	0.51
12:S6:176:ASP:HA	12:S6:179:ARG:CZ	2.41	0.51
8:SC:254:GLU:OE1	9:SD:99:ASN:ND2	2.43	0.51
9:SD:51:TYR:HB3	9:SD:59:TYR:HB3	1.93	0.51
9:SD:224:ASP:OD2	47:p:542:ARG:NH1	2.44	0.51
9:SD:372:THR:HG21	9:SD:426:GLN:HB2	1.92	0.51
9:SJ:130:LEU:HG	9:SJ:162:ARG:HD2	1.93	0.51
9:SJ:228:LEU:O	9:SJ:232:THR:HG23	2.11	0.51
9:SJ:323:MET:HA	9:SJ:326:VAL:HG12	1.93	0.51
9:TB:262:ARG:HE	9:TB:418:LEU:HD13	1.75	0.51
8:TC:370:LYS:H	47:o:165:GLN:NE2	2.05	0.51
8:TK:239:THR:OG1	8:TK:243:ARG:NH1	2.44	0.51
8:TK:324:VAL:HG12	8:TK:326:LYS:H	1.74	0.51
8:TM:123:ARG:NH2	8:TM:127:ASP:OD1	2.42	0.51
30:U1:408:CYS:SG	30:U2:145:ARG:NH2	2.70	0.51
30:U8:392:ALA:O	30:U8:416:LEU:HD21	2.09	0.51
30:U8:424:ASP:O	30:U8:428:GLN:HG2	2.10	0.51
9:UD:5:VAL:HB	9:UD:133:PHE:HD1	1.76	0.51
9:UF:155:ILE:HG23	9:UF:159:TYR:HD2	1.76	0.51
9:UH:313:VAL:HG13	9:UH:367:PHE:HE1	1.76	0.51
9:UL:7:LEU:HD23	9:UL:135:LEU:HD22	1.93	0.51
8:UM:154:MET:HE3	8:UM:154:MET:HA	1.93	0.51
30:V1:378:LEU:HA	30:V2:124:MET:HE1	1.93	0.51
30:V4:244:ARG:O	30:V4:244:ARG:NH1	2.41	0.51
8:VA:345:ASP:OD1	8:VA:345:ASP:N	2.44	0.51
9:VB:362:LYS:HZ1	39:a:341:MET:N	2.09	0.51
8:VG:168:GLU:O	8:VG:201:ALA:HA	2.11	0.51
9:VN:45:GLU:OE2	9:VN:46:ARG:NH2	2.44	0.51
9:VN:371:SER:O	9:VN:422:TYR:OH	2.24	0.51
8:VO:7:ILE:O	8:VO:7:ILE:HG22	2.10	0.51
8:WA:186:ASN:O	8:WA:190:THR:OG1	2.23	0.51
9:WB:1:MET:HE1	9:WB:2:ARG:HH21	1.75	0.51
8:WG:287:SER:N	8:WG:290:GLU:OE1	2.39	0.51
8:WO:311:LYS:HE3	8:WO:344:VAL:HG12	1.92	0.51
35:XA:82:ASN:HB3	35:XA:127:ASP:HA	1.93	0.51
35:XD:72:LYS:NZ	35:XD:150:GLU:HB3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XG:2:PHE:O	35:XG:7:GLN:NE2	2.43	0.51
35:XH:109:GLN:HB3	35:XH:122:PRO:HA	1.92	0.51
31:Y:486:VAL:HG11	31:Y:515:ILE:HG23	1.92	0.51
37:YH:57:ARG:NH2	37:YH:102:GLU:OE2	2.39	0.51
31:Z:123:SER:HB2	31:Z:125:LEU:HD12	1.92	0.51
31:Z:551:LYS:HE3	31:Z:593:LYS:HB2	1.92	0.51
41:b5:140:LEU:O	41:b5:144:GLN:HG3	2.11	0.51
43:h:169:GLN:HA	43:h:172:TYR:CD2	2.46	0.51
43:k:157:TYR:HA	43:k:160:LYS:HD2	1.93	0.51
3:3:91:VAL:O	3:3:95:GLU:HG3	2.10	0.51
4:5:226:GLY:O	30:V5:273:THR:HG21	2.11	0.51
5:8:135:LEU:HD11	5:8:137:ALA:HB2	1.92	0.51
7:A3:195:SER:O	11:R2:413:ARG:NH1	2.42	0.51
9:AF:284:LEU:H	9:MF:55:THR:HB	1.76	0.51
8:AG:203:MET:H	8:AG:203:MET:CE	2.24	0.51
8:AO:172:TYR:CD2	8:AO:173:PRO:HD2	2.46	0.51
8:AO:188:ILE:O	8:AO:191:THR:OG1	2.29	0.51
11:B1:53:ILE:HD13	11:B2:310:ASN:ND2	2.26	0.51
11:B5:109:PRO:HD2	11:B5:110:LEU:N	2.20	0.51
11:B5:136:GLU:HB3	11:B5:261:THR:HG22	1.93	0.51
9:BD:309:ARG:NH2	9:BD:339:SER:O	2.44	0.51
8:BE:326:LYS:HD3	9:BF:212:PHE:CE1	2.46	0.51
9:BH:285:THR:HB	9:BH:287:PRO:HD2	1.93	0.51
8:BI:139:HIS:O	8:BI:170:ALA:HA	2.10	0.51
9:BN:118:ASP:HA	9:BN:121:ARG:HG2	1.93	0.51
12:C3:257:ASP:OD2	12:C3:307:ASN:ND2	2.44	0.51
8:CG:264:ARG:NH1	8:CG:431:ASP:OD2	2.44	0.51
8:CM:69:ASP:O	8:CM:94:THR:HA	2.11	0.51
9:CN:166:THR:HG23	9:CN:199:THR:HG23	1.91	0.51
9:CP:214:THR:OG1	9:CP:297:LYS:HE3	2.10	0.51
8:CQ:101:ASN:HD21	8:CQ:180:ALA:HB1	1.76	0.51
9:DJ:44:LEU:HD21	17:L:25:PRO:HD3	1.93	0.51
8:DK:188:ILE:O	8:DK:191:THR:OG1	2.29	0.51
8:DQ:318:LEU:HB2	8:DQ:376:CYS:HB3	1.93	0.51
8:EA:254:GLU:HG2	9:EB:98:GLY:HA2	1.92	0.51
9:EJ:245:GLN:O	8:EK:11:GLN:NE2	2.44	0.51
8:FA:93:ILE:HD13	8:FA:117:LEU:HB3	1.92	0.51
9:FB:345:ILE:HA	8:FC:398:MET:CE	2.40	0.51
8:GE:85:GLN:OE1	8:GE:85:GLN:N	2.36	0.51
8:GG:6:SER:HB3	8:GG:8:HIS:NE2	2.26	0.51
9:GH:231:ALA:HB1	9:GH:270:PHE:HE2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GJ:334:GLN:OE1	9:GJ:348:ASN:N	2.43	0.51
9:GL:60:VAL:HG11	9:HL:281:TYR:HB3	1.92	0.51
9:GL:77:ARG:NH1	9:GL:85:PHE:O	2.43	0.51
9:HB:313:VAL:HG13	9:HB:367:PHE:HE1	1.74	0.51
9:HD:72:THR:O	9:HD:75:SER:OG	2.26	0.51
9:HD:174:LYS:HD2	9:HD:174:LYS:H	1.75	0.51
9:HD:207:LEU:HD22	9:HD:228:LEU:HD23	1.93	0.51
8:HG:172:TYR:N	8:HG:204:VAL:O	2.38	0.51
8:HI:149:PHE:O	8:HI:153:LEU:HB2	2.11	0.51
9:HJ:252:LYS:HE3	8:HK:100:ALA:HA	1.93	0.51
9:HL:156:ARG:NH1	9:HL:197:ASP:OD1	2.37	0.51
9:HL:245:GLN:O	8:HM:11:GLN:NE2	2.44	0.51
9:HP:74:ASP:OD1	9:HP:75:SER:N	2.43	0.51
8:IK:49:PHE:HB2	8:IK:53:PHE:HB2	1.91	0.51
8:IM:97:GLU:HG2	8:IM:105:ARG:HH22	1.76	0.51
8:JE:215:ARG:HG3	8:JE:216:ASN:OD1	2.11	0.51
8:JE:250:VAL:HG13	8:JE:254:GLU:HB2	1.93	0.51
9:JF:7:LEU:N	9:JF:134:GLN:O	2.41	0.51
8:JO:114:ILE:HG22	8:JO:117:LEU:HD21	1.92	0.51
8:JO:123:ARG:NH2	8:JO:160:ASP:OD1	2.44	0.51
13:K3:395:GLU:OE2	29:S:155:GLN:HG3	2.11	0.51
8:KA:438:ASP:N	8:KA:438:ASP:OD1	2.43	0.51
9:KH:146:GLY:O	9:KH:149:THR:OG1	2.28	0.51
9:KL:157:GLU:OE1	9:KL:157:GLU:N	2.44	0.51
9:KL:198:GLU:HB2	9:KL:266:PHE:HE2	1.76	0.51
8:LA:150:ALA:O	8:LA:154:MET:HG2	2.11	0.51
8:LA:338:LYS:HZ3	41:b1:382:LEU:HD12	1.76	0.51
8:LE:2:ARG:HB3	8:LE:242:LEU:HD23	1.92	0.51
9:LF:31:ASP:OD1	9:LF:35:THR:N	2.43	0.51
9:LP:5:VAL:HG22	9:LP:62:ARG:HD2	1.93	0.51
22:M1:164:LEU:HD13	27:P3:81:LEU:HD13	1.92	0.51
9:MB:297:LYS:HE3	9:MB:297:LYS:HA	1.93	0.51
9:MD:284:LEU:HD22	9:MD:362:LYS:HD3	1.92	0.51
8:ME:3:GLU:H	8:ME:133:GLN:HG2	1.76	0.51
8:MG:151:SER:HA	8:MG:193:THR:HG21	1.91	0.51
8:MG:347:CYS:O	45:m:2:ALA:N	2.44	0.51
8:MK:121:ARG:HH21	8:MK:125:LEU:HG	1.75	0.51
9:MN:237:THR:HG22	9:MN:250:LEU:HD21	1.93	0.51
8:MO:68:VAL:HG12	8:MO:93:ILE:HB	1.93	0.51
8:MO:262:TYR:OH	9:MP:391:ARG:O	2.28	0.51
9:ND:322:SER:O	8:NE:221:ARG:NH2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NE:223:THR:OG1	8:NE:224:TYR:N	2.43	0.51
8:NG:129:CYS:HB2	8:NG:132:LEU:HD21	1.91	0.51
9:NH:213:ARG:CZ	9:NH:297:LYS:HD2	2.41	0.51
9:NH:262:ARG:HB3	9:NH:263:LEU:HD12	1.93	0.51
9:NJ:10:GLY:O	9:NJ:14:ASN:N	2.42	0.51
8:NK:66:VAL:HG23	8:NK:91:GLN:HB3	1.93	0.51
9:NL:151:LEU:HA	9:NL:154:LYS:HE2	1.93	0.51
9:NN:210:ILE:O	9:NN:214:THR:OG1	2.28	0.51
9:NN:263:LEU:HD13	9:NN:370:ASN:ND2	2.26	0.51
9:NP:330:MET:SD	9:NP:330:MET:N	2.80	0.51
17:O9:54:SER:HB3	17:O9:57:SER:HB3	1.93	0.51
9:OD:253:LEU:O	9:OD:256:ASN:N	2.39	0.51
9:OD:285:THR:HG23	9:OD:288:GLU:H	1.75	0.51
8:OE:325:PRO:HG2	9:OF:222:TYR:CE2	2.46	0.51
9:OF:104:GLY:O	9:OF:147:MET:HG3	2.10	0.51
8:OK:172:TYR:HD2	8:OK:205:ASP:HB3	1.76	0.51
9:OL:246:LEU:HD22	9:OL:352:ALA:HA	1.93	0.51
9:PB:69:GLU:HG2	9:PB:71:GLY:H	1.75	0.51
9:PB:285:THR:HB	9:PB:287:PRO:HD2	1.92	0.51
9:PJ:290:THR:OG1	9:PJ:329:GLN:OE1	2.20	0.51
8:QI:70:LEU:HD23	8:QI:145:THR:HG23	1.93	0.51
8:QM:141:PHE:HD2	8:QM:172:TYR:HA	1.74	0.51
11:R1:110:LEU:HB2	11:R1:144:ILE:HG21	1.93	0.51
11:R2:85:LEU:HD13	11:R2:233:MET:HE2	1.92	0.51
8:RE:76:ASP:HA	8:RE:79:ARG:HE	1.76	0.51
9:RF:323:MET:HE1	9:RF:353:VAL:HG21	1.92	0.51
8:RI:1:MET:SD	8:RI:2:ARG:N	2.84	0.51
8:RM:132:LEU:O	8:RM:164:LYS:NZ	2.42	0.51
8:RM:233:GLN:NE2	8:RM:272:TYR:CD2	2.79	0.51
8:RO:70:LEU:HB3	8:RO:98:ASP:HA	1.93	0.51
29:S:73:ASP:HA	29:S:76:MET:HE3	1.93	0.51
12:S2:143:THR:HG22	12:S3:399:ARG:HH12	1.76	0.51
12:S3:118:GLU:HA	12:S3:121:ARG:HG3	1.93	0.51
12:S5:161:THR:HG23	14:T4:247:PHE:CZ	2.46	0.51
12:S9:248:ARG:NE	12:S9:248:ARG:O	2.44	0.51
9:SB:302:ALA:HB3	9:SB:377:LEU:HD11	1.93	0.51
8:SC:15:GLN:HG3	8:SC:228:ASN:ND2	2.26	0.51
9:SD:375:GLN:HB3	9:SD:422:TYR:HE1	1.74	0.51
8:SE:268:PRO:HA	8:SE:380:ASN:HA	1.92	0.51
9:SF:311:LEU:HG	9:SF:312:THR:HG23	1.92	0.51
9:SJ:20:PHE:CG	9:SJ:233:MET:HE1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T1:65:HIS:HB3	30:V8:380:ARG:HH11	1.76	0.51
8:TA:372:GLN:OE1	47:o:205:ARG:NH1	2.42	0.51
8:TE:392:ASP:HA	8:TE:422:ARG:NH2	2.26	0.51
9:TF:324:LYS:HG3	8:TG:222:PRO:HD2	1.93	0.51
9:TH:41:ASP:OD2	9:TH:42:LEU:N	2.44	0.51
8:TI:49:PHE:HB2	8:TI:53:PHE:HD2	1.75	0.51
9:TL:27:GLU:OE2	9:TL:318:ARG:NH2	2.44	0.51
9:TL:345:ILE:HA	8:TM:398:MET:HE1	1.93	0.51
30:U0:159:GLU:HA	30:U0:162:ARG:HD2	1.92	0.51
30:U0:253:ASP:HA	30:U0:256:ASP:OD2	2.10	0.51
30:U7:89:ARG:NH2	30:U7:92:PRO:HD3	2.25	0.51
30:U9:222:LEU:HD21	30:U9:332:MET:HG3	1.93	0.51
8:UE:188:ILE:O	8:UE:191:THR:OG1	2.22	0.51
8:UK:33:ASP:OD1	8:UK:34:GLY:N	2.44	0.51
8:UK:311:LYS:H	8:UK:382:THR:HG22	1.75	0.51
8:UM:276:ILE:HD11	8:UM:286:LEU:HD11	1.92	0.51
9:UN:72:THR:O	9:UN:75:SER:OG	2.24	0.51
8:UO:136:LEU:HB2	8:UO:169:PHE:HE2	1.76	0.51
30:V2:272:SER:HA	30:V2:277:ILE:HD11	1.93	0.51
8:VE:21:TRP:HA	8:VE:24:TYR:HD2	1.74	0.51
9:VJ:65:LEU:HD12	9:VJ:89:ASN:OD1	2.11	0.51
9:VJ:263:LEU:HD22	9:VJ:422:TYR:HD2	1.76	0.51
8:VK:317:MET:HE1	8:VK:375:VAL:CG2	2.35	0.51
9:VL:242:PHE:HB3	9:VL:356:ILE:HD12	1.93	0.51
9:VN:100:ASN:HB3	9:VN:103:LYS:HB2	1.92	0.51
9:WB:230:SER:HA	9:WB:233:MET:HB2	1.93	0.51
9:WB:363:MET:HE3	9:WB:364:SER:H	1.75	0.51
8:WC:298:PRO:HA	8:WC:301:GLN:HG2	1.92	0.51
9:WJ:258:VAL:HB	8:WK:407:TRP:HZ2	1.76	0.51
8:WK:223:THR:HG23	8:WK:225:THR:H	1.76	0.51
9:WP:1:MET:SD	9:WP:2:ARG:N	2.84	0.51
34:X8:80:GLU:HG2	34:X8:85:LYS:C	2.35	0.51
31:Y:131:ILE:HG21	31:Y:136:ILE:HD11	1.92	0.51
31:Y:298:ILE:HD12	31:Y:328:VAL:HB	1.92	0.51
31:Y:536:ASN:HD22	31:Y:539:LYS:HZ1	1.58	0.51
31:Z:327:LYS:HE3	31:Z:329:GLU:HA	1.93	0.51
17:Z5:212:LEU:HD12	17:Z5:213:ILE:H	1.76	0.51
40:a2:151:PRO:HA	40:a2:156:TYR:CD2	2.46	0.51
42:f:538:ARG:NH2	42:f:574:TYR:O	2.44	0.51
46:i2:1436:PHE:HB2	46:i2:1492:HIS:HB3	1.93	0.51
2:2:361:PRO:HB2	18:I1:92:PHE:CD2	2.47	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:98:GLN:O	1:7:102:ASN:ND2	2.44	0.51
8:AA:36:MET:HE3	8:AA:36:MET:O	2.11	0.51
9:AH:36:TYR:C	9:AH:37:HIS:HD1	2.18	0.51
8:AK:147:SER:O	8:AK:151:SER:OG	2.27	0.51
8:AK:326:LYS:HG3	8:AK:327:ASP:N	2.26	0.51
9:AN:146:GLY:O	9:AN:149:THR:OG1	2.26	0.51
11:B2:180:MET:CE	28:Q2:132:PRO:HA	2.34	0.51
11:B5:290:ILE:HD11	11:B5:366:LEU:CB	2.38	0.51
11:B5:389:LYS:O	11:B5:393:THR:HG23	2.12	0.51
8:BI:88:HIS:HB3	8:BI:91:GLN:HG3	1.93	0.51
9:BN:114:ASP:N	9:BN:114:ASP:OD1	2.44	0.51
9:BP:164:MET:HE3	9:BP:164:MET:HA	1.92	0.51
9:BP:309:ARG:HG3	9:BP:426:GLN:HG3	1.92	0.51
12:C4:425:TYR:O	12:C4:429:GLU:HG2	2.10	0.51
8:CC:103:TYR:OH	8:CC:192:HIS:HE1	1.93	0.51
8:CE:55:GLU:OE1	8:CE:61:HIS:ND1	2.44	0.51
8:CE:427:ALA:O	8:CE:430:LYS:HG2	2.10	0.51
8:CK:1:MET:HE3	8:CK:2:ARG:HH12	1.74	0.51
9:CL:26:ASP:OD2	31:Y:292:ILE:HG12	2.10	0.51
9:CL:289:LEU:HD11	9:CL:363:MET:HG2	1.93	0.51
9:CN:31:ASP:OD1	9:CN:35:THR:N	2.41	0.51
9:DB:7:LEU:N	9:DB:134:GLN:O	2.41	0.51
9:DB:252:LYS:HG2	8:DC:100:ALA:HA	1.93	0.51
8:DG:82:THR:HG23	17:J:59:MET:HA	1.91	0.51
9:EF:237:THR:HG22	9:EF:250:LEU:HD21	1.93	0.51
9:FB:1:MET:SD	9:FB:2:ARG:N	2.83	0.51
9:FD:233:MET:HE3	9:FD:233:MET:HA	1.93	0.51
9:FD:309:ARG:HG3	9:FD:426:GLN:HG3	1.92	0.51
8:FE:56:THR:HA	8:GE:285:GLN:HB2	1.92	0.51
8:FE:68:VAL:HG12	8:FE:93:ILE:HB	1.92	0.51
9:FJ:245:GLN:O	8:FK:11:GLN:NE2	2.43	0.51
8:FK:148:GLY:O	8:FK:151:SER:OG	2.29	0.51
9:FN:122:LYS:HB2	36:Y2:54:ARG:HH22	1.75	0.51
9:GD:290:THR:HG21	9:GD:329:GLN:HB3	1.93	0.51
8:GI:6:SER:HB3	8:GI:8:HIS:NE2	2.25	0.51
8:GK:230:LEU:HD11	8:GK:368:LEU:HD21	1.92	0.51
8:HC:255:PHE:O	8:HC:259:LEU:HB2	2.11	0.51
8:HM:326:LYS:HD2	9:HN:220:PRO:HD2	1.93	0.51
9:HN:245:GLN:HE22	8:HO:223:THR:HB	1.76	0.51
9:HP:114:ASP:N	9:HP:114:ASP:OD1	2.42	0.51
9:ID:170:VAL:HG21	9:ID:201:CYS:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IE:257:THR:HA	9:IF:397:TRP:CH2	2.46	0.51
8:IG:88:HIS:NE2	9:JH:277:GLY:O	2.44	0.51
9:IH:237:THR:OG1	9:IH:241:ARG:NH1	2.43	0.51
9:IJ:267:MET:HG3	9:IJ:301:ALA:HB3	1.93	0.51
9:IL:248:ALA:HA	9:IL:252:LYS:HD2	1.92	0.51
8:IM:70:LEU:HB3	8:IM:98:ASP:HA	1.93	0.51
9:IN:297:LYS:HE3	36:Y1:56:ALA:H	1.77	0.51
8:IO:191:THR:O	8:IO:195:LEU:HG	2.11	0.51
19:J4:178:PRO:HB2	19:J4:181:ASP:HB3	1.93	0.51
19:J4:281:THR:OG1	19:J4:282:HIS:N	2.44	0.51
19:J5:123:MET:SD	19:J5:142:ARG:HG2	2.51	0.51
19:J5:139:MET:HE3	9:KP:262:ARG:NH1	2.25	0.51
9:JJ:337:ASN:HB3	9:JJ:340:TYR:HD2	1.76	0.51
8:JK:103:TYR:CD1	8:JK:189:LEU:HB2	2.45	0.51
9:JN:22:GLU:O	9:JN:25:SER:OG	2.29	0.51
9:KF:121:ARG:O	9:KF:125:GLU:HG2	2.11	0.51
8:KG:116:ASP:N	8:KG:116:ASP:OD1	2.44	0.51
8:KK:58:ALA:HB2	29:S:214:LYS:HG3	1.92	0.51
21:L1:155:VAL:HG12	8:VG:45:GLY:HA2	1.93	0.51
8:LA:415:GLU:HB2	43:h:75:LYS:HG3	1.92	0.51
8:LM:91:GLN:HA	8:LM:121:ARG:HD3	1.92	0.51
8:LM:147:SER:HG	8:LM:190:THR:HG1	1.54	0.51
8:MA:216:ASN:HD22	8:MA:275:VAL:HG13	1.75	0.51
8:MA:392:ASP:O	8:MA:422:ARG:NH2	2.44	0.51
9:MD:92:PHE:O	31:W:33:ARG:NH1	2.22	0.51
9:MH:135:LEU:HD23	9:MH:152:ILE:HD11	1.92	0.51
8:MM:102:ASN:OD1	8:MM:105:ARG:N	2.32	0.51
9:MN:318:ARG:HB3	9:MN:318:ARG:HH11	1.76	0.51
8:MO:180:ALA:HB3	8:MO:183:GLU:HB3	1.92	0.51
9:NF:31:ASP:HB3	9:NF:32:PRO:HD2	1.93	0.51
8:NI:26:LEU:HD21	8:NI:363:VAL:HG13	1.93	0.51
8:NI:402:ARG:NH2	8:NI:406:HIS:HB3	2.25	0.51
9:NJ:68:LEU:HB3	9:NJ:96:GLY:HA2	1.93	0.51
8:NK:188:ILE:HG12	8:NK:391:LEU:HD11	1.93	0.51
9:NL:324:LYS:O	9:NL:328:GLU:N	2.30	0.51
8:NM:120:ASP:HA	8:NM:123:ARG:HG2	1.92	0.51
9:NN:238:THR:HA	9:NN:241:ARG:NE	2.25	0.51
8:NO:21:TRP:HA	8:NO:24:TYR:CD2	2.45	0.51
9:NP:286:VAL:O	9:NP:290:THR:HG23	2.10	0.51
8:OI:286:LEU:HD22	8:OI:371:VAL:HG13	1.93	0.51
9:OL:67:ASP:HA	9:OL:143:THR:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ON:23:VAL:HG21	9:ON:230:SER:HB3	1.93	0.51
8:OO:203:MET:CE	8:OO:203:MET:H	2.23	0.51
9:OP:269:GLY:HA3	9:OP:367:PHE:HB3	1.92	0.51
9:PB:403:MET:SD	9:PB:403:MET:N	2.74	0.51
8:PC:188:ILE:O	8:PC:191:THR:OG1	2.25	0.51
9:PF:279:GLN:HA	9:PF:282:ARG:HH12	1.76	0.51
9:PH:185:ALA:O	9:PH:189:VAL:HG12	2.10	0.51
9:PJ:198:GLU:HA	9:PJ:264:HIS:HB2	1.93	0.51
8:PO:230:LEU:HD23	8:PO:302:MET:HE1	1.92	0.51
9:QB:147:MET:O	9:QB:151:LEU:HG	2.10	0.51
9:QB:345:ILE:HA	8:QC:398:MET:HE1	1.91	0.51
9:QD:7:LEU:HD13	9:QD:135:LEU:HB2	1.93	0.51
9:QJ:31:ASP:HB3	9:QJ:37:HIS:CD2	2.46	0.51
9:QL:7:LEU:N	9:QL:134:GLN:O	2.43	0.51
9:QP:344:TRP:H	9:QP:344:TRP:CD1	2.27	0.51
29:R:74:LYS:O	29:R:78:MET:HG2	2.11	0.51
8:RC:5:ILE:HD13	8:RC:125:LEU:HB3	1.93	0.51
8:RC:298:PRO:HA	8:RC:301:GLN:HG2	1.93	0.51
9:RD:388:MET:HE1	9:RD:394:PHE:HD2	1.76	0.51
9:RJ:8:GLN:HB2	9:RJ:65:LEU:HA	1.92	0.51
8:RK:211:ASP:HB3	8:RK:215:ARG:HH21	1.75	0.51
8:RO:298:PRO:HA	8:RO:301:GLN:HG2	1.93	0.51
12:S2:133:GLN:HE22	30:V6:151:PHE:HA	1.75	0.51
12:S6:121:ARG:NH2	12:S7:374:GLN:OE1	2.44	0.51
12:S7:196:ARG:HD2	12:S7:196:ARG:O	2.11	0.51
8:SC:12:ALA:O	8:SC:16:ILE:HG12	2.11	0.51
9:SH:15:GLN:OE1	9:SH:15:GLN:N	2.41	0.51
8:SM:151:SER:HA	8:SM:193:THR:HG21	1.92	0.51
8:SM:191:THR:HA	8:SM:194:THR:HG22	1.92	0.51
8:SM:206:ASN:OD1	50:SM:501:GTP:N2	2.43	0.51
8:SM:226:ASN:O	8:SM:230:LEU:HD22	2.11	0.51
8:TE:338:LYS:HB3	8:TE:341:ILE:HG12	1.92	0.51
9:TF:31:ASP:OD1	9:TF:35:THR:N	2.44	0.51
9:TF:358:PRO:HG2	9:TF:361:LEU:HB2	1.93	0.51
8:TG:223:THR:OG1	8:TG:224:TYR:N	2.44	0.51
25:U:515:TYR:O	25:U:518:SER:OG	2.20	0.51
30:U2:270:LEU:O	30:U2:271:ARG:NH1	2.43	0.51
30:U8:311:ARG:O	30:U8:314:SER:OG	2.25	0.51
9:UN:249:ASP:H	9:UN:252:LYS:HB2	1.76	0.51
25:V:381:LEU:HD11	25:V:398:PHE:HE2	1.76	0.51
25:V:495:VAL:HG12	25:V:504:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V2:408:CYS:SG	30:V2:409:ARG:N	2.84	0.51
30:V7:246:ALA:HB2	30:V7:306:HIS:CE1	2.45	0.51
30:V9:428:GLN:NE2	4:j1:218:ASP:OD2	2.43	0.51
8:VE:147:SER:OG	8:VE:190:THR:OG1	2.18	0.51
8:VG:27:GLU:OE2	8:VG:320:ARG:NH2	2.44	0.51
8:VI:316:CYS:C	8:VI:317:MET:HE2	2.36	0.51
8:VK:105:ARG:HH21	8:VK:110:ILE:HG13	1.75	0.51
8:VK:326:LYS:HZ2	9:VL:219:THR:HA	1.75	0.51
9:VL:187:LEU:O	9:VL:191:GLN:NE2	2.44	0.51
9:WB:323:MET:HA	9:WB:326:VAL:HB	1.93	0.51
9:WD:244:GLY:N	9:WD:247:ASN:OD1	2.41	0.51
8:WK:172:TYR:HB2	8:WK:203:MET:HB3	1.93	0.51
9:WL:325:GLU:H	8:WM:221:ARG:NH2	2.09	0.51
8:WO:3:GLU:H	8:WO:133:GLN:HG2	1.75	0.51
9:WP:303:CYS:HB2	9:WP:373:ALA:HB1	1.92	0.51
9:WP:398:TYR:O	9:WP:403:MET:HE3	2.11	0.51
34:X6:206:VAL:HB	34:X6:234:LEU:HD21	1.92	0.51
35:XF:85:LYS:HB3	35:XF:159:ASN:HB3	1.93	0.51
35:XF:172:TYR:HB2	35:XF:177:LEU:HD23	1.92	0.51
31:Y:590:THR:HG21	31:Y:594:LEU:HB2	1.92	0.51
37:YD:89:TYR:CD1	37:YD:125:LYS:HD2	2.45	0.51
40:a2:140:LEU:HA	40:a2:143:GLN:NE2	2.24	0.51
41:b5:154:LEU:HD22	41:b5:223:LEU:HD23	1.93	0.51
42:e:170:ARG:HE	42:e:172:GLU:HB2	1.75	0.51
42:e:212:GLY:O	42:e:221:TYR:N	2.44	0.51
42:f:397:LYS:HG2	42:f:413:ASN:HA	1.92	0.51
42:f:446:VAL:HG13	42:f:451:GLN:HG3	1.93	0.51
43:i:252:ILE:HD11	47:o:44:ILE:HB	1.92	0.51
2:2:365:PHE:CE2	4:6:350:GLU:HG3	2.46	0.50
3:3:66:TRP:CH2	9:JN:70:PRO:HB2	2.47	0.50
4:6:149:ARG:NH2	12:S1:158:SER:OG	2.44	0.50
1:7:87:ARG:NH1	9:JD:320:ARG:HD2	2.26	0.50
5:8:166:THR:HG21	9:KH:320:ARG:HH12	1.75	0.50
7:A1:247:SER:O	7:A1:251:ASN:ND2	2.44	0.50
9:AB:166:THR:HG23	9:AB:199:THR:HG23	1.93	0.50
8:AI:283:HIS:HA	8:MI:60:LYS:HE3	1.93	0.50
9:AJ:116:VAL:O	9:AJ:120:VAL:HG13	2.12	0.50
8:AK:211:ASP:OD2	8:AK:215:ARG:NH2	2.44	0.50
8:AO:217:LEU:HD12	8:AO:367:ASP:HB2	1.93	0.50
9:BJ:226:ASN:OD1	52:BJ:502:GDP:N1	2.35	0.50
8:BM:25:CYS:HB3	8:BM:30:ILE:HB	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:387:ASP:OD1	9:HJ:276:ARG:NE	2.38	0.50
10:C:406:ARG:HA	10:C:409:GLU:OE2	2.10	0.50
10:C:468:PHE:HD2	10:C:485:TYR:CD1	2.29	0.50
12:C1:86:ASN:O	30:W5:58:LYS:NZ	2.44	0.50
12:C3:415:MET:O	12:C3:419:ARG:HG2	2.11	0.50
9:CB:257:MET:HB3	9:CB:266:PHE:CZ	2.46	0.50
8:CC:352:LYS:HE2	9:CD:178:THR:HA	1.93	0.50
8:CG:172:TYR:HD1	8:CG:173:PRO:HD2	1.75	0.50
9:CH:129:CYS:O	8:CI:96:LYS:NZ	2.44	0.50
9:CH:130:LEU:HD12	9:CH:162:ARG:NH1	2.26	0.50
9:CN:73:MET:HE3	9:CN:90:PHE:CD2	2.46	0.50
9:CN:273:LEU:O	9:CN:292:GLN:NE2	2.44	0.50
14:D2:145:THR:HG21	14:D2:187:GLN:HG2	1.92	0.50
14:D4:149:TYR:HB2	14:D4:183:ILE:HG21	1.93	0.50
9:DB:215:LEU:HD21	9:DB:273:LEU:HB3	1.93	0.50
9:DL:129:CYS:SG	9:DL:162:ARG:NH1	2.83	0.50
8:DO:264:ARG:HH12	8:DO:428:LEU:HA	1.76	0.50
9:DP:91:VAL:HG11	9:DP:116:VAL:HG22	1.93	0.50
9:DP:209:ASP:OD1	9:DP:213:ARG:NH2	2.44	0.50
15:E:229:ARG:HG3	15:E:252:HIS:HA	1.93	0.50
8:EA:108:TYR:O	8:EA:112:LYS:NZ	2.38	0.50
9:EB:244:GLY:HA3	9:EB:354:CYS:HA	1.92	0.50
8:EC:21:TRP:HA	8:EC:24:TYR:HD1	1.74	0.50
9:ED:309:ARG:HG3	9:ED:426:GLN:HG3	1.93	0.50
9:EH:237:THR:HG22	9:EH:250:LEU:HD21	1.92	0.50
8:EI:88:HIS:CE1	8:EI:90:GLU:HB3	2.46	0.50
8:EI:169:PHE:HA	8:EI:202:PHE:HB2	1.92	0.50
9:EJ:78:SER:OG	31:Y:482:LYS:N	2.43	0.50
9:FB:8:GLN:HE21	9:FB:14:ASN:HA	1.75	0.50
8:FE:324:VAL:HG12	8:FE:326:LYS:H	1.74	0.50
9:FH:320:ARG:NH1	31:Y:700:ARG:HH22	2.08	0.50
8:FI:56:THR:HA	8:GI:285:GLN:HB2	1.92	0.50
8:FI:119:LEU:HB3	36:Y2:142:TYR:CE2	2.46	0.50
9:FJ:219:THR:OG1	31:Y:472:ASN:OD1	2.22	0.50
8:FM:147:SER:OG	8:FM:190:THR:OG1	2.24	0.50
8:FM:215:ARG:HH12	8:FM:299:ALA:C	2.19	0.50
8:FO:188:ILE:O	8:FO:191:THR:OG1	2.20	0.50
9:GD:4:ILE:HB	9:GD:50:TYR:HE1	1.75	0.50
8:GG:165:SER:HB3	8:GG:256:GLN:HE22	1.75	0.50
9:GL:323:MET:HE1	8:GM:224:TYR:CZ	2.46	0.50
9:HB:128:ASP:OD1	36:Y0:47:ARG:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HB:267:MET:HE2	9:HB:303:CYS:SG	2.51	0.50
9:HB:310:TYR:N	9:HB:340:TYR:O	2.37	0.50
9:HP:17:GLY:O	9:HP:21:TRP:HD1	1.93	0.50
8:IA:313:MET:N	8:IA:313:MET:SD	2.84	0.50
8:IC:323:VAL:HG21	8:IC:355:ILE:HD12	1.92	0.50
8:IC:411:GLU:O	8:IC:411:GLU:HG3	2.08	0.50
9:IF:252:LYS:HG3	8:IG:100:ALA:HA	1.93	0.50
8:IK:311:LYS:HG2	8:IK:342:GLN:HB2	1.94	0.50
8:IM:326:LYS:NZ	9:IN:220:PRO:O	2.42	0.50
9:IP:274:THR:HG21	9:IP:282:ARG:CZ	2.41	0.50
19:J1:242:LYS:HG3	19:J1:243:LYS:HG3	1.92	0.50
19:J2:183:LEU:O	19:J2:185:HIS:ND1	2.44	0.50
19:J4:199:GLN:HE21	19:J4:203:LYS:HE2	1.76	0.50
8:JE:114:ILE:HA	8:JE:117:LEU:HD13	1.93	0.50
9:JH:134:GLN:OE1	9:JH:165:ASN:HB2	2.11	0.50
9:JH:323:MET:HG3	8:JI:224:TYR:CD2	2.45	0.50
9:JJ:325:GLU:OE1	9:JJ:325:GLU:N	2.36	0.50
8:KA:329:ASN:HB2	9:KB:175:VAL:HG21	1.93	0.50
8:KC:201:ALA:O	8:KC:268:PRO:HD2	2.12	0.50
9:KH:401:GLU:O	41:b3:466:ARG:NE	2.36	0.50
9:KJ:210:ILE:O	9:KJ:214:THR:OG1	2.22	0.50
8:KO:346:TRP:O	9:KP:388:MET:HB2	2.12	0.50
9:KP:153:SER:HA	9:KP:195:ASN:HD22	1.75	0.50
8:LA:116:ASP:OD1	8:LA:117:LEU:HD22	2.12	0.50
8:LA:306:ASP:OD2	8:LA:308:ARG:NH2	2.45	0.50
9:LB:170:VAL:HG11	9:LB:377:LEU:HD11	1.93	0.50
8:LM:203:MET:HE1	8:LM:388:TRP:HZ2	1.76	0.50
8:LO:402:ARG:HG3	43:k:110:ALA:HA	1.92	0.50
9:LP:31:ASP:OD1	9:LP:35:THR:N	2.45	0.50
9:MF:73:MET:HE3	9:MF:90:PHE:HD2	1.76	0.50
9:MF:153:SER:HA	9:MF:195:ASN:ND2	2.26	0.50
8:MG:192:HIS:NE2	8:MG:421:ALA:HA	2.27	0.50
8:MI:286:LEU:O	8:MI:373:ARG:NH1	2.43	0.50
15:N2:74:ASN:ND2	15:N2:266:GLN:O	2.43	0.50
15:N2:99:GLU:O	15:N2:103:GLN:HG3	2.11	0.50
8:NA:132:LEU:HG	8:NA:164:LYS:HD2	1.93	0.50
9:NB:260:PHE:HE2	9:NB:344:TRP:HH2	1.58	0.50
8:NC:91:GLN:HA	8:NC:121:ARG:HD3	1.93	0.50
9:ND:67:ASP:OD1	9:ND:67:ASP:N	2.43	0.50
8:NE:183:GLU:HA	8:NE:186:ASN:HD22	1.77	0.50
8:NG:22:GLU:O	8:NG:26:LEU:HG	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NJ:126:SER:HA	36:Y4:51:TYR:HE1	1.75	0.50
9:NL:21:TRP:CE2	9:NL:61:PRO:HB3	2.45	0.50
9:NL:173:PRO:HG3	9:NL:380:ARG:HH11	1.76	0.50
9:NN:40:SER:HB3	9:NN:43:GLN:HB2	1.93	0.50
9:NN:170:VAL:HG21	9:NN:377:LEU:HD11	1.91	0.50
9:NN:278:SER:HA	9:NN:282:ARG:NH1	2.27	0.50
8:NO:136:LEU:HA	8:NO:167:LEU:HD12	1.92	0.50
8:NO:328:VAL:HG11	8:NO:353:VAL:HG11	1.91	0.50
17:O7:201:PHE:H	17:O7:203:ARG:HH22	1.59	0.50
17:O7:249:LYS:O	17:O7:253:VAL:HG12	2.10	0.50
8:OA:252:LEU:HA	8:OA:255:PHE:CZ	2.46	0.50
9:OB:237:THR:HG22	9:OB:250:LEU:HD21	1.92	0.50
9:OD:269:GLY:HA3	9:OD:367:PHE:HB3	1.93	0.50
9:OF:5:VAL:HB	9:OF:133:PHE:HD1	1.76	0.50
9:OF:87:PRO:HA	9:OF:90:PHE:CD2	2.46	0.50
9:OF:324:LYS:HG3	8:OG:222:PRO:HD2	1.91	0.50
8:OG:105:ARG:HH21	8:OG:110:ILE:HG13	1.75	0.50
9:ON:39:ASP:OD1	9:ON:39:ASP:N	2.34	0.50
9:ON:42:LEU:HD23	9:ON:356:ILE:HD11	1.93	0.50
8:PE:167:LEU:HD11	8:PE:256:GLN:HE21	1.76	0.50
9:PF:8:GLN:HE21	9:PF:14:ASN:HA	1.76	0.50
9:QH:218:THR:HG23	9:QH:219:THR:HG23	1.93	0.50
8:QI:203:MET:H	8:QI:203:MET:HE3	1.76	0.50
9:QJ:331:LEU:HD21	8:QK:177:VAL:HA	1.92	0.50
8:QM:271:THR:HA	8:QM:302:MET:HE1	1.92	0.50
8:QO:8:HIS:H	8:QO:8:HIS:CD2	2.28	0.50
8:QO:33:ASP:OD1	8:QO:33:ASP:N	2.44	0.50
11:R2:85:LEU:HD11	11:R2:165:LEU:HD22	1.93	0.50
9:RF:427:ASP:OD1	9:RF:427:ASP:N	2.36	0.50
9:RH:204:ASN:OD1	52:RH:502:GDP:N2	2.44	0.50
8:RI:36:MET:HE3	8:RI:37:PRO:HD2	1.93	0.50
8:RI:264:ARG:NH1	8:RI:431:ASP:OD2	2.44	0.50
8:RK:167:LEU:HD11	8:RK:256:GLN:HE21	1.75	0.50
9:RN:16:ILE:HD11	9:RN:136:THR:HB	1.92	0.50
9:RP:1:MET:SD	9:RP:2:ARG:N	2.85	0.50
12:S9:452:LYS:HE2	14:T0:41:LEU:HD12	1.93	0.50
8:SG:3:GLU:OE2	8:SG:64:ARG:NH2	2.44	0.50
8:SI:292:THR:HG21	8:SI:331:ALA:HB1	1.92	0.50
8:SI:317:MET:HE2	8:SI:319:TYR:CD1	2.46	0.50
8:SK:213:CYS:HA	8:SK:217:LEU:HD12	1.94	0.50
9:SL:337:ASN:HB3	9:SL:340:TYR:HD2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T1:207:HIS:CE1	14:T1:267:ARG:HG2	2.44	0.50
8:TC:431:ASP:O	8:TC:435:VAL:HG23	2.11	0.50
9:TF:274:THR:HB	9:TF:278:SER:HB2	1.92	0.50
8:TG:201:ALA:O	8:TG:268:PRO:HD2	2.11	0.50
8:TI:136:LEU:HD23	8:TI:167:LEU:HD11	1.93	0.50
9:TJ:358:PRO:HG2	9:TJ:361:LEU:HB3	1.92	0.50
30:U1:447:THR:HG23	30:U1:450:ARG:HH21	1.76	0.50
30:U3:339:THR:HB	30:U3:473:ARG:HH12	1.76	0.50
30:U3:449:SER:O	30:U9:401:ARG:NH2	2.39	0.50
9:UD:63:ALA:HB3	9:UD:85:PHE:HE2	1.76	0.50
8:UE:3:GLU:OE2	8:UE:64:ARG:NH2	2.44	0.50
8:UE:75:VAL:HG12	8:UE:79:ARG:HE	1.76	0.50
8:UE:80:THR:O	8:UE:84:ARG:NH2	2.45	0.50
9:UF:65:LEU:HD21	9:UF:76:VAL:HG21	1.93	0.50
8:UI:172:TYR:HB2	8:UI:203:MET:HB2	1.93	0.50
8:UO:123:ARG:NH2	8:UO:160:ASP:OD1	2.44	0.50
30:V3:350:GLU:OE1	30:V3:462:LEU:HA	2.11	0.50
30:V7:170:MET:HB3	30:V7:240:ILE:HD11	1.93	0.50
8:VA:11:GLN:HA	8:VA:74:VAL:HG11	1.92	0.50
8:VC:3:GLU:H	8:VC:133:GLN:HG2	1.76	0.50
8:VE:154:MET:HA	8:VE:157:LEU:HD12	1.93	0.50
8:VG:254:GLU:O	8:VG:258:ASN:ND2	2.39	0.50
8:VM:320:ARG:HD3	8:VM:360:PRO:HG3	1.93	0.50
8:WC:317:MET:HE3	8:WC:351:PHE:CD1	2.42	0.50
9:WD:107:THR:O	37:YB:74:LYS:NZ	2.44	0.50
8:WE:333:ALA:HA	8:WE:336:LYS:HE3	1.93	0.50
8:WG:245:ASP:N	8:WG:245:ASP:OD1	2.43	0.50
9:WL:344:TRP:H	9:WL:344:TRP:CD1	2.29	0.50
9:WP:271:ALA:HB1	9:WP:289:LEU:HD22	1.93	0.50
31:X:434:LEU:HD11	31:X:458:LEU:HD21	1.93	0.50
36:Y1:19:ILE:HG22	36:Y1:20:MET:H	1.75	0.50
36:Y2:33:PRO:HG2	36:Y2:42:THR:HG22	1.92	0.50
36:Y4:38:PHE:HB2	36:Y4:47:ARG:HE	1.76	0.50
37:YA:93:LEU:HD23	37:YA:129:VAL:HG11	1.94	0.50
37:YC:221:GLY:H	37:YC:224:ALA:HB2	1.76	0.50
37:YG:122:GLY:HA3	37:YG:126:ILE:HD11	1.93	0.50
39:b:526:ARG:HH22	39:b:536:ILE:HD13	1.75	0.50
41:b3:239:GLN:HB2	44:h2:66:PHE:CZ	2.46	0.50
39:c:373:ARG:HG2	39:c:376:GLN:NE2	2.25	0.50
42:e:466:CYS:O	42:e:479:ALA:N	2.43	0.50
42:f:94:ILE:HG23	42:f:106:ARG:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:g:416:HIS:HD2	42:g:420:VAL:HG22	1.75	0.50
46:i2:1386:TYR:CE2	46:i2:1399:PHE:HB2	2.46	0.50
43:j:32:ARG:HA	43:j:35:ILE:HG12	1.93	0.50
43:k:124:ILE:HD11	43:k:133:LYS:HB3	1.93	0.50
43:k:192:GLU:O	43:k:196:VAL:HG23	2.11	0.50
48:r:149:HIS:HB3	48:r:155:GLY:HA3	1.93	0.50
2:2:514:LYS:HA	6:N1:100:ARG:NE	2.26	0.50
7:A1:361:GLN:OE1	7:A2:33:GLN:NE2	2.44	0.50
7:A5:179:PHE:O	7:A5:183:THR:HG23	2.11	0.50
8:AE:192:HIS:NE2	8:AE:424:ASP:OD2	2.44	0.50
9:AJ:324:LYS:HG3	8:AK:210:TYR:CD2	2.45	0.50
8:AM:295:CYS:HB3	8:AM:377:MET:HE3	1.92	0.50
9:BD:322:SER:HB2	17:I:232:MET:HG3	1.92	0.50
8:BE:325:PRO:O	8:BE:329:ASN:ND2	2.44	0.50
8:BG:27:GLU:OE1	8:BG:243:ARG:NH1	2.44	0.50
8:BK:88:HIS:HB3	8:BK:91:GLN:HG2	1.92	0.50
9:BP:7:LEU:N	9:BP:134:GLN:O	2.26	0.50
12:C3:126:ARG:NH2	11:R4:43:ARG:HB3	2.26	0.50
12:C3:389:LYS:HB2	12:C3:431:ILE:HD11	1.94	0.50
12:C5:414:ASP:OD2	12:C5:417:GLN:N	2.44	0.50
8:CC:245:ASP:OD1	8:CC:245:ASP:N	2.40	0.50
9:CD:117:LEU:HD11	9:CD:154:LYS:HD2	1.93	0.50
9:CD:173:PRO:HD3	9:CD:380:ARG:CZ	2.41	0.50
8:CG:319:TYR:HB2	8:CG:355:ILE:HD13	1.94	0.50
9:CH:337:ASN:HB3	9:CH:340:TYR:HD2	1.76	0.50
9:CN:309:ARG:HD3	9:CN:342:VAL:HA	1.94	0.50
9:CP:257:MET:HB3	9:CP:266:PHE:CZ	2.47	0.50
14:D1:428:GLN:O	14:D1:432:THR:OG1	2.20	0.50
14:D2:170:ASP:N	14:D2:170:ASP:OD1	2.43	0.50
14:D4:166:ASP:OD1	14:D4:419:LYS:NZ	2.42	0.50
14:D4:202:ARG:NH2	28:Q4:135:GLY:O	2.43	0.50
14:D4:377:LEU:O	14:D4:380:GLU:HB2	2.11	0.50
9:DD:229:VAL:O	9:DD:232:THR:N	2.41	0.50
9:DJ:128:ASP:OD1	9:DJ:129:CYS:N	2.44	0.50
8:DM:345:ASP:N	8:DM:345:ASP:OD1	2.43	0.50
8:DO:27:GLU:OE2	8:DO:243:ARG:NE	2.45	0.50
8:DO:206:ASN:OD1	50:DO:501:GTP:N2	2.44	0.50
8:EC:367:ASP:OD1	8:EC:367:ASP:N	2.40	0.50
9:EF:51:TYR:HB3	9:EF:59:TYR:HB3	1.93	0.50
9:EF:218:THR:HG22	31:X:411:PRO:HB2	1.92	0.50
8:EI:211:ASP:OD2	8:EI:211:ASP:N	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EJ:26:ASP:OD1	9:EJ:359:ARG:NH1	2.44	0.50
8:EM:169:PHE:HA	8:EM:202:PHE:HB2	1.93	0.50
9:EN:165:ASN:HB3	9:EN:200:TYR:HE2	1.76	0.50
8:EO:84:ARG:HD3	17:Z5:216:LYS:CE	2.42	0.50
9:FB:209:ASP:HA	9:FB:212:PHE:CE2	2.46	0.50
8:FC:262:TYR:OH	9:FD:391:ARG:O	2.29	0.50
8:FI:284:GLU:HG2	8:FI:286:LEU:HD22	1.93	0.50
9:FJ:372:THR:HA	9:FJ:422:TYR:CE1	2.46	0.50
8:FK:184:PRO:O	8:FK:188:ILE:HG12	2.12	0.50
8:FO:290:GLU:O	8:FO:293:ASN:ND2	2.44	0.50
9:GB:42:LEU:HD13	9:GB:45:GLU:HG2	1.94	0.50
9:GD:31:ASP:OD1	9:GD:35:THR:N	2.45	0.50
9:GJ:116:VAL:O	9:GJ:120:VAL:HG12	2.12	0.50
8:HC:186:ASN:O	8:HC:190:THR:OG1	2.24	0.50
9:HD:166:THR:HG23	9:HD:199:THR:HG23	1.93	0.50
8:HG:320:ARG:HD3	8:HG:360:PRO:HG3	1.92	0.50
9:HH:16:ILE:HD11	9:HH:229:VAL:HG21	1.93	0.50
9:HN:269:GLY:N	9:HN:367:PHE:O	2.43	0.50
9:HP:158:GLU:OE1	9:HP:158:GLU:N	2.44	0.50
8:IA:317:MET:HE1	8:IA:352:LYS:N	2.26	0.50
9:IB:303:CYS:HB2	9:IB:373:ALA:HB1	1.94	0.50
9:ID:198:GLU:HB3	9:ID:266:PHE:HE2	1.77	0.50
9:IF:25:SER:OG	9:IF:30:ILE:O	2.30	0.50
9:IL:118:ASP:HB3	9:IL:121:ARG:HH22	1.76	0.50
9:IL:133:PHE:CD2	9:IL:164:MET:HE1	2.46	0.50
8:IM:31:GLN:HG2	8:IM:35:GLN:O	2.12	0.50
9:IN:269:GLY:HA3	9:IN:367:PHE:HB3	1.93	0.50
9:IP:86:ARG:HD2	8:JQ:283:HIS:CE1	2.46	0.50
19:J4:235:LEU:CD1	8:LO:393:HIS:HB2	2.41	0.50
9:JF:257:MET:SD	9:JF:312:THR:OG1	2.66	0.50
9:JH:350:LYS:HD2	8:JI:180:ALA:HA	1.94	0.50
8:JI:240:ALA:HB1	8:JI:356:ASN:ND2	2.26	0.50
8:JK:120:ASP:OD1	8:JK:124:LYS:NZ	2.44	0.50
8:JM:103:TYR:N	8:JM:186:ASN:OD1	2.43	0.50
9:JN:6:HIS:HE1	9:JN:8:GLN:HE21	1.59	0.50
9:JN:28:HIS:C	9:JN:43:GLN:HE21	2.19	0.50
8:JO:269:LEU:HD11	8:JO:303:VAL:HG21	1.93	0.50
9:JP:236:VAL:HG13	9:JP:237:THR:HG23	1.93	0.50
8:KC:188:ILE:O	8:KC:191:THR:OG1	2.25	0.50
9:KD:285:THR:HG23	9:KD:287:PRO:HD2	1.92	0.50
8:KK:269:LEU:HD22	8:KK:303:VAL:HG21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LB:313:VAL:HB	9:LB:349:VAL:HG22	1.93	0.50
9:LF:116:VAL:O	9:LF:120:VAL:HG13	2.11	0.50
8:LM:191:THR:HA	8:LM:194:THR:HG22	1.92	0.50
8:MG:201:ALA:O	8:MG:268:PRO:HD2	2.12	0.50
9:MH:238:THR:HG21	9:MH:318:ARG:HD2	1.92	0.50
8:MK:171:ILE:HG23	8:MK:206:ASN:HD21	1.75	0.50
8:MM:175:PRO:HB3	8:MM:390:ARG:HE	1.75	0.50
9:MN:198:GLU:HA	9:MN:264:HIS:HB2	1.92	0.50
9:NH:54:ALA:HA	9:OH:283:ALA:HB2	1.93	0.50
9:NH:286:VAL:HG12	9:NH:329:GLN:HG3	1.92	0.50
8:NI:270:ALA:H	8:NI:302:MET:HE2	1.76	0.50
8:NI:276:ILE:HD12	8:NI:281:ALA:HB2	1.93	0.50
8:NK:19:ALA:O	8:NK:22:GLU:HG2	2.12	0.50
8:NK:51:THR:HG21	8:NK:243:ARG:HG2	1.93	0.50
25:O5:448:MET:SD	25:O5:471:LYS:HG3	2.51	0.50
9:OB:304:ASP:HB3	9:OB:307:HIS:CE1	2.47	0.50
9:OH:130:LEU:O	9:OH:162:ARG:NH1	2.44	0.50
9:OJ:156:ARG:O	9:OJ:156:ARG:NH1	2.38	0.50
9:OJ:253:LEU:HD21	9:OJ:368:ILE:HD12	1.92	0.50
23:P:335:PHE:CE2	31:W:16:GLY:HA3	2.46	0.50
9:PB:134:GLN:NE2	9:PB:165:ASN:O	2.44	0.50
9:PB:344:TRP:H	9:PB:344:TRP:CD1	2.29	0.50
9:PD:332:ASN:O	9:PD:336:LYS:NZ	2.42	0.50
9:PJ:271:ALA:HB1	9:PJ:289:LEU:HD22	1.92	0.50
8:PK:335:ILE:HA	8:PK:338:LYS:HD2	1.91	0.50
9:PL:286:VAL:CG2	9:PL:321:MET:HE2	2.39	0.50
8:PM:138:PHE:HA	8:PM:169:PHE:O	2.12	0.50
8:QG:320:ARG:O	8:QG:374:ALA:N	2.40	0.50
9:QJ:248:ALA:HA	9:QJ:252:LYS:HG3	1.93	0.50
8:QK:228:ASN:HA	8:QK:231:ILE:HB	1.93	0.50
8:QK:302:MET:N	8:QK:302:MET:SD	2.84	0.50
9:QN:290:THR:HG21	9:QN:329:GLN:HB3	1.92	0.50
11:R0:136:GLU:HB3	11:R0:261:THR:HG22	1.93	0.50
11:R0:331:ARG:HD3	11:R0:336:TYR:CZ	2.47	0.50
11:R1:334:THR:HG22	11:R2:63:ARG:HB3	1.92	0.50
11:R2:112:VAL:HG11	11:R2:397:LEU:HD21	1.93	0.50
11:R3:164:LEU:HD21	11:R3:232:GLU:OE2	2.10	0.50
9:RD:374:ILE:HD12	9:RD:377:LEU:HD23	1.93	0.50
8:RE:297:GLU:O	8:RE:301:GLN:NE2	2.38	0.50
8:RG:188:ILE:O	8:RG:191:THR:OG1	2.28	0.50
9:RJ:223:GLY:O	9:RJ:227:HIS:N	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RM:151:SER:HA	8:RM:193:THR:HG21	1.92	0.50
9:RN:48:ASN:O	9:RN:62:ARG:NH2	2.44	0.50
8:RO:172:TYR:N	8:RO:204:VAL:O	2.42	0.50
12:S0:253:GLU:OE2	12:S0:307:ASN:ND2	2.45	0.50
12:S3:446:GLN:HE22	12:S6:284:PHE:HA	1.76	0.50
12:S9:472:LYS:O	12:S9:476:MET:HG2	2.11	0.50
8:SC:119:LEU:HD22	8:SC:122:ILE:HD11	1.94	0.50
8:SE:297:GLU:HG3	8:SE:299:ALA:H	1.75	0.50
8:SI:271:THR:OG1	8:SI:301:GLN:OE1	2.27	0.50
8:SK:286:LEU:HG	8:SK:373:ARG:HH11	1.75	0.50
9:SL:382:SER:HB2	9:SL:415:MET:HE1	1.94	0.50
14:T0:98:ASP:C	14:T1:376:ARG:HH22	2.19	0.50
14:T4:251:ALA:H	14:T5:368:LEU:HG	1.77	0.50
8:TE:88:HIS:CD2	8:UE:283:HIS:HB3	2.47	0.50
8:TE:324:VAL:O	8:TE:328:VAL:HG23	2.11	0.50
9:TF:337:ASN:HB3	9:TF:340:TYR:HD2	1.76	0.50
9:TH:344:TRP:HZ3	8:TI:403:ALA:HB2	1.76	0.50
30:U0:200:LYS:HE3	30:U0:200:LYS:HA	1.92	0.50
8:UA:225:THR:OG1	8:UA:229:ARG:NH2	2.43	0.50
8:UM:220:GLU:HG2	8:UM:221:ARG:HG2	1.94	0.50
8:UO:236:SER:OG	8:UO:243:ARG:NH1	2.42	0.50
30:V2:350:GLU:HG3	30:V2:462:LEU:HD12	1.93	0.50
30:V6:355:ASN:O	30:V6:359:THR:HG23	2.10	0.50
8:VA:114:ILE:O	8:VA:118:VAL:HG12	2.12	0.50
9:VN:39:ASP:H	9:VN:43:GLN:HE22	1.58	0.50
8:VO:286:LEU:O	8:VO:373:ARG:NH1	2.45	0.50
31:W:539:LYS:HA	31:W:539:LYS:HE3	1.93	0.50
30:W0:198:ARG:NH2	30:W0:465:ASP:OD1	2.44	0.50
8:WA:345:ASP:N	8:WA:345:ASP:OD1	2.43	0.50
8:WC:5:ILE:HD12	8:WC:135:PHE:HE1	1.76	0.50
9:WD:356:ILE:HD13	48:q:139:HIS:HE2	1.76	0.50
9:WF:324:LYS:NZ	8:WG:220:GLU:OE1	2.44	0.50
9:WF:362:LYS:HG2	9:WF:363:MET:HG2	1.93	0.50
9:WJ:8:GLN:HE21	9:WJ:14:ASN:HA	1.77	0.50
31:Y:488:LYS:HB2	31:Y:500:GLU:HG3	1.91	0.50
37:YB:182:ASN:HD21	37:YB:233:PRO:HD3	1.76	0.50
17:Z5:236:TYR:O	17:Z5:240:VAL:HG13	2.11	0.50
41:b3:266:ASP:OD1	41:b3:268:THR:OG1	2.29	0.50
41:b5:209:MET:HA	41:b5:212:LYS:HD2	1.94	0.50
39:c:157:ASN:HA	39:c:160:LYS:HE2	1.93	0.50
42:g:48:LEU:HG	42:g:59:PHE:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:g:376:THR:H	42:g:394:ASP:CG	2.19	0.50
47:p:314:ARG:NH1	47:p:318:GLU:OE1	2.45	0.50
49:y:124:MET:HE2	49:y:124:MET:HA	1.92	0.50
3:3:429:LEU:HD11	9:GB:276:ARG:HE	1.75	0.50
7:A2:22:SER:O	7:A2:26:ARG:HG3	2.11	0.50
7:A4:214:LEU:H	7:A4:214:LEU:HD23	1.76	0.50
8:AA:107:HIS:HA	8:AA:152:LEU:HD23	1.94	0.50
8:AI:75:VAL:HG11	8:AI:92:LEU:HB3	1.94	0.50
8:AK:151:SER:HB3	8:AK:193:THR:HG21	1.93	0.50
8:AK:239:THR:OG1	8:AK:243:ARG:NH1	2.44	0.50
9:AN:150:LEU:HG	9:AN:154:LYS:HE2	1.92	0.50
8:AO:107:HIS:HA	8:AO:152:LEU:HD23	1.92	0.50
8:BE:43:GLY:HA2	25:U:222:LYS:HA	1.93	0.50
8:BG:320:ARG:HD3	8:BG:360:PRO:HG3	1.94	0.50
9:BH:344:TRP:H	9:BH:344:TRP:CD1	2.27	0.50
9:BL:114:ASP:N	9:BL:114:ASP:OD1	2.44	0.50
8:BO:60:LYS:HZ1	8:BO:86:LEU:HA	1.77	0.50
10:C:219:ILE:O	10:C:223:ILE:HG12	2.11	0.50
12:C1:330:ILE:HD13	28:Q1:186:ARG:HG2	1.92	0.50
12:C4:202:ARG:HH21	12:C4:216:GLU:HB2	1.77	0.50
9:CH:116:VAL:HG11	9:CH:151:LEU:HD11	1.93	0.50
8:CK:205:ASP:OD1	8:CK:208:ALA:N	2.31	0.50
8:CM:306:ASP:O	8:CM:309:HIS:ND1	2.35	0.50
8:CO:114:ILE:HD12	8:CO:117:LEU:HD23	1.94	0.50
8:CO:142:GLY:HA2	8:CO:183:GLU:HG3	1.92	0.50
14:D3:401:ALA:O	14:D3:405:LEU:HG	2.11	0.50
9:DB:138:SER:HA	9:DB:169:VAL:HB	1.94	0.50
8:DC:138:PHE:HD1	8:DC:169:PHE:HB2	1.77	0.50
9:DF:309:ARG:NH2	9:DF:339:SER:O	2.43	0.50
9:DJ:337:ASN:HB3	9:DJ:340:TYR:HD2	1.76	0.50
9:DJ:389:PHE:O	9:DJ:392:LYS:NZ	2.38	0.50
9:DP:8:GLN:HE21	9:DP:14:ASN:HA	1.75	0.50
9:EL:73:MET:HA	9:EL:76:VAL:HB	1.93	0.50
9:EL:327:ASP:HB3	8:EM:177:VAL:HG21	1.93	0.50
9:FD:344:TRP:H	9:FD:344:TRP:CD1	2.29	0.50
9:FJ:337:ASN:HB3	9:FJ:340:TYR:HD2	1.75	0.50
8:FO:147:SER:OG	8:FO:190:THR:OG1	2.28	0.50
8:GE:68:VAL:HG12	8:GE:93:ILE:HB	1.93	0.50
8:GM:167:LEU:HD21	8:GM:255:PHE:HZ	1.75	0.50
9:GN:31:ASP:OD1	9:GN:35:THR:N	2.45	0.50
8:HC:271:THR:HA	8:HC:302:MET:CE	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:274:PRO:HB2	8:HC:276:ILE:HG12	1.92	0.50
9:HD:101:TRP:HB2	9:HD:184:ASN:HB3	1.93	0.50
8:HG:188:ILE:O	8:HG:191:THR:OG1	2.28	0.50
9:HJ:147:MET:HE1	9:HJ:150:LEU:HD22	1.92	0.50
8:HK:271:THR:O	8:HK:377:MET:N	2.38	0.50
9:IB:131:GLN:OE1	9:IB:251:ARG:NH2	2.37	0.50
9:IB:287:PRO:HB3	36:Y0:51:TYR:CE1	2.46	0.50
9:IB:290:THR:HA	9:IB:293:MET:HB3	1.94	0.50
9:ID:192:LEU:O	9:ID:196:THR:HG22	2.11	0.50
9:ID:247:ASN:ND2	8:IE:11:GLN:OE1	2.44	0.50
8:IG:169:PHE:HE1	8:IG:235:VAL:HG22	1.75	0.50
8:II:101:ASN:HA	8:II:144:GLY:H	1.76	0.50
9:IP:234:SER:O	9:IP:241:ARG:NH2	2.44	0.50
19:J1:199:GLN:NE2	19:J2:51:GLY:O	2.45	0.50
8:JC:265:ILE:HD11	8:JC:435:VAL:HG21	1.94	0.50
8:JK:195:LEU:HD11	8:JK:428:LEU:HD12	1.93	0.50
8:JM:118:VAL:HG21	8:JM:149:PHE:HZ	1.75	0.50
8:JO:217:LEU:HD12	8:JO:367:ASP:OD2	2.12	0.50
8:JQ:186:ASN:OD1	8:JQ:408:TYR:OH	2.28	0.50
8:KG:385:ALA:HA	8:KG:388:TRP:HD1	1.77	0.50
9:KH:378:PHE:HB3	9:KH:415:MET:HE3	1.93	0.50
8:KI:312:TYR:HE2	8:KI:341:ILE:HD12	1.76	0.50
9:KJ:67:ASP:OD2	9:KJ:72:THR:OG1	2.25	0.50
8:KM:338:LYS:HD3	8:KM:340:THR:N	2.24	0.50
8:KO:288:VAL:HG21	8:KO:323:VAL:HG23	1.92	0.50
9:KP:6:HIS:HE1	9:KP:136:THR:HG22	1.77	0.50
17:L:302:ASN:HA	17:L:305:ARG:HD2	1.93	0.50
8:LA:420:GLU:OE1	43:h:80:ARG:NE	2.45	0.50
8:LC:131:GLY:HA2	45:l:22:TRP:CZ2	2.46	0.50
8:LC:137:ILE:HD13	8:LC:154:MET:SD	2.52	0.50
9:LD:31:ASP:OD1	9:LD:35:THR:N	2.43	0.50
9:LJ:61:PRO:HD3	9:LJ:84:ILE:HG22	1.93	0.50
9:LL:74:ASP:OD1	25:O5:30:THR:OG1	2.27	0.50
8:LM:30:ILE:HD11	8:LM:36:MET:HE2	1.93	0.50
9:LP:359:ARG:NH2	25:O6:11:PHE:HB3	2.26	0.50
8:MG:120:ASP:OD1	8:MG:124:LYS:NZ	2.44	0.50
8:MM:298:PRO:HG3	8:MM:308:ARG:HE	1.76	0.50
8:MO:223:THR:OG1	8:MO:224:TYR:N	2.44	0.50
8:NA:287:SER:HA	8:NA:373:ARG:HH21	1.76	0.50
8:NC:108:TYR:HA	8:NC:112:LYS:HE3	1.92	0.50
8:NG:326:LYS:HG3	9:NH:220:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NI:439:SER:HB3	9:NJ:391:ARG:NH2	2.23	0.50
8:NK:279:GLU:OE2	8:NK:279:GLU:N	2.33	0.50
8:NM:54:SER:CB	8:NM:64:ARG:NH2	2.69	0.50
8:NM:323:VAL:HG22	8:NM:373:ARG:HD2	1.93	0.50
9:NN:343:GLU:OE2	9:NN:343:GLU:N	2.41	0.50
9:NP:173:PRO:HD3	9:NP:380:ARG:HD2	1.94	0.50
9:OD:134:GLN:OE1	9:OD:165:ASN:HB3	2.11	0.50
9:OD:207:LEU:HB3	9:OD:225:LEU:HD22	1.93	0.50
9:OH:202:ILE:HD12	9:OH:229:VAL:HG22	1.93	0.50
8:OI:213:CYS:HA	8:OI:217:LEU:HD12	1.92	0.50
9:OJ:83:GLN:O	9:PJ:281:TYR:OH	2.20	0.50
8:OK:172:TYR:HE1	8:OK:391:LEU:HD11	1.75	0.50
8:OO:122:ILE:HD13	8:OO:157:LEU:HD21	1.92	0.50
9:OP:7:LEU:N	9:OP:134:GLN:O	2.44	0.50
9:OP:228:LEU:HD12	9:OP:229:VAL:N	2.26	0.50
23:P:251:ASP:OD2	23:P:252:LEU:N	2.45	0.50
27:P7:176:MET:HG3	14:T1:337:ALA:HB1	1.94	0.50
17:P9:48:VAL:HG23	17:P9:49:GLN:HE21	1.76	0.50
9:PD:313:VAL:HB	9:PD:349:VAL:HA	1.93	0.50
9:PF:334:GLN:HE22	9:PF:348:ASN:HD22	1.60	0.50
8:PG:152:LEU:O	8:PG:156:ARG:HG2	2.11	0.50
8:PM:2:ARG:HB3	8:PM:133:GLN:HG3	1.92	0.50
28:Q4:150:VAL:HB	28:Q4:153:ARG:HH21	1.76	0.50
9:QB:170:VAL:HG11	9:QB:377:LEU:HD13	1.94	0.50
9:QD:31:ASP:OD1	9:QD:35:THR:N	2.44	0.50
8:QI:7:ILE:HB	8:QI:137:ILE:HG12	1.94	0.50
8:QI:345:ASP:N	8:QI:345:ASP:OD1	2.42	0.50
9:QJ:8:GLN:HB3	9:QJ:65:LEU:HA	1.92	0.50
9:QJ:294:PHE:CE2	9:QJ:333:VAL:HG11	2.46	0.50
8:QM:167:LEU:HD13	8:QM:200:CYS:HB2	1.93	0.50
9:QN:263:LEU:HD22	9:QN:422:TYR:HD2	1.76	0.50
8:RC:147:SER:OG	8:RC:190:THR:OG1	2.23	0.50
9:RD:8:GLN:HE21	9:RD:14:ASN:HA	1.76	0.50
8:RK:3:GLU:OE2	8:RK:64:ARG:NH2	2.44	0.50
8:RM:271:THR:HB	8:RM:377:MET:HE3	1.93	0.50
12:S1:160:ILE:HG21	12:S1:258:LEU:HB2	1.94	0.50
12:S2:138:THR:HG22	12:S3:423:GLU:OE2	2.11	0.50
9:SF:263:LEU:HG	9:SF:370:ASN:HD21	1.76	0.50
9:SH:156:ARG:NH1	9:SH:197:ASP:OD1	2.38	0.50
9:SJ:261:PRO:HG3	8:SK:406:HIS:CD2	2.47	0.50
8:SM:36:MET:N	8:SM:36:MET:HE2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SM:209:ILE:HD12	8:SM:209:ILE:H	1.77	0.50
9:TD:380:ARG:O	9:TD:384:GLN:NE2	2.37	0.50
9:TJ:28:HIS:ND1	9:TJ:43:GLN:O	2.42	0.50
8:TK:68:VAL:HG12	8:TK:93:ILE:HB	1.92	0.50
9:TL:344:TRP:HZ3	8:TM:403:ALA:HB2	1.77	0.50
8:TM:129:CYS:SG	8:TM:130:THR:N	2.84	0.50
30:U0:383:VAL:HA	30:U0:386:GLU:CD	2.36	0.50
9:UD:67:ASP:HA	9:UD:143:THR:HG21	1.93	0.50
8:UE:102:ASN:HB3	8:UE:105:ARG:HB2	1.92	0.50
8:UG:245:ASP:HA	8:UG:249:ASN:HD21	1.75	0.50
30:V0:225:CYS:HB3	30:V0:328:LEU:HD13	1.93	0.50
30:V0:349:GLU:O	30:V0:353:VAL:HG23	2.12	0.50
30:V5:149:LEU:HD11	30:V5:291:SER:HB2	1.93	0.50
9:VN:337:ASN:HB3	9:VN:340:TYR:HD2	1.77	0.50
8:VO:367:ASP:OD1	8:VO:367:ASP:N	2.44	0.50
31:W:261:GLU:OE2	31:W:263:ARG:HG3	2.12	0.50
30:W7:336:PHE:CD1	30:W7:476:PHE:HD2	2.30	0.50
9:WB:8:GLN:HE21	9:WB:14:ASN:HA	1.76	0.50
8:WE:1:MET:SD	8:WE:2:ARG:N	2.85	0.50
8:WG:184:PRO:O	8:WG:188:ILE:HG12	2.12	0.50
8:WG:254:GLU:HG2	9:WH:98:GLY:HA2	1.93	0.50
8:WK:164:LYS:HE2	37:YF:71:HIS:CG	2.46	0.50
35:XC:75:PHE:HB3	35:XC:133:GLN:HE22	1.76	0.50
35:XH:72:LYS:HB3	37:YH:62:ARG:HH21	1.76	0.50
31:Y:416:LYS:HD3	31:Y:416:LYS:N	2.27	0.50
36:Y4:185:TYR:CE2	36:Y4:188:THR:HG22	2.46	0.50
37:YD:185:LYS:HA	37:YD:209:ILE:HD12	1.93	0.50
39:a:88:ARG:HH21	39:a:90:LEU:HD21	1.77	0.50
39:b:361:ILE:HG13	39:b:365:LYS:NZ	2.27	0.50
39:b:414:ILE:O	39:b:418:GLU:HG3	2.12	0.50
41:b1:337:ALA:HB1	41:b1:341:ARG:HH22	1.77	0.50
41:b2:338:GLN:NE2	41:b2:342:GLU:OE2	2.33	0.50
42:f:356:ILE:HB	42:f:370:ILE:HD11	1.93	0.50
42:f:466:CYS:O	42:f:479:ALA:N	2.45	0.50
42:g:230:LEU:HD22	42:g:239:LEU:HD21	1.92	0.50
42:g:410:TYR:HE2	42:g:412:ILE:HG13	1.76	0.50
46:i2:1335:GLN:HE22	46:i2:1372:LEU:HA	1.76	0.50
5:8:100:TYR:CD2	8:JK:77:GLU:HG2	2.47	0.50
8:AE:6:SER:OG	8:AE:8:HIS:NE2	2.45	0.50
8:AG:386:GLU:CD	8:AG:390:ARG:HH21	2.19	0.50
9:AH:273:LEU:O	9:AH:292:GLN:NE2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B2:321:ARG:NH2	11:B2:332:ASP:OD1	2.45	0.50
8:BE:132:LEU:O	8:BE:164:LYS:NZ	2.41	0.50
8:BE:248:LEU:HD11	9:BF:222:TYR:HE2	1.76	0.50
8:BO:88:HIS:CG	8:BO:91:GLN:HE21	2.29	0.50
9:BP:375:GLN:HA	9:BP:378:PHE:HD2	1.77	0.50
12:C2:117:SER:HB2	12:C3:448:LEU:HD21	1.94	0.50
9:CB:77:ARG:NH1	9:CB:85:PHE:O	2.41	0.50
8:CC:326:LYS:O	8:CC:330:ALA:N	2.28	0.50
9:CD:133:PHE:HD2	9:CD:164:MET:HE1	1.76	0.50
8:CG:56:THR:HA	8:DG:285:GLN:HB2	1.94	0.50
9:CH:204:ASN:OD1	52:CH:502:GDP:N2	2.43	0.50
9:CL:245:GLN:O	8:CM:11:GLN:NE2	2.44	0.50
9:CN:407:GLU:HA	9:CN:410:GLU:HG2	1.94	0.50
8:CO:141:PHE:HE2	8:CO:203:MET:HE1	1.76	0.50
14:D3:200:GLN:HG3	14:D3:278:LEU:HG	1.93	0.50
14:D5:403:ARG:HA	14:D5:406:GLU:OE2	2.11	0.50
9:DB:169:VAL:HA	9:DB:202:ILE:HG22	1.94	0.50
9:DD:274:THR:OG1	9:DD:278:SER:HB2	2.12	0.50
8:DG:241:SER:OG	8:DG:250:VAL:O	2.26	0.50
8:DI:25:CYS:HB2	8:DI:30:ILE:HB	1.93	0.50
9:DJ:8:GLN:HE21	9:DJ:14:ASN:HA	1.76	0.50
8:DM:287:SER:N	8:DM:290:GLU:OE1	2.41	0.50
9:DN:62:ARG:NH1	9:DN:127:CYS:SG	2.84	0.50
15:E:90:ASP:O	15:E:118:GLN:NE2	2.41	0.50
8:EG:8:HIS:H	8:EG:8:HIS:CD2	2.30	0.50
9:EJ:323:MET:HE1	8:EK:224:TYR:CG	2.46	0.50
8:FA:262:TYR:OH	9:FB:391:ARG:O	2.29	0.50
8:FA:297:GLU:HG3	8:FA:299:ALA:H	1.75	0.50
8:FE:5:ILE:HD13	8:FE:125:LEU:HB3	1.93	0.50
9:FH:105:HIS:HA	9:FH:150:LEU:HD11	1.93	0.50
9:FJ:41:ASP:OD2	9:FJ:42:LEU:N	2.44	0.50
9:FL:86:ARG:NH1	9:GL:281:TYR:O	2.44	0.50
9:FL:245:GLN:OE1	8:FM:223:THR:OG1	2.29	0.50
8:GC:69:ASP:OD1	8:GC:70:LEU:N	2.45	0.50
8:GG:298:PRO:HA	8:GG:301:GLN:HG2	1.92	0.50
9:HD:107:THR:OG1	9:HD:108:GLU:N	2.42	0.50
8:HG:346:TRP:CD1	8:HG:347:CYS:HG	2.29	0.50
9:HJ:203:ASP:OD2	9:HJ:302:ALA:HB2	2.12	0.50
8:HM:251:ASP:HB3	8:HM:254:GLU:HG3	1.92	0.50
8:HO:28:HIS:HB3	8:HO:30:ILE:HG12	1.94	0.50
9:HP:271:ALA:HB1	9:HP:289:LEU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:I1:106:ARG:HB3	18:I1:108:LYS:NZ	2.26	0.50
8:IC:56:THR:HG22	8:IC:60:LYS:O	2.12	0.50
8:IC:292:THR:HG23	8:IC:317:MET:HE1	1.93	0.50
8:IG:133:GLN:NE2	8:IG:251:ASP:OD1	2.45	0.50
9:IH:187:LEU:HD11	9:IH:408:PHE:CE1	2.47	0.50
8:II:214:ARG:HG2	36:Y1:155:LYS:NZ	2.25	0.50
8:IO:9:VAL:HG23	8:IO:68:VAL:HG13	1.94	0.50
8:IO:188:ILE:HG21	8:IO:395:PHE:CD1	2.46	0.50
9:IP:10:GLY:HA2	9:IP:143:THR:OG1	2.12	0.50
9:IP:317:PHE:HB3	9:IP:321:MET:HE1	1.93	0.50
19:J4:68:LEU:O	8:OK:221:ARG:HB3	2.12	0.50
8:JK:1:MET:SD	8:JK:2:ARG:HG2	2.52	0.50
9:JL:325:GLU:OE2	8:JM:221:ARG:NH1	2.43	0.50
8:JO:342:GLN:HE21	34:X7:6:LEU:HD11	1.77	0.50
9:KD:293:MET:HA	9:KD:298:ASN:HD22	1.75	0.50
8:KE:85:GLN:O	8:LE:283:HIS:NE2	2.44	0.50
8:KK:345:ASP:OD2	9:KL:390:ARG:NH2	2.44	0.50
8:KK:371:VAL:HG22	8:KK:373:ARG:H	1.77	0.50
8:KM:12:ALA:O	8:KM:16:ILE:HG22	2.11	0.50
8:LA:137:ILE:HD13	8:LA:154:MET:HE1	1.92	0.50
9:LB:426:GLN:NE2	44:h1:64:MET:HE1	2.26	0.50
8:LE:211:ASP:OD1	8:LE:212:ILE:N	2.45	0.50
8:LG:297:GLU:O	8:LG:301:GLN:NE2	2.39	0.50
8:LM:204:VAL:HG12	8:LM:302:MET:HE1	1.94	0.50
9:LN:68:LEU:HB3	9:LN:96:GLY:HA2	1.93	0.50
17:M:206:GLN:OE1	30:W6:305:ARG:NH1	2.44	0.50
9:MF:361:LEU:HA	23:P:243:GLU:OE1	2.12	0.50
8:MI:130:THR:OG1	8:MI:131:GLY:N	2.45	0.50
9:MJ:173:PRO:HB3	9:MJ:384:GLN:NE2	2.27	0.50
8:MM:408:TYR:HB3	8:MM:413:MET:CE	2.41	0.50
15:N2:9:GLY:HA2	15:N2:11:ARG:HE	1.76	0.50
9:NB:286:VAL:O	9:NB:290:THR:HG23	2.10	0.50
8:NK:255:PHE:O	8:NK:259:LEU:HD13	2.11	0.50
8:NO:421:ALA:O	8:NO:425:LEU:HD22	2.12	0.50
24:O1:31:SER:OG	24:O1:32:ASN:N	2.45	0.50
24:O3:25:THR:HG22	24:O3:26:ALA:H	1.76	0.50
8:OA:186:ASN:OD1	8:OA:408:TYR:OH	2.29	0.50
9:OF:164:MET:SD	9:OF:196:THR:HA	2.51	0.50
9:OH:8:GLN:HE21	9:OH:14:ASN:HA	1.76	0.50
8:OI:239:THR:OG1	8:OI:243:ARG:NH1	2.44	0.50
9:OJ:291:GLN:HA	36:Y4:54:ARG:NE	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OK:108:TYR:HA	8:OK:112:LYS:HE2	1.92	0.50
9:OL:31:ASP:HB3	9:OL:37:HIS:HD2	1.76	0.50
9:PB:142:GLY:N	52:PB:502:GDP:O3B	2.38	0.50
8:PI:6:SER:HB3	8:PI:8:HIS:CD2	2.47	0.50
9:PN:325:GLU:HG3	8:PO:221:ARG:HH11	1.76	0.50
8:QC:21:TRP:CZ2	8:QC:65:ALA:HB2	2.46	0.50
8:QC:209:ILE:HD12	8:QC:209:ILE:H	1.74	0.50
9:QF:323:MET:HE3	9:QF:323:MET:HA	1.93	0.50
8:QG:137:ILE:HG22	8:QG:168:GLU:HA	1.93	0.50
9:QH:258:VAL:HB	8:QI:407:TRP:HZ2	1.77	0.50
8:QI:138:PHE:HA	8:QI:169:PHE:O	2.11	0.50
8:QM:7:ILE:HB	8:QM:137:ILE:HG13	1.92	0.50
11:R3:331:ARG:HH21	11:R4:208:ILE:HG21	1.77	0.50
11:R3:369:HIS:CE1	11:R4:27:ASN:HB3	2.47	0.50
8:RE:9:VAL:HG11	8:RE:150:ALA:HB2	1.94	0.50
8:RI:328:VAL:HG21	8:RI:355:ILE:HD11	1.92	0.50
8:RM:105:ARG:HH21	8:RM:110:ILE:HD11	1.76	0.50
9:RN:146:GLY:O	9:RN:149:THR:OG1	2.27	0.50
12:S3:166:GLU:HG3	12:S3:315:ARG:HD3	1.94	0.50
12:S3:294:VAL:HB	12:S5:50:TRP:HZ3	1.76	0.50
12:S8:167:MET:HA	12:S8:315:ARG:HD3	1.94	0.50
9:SB:50:TYR:HE2	9:SB:241:ARG:HD3	1.76	0.50
8:SC:66:VAL:HG12	8:SC:68:VAL:HG13	1.92	0.50
8:SC:425:LEU:HA	8:SC:428:LEU:HD23	1.93	0.50
8:SE:5:ILE:HD12	8:SE:125:LEU:HD13	1.93	0.50
8:SG:30:ILE:HD12	8:SG:30:ILE:H	1.77	0.50
9:SH:345:ILE:HA	8:SI:398:MET:CE	2.37	0.50
8:SK:425:LEU:HA	8:SK:428:LEU:HB2	1.93	0.50
14:T5:316:GLN:NE2	30:U0:271:ARG:HE	2.09	0.50
9:TB:420:SER:HA	9:TB:423:GLN:CD	2.37	0.50
9:TD:5:VAL:HB	9:TD:133:PHE:HD1	1.76	0.50
8:TE:3:GLU:H	8:TE:133:GLN:HG2	1.75	0.50
9:TJ:1:MET:SD	9:TJ:2:ARG:N	2.84	0.50
9:TJ:330:MET:HE1	8:TK:177:VAL:HG12	1.94	0.50
8:TK:1:MET:SD	8:TK:2:ARG:N	2.84	0.50
9:TL:236:VAL:HG23	9:TL:237:THR:HG23	1.93	0.50
30:U1:298:LYS:NZ	30:U1:302:ASP:OD1	2.40	0.50
30:U8:415:ARG:O	30:U8:415:ARG:NE	2.39	0.50
30:U9:201:ARG:HB2	30:U9:206:LEU:HD23	1.93	0.50
9:UD:36:TYR:CD1	9:UD:44:LEU:HD13	2.46	0.50
9:UD:267:MET:HE1	9:UD:371:SER:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UF:155:ILE:HD12	9:UF:159:TYR:HE2	1.75	0.50
9:UF:248:ALA:HA	9:UF:252:LYS:HG3	1.93	0.50
9:UH:169:VAL:HA	9:UH:202:ILE:HG22	1.93	0.50
8:UM:209:ILE:HD12	8:UM:227:LEU:HD23	1.93	0.50
8:UM:255:PHE:O	8:UM:259:LEU:HB2	2.11	0.50
30:V2:406:GLU:OE2	30:V3:257:LYS:NZ	2.43	0.50
30:V9:439:ASP:O	30:V9:442:GLN:HG2	2.11	0.50
8:VA:149:PHE:HA	8:VA:152:LEU:HG	1.94	0.50
9:VF:363:MET:HE3	9:VF:364:SER:H	1.77	0.50
8:VG:188:ILE:O	8:VG:191:THR:OG1	2.28	0.50
9:VJ:10:GLY:O	9:VJ:14:ASN:ND2	2.43	0.50
9:VL:375:GLN:HA	9:VL:378:PHE:HD2	1.76	0.50
8:VM:430:LYS:O	8:VM:434:GLU:HG2	2.11	0.50
31:W:172:PRO:HA	31:W:175:LYS:HG3	1.93	0.50
31:W:551:LYS:HE2	31:W:593:LYS:HB2	1.93	0.50
30:W0:198:ARG:HD2	30:W0:215:LEU:HD12	1.92	0.50
30:W0:244:ARG:NH1	30:W0:245:ASP:OD1	2.44	0.50
30:W6:253:ASP:OD2	30:W6:303:ASN:ND2	2.44	0.50
9:WF:332:ASN:O	9:WF:336:LYS:HG3	2.11	0.50
8:WK:164:LYS:HG2	37:YF:71:HIS:CE1	2.46	0.50
8:WO:164:LYS:HE2	37:YH:71:HIS:CG	2.46	0.50
35:XE:149:ILE:HG23	37:YE:62:ARG:HH22	1.77	0.50
35:XG:37:ILE:HD11	35:XG:161:ARG:CZ	2.41	0.50
37:YD:221:GLY:H	37:YD:224:ALA:HB2	1.76	0.50
37:YF:83:GLU:HB2	37:YF:86:LYS:HE3	1.92	0.50
39:b:445:GLU:O	39:b:449:ILE:HG12	2.12	0.50
41:b4:372:TYR:HA	41:b4:375:ARG:NH2	2.26	0.50
42:f:351:CYS:HB2	42:f:377:CYS:SG	2.52	0.50
42:f:426:THR:OG1	42:f:431:ARG:O	2.28	0.50
42:g:165:VAL:HG23	42:g:168:ARG:HH21	1.75	0.50
46:i2:1372:LEU:HB3	46:i2:1374:ILE:HG13	1.94	0.50
4:j1:300:VAL:HG22	4:j1:321:LEU:HG	1.93	0.50
4:j1:332:GLN:HA	4:j1:336:PRO:HG3	1.93	0.50
1:0:36:ARG:NH1	9:IN:122:LYS:O	2.43	0.50
2:1:515:LEU:HG	8:IE:221:ARG:HG3	1.93	0.50
4:5:289:ALA:HB3	4:5:330:GLU:HB3	1.94	0.50
4:6:212:ARG:NH2	30:V7:273:THR:HA	2.19	0.50
7:A1:81:LEU:HB2	7:A1:171:LEU:HD22	1.93	0.50
7:A1:310:ALA:HB2	7:A1:344:ILE:HG21	1.94	0.50
7:A3:138:LYS:NZ	22:M3:126:ASP:O	2.37	0.50
7:A4:338:ILE:HG12	7:A5:206:ARG:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AA:254:GLU:HG2	9:AB:98:GLY:HA2	1.94	0.50
8:AC:88:HIS:HE2	8:BC:284:GLU:CD	2.19	0.50
8:AC:324:VAL:HG12	8:AC:326:LYS:H	1.75	0.50
8:AE:320:ARG:HH21	8:AE:360:PRO:HA	1.77	0.50
8:AG:44:GLY:O	31:X:116:ASN:ND2	2.44	0.50
9:AJ:114:ASP:OD1	9:AJ:114:ASP:N	2.44	0.50
9:AL:45:GLU:HA	17:M:214:GLN:HE22	1.76	0.50
9:AL:324:LYS:O	9:AL:328:GLU:HG2	2.12	0.50
9:AN:7:LEU:HD13	9:AN:151:LEU:HD21	1.93	0.50
9:AN:377:LEU:HA	9:AN:380:ARG:HD3	1.93	0.50
11:B3:108:LEU:HD12	28:Q3:62:VAL:HG22	1.92	0.50
11:B5:301:GLU:OE1	14:D5:358:TYR:OH	2.27	0.50
8:BE:191:THR:HA	8:BE:194:THR:HG22	1.92	0.50
9:CB:295:ASP:OD1	9:CB:297:LYS:HG2	2.11	0.50
8:CG:152:LEU:O	8:CG:155:GLU:HG2	2.12	0.50
8:CG:274:PRO:HG2	8:CG:371:VAL:HG11	1.93	0.50
9:CL:272:PRO:HG3	9:CL:364:SER:HA	1.94	0.50
9:CN:8:GLN:HB3	9:CN:65:LEU:HA	1.93	0.50
14:D3:214:ASN:O	14:D3:218:LYS:HG2	2.12	0.50
8:DE:405:VAL:HG13	8:DE:418:PHE:HE2	1.75	0.50
8:DI:60:LYS:HD3	8:EG:283:HIS:HD2	1.77	0.50
8:DI:139:HIS:O	8:DI:170:ALA:HA	2.11	0.50
9:DJ:2:ARG:HD2	9:DJ:240:LEU:HD11	1.94	0.50
8:DM:302:MET:SD	8:DM:302:MET:N	2.82	0.50
9:DN:114:ASP:N	9:DN:114:ASP:OD1	2.44	0.50
9:DN:173:PRO:HG3	9:DN:380:ARG:HG2	1.94	0.50
9:DP:1:MET:HE3	9:DP:2:ARG:H	1.77	0.50
15:E:200:PHE:HE2	15:E:202:ASP:HB3	1.77	0.50
9:EB:8:GLN:HB3	9:EB:65:LEU:HA	1.92	0.50
8:EC:252:LEU:HA	8:EC:255:PHE:HE2	1.77	0.50
9:ED:245:GLN:O	8:EE:11:GLN:NE2	2.44	0.50
8:EI:147:SER:OG	8:EI:190:THR:OG1	2.21	0.50
8:EK:107:HIS:HA	8:EK:152:LEU:HD23	1.93	0.50
9:EL:50:TYR:HE1	9:EL:241:ARG:HD3	1.77	0.50
8:FA:346:TRP:HH2	8:FA:435:VAL:HG13	1.76	0.50
9:GB:247:ASN:O	9:GB:252:LYS:NZ	2.38	0.50
8:GC:30:ILE:HG22	8:GC:34:GLY:HA2	1.92	0.50
8:GI:201:ALA:O	8:GI:268:PRO:HD2	2.11	0.50
9:GJ:253:LEU:O	9:GJ:257:MET:N	2.44	0.50
8:HA:324:VAL:HG12	8:HA:326:LYS:H	1.75	0.50
8:HC:377:MET:HA	8:HC:377:MET:HE2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HH:324:LYS:HZ1	8:HI:222:PRO:HB2	1.77	0.50
9:HJ:310:TYR:CD1	9:HJ:371:SER:HB2	2.46	0.50
8:HK:223:THR:HG23	8:HK:225:THR:H	1.77	0.50
8:HM:257:THR:HA	9:HN:397:TRP:CH2	2.46	0.50
8:HO:186:ASN:OD1	8:HO:408:TYR:OH	2.27	0.50
18:I1:101:ASP:O	18:I1:107:LYS:NZ	2.32	0.50
9:IB:237:THR:OG1	9:IB:241:ARG:NH1	2.41	0.50
9:ID:167:PHE:CE2	9:ID:233:MET:HG2	2.47	0.50
8:IE:339:ARG:O	8:IE:342:GLN:NE2	2.45	0.50
8:IG:297:GLU:OE2	8:IG:297:GLU:N	2.37	0.50
9:IN:246:LEU:HD12	9:IN:323:MET:HE1	1.93	0.50
19:J4:230:VAL:C	19:J4:231:LYS:HD3	2.36	0.50
19:J5:28:ILE:HG22	19:J5:80:GLY:HA3	1.94	0.50
8:JE:158:SER:HB3	8:JE:197:HIS:CE1	2.46	0.50
9:JJ:209:ASP:O	9:JJ:213:ARG:HG2	2.11	0.50
8:JO:172:TYR:N	8:JO:204:VAL:O	2.44	0.50
9:JP:337:ASN:HB3	9:JP:340:TYR:HD2	1.76	0.50
17:K:249:LYS:O	17:K:253:VAL:HG13	2.11	0.50
20:K1:101:LEU:HD23	47:o:164:VAL:HG22	1.93	0.50
8:KG:251:ASP:OD1	8:KG:252:LEU:N	2.39	0.50
9:KN:285:THR:HB	9:KN:287:PRO:HD2	1.92	0.50
9:KN:304:ASP:OD2	9:KN:306:ARG:NH1	2.44	0.50
8:KO:332:ILE:O	8:KO:335:ILE:HG22	2.12	0.50
9:KP:125:GLU:OE2	9:KP:159:TYR:OH	2.29	0.50
21:L1:91:TYR:HD2	43:i:201:LYS:HG2	1.77	0.50
9:LB:273:LEU:O	9:LB:292:GLN:NE2	2.35	0.50
9:LH:219:THR:O	9:LH:219:THR:OG1	2.26	0.50
8:LI:264:ARG:HH21	43:j:84:LYS:NZ	2.10	0.50
8:LI:338:LYS:HE3	41:b3:382:LEU:HD13	1.92	0.50
9:LJ:11:GLN:O	9:LJ:15:GLN:HG2	2.12	0.50
9:LJ:114:ASP:OD1	9:LJ:115:SER:N	2.44	0.50
9:LL:268:PRO:HG2	9:LL:300:MET:SD	2.51	0.50
9:MD:285:THR:HB	9:MD:287:PRO:HD2	1.94	0.50
8:ME:3:GLU:HA	8:ME:51:THR:HA	1.92	0.50
9:MF:69:GLU:HG2	9:MF:71:GLY:H	1.77	0.50
8:MG:392:ASP:HB3	43:i:149:LYS:NZ	2.26	0.50
9:MN:214:THR:HG22	9:MN:297:LYS:HE3	1.94	0.50
9:MN:343:GLU:OE1	9:MN:343:GLU:N	2.45	0.50
8:MO:191:THR:HA	8:MO:194:THR:HG22	1.94	0.50
9:MP:291:GLN:NE2	9:MP:292:GLN:OE1	2.41	0.50
9:ND:299:MET:HG3	9:ND:301:ALA:H	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NG:8:HIS:H	8:NG:8:HIS:CD2	2.28	0.50
9:NL:256:ASN:OD1	8:NM:181:VAL:HB	2.12	0.50
8:NM:163:LYS:HD2	36:Y5:213:THR:HG22	1.94	0.50
8:NM:188:ILE:O	8:NM:191:THR:OG1	2.28	0.50
9:NN:244:GLY:N	9:NN:247:ASN:OD1	2.38	0.50
9:NP:383:GLU:H	9:NP:383:GLU:CD	2.19	0.50
9:OF:215:LEU:HD21	9:OF:273:LEU:HB3	1.93	0.50
8:OI:287:SER:N	8:OI:290:GLU:OE1	2.40	0.50
9:PB:323:MET:HA	9:PB:326:VAL:HB	1.93	0.50
9:PD:310:TYR:CE2	9:PD:371:SER:HB2	2.46	0.50
8:PG:335:ILE:HA	8:PG:338:LYS:HD3	1.92	0.50
9:PH:6:HIS:CD2	9:PH:21:TRP:HE1	2.30	0.50
8:PI:220:GLU:OE1	8:PI:220:GLU:N	2.32	0.50
8:PI:269:LEU:N	8:PI:379:SER:O	2.37	0.50
28:Q2:17:THR:HG23	12:S7:383:LYS:HE2	1.93	0.50
8:QE:404:PHE:CE1	8:QE:407:TRP:HB2	2.46	0.50
9:QH:67:ASP:HB3	9:QH:73:MET:HE2	1.93	0.50
8:QK:136:LEU:HA	8:QK:167:LEU:HG	1.92	0.50
8:QO:52:PHE:HE1	8:QO:243:ARG:HD3	1.77	0.50
9:RD:20:PHE:CD1	9:RD:233:MET:HE1	2.47	0.50
8:RE:90:GLU:OE2	8:RE:90:GLU:N	2.31	0.50
9:RH:102:ALA:HB1	9:RH:403:MET:HE1	1.92	0.50
8:RI:62:VAL:HA	8:SG:283:HIS:HE2	1.75	0.50
8:RI:381:THR:OG1	8:RI:382:THR:N	2.44	0.50
8:RO:167:LEU:HD21	8:RO:255:PHE:HZ	1.76	0.50
12:S2:87:ARG:HG3	12:S2:89:THR:H	1.76	0.50
8:SA:259:LEU:HD21	8:SA:268:PRO:HG3	1.94	0.50
9:SB:284:LEU:HD13	9:SB:362:LYS:HE2	1.93	0.50
8:SC:311:LYS:H	8:SC:382:THR:HG22	1.77	0.50
8:SE:32:PRO:HA	8:SE:83:TYR:CE1	2.46	0.50
8:SE:200:CYS:HA	8:SE:266:HIS:HB2	1.93	0.50
8:SK:2:ARG:HB3	8:SK:242:LEU:HD23	1.94	0.50
14:T1:134:GLN:HG3	14:T1:279:ARG:HG2	1.94	0.50
14:T2:22:LEU:HD23	14:T2:23:PRO:HD3	1.93	0.50
14:T4:101:ARG:NH1	30:U0:486:THR:O	2.45	0.50
9:TB:31:ASP:OD1	9:TB:35:THR:N	2.44	0.50
8:TC:88:HIS:HB2	8:UC:283:HIS:HE1	1.76	0.50
9:TD:74:ASP:OD1	9:TD:75:SER:N	2.45	0.50
8:TE:209:ILE:HD12	8:TE:227:LEU:HD23	1.92	0.50
8:TG:53:PHE:HB3	8:TG:61:HIS:HB3	1.94	0.50
9:TJ:309:ARG:HG3	9:TJ:426:GLN:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U3:170:MET:HA	30:U3:170:MET:HE2	1.94	0.50
30:U3:355:ASN:O	30:U3:359:THR:HG23	2.12	0.50
30:U5:231:LYS:HZ3	30:U5:235:ARG:HH11	1.59	0.50
30:U5:452:GLU:HA	30:U5:455:LEU:HD23	1.94	0.50
30:U6:391:MET:HG3	30:U6:395:MET:HE2	1.91	0.50
9:UB:322:SER:OG	8:UC:222:PRO:O	2.23	0.50
8:UE:32:PRO:HA	8:UE:86:LEU:HD12	1.94	0.50
9:UF:63:ALA:HB3	9:UF:85:PHE:HE1	1.77	0.50
9:UF:173:PRO:HG3	9:UF:380:ARG:HG2	1.92	0.50
8:UM:104:ALA:HA	8:UM:413:MET:HE3	1.93	0.50
8:UM:136:LEU:HA	8:UM:167:LEU:HG	1.92	0.50
9:UN:358:PRO:HG2	9:UN:361:LEU:HB3	1.93	0.50
8:UO:58:ALA:HB3	8:UO:60:LYS:HE3	1.92	0.50
30:V5:210:ASN:O	30:V5:214:ASN:ND2	2.44	0.50
30:V6:113:ALA:O	30:V6:117:THR:HG23	2.12	0.50
30:V8:269:ASN:CG	30:V8:270:LEU:H	2.19	0.50
8:VI:339:ARG:O	8:VI:339:ARG:NE	2.45	0.50
9:VJ:270:PHE:CD2	9:VJ:272:PRO:HD2	2.47	0.50
31:W:542:TYR:HB3	31:W:597:GLN:NE2	2.27	0.50
8:WA:248:LEU:HD12	8:WA:353:VAL:HG12	1.94	0.50
9:WB:107:THR:OG1	9:WB:108:GLU:OE1	2.29	0.50
8:WG:387:ALA:HA	8:WG:390:ARG:HH21	1.76	0.50
8:WI:326:LYS:HG3	9:WJ:212:PHE:HE1	1.76	0.50
8:WM:288:VAL:O	8:WM:292:THR:HG22	2.12	0.50
9:WN:239:CYS:SG	9:WN:248:ALA:N	2.84	0.50
36:Y5:205:ARG:HD3	36:Y5:205:ARG:N	2.25	0.50
37:YA:57:ARG:NH2	37:YA:102:GLU:OE2	2.45	0.50
31:Z:221:ARG:NH2	31:Z:255:LEU:O	2.44	0.50
31:Z:303:VAL:HG11	31:Z:318:TYR:HB2	1.93	0.50
39:a:178:GLN:O	39:a:182:LYS:HG2	2.11	0.50
41:b2:458:TYR:O	41:b2:462:ARG:HG2	2.12	0.50
42:g:334:ALA:O	42:g:336:GLN:NE2	2.42	0.50
43:h:126:VAL:HA	43:h:132:ASP:O	2.11	0.50
43:k:187:ARG:HG3	43:k:251:TYR:CE1	2.47	0.50
2:1:504:VAL:O	2:1:508:LYS:HG2	2.12	0.50
2:1:551:TYR:OH	9:IF:282:ARG:NH2	2.45	0.50
4:5:57:HIS:CG	8:IC:45:GLY:H	2.30	0.50
1:7:211:SER:O	1:7:215:GLN:HG2	2.11	0.50
6:A:30:HIS:O	6:A:34:MET:HG3	2.12	0.50
9:AJ:304:ASP:HB3	9:AJ:307:HIS:CD2	2.47	0.50
8:AK:132:LEU:O	8:AK:164:LYS:NZ	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AM:347:CYS:HA	9:AN:388:MET:HE1	1.94	0.50
9:AN:68:LEU:HB3	9:AN:96:GLY:HA2	1.94	0.50
9:AP:214:THR:O	9:AP:216:LYS:NZ	2.44	0.50
9:AP:282:ARG:HH22	9:MP:86:ARG:HD3	1.77	0.50
11:B4:342:VAL:O	11:B4:346:GLU:HG3	2.12	0.50
9:BB:6:HIS:HD2	9:BB:21:TRP:NE1	2.10	0.50
9:BB:247:ASN:OD1	9:BB:248:ALA:N	2.45	0.50
8:BC:132:LEU:O	8:BC:164:LYS:NZ	2.44	0.50
9:BH:273:LEU:O	9:BH:292:GLN:NE2	2.35	0.50
9:BJ:1:MET:N	9:BJ:3:GLU:OE2	2.45	0.50
8:BK:315:CYS:HB3	8:BK:317:MET:HE3	1.92	0.50
9:BN:211:CYS:HA	9:BN:215:LEU:HB2	1.93	0.50
12:C0:100:TYR:CE1	17:O8:86:ILE:HD11	2.46	0.50
12:C1:85:SER:OG	12:C1:86:ASN:N	2.44	0.50
9:CH:40:SER:HB2	40:a2:6:THR:HB	1.94	0.50
9:CN:171:PRO:O	9:CN:380:ARG:NH1	2.40	0.50
14:D4:78:ARG:HD3	14:D5:331:ASP:OD1	2.12	0.50
9:DB:257:MET:SD	9:DB:312:THR:OG1	2.63	0.50
8:DO:194:THR:O	8:DO:266:HIS:NE2	2.40	0.50
8:DQ:132:LEU:O	8:DQ:164:LYS:NZ	2.40	0.50
8:EA:346:TRP:CE3	9:EB:391:ARG:HG3	2.47	0.50
8:EC:105:ARG:NH2	8:EC:110:ILE:HD11	2.27	0.50
8:EC:139:HIS:NE2	8:EC:168:GLU:OE2	2.38	0.50
8:EG:54:SER:HA	8:EG:64:ARG:HH21	1.76	0.50
8:EG:114:ILE:HA	8:EG:117:LEU:HD13	1.94	0.50
9:EJ:239:CYS:SG	9:EJ:248:ALA:N	2.83	0.50
9:EL:8:GLN:HB3	9:EL:65:LEU:HA	1.92	0.50
9:EL:54:ALA:HA	9:FL:283:ALA:HB2	1.94	0.50
8:FA:346:TRP:HB2	9:FB:388:MET:HA	1.92	0.50
9:FB:323:MET:HE1	8:FC:224:TYR:CG	2.47	0.50
8:FE:166:LYS:N	8:FE:199:ASP:OD2	2.38	0.50
8:FE:298:PRO:HA	8:FE:301:GLN:HG2	1.93	0.50
9:FF:31:ASP:OD1	9:FF:35:THR:N	2.44	0.50
8:FG:50:ASN:OD1	8:FG:50:ASN:N	2.42	0.50
8:GA:276:ILE:HD11	8:GA:286:LEU:HD11	1.93	0.50
8:GA:311:LYS:H	8:GA:382:THR:HG22	1.77	0.50
8:GE:239:THR:HB	8:GE:243:ARG:NH2	2.27	0.50
9:GH:289:LEU:HD11	9:GH:363:MET:HE3	1.94	0.50
9:GL:344:TRP:H	9:GL:344:TRP:CD1	2.30	0.50
9:HB:294:PHE:HE2	9:HB:333:VAL:HG21	1.77	0.50
8:HE:71:GLU:HG3	8:HE:98:ASP:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HH:404:ASP:HB2	9:HH:406:MET:HE3	1.92	0.50
8:HI:161:TYR:HB3	8:HI:164:LYS:HG2	1.93	0.50
9:HL:281:TYR:O	9:HL:282:ARG:HB2	2.10	0.50
9:HL:344:TRP:H	9:HL:344:TRP:CD1	2.29	0.50
18:I1:72:TRP:O	18:I1:76:ARG:HG2	2.11	0.50
8:IA:183:GLU:HA	8:IA:186:ASN:HD22	1.77	0.50
9:IB:325:GLU:HB3	9:IB:329:GLN:HE21	1.75	0.50
8:IC:104:ALA:HB1	8:IC:411:GLU:HG2	1.94	0.50
8:IE:108:TYR:HA	8:IE:112:LYS:HE3	1.93	0.50
9:IF:328:GLU:OE1	9:IF:332:ASN:ND2	2.45	0.50
9:IJ:313:VAL:HG12	9:IJ:349:VAL:HG13	1.93	0.50
9:IN:344:TRP:CG	8:IO:401:LYS:HZ1	2.30	0.50
19:J3:174:ARG:NH2	19:J3:177:THR:OG1	2.44	0.50
19:J3:207:LYS:HA	19:J3:210:VAL:HB	1.93	0.50
19:J4:263:ALA:O	19:J4:267:GLU:HG2	2.11	0.50
8:JC:155:GLU:HA	8:JC:197:HIS:ND1	2.27	0.50
8:JC:394:LYS:O	8:JC:398:MET:HG2	2.12	0.50
8:JE:251:ASP:OD1	8:JE:252:LEU:N	2.37	0.50
8:JG:258:ASN:HD21	9:JH:178:THR:HG23	1.76	0.50
9:JH:396:HIS:CE1	9:JH:397:TRP:CE3	3.00	0.50
8:JI:247:ALA:H	8:JI:357:TYR:HE2	1.58	0.50
8:JQ:138:PHE:CD1	8:JQ:169:PHE:HB2	2.47	0.50
8:JQ:217:LEU:HD21	8:JQ:275:VAL:HG12	1.92	0.50
8:JQ:265:ILE:HG22	8:JQ:380:ASN:HD21	1.76	0.50
8:JQ:342:GLN:N	8:JQ:342:GLN:OE1	2.44	0.50
9:KB:372:THR:HG21	9:KB:426:GLN:HB2	1.94	0.50
9:KH:423:GLN:NE2	9:KH:426:GLN:OE1	2.39	0.50
9:KL:130:LEU:O	9:KL:162:ARG:NH1	2.44	0.50
8:KM:167:LEU:HD23	8:KM:202:PHE:HE2	1.77	0.50
8:KM:260:VAL:HB	9:KN:397:TRP:HZ2	1.77	0.50
9:KN:70:PRO:HA	9:KN:73:MET:HE1	1.93	0.50
8:KO:105:ARG:NE	8:KO:110:ILE:HD11	2.21	0.50
9:KP:91:VAL:HG11	9:KP:116:VAL:HG22	1.93	0.50
17:L:215:ARG:NH2	17:L:245:ASP:OD1	2.43	0.50
8:LC:2:ARG:HH11	9:LD:70:PRO:HG2	1.76	0.50
9:LD:178:THR:HB	9:LD:181:GLU:HB2	1.92	0.50
8:LE:50:ASN:O	8:LE:64:ARG:NH1	2.45	0.50
9:LJ:54:ALA:HA	9:MJ:283:ALA:HB2	1.93	0.50
8:MA:2:ARG:HB3	8:MA:242:LEU:HD23	1.93	0.50
9:MD:198:GLU:OE1	9:MD:254:ALA:HA	2.12	0.50
9:MF:245:GLN:HB2	9:MF:323:MET:HE1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MI:202:PHE:CE1	8:MI:378:LEU:HD22	2.47	0.50
8:MO:145:THR:OG1	50:MO:501:GTP:O1B	2.26	0.50
8:MO:194:THR:O	8:MO:266:HIS:NE2	2.31	0.50
9:MP:2:ARG:HH21	9:MP:46:ARG:NH1	2.09	0.50
9:NJ:125:GLU:HG2	36:Y4:51:TYR:HD1	1.77	0.50
9:NJ:131:GLN:OE1	9:NJ:251:ARG:NH2	2.38	0.50
8:NO:150:ALA:O	8:NO:154:MET:HG2	2.12	0.50
8:NO:175:PRO:HB3	8:NO:390:ARG:CZ	2.42	0.50
9:NP:23:VAL:HG21	9:NP:230:SER:HB3	1.94	0.50
25:O5:320:VAL:HG21	25:O5:323:TRP:CZ2	2.46	0.50
8:OC:298:PRO:HB3	8:OC:307:PRO:HD2	1.94	0.50
9:OD:101:TRP:HB3	9:OD:398:TYR:HE2	1.76	0.50
8:OE:330:ALA:O	8:OE:334:THR:HG23	2.12	0.50
8:OI:242:LEU:HD11	8:OI:252:LEU:HD11	1.94	0.50
8:OK:314:ALA:HB3	8:OK:380:ASN:ND2	2.27	0.50
27:P4:131:ASP:N	27:P4:131:ASP:OD2	2.44	0.50
8:PC:175:PRO:HD3	8:PC:304:LYS:HE2	1.93	0.50
9:PF:308:GLY:HA2	9:PF:426:GLN:HE22	1.76	0.50
8:PI:311:LYS:HZ3	8:PI:342:GLN:HB3	1.76	0.50
8:PO:345:ASP:N	8:PO:345:ASP:OD1	2.38	0.50
8:QC:12:ALA:O	8:QC:16:ILE:HG12	2.12	0.50
9:QF:170:VAL:HG11	9:QF:377:LEU:HD21	1.94	0.50
9:QF:202:ILE:HG22	9:QF:300:MET:HE3	1.94	0.50
9:QF:257:MET:HB3	9:QF:266:PHE:CZ	2.47	0.50
8:QK:88:HIS:HE1	8:RK:280:LYS:HD2	1.76	0.50
8:QK:317:MET:HE1	8:QK:375:VAL:HG23	1.94	0.50
9:QN:8:GLN:HB3	9:QN:65:LEU:HA	1.93	0.50
9:QN:330:MET:N	9:QN:330:MET:SD	2.85	0.50
8:QO:271:THR:HB	8:QO:377:MET:HB3	1.92	0.50
11:R3:75:LYS:NZ	11:R3:79:ASP:OD2	2.43	0.50
9:RJ:337:ASN:HB3	9:RJ:340:TYR:HD2	1.77	0.50
9:RP:181:GLU:CD	9:RP:182:PRO:HD3	2.37	0.50
12:S0:341:ASN:HA	12:S0:344:ASN:HD22	1.75	0.50
12:S1:133:GLN:HE22	30:V7:151:PHE:HA	1.77	0.50
12:S3:475:SER:OG	12:S3:476:MET:SD	2.70	0.50
12:S4:180:ARG:HG3	12:S4:487:VAL:HA	1.93	0.50
12:S4:425:TYR:O	12:S4:429:GLU:HG2	2.12	0.50
12:S5:123:ASP:HB3	12:S6:437:ARG:HH21	1.76	0.50
12:S9:363:THR:HG22	12:S9:367:LYS:HZ2	1.76	0.50
12:S9:369:LEU:HD11	14:T0:43:THR:H	1.77	0.50
9:SB:421:GLU:HA	9:SB:424:GLN:CD	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SD:114:ASP:N	9:SD:114:ASP:OD1	2.42	0.50
8:SE:338:LYS:HE2	8:SE:340:THR:HB	1.92	0.50
8:SK:317:MET:HE3	8:SK:318:LEU:N	2.26	0.50
9:SL:1:MET:SD	9:SL:2:ARG:N	2.85	0.50
9:SL:41:ASP:N	9:SL:41:ASP:OD1	2.44	0.50
9:SL:52:ASN:OD1	9:SL:62:ARG:NH1	2.44	0.50
9:SN:164:MET:HB2	9:SN:197:ASP:H	1.76	0.50
9:SN:318:ARG:HG2	9:SN:358:PRO:HD3	1.94	0.50
14:T0:68:PHE:O	14:T0:71:ARG:HB2	2.11	0.50
8:TA:209:ILE:HD12	8:TA:227:LEU:HD23	1.94	0.50
9:TJ:245:GLN:NE2	9:TJ:355:ASP:OD1	2.44	0.50
8:TK:313:MET:N	8:TK:313:MET:SD	2.84	0.50
9:TL:134:GLN:CD	9:TL:233:MET:HE1	2.37	0.50
9:TL:324:LYS:NZ	8:TM:214:ARG:HB2	2.26	0.50
30:U2:194:CYS:HB3	30:U2:215:LEU:HD21	1.94	0.50
30:U5:74:ARG:HD2	30:U5:82:LEU:HD21	1.93	0.50
30:U7:373:ASN:O	30:U7:376:MET:HG3	2.12	0.50
9:UB:314:ALA:HB3	9:UB:368:ILE:HG23	1.94	0.50
9:UH:252:LYS:HD3	8:UI:100:ALA:HA	1.92	0.50
9:UJ:150:LEU:O	9:UJ:153:SER:OG	2.23	0.50
8:UK:286:LEU:O	8:UK:373:ARG:NH1	2.44	0.50
9:UL:8:GLN:HB3	9:UL:65:LEU:HA	1.92	0.50
9:UL:205:GLU:O	9:UL:209:ASP:N	2.45	0.50
8:UO:21:TRP:HA	8:UO:24:TYR:CD1	2.46	0.50
30:V3:160:LEU:HB2	30:V3:250:LEU:CD2	2.42	0.50
30:V7:160:LEU:HB2	30:V7:250:LEU:HD21	1.94	0.50
8:VA:147:SER:OG	8:VA:190:THR:OG1	2.25	0.50
9:VH:256:ASN:CG	9:VH:350:LYS:HD2	2.37	0.50
8:VM:70:LEU:HB3	8:VM:98:ASP:HA	1.93	0.50
9:VN:147:MET:HA	9:VN:147:MET:HE3	1.93	0.50
8:VO:145:THR:HB	50:VO:501:GTP:PB	2.52	0.50
31:W:120:VAL:H	31:W:127:GLN:HE22	1.58	0.50
8:WC:141:PHE:HD2	8:WC:187:SER:HA	1.75	0.50
9:WN:49:VAL:HG11	9:WN:241:ARG:HG2	1.93	0.50
9:WP:344:TRP:CD1	9:WP:344:TRP:H	2.29	0.50
31:X:635:PHE:HB2	31:X:698:ASN:HD22	1.76	0.50
35:XC:121:MET:N	35:XC:121:MET:SD	2.85	0.50
31:Y:393:TYR:OH	31:Y:397:GLY:O	2.23	0.50
37:YD:122:GLY:O	37:YD:125:LYS:NZ	2.44	0.50
37:YF:66:PRO:C	37:YF:81:LYS:HZ3	2.19	0.50
39:a:105:SER:HB2	43:j:253:ALA:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:a2:124:THR:HG22	40:a2:128:ILE:HG23	1.92	0.50
40:a4:35:MET:HA	40:a4:38:CYS:HB3	1.93	0.50
41:b4:193:ASP:OD1	41:b4:195:ALA:N	2.40	0.50
42:f:165:VAL:HG23	42:f:168:ARG:HH21	1.75	0.50
42:f:561:VAL:HG12	42:f:571:VAL:HG13	1.93	0.50
42:g:404:GLU:HA	43:k:13:LEU:HD22	1.94	0.50
4:j1:118:LYS:HD3	4:j1:171:PHE:HE2	1.75	0.50
3:3:453:MET:HE1	26:P1:101:TRP:HD1	1.77	0.50
3:4:458:GLN:HB3	3:4:462:ARG:HH12	1.76	0.50
1:7:78:TYR:HB3	9:JD:276:ARG:HH21	1.77	0.50
9:AF:195:ASN:O	9:AF:195:ASN:ND2	2.35	0.50
9:AH:305:PRO:HB2	9:AH:310:TYR:HE1	1.77	0.50
9:AH:372:THR:HG23	9:AH:422:TYR:HD1	1.77	0.50
9:AH:417:ASP:OD2	37:YD:175:ARG:NH1	2.33	0.50
8:AI:402:ARG:NH1	37:YD:233:PRO:O	2.45	0.50
8:AM:111:GLY:O	8:AM:115:VAL:HG23	2.11	0.50
11:B1:31:GLN:HG3	11:B2:369:HIS:CD2	2.47	0.50
11:B2:317:ARG:HD2	11:B2:338:LEU:HD21	1.93	0.50
11:B4:264:THR:HA	11:B4:267:LYS:HD3	1.93	0.50
11:B4:389:LYS:HD2	11:B4:409:ASP:HB2	1.94	0.50
11:B5:254:LEU:HD21	11:B5:397:LEU:HD11	1.94	0.50
8:BI:30:ILE:HD12	8:BI:61:HIS:HD2	1.77	0.50
9:BL:140:GLY:HA3	9:BL:181:GLU:OE2	2.11	0.50
9:BL:330:MET:HE3	9:BL:349:VAL:HG23	1.92	0.50
9:BP:5:VAL:HG22	9:BP:62:ARG:HD2	1.93	0.50
9:CB:282:ARG:NH2	9:CB:292:GLN:OE1	2.45	0.50
9:CJ:152:ILE:HG13	9:CJ:164:MET:HE3	1.93	0.50
8:CM:319:TYR:CE2	8:CM:328:VAL:HG22	2.46	0.50
9:CN:290:THR:HG21	9:CN:329:GLN:HB3	1.94	0.50
14:D1:284:CYS:SG	32:X0:202:ARG:NH1	2.85	0.50
8:DE:245:ASP:OD2	8:DE:245:ASP:N	2.45	0.50
9:DF:323:MET:HA	9:DF:326:VAL:HG12	1.93	0.50
9:DJ:252:LYS:NZ	50:DK:501:GTP:O3G	2.44	0.50
9:EB:273:LEU:O	9:EB:292:GLN:NE2	2.44	0.50
8:EE:270:ALA:HB3	8:EE:302:MET:HE3	1.93	0.50
9:EJ:73:MET:HA	9:EJ:76:VAL:HB	1.94	0.50
9:GF:337:ASN:HB3	9:GF:340:TYR:HD2	1.76	0.50
9:GH:156:ARG:NH1	9:GH:197:ASP:OD1	2.45	0.50
8:GK:227:LEU:O	8:GK:231:ILE:HG12	2.12	0.50
8:GM:53:PHE:HB3	8:GM:61:HIS:HB3	1.92	0.50
9:HB:245:GLN:HE21	9:HB:323:MET:CE	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HD:272:PRO:HG3	9:HD:364:SER:HA	1.94	0.50
8:HE:4:CYS:HA	8:HE:134:GLY:O	2.11	0.50
8:HE:90:GLU:HG2	8:HE:121:ARG:NH1	2.25	0.50
8:HG:234:ILE:HD11	8:HG:272:TYR:HB2	1.94	0.50
8:HK:203:MET:HE2	8:HK:267:PHE:HD2	1.77	0.50
9:HL:267:MET:HE2	9:HL:303:CYS:SG	2.52	0.50
9:HN:113:VAL:O	9:HN:117:LEU:HD13	2.11	0.50
9:IB:87:PRO:HD3	8:JC:283:HIS:CE1	2.47	0.50
9:ID:324:LYS:HE3	8:IE:210:TYR:CE1	2.47	0.50
8:II:114:ILE:O	8:II:118:VAL:HG12	2.11	0.50
8:II:326:LYS:HZ2	9:IJ:219:THR:HA	1.75	0.50
9:IL:154:LYS:O	9:IL:154:LYS:NZ	2.39	0.50
9:IP:73:MET:HA	9:IP:73:MET:HE3	1.94	0.50
19:J4:202:ILE:O	19:J4:206:LYS:HG3	2.11	0.50
8:JQ:183:GLU:HG2	8:JQ:184:PRO:HD3	1.93	0.50
8:KC:238:ILE:HD11	8:KC:378:LEU:HD11	1.94	0.50
9:KD:308:GLY:HA3	9:KD:373:ALA:HB2	1.93	0.50
8:KE:183:GLU:OE1	8:KE:183:GLU:N	2.32	0.50
8:KI:346:TRP:HZ2	8:KI:435:VAL:HG13	1.77	0.50
9:KL:346:PRO:HD3	8:KM:397:LEU:HD11	1.92	0.50
21:L1:133:MET:HA	21:L1:136:VAL:HG23	1.92	0.50
9:LF:273:LEU:H	9:LF:292:GLN:NE2	2.10	0.50
9:LJ:309:ARG:NH2	9:LJ:339:SER:O	2.44	0.50
8:LM:420:GLU:OE1	43:k:80:ARG:NE	2.45	0.50
9:LN:217:LEU:HD12	9:LN:220:PRO:HB3	1.94	0.50
8:MG:215:ARG:NH1	43:i:127:ASP:OD2	2.45	0.50
8:MI:191:THR:HG21	8:MI:425:LEU:HD12	1.94	0.50
9:NF:87:PRO:HD3	9:OF:281:TYR:CD2	2.47	0.50
9:NF:292:GLN:NE2	9:NF:298:ASN:OD1	2.40	0.50
9:NF:363:MET:HA	9:NF:363:MET:HE3	1.92	0.50
8:NI:272:TYR:HE1	8:NI:374:ALA:HB1	1.76	0.50
9:NJ:67:ASP:OD2	9:NJ:72:THR:OG1	2.27	0.50
9:OB:167:PHE:CD1	9:OB:233:MET:HE3	2.47	0.50
8:OG:311:LYS:HE3	8:OG:342:GLN:HG2	1.93	0.50
9:OH:187:LEU:HD11	9:OH:408:PHE:CE2	2.47	0.50
8:OK:272:TYR:HE1	8:OK:374:ALA:HB1	1.76	0.50
9:OL:228:LEU:HD11	9:OL:300:MET:HE1	1.93	0.50
9:OL:313:VAL:HG13	9:OL:367:PHE:HE1	1.76	0.50
8:OM:206:ASN:OD1	50:OM:501:GTP:N2	2.45	0.50
9:OP:182:PRO:HG2	9:OP:384:GLN:NE2	2.27	0.50
27:P6:157:LEU:HB2	17:P9:56:LEU:CD2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PB:1:MET:N	9:PB:128:ASP:OD2	2.42	0.50
9:PD:7:LEU:HD23	9:PD:64:VAL:HB	1.93	0.50
9:PF:69:GLU:HG2	9:PF:71:GLY:H	1.76	0.50
8:PI:294:ALA:O	8:PI:300:ASN:ND2	2.43	0.50
8:PM:1:MET:HE1	8:PM:51:THR:HG22	1.93	0.50
8:PM:26:LEU:HD11	8:PM:363:VAL:HA	1.92	0.50
8:PM:31:GLN:N	8:PM:31:GLN:OE1	2.43	0.50
9:PN:325:GLU:O	9:PN:329:GLN:NE2	2.44	0.50
9:QD:211:CYS:HB3	9:QD:220:PRO:HG3	1.93	0.50
8:QI:203:MET:N	8:QI:203:MET:SD	2.84	0.50
8:QO:108:TYR:HA	8:QO:112:LYS:HE3	1.93	0.50
8:QO:171:ILE:HG12	50:QO:501:GTP:N2	2.27	0.50
11:R0:131:ASP:N	11:R0:131:ASP:OD1	2.41	0.50
8:RC:36:MET:HG2	8:RC:61:HIS:NE2	2.26	0.50
8:RC:345:ASP:N	8:RC:345:ASP:OD1	2.44	0.50
9:RD:135:LEU:HD21	9:RD:152:ILE:HG12	1.94	0.50
9:RF:69:GLU:HG2	9:RF:71:GLY:H	1.77	0.50
9:RJ:274:THR:HB	9:RJ:278:SER:HB2	1.94	0.50
9:RJ:276:ARG:O	9:RJ:280:GLN:NE2	2.44	0.50
8:RK:107:HIS:HA	8:RK:152:LEU:HD23	1.93	0.50
9:RL:271:ALA:HB1	9:RL:289:LEU:HD22	1.92	0.50
9:RL:323:MET:HE1	9:RL:353:VAL:HG21	1.93	0.50
9:RN:181:GLU:CD	9:RN:182:PRO:HD3	2.36	0.50
9:RN:310:TYR:HA	9:RN:371:SER:HA	1.94	0.50
9:RP:21:TRP:CE2	9:RP:61:PRO:HG3	2.47	0.50
9:RP:146:GLY:O	9:RP:149:THR:OG1	2.28	0.50
12:S1:329:LEU:HD13	12:S1:486:LEU:HG	1.93	0.50
12:S6:382:ILE:HG21	12:S6:438:LEU:HB2	1.93	0.50
12:S8:115:HIS:CB	12:S8:119:ARG:HH21	2.24	0.50
9:SB:178:THR:HB	9:SB:181:GLU:HB2	1.93	0.50
9:SB:300:MET:H	9:SB:300:MET:CE	2.24	0.50
8:TC:70:LEU:HB3	8:TC:98:ASP:HA	1.93	0.50
9:TJ:72:THR:O	9:TJ:75:SER:OG	2.27	0.50
9:TL:47:ILE:HG22	9:TL:51:TYR:HB2	1.94	0.50
9:TL:193:VAL:HA	9:TL:264:HIS:HE2	1.75	0.50
8:TM:335:ILE:HD11	8:TM:341:ILE:HG13	1.93	0.50
9:TN:202:ILE:CD1	9:TN:300:MET:HG3	2.41	0.50
30:U1:179:CYS:O	30:U1:183:GLU:HG2	2.12	0.50
30:U7:410:ASP:OD1	30:U7:410:ASP:N	2.40	0.50
8:UA:56:THR:HA	8:VA:285:GLN:HB2	1.93	0.50
9:UB:323:MET:HE1	8:UC:224:TYR:CD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UI:56:THR:HG23	8:UI:58:ALA:H	1.77	0.50
9:UJ:136:THR:HG22	9:UJ:167:PHE:HB2	1.94	0.50
8:UO:102:ASN:HB3	8:UO:105:ARG:HB2	1.92	0.50
30:V2:223:LYS:HA	30:V2:223:LYS:HE2	1.94	0.50
8:VA:70:LEU:HB3	8:VA:98:ASP:HA	1.92	0.50
8:VC:345:ASP:N	8:VC:345:ASP:OD1	2.44	0.50
8:VE:88:HIS:CE1	8:VE:90:GLU:HB3	2.47	0.50
8:VE:152:LEU:O	8:VE:156:ARG:NH1	2.45	0.50
9:VH:276:ARG:NH1	9:VH:276:ARG:O	2.45	0.50
8:VI:7:ILE:HD11	8:VI:122:ILE:CD1	2.42	0.50
9:VL:245:GLN:NE2	8:VM:223:THR:OG1	2.44	0.50
8:VM:88:HIS:HD2	8:VM:89:PRO:HD2	1.77	0.50
8:VM:172:TYR:N	8:VM:204:VAL:O	2.34	0.50
9:VN:77:ARG:HE	43:k:212:GLN:HE22	1.59	0.50
9:VN:238:THR:HG21	9:VN:318:ARG:HD2	1.93	0.50
31:W:235:LEU:HD22	31:W:378:CYS:HB3	1.92	0.50
31:W:586:LEU:HD13	31:W:599:LEU:HD12	1.93	0.50
30:W0:172:THR:O	30:W0:176:ARG:HG2	2.12	0.50
30:W2:198:ARG:HH12	30:W2:211:VAL:HB	1.77	0.50
9:WB:290:THR:OG1	9:WB:329:GLN:OE1	2.18	0.50
9:WD:344:TRP:H	9:WD:344:TRP:CD1	2.29	0.50
8:WK:138:PHE:HA	8:WK:169:PHE:O	2.11	0.50
9:WL:330:MET:HA	9:WL:333:VAL:HG12	1.92	0.50
9:WN:237:THR:HG22	9:WN:250:LEU:HD21	1.93	0.50
9:WN:289:LEU:O	9:WN:293:MET:HG3	2.11	0.50
35:XB:121:MET:N	35:XB:121:MET:SD	2.85	0.50
35:XD:26:ASP:OD1	35:XD:27:LYS:N	2.44	0.50
35:XH:35:LYS:HG2	35:XH:48:GLU:OE2	2.12	0.50
40:a1:118:THR:HG23	40:a1:120:PHE:H	1.77	0.50
41:b1:357:MET:SD	41:b1:440:HIS:HB2	2.51	0.50
41:b2:185:ARG:HB2	41:b2:190:LYS:HZ3	1.77	0.50
41:b2:340:MET:HE1	41:b2:458:TYR:HD2	1.76	0.50
41:b3:198:LEU:HB3	41:b3:332:VAL:HG22	1.94	0.50
41:b5:171:GLY:HA2	41:b5:174:ILE:HD12	1.94	0.50
42:e:13:GLU:HA	42:e:581:HIS:HA	1.94	0.50
42:e:445:GLN:N	42:e:452:LYS:O	2.44	0.50
42:f:204:MET:HE2	42:f:230:LEU:HD11	1.93	0.50
42:f:253:VAL:HG13	42:f:266:VAL:HG23	1.93	0.50
42:g:231:LYS:HB3	42:g:241:ASP:HB3	1.94	0.50
44:h4:43:PRO:HG3	44:h4:95:ARG:HH21	1.77	0.50
4:j1:63:ARG:HD3	4:j1:64:THR:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:317:PHE:HD2	2:2:328:PHE:HA	1.77	0.50
3:3:94:THR:HG22	3:3:98:ARG:HD2	1.94	0.50
4:6:120:ASP:N	4:6:120:ASP:OD1	2.44	0.50
7:A4:168:LYS:O	7:A4:172:GLU:HG3	2.12	0.50
8:AI:170:ALA:O	8:AI:203:MET:HA	2.12	0.50
8:AM:258:ASN:HD22	8:AM:352:LYS:HD3	1.77	0.50
9:AN:118:ASP:OD1	9:AN:121:ARG:NH2	2.38	0.50
8:AO:180:ALA:HB3	8:AO:183:GLU:HB3	1.94	0.50
8:AO:285:GLN:HE22	8:AO:287:SER:HB3	1.76	0.50
11:B2:212:SER:HA	11:B3:329:LEU:HD23	1.94	0.50
11:B5:125:ASP:OD1	11:B5:126:ILE:N	2.44	0.50
11:B5:389:LYS:HE3	11:B5:409:ASP:HB2	1.93	0.50
8:BE:60:LYS:NZ	8:BE:61:HIS:O	2.44	0.50
8:BE:231:ILE:O	8:BE:235:VAL:HG23	2.12	0.50
8:BG:387:ALA:HA	8:BG:390:ARG:HD3	1.93	0.50
9:BJ:299:MET:HE1	9:BJ:305:PRO:HG3	1.94	0.50
9:BL:372:THR:HA	9:BL:422:TYR:CE1	2.40	0.50
12:C3:197:GLU:HB3	12:C3:476:MET:HE1	1.93	0.50
9:CB:151:LEU:O	9:CB:155:ILE:HG12	2.11	0.50
8:CG:70:LEU:HB3	8:CG:98:ASP:HA	1.94	0.50
8:CG:79:ARG:HG3	8:CG:92:LEU:HD22	1.94	0.50
8:CI:203:MET:HE1	8:CI:267:PHE:HD1	1.76	0.50
9:CN:73:MET:HE1	9:CN:92:PHE:CD1	2.47	0.50
14:D1:425:ILE:HA	14:D1:429:LYS:HE2	1.94	0.50
14:D4:116:GLU:HG2	14:D4:265:LEU:HD11	1.94	0.50
9:DD:1:MET:HE3	9:DD:2:ARG:H	1.77	0.50
9:DF:86:ARG:HB3	9:DF:89:ASN:HB2	1.93	0.50
8:DK:435:VAL:HA	9:DL:391:ARG:HH22	1.75	0.50
9:DL:416:ASN:O	9:DL:420:SER:OG	2.24	0.50
8:DO:388:TRP:HB3	8:DO:425:LEU:HD21	1.93	0.50
8:EE:2:ARG:HB3	8:EE:242:LEU:HD23	1.94	0.50
8:FA:36:MET:HE2	8:FA:61:HIS:CD2	2.46	0.50
9:FD:54:ALA:HB3	9:FD:58:LYS:HB3	1.93	0.50
8:FG:103:TYR:O	8:FG:107:HIS:HB2	2.12	0.50
8:FI:68:VAL:HG12	8:FI:93:ILE:HB	1.92	0.50
9:FJ:238:THR:HG21	9:FJ:318:ARG:NH1	2.27	0.50
8:FK:9:VAL:HB	8:FK:139:HIS:HB3	1.93	0.50
9:FN:257:MET:SD	9:FN:312:THR:OG1	2.65	0.50
8:FO:88:HIS:HE1	8:FO:90:GLU:HB3	1.77	0.50
8:FO:154:MET:HB3	8:FO:197:HIS:HB3	1.93	0.50
9:GB:235:GLY:HA3	9:GB:366:THR:HG21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GN:1:MET:N	9:GN:128:ASP:OD1	2.44	0.50
9:GN:92:PHE:HZ	26:P2:118:VAL:HG21	1.76	0.50
8:HA:123:ARG:HG2	36:Y0:66:PRO:HG2	1.93	0.50
8:HC:154:MET:HG3	8:HC:197:HIS:HB3	1.93	0.50
8:HC:330:ALA:O	8:HC:334:THR:HG23	2.11	0.50
9:HD:388:MET:HE3	9:HD:388:MET:HA	1.94	0.50
9:HL:67:ASP:OD2	9:HL:72:THR:OG1	2.30	0.50
9:HL:372:THR:HG21	9:HL:426:GLN:HB2	1.93	0.50
8:HM:295:CYS:SG	8:HM:377:MET:HG3	2.52	0.50
9:HP:58:LYS:HE3	9:IP:280:GLN:HG3	1.93	0.50
9:IB:313:VAL:HB	9:IB:349:VAL:HG22	1.94	0.50
8:IG:2:ARG:HB3	8:IG:133:GLN:OE1	2.12	0.50
8:IG:130:THR:OG1	8:IG:131:GLY:N	2.44	0.50
8:IG:251:ASP:HB3	8:IG:254:GLU:HG3	1.92	0.50
8:II:359:PRO:HB3	8:II:373:ARG:HA	1.93	0.50
8:IK:108:TYR:HB2	8:IK:411:GLU:OE2	2.12	0.50
9:IN:144:GLY:N	52:IN:502:GDP:O1B	2.34	0.50
9:IN:324:LYS:HA	9:IN:327:ASP:HB2	1.92	0.50
9:IP:166:THR:HG23	9:IP:199:THR:HG23	1.94	0.50
9:IP:257:MET:SD	9:IP:312:THR:OG1	2.66	0.50
9:IP:295:ASP:OD1	9:IP:295:ASP:N	2.41	0.50
19:J1:222:GLN:HA	19:J1:225:LYS:HE2	1.94	0.50
8:JE:243:ARG:HE	8:JE:244:PHE:HE2	1.60	0.50
9:JH:83:GLN:O	9:KF:281:TYR:OH	2.30	0.50
8:JK:234:ILE:HD11	8:JK:272:TYR:HB2	1.93	0.50
8:JM:279:GLU:H	8:JM:279:GLU:CD	2.19	0.50
8:JM:327:ASP:N	8:JM:327:ASP:OD1	2.43	0.50
9:JP:324:LYS:HE3	8:JQ:210:TYR:CE1	2.47	0.50
8:KA:311:LYS:HD3	8:KA:344:VAL:HG12	1.94	0.50
9:KD:114:ASP:OD1	9:KD:115:SER:N	2.45	0.50
9:KD:350:LYS:HZ3	8:KE:180:ALA:HB2	1.77	0.50
9:KF:287:PRO:HG3	9:KF:329:GLN:NE2	2.26	0.50
8:KG:109:THR:HG23	8:KG:110:ILE:HG12	1.94	0.50
9:KH:226:ASN:HA	9:KH:229:VAL:HG22	1.94	0.50
8:KK:262:TYR:OH	9:KL:391:ARG:O	2.30	0.50
9:KN:337:ASN:HB3	9:KN:340:TYR:HD2	1.77	0.50
8:LI:71:GLU:HG2	8:LI:72:PRO:HD2	1.94	0.50
9:LJ:10:GLY:O	9:LJ:14:ASN:ND2	2.44	0.50
9:LJ:178:THR:HB	9:LJ:181:GLU:HB2	1.92	0.50
9:LN:423:GLN:HG2	44:h4:84:LEU:HD12	1.92	0.50
22:M2:189:ARG:NH1	22:M2:197:GLU:OE2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:M4:144:PRO:O	22:M4:146:ARG:NH1	2.44	0.50
8:MA:202:PHE:HE1	8:MA:378:LEU:HD22	1.75	0.50
9:MD:249:ASP:OD1	9:MD:251:ARG:N	2.43	0.50
9:MD:255:VAL:HA	8:ME:407:TRP:CE2	2.47	0.50
9:ML:289:LEU:HD21	9:ML:365:ALA:HB3	1.94	0.50
8:MO:124:LYS:O	8:MO:124:LYS:NZ	2.33	0.50
8:MO:326:LYS:HE3	9:MP:212:PHE:CE2	2.45	0.50
8:NC:76:ASP:OD1	8:NC:79:ARG:NH1	2.44	0.50
8:NG:139:HIS:HE1	8:NG:141:PHE:HE1	1.60	0.50
9:NH:317:PHE:HB3	9:NH:321:MET:HE1	1.92	0.50
9:NH:404:ASP:OD1	9:NH:406:MET:N	2.44	0.50
9:NJ:189:VAL:HG11	9:NJ:378:PHE:CZ	2.47	0.50
9:NJ:318:ARG:HH12	9:NJ:356:ILE:HG23	1.77	0.50
8:NM:34:GLY:CA	8:NM:60:LYS:HD3	2.42	0.50
8:NM:137:ILE:HG22	8:NM:168:GLU:HA	1.93	0.50
8:OA:317:MET:SD	8:OA:318:LEU:N	2.85	0.50
9:OB:87:PRO:HA	9:OB:90:PHE:CE1	2.47	0.50
9:OB:322:SER:HB3	8:OC:221:ARG:NE	2.26	0.50
9:OF:20:PHE:CE1	9:OF:233:MET:HB2	2.47	0.50
9:OH:237:THR:OG1	9:OH:241:ARG:NH1	2.40	0.50
8:OI:276:ILE:HG23	8:OI:280:LYS:HB3	1.93	0.50
8:OK:36:MET:HG3	8:OK:61:HIS:NE2	2.27	0.50
9:ON:198:GLU:HB3	9:ON:266:PHE:HE2	1.77	0.50
9:ON:294:PHE:HB3	36:Y5:202:MET:HB3	1.93	0.50
9:PD:200:TYR:CE1	9:PD:266:PHE:HB2	2.46	0.50
8:PE:280:LYS:HD3	8:PE:283:HIS:HE1	1.76	0.50
9:PH:69:GLU:HG2	9:PH:71:GLY:H	1.76	0.50
8:PI:386:GLU:O	8:PI:390:ARG:NH1	2.45	0.50
9:PJ:274:THR:O	9:PJ:276:ARG:NH2	2.41	0.50
9:QB:324:LYS:N	8:QC:221:ARG:HH12	2.09	0.50
8:QC:21:TRP:NE1	8:QC:63:PRO:HB3	2.25	0.50
8:QC:101:ASN:HA	8:QC:144:GLY:H	1.77	0.50
8:QC:345:ASP:N	8:QC:345:ASP:OD1	2.43	0.50
9:QH:299:MET:SD	9:QH:305:PRO:HD3	2.52	0.50
29:R:75:VAL:HG11	25:U:9:LEU:HD21	1.93	0.50
11:R0:140:GLU:O	11:R0:144:ILE:HG23	2.12	0.50
11:R1:79:ASP:OD1	11:R1:176:HIS:NE2	2.44	0.50
11:R1:283:GLU:OE2	11:R1:374:GLN:NE2	2.42	0.50
11:R2:281:TRP:O	11:R2:285:ASN:ND2	2.45	0.50
11:R2:323:TYR:CE1	14:T2:205:ARG:HD3	2.46	0.50
8:RI:30:ILE:HG13	8:RI:53:PHE:CZ	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S3:279:GLU:HG2	14:T3:41:LEU:O	2.11	0.50
9:SB:362:LYS:HD2	9:SB:363:MET:SD	2.52	0.50
9:SD:135:LEU:HD23	9:SD:152:ILE:HD11	1.94	0.50
9:SD:361:LEU:HD13	47:p:545:PHE:HB3	1.93	0.50
8:SE:204:VAL:HG23	8:SE:302:MET:HB2	1.93	0.50
9:SF:219:THR:O	9:SF:219:THR:OG1	2.29	0.50
9:SH:407:GLU:HA	9:SH:410:GLU:HG2	1.94	0.50
25:T:265:HIS:O	25:T:273:VAL:HA	2.12	0.50
14:T2:140:ARG:HB2	14:T2:444:ALA:HB2	1.93	0.50
14:T3:376:ARG:NH2	30:W0:443:LEU:HD12	2.26	0.50
8:TA:102:ASN:HB3	8:TA:105:ARG:HB2	1.94	0.50
8:TA:172:TYR:N	8:TA:204:VAL:O	2.40	0.50
8:TC:6:SER:HB3	8:TC:8:HIS:CD2	2.47	0.50
8:TG:313:MET:HG3	8:TG:344:VAL:HG11	1.93	0.50
9:TJ:409:THR:O	9:TJ:413:SER:N	2.33	0.50
9:TN:376:GLU:HG2	9:TN:380:ARG:NH1	2.27	0.50
25:U:264:ILE:HG23	25:U:275:ILE:HG12	1.93	0.50
8:UA:345:ASP:OD1	8:UA:345:ASP:N	2.44	0.50
8:UE:149:PHE:HD2	8:UE:153:LEU:HD23	1.76	0.50
8:UE:245:ASP:HA	8:UE:249:ASN:HD21	1.77	0.50
8:UG:48:SER:OG	8:UG:243:ARG:O	2.29	0.50
9:UL:130:LEU:O	9:UL:162:ARG:NH1	2.37	0.50
8:UM:27:GLU:OE2	8:UM:361:THR:OG1	2.30	0.50
8:UO:216:ASN:HD22	8:UO:275:VAL:HG23	1.76	0.50
8:VA:338:LYS:HE2	8:VA:340:THR:HB	1.93	0.50
9:VF:252:LYS:HD3	8:VG:100:ALA:HA	1.94	0.50
9:VH:330:MET:SD	9:VH:349:VAL:HB	2.52	0.50
9:VJ:46:ARG:HH22	8:VK:72:PRO:HG2	1.77	0.50
9:VJ:101:TRP:HB2	9:VJ:184:ASN:HB3	1.92	0.50
8:VK:172:TYR:HE2	8:VK:304:LYS:HE3	1.77	0.50
8:VM:152:LEU:HB2	8:VM:156:ARG:HH21	1.77	0.50
8:VM:175:PRO:HD3	8:VM:304:LYS:HE2	1.93	0.50
8:VM:311:LYS:H	8:VM:382:THR:HG22	1.77	0.50
30:W7:217:ARG:HH11	30:W7:217:ARG:HB2	1.76	0.50
8:WA:215:ARG:HA	8:WA:215:ARG:NH1	2.27	0.50
8:WI:56:THR:OG1	8:WI:57:GLY:N	2.44	0.50
9:WL:198:GLU:HA	9:WL:264:HIS:HB2	1.94	0.50
9:WN:252:LYS:NZ	50:WO:501:GTP:O3G	2.44	0.50
32:X3:202:ARG:NH1	32:X3:204:TYR:OH	2.44	0.50
34:X8:120:ALA:O	34:X8:124:ARG:HG3	2.11	0.50
35:XB:86:TYR:HA	35:XB:107:ASN:HD21	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XG:72:LYS:HG3	37:YG:62:ARG:HH21	1.77	0.50
31:Y:29:CYS:HB3	31:Y:34:MET:HE3	1.92	0.50
37:YC:134:ILE:HG22	37:YC:138:LYS:HE3	1.94	0.50
37:YC:138:LYS:HE2	37:YC:176:GLN:HB3	1.93	0.50
39:a:245:ASP:HA	39:a:248:ARG:HE	1.76	0.50
39:a:259:ARG:HH12	39:a:263:GLU:HB2	1.77	0.50
42:g:346:GLU:N	42:g:346:GLU:OE1	2.44	0.50
43:k:136:LEU:HD23	43:k:142:PHE:HB2	1.94	0.50
3:3:311:MET:HA	3:3:314:VAL:HG12	1.93	0.50
3:4:380:ALA:HA	3:4:383:ARG:HD2	1.94	0.50
4:5:118:LYS:HD3	4:5:171:PHE:HE2	1.76	0.50
4:5:354:HIS:CE1	6:A:94:LYS:HD2	2.46	0.50
1:7:73:LEU:O	8:JC:357:TYR:OH	2.29	0.50
8:AC:186:ASN:O	8:AC:190:THR:OG1	2.28	0.50
9:AD:247:ASN:OD1	8:AE:11:GLN:NE2	2.26	0.50
9:AL:324:LYS:HB2	8:AM:222:PRO:HD2	1.94	0.50
9:AN:111:GLU:OE1	9:AN:111:GLU:N	2.45	0.50
8:BI:386:GLU:N	8:BI:386:GLU:OE1	2.44	0.50
9:BP:5:VAL:HB	9:BP:133:PHE:HD1	1.77	0.50
12:C6:71:ARG:O	12:C6:74:ARG:N	2.45	0.50
9:CH:198:GLU:HA	9:CH:264:HIS:HB2	1.94	0.50
9:CJ:295:ASP:OD1	9:CJ:298:ASN:N	2.43	0.50
9:CL:311:LEU:O	9:CL:348:ASN:ND2	2.45	0.50
8:CQ:191:THR:HA	8:CQ:194:THR:HG22	1.94	0.50
14:D0:45:GLY:O	12:S5:249:SER:OG	2.23	0.50
14:D3:287:ARG:O	14:D3:291:GLU:HG2	2.11	0.50
9:DF:114:ASP:OD1	9:DF:115:SER:N	2.45	0.50
9:DH:7:LEU:N	9:DH:134:GLN:O	2.45	0.50
9:DH:156:ARG:HG3	9:DH:195:ASN:HB3	1.94	0.50
9:DH:253:LEU:O	9:DH:257:MET:N	2.45	0.50
9:DN:8:GLN:HB3	9:DN:65:LEU:HA	1.94	0.50
9:DP:330:MET:SD	9:DP:330:MET:N	2.82	0.50
8:EA:370:LYS:NZ	31:W:425:ASP:OD2	2.45	0.50
9:EH:299:MET:HE3	9:EH:300:MET:H	1.77	0.50
8:EM:47:ASP:HB2	8:EM:50:ASN:HB2	1.93	0.50
9:FB:94:GLN:N	9:FB:94:GLN:OE1	2.45	0.50
9:FF:86:ARG:HH11	9:GF:281:TYR:HB2	1.77	0.50
8:FI:203:MET:SD	8:FI:203:MET:N	2.84	0.50
8:FO:137:ILE:HG21	8:FO:154:MET:HE1	1.94	0.50
8:GC:70:LEU:HB3	8:GC:98:ASP:HA	1.93	0.50
9:GF:159:TYR:HB3	9:GF:162:ARG:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GI:175:PRO:O	8:GI:394:LYS:NZ	2.43	0.50
8:GM:119:LEU:HD11	8:GM:156:ARG:HG2	1.94	0.50
8:HA:149:PHE:CE1	8:HA:153:LEU:HD23	2.47	0.50
8:HA:279:GLU:O	8:HA:283:HIS:HB3	2.11	0.50
8:HG:132:LEU:HD23	8:HG:164:LYS:HZ3	1.76	0.50
8:HG:334:THR:O	8:HG:337:THR:OG1	2.30	0.50
8:HM:387:ALA:O	8:HM:390:ARG:HG3	2.11	0.50
9:HP:33:THR:O	9:HP:58:LYS:NZ	2.43	0.50
9:IB:4:ILE:HG21	9:IB:50:TYR:HE1	1.76	0.50
8:IC:88:HIS:HA	9:JD:281:TYR:CE1	2.47	0.50
8:IE:114:ILE:O	8:IE:118:VAL:HG23	2.12	0.50
8:IG:170:ALA:O	8:IG:203:MET:HA	2.11	0.50
8:IG:231:ILE:O	8:IG:235:VAL:HG23	2.11	0.50
8:II:36:MET:SD	8:II:38:SER:N	2.85	0.50
8:II:133:GLN:HB3	8:II:252:LEU:HD12	1.94	0.50
9:IJ:7:LEU:N	9:IJ:134:GLN:O	2.39	0.50
9:IP:38:GLY:HA2	4:j1:315:ASN:HD21	1.77	0.50
9:IP:371:SER:O	9:IP:422:TYR:OH	2.27	0.50
19:J2:27:GLN:HG3	19:J2:28:ILE:HG12	1.94	0.50
8:JC:133:GLN:HG2	8:JC:242:LEU:HD21	1.93	0.50
8:JI:85:GLN:O	8:KG:283:HIS:NE2	2.38	0.50
8:JK:132:LEU:HD23	8:JK:164:LYS:HE3	1.94	0.50
9:JN:326:VAL:O	9:JN:330:MET:HG2	2.12	0.50
13:K3:385:LYS:HD3	13:K3:386:PRO:CD	2.41	0.50
8:KA:257:THR:HG21	9:KB:98:GLY:O	2.12	0.50
9:KB:146:GLY:O	9:KB:149:THR:OG1	2.29	0.50
9:KD:376:GLU:HG2	9:KD:380:ARG:NH1	2.26	0.50
8:LG:60:LYS:NZ	8:MG:282:TYR:O	2.42	0.50
9:LH:285:THR:OG1	9:LH:288:GLU:HG3	2.12	0.50
9:LJ:406:MET:N	9:LJ:406:MET:SD	2.85	0.50
9:LN:323:MET:HA	9:LN:326:VAL:HG12	1.93	0.50
9:LP:8:GLN:HB2	9:LP:65:LEU:HA	1.93	0.50
9:LP:114:ASP:N	9:LP:114:ASP:OD1	2.41	0.50
9:LP:170:VAL:HG21	9:LP:377:LEU:HD11	1.93	0.50
8:MA:186:ASN:O	8:MA:190:THR:OG1	2.21	0.50
8:MA:201:ALA:O	8:MA:268:PRO:HD2	2.11	0.50
8:MG:183:GLU:HA	8:MG:186:ASN:HD22	1.77	0.50
6:N1:21:LYS:HG3	6:N1:25:ARG:HH12	1.77	0.50
9:NF:52:ASN:HB3	9:NF:60:VAL:HG23	1.93	0.50
8:NI:14:VAL:HG12	8:NI:67:PHE:CD1	2.47	0.50
8:NI:65:ALA:HB3	8:NI:87:PHE:HZ	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NI:201:ALA:HB3	8:NI:267:PHE:HD1	1.77	0.50
9:NJ:128:ASP:OD1	36:Y4:47:ARG:HB3	2.12	0.50
8:NM:213:CYS:SG	8:NM:222:PRO:HG2	2.52	0.50
9:NP:69:GLU:HG2	9:NP:71:GLY:H	1.76	0.50
9:NP:330:MET:HE2	9:NP:351:THR:HG21	1.94	0.50
17:O8:180:HIS:HB2	30:W4:38:GLN:HE22	1.76	0.50
17:O9:53:CYS:HB3	27:P4:158:CYS:HB2	1.94	0.50
8:OA:318:LEU:HB2	8:OA:376:CYS:HB3	1.94	0.50
9:OD:267:MET:HE1	9:OD:373:ALA:HB3	1.94	0.50
8:OE:209:ILE:CG2	8:OE:227:LEU:HG	2.41	0.50
8:OE:255:PHE:O	8:OE:259:LEU:HG	2.12	0.50
8:OG:245:ASP:HA	8:OG:249:ASN:HD21	1.77	0.50
8:OI:97:GLU:HG3	8:OI:105:ARG:HH22	1.76	0.50
9:OJ:287:PRO:HB3	36:Y4:51:TYR:CE2	2.47	0.50
8:OM:241:SER:OG	8:OM:250:VAL:O	2.25	0.50
9:ON:290:THR:O	9:ON:293:MET:HB2	2.12	0.50
9:ON:323:MET:SD	9:ON:324:LYS:N	2.85	0.50
8:OO:327:ASP:OD1	8:OO:327:ASP:N	2.42	0.50
8:PG:264:ARG:HH12	8:PG:428:LEU:HA	1.77	0.50
8:PI:25:CYS:O	8:PI:30:ILE:N	2.43	0.50
9:PL:237:THR:HG22	9:PL:250:LEU:HD21	1.92	0.50
9:PN:156:ARG:HG3	9:PN:195:ASN:HB3	1.93	0.50
9:PP:344:TRP:H	9:PP:344:TRP:CD1	2.29	0.50
28:Q3:46:ALA:HA	28:Q3:67:LEU:HD21	1.94	0.50
9:QB:344:TRP:H	9:QB:344:TRP:CD1	2.29	0.50
9:QD:8:GLN:HG2	9:QD:14:ASN:HA	1.92	0.50
9:QJ:132:GLY:HA2	9:QJ:162:ARG:HB3	1.94	0.50
9:QP:183:TYR:HA	9:QP:385:PHE:CE2	2.47	0.50
9:RJ:237:THR:HG22	9:RJ:250:LEU:HD21	1.94	0.50
12:S2:87:ARG:NH2	12:S6:253:GLU:OE1	2.44	0.50
12:S7:406:ARG:HH21	12:S7:412:CYS:N	2.10	0.50
12:S9:213:ASP:O	12:S9:216:GLU:HG2	2.12	0.50
9:SB:300:MET:HE3	9:SB:300:MET:N	2.26	0.50
8:SE:151:SER:HB3	8:SE:193:THR:HG21	1.94	0.50
8:SI:171:ILE:HD13	8:SI:204:VAL:HG13	1.93	0.50
9:SL:130:LEU:O	9:SL:162:ARG:NH1	2.45	0.50
9:SL:311:LEU:N	9:SL:370:ASN:O	2.43	0.50
9:SN:150:LEU:HD11	9:SN:154:LYS:HE2	1.94	0.50
9:SN:263:LEU:HD21	9:SN:370:ASN:HD21	1.77	0.50
25:T:282:ASN:OD1	25:T:283:ASN:N	2.44	0.50
14:T2:201:ILE:HG23	14:T2:205:ARG:HE	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T4:427:ARG:HH12	30:U1:132:HIS:CE1	2.30	0.50
8:TA:229:ARG:NH1	8:TA:367:ASP:OD2	2.45	0.50
9:TF:118:ASP:OD2	9:TF:118:ASP:N	2.44	0.50
9:TF:362:LYS:HG2	9:TF:363:MET:SD	2.52	0.50
9:TJ:363:MET:HE2	9:TJ:363:MET:HA	1.93	0.50
30:U0:410:ASP:HB3	30:U1:145:ARG:NH2	2.27	0.50
30:U5:339:THR:HB	30:U5:473:ARG:NH2	2.27	0.50
9:UB:323:MET:HE1	8:UC:224:TYR:CG	2.47	0.50
8:UE:228:ASN:HA	8:UE:231:ILE:HD12	1.94	0.50
9:UF:270:PHE:CE1	9:UF:272:PRO:HD2	2.46	0.50
8:UI:139:HIS:O	8:UI:170:ALA:HA	2.12	0.50
8:UK:73:THR:O	8:UK:77:GLU:HG2	2.11	0.50
9:UN:152:ILE:HA	9:UN:155:ILE:HG12	1.94	0.50
30:V0:418:ASN:O	30:V0:422:THR:HG23	2.12	0.50
30:V1:353:VAL:HA	30:V1:356:LYS:HD3	1.94	0.50
30:V4:218:GLU:O	30:V4:222:LEU:HG	2.11	0.50
30:V7:376:MET:HG3	30:W0:401:ARG:HH22	1.77	0.50
8:VG:9:VAL:HG22	8:VG:68:VAL:HB	1.94	0.50
8:VO:147:SER:OG	8:VO:190:THR:OG1	2.24	0.50
31:W:635:PHE:HD1	31:W:638:PHE:CD1	2.29	0.50
9:WB:388:MET:HG2	9:WB:393:ALA:HB3	1.93	0.50
8:WC:25:CYS:HB2	8:WC:30:ILE:HB	1.94	0.50
9:WF:165:ASN:HB2	9:WF:200:TYR:HE2	1.76	0.50
9:WH:344:TRP:H	9:WH:344:TRP:CD1	2.28	0.50
9:WP:8:GLN:HE21	9:WP:14:ASN:HA	1.77	0.50
34:X6:25:LYS:HB3	34:X6:27:LYS:HG3	1.93	0.50
34:X6:127:HIS:O	34:X6:191:LYS:NZ	2.44	0.50
35:XA:75:PHE:HB3	35:XA:133:GLN:HE22	1.76	0.50
35:XG:22:LEU:HD22	35:XG:47:LEU:HD11	1.93	0.50
31:Y:538:ASP:N	31:Y:538:ASP:OD1	2.44	0.50
36:Y1:33:PRO:HG2	36:Y1:42:THR:HG22	1.94	0.50
36:Y2:78:LYS:O	36:Y2:78:LYS:NZ	2.32	0.50
37:YE:84:ILE:HD12	37:YE:84:ILE:H	1.77	0.50
39:a6:136:GLU:O	39:a6:140:GLU:HG2	2.11	0.50
41:b2:113:MET:HE2	44:h1:127:TYR:CD2	2.46	0.50
41:b3:142:ARG:NH1	41:b3:253:ASP:OD1	2.45	0.50
39:d:420:LEU:O	39:d:424:ARG:HG2	2.12	0.50
44:h3:118:MET:HG3	44:h3:119:PRO:O	2.12	0.50
46:i2:1337:GLN:HA	46:i2:1340:TRP:HE3	1.77	0.50
47:p:420:ARG:HD2	47:p:421:GLU:N	2.26	0.50
3:3:391:ASN:O	3:3:395:ASN:ND2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:6:144:MET:SD	4:6:290:ILE:HG22	2.52	0.49
6:A:49:LEU:HD13	8:JE:42:ILE:HD12	1.93	0.49
9:AB:334:GLN:HE22	9:AB:347:ASN:HA	1.76	0.49
8:AE:149:PHE:O	8:AE:153:LEU:HB2	2.12	0.49
8:AG:33:ASP:O	8:AG:60:LYS:NZ	2.38	0.49
11:B4:29:GLU:HA	11:B4:32:ARG:HD2	1.93	0.49
11:B4:108:LEU:HD11	28:Q4:62:VAL:HG23	1.93	0.49
11:B5:383:THR:HA	11:B5:386:LEU:HG	1.93	0.49
9:BF:163:ILE:HD11	9:BF:251:ARG:NE	2.27	0.49
8:BG:225:THR:O	8:BG:229:ARG:HG3	2.12	0.49
8:BG:261:PRO:HA	9:BH:394:PHE:CD1	2.47	0.49
8:BG:287:SER:O	8:BG:291:ILE:HG12	2.12	0.49
8:BI:88:HIS:NE2	8:CI:284:GLU:OE1	2.45	0.49
8:BK:6:SER:O	8:BK:65:ALA:HA	2.12	0.49
9:BP:313:VAL:HG12	9:BP:349:VAL:HG13	1.93	0.49
10:C:320:ARG:NH1	9:HL:40:SER:HB3	2.27	0.49
9:CB:146:GLY:O	9:CB:149:THR:OG1	2.29	0.49
8:CK:68:VAL:HG11	8:CK:149:PHE:CZ	2.47	0.49
9:CL:52:ASN:HB3	9:CL:60:VAL:HG23	1.94	0.49
9:CL:203:ASP:OD2	9:CL:206:ALA:N	2.42	0.49
13:D:388:ASP:HA	29:R:165:GLN:HE22	1.77	0.49
8:DG:326:LYS:NZ	9:DH:208:TYR:HB3	2.27	0.49
8:DM:120:ASP:OD2	8:DM:121:ARG:NH1	2.45	0.49
9:DN:238:THR:HA	9:DN:241:ARG:HH21	1.76	0.49
9:EB:156:ARG:HD3	9:EB:164:MET:HE2	1.93	0.49
9:EJ:66:VAL:HG11	9:EJ:147:MET:HE2	1.94	0.49
9:EJ:344:TRP:H	9:EJ:344:TRP:CD1	2.29	0.49
8:EM:324:VAL:HG12	8:EM:326:LYS:H	1.76	0.49
15:F:40:ILE:HD12	15:F:44:ARG:HH21	1.76	0.49
8:FA:318:LEU:HB2	8:FA:376:CYS:HB3	1.93	0.49
9:FB:125:GLU:OE2	9:FB:159:TYR:OH	2.23	0.49
8:FC:52:PHE:HE2	8:FC:243:ARG:HD3	1.77	0.49
8:FC:195:LEU:HD21	8:FC:428:LEU:HD21	1.93	0.49
9:FD:245:GLN:O	8:FE:11:GLN:NE2	2.45	0.49
9:FH:313:VAL:HG13	9:FH:367:PHE:HE1	1.77	0.49
8:FK:2:ARG:HB3	8:FK:242:LEU:HD23	1.93	0.49
8:FM:422:ARG:HH12	8:FM:426:ALA:HB2	1.78	0.49
9:GB:128:ASP:N	9:GB:128:ASP:OD1	2.42	0.49
8:GE:276:ILE:HD11	8:GE:286:LEU:HD11	1.94	0.49
8:GG:215:ARG:NH2	8:GG:299:ALA:O	2.45	0.49
8:GG:312:TYR:CE2	8:GG:341:ILE:HD12	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GK:139:HIS:NE2	8:GK:168:GLU:OE2	2.38	0.49
8:GK:288:VAL:HG13	8:GK:319:TYR:CE2	2.47	0.49
8:GK:361:THR:OG1	8:GK:362:VAL:N	2.45	0.49
9:GN:238:THR:HG21	9:GN:318:ARG:HD2	1.94	0.49
9:GN:245:GLN:O	8:GO:11:GLN:NE2	2.45	0.49
8:HC:213:CYS:HB2	8:HC:219:ILE:HD11	1.93	0.49
8:HC:262:TYR:OH	9:HD:391:ARG:O	2.28	0.49
9:HD:347:ASN:ND2	8:HE:176:GLN:O	2.43	0.49
9:HF:321:MET:SD	9:HF:363:MET:HE1	2.52	0.49
8:HI:195:LEU:HD13	8:HI:428:LEU:HD11	1.93	0.49
8:IE:89:PRO:HG3	15:N2:20:TYR:CE2	2.47	0.49
9:IL:65:LEU:HD13	9:IL:90:PHE:CD1	2.47	0.49
9:IP:8:GLN:NE2	9:IP:14:ASN:HA	2.26	0.49
9:IP:358:PRO:HG2	9:IP:361:LEU:HB3	1.94	0.49
19:J2:96:VAL:HG13	19:J2:97:PRO:HD3	1.93	0.49
19:J5:115:GLU:OE1	19:J5:148:ARG:NH2	2.42	0.49
9:JB:311:LEU:HG	9:JB:312:THR:HG23	1.92	0.49
8:JG:358:GLN:NE2	8:JG:359:PRO:O	2.35	0.49
9:JH:128:ASP:OD1	9:JH:129:CYS:N	2.43	0.49
8:JI:324:VAL:HG12	8:JI:326:LYS:H	1.77	0.49
9:JL:16:ILE:HD12	9:JL:16:ILE:H	1.77	0.49
8:JM:417:GLU:HA	8:JM:420:GLU:HB3	1.94	0.49
9:JN:163:ILE:HG13	9:JN:251:ARG:CD	2.42	0.49
8:JO:391:LEU:HD12	8:JO:394:LYS:HD2	1.93	0.49
13:K3:387:HIS:ND1	29:S:161:GLU:OE2	2.45	0.49
8:KA:166:LYS:N	8:KA:199:ASP:OD2	2.40	0.49
9:KB:293:MET:HE2	9:KB:293:MET:HA	1.94	0.49
8:KC:155:GLU:O	8:KC:158:SER:OG	2.30	0.49
9:KD:257:MET:SD	9:KD:312:THR:OG1	2.62	0.49
8:KE:75:VAL:O	8:KE:79:ARG:HG3	2.12	0.49
8:KE:338:LYS:NZ	8:KE:340:THR:HG23	2.26	0.49
8:KE:412:GLY:C	41:b2:362:HIS:CE1	2.90	0.49
9:KH:204:ASN:ND2	52:KH:502:GDP:N3	2.56	0.49
9:LB:323:MET:HA	9:LB:326:VAL:HG12	1.94	0.49
9:LD:381:ILE:HB	9:LD:415:MET:HE1	1.94	0.49
9:LH:383:GLU:HG3	9:LH:384:GLN:N	2.25	0.49
8:LI:437:VAL:O	9:LJ:391:ARG:NH2	2.43	0.49
9:LJ:377:LEU:O	9:LJ:381:ILE:HG12	2.11	0.49
9:MB:279:GLN:HG3	9:MB:282:ARG:HH21	1.76	0.49
8:MI:108:TYR:HB2	8:MI:411:GLU:OE1	2.12	0.49
9:ML:313:VAL:HB	9:ML:349:VAL:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MO:1:MET:HG2	31:Z:24:GLN:NE2	2.27	0.49
17:N:299:THR:O	17:N:303:SER:HB2	2.12	0.49
8:NA:2:ARG:HD3	8:NA:2:ARG:H	1.77	0.49
9:NB:3:GLU:HG3	9:NB:127:CYS:HB3	1.94	0.49
9:NB:245:GLN:HB3	8:NC:224:TYR:HD2	1.77	0.49
8:NC:219:ILE:HG13	8:NC:222:PRO:HG3	1.94	0.49
9:ND:345:ILE:HG23	8:NE:398:MET:HE1	1.94	0.49
9:NF:40:SER:N	9:NF:43:GLN:OE1	2.44	0.49
9:NL:70:PRO:HD3	9:NL:93:GLY:O	2.11	0.49
9:NL:284:LEU:HD13	9:NL:363:MET:HB2	1.94	0.49
8:NM:142:GLY:O	8:NM:186:ASN:ND2	2.44	0.49
8:NO:4:CYS:HB2	8:NO:52:PHE:HE2	1.77	0.49
24:O4:47:ILE:HA	24:O4:100:ARG:HB2	1.92	0.49
25:O5:111:MET:SD	25:O5:111:MET:N	2.64	0.49
9:OB:270:PHE:CE1	9:OB:272:PRO:HD2	2.47	0.49
9:OL:376:GLU:HA	9:OL:379:LYS:HZ3	1.76	0.49
9:OP:167:PHE:HD2	9:OP:202:ILE:HD11	1.77	0.49
9:OP:238:THR:OG1	9:OP:318:ARG:NH1	2.45	0.49
9:PB:31:ASP:HB3	9:PB:37:HIS:CD2	2.47	0.49
9:PB:326:VAL:HA	9:PB:329:GLN:HG2	1.93	0.49
9:PH:5:VAL:HB	9:PH:133:PHE:HD1	1.77	0.49
9:PJ:290:THR:HG21	9:PJ:329:GLN:HB3	1.93	0.49
9:PJ:344:TRP:H	9:PJ:344:TRP:CD1	2.30	0.49
8:PK:139:HIS:O	8:PK:170:ALA:HA	2.12	0.49
9:PL:228:LEU:HD23	9:PL:300:MET:HE2	1.93	0.49
9:PN:344:TRP:H	9:PN:344:TRP:CD1	2.30	0.49
8:QC:36:MET:HE3	8:QC:37:PRO:HD2	1.92	0.49
8:QC:339:ARG:HH21	8:QC:342:GLN:HG2	1.76	0.49
9:QD:198:GLU:HB2	9:QD:266:PHE:CE2	2.46	0.49
9:QF:203:ASP:HB3	9:QF:301:ALA:HA	1.94	0.49
9:QJ:273:LEU:O	9:QJ:292:GLN:NE2	2.44	0.49
8:QM:319:TYR:HB2	8:QM:355:ILE:HD13	1.94	0.49
11:R1:202:LYS:HD3	14:T4:212:GLU:OE2	2.12	0.49
11:R2:177:ARG:HH22	14:T3:139:GLN:HE21	1.60	0.49
11:R2:315:HIS:CD2	11:R3:202:LYS:H	2.30	0.49
11:R3:380:LYS:HE3	11:R4:17:TRP:HE1	1.77	0.49
8:RG:6:SER:O	8:RG:66:VAL:N	2.43	0.49
9:RJ:136:THR:HG22	9:RJ:167:PHE:HB2	1.94	0.49
9:RL:5:VAL:HG22	9:RL:62:ARG:HD2	1.94	0.49
12:S5:141:HIS:HE1	12:S6:419:ARG:CZ	2.23	0.49
12:S9:206:MET:H	12:S9:206:MET:HE3	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SB:150:LEU:HG	9:SB:154:LYS:HE2	1.94	0.49
9:SD:80:PRO:HG2	47:p:533:TYR:HB3	1.94	0.49
8:SE:271:THR:HB	8:SE:377:MET:HB3	1.94	0.49
9:SF:404:ASP:OD1	9:SF:404:ASP:N	2.31	0.49
9:SH:309:ARG:HG3	9:SH:426:GLN:HG3	1.94	0.49
8:SK:88:HIS:HA	8:TK:283:HIS:HE1	1.77	0.49
9:SN:8:GLN:HB3	9:SN:65:LEU:HA	1.94	0.49
14:T2:205:ARG:O	14:T2:209:GLU:HG2	2.12	0.49
14:T3:164:HIS:CG	14:T3:165:PRO:HA	2.47	0.49
14:T5:390:ALA:O	14:T5:394:LYS:HG2	2.12	0.49
8:TC:171:ILE:HD11	50:TC:501:GTP:HN22	1.76	0.49
8:TE:271:THR:HA	8:TE:302:MET:HE1	1.94	0.49
9:TF:8:GLN:HE21	9:TF:14:ASN:HA	1.76	0.49
9:TL:215:LEU:HB3	9:TL:217:LEU:CD2	2.42	0.49
8:TM:286:LEU:HB2	8:TM:372:GLN:HE22	1.77	0.49
30:U0:173:LEU:HD22	30:U0:318:ARG:HG2	1.92	0.49
30:U0:200:LYS:HZ2	30:U5:252:ARG:HD2	1.77	0.49
30:U2:391:MET:HE2	30:U3:277:ILE:HG12	1.94	0.49
30:U5:313:ASN:OD1	30:U5:316:ARG:NH2	2.45	0.49
30:U7:121:LEU:HA	30:U7:124:MET:HE2	1.92	0.49
9:UF:169:VAL:HA	9:UF:202:ILE:HG22	1.94	0.49
9:UH:170:VAL:HG11	9:UH:377:LEU:HD21	1.94	0.49
8:UK:276:ILE:HD11	8:UK:286:LEU:HD11	1.93	0.49
8:UK:315:CYS:HB3	8:UK:377:MET:HE1	1.93	0.49
9:UL:316:VAL:HG22	9:UL:352:ALA:HB3	1.94	0.49
8:UO:240:ALA:HA	8:UO:243:ARG:HD3	1.94	0.49
25:V:128:ASP:OD2	25:V:130:SER:OG	2.23	0.49
30:V2:349:GLU:HA	30:V2:352:ASP:HB3	1.93	0.49
30:V2:385:LYS:HE3	30:V3:131:ILE:HD12	1.94	0.49
30:V6:107:GLU:HB3	30:V6:110:ARG:HH21	1.77	0.49
30:V7:225:CYS:O	30:V7:229:MET:HG3	2.12	0.49
8:VA:430:LYS:O	8:VA:434:GLU:HG2	2.12	0.49
8:VG:23:LEU:HD12	8:VG:26:LEU:HD11	1.94	0.49
9:VH:54:ALA:HB3	9:VH:58:LYS:HB3	1.93	0.49
9:VH:345:ILE:HA	8:VI:398:MET:HE1	1.92	0.49
8:VI:274:PRO:HG3	8:VI:286:LEU:HD11	1.94	0.49
9:VJ:372:THR:HA	9:VJ:422:TYR:CE1	2.46	0.49
8:VK:70:LEU:HB3	8:VK:98:ASP:HA	1.94	0.49
31:W:393:TYR:OH	31:W:397:GLY:O	2.27	0.49
31:W:416:LYS:HD3	31:W:417:ASN:N	2.27	0.49
8:WA:1:MET:SD	8:WA:2:ARG:N	2.84	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WG:339:ARG:NE	8:WG:339:ARG:O	2.45	0.49
8:WI:167:LEU:HD23	8:WI:202:PHE:HE2	1.76	0.49
9:WJ:237:THR:HG22	9:WJ:250:LEU:HD21	1.94	0.49
8:WK:151:SER:HA	8:WK:193:THR:HG21	1.94	0.49
9:WL:330:MET:HB3	9:WL:349:VAL:HG11	1.94	0.49
9:WN:31:ASP:OD1	9:WN:35:THR:N	2.44	0.49
9:WN:54:ALA:HB3	9:WN:58:LYS:HB2	1.93	0.49
9:WP:326:VAL:O	9:WP:330:MET:HG2	2.11	0.49
34:X6:82:CYS:SG	34:X6:83:ASN:N	2.85	0.49
34:X7:124:ARG:CZ	34:X7:262:ALA:HB1	2.42	0.49
34:X7:223:ARG:HA	34:X7:226:ARG:HE	1.77	0.49
35:XB:141:ARG:HD3	35:XB:145:GLY:HA2	1.93	0.49
35:XG:87:PHE:H	35:XG:107:ASN:HD21	1.60	0.49
31:Y:512:THR:OG1	31:Y:520:PHE:O	2.24	0.49
36:Y0:69:ARG:HG2	36:Y0:69:ARG:HH11	1.77	0.49
36:Y1:143:MET:N	36:Y1:143:MET:HE3	2.27	0.49
37:YC:29:LYS:O	37:YC:32:MET:HG2	2.12	0.49
41:b3:427:LEU:O	41:b3:430:GLU:HG3	2.12	0.49
41:b4:367:PHE:O	41:b4:371:MET:HG2	2.11	0.49
41:b4:414:ARG:NH2	44:h4:112:GLU:OE2	2.45	0.49
39:d:469:LYS:O	39:d:473:GLN:HG2	2.12	0.49
42:f:346:GLU:OE1	42:f:346:GLU:N	2.45	0.49
42:f:544:LEU:HD23	42:f:544:LEU:C	2.37	0.49
44:h2:46:SER:O	44:h2:48:LYS:N	2.45	0.49
46:i2:1345:ARG:HE	46:i2:1349:GLU:HG3	1.77	0.49
47:o:148:ARG:NH1	47:p:493:GLU:OE1	2.45	0.49
3:3:36:HIS:O	3:3:40:ILE:HG13	2.12	0.49
4:6:31:GLU:HB2	4:6:40:LEU:HD11	1.95	0.49
7:A4:138:LYS:O	7:A4:142:ILE:HG12	2.12	0.49
9:AD:293:MET:SD	9:AD:367:PHE:HB2	2.52	0.49
9:AF:211:CYS:HA	9:AF:215:LEU:HB2	1.93	0.49
9:AL:41:ASP:OD1	9:AL:42:LEU:N	2.45	0.49
9:AN:66:VAL:HA	9:AN:91:VAL:O	2.13	0.49
11:B1:53:ILE:HD11	11:B2:307:LYS:HE3	1.94	0.49
11:B3:39:ARG:NH1	11:B4:292:GLU:OE2	2.44	0.49
11:B4:39:ARG:HH22	11:B5:292:GLU:HG2	1.77	0.49
9:BB:359:ARG:HH11	17:H:268:THR:HG23	1.77	0.49
9:BF:284:LEU:O	17:J:230:TRP:NE1	2.45	0.49
8:BK:260:VAL:HB	9:BL:397:TRP:HH2	1.76	0.49
12:C2:199:LEU:HD11	12:C2:219:LEU:HB3	1.94	0.49
8:CE:132:LEU:HD21	8:CE:135:PHE:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:339:ARG:NH2	8:CI:342:GLN:HG2	2.27	0.49
9:CL:165:ASN:HD21	9:CL:250:LEU:HD21	1.77	0.49
8:CM:264:ARG:NH1	8:CM:431:ASP:OD2	2.45	0.49
9:CN:10:GLY:O	9:CN:14:ASN:ND2	2.44	0.49
13:D:392:GLU:OE2	29:R:158:GLN:NE2	2.45	0.49
14:D1:67:ALA:HB1	14:D1:71:ARG:HH12	1.76	0.49
14:D3:149:TYR:HB2	14:D3:183:ILE:HG21	1.94	0.49
9:DB:249:ASP:H	9:DB:252:LYS:HB2	1.78	0.49
9:DB:337:ASN:HB3	9:DB:340:TYR:HD2	1.77	0.49
9:DL:24:ILE:HD12	9:DL:241:ARG:HH12	1.77	0.49
8:DO:188:ILE:O	8:DO:191:THR:OG1	2.30	0.49
9:EB:215:LEU:HD21	9:EB:273:LEU:HB3	1.95	0.49
8:EE:286:LEU:O	8:EE:373:ARG:NH1	2.45	0.49
9:EF:134:GLN:HE22	9:EF:165:ASN:HB2	1.76	0.49
8:EO:188:ILE:O	8:EO:191:THR:OG1	2.28	0.49
8:EO:377:MET:HE3	8:EO:378:LEU:N	2.27	0.49
8:FE:91:GLN:HA	8:FE:121:ARG:HD3	1.93	0.49
8:FE:329:ASN:HB3	9:FF:175:VAL:HG11	1.95	0.49
9:FF:73:MET:HB2	9:FF:77:ARG:HH21	1.77	0.49
8:FI:88:HIS:HD1	8:FI:90:GLU:H	1.60	0.49
9:FJ:222:TYR:HE2	52:FJ:502:GDP:C4	2.30	0.49
8:FM:254:GLU:HG2	9:FN:98:GLY:HA2	1.94	0.49
9:GB:327:ASP:HA	9:GB:330:MET:HG3	1.94	0.49
9:GF:278:SER:HB3	9:GF:282:ARG:HH22	1.76	0.49
8:GG:102:ASN:ND2	8:GG:105:ARG:HG3	2.27	0.49
8:GG:107:HIS:HA	8:GG:152:LEU:HD23	1.94	0.49
8:GG:126:ALA:HA	8:GG:132:LEU:HD21	1.94	0.49
9:GH:346:PRO:HD3	8:GI:397:LEU:HD11	1.95	0.49
8:GI:25:CYS:HA	8:GI:30:ILE:HG12	1.94	0.49
8:GK:107:HIS:HA	8:GK:152:LEU:HD23	1.93	0.49
8:GO:111:GLY:O	8:GO:115:VAL:HG23	2.12	0.49
9:HD:44:LEU:HA	9:HD:47:ILE:HD11	1.94	0.49
9:HD:251:ARG:HE	8:HE:105:ARG:HH22	1.59	0.49
9:HH:133:PHE:HB2	9:HH:164:MET:SD	2.52	0.49
8:HI:69:ASP:O	8:HI:94:THR:HA	2.13	0.49
8:HM:287:SER:O	8:HM:291:ILE:HG12	2.12	0.49
8:HO:205:ASP:OD1	8:HO:205:ASP:N	2.45	0.49
8:IA:172:TYR:HB2	8:IA:203:MET:HG3	1.94	0.49
8:IA:317:MET:O	8:IA:354:GLY:N	2.45	0.49
8:IA:345:ASP:OD1	8:IA:345:ASP:N	2.40	0.49
9:IB:28:HIS:HA	9:IB:43:GLN:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IC:11:GLN:HA	8:IC:74:VAL:HG11	1.94	0.49
8:IE:91:GLN:O	8:IE:93:ILE:HG13	2.12	0.49
9:IF:256:ASN:HB2	8:IG:181:VAL:HG22	1.94	0.49
8:IG:135:PHE:CE1	8:IG:157:LEU:HD21	2.47	0.49
9:IN:324:LYS:HB2	8:IO:210:TYR:CE2	2.47	0.49
8:IO:437:VAL:O	9:IP:391:ARG:NH2	2.45	0.49
19:J2:124:ASN:OD1	9:KD:425:TYR:OH	2.26	0.49
19:J3:192:VAL:HG12	19:J3:196:LYS:HE3	1.95	0.49
9:JD:285:THR:OG1	9:JD:286:VAL:N	2.45	0.49
8:JE:268:PRO:HA	8:JE:380:ASN:HA	1.93	0.49
9:JH:381:ILE:O	9:JH:385:PHE:N	2.37	0.49
9:JH:423:GLN:NE2	9:JH:426:GLN:OE1	2.37	0.49
8:JI:70:LEU:HD23	8:JI:145:THR:HB	1.93	0.49
9:JL:27:GLU:OE2	9:JL:242:PHE:HZ	1.95	0.49
8:JQ:132:LEU:HD23	8:JQ:164:LYS:HD2	1.93	0.49
9:KD:210:ILE:HD11	9:KD:297:LYS:O	2.12	0.49
8:KE:105:ARG:HG3	8:KE:411:GLU:HG3	1.94	0.49
8:KK:298:PRO:HG3	8:KK:308:ARG:HE	1.78	0.49
8:KM:317:MET:CE	8:KM:377:MET:HE3	2.42	0.49
9:KN:344:TRP:CD1	9:KN:345:ILE:HG13	2.47	0.49
9:KP:221:THR:HG23	9:KP:224:ASP:H	1.77	0.49
8:LC:297:GLU:O	8:LC:301:GLN:NE2	2.32	0.49
8:LE:286:LEU:O	8:LE:373:ARG:NH1	2.45	0.49
9:LJ:417:ASP:OD2	43:j:101:SER:OG	2.29	0.49
8:LK:410:GLY:O	43:j:119:LYS:HG2	2.12	0.49
9:MD:122:LYS:O	9:MD:126:SER:OG	2.29	0.49
9:MF:184:ASN:OD1	9:MF:398:TYR:OH	2.29	0.49
8:MI:288:VAL:O	8:MI:292:THR:HG22	2.12	0.49
9:MJ:276:ARG:NH1	23:P:140:GLN:O	2.41	0.49
9:MN:113:VAL:HG11	9:MN:150:LEU:HD23	1.93	0.49
9:MN:367:PHE:O	9:MN:368:ILE:HD13	2.12	0.49
8:MO:264:ARG:NH1	8:MO:431:ASP:OD2	2.45	0.49
8:MO:389:ALA:O	43:k:149:LYS:NZ	2.45	0.49
6:N1:67:LEU:HD12	4:j1:305:GLU:HB3	1.94	0.49
8:NA:239:THR:HA	8:NA:242:LEU:HG	1.94	0.49
8:NE:251:ASP:H	8:NE:254:GLU:CG	2.25	0.49
8:NI:256:GLN:O	9:NJ:397:TRP:CH2	2.65	0.49
8:NK:323:VAL:HG22	8:NK:373:ARG:HG3	1.94	0.49
8:NM:3:GLU:H	8:NM:133:GLN:HG2	1.77	0.49
9:NN:5:VAL:O	9:NN:134:GLN:N	2.44	0.49
9:NN:259:PRO:HG2	9:NN:263:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NO:31:GLN:HG2	8:NO:35:GLN:H	1.77	0.49
25:O5:526:GLU:H	25:O5:526:GLU:CD	2.18	0.49
17:O9:49:GLN:HE22	27:P4:167:PRO:HG3	1.77	0.49
8:OG:337:THR:HA	8:OG:339:ARG:HH22	1.78	0.49
9:OJ:172:SER:OG	9:OJ:205:GLU:OE1	2.22	0.49
9:OL:253:LEU:O	9:OL:256:ASN:N	2.44	0.49
8:OM:132:LEU:O	8:OM:164:LYS:NZ	2.36	0.49
27:P5:22:MET:O	27:P5:26:LYS:NZ	2.32	0.49
8:PC:102:ASN:HB3	8:PC:105:ARG:HB2	1.94	0.49
9:PF:86:ARG:NH2	9:QF:278:SER:HA	2.27	0.49
8:PG:68:VAL:HG23	8:PG:93:ILE:HD11	1.94	0.49
9:PJ:217:LEU:CB	9:PJ:220:PRO:HD3	2.42	0.49
8:PK:155:GLU:OE2	8:PK:193:THR:HG23	2.12	0.49
9:PL:8:GLN:HE21	9:PL:14:ASN:HA	1.77	0.49
9:PP:83:GLN:O	9:QP:281:TYR:OH	2.29	0.49
28:Q3:151:VAL:HG21	12:S7:120:LEU:HD12	1.94	0.49
28:Q4:49:TRP:CD1	28:Q4:62:VAL:HG12	2.47	0.49
8:QC:326:LYS:HE3	9:QD:220:PRO:HD2	1.94	0.49
8:QE:185:TYR:CD2	8:QE:404:PHE:HD2	2.29	0.49
8:QG:203:MET:N	8:QG:203:MET:SD	2.85	0.49
9:QJ:208:TYR:CZ	9:QJ:225:LEU:HD11	2.47	0.49
8:QM:51:THR:HG21	8:QM:243:ARG:HG2	1.93	0.49
8:QM:286:LEU:O	8:QM:373:ARG:NH1	2.45	0.49
9:QP:189:VAL:HA	9:QP:192:LEU:HD23	1.93	0.49
11:R0:130:ARG:HA	11:R1:11:ARG:HH22	1.78	0.49
11:R0:339:ILE:HD13	11:R1:206:THR:HB	1.93	0.49
11:R1:15:SER:O	11:R1:19:THR:HG23	2.12	0.49
9:RD:86:ARG:NH2	9:SB:281:TYR:O	2.44	0.49
9:RL:198:GLU:HA	9:RL:264:HIS:HB2	1.94	0.49
9:RN:198:GLU:HA	9:RN:264:HIS:HB2	1.94	0.49
12:S1:147:GLY:O	12:S1:151:ASN:ND2	2.45	0.49
12:S3:240:ALA:HA	12:S3:321:LEU:HD21	1.94	0.49
12:S3:285:ARG:HD3	12:S3:286:GLY:N	2.26	0.49
12:S4:153:LEU:H	12:S4:153:LEU:HD23	1.77	0.49
9:SH:234:SER:O	9:SH:238:THR:OG1	2.28	0.49
8:SI:88:HIS:CE1	8:SI:90:GLU:HB2	2.46	0.49
9:SJ:427:ASP:OD2	9:SJ:427:ASP:N	2.45	0.49
14:T1:360:ARG:HB3	14:T1:363:ARG:HH21	1.77	0.49
14:T1:386:MET:O	14:T1:389:ARG:NH2	2.45	0.49
8:TE:123:ARG:HD3	8:TE:161:TYR:OH	2.12	0.49
8:TG:7:ILE:HD12	8:TG:137:ILE:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TK:248:LEU:HD21	9:TL:222:TYR:HE2	1.77	0.49
8:TM:6:SER:HB3	8:TM:8:HIS:NE2	2.27	0.49
30:U5:180:ALA:O	30:U5:184:VAL:HG23	2.12	0.49
9:UD:372:THR:HA	9:UD:422:TYR:CE1	2.46	0.49
8:UE:134:GLY:HA2	8:UE:164:LYS:HG3	1.94	0.49
9:UF:317:PHE:HB3	9:UF:321:MET:HE1	1.93	0.49
9:UH:371:SER:O	9:UH:422:TYR:OH	2.28	0.49
30:V0:404:ASN:OD1	30:V0:405:VAL:N	2.44	0.49
30:V6:198:ARG:O	30:V6:201:ARG:NH1	2.45	0.49
30:V7:388:PRO:HA	30:V7:391:MET:HG2	1.94	0.49
30:V8:238:PHE:O	30:V8:241:ARG:HG3	2.12	0.49
30:V8:240:ILE:HA	30:V8:243:ASN:ND2	2.27	0.49
8:VE:88:HIS:HD2	8:WE:283:HIS:HB3	1.76	0.49
9:VH:245:GLN:NE2	9:VH:353:VAL:HB	2.24	0.49
8:VM:345:ASP:OD1	8:VM:345:ASP:N	2.45	0.49
9:VN:258:VAL:HB	8:VO:407:TRP:HZ2	1.77	0.49
8:WG:167:LEU:HD23	8:WG:202:PHE:HE2	1.77	0.49
9:WH:285:THR:O	9:WH:288:GLU:HG2	2.12	0.49
9:WH:350:LYS:HD2	8:WI:180:ALA:HA	1.94	0.49
8:WI:27:GLU:OE2	8:WI:236:SER:OG	2.22	0.49
8:WK:3:GLU:H	8:WK:133:GLN:HG2	1.78	0.49
9:WN:72:THR:O	9:WN:75:SER:OG	2.21	0.49
34:X8:212:PHE:HB3	34:X8:223:ARG:HD2	1.94	0.49
35:XE:39:ASP:HB2	35:XE:46:VAL:HG11	1.93	0.49
35:XF:17:ILE:HD12	35:XF:163:ARG:HH12	1.77	0.49
31:Y:448:VAL:HG22	31:Y:449:ASP:H	1.76	0.49
37:YA:32:MET:HB3	37:YA:35:SER:HB3	1.92	0.49
42:e:398:ILE:HB	42:e:412:ILE:HB	1.94	0.49
42:e:426:THR:OG1	42:e:428:ASP:OD1	2.23	0.49
43:i:146:ILE:HD11	45:m:61:TRP:CD2	2.47	0.49
43:k:167:LYS:NZ	43:k:171:GLU:HG3	2.27	0.49
2:1:768:ASN:OD1	2:1:769:ALA:N	2.45	0.49
2:1:832:GLU:O	2:1:836:ASN:ND2	2.45	0.49
3:3:371:LYS:HD3	9:GD:360:GLY:CA	2.43	0.49
7:A3:96:THR:O	7:A3:100:ARG:HG3	2.12	0.49
9:AB:2:ARG:HH21	9:AB:46:ARG:HD2	1.76	0.49
9:AD:14:ASN:HD21	9:AD:73:MET:HE1	1.78	0.49
9:AF:317:PHE:HE1	9:AF:326:VAL:HG13	1.78	0.49
8:AI:192:HIS:ND1	8:AI:424:ASP:OD2	2.42	0.49
9:AJ:107:THR:OG1	9:AJ:108:GLU:N	2.44	0.49
8:AO:283:HIS:CD2	8:MO:88:HIS:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AP:116:VAL:O	9:AP:120:VAL:HG12	2.12	0.49
9:AP:257:MET:HE1	9:AP:314:ALA:HB2	1.94	0.49
10:B:268:ARG:HA	10:B:271:ILE:HD12	1.93	0.49
8:BE:220:GLU:OE1	8:BE:220:GLU:N	2.35	0.49
8:BI:43:GLY:HA2	25:V:222:LYS:HG3	1.94	0.49
9:BJ:107:THR:OG1	9:BJ:108:GLU:N	2.45	0.49
10:C:243:LYS:O	10:C:246:GLU:HG2	2.12	0.49
8:CC:112:LYS:HE3	8:CC:152:LEU:HD22	1.94	0.49
9:CD:322:SER:OG	8:CE:222:PRO:O	2.29	0.49
8:CE:101:ASN:HD21	8:CE:180:ALA:HB1	1.77	0.49
8:CG:365:GLY:N	40:a2:92:GLU:OE1	2.43	0.49
9:CJ:321:MET:N	9:CJ:321:MET:SD	2.86	0.49
8:CK:238:ILE:HD11	8:CK:378:LEU:HD21	1.94	0.49
9:CN:245:GLN:O	8:CO:11:GLN:NE2	2.45	0.49
9:CP:44:LEU:HA	9:CP:47:ILE:HG23	1.94	0.49
14:D3:24:ARG:HG2	14:D3:26:GLU:H	1.75	0.49
9:DB:54:ALA:HB3	9:DB:58:LYS:HB2	1.93	0.49
9:DD:113:VAL:HG13	9:DD:147:MET:HE2	1.95	0.49
9:DN:323:MET:HE1	8:DO:223:THR:HA	1.93	0.49
9:DP:344:TRP:CD1	9:DP:344:TRP:H	2.31	0.49
9:EF:8:GLN:HE21	9:EF:14:ASN:HA	1.76	0.49
9:EF:404:ASP:OD1	9:EF:404:ASP:N	2.34	0.49
8:EK:172:TYR:HB2	8:EK:203:MET:HB3	1.94	0.49
8:EK:286:LEU:O	8:EK:373:ARG:NH1	2.45	0.49
8:EM:40:LYS:H	31:Z:435:ARG:HH12	1.59	0.49
15:F:158:LEU:HD12	15:F:159:GLU:H	1.76	0.49
9:FJ:257:MET:SD	9:FJ:312:THR:OG1	2.62	0.49
8:FO:250:VAL:HG13	8:FO:254:GLU:HB2	1.94	0.49
9:GL:311:LEU:HD13	9:GL:342:VAL:HG11	1.93	0.49
8:HA:255:PHE:HA	8:HA:352:LYS:HE2	1.93	0.49
9:HD:322:SER:OG	8:HE:222:PRO:O	2.27	0.49
8:HE:431:ASP:O	8:HE:435:VAL:HG23	2.12	0.49
9:HF:125:GLU:HB3	36:Y1:199:GLN:O	2.13	0.49
9:HJ:256:ASN:HD21	8:HK:181:VAL:H	1.59	0.49
9:HJ:374:ILE:HD11	9:HJ:377:LEU:HD23	1.95	0.49
8:HM:96:LYS:HE3	36:Y1:81:LYS:H	1.77	0.49
9:HP:113:VAL:O	9:HP:117:LEU:HG	2.12	0.49
8:IC:49:PHE:HB2	8:IC:53:PHE:HD2	1.76	0.49
9:ID:165:ASN:OD1	9:ID:198:GLU:HB2	2.12	0.49
9:ID:416:ASN:O	9:ID:420:SER:OG	2.21	0.49
8:IE:308:ARG:NE	36:Y1:222:SER:HB3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IH:7:LEU:HD23	9:IH:64:VAL:HB	1.94	0.49
9:IH:295:ASP:CG	36:Y1:164:LYS:HZ3	2.20	0.49
8:IK:3:GLU:H	8:IK:133:GLN:HG2	1.77	0.49
8:IK:188:ILE:HD13	8:IK:425:LEU:HD12	1.94	0.49
9:IL:309:ARG:HH21	9:IL:342:VAL:HA	1.76	0.49
9:IN:86:ARG:NH2	8:JO:283:HIS:O	2.46	0.49
9:IN:296:ALA:HB3	36:Y1:55:GLY:HA2	1.93	0.49
19:J3:45:MET:HG3	19:J3:46:GLU:H	1.78	0.49
19:J3:123:MET:HE1	19:J3:141:TYR:HD2	1.76	0.49
19:J5:79:PRO:HB2	19:J5:83:PHE:CZ	2.47	0.49
8:JC:265:ILE:HG12	8:JC:432:TYR:HE1	1.77	0.49
8:JE:2:ARG:HB3	8:JE:242:LEU:HD23	1.93	0.49
8:JG:56:THR:HG22	8:KE:285:GLN:HB2	1.93	0.49
9:JH:103:LYS:HE2	9:JH:401:GLU:OE2	2.12	0.49
8:JI:118:VAL:HG21	8:JI:149:PHE:HZ	1.77	0.49
9:JJ:16:ILE:O	9:JJ:20:PHE:N	2.37	0.49
9:JJ:54:ALA:HA	9:KH:283:ALA:HB2	1.93	0.49
8:JM:367:ASP:OD1	8:JM:367:ASP:N	2.45	0.49
13:K3:386:PRO:HD2	13:K3:386:PRO:O	2.12	0.49
9:KH:245:GLN:NE2	8:KI:223:THR:OG1	2.44	0.49
9:KH:346:PRO:HD3	8:KI:397:LEU:HD11	1.94	0.49
9:KJ:176:SER:OG	9:KJ:181:GLU:OE1	2.22	0.49
8:KM:56:THR:HA	8:LM:285:GLN:HB3	1.94	0.49
8:KM:377:MET:HA	8:KM:377:MET:HE2	1.93	0.49
9:KP:156:ARG:HD3	9:KP:164:MET:HG3	1.93	0.49
8:LA:203:MET:HE1	8:LA:267:PHE:CD1	2.48	0.49
8:LA:348:PRO:HB2	9:LB:384:GLN:HE22	1.77	0.49
9:LH:70:PRO:HG3	9:LH:92:PHE:HD2	1.77	0.49
9:LH:195:ASN:O	9:LH:196:THR:OG1	2.28	0.49
9:MD:256:ASN:HD21	9:MD:350:LYS:HB2	1.76	0.49
9:ML:45:GLU:OE2	9:ML:46:ARG:NH2	2.45	0.49
9:MP:156:ARG:HG3	9:MP:195:ASN:HB3	1.93	0.49
9:NB:324:LYS:HE2	8:NC:210:TYR:HA	1.95	0.49
9:NF:28:HIS:C	9:NF:30:ILE:H	2.20	0.49
8:NG:223:THR:OG1	8:NG:224:TYR:N	2.45	0.49
8:NI:118:VAL:HG21	8:NI:149:PHE:HZ	1.77	0.49
9:NJ:1:MET:HG2	9:NJ:2:ARG:H	1.77	0.49
9:NJ:146:GLY:O	9:NJ:149:THR:OG1	2.28	0.49
9:NJ:318:ARG:HE	9:NJ:358:PRO:HD3	1.77	0.49
9:NJ:378:PHE:CE1	9:NJ:415:MET:HE2	2.46	0.49
9:NN:223:GLY:O	9:NN:227:HIS:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NO:53:PHE:HB3	8:NO:61:HIS:HB2	1.93	0.49
25:O5:336:THR:HA	25:O5:340:ARG:O	2.12	0.49
17:O7:219:SER:HA	17:O7:236:TYR:CD2	2.48	0.49
17:O8:98:PHE:HA	30:W4:57:HIS:O	2.11	0.49
9:OD:286:VAL:O	9:OD:290:THR:HG23	2.11	0.49
9:OD:295:ASP:OD2	9:OD:297:LYS:HG3	2.12	0.49
9:OD:344:TRP:H	9:OD:344:TRP:CD1	2.31	0.49
9:OF:327:ASP:HB3	8:OG:177:VAL:HG21	1.93	0.49
9:OH:207:LEU:HB3	9:OH:225:LEU:HG	1.94	0.49
9:OL:15:GLN:HB3	9:OL:222:TYR:HE2	1.77	0.49
9:PD:325:GLU:OE2	9:PD:326:VAL:HG23	2.12	0.49
8:PM:206:ASN:HB3	8:PM:210:TYR:CE2	2.47	0.49
9:PN:211:CYS:HB3	9:PN:220:PRO:HG3	1.94	0.49
28:Q4:151:VAL:HG12	28:Q4:152:THR:HG23	1.94	0.49
8:QC:136:LEU:HD12	8:QC:138:PHE:HE1	1.77	0.49
8:QE:117:LEU:HD13	8:QE:121:ARG:HH21	1.77	0.49
9:QH:234:SER:O	9:QH:318:ARG:NH1	2.45	0.49
8:QI:183:GLU:CD	8:QI:184:PRO:HD3	2.37	0.49
9:QL:170:VAL:HG11	9:QL:377:LEU:HD21	1.94	0.49
8:QM:172:TYR:HB2	8:QM:203:MET:HB2	1.94	0.49
9:QN:54:ALA:HB3	9:QN:58:LYS:HE3	1.95	0.49
11:R3:385:LEU:O	11:R3:389:LYS:HG2	2.13	0.49
11:R5:29:GLU:OE2	11:R5:32:ARG:NH2	2.44	0.49
8:RC:318:LEU:HB2	8:RC:376:CYS:HB3	1.94	0.49
9:RF:136:THR:HG22	9:RF:167:PHE:HB2	1.95	0.49
9:RH:183:TYR:CZ	9:RH:388:MET:HE3	2.46	0.49
9:RJ:165:ASN:ND2	9:RJ:200:TYR:OH	2.41	0.49
9:RN:327:ASP:HA	9:RN:330:MET:SD	2.52	0.49
8:RO:317:MET:CE	8:RO:351:PHE:HD1	2.25	0.49
9:RP:309:ARG:H	9:RP:372:THR:HB	1.78	0.49
12:S2:39:HIS:CD2	12:S2:40:ARG:HG3	2.47	0.49
12:S2:466:LEU:HB3	14:T1:7:LEU:HD11	1.95	0.49
12:S3:181:LEU:HD23	12:S3:237:LEU:HD23	1.95	0.49
12:S7:406:ARG:NH2	12:S7:412:CYS:O	2.45	0.49
9:SB:256:ASN:HD22	8:SC:182:VAL:HG22	1.77	0.49
8:SC:91:GLN:HE22	8:SC:121:ARG:HD2	1.77	0.49
8:SG:88:HIS:CE1	8:SG:90:GLU:HB3	2.47	0.49
8:SI:209:ILE:HD12	8:SI:227:LEU:HD23	1.94	0.49
9:SJ:224:ASP:O	9:SJ:228:LEU:HD22	2.13	0.49
8:SM:258:ASN:HD21	9:SN:179:VAL:H	1.58	0.49
9:SN:117:LEU:HD11	9:SN:154:LYS:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TA:319:TYR:HB3	8:TA:323:VAL:HG11	1.94	0.49
8:TE:102:ASN:HB3	8:TE:105:ARG:HB2	1.94	0.49
8:TE:215:ARG:NH1	8:TE:216:ASN:OD1	2.44	0.49
8:TG:11:GLN:HA	8:TG:74:VAL:HG11	1.95	0.49
9:TH:267:MET:HG2	9:TH:301:ALA:CB	2.42	0.49
8:TI:230:LEU:O	8:TI:234:ILE:HG12	2.12	0.49
9:TJ:5:VAL:HB	9:TJ:133:PHE:HD1	1.77	0.49
25:U:289:PRO:HB2	25:U:290:LEU:HD12	1.94	0.49
30:U5:351:THR:HA	30:U5:462:LEU:HD11	1.95	0.49
30:U6:89:ARG:HH21	30:U7:198:ARG:HH21	1.59	0.49
8:UE:164:LYS:O	8:UE:166:LYS:NZ	2.45	0.49
9:UJ:52:ASN:HB3	9:UJ:60:VAL:HG23	1.93	0.49
8:UM:352:LYS:NZ	9:UN:179:VAL:HG13	2.26	0.49
8:UO:318:LEU:O	8:UO:320:ARG:NH2	2.46	0.49
30:V0:360:GLN:O	30:V0:364:ILE:HG12	2.12	0.49
30:V5:322:GLU:O	30:V5:326:GLU:HG2	2.12	0.49
30:V7:149:LEU:HD11	30:V7:291:SER:HB3	1.93	0.49
30:V8:270:LEU:CD1	4:j1:197:PRO:HG3	2.42	0.49
8:VE:62:VAL:HG22	8:WE:283:HIS:CD2	2.46	0.49
8:VE:345:ASP:N	8:VE:345:ASP:OD1	2.43	0.49
8:VG:40:LYS:HE2	8:VG:41:THR:H	1.77	0.49
8:VG:211:ASP:OD1	8:VG:304:LYS:NZ	2.45	0.49
9:VH:247:ASN:HD22	8:VI:74:VAL:HG22	1.77	0.49
9:VJ:1:MET:HE2	8:VK:72:PRO:HG3	1.94	0.49
9:VJ:22:GLU:HG2	9:VJ:81:PHE:HB2	1.94	0.49
31:W:460:ASP:OD2	31:W:483:ARG:NH2	2.44	0.49
8:WG:317:MET:N	8:WG:317:MET:HE2	2.27	0.49
8:WG:317:MET:N	8:WG:352:LYS:O	2.44	0.49
9:WH:252:LYS:HA	8:WI:100:ALA:HB1	1.93	0.49
9:WH:271:ALA:HB1	9:WH:289:LEU:HD22	1.95	0.49
9:WL:207:LEU:HD12	9:WL:225:LEU:HA	1.93	0.49
8:WM:112:LYS:H	8:WM:112:LYS:HZ3	1.60	0.49
9:WN:256:ASN:HD22	8:WO:182:VAL:HG22	1.77	0.49
35:XB:107:ASN:OD1	35:XB:107:ASN:N	2.45	0.49
37:YG:222:GLU:OE2	37:YG:222:GLU:N	2.44	0.49
41:b2:140:LEU:O	41:b2:144:GLN:HG3	2.12	0.49
41:b4:393:LEU:HD23	41:b5:115:ARG:HH21	1.77	0.49
42:f:170:ARG:HH22	42:f:186:GLU:HG2	1.77	0.49
43:h:180:LEU:O	43:h:184:ALA:CB	2.50	0.49
43:j:234:MET:O	43:j:238:GLU:HG3	2.11	0.49
2:1:696:GLU:HB2	2:1:699:SER:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A:51:MET:CE	15:N2:103:GLN:HG2	2.43	0.49
7:A3:296:ILE:O	7:A3:300:GLU:HG3	2.13	0.49
7:A3:395:LYS:HG2	12:C3:362:HIS:CE1	2.48	0.49
9:AD:249:ASP:N	9:AD:249:ASP:OD1	2.44	0.49
8:AG:73:THR:O	8:AG:77:GLU:HG2	2.12	0.49
8:AI:163:LYS:HE3	8:AI:163:LYS:HA	1.93	0.49
8:AK:39:ASP:HB2	33:X4:359:ARG:HH21	1.78	0.49
9:AN:245:GLN:NE2	33:X5:86:VAL:HG11	2.27	0.49
8:AO:284:GLU:HG3	8:AO:286:LEU:HD21	1.95	0.49
11:B3:150:VAL:O	11:B3:153:GLU:HG3	2.12	0.49
11:B3:185:ILE:HA	28:Q3:137:MET:HE1	1.94	0.49
8:BK:130:THR:OG1	8:BK:131:GLY:N	2.45	0.49
8:BM:136:LEU:HD13	8:BM:167:LEU:HB2	1.94	0.49
9:BP:41:ASP:OD2	17:O7:275:ILE:N	2.38	0.49
10:C:454:GLU:O	10:C:458:LYS:HG2	2.12	0.49
9:CF:325:GLU:HA	9:CF:328:GLU:HB3	1.94	0.49
14:D1:81:SER:HB2	14:D2:339:LEU:HD21	1.93	0.49
9:DB:116:VAL:HG11	9:DB:151:LEU:HD11	1.95	0.49
9:DD:31:ASP:OD1	9:DD:35:THR:N	2.44	0.49
9:DN:113:VAL:HG11	9:DN:150:LEU:HD23	1.93	0.49
9:DN:344:TRP:H	9:DN:344:TRP:CD1	2.31	0.49
8:DQ:345:ASP:N	8:DQ:345:ASP:OD1	2.44	0.49
9:EF:286:VAL:HG21	9:EF:321:MET:HG2	1.95	0.49
9:EN:133:PHE:HB2	9:EN:164:MET:HE1	1.92	0.49
8:EO:51:THR:HG21	8:EO:243:ARG:HG2	1.95	0.49
8:EO:84:ARG:HD3	17:Z5:216:LYS:HE3	1.94	0.49
8:FA:345:ASP:OD1	8:FA:345:ASP:N	2.34	0.49
8:FA:377:MET:HE2	8:FA:379:SER:HB3	1.94	0.49
9:FD:10:GLY:O	9:FD:14:ASN:ND2	2.45	0.49
8:FI:186:ASN:O	8:FI:190:THR:OG1	2.26	0.49
8:FI:204:VAL:HG12	8:FI:302:MET:HB3	1.93	0.49
9:FJ:138:SER:HA	9:FJ:169:VAL:HB	1.94	0.49
9:FJ:324:LYS:NZ	8:FK:210:TYR:HB3	2.27	0.49
9:FJ:350:LYS:HD2	8:FK:180:ALA:HA	1.94	0.49
8:FK:217:LEU:HD11	8:FK:368:LEU:HD23	1.94	0.49
8:GC:91:GLN:HG2	8:GC:121:ARG:NH2	2.28	0.49
9:GD:5:VAL:HB	9:GD:133:PHE:HD1	1.77	0.49
9:GF:135:LEU:HD23	9:GF:152:ILE:HD11	1.94	0.49
8:GI:338:LYS:NZ	36:Y2:136:THR:O	2.32	0.49
9:GJ:128:ASP:OD1	9:GJ:128:ASP:N	2.35	0.49
8:HC:107:HIS:HA	8:HC:152:LEU:HD23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HD:42:LEU:HA	9:HD:45:GLU:HB2	1.93	0.49
9:HJ:173:PRO:HG2	9:HJ:174:LYS:HD3	1.94	0.49
17:I:305:ARG:O	17:I:309:GLN:HG2	2.12	0.49
8:IA:104:ALA:HB1	8:IA:411:GLU:HB2	1.94	0.49
8:IA:215:ARG:NH1	8:IA:216:ASN:OD1	2.46	0.49
9:IB:257:MET:HA	9:IB:312:THR:HG21	1.94	0.49
9:ID:61:PRO:HD3	9:ID:84:ILE:HG13	1.95	0.49
9:IH:86:ARG:NH2	8:JI:280:LYS:HE3	2.27	0.49
8:II:114:ILE:HD11	8:II:117:LEU:HD23	1.94	0.49
8:II:191:THR:O	8:II:195:LEU:HB2	2.11	0.49
9:IN:113:VAL:HG11	9:IN:150:LEU:HD23	1.94	0.49
9:IN:282:ARG:HH11	9:IN:288:GLU:CD	2.20	0.49
9:IN:372:THR:HG21	9:IN:426:GLN:HG3	1.93	0.49
8:JK:185:TYR:O	8:JK:189:LEU:HG	2.12	0.49
8:JK:248:LEU:HD11	52:JL:502:GDP:H3'	1.93	0.49
9:JN:30:ILE:HG21	9:JN:51:TYR:CE1	2.46	0.49
8:JQ:69:ASP:O	8:JQ:94:THR:HA	2.12	0.49
17:K:30:GLN:HG3	17:K:42:LEU:HD21	1.94	0.49
8:KA:338:LYS:HD3	8:KA:340:THR:H	1.77	0.49
8:KC:153:LEU:O	8:KC:157:LEU:HB2	2.12	0.49
9:KP:7:LEU:HD13	9:KP:64:VAL:HB	1.94	0.49
8:LM:85:GLN:OE1	8:LM:85:GLN:N	2.38	0.49
22:M4:115:LYS:O	22:M4:119:GLN:HG2	2.13	0.49
9:MB:75:SER:HA	23:O:19:ARG:HH22	1.78	0.49
8:ME:33:ASP:OD2	8:ME:35:GLN:HG2	2.12	0.49
9:MH:139:LEU:HA	9:MH:145:SER:HB3	1.93	0.49
9:MP:77:ARG:HH12	9:MP:83:GLN:HG3	1.77	0.49
9:NH:324:LYS:O	9:NH:328:GLU:HG2	2.12	0.49
8:NI:91:GLN:NE2	8:NI:121:ARG:HH21	2.11	0.49
8:NK:56:THR:HG22	8:NK:60:LYS:H	1.77	0.49
8:NM:9:VAL:HB	8:NM:139:HIS:HB3	1.93	0.49
9:NP:207:LEU:HD22	9:NP:228:LEU:HD11	1.95	0.49
9:OB:205:GLU:O	9:OB:209:ASP:N	2.44	0.49
9:OD:156:ARG:NH1	9:OD:197:ASP:OD1	2.44	0.49
8:OE:149:PHE:HA	8:OE:152:LEU:HG	1.93	0.49
9:OH:198:GLU:HB2	9:OH:266:PHE:CE2	2.47	0.49
8:OI:115:VAL:HG22	8:OI:152:LEU:HD13	1.94	0.49
8:OI:271:THR:HB	8:OI:377:MET:HB3	1.94	0.49
8:OO:141:PHE:HB2	8:OO:173:PRO:HD3	1.94	0.49
26:P2:49:HIS:HB2	26:P2:55:ARG:HB3	1.94	0.49
26:P2:101:TRP:H	26:P2:101:TRP:CD1	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:P3:137:GLU:HB2	27:P3:148:LYS:HZ1	1.75	0.49
9:PB:324:LYS:H	8:PC:221:ARG:HH12	1.59	0.49
9:PD:217:LEU:HD21	9:PD:276:ARG:HH12	1.75	0.49
8:PE:154:MET:HE3	8:PE:193:THR:HG22	1.94	0.49
9:PF:58:LYS:NZ	9:PF:59:TYR:O	2.42	0.49
9:PL:16:ILE:HD13	9:PL:226:ASN:HA	1.94	0.49
9:PP:170:VAL:HG11	9:PP:377:LEU:HD11	1.95	0.49
28:Q3:44:LYS:HD3	12:S7:298:GLU:HB3	1.93	0.49
9:QB:325:GLU:H	8:QC:221:ARG:NH1	2.10	0.49
9:QD:74:ASP:OD1	9:QD:77:ARG:NH2	2.43	0.49
8:QG:79:ARG:NH2	8:QG:92:LEU:O	2.45	0.49
9:QH:329:GLN:O	9:QH:333:VAL:HG22	2.12	0.49
8:QI:28:HIS:HB3	8:QI:30:ILE:HD11	1.95	0.49
8:QI:116:ASP:OD1	8:QI:116:ASP:N	2.45	0.49
9:QJ:267:MET:HB3	9:QJ:299:MET:SD	2.53	0.49
9:QN:231:ALA:HB1	9:QN:270:PHE:CE2	2.47	0.49
9:QP:271:ALA:HB2	9:QP:365:ALA:HB3	1.94	0.49
11:R2:331:ARG:HD3	11:R2:336:TYR:CZ	2.47	0.49
11:R3:15:SER:O	11:R3:19:THR:HG23	2.11	0.49
11:R4:94:GLN:O	11:R4:97:GLU:HG3	2.13	0.49
9:RJ:7:LEU:N	9:RJ:134:GLN:O	2.43	0.49
8:RK:333:ALA:O	8:RK:337:THR:HG22	2.13	0.49
9:RL:183:TYR:OH	9:RL:388:MET:HG3	2.13	0.49
9:RN:314:ALA:HB3	9:RN:368:ILE:HG23	1.95	0.49
9:SB:401:GLU:HB2	9:SB:403:MET:HE1	1.94	0.49
9:SL:48:ASN:O	9:SL:62:ARG:NH2	2.46	0.49
9:SL:133:PHE:HB2	9:SL:164:MET:SD	2.52	0.49
8:SM:116:ASP:N	8:SM:116:ASP:OD1	2.45	0.49
9:SN:207:LEU:HD23	9:SN:300:MET:HB3	1.93	0.49
14:T2:22:LEU:HD23	14:T2:23:PRO:CD	2.43	0.49
8:TA:172:TYR:CD1	8:TA:203:MET:SD	3.05	0.49
8:TC:33:ASP:OD1	8:TC:34:GLY:N	2.45	0.49
9:TD:164:MET:N	9:TD:197:ASP:OD2	2.45	0.49
8:TE:345:ASP:N	8:TE:345:ASP:OD1	2.42	0.49
9:TJ:16:ILE:HD11	9:TJ:136:THR:HB	1.94	0.49
9:TJ:130:LEU:O	9:TJ:162:ARG:NH2	2.40	0.49
8:TK:313:MET:HG3	8:TK:344:VAL:HG11	1.95	0.49
8:TM:119:LEU:HD23	8:TM:122:ILE:HD11	1.94	0.49
30:U1:127:LYS:HA	30:U1:130:LEU:CD1	2.42	0.49
30:U7:123:ILE:HD12	30:U8:433:ARG:HH11	1.78	0.49
30:U7:479:THR:H	30:U7:480:PRO:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:121:ARG:HH21	8:UE:124:LYS:HB2	1.78	0.49
9:UH:8:GLN:HE21	9:UH:14:ASN:HA	1.75	0.49
9:UL:87:PRO:HA	9:UL:90:PHE:CE2	2.47	0.49
9:UN:309:ARG:HG3	9:UN:426:GLN:HG3	1.94	0.49
25:V:280:GLU:HG3	25:V:281:ARG:H	1.77	0.49
25:V:487:PRO:HA	25:V:490:PHE:HB2	1.94	0.49
30:V7:156:LEU:HD23	30:V7:304:ILE:HD11	1.94	0.49
30:V7:322:GLU:O	30:V7:326:GLU:HG3	2.13	0.49
8:VA:107:HIS:HA	8:VA:152:LEU:HD23	1.93	0.49
8:VA:278:ALA:O	39:a:373:ARG:NE	2.40	0.49
9:VD:245:GLN:HE22	9:VD:323:MET:HE2	1.78	0.49
8:VE:270:ALA:HA	8:VE:378:LEU:HD13	1.94	0.49
9:VL:31:ASP:OD1	9:VL:35:THR:N	2.45	0.49
8:VM:360:PRO:O	8:VM:370:LYS:NZ	2.35	0.49
9:WF:337:ASN:HB3	9:WF:340:TYR:HD2	1.77	0.49
8:WM:88:HIS:CE1	8:WM:90:GLU:HB3	2.47	0.49
8:WO:151:SER:HA	8:WO:193:THR:HG21	1.93	0.49
8:WO:317:MET:HE1	8:WO:375:VAL:HG23	1.95	0.49
35:XB:2:PHE:O	35:XB:7:GLN:NE2	2.45	0.49
35:XB:15:TYR:CD1	35:XB:164:ARG:HB2	2.47	0.49
35:XE:74:PRO:HD2	35:XE:169:ASP:HA	1.94	0.49
35:XG:180:GLU:N	35:XG:180:GLU:OE2	2.44	0.49
36:Y2:150:PRO:O	36:Y2:151:HIS:ND1	2.45	0.49
37:YD:97:PHE:HA	37:YD:115:ILE:HD11	1.93	0.49
31:Z:171:ASP:HB3	31:Z:174:THR:HG23	1.95	0.49
17:Z4:244:MET:HE2	17:Z4:244:MET:HA	1.94	0.49
40:a4:139:ASP:O	40:a4:143:GLN:HG2	2.13	0.49
39:b:453:GLN:O	39:b:457:ILE:HG13	2.11	0.49
41:b3:240:GLU:O	41:b3:243:GLN:HG2	2.12	0.49
44:h1:128:GLN:HA	44:h1:131:VAL:HG12	1.93	0.49
43:k:9:SER:OG	43:k:10:ILE:N	2.45	0.49
47:p:235:GLU:O	47:p:239:ARG:HG2	2.13	0.49
48:r:135:LYS:HD3	48:r:136:GLU:N	2.27	0.49
4:5:225:HIS:ND1	4:5:225:HIS:O	2.45	0.49
4:6:113:THR:HB	4:6:188:ILE:HG12	1.94	0.49
4:6:127:GLU:O	4:6:131:MET:HG3	2.11	0.49
7:A1:304:THR:HA	7:A1:307:GLU:OE2	2.12	0.49
7:A4:93:THR:HG23	28:Q4:76:TRP:CH2	2.47	0.49
7:A4:282:LEU:O	7:A4:286:MET:HG3	2.13	0.49
8:AE:75:VAL:HB	8:AE:79:ARG:NH2	2.26	0.49
9:AF:121:ARG:NH1	9:AF:158:GLU:OE1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:245:ASP:N	8:AG:245:ASP:OD1	2.43	0.49
8:AG:247:ALA:HB2	8:AG:357:TYR:HE1	1.77	0.49
8:AG:298:PRO:HG3	8:AG:308:ARG:HH12	1.77	0.49
11:B1:293:LEU:HD23	11:B1:363:LEU:HD13	1.95	0.49
11:B2:86:ASP:OD2	28:Q2:111:GLN:NE2	2.45	0.49
11:B3:264:THR:HA	11:B3:267:LYS:HD3	1.94	0.49
8:BE:276:ILE:HD13	8:BE:281:ALA:HB2	1.93	0.49
9:BF:251:ARG:HH11	8:BG:105:ARG:NH1	2.11	0.49
8:BG:297:GLU:OE1	8:BG:300:ASN:ND2	2.45	0.49
8:BK:346:TRP:O	9:BL:388:MET:HG2	2.13	0.49
12:C0:135:ILE:HD11	12:C1:430:THR:HG21	1.95	0.49
12:C1:89:THR:N	17:O9:184:ASP:OD2	2.33	0.49
8:CG:88:HIS:CE1	8:CG:90:GLU:HB3	2.48	0.49
9:CH:207:LEU:HD23	9:CH:225:LEU:HB3	1.93	0.49
8:CK:365:GLY:N	40:a3:92:GLU:OE2	2.45	0.49
8:CO:53:PHE:HB3	8:CO:61:HIS:HB3	1.94	0.49
14:D2:159:ARG:NH2	14:D2:170:ASP:OD1	2.44	0.49
8:DC:186:ASN:OD1	8:DC:408:TYR:OH	2.27	0.49
8:DC:320:ARG:O	8:DC:374:ALA:N	2.44	0.49
8:DM:206:ASN:OD1	50:DM:501:GTP:N2	2.45	0.49
8:DQ:116:ASP:OD2	8:DQ:117:LEU:N	2.45	0.49
8:EE:317:MET:HA	8:EE:317:MET:HE2	1.94	0.49
9:EF:207:LEU:HD23	9:EF:228:LEU:HD12	1.94	0.49
9:EF:252:LYS:HD2	8:EG:100:ALA:HA	1.94	0.49
9:EL:60:VAL:HG11	9:FL:281:TYR:HB3	1.93	0.49
8:EM:195:LEU:HD13	8:EM:428:LEU:HD11	1.94	0.49
8:FA:123:ARG:HH12	36:Y3:68:PRO:N	2.11	0.49
9:FB:32:PRO:HA	9:FB:84:ILE:HD11	1.93	0.49
9:FF:138:SER:HA	9:FF:169:VAL:HB	1.94	0.49
8:FG:7:ILE:HD11	8:FG:135:PHE:HB3	1.95	0.49
8:FI:194:THR:O	8:FI:266:HIS:NE2	2.41	0.49
8:FK:326:LYS:HD2	9:FL:220:PRO:HD2	1.94	0.49
8:GC:180:ALA:HB3	8:GC:183:GLU:HB3	1.95	0.49
9:GD:267:MET:N	9:GD:267:MET:SD	2.85	0.49
9:GF:8:GLN:HB2	9:GF:65:LEU:HA	1.93	0.49
9:GH:167:PHE:CE2	9:GH:233:MET:HG2	2.48	0.49
8:GK:101:ASN:ND2	8:GK:143:GLY:HA2	2.28	0.49
8:GO:130:THR:OG1	8:GO:131:GLY:N	2.45	0.49
8:HC:195:LEU:HD11	8:HC:264:ARG:HD2	1.95	0.49
9:HD:101:TRP:CD1	9:HD:146:GLY:HA2	2.47	0.49
8:HG:69:ASP:O	8:HG:94:THR:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HH:309:ARG:NH2	9:HH:339:SER:O	2.45	0.49
8:HK:114:ILE:HG23	8:HK:117:LEU:HD23	1.95	0.49
9:IB:173:PRO:HD3	9:IB:380:ARG:CZ	2.42	0.49
8:IC:320:ARG:HD3	8:IC:360:PRO:HG3	1.93	0.49
9:IF:112:LEU:O	9:IF:116:VAL:HG23	2.12	0.49
8:IG:201:ALA:O	8:IG:268:PRO:HD2	2.12	0.49
9:IJ:198:GLU:HB2	9:IJ:266:PHE:CE2	2.47	0.49
9:IJ:230:SER:HA	9:IJ:233:MET:HG3	1.95	0.49
8:IK:28:HIS:CD2	8:IK:49:PHE:HA	2.47	0.49
8:IK:140:SER:HA	8:IK:171:ILE:H	1.78	0.49
8:IK:288:VAL:O	8:IK:292:THR:HG23	2.13	0.49
8:IM:350:GLY:HA2	9:IN:179:VAL:HG13	1.95	0.49
9:IN:170:VAL:HG11	9:IN:201:CYS:HB2	1.95	0.49
19:J2:247:HIS:CE1	45:m:88:ALA:HB1	2.47	0.49
19:J3:57:MET:HA	19:J3:63:ILE:HG13	1.94	0.49
19:J5:55:ASP:HA	19:J5:58:PHE:HD2	1.78	0.49
9:JB:247:ASN:H	8:JC:11:GLN:HE22	1.58	0.49
9:JL:54:ALA:HB3	9:JL:58:LYS:HB2	1.94	0.49
8:JM:169:PHE:HA	8:JM:202:PHE:HB2	1.94	0.49
8:KA:346:TRP:HZ2	8:KA:435:VAL:HG13	1.76	0.49
9:KH:147:MET:O	9:KH:151:LEU:N	2.43	0.49
9:KL:406:MET:HA	9:KL:406:MET:HE3	1.95	0.49
8:KM:133:GLN:HB3	8:KM:252:LEU:HD23	1.95	0.49
8:LC:276:ILE:HD11	8:LC:286:LEU:HD11	1.94	0.49
9:LF:276:ARG:HD2	29:S:369:PHE:CZ	2.48	0.49
8:LG:262:TYR:OH	9:LH:391:ARG:O	2.31	0.49
9:LJ:176:SER:OG	9:LJ:181:GLU:OE1	2.21	0.49
8:LM:318:LEU:HB2	8:LM:376:CYS:HB3	1.94	0.49
8:LO:130:THR:OG1	8:LO:131:GLY:N	2.45	0.49
22:M3:150:PRO:HA	25:V:104:GLN:HE21	1.78	0.49
9:MF:151:LEU:O	9:MF:155:ILE:HG13	2.13	0.49
8:MK:248:LEU:HB2	8:MK:355:ILE:HB	1.93	0.49
8:MM:70:LEU:HB2	8:MM:145:THR:HG21	1.93	0.49
6:N1:28:ASN:HA	6:N1:31:ILE:HD12	1.94	0.49
8:NA:30:ILE:HD12	8:NA:61:HIS:CE1	2.47	0.49
8:NA:147:SER:OG	8:NA:190:THR:OG1	2.22	0.49
8:NC:298:PRO:HA	8:NC:301:GLN:HG2	1.95	0.49
8:NI:7:ILE:HA	8:NI:66:VAL:HG12	1.94	0.49
9:NJ:63:ALA:HB3	9:NJ:85:PHE:CE1	2.47	0.49
9:NJ:165:ASN:HB3	9:NJ:198:GLU:OE2	2.13	0.49
8:NO:102:ASN:HB3	8:NO:105:ARG:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NO:349:THR:HG21	9:NP:176:SER:HB3	1.93	0.49
8:OI:320:ARG:HD3	8:OI:360:PRO:HG3	1.94	0.49
9:OJ:21:TRP:CD2	9:OJ:61:PRO:HB3	2.47	0.49
9:OJ:296:ALA:HA	9:OJ:299:MET:HE1	1.95	0.49
8:OK:132:LEU:HD23	8:OK:164:LYS:HG3	1.93	0.49
8:OK:326:LYS:HD2	9:OL:220:PRO:HD2	1.94	0.49
8:OO:147:SER:OG	8:OO:190:THR:OG1	2.25	0.49
8:OO:191:THR:HG21	8:OO:425:LEU:HD11	1.93	0.49
9:OP:310:TYR:HA	9:OP:371:SER:HA	1.95	0.49
17:P8:52:PRO:O	17:P8:53:CYS:SG	2.69	0.49
9:PH:68:LEU:HD12	9:PH:97:ALA:HB2	1.95	0.49
8:PI:35:GLN:HE22	8:PI:60:LYS:HG3	1.77	0.49
9:PJ:7:LEU:N	9:PJ:134:GLN:O	2.45	0.49
9:PN:285:THR:O	9:PN:363:MET:HE1	2.13	0.49
8:PO:188:ILE:HD13	8:PO:425:LEU:HD12	1.93	0.49
9:QB:4:ILE:HD11	9:QB:134:GLN:HB2	1.94	0.49
8:RG:64:ARG:HH21	8:RG:128:LEU:HG	1.78	0.49
9:RJ:362:LYS:HG3	9:RJ:363:MET:HG2	1.93	0.49
9:RP:31:ASP:OD1	9:RP:35:THR:N	2.45	0.49
12:S3:372:ILE:HD11	12:S3:448:LEU:HB3	1.93	0.49
12:S5:343:VAL:HG11	12:S5:477:ARG:HH22	1.78	0.49
12:S6:385:ALA:O	12:S6:389:LYS:NZ	2.41	0.49
12:S8:209:ASP:OD1	12:S8:461:VAL:HG12	2.12	0.49
9:SB:363:MET:HE3	9:SB:363:MET:HA	1.95	0.49
8:SI:185:TYR:O	8:SI:189:LEU:HD23	2.12	0.49
8:SI:271:THR:HB	8:SI:377:MET:HB3	1.95	0.49
9:SN:14:ASN:HD21	9:SN:67:ASP:HB2	1.76	0.49
14:T4:211:CYS:HA	14:T4:264:ASN:HD21	1.78	0.49
8:TC:70:LEU:HD13	8:TC:98:ASP:HA	1.94	0.49
8:TC:395:PHE:HE2	8:TC:422:ARG:HB2	1.77	0.49
9:TD:316:VAL:HG22	9:TD:352:ALA:HB3	1.93	0.49
9:TF:167:PHE:HE2	9:TF:233:MET:HB2	1.77	0.49
8:TG:6:SER:HB3	8:TG:8:HIS:CD2	2.48	0.49
9:TH:304:ASP:HB3	9:TH:307:HIS:CE1	2.46	0.49
8:TI:171:ILE:HD12	8:TI:206:ASN:HD21	1.77	0.49
9:TJ:159:TYR:HB3	9:TJ:162:ARG:HG2	1.95	0.49
8:TK:101:ASN:HD22	8:TK:143:GLY:HA2	1.76	0.49
9:UB:178:THR:HB	9:UB:181:GLU:HB2	1.94	0.49
9:UD:285:THR:HB	9:UD:287:PRO:HD2	1.94	0.49
8:UE:2:ARG:NE	8:UE:2:ARG:HA	2.28	0.49
9:UF:252:LYS:HD3	8:UG:100:ALA:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UJ:60:VAL:HG21	9:UJ:86:ARG:HH21	1.77	0.49
9:UJ:113:VAL:O	9:UJ:117:LEU:HG	2.12	0.49
9:UJ:325:GLU:H	8:UK:221:ARG:HH22	1.60	0.49
8:UK:20:CYS:HB3	8:UK:24:TYR:CZ	2.47	0.49
9:UL:258:VAL:HB	8:UM:407:TRP:HZ2	1.77	0.49
9:UN:314:ALA:HB3	9:UN:368:ILE:HG22	1.95	0.49
25:V:516:MET:HE1	25:V:531:ILE:HG21	1.94	0.49
30:V0:464:ILE:HA	30:V0:468:LYS:HE3	1.93	0.49
9:VH:217:LEU:HB2	9:VH:220:PRO:HD3	1.92	0.49
9:VJ:322:SER:OG	8:VK:222:PRO:O	2.24	0.49
30:W0:153:LYS:HA	30:W0:156:LEU:HB2	1.93	0.49
30:W2:159:GLU:OE2	30:W2:304:ILE:HD11	2.13	0.49
8:WI:276:ILE:HG13	8:WI:280:LYS:HB3	1.93	0.49
8:WI:339:ARG:NH2	8:WI:342:GLN:HG2	2.27	0.49
8:WK:23:LEU:HD12	8:WK:26:LEU:HD11	1.95	0.49
9:WL:183:TYR:OH	9:WL:388:MET:O	2.30	0.49
9:WL:320:ARG:HH12	48:s:141:ILE:HG23	1.77	0.49
34:X6:152:ILE:HD12	34:X6:152:ILE:H	1.78	0.49
35:XA:104:ARG:HH21	35:XA:120:THR:HB	1.77	0.49
35:XB:33:HIS:CD2	35:XB:35:LYS:HE3	2.48	0.49
31:Y:489:PRO:HB3	31:Y:514:ASN:HD22	1.78	0.49
31:Y:641:ASN:O	31:Y:645:GLU:HG2	2.13	0.49
37:YE:181:LEU:HD23	37:YE:209:ILE:HG23	1.93	0.49
17:Z3:238:ASP:O	17:Z3:242:GLN:NE2	2.45	0.49
39:c:197:ILE:HG22	39:d:538:VAL:HG12	1.94	0.49
42:f:548:ILE:HD12	42:f:548:ILE:H	1.77	0.49
42:g:168:ARG:HG2	42:g:213:MET:SD	2.52	0.49
46:i3:1347:CYS:O	46:i3:1351:ASP:N	2.45	0.49
2:1:542:GLU:OE1	2:1:542:GLU:N	2.44	0.49
2:1:550:HIS:HA	9:IF:361:LEU:HD23	1.94	0.49
3:3:11:ARG:HB3	3:3:24:ARG:HD3	1.93	0.49
5:8:59:MET:HE3	8:JI:364:PRO:HG2	1.95	0.49
8:AA:413:MET:N	8:AA:413:MET:SD	2.85	0.49
8:AC:203:MET:H	8:AC:203:MET:CE	2.24	0.49
8:AI:203:MET:N	8:AI:203:MET:SD	2.86	0.49
9:AN:47:ILE:HG12	9:AN:51:TYR:HB2	1.95	0.49
9:AN:371:SER:O	9:AN:422:TYR:OH	2.21	0.49
9:AP:31:ASP:OD1	9:AP:31:ASP:N	2.46	0.49
9:AP:151:LEU:O	9:AP:155:ILE:HG12	2.12	0.49
9:AP:305:PRO:HA	9:AP:373:ALA:HB2	1.94	0.49
11:B2:178:ASP:OD1	11:B2:179:LYS:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BC:53:PHE:O	8:BC:64:ARG:NH1	2.46	0.49
9:BD:344:TRP:CD1	9:BD:344:TRP:H	2.29	0.49
9:BF:316:VAL:HG22	9:BF:352:ALA:HB3	1.94	0.49
9:BF:317:PHE:HB3	9:BF:321:MET:HE1	1.94	0.49
8:BO:93:ILE:HD11	8:BO:121:ARG:HG3	1.94	0.49
8:BO:265:ILE:HD11	8:BO:435:VAL:HG21	1.94	0.49
10:C:478:GLY:HA2	30:V2:313:ASN:HD21	1.76	0.49
8:CC:103:TYR:CD2	8:CC:189:LEU:HD13	2.47	0.49
9:CF:227:HIS:ND1	25:U:314:GLU:OE2	2.38	0.49
8:CQ:7:ILE:HG12	8:CQ:122:ILE:HD12	1.94	0.49
8:DC:201:ALA:HB3	8:DC:267:PHE:HA	1.94	0.49
8:DG:345:ASP:N	8:DG:345:ASP:OD1	2.44	0.49
9:DP:1:MET:N	9:DP:128:ASP:OD1	2.45	0.49
9:EF:198:GLU:HA	9:EF:264:HIS:HB2	1.95	0.49
8:EG:42:ILE:HD12	25:V:423:LEU:HB2	1.93	0.49
8:EI:312:TYR:HE2	8:EI:341:ILE:HD12	1.77	0.49
9:EJ:257:MET:HA	9:EJ:257:MET:HE3	1.93	0.49
8:EM:425:LEU:HA	8:EM:428:LEU:HB2	1.94	0.49
9:EN:8:GLN:HB3	9:EN:65:LEU:HA	1.95	0.49
9:FB:8:GLN:HB3	9:FB:65:LEU:HA	1.95	0.49
9:FB:31:ASP:OD1	9:FB:35:THR:N	2.46	0.49
9:FB:372:THR:HG21	9:FB:426:GLN:HB2	1.94	0.49
8:GC:317:MET:SD	8:GC:318:LEU:N	2.85	0.49
8:GE:248:LEU:HD22	8:GE:353:VAL:O	2.12	0.49
9:GF:54:ALA:HA	9:HF:283:ALA:HB2	1.95	0.49
9:GF:336:LYS:HD3	36:Y2:201:THR:HG22	1.94	0.49
9:GH:139:LEU:HB2	9:GH:171:PRO:HD3	1.95	0.49
8:GI:316:CYS:HB3	8:GI:378:LEU:HB2	1.94	0.49
9:GN:335:ASN:HD22	36:Y2:38:PHE:HZ	1.59	0.49
9:HB:31:ASP:OD1	9:HB:35:THR:N	2.45	0.49
9:HB:165:ASN:HB3	9:HB:198:GLU:OE1	2.13	0.49
9:HB:323:MET:HA	9:HB:326:VAL:HB	1.92	0.49
8:HC:28:HIS:NE2	8:HC:48:SER:OG	2.41	0.49
8:HC:215:ARG:NH2	8:HC:300:ASN:OD1	2.40	0.49
9:HF:72:THR:O	9:HF:75:SER:OG	2.26	0.49
9:HF:268:PRO:HG2	9:HF:300:MET:HG3	1.95	0.49
9:HF:323:MET:HE1	8:HG:224:TYR:H	1.78	0.49
9:HF:363:MET:HE3	9:HF:363:MET:HA	1.94	0.49
8:HG:388:TRP:HZ3	8:HG:432:TYR:HE2	1.61	0.49
8:HI:371:VAL:HG12	8:HI:373:ARG:H	1.76	0.49
8:IA:60:LYS:NZ	8:IA:61:HIS:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IH:35:THR:HG22	9:IH:58:LYS:HE2	1.94	0.49
9:IL:65:LEU:HD11	9:IL:85:PHE:CD2	2.48	0.49
9:IL:416:ASN:HA	9:IL:419:VAL:HG22	1.94	0.49
8:IM:311:LYS:HD2	8:IM:344:VAL:HA	1.94	0.49
9:IN:267:MET:SD	9:IN:299:MET:HB2	2.53	0.49
19:J5:132:LEU:HA	19:J5:137:GLU:OE2	2.13	0.49
9:JD:178:THR:HB	9:JD:181:GLU:HB2	1.95	0.49
9:JF:198:GLU:HB2	9:JF:266:PHE:HE2	1.78	0.49
8:JG:340:THR:O	8:JG:342:GLN:NE2	2.45	0.49
9:JN:178:THR:HB	9:JN:181:GLU:HG2	1.94	0.49
9:JN:183:TYR:HD2	9:JN:398:TYR:CZ	2.30	0.49
8:JO:245:ASP:N	8:JO:245:ASP:OD1	2.45	0.49
8:KC:70:LEU:HB3	8:KC:98:ASP:HA	1.95	0.49
9:KH:257:MET:HE2	9:KH:257:MET:HA	1.94	0.49
8:KI:6:SER:HB3	8:KI:8:HIS:NE2	2.28	0.49
8:KI:104:ALA:HB1	8:KI:411:GLU:OE1	2.13	0.49
9:KL:192:LEU:HD21	9:KL:199:THR:HG21	1.93	0.49
8:LA:147:SER:OG	8:LA:190:THR:OG1	2.28	0.49
8:LE:151:SER:HA	8:LE:193:THR:HG21	1.95	0.49
9:LF:229:VAL:O	9:LF:233:MET:HG3	2.11	0.49
8:LI:27:GLU:OE2	8:LI:243:ARG:NH2	2.45	0.49
8:LO:317:MET:HB2	8:LO:353:VAL:HA	1.94	0.49
17:M:305:ARG:O	17:M:309:GLN:HG2	2.11	0.49
22:M2:160:SER:O	22:M2:164:LEU:HG	2.13	0.49
22:M3:56:GLY:O	22:M3:60:SER:OG	2.31	0.49
8:MA:46:ASP:OD2	23:O:11:ARG:NH2	2.41	0.49
9:MB:31:ASP:OD2	9:MB:37:HIS:ND1	2.44	0.49
8:MM:213:CYS:HB3	8:MM:219:ILE:HD11	1.95	0.49
9:MP:69:GLU:CD	9:MP:71:GLY:H	2.20	0.49
17:N:214:GLN:HB3	17:N:244:MET:HE3	1.94	0.49
8:NE:108:TYR:HA	8:NE:112:LYS:HE3	1.92	0.49
8:NG:108:TYR:HA	8:NG:112:LYS:HE3	1.93	0.49
9:NH:324:LYS:HG3	8:NI:222:PRO:HD2	1.95	0.49
8:NK:288:VAL:O	8:NK:292:THR:HG22	2.12	0.49
9:NN:267:MET:HE2	9:NN:303:CYS:SG	2.53	0.49
8:OA:9:VAL:HB	8:OA:139:HIS:HB3	1.94	0.49
8:OA:20:CYS:HB3	8:OA:24:TYR:OH	2.12	0.49
9:OF:291:GLN:NE2	36:Y4:125:SER:OG	2.46	0.49
9:OL:247:ASN:O	9:OL:252:LYS:NZ	2.45	0.49
9:ON:344:TRP:H	9:ON:344:TRP:CD1	2.31	0.49
8:PG:172:TYR:HB2	8:PG:203:MET:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PK:219:ILE:HD12	8:PK:222:PRO:HB3	1.94	0.49
9:PL:256:ASN:HD21	8:PM:181:VAL:H	1.61	0.49
8:PM:319:TYR:HB3	8:PM:323:VAL:HG21	1.95	0.49
9:PN:86:ARG:HG2	9:PN:88:ASP:H	1.78	0.49
9:PN:170:VAL:HG11	9:PN:377:LEU:HD11	1.95	0.49
8:PO:3:GLU:OE2	8:PO:64:ARG:NH2	2.45	0.49
9:QB:86:ARG:HG3	9:QB:88:ASP:H	1.76	0.49
9:QB:147:MET:HE1	9:QB:150:LEU:HD23	1.93	0.49
8:QC:9:VAL:HB	8:QC:139:HIS:HB3	1.95	0.49
9:QF:257:MET:HE2	9:QF:314:ALA:HB2	1.95	0.49
8:QG:166:LYS:N	8:QG:199:ASP:OD2	2.38	0.49
8:QO:168:GLU:OE2	8:QO:194:THR:OG1	2.30	0.49
11:R4:385:LEU:O	11:R4:389:LYS:HG2	2.13	0.49
8:RC:137:ILE:HD13	8:RC:154:MET:SD	2.53	0.49
9:RH:407:GLU:HA	9:RH:410:GLU:HG2	1.95	0.49
9:RJ:363:MET:HE3	9:RJ:364:SER:H	1.78	0.49
9:RL:317:PHE:HB2	9:RL:353:VAL:HG22	1.93	0.49
12:S2:271:CYS:HB2	12:S3:399:ARG:HG2	1.94	0.49
12:S3:167:MET:HE2	12:S3:247:ASP:HB3	1.95	0.49
8:SE:113:GLU:N	8:SE:113:GLU:OE1	2.45	0.49
9:SF:178:THR:HB	9:SF:181:GLU:HB2	1.94	0.49
9:SF:323:MET:HE3	8:SG:224:TYR:CD2	2.47	0.49
9:SJ:324:LYS:HG3	8:SK:222:PRO:HD2	1.94	0.49
9:SJ:376:GLU:HG2	9:SJ:380:ARG:HH22	1.78	0.49
9:SJ:382:SER:HB2	9:SJ:415:MET:HE1	1.94	0.49
8:SM:311:LYS:H	8:SM:382:THR:HG22	1.77	0.49
9:SN:19:LYS:HE2	9:SN:223:GLY:HA2	1.94	0.49
14:T1:244:SER:OG	14:T1:245:SER:N	2.45	0.49
14:T4:159:ARG:HE	14:T4:162:ARG:NE	2.10	0.49
9:TB:7:LEU:HD23	9:TB:135:LEU:HB2	1.93	0.49
9:TH:258:VAL:HB	8:TI:407:TRP:HZ2	1.76	0.49
8:TI:139:HIS:O	8:TI:170:ALA:HA	2.13	0.49
8:TK:136:LEU:HA	8:TK:167:LEU:HG	1.95	0.49
9:TL:8:GLN:HE21	9:TL:14:ASN:HA	1.78	0.49
30:U1:212:GLU:O	30:U1:216:ILE:HG13	2.12	0.49
8:UA:152:LEU:O	8:UA:156:ARG:HG2	2.12	0.49
9:UB:1:MET:SD	9:UB:2:ARG:N	2.84	0.49
9:UJ:11:GLN:HA	9:UJ:14:ASN:HD21	1.78	0.49
8:UK:139:HIS:O	8:UK:170:ALA:HA	2.13	0.49
8:UK:313:MET:HG3	8:UK:344:VAL:HG11	1.93	0.49
8:UO:66:VAL:HG12	8:UO:68:VAL:HG13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V2:410:ASP:N	30:V2:410:ASP:OD1	2.41	0.49
30:V3:402:ARG:HG2	30:V4:263:ILE:HG21	1.93	0.49
9:VB:152:ILE:HA	9:VB:155:ILE:HG12	1.95	0.49
8:VE:223:THR:OG1	8:VE:224:TYR:N	2.46	0.49
8:VE:352:LYS:HZ1	9:VF:179:VAL:HG22	1.78	0.49
9:VF:74:ASP:HA	9:VF:77:ARG:HB2	1.94	0.49
8:VI:278:ALA:HA	8:VI:281:ALA:HB3	1.93	0.49
31:W:684:LYS:HD2	31:W:685:ASP:N	2.27	0.49
30:W0:322:GLU:HA	30:W0:325:PHE:CD2	2.48	0.49
30:W0:325:PHE:HB3	30:W0:480:PRO:HA	1.94	0.49
30:W2:310:MET:HA	30:W2:310:MET:HE2	1.95	0.49
9:WD:1:MET:N	9:WD:3:GLU:OE1	2.43	0.49
9:WH:198:GLU:HA	9:WH:264:HIS:HB2	1.95	0.49
8:WI:102:ASN:HB3	8:WI:105:ARG:HB2	1.95	0.49
8:WK:139:HIS:O	8:WK:170:ALA:HA	2.12	0.49
8:WM:339:ARG:O	8:WM:339:ARG:NE	2.41	0.49
8:WM:345:ASP:OD1	8:WM:345:ASP:N	2.45	0.49
9:WN:131:GLN:HE22	9:WN:250:LEU:H	1.60	0.49
8:WO:239:THR:OG1	8:WO:243:ARG:NH1	2.44	0.49
31:X:560:ARG:NH1	31:X:564:GLN:HB2	2.28	0.49
34:X7:136:LEU:HB2	34:X7:197:SER:HB3	1.94	0.49
34:X8:124:ARG:HA	34:X8:127:HIS:CE1	2.48	0.49
35:XB:33:HIS:HD2	35:XB:35:LYS:HE3	1.78	0.49
35:XC:29:VAL:HG22	35:XC:57:THR:HG23	1.94	0.49
35:XD:72:LYS:HZ3	35:XD:150:GLU:HB3	1.77	0.49
37:YC:57:ARG:NH2	37:YC:104:THR:OG1	2.45	0.49
31:Z:357:ASP:O	31:Z:360:THR:OG1	2.25	0.49
41:b4:365:MET:HE3	41:b4:365:MET:HA	1.93	0.49
41:b4:410:PRO:HB2	44:h4:110:LEU:HD21	1.95	0.49
39:c:482:VAL:O	39:c:486:GLN:N	2.30	0.49
42:g:524:ARG:NH1	42:g:544:LEU:O	2.43	0.49
4:j1:144:MET:HG2	4:j1:290:ILE:H	1.78	0.49
4:j1:350:GLU:OE1	4:j1:350:GLU:N	2.40	0.49
45:l:116:LYS:HG2	45:l:117:PRO:HD2	1.94	0.49
48:s:89:LYS:O	48:s:93:LEU:HD12	2.12	0.49
2:1:438:ASP:OD1	2:1:439:LEU:N	2.46	0.49
2:2:357:ILE:HD11	9:IL:227:HIS:CE1	2.48	0.49
4:5:378:LEU:HG	6:A:74:LEU:HD13	1.94	0.49
8:AA:215:ARG:NH2	8:AA:300:ASN:OD1	2.43	0.49
9:AF:7:LEU:HG	9:AF:135:LEU:HD13	1.93	0.49
9:AL:259:PRO:HG3	9:AL:311:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AN:167:PHE:CZ	9:AN:233:MET:HG2	2.47	0.49
11:B1:35:SER:O	11:B1:39:ARG:HG3	2.12	0.49
11:B4:321:ARG:HB3	11:B4:324:ARG:HH11	1.78	0.49
9:BB:215:LEU:HB3	9:BB:217:LEU:HG	1.95	0.49
8:BI:192:HIS:O	8:BI:196:GLU:HG2	2.13	0.49
8:BI:320:ARG:HD3	8:BI:360:PRO:HG3	1.94	0.49
8:BM:90:GLU:HG2	8:BM:121:ARG:NE	2.24	0.49
8:BM:391:LEU:HD13	8:BM:394:LYS:HD2	1.95	0.49
12:C4:132:TYR:O	12:C4:136:ARG:HG2	2.12	0.49
9:CB:6:HIS:NE2	9:CB:8:GLN:OE1	2.46	0.49
9:CB:31:ASP:OD1	9:CB:35:THR:N	2.44	0.49
9:CL:149:THR:HA	9:CL:152:ILE:HG22	1.94	0.49
8:CM:133:GLN:HB3	8:CM:252:LEU:HD21	1.93	0.49
8:CQ:3:GLU:OE2	8:CQ:64:ARG:NH2	2.45	0.49
14:D2:169:ARG:NE	14:D2:173:GLU:OE2	2.46	0.49
9:DB:293:MET:HE3	9:DB:367:PHE:HB2	1.94	0.49
9:DF:170:VAL:HG11	9:DF:377:LEU:HD21	1.94	0.49
9:DL:2:ARG:HD2	9:DL:240:LEU:HD11	1.94	0.49
9:DN:124:ALA:HA	9:DN:130:LEU:HD11	1.94	0.49
8:DO:108:TYR:HA	8:DO:112:LYS:HE3	1.94	0.49
8:DO:209:ILE:HG22	8:DO:227:LEU:HD22	1.95	0.49
8:DQ:156:ARG:O	8:DQ:159:VAL:HG22	2.13	0.49
8:EA:17:GLY:HA3	8:EA:67:PHE:HZ	1.77	0.49
8:EG:147:SER:OG	8:EG:190:THR:OG1	2.26	0.49
15:F:71:ILE:HB	15:F:270:VAL:HB	1.94	0.49
8:FO:93:ILE:HD11	8:FO:121:ARG:HG3	1.95	0.49
8:GC:223:THR:OG1	8:GC:224:TYR:N	2.44	0.49
8:GE:56:THR:OG1	8:GE:57:GLY:N	2.44	0.49
8:GG:105:ARG:HB3	8:GG:110:ILE:HD13	1.95	0.49
8:GG:113:GLU:HG2	49:y:138:LEU:HD13	1.94	0.49
9:GH:31:ASP:OD1	9:GH:35:THR:N	2.46	0.49
9:GJ:39:ASP:H	9:GJ:43:GLN:HE22	1.61	0.49
9:GJ:46:ARG:HG3	9:GJ:49:VAL:HG23	1.94	0.49
9:GJ:392:LYS:HE2	9:GJ:395:LEU:HB3	1.95	0.49
8:GK:388:TRP:HB3	8:GK:425:LEU:HD11	1.94	0.49
9:GL:131:GLN:HE21	9:GL:163:ILE:HD12	1.78	0.49
8:HA:191:THR:HA	8:HA:194:THR:HG22	1.93	0.49
9:HF:3:GLU:OE1	9:HF:3:GLU:N	2.45	0.49
9:HJ:12:CYS:SG	9:HJ:138:SER:HB3	2.52	0.49
9:HJ:344:TRP:CH2	8:HK:403:ALA:HB2	2.46	0.49
9:HJ:386:THR:HG23	9:HJ:390:ARG:HH21	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HP:6:HIS:NE2	9:HP:8:GLN:OE1	2.45	0.49
9:HP:363:MET:HE2	9:HP:363:MET:N	2.28	0.49
17:I:279:GLN:N	17:I:279:GLN:OE1	2.45	0.49
9:IB:327:ASP:OD1	9:IB:327:ASP:N	2.37	0.49
8:IG:80:THR:O	8:IG:84:ARG:NH2	2.39	0.49
8:IG:191:THR:HA	8:IG:194:THR:HG22	1.95	0.49
8:II:113:GLU:OE1	8:II:113:GLU:N	2.38	0.49
9:IL:318:ARG:NH1	9:IL:356:ILE:O	2.45	0.49
19:J4:245:ALA:C	8:LO:430:LYS:HD3	2.37	0.49
19:J5:136:ARG:HH12	9:KP:194:GLU:CB	2.25	0.49
8:JC:320:ARG:HD3	8:JC:360:PRO:HG3	1.94	0.49
8:JC:326:LYS:HZ3	9:JD:208:TYR:HB3	1.75	0.49
8:JE:207:GLU:HA	8:JE:210:TYR:HB2	1.95	0.49
8:JG:90:GLU:OE1	8:JG:121:ARG:NH1	2.46	0.49
8:JG:191:THR:HA	8:JG:194:THR:HG22	1.93	0.49
9:JH:402:GLY:CA	9:JH:403:MET:HE2	2.43	0.49
8:JO:8:HIS:HB2	8:JO:67:PHE:HD1	1.77	0.49
8:JO:212:ILE:HD11	8:JO:300:ASN:HA	1.95	0.49
9:JP:324:LYS:HD2	9:JP:324:LYS:N	2.28	0.49
9:KD:146:GLY:O	9:KD:149:THR:OG1	2.30	0.49
9:KD:284:LEU:HD21	9:KD:363:MET:H	1.77	0.49
9:KF:31:ASP:OD1	9:KF:35:THR:N	2.45	0.49
9:KJ:358:PRO:HG2	9:KJ:361:LEU:HD12	1.95	0.49
8:KM:90:GLU:OE1	8:KM:90:GLU:N	2.39	0.49
8:KM:306:ASP:OD1	8:KM:308:ARG:NH1	2.45	0.49
8:KM:320:ARG:HH21	8:KM:360:PRO:HA	1.77	0.49
8:KM:326:LYS:HE2	9:KN:212:PHE:CE1	2.47	0.49
9:KN:419:VAL:HA	9:KN:422:TYR:HB2	1.94	0.49
8:KO:370:LYS:NZ	8:KO:371:VAL:O	2.45	0.49
8:LA:312:TYR:HE2	8:LA:341:ILE:HD12	1.76	0.49
8:LA:339:ARG:HH11	41:b1:379:LYS:HG2	1.77	0.49
8:LG:191:THR:HG21	8:LG:388:TRP:HH2	1.78	0.49
9:LH:144:GLY:N	52:LH:502:GDP:O1B	2.37	0.49
8:LI:47:ASP:OD1	8:LI:47:ASP:N	2.44	0.49
8:LK:225:THR:O	8:LK:229:ARG:HG2	2.12	0.49
9:LL:342:VAL:HB	9:LL:344:TRP:CZ3	2.48	0.49
22:M1:170:ASP:OD1	22:M1:170:ASP:N	2.42	0.49
22:M3:183:ARG:HH21	25:V:226:PRO:HG2	1.78	0.49
8:ME:1:MET:HA	8:ME:1:MET:HE2	1.94	0.49
8:ME:51:THR:HG21	8:ME:243:ARG:HG2	1.95	0.49
9:MP:372:THR:HA	9:MP:422:TYR:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MP:392:LYS:HB2	9:MP:395:LEU:HD22	1.95	0.49
8:NA:6:SER:HB3	8:NA:8:HIS:NE2	2.28	0.49
8:NA:34:GLY:HA3	8:NA:60:LYS:HD3	1.94	0.49
9:NB:318:ARG:HB3	9:NB:364:SER:HB2	1.95	0.49
8:NG:274:PRO:HG3	8:NG:286:LEU:HD21	1.94	0.49
9:NJ:31:ASP:OD2	9:NJ:35:THR:OG1	2.30	0.49
8:NK:102:ASN:HB3	8:NK:105:ARG:HB2	1.95	0.49
8:NM:76:ASP:N	8:NM:79:ARG:HH21	2.10	0.49
9:NN:322:SER:O	8:NO:221:ARG:NH1	2.45	0.49
9:NN:322:SER:OG	8:NO:222:PRO:O	2.25	0.49
24:O3:62:PHE:N	24:O3:67:TYR:OH	2.38	0.49
17:O9:165:ALA:O	40:a2:77:TRP:NE1	2.46	0.49
8:OC:298:PRO:HA	8:OC:301:GLN:HG2	1.95	0.49
9:OF:384:GLN:NE2	9:OF:388:MET:SD	2.85	0.49
8:OG:90:GLU:HG3	8:OG:121:ARG:NH1	2.28	0.49
9:OH:274:THR:HB	9:OH:278:SER:HB2	1.94	0.49
9:OL:55:THR:HB	9:PL:283:ALA:HA	1.94	0.49
9:OL:305:PRO:HA	9:OL:373:ALA:HB2	1.95	0.49
8:OM:33:ASP:HA	8:OM:85:GLN:HE21	1.78	0.49
27:P3:138:PRO:HD2	27:P3:148:LYS:CE	2.42	0.49
9:PB:323:MET:HE2	8:PC:224:TYR:CD2	2.48	0.49
9:PJ:26:ASP:O	9:PJ:359:ARG:NH1	2.45	0.49
9:PJ:217:LEU:HD21	9:PJ:276:ARG:HH12	1.77	0.49
9:PJ:228:LEU:HB3	9:PJ:300:MET:HE1	1.95	0.49
8:PK:191:THR:HA	8:PK:194:THR:HG22	1.95	0.49
8:PM:9:VAL:HA	8:PM:68:VAL:HG23	1.93	0.49
9:PN:69:GLU:HG2	9:PN:71:GLY:H	1.76	0.49
9:PP:388:MET:HG2	9:PP:393:ALA:HB3	1.93	0.49
9:QD:207:LEU:HA	9:QD:210:ILE:HG12	1.95	0.49
9:QF:285:THR:C	9:QF:363:MET:HE1	2.37	0.49
9:QH:180:VAL:O	9:QH:184:ASN:ND2	2.45	0.49
9:QJ:156:ARG:NH1	9:QJ:197:ASP:OD1	2.41	0.49
8:QM:271:THR:HB	8:QM:377:MET:HB3	1.94	0.49
11:R2:131:ASP:N	11:R2:131:ASP:OD1	2.45	0.49
11:R4:30:ARG:HA	11:R4:30:ARG:CZ	2.42	0.49
8:RG:9:VAL:HB	8:RG:139:HIS:HB3	1.95	0.49
9:RJ:273:LEU:O	9:RJ:292:GLN:NE2	2.46	0.49
8:RO:49:PHE:HB2	8:RO:53:PHE:HD2	1.78	0.49
12:S0:86:ASN:ND2	12:S8:306:ASP:OD2	2.46	0.49
12:S6:267:ILE:HD12	12:S7:405:ARG:HD2	1.94	0.49
8:SA:83:TYR:HB3	8:SA:86:LEU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SC:292:THR:HG21	8:SC:331:ALA:HB1	1.94	0.49
8:SC:402:ARG:NH1	8:SC:415:GLU:OE2	2.42	0.49
8:SE:5:ILE:HD13	8:SE:64:ARG:HB3	1.94	0.49
9:SF:42:LEU:HG	9:SF:356:ILE:HD11	1.94	0.49
8:SK:260:VAL:HB	9:SL:397:TRP:HZ2	1.77	0.49
8:SK:311:LYS:H	8:SK:382:THR:HG22	1.78	0.49
9:TF:41:ASP:OD1	9:TF:42:LEU:N	2.45	0.49
8:TG:107:HIS:HA	8:TG:152:LEU:HD23	1.95	0.49
9:TH:130:LEU:HD12	9:TH:162:ARG:NH1	2.28	0.49
8:TI:7:ILE:HD11	8:TI:137:ILE:HB	1.94	0.49
30:U0:343:PHE:HB3	30:U0:470:MET:HE1	1.95	0.49
30:U1:191:ALA:HA	30:U1:194:CYS:HB2	1.94	0.49
30:U6:201:ARG:NH2	30:U6:461:THR:OG1	2.46	0.49
30:U7:269:ASN:HA	30:W0:323:HIS:HB3	1.94	0.49
8:UC:276:ILE:CG1	8:UC:280:LYS:HB3	2.42	0.49
9:UD:299:MET:HG3	9:UD:301:ALA:H	1.78	0.49
9:UF:14:ASN:ND2	9:UF:65:LEU:HD11	2.27	0.49
8:UG:132:LEU:O	8:UG:164:LYS:NZ	2.33	0.49
8:UG:311:LYS:HD3	8:UG:344:VAL:HG12	1.94	0.49
9:UH:65:LEU:HD13	9:UH:90:PHE:HD1	1.77	0.49
9:UH:309:ARG:HG3	9:UH:426:GLN:HG3	1.94	0.49
9:UH:313:VAL:HB	9:UH:349:VAL:HG22	1.95	0.49
8:UI:287:SER:O	8:UI:291:ILE:HG12	2.13	0.49
8:UI:311:LYS:H	8:UI:382:THR:HG22	1.77	0.49
9:UN:267:MET:HE3	9:UN:268:PRO:O	2.13	0.49
30:V0:389:LEU:HB2	30:V0:423:ILE:HG21	1.94	0.49
30:V0:407:LEU:CD2	30:V1:289:THR:HA	2.43	0.49
30:V6:289:THR:HG21	30:V7:409:ARG:HG3	1.93	0.49
8:VA:7:ILE:HD13	8:VA:135:PHE:HB3	1.95	0.49
8:VE:324:VAL:HG12	8:VE:326:LYS:HG2	1.94	0.49
9:VH:285:THR:HB	9:VH:287:PRO:HD2	1.94	0.49
9:VJ:226:ASN:O	9:VJ:230:SER:N	2.44	0.49
8:VO:151:SER:HA	8:VO:193:THR:HG21	1.93	0.49
31:W:435:ARG:H	31:W:529:THR:HG21	1.77	0.49
30:W0:235:ARG:HH11	30:W0:238:PHE:HE2	1.61	0.49
8:WC:70:LEU:HB3	8:WC:98:ASP:HA	1.94	0.49
8:WC:272:TYR:H	8:WC:302:MET:HE3	1.77	0.49
8:WE:90:GLU:OE2	8:WE:121:ARG:NH1	2.46	0.49
9:WN:50:TYR:HH	9:WN:237:THR:HG1	1.48	0.49
8:WO:250:VAL:HG13	8:WO:254:GLU:HB2	1.95	0.49
33:X4:126:LYS:O	33:X4:130:LYS:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X4:362:TRP:CZ2	31:Y:73:ALA:HB1	2.48	0.49
34:X6:115:LEU:HD23	34:X6:205:MET:HE2	1.94	0.49
35:XA:164:ARG:NH2	35:XA:180:GLU:O	2.46	0.49
35:XE:64:ASP:HB3	35:XE:67:LYS:HG3	1.93	0.49
37:YC:158:HIS:O	37:YC:162:SER:OG	2.29	0.49
37:YE:31:MET:HA	37:YE:31:MET:HE3	1.95	0.49
31:Z:235:LEU:HD22	31:Z:378:CYS:HB3	1.93	0.49
39:a:181:ASP:O	39:a:185:MET:HB2	2.12	0.49
39:a6:111:ARG:HH11	39:a6:114:TRP:NE1	2.11	0.49
41:b4:352:MET:O	41:b4:356:LEU:HG	2.13	0.49
39:d:505:GLU:O	39:d:509:LYS:HG2	2.13	0.49
42:e:571:VAL:H	42:e:579:VAL:HG13	1.76	0.49
43:i:251:TYR:HD1	47:o:41:ILE:HD13	1.77	0.49
47:p:235:GLU:HA	47:p:238:LYS:HD3	1.94	0.49
47:p:539:SER:HA	47:p:542:ARG:HB3	1.95	0.49
2:1:391:GLN:HE22	8:IA:277:SER:HB2	1.77	0.49
3:3:39:ARG:NH1	3:3:43:SER:HB3	2.25	0.49
3:3:45:HIS:HA	3:3:48:HIS:CD2	2.47	0.49
4:5:293:PHE:HE1	4:5:390:PHE:HE2	1.60	0.49
7:A1:84:LEU:HA	7:A1:232:LEU:HD21	1.93	0.49
7:A2:50:LYS:HB3	7:A2:54:LYS:HZ1	1.77	0.49
7:A2:207:ILE:HD13	33:X4:133:PHE:HE2	1.78	0.49
7:A3:69:GLU:HA	11:B3:270:ARG:NH2	2.28	0.49
9:AB:326:VAL:O	9:AB:330:MET:HG2	2.12	0.49
8:AC:108:TYR:HA	8:AC:112:LYS:HE3	1.95	0.49
9:AD:69:GLU:HG2	9:AD:71:GLY:H	1.76	0.49
8:AG:326:LYS:NZ	9:AH:218:THR:O	2.31	0.49
9:AJ:8:GLN:HG2	9:AJ:14:ASN:HA	1.95	0.49
8:AK:186:ASN:O	8:AK:190:THR:OG1	2.28	0.49
8:AM:118:VAL:O	8:AM:122:ILE:HG13	2.13	0.49
9:AP:344:TRP:H	9:AP:344:TRP:CD1	2.29	0.49
9:BB:313:VAL:HB	9:BB:349:VAL:HG22	1.95	0.49
8:BC:167:LEU:HD13	8:BC:200:CYS:HB3	1.95	0.49
8:BG:50:ASN:O	8:BG:64:ARG:NH1	2.46	0.49
8:BG:387:ALA:O	8:BG:390:ARG:HG2	2.12	0.49
8:BK:139:HIS:O	8:BK:170:ALA:HA	2.13	0.49
8:BM:151:SER:HA	8:BM:193:THR:HG21	1.95	0.49
8:CG:200:CYS:HA	8:CG:266:HIS:HB2	1.95	0.49
8:CI:84:ARG:HH21	40:a2:12:PRO:HG2	1.77	0.49
8:CI:101:ASN:HD21	8:CI:180:ALA:HB1	1.78	0.49
8:CK:79:ARG:NH2	8:CK:94:THR:HG23	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CO:315:CYS:SG	8:CO:317:MET:HE1	2.53	0.49
8:CO:364:PRO:HG2	40:a4:94:LYS:NZ	2.28	0.49
9:CP:164:MET:SD	9:CP:196:THR:HA	2.52	0.49
8:DG:116:ASP:N	8:DG:116:ASP:OD1	2.41	0.49
9:DL:344:TRP:H	9:DL:344:TRP:CD1	2.30	0.49
8:EC:49:PHE:HE2	8:EC:55:GLU:HG3	1.77	0.49
8:EC:220:GLU:OE2	8:EC:221:ARG:NH1	2.46	0.49
9:ED:1:MET:HE1	8:EE:96:LYS:HA	1.94	0.49
9:EH:334:GLN:OE1	9:EH:348:ASN:N	2.46	0.49
8:EK:384:ILE:HG12	8:EK:388:TRP:HE1	1.77	0.49
9:EN:252:LYS:HA	8:EO:100:ALA:HB1	1.94	0.49
8:EO:328:VAL:HG21	8:EO:355:ILE:HD11	1.94	0.49
15:F:103:GLN:HG2	6:N1:51:MET:HE3	1.93	0.49
9:FB:295:ASP:OD1	9:FB:296:ALA:N	2.46	0.49
9:FF:309:ARG:NH2	9:FF:339:SER:O	2.46	0.49
8:FG:242:LEU:HD21	8:FG:251:ASP:HA	1.95	0.49
8:FG:259:LEU:HD11	8:FG:268:PRO:HG3	1.93	0.49
8:FG:339:ARG:HD3	8:FG:339:ARG:C	2.37	0.49
9:FH:52:ASN:OD1	9:FH:62:ARG:NH1	2.46	0.49
9:FH:101:TRP:HB2	9:FH:184:ASN:HD22	1.77	0.49
8:FI:268:PRO:HA	8:FI:380:ASN:HA	1.95	0.49
8:GA:338:LYS:HE3	36:Y3:68:PRO:HD2	1.94	0.49
8:GC:295:CYS:HB3	8:GC:377:MET:HG3	1.95	0.49
8:GI:60:LYS:HE2	8:HI:282:TYR:OH	2.13	0.49
9:GJ:267:MET:HE1	9:GJ:367:PHE:HE2	1.77	0.49
8:GK:102:ASN:HB3	8:GK:105:ARG:HB2	1.94	0.49
8:GM:53:PHE:O	8:GM:64:ARG:NH1	2.46	0.49
8:HA:287:SER:N	8:HA:290:GLU:OE1	2.45	0.49
8:HC:239:THR:O	8:HC:242:LEU:HG	2.13	0.49
9:HF:239:CYS:HB2	9:HF:248:ALA:H	1.77	0.49
8:HI:108:TYR:HB2	8:HI:411:GLU:OE2	2.13	0.49
8:HI:280:LYS:HB3	8:HI:284:GLU:OE2	2.12	0.49
9:HL:346:PRO:HD3	8:HM:397:LEU:HD11	1.95	0.49
8:HM:111:GLY:O	8:HM:115:VAL:HG13	2.12	0.49
9:HP:210:ILE:HG12	9:HP:300:MET:HE1	1.94	0.49
17:I:282:ILE:HD12	17:I:283:PRO:HD2	1.95	0.49
8:IC:393:HIS:CE1	8:IC:397:LEU:HD21	2.48	0.49
9:IH:255:VAL:HG23	8:II:407:TRP:CD2	2.48	0.49
9:IH:359:ARG:HD2	9:IH:360:GLY:N	2.28	0.49
8:II:326:LYS:HZ3	9:IJ:220:PRO:C	2.20	0.49
9:IN:316:VAL:HG23	9:IN:352:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IO:137:ILE:HG13	8:IO:168:GLU:OE1	2.13	0.49
9:IP:306:ARG:HH21	9:IP:340:TYR:HE2	1.59	0.49
19:J4:33:ARG:H	19:J4:33:ARG:CD	2.18	0.49
8:JC:91:GLN:HA	8:JC:121:ARG:HD3	1.95	0.49
8:JC:385:ALA:HA	8:JC:388:TRP:CD1	2.48	0.49
8:JI:107:HIS:HA	8:JI:152:LEU:HD11	1.94	0.49
9:JP:195:ASN:OD1	9:JP:195:ASN:N	2.46	0.49
9:JP:198:GLU:HB2	9:JP:266:PHE:HE2	1.77	0.49
9:JP:341:PHE:HB3	9:JP:348:ASN:HD21	1.78	0.49
8:KC:51:THR:HG21	8:KC:243:ARG:HG2	1.95	0.49
8:KE:296:PHE:CZ	8:KE:377:MET:HE1	2.48	0.49
8:KE:338:LYS:HD3	8:KE:339:ARG:N	2.27	0.49
9:KF:174:LYS:HD2	9:KF:175:VAL:HG23	1.93	0.49
8:KG:252:LEU:HD22	8:KG:255:PHE:HE2	1.77	0.49
8:KK:105:ARG:HH21	8:KK:110:ILE:HD11	1.78	0.49
9:KL:146:GLY:O	9:KL:149:THR:OG1	2.29	0.49
9:KL:163:ILE:HD11	9:KL:251:ARG:HG3	1.95	0.49
9:KN:271:ALA:HB1	9:KN:289:LEU:HD22	1.94	0.49
9:KN:324:LYS:HB2	8:KO:210:TYR:HE1	1.78	0.49
9:LB:171:PRO:HG3	9:LB:181:GLU:OE2	2.13	0.49
8:LC:398:MET:HE3	8:LC:404:PHE:HD2	1.78	0.49
8:LE:279:GLU:H	8:LE:279:GLU:CD	2.20	0.49
9:LH:309:ARG:HG3	9:LH:426:GLN:HG3	1.94	0.49
8:LI:416:GLY:O	8:LI:420:GLU:HB2	2.12	0.49
9:MB:309:ARG:HG3	9:MB:426:GLN:HG3	1.95	0.49
8:MC:311:LYS:H	8:MC:382:THR:HG22	1.77	0.49
8:ME:35:GLN:HB3	25:U:85:PHE:HE2	1.78	0.49
9:MP:73:MET:HE3	31:Z:26:TRP:CG	2.48	0.49
9:NB:377:LEU:HA	9:NB:380:ARG:HE	1.78	0.49
9:NB:415:MET:HA	9:NB:418:LEU:HB3	1.95	0.49
8:NE:60:LYS:NZ	8:NE:85:GLN:O	2.44	0.49
9:NF:83:GLN:O	9:OF:281:TYR:OH	2.25	0.49
9:NH:111:GLU:OE1	9:NH:111:GLU:N	2.46	0.49
9:NJ:8:GLN:HE21	9:NJ:14:ASN:HA	1.78	0.49
9:NJ:313:VAL:HG23	9:NJ:367:PHE:HE1	1.76	0.49
8:NK:330:ALA:O	8:NK:334:THR:HG23	2.12	0.49
8:NM:115:VAL:HG22	8:NM:152:LEU:HD13	1.94	0.49
9:NN:7:LEU:N	9:NN:134:GLN:O	2.46	0.49
9:OB:7:LEU:HG	9:OB:135:LEU:HD13	1.94	0.49
8:OC:191:THR:HG21	8:OC:425:LEU:HD11	1.94	0.49
9:OD:233:MET:O	9:OD:236:VAL:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OF:274:THR:OG1	9:OF:282:ARG:NH1	2.44	0.49
9:OJ:403:MET:HE3	9:OJ:407:GLU:HB3	1.94	0.49
8:OM:191:THR:HG21	8:OM:425:LEU:HD11	1.95	0.49
8:OM:254:GLU:OE1	8:OM:254:GLU:N	2.44	0.49
8:OO:6:SER:O	8:OO:65:ALA:HA	2.13	0.49
8:OO:338:LYS:HZ2	36:Y5:181:GLY:H	1.60	0.49
9:OP:31:ASP:OD1	9:OP:35:THR:N	2.46	0.49
9:OP:311:LEU:N	9:OP:370:ASN:O	2.45	0.49
27:P6:22:MET:HE2	40:a3:7:PHE:HD2	1.77	0.49
27:P6:163:ARG:HH12	30:U3:316:ARG:HG2	1.77	0.49
9:PB:189:VAL:HA	9:PB:192:LEU:HD23	1.94	0.49
9:PD:288:GLU:OE1	9:PD:288:GLU:N	2.36	0.49
9:PD:322:SER:OG	8:PE:222:PRO:O	2.18	0.49
8:PE:14:VAL:HA	8:PE:67:PHE:HD2	1.77	0.49
9:PF:182:PRO:HB3	9:PF:381:ILE:HG23	1.94	0.49
8:PG:303:VAL:HG11	8:PG:384:ILE:CD1	2.43	0.49
9:PH:271:ALA:HB1	9:PH:289:LEU:HD22	1.94	0.49
8:PI:60:LYS:HD3	8:QI:282:TYR:CE2	2.48	0.49
8:PI:88:HIS:HD2	8:QI:283:HIS:HB2	1.77	0.49
8:PI:238:ILE:HD11	8:PI:378:LEU:HD21	1.95	0.49
9:PN:106:TYR:CD2	9:PN:403:MET:HE3	2.48	0.49
8:PO:216:ASN:ND2	8:PO:275:VAL:O	2.46	0.49
9:PP:279:GLN:HA	9:PP:282:ARG:HG2	1.93	0.49
8:QG:316:CYS:HB3	8:QG:378:LEU:HB2	1.94	0.49
8:QK:150:ALA:O	8:QK:154:MET:HG3	2.12	0.49
9:QL:289:LEU:O	9:QL:293:MET:HG2	2.12	0.49
8:QM:168:GLU:HG2	8:QM:201:ALA:HA	1.94	0.49
8:QO:132:LEU:O	8:QO:164:LYS:NZ	2.44	0.49
9:RF:320:ARG:N	9:RF:363:MET:HE1	2.27	0.49
9:RH:362:LYS:HG3	9:RH:363:MET:HG2	1.93	0.49
8:RI:195:LEU:HD13	8:RI:428:LEU:HD11	1.95	0.49
12:S2:159:GLU:OE2	12:S2:308:VAL:HG11	2.13	0.49
12:S2:202:ARG:HH21	12:S2:216:GLU:HB2	1.78	0.49
12:S3:141:HIS:O	12:S4:419:ARG:NH1	2.45	0.49
12:S3:156:TRP:O	12:S3:160:ILE:HD12	2.11	0.49
12:S9:401:ASP:O	12:S9:404:THR:OG1	2.28	0.49
8:SI:319:TYR:CD2	8:SI:355:ILE:HG12	2.47	0.49
9:SJ:147:MET:HE2	9:SJ:151:LEU:HD21	1.95	0.49
8:SK:318:LEU:HB2	8:SK:376:CYS:HB3	1.93	0.49
9:SL:207:LEU:HD12	9:SL:225:LEU:HD23	1.93	0.49
9:SL:258:VAL:HB	8:SM:407:TRP:HZ2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:T:245:PHE:HD2	25:T:344:ILE:HD13	1.77	0.49
8:TA:7:ILE:HD13	8:TA:137:ILE:HG23	1.95	0.49
8:TA:169:PHE:HE2	8:TA:235:VAL:HG22	1.77	0.49
8:TA:311:LYS:H	8:TA:382:THR:HG22	1.78	0.49
9:TF:309:ARG:HG3	9:TF:426:GLN:HG3	1.95	0.49
9:TH:226:ASN:HA	9:TH:229:VAL:HG22	1.93	0.49
9:TH:271:ALA:HA	9:TH:292:GLN:NE2	2.27	0.49
9:TH:358:PRO:HG2	9:TH:361:LEU:HB2	1.95	0.49
9:TN:31:ASP:OD1	9:TN:35:THR:N	2.45	0.49
9:TN:207:LEU:HD22	9:TN:228:LEU:HD12	1.94	0.49
8:UA:216:ASN:HD22	8:UA:275:VAL:HG23	1.78	0.49
8:UC:36:MET:HE3	8:UC:61:HIS:CE1	2.48	0.49
8:UC:183:GLU:HA	8:UC:186:ASN:HD22	1.78	0.49
8:UC:372:GLN:N	8:UC:372:GLN:OE1	2.45	0.49
8:UM:49:PHE:HB2	8:UM:53:PHE:HD2	1.77	0.49
9:UN:267:MET:CE	9:UN:299:MET:HG2	2.41	0.49
25:V:249:TRP:CZ2	25:V:340:ARG:HG2	2.48	0.49
30:V1:346:ARG:NH1	30:V1:349:GLU:OE1	2.45	0.49
30:V2:393:GLN:OE1	30:V2:393:GLN:N	2.45	0.49
9:VD:34:GLY:HA3	9:VD:58:LYS:HE2	1.95	0.49
8:VE:6:SER:HB2	8:VE:65:ALA:HA	1.95	0.49
8:VE:94:THR:OG1	48:q:159:ARG:NH2	2.37	0.49
9:VJ:270:PHE:CE2	9:VJ:272:PRO:HD2	2.47	0.49
8:VK:49:PHE:CD1	8:VK:53:PHE:HB2	2.47	0.49
8:VK:286:LEU:O	8:VK:373:ARG:NH1	2.46	0.49
8:VM:298:PRO:HA	8:VM:301:GLN:HG2	1.95	0.49
9:VN:362:LYS:HG3	39:b:340:VAL:HG13	1.95	0.49
30:W0:361:LEU:HA	30:W0:364:ILE:HG22	1.93	0.49
30:W7:152:TRP:O	30:W7:156:LEU:HG	2.12	0.49
8:WC:286:LEU:O	8:WC:373:ARG:NH1	2.45	0.49
9:WD:86:ARG:HD3	9:WD:88:ASP:HB3	1.95	0.49
9:WD:136:THR:HG22	9:WD:167:PHE:HB2	1.95	0.49
8:WE:151:SER:HA	8:WE:193:THR:HG21	1.94	0.49
9:WF:1:MET:HE1	9:WF:2:ARG:HH21	1.76	0.49
9:WF:325:GLU:N	8:WG:221:ARG:HH22	2.02	0.49
8:WG:26:LEU:HD11	8:WG:363:VAL:HA	1.95	0.49
8:WG:132:LEU:O	8:WG:164:LYS:NZ	2.31	0.49
35:XA:102:ARG:HH21	35:XA:118:ILE:HB	1.77	0.49
35:XF:75:PHE:CG	35:XF:171:LEU:HG	2.48	0.49
35:XH:121:MET:N	35:XH:121:MET:SD	2.86	0.49
36:Y1:34:PRO:HD3	36:Y1:40:LYS:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Y5:186:ARG:HG3	36:Y5:188:THR:H	1.78	0.49
39:a:114:TRP:CH2	43:j:192:GLU:HG2	2.47	0.49
39:a:207:ARG:NH1	39:a:208:ASP:OD1	2.45	0.49
39:c:194:MET:HG2	39:d:522:LEU:HD11	1.95	0.49
39:c:197:ILE:HD13	39:d:541:LYS:HB3	1.94	0.49
42:e:484:THR:HG22	42:e:500:LEU:HD12	1.94	0.49
42:f:170:ARG:HE	42:f:172:GLU:HB2	1.77	0.49
42:f:375:MET:HG2	48:r:135:LYS:NZ	2.27	0.49
44:h3:45:PHE:HB3	44:h3:93:SER:HB2	1.95	0.49
47:o:224:GLU:CD	47:o:228:LYS:HD3	2.38	0.49
49:y:59:TYR:HB2	49:y:106:LYS:NZ	2.28	0.49
2:2:487:TRP:NE1	2:2:489:HIS:HB3	2.27	0.49
7:A0:309:PRO:HG3	7:A1:193:ASN:HD21	1.78	0.49
8:AA:6:SER:O	8:AA:66:VAL:N	2.44	0.49
9:AB:257:MET:HE1	9:AB:350:LYS:HB3	1.94	0.49
9:AB:362:LYS:NZ	33:X4:79:ILE:HG13	2.28	0.49
8:AG:201:ALA:O	8:AG:268:PRO:HD2	2.12	0.49
8:AI:47:ASP:O	8:AI:50:ASN:CB	2.61	0.49
8:AI:286:LEU:O	8:AI:373:ARG:NH1	2.43	0.49
9:AJ:403:MET:HE3	9:AJ:407:GLU:OE1	2.13	0.49
8:AK:87:PHE:HB3	8:AK:92:LEU:HD11	1.95	0.49
9:AN:358:PRO:HG2	9:AN:361:LEU:HB3	1.95	0.49
11:B4:36:HIS:CE1	11:B4:40:GLN:HE21	2.31	0.49
11:B5:280:LYS:HD2	11:B5:377:ILE:HD13	1.95	0.49
8:BC:133:GLN:HB3	8:BC:252:LEU:HD13	1.93	0.49
8:BE:79:ARG:HB3	17:I:282:ILE:HG21	1.94	0.49
9:BF:278:SER:HA	9:BF:281:TYR:HD1	1.77	0.49
9:BL:232:THR:HG21	9:BL:268:PRO:HB2	1.94	0.49
8:BO:326:LYS:HE3	9:BP:220:PRO:CD	2.42	0.49
10:C:388:ARG:HH21	10:C:389:ILE:HD13	1.77	0.49
12:C0:270:LYS:NZ	12:C1:402:GLU:HG3	2.28	0.49
12:C4:240:ALA:HA	12:C4:321:LEU:HD21	1.94	0.49
8:CC:7:ILE:HD11	8:CC:122:ILE:CD1	2.42	0.49
8:CC:201:ALA:O	8:CC:268:PRO:HD2	2.12	0.49
8:CM:227:LEU:HD12	8:CM:227:LEU:H	1.78	0.49
9:CN:170:VAL:HG11	9:CN:377:LEU:HD21	1.94	0.49
9:CP:218:THR:HG22	9:CP:219:THR:HG23	1.94	0.49
14:D3:230:ARG:HH22	8:LK:40:LYS:H	1.60	0.49
8:DI:288:VAL:O	8:DI:292:THR:HG22	2.13	0.49
8:DO:183:GLU:HA	8:DO:186:ASN:HD22	1.78	0.49
9:EF:236:VAL:HG13	9:EF:237:THR:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EH:276:ARG:NE	25:V:385:ASN:OD1	2.44	0.49
8:EK:338:LYS:HE2	8:EK:340:THR:HB	1.94	0.49
8:EM:348:PRO:HD2	9:EN:388:MET:HE1	1.95	0.49
9:FB:311:LEU:HD23	9:FB:312:THR:HG23	1.93	0.49
8:FK:276:ILE:HD11	8:FK:286:LEU:HD11	1.94	0.49
8:GA:346:TRP:HZ2	8:GA:435:VAL:HG13	1.77	0.49
8:GG:102:ASN:H	8:GG:144:GLY:HA3	1.78	0.49
8:GK:172:TYR:HB2	8:GK:203:MET:HB2	1.94	0.49
8:GM:132:LEU:HG	8:GM:164:LYS:NZ	2.28	0.49
8:GO:317:MET:HB2	8:GO:353:VAL:HG22	1.94	0.49
8:HA:252:LEU:HA	8:HA:255:PHE:CZ	2.48	0.49
8:HC:75:VAL:HG13	8:HC:92:LEU:HD23	1.95	0.49
8:HE:217:LEU:HD21	8:HE:275:VAL:HB	1.94	0.49
9:HH:257:MET:HE3	9:HH:314:ALA:HB2	1.95	0.49
8:HK:392:ASP:O	8:HK:422:ARG:NH2	2.46	0.49
8:HM:63:PRO:HG2	8:HM:87:PHE:CD1	2.47	0.49
8:HO:227:LEU:O	8:HO:231:ILE:HG12	2.13	0.49
9:HP:406:MET:N	9:HP:406:MET:SD	2.85	0.49
8:IA:250:VAL:HG13	8:IA:254:GLU:HB2	1.95	0.49
8:IC:133:GLN:HB3	8:IC:252:LEU:HD21	1.94	0.49
8:IE:88:HIS:CD2	8:IE:90:GLU:HG2	2.48	0.49
9:IF:64:VAL:HA	9:IF:89:ASN:HB3	1.94	0.49
8:IG:105:ARG:O	8:IG:110:ILE:HG22	2.13	0.49
8:IG:119:LEU:O	8:IG:122:ILE:HG22	2.13	0.49
8:II:367:ASP:OD1	8:II:367:ASP:N	2.43	0.49
8:IK:417:GLU:HA	8:IK:420:GLU:HB2	1.93	0.49
9:IL:296:ALA:HA	9:IL:299:MET:SD	2.53	0.49
9:IL:318:ARG:HH21	9:IL:358:PRO:HA	1.78	0.49
8:IM:3:GLU:HB2	8:IM:132:LEU:HD23	1.94	0.49
8:IO:199:ASP:HB3	8:IO:256:GLN:HE21	1.78	0.49
8:IO:209:ILE:HA	8:IO:212:ILE:HG12	1.94	0.49
19:J4:137:GLU:OE1	19:J4:137:GLU:N	2.41	0.49
9:JB:256:ASN:ND2	8:JC:182:VAL:HG12	2.24	0.49
8:JC:153:LEU:O	8:JC:157:LEU:HB2	2.12	0.49
9:JJ:101:TRP:HZ3	9:JJ:403:MET:HE1	1.76	0.49
9:JL:276:ARG:NE	13:K3:300:GLY:O	2.46	0.49
8:JO:311:LYS:HZ3	8:JO:342:GLN:HB3	1.77	0.49
9:JP:324:LYS:O	9:JP:328:GLU:N	2.37	0.49
8:JQ:286:LEU:O	8:JQ:373:ARG:NH1	2.45	0.49
8:KK:176:GLN:HG2	8:KK:177:VAL:H	1.77	0.49
8:LA:210:TYR:HB3	8:LA:214:ARG:HH12	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LB:257:MET:HE1	9:LB:368:ILE:HG22	1.95	0.49
8:LC:203:MET:HE1	8:LC:267:PHE:HB3	1.94	0.49
9:LD:331:LEU:HD21	8:LE:176:GLN:HG3	1.93	0.49
9:LH:309:ARG:NH2	9:LH:339:SER:O	2.46	0.49
8:MA:286:LEU:O	8:MA:373:ARG:NH1	2.45	0.49
9:MF:203:ASP:OD1	9:MF:204:ASN:N	2.46	0.49
8:MK:287:SER:OG	8:MK:290:GLU:OE1	2.29	0.49
9:MN:35:THR:OG1	9:MN:36:TYR:N	2.46	0.49
8:MO:2:ARG:HD2	8:MO:242:LEU:HG	1.94	0.49
6:N1:11:GLU:OE2	6:N1:15:ARG:NH2	2.46	0.49
8:NE:220:GLU:HG2	8:NE:221:ARG:HG2	1.93	0.49
9:NF:322:SER:OG	9:NF:323:MET:N	2.45	0.49
8:NG:111:GLY:O	8:NG:115:VAL:HG23	2.13	0.49
8:NI:258:ASN:O	8:NI:259:LEU:HB2	2.12	0.49
9:NN:202:ILE:HD11	9:NN:300:MET:SD	2.52	0.49
9:NP:60:VAL:HG21	9:NP:86:ARG:HH21	1.78	0.49
9:NP:372:THR:HA	9:NP:422:TYR:HE1	1.78	0.49
24:O2:158:LYS:HZ1	30:W5:45:TYR:HB2	1.76	0.49
25:O5:165:TRP:HA	25:O5:168:LEU:HD23	1.95	0.49
9:OD:164:MET:SD	9:OD:196:THR:HA	2.52	0.49
8:OG:132:LEU:O	8:OG:164:LYS:NZ	2.32	0.49
9:OH:211:CYS:HB3	9:OH:220:PRO:HG3	1.94	0.49
9:OH:226:ASN:OD1	52:OH:502:GDP:N1	2.43	0.49
9:OJ:325:GLU:O	9:OJ:329:GLN:HG3	2.12	0.49
9:OJ:407:GLU:HA	9:OJ:410:GLU:HG2	1.95	0.49
9:OL:69:GLU:HG2	9:OL:71:GLY:H	1.76	0.49
8:OM:292:THR:HG21	8:OM:331:ALA:HB1	1.95	0.49
27:P3:160:HIS:ND1	27:P3:160:HIS:O	2.46	0.49
27:P7:179:TYR:CD2	11:R4:379:CYS:HA	2.48	0.49
9:PD:8:GLN:HE21	9:PD:14:ASN:HA	1.77	0.49
9:PH:198:GLU:HA	9:PH:264:HIS:HB2	1.95	0.49
8:PI:132:LEU:O	8:PI:164:LYS:NZ	2.39	0.49
9:PJ:385:PHE:HZ	9:PJ:408:PHE:HB3	1.77	0.49
8:PO:88:HIS:CD2	8:PO:90:GLU:HB3	2.48	0.49
8:PO:209:ILE:HA	8:PO:212:ILE:HG12	1.94	0.49
9:QD:174:LYS:O	9:QD:174:LYS:NZ	2.44	0.49
9:QH:45:GLU:N	9:QH:45:GLU:OE1	2.46	0.49
8:QK:311:LYS:HE3	8:QK:344:VAL:HG12	1.95	0.49
29:R:52:LYS:O	29:R:56:ILE:HG12	2.13	0.49
11:R3:234:LYS:O	11:R3:238:GLU:HG2	2.12	0.49
11:R4:392:ASP:HB3	12:S9:341:ASN:ND2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RF:167:PHE:CZ	9:RF:233:MET:HB3	2.48	0.49
8:RG:313:MET:HG3	8:RG:344:VAL:HG11	1.94	0.49
9:RJ:7:LEU:HB2	9:RJ:135:LEU:HB3	1.94	0.49
8:RM:360:PRO:O	8:RM:370:LYS:NZ	2.43	0.49
12:S1:253:GLU:OE2	12:S1:307:ASN:ND2	2.45	0.49
12:S5:466:LEU:O	12:S5:470:GLN:HG2	2.11	0.49
8:SA:313:MET:H	8:SA:313:MET:HE3	1.78	0.49
8:SC:168:GLU:O	8:SC:202:PHE:N	2.45	0.49
8:SC:313:MET:SD	8:SC:380:ASN:HB3	2.53	0.49
8:SE:263:PRO:HG3	9:SF:396:HIS:CD2	2.48	0.49
14:T4:71:ARG:NH2	14:T5:324:LYS:HB3	2.28	0.49
9:TL:292:GLN:HE21	9:TL:298:ASN:HD22	1.61	0.49
25:U:369:VAL:HG22	40:a2:158:VAL:O	2.13	0.49
30:U0:208:HIS:ND1	30:U1:89:ARG:HG2	2.28	0.49
30:U1:339:THR:HB	30:U1:473:ARG:NH2	2.27	0.49
30:U1:419:GLU:OE2	30:U2:134:MET:HE3	2.13	0.49
30:U8:79:LEU:HB2	30:U8:82:LEU:HB2	1.95	0.49
9:UF:54:ALA:HA	9:VF:283:ALA:HB2	1.94	0.49
9:UH:101:TRP:HB2	9:UH:184:ASN:HB3	1.94	0.49
8:UI:245:ASP:HA	8:UI:249:ASN:HD21	1.77	0.49
9:UN:257:MET:HE3	9:UN:257:MET:HA	1.95	0.49
8:UO:90:GLU:OE2	8:UO:121:ARG:NH1	2.45	0.49
8:UO:338:LYS:HE2	8:UO:340:THR:HB	1.94	0.49
30:V2:395:MET:O	30:V2:399:ARG:HG2	2.13	0.49
30:V6:138:THR:HG23	30:V7:415:ARG:HH12	1.78	0.49
30:V7:366:GLN:HE21	30:W0:390:LYS:HD2	1.76	0.49
8:VA:394:LYS:O	8:VA:398:MET:HG2	2.13	0.49
8:VC:132:LEU:O	8:VC:164:LYS:NZ	2.39	0.49
9:VL:149:THR:HB	9:VL:191:GLN:HG2	1.94	0.49
30:W4:310:MET:HA	30:W4:310:MET:HE3	1.94	0.49
8:WA:29:GLY:HA3	8:WA:36:MET:HE1	1.94	0.49
8:WE:217:LEU:HD21	8:WE:367:ASP:HB2	1.94	0.49
8:WG:320:ARG:HD3	8:WG:360:PRO:HG3	1.95	0.49
9:WJ:212:PHE:HD2	9:WJ:213:ARG:HH12	1.61	0.49
8:WK:222:PRO:HB3	8:WK:226:ASN:HD21	1.77	0.49
8:WO:107:HIS:HA	8:WO:152:LEU:HD23	1.94	0.49
9:WP:167:PHE:HB3	9:WP:202:ILE:HD11	1.95	0.49
33:X5:104:PRO:HG2	31:Z:73:ALA:HB1	1.94	0.49
35:XG:39:ASP:HB2	35:XG:161:ARG:HH21	1.78	0.49
31:Y:662:CYS:SG	31:Y:663:LYS:N	2.86	0.49
17:Z4:225:VAL:HG21	17:Z4:240:VAL:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:a:194:MET:SD	39:b:521:LYS:HE2	2.53	0.49
41:b2:151:LEU:HD12	41:b2:227:LEU:HB3	1.95	0.49
41:b2:181:LEU:HD11	41:b2:481:VAL:HG21	1.95	0.49
41:b2:311:LEU:HA	41:b2:314:MET:CE	2.43	0.49
42:g:433:ILE:HG22	42:g:467:ILE:HD13	1.95	0.49
43:i:223:LYS:O	43:i:227:LYS:HE2	2.13	0.49
45:i1:90:ASP:N	45:i1:90:ASP:OD2	2.42	0.49
47:p:419:THR:HA	47:p:422:LYS:HD2	1.93	0.49
7:A4:194:ASN:ND2	11:R3:412:THR:O	2.41	0.49
9:AD:170:VAL:HG11	9:AD:377:LEU:HD21	1.95	0.49
8:AE:22:GLU:HG2	33:X4:183:TYR:CE2	2.47	0.49
8:AG:68:VAL:HG12	8:AG:93:ILE:HB	1.95	0.49
8:AK:88:HIS:NE2	8:BK:283:HIS:HB2	2.27	0.49
8:AM:311:LYS:HD3	8:AM:342:GLN:HB3	1.93	0.49
8:AO:111:GLY:O	8:AO:115:VAL:HG23	2.13	0.49
8:AO:217:LEU:HD21	8:AO:275:VAL:HG22	1.95	0.49
10:B:227:ASP:OD2	9:HD:276:ARG:NH2	2.46	0.49
11:B1:270:ARG:NH1	11:B1:270:ARG:O	2.46	0.49
11:B2:153:GLU:OE2	11:B2:157:GLN:NE2	2.43	0.49
11:B5:122:SER:O	11:B5:124:ARG:NH1	2.46	0.49
9:BD:318:ARG:HD3	9:BD:358:PRO:HD3	1.95	0.49
8:BE:242:LEU:O	22:M2:199:ARG:NH1	2.44	0.49
9:BH:21:TRP:O	9:BH:25:SER:OG	2.23	0.49
9:BJ:149:THR:HA	9:BJ:152:ILE:HG22	1.95	0.49
9:BJ:167:PHE:CE1	9:BJ:200:TYR:HE2	2.31	0.49
8:BK:269:LEU:HD21	8:BK:384:ILE:HD12	1.94	0.49
12:C1:361:ILE:HD13	12:C1:458:ASP:HB3	1.94	0.49
8:CC:385:ALA:HA	8:CC:388:TRP:CD1	2.47	0.49
9:CF:213:ARG:HH21	9:CF:297:LYS:HE2	1.78	0.49
9:CF:344:TRP:H	9:CF:344:TRP:CD1	2.30	0.49
8:CI:186:ASN:O	8:CI:190:THR:OG1	2.29	0.49
8:CK:186:ASN:OD1	8:CK:408:TYR:OH	2.28	0.49
8:CM:206:ASN:OD1	50:CM:501:GTP:N2	2.46	0.49
8:CO:427:ALA:HA	8:CO:430:LYS:HD2	1.95	0.49
14:D4:294:ARG:HG3	14:D4:440:VAL:HG22	1.95	0.49
9:DD:239:CYS:SG	9:DD:248:ALA:N	2.85	0.49
9:DD:323:MET:N	9:DD:323:MET:SD	2.86	0.49
9:DN:69:GLU:HG2	9:DN:71:GLY:H	1.76	0.49
9:DP:325:GLU:H	8:DQ:221:ARG:HH22	1.58	0.49
9:ED:178:THR:HG22	9:ED:180:VAL:H	1.78	0.49
8:EE:108:TYR:HA	8:EE:112:LYS:HE3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EG:252:LEU:HA	8:EG:255:PHE:CE2	2.48	0.49
8:EM:6:SER:HB3	8:EM:8:HIS:CD2	2.48	0.49
8:EM:108:TYR:HA	8:EM:112:LYS:HE3	1.94	0.49
8:EO:98:ASP:O	8:EO:105:ARG:NH1	2.46	0.49
8:EO:324:VAL:HG12	8:EO:326:LYS:H	1.77	0.49
8:FA:156:ARG:HA	8:FA:159:VAL:HG22	1.95	0.49
8:FA:286:LEU:HD21	8:FA:372:GLN:NE2	2.28	0.49
9:FD:406:MET:HE3	9:FD:409:THR:OG1	2.13	0.49
8:FK:20:CYS:SG	8:FK:21:TRP:N	2.86	0.49
8:FK:175:PRO:O	8:FK:394:LYS:NZ	2.43	0.49
9:FN:24:ILE:HD12	9:FN:50:TYR:CD1	2.48	0.49
16:G:102:SER:OG	16:G:103:LEU:N	2.45	0.49
9:GB:330:MET:HB2	9:GB:349:VAL:HG11	1.95	0.49
8:GC:154:MET:HA	8:GC:157:LEU:HG	1.94	0.49
8:GE:5:ILE:HG12	8:GE:64:ARG:HB3	1.94	0.49
9:GF:182:PRO:HD2	9:GF:388:MET:HE1	1.94	0.49
8:GM:262:TYR:OH	9:GN:391:ARG:O	2.31	0.49
9:GN:324:LYS:HZ2	8:GO:214:ARG:HD2	1.78	0.49
8:GO:79:ARG:HG3	8:GO:92:LEU:HD12	1.95	0.49
8:HA:150:ALA:HA	8:HA:153:LEU:HG	1.95	0.49
8:HE:88:HIS:CD2	8:IE:283:HIS:HB2	2.48	0.49
8:HG:160:ASP:HA	36:Y1:178:LYS:HZ2	1.78	0.49
8:HG:328:VAL:HG11	8:HG:353:VAL:HG11	1.94	0.49
8:HI:93:ILE:HD12	8:HI:118:VAL:HG12	1.94	0.49
9:HN:263:LEU:HD13	9:HN:422:TYR:CE2	2.48	0.49
8:HO:316:CYS:HB2	8:HO:378:LEU:HB2	1.94	0.49
17:I:9:LEU:HG	25:U:414:MET:HE1	1.95	0.49
8:IC:286:LEU:H	8:IC:286:LEU:HD23	1.77	0.49
9:ID:7:LEU:N	9:ID:134:GLN:O	2.46	0.49
9:ID:396:HIS:HA	9:ID:399:THR:OG1	2.13	0.49
9:IH:250:LEU:O	9:IH:254:ALA:N	2.45	0.49
8:II:152:LEU:HD12	8:II:153:LEU:N	2.28	0.49
8:IK:239:THR:O	8:IK:243:ARG:HG3	2.13	0.49
8:IM:68:VAL:HG12	8:IM:93:ILE:HB	1.94	0.49
8:IM:132:LEU:HB3	8:IM:164:LYS:NZ	2.27	0.49
9:IN:68:LEU:CD1	9:IN:147:MET:HE1	2.42	0.49
9:IN:187:LEU:HD11	9:IN:408:PHE:HE1	1.78	0.49
9:IN:221:THR:OG1	9:IN:222:TYR:N	2.46	0.49
19:J3:90:ARG:NH2	8:OG:322:ASP:OD1	2.46	0.49
8:JE:207:GLU:O	8:JE:210:TYR:HB2	2.12	0.49
8:JE:336:LYS:NZ	9:JF:174:LYS:O	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JE:439:SER:H	9:JF:391:ARG:HH21	1.58	0.49
9:JH:415:MET:HA	9:JH:415:MET:HE3	1.95	0.49
9:JL:323:MET:O	9:JL:327:ASP:N	2.41	0.49
20:K1:53:LYS:HD3	20:K1:56:SER:HB2	1.93	0.49
8:KC:54:SER:O	8:KC:61:HIS:HA	2.13	0.49
8:KE:264:ARG:HH11	8:KE:428:LEU:HD21	1.77	0.49
8:KE:385:ALA:HA	8:KE:388:TRP:HD1	1.78	0.49
9:KF:128:ASP:OD1	9:KF:128:ASP:N	2.34	0.49
8:KG:22:GLU:OE1	8:KG:229:ARG:NH1	2.45	0.49
9:KN:327:ASP:HA	9:KN:330:MET:HE1	1.94	0.49
8:KO:312:TYR:CE2	8:KO:341:ILE:HG13	2.47	0.49
8:KO:317:MET:HE1	8:KO:377:MET:HB2	1.94	0.49
9:LD:110:ALA:O	9:LD:113:VAL:HG12	2.13	0.49
8:LO:217:LEU:HD21	8:LO:368:LEU:HD23	1.93	0.49
9:MB:313:VAL:HG13	9:MB:367:PHE:HE1	1.78	0.49
9:MD:72:THR:O	9:MD:75:SER:OG	2.31	0.49
9:MD:267:MET:HG2	9:MD:301:ALA:HB3	1.95	0.49
9:MF:158:GLU:HB2	9:MF:159:TYR:HD1	1.78	0.49
9:MH:1:MET:N	9:MH:3:GLU:OE2	2.44	0.49
8:MK:254:GLU:O	8:MK:258:ASN:ND2	2.43	0.49
8:MM:203:MET:HE1	8:MM:267:PHE:HB3	1.95	0.49
9:MP:53:GLU:OE1	9:MP:54:ALA:N	2.45	0.49
15:N2:133:ASP:OD2	15:N2:149:ASN:ND2	2.46	0.49
8:NG:143:GLY:O	8:NG:147:SER:OG	2.27	0.49
8:NI:123:ARG:NH2	36:Y4:68:PRO:HB3	2.27	0.49
9:NJ:318:ARG:HG2	9:NJ:358:PRO:HD2	1.94	0.49
8:NK:217:LEU:HG	8:NK:219:ILE:CD1	2.42	0.49
23:O:50:GLU:HA	23:O:53:LYS:NZ	2.27	0.49
9:OB:245:GLN:HG2	9:OB:355:ASP:OD1	2.13	0.49
9:OF:325:GLU:OE2	8:OG:221:ARG:NH1	2.46	0.49
8:OI:340:THR:HB	36:Y4:69:ARG:HB3	1.94	0.49
9:OJ:164:MET:O	9:OJ:197:ASP:HB2	2.12	0.49
8:OK:11:GLN:HG3	8:OK:74:VAL:HG11	1.95	0.49
9:OL:213:ARG:HH12	36:Y5:244:ASP:HA	1.78	0.49
9:OL:375:GLN:HG3	9:OL:379:LYS:NZ	2.28	0.49
8:OO:172:TYR:OH	8:OO:390:ARG:NH2	2.40	0.49
8:OO:214:ARG:HD3	36:Y5:190:VAL:HG11	1.94	0.49
9:OP:375:GLN:HA	9:OP:378:PHE:HD2	1.78	0.49
23:P:151:SER:O	23:P:155:MET:HG3	2.12	0.49
8:PK:102:ASN:HB3	8:PK:105:ARG:HB2	1.94	0.49
8:PK:311:LYS:H	8:PK:382:THR:HG22	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PK:433:GLU:O	8:PK:437:VAL:HG13	2.13	0.49
28:Q1:145:ARG:NH2	12:S5:109:GLU:OE2	2.45	0.49
8:QC:102:ASN:HB3	8:QC:105:ARG:HB2	1.95	0.49
8:QG:56:THR:HG22	8:RG:285:GLN:HB2	1.94	0.49
8:QG:171:ILE:HD11	50:QG:501:GTP:H1'	1.94	0.49
8:QG:191:THR:HG21	8:QG:425:LEU:HD11	1.94	0.49
8:QI:88:HIS:HE2	8:QI:90:GLU:HB3	1.78	0.49
9:QJ:192:LEU:HD11	9:QJ:199:THR:OG1	2.13	0.49
9:QJ:293:MET:HE1	9:QJ:294:PHE:CD1	2.47	0.49
8:QO:90:GLU:OE2	8:RO:280:LYS:HD3	2.13	0.49
9:QP:167:PHE:CG	9:QP:233:MET:HE1	2.48	0.49
11:R4:132:PRO:O	11:R4:135:GLU:HG2	2.13	0.49
8:RC:112:LYS:HA	8:RC:115:VAL:CG1	2.42	0.49
8:RE:2:ARG:HB3	8:RE:242:LEU:HD23	1.94	0.49
8:RG:76:ASP:HA	8:RG:79:ARG:HE	1.78	0.49
9:RH:31:ASP:OD1	9:RH:35:THR:N	2.45	0.49
8:RI:62:VAL:HG22	8:SG:283:HIS:CD2	2.48	0.49
12:S1:369:LEU:HD23	12:S1:372:ILE:HD12	1.95	0.49
12:S3:294:VAL:HB	12:S5:50:TRP:CZ3	2.48	0.49
12:S6:443:ASP:OD1	12:S6:444:THR:N	2.46	0.49
12:S7:209:ASP:OD2	12:S7:465:THR:OG1	2.31	0.49
12:S7:401:ASP:O	12:S7:404:THR:OG1	2.28	0.49
9:SB:322:SER:OG	8:SC:222:PRO:O	2.23	0.49
9:SJ:26:ASP:O	9:SJ:359:ARG:NH1	2.45	0.49
8:SM:269:LEU:HD11	8:SM:303:VAL:HB	1.95	0.49
9:SN:72:THR:O	9:SN:75:SER:OG	2.25	0.49
8:TC:141:PHE:CZ	8:TC:203:MET:HE1	2.48	0.49
9:TD:138:SER:HA	9:TD:169:VAL:HB	1.95	0.49
8:TE:16:ILE:HA	8:TE:228:ASN:OD1	2.13	0.49
8:TE:313:MET:HG3	8:TE:344:VAL:HG11	1.94	0.49
9:TH:257:MET:CE	9:TH:314:ALA:HB2	2.42	0.49
8:TM:2:ARG:HB3	8:TM:242:LEU:HD23	1.95	0.49
8:TM:248:LEU:H	8:TM:355:ILE:HG23	1.76	0.49
30:U1:410:ASP:OD2	30:U2:145:ARG:NH1	2.46	0.49
8:UA:271:THR:HB	8:UA:377:MET:HB3	1.93	0.49
8:UA:408:TYR:HB3	8:UA:413:MET:HE1	1.94	0.49
9:UB:344:TRP:HA	8:UC:397:LEU:HD12	1.93	0.49
9:UB:346:PRO:HD2	8:UC:398:MET:HE1	1.95	0.49
9:UB:363:MET:HE3	9:UB:364:SER:H	1.77	0.49
8:UE:191:THR:HG21	8:UE:425:LEU:HD22	1.95	0.49
9:UF:295:ASP:HB3	9:UF:297:LYS:HE3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UH:167:PHE:CZ	9:UH:233:MET:HG3	2.48	0.49
8:UK:215:ARG:NH2	8:UK:300:ASN:OD1	2.43	0.49
8:VA:53:PHE:HA	8:VA:62:VAL:O	2.12	0.49
8:VG:311:LYS:H	8:VG:382:THR:HG22	1.78	0.49
9:WB:313:VAL:HB	9:WB:349:VAL:HG22	1.95	0.49
8:WK:70:LEU:HB3	8:WK:98:ASP:HA	1.95	0.49
9:WP:358:PRO:HG2	9:WP:361:LEU:HB3	1.94	0.49
34:X7:17:THR:HA	34:X7:27:LYS:HG2	1.94	0.49
34:X7:115:LEU:HD11	34:X7:205:MET:HE2	1.95	0.49
35:XD:146:THR:OG1	35:XD:147:ASN:N	2.46	0.49
35:XF:72:LYS:NZ	35:XF:150:GLU:HB3	2.28	0.49
35:XG:34:ILE:H	37:YF:190:ASN:HB2	1.78	0.49
35:XH:69:LEU:HB3	35:XH:71:ILE:HD12	1.95	0.49
31:Y:252:HIS:HB2	31:Y:261:GLU:HG3	1.95	0.49
31:Y:721:TRP:CD2	31:Y:728:ILE:HD12	2.48	0.49
40:a4:11:LEU:HD11	40:a4:40:LYS:HE2	1.95	0.49
41:b2:403:ARG:NH1	41:b3:243:GLN:O	2.45	0.49
41:b4:426:ASN:HA	41:b4:429:MET:HG2	1.94	0.49
39:c:338:GLN:HA	39:c:341:MET:HG3	1.95	0.49
39:d:447:GLU:O	39:d:451:ARG:HG2	2.13	0.49
42:g:362:MET:HA	42:g:613:ARG:HH12	1.76	0.49
42:g:426:THR:OG1	42:g:428:ASP:OD1	2.30	0.49
43:j:174:ASN:O	43:j:178:GLU:HG2	2.13	0.49
47:p:443:MET:HE2	47:p:443:MET:O	2.12	0.49
2:1:487:TRP:HD1	2:1:489:HIS:H	1.59	0.48
8:AC:33:ASP:OD1	8:AC:85:GLN:NE2	2.46	0.48
8:AE:168:GLU:O	8:AE:201:ALA:HA	2.13	0.48
8:AG:79:ARG:HH22	8:AG:94:THR:HG21	1.78	0.48
9:AH:143:THR:OG1	52:AH:502:GDP:O1B	2.23	0.48
9:AL:253:LEU:O	9:AL:257:MET:HB2	2.12	0.48
9:AN:134:GLN:OE1	9:AN:165:ASN:HB3	2.12	0.48
9:AN:245:GLN:HE22	33:X5:86:VAL:HG21	1.78	0.48
9:AP:299:MET:SD	9:AP:301:ALA:N	2.86	0.48
11:B2:297:ILE:HG23	11:B2:356:LEU:HD11	1.95	0.48
9:BF:407:GLU:OE1	9:BF:407:GLU:N	2.44	0.48
9:BP:31:ASP:OD1	9:BP:35:THR:N	2.46	0.48
12:C2:457:HIS:ND1	30:W5:43:PRO:HA	2.27	0.48
8:CC:335:ILE:HA	8:CC:338:LYS:HE3	1.95	0.48
9:CD:117:LEU:HD21	9:CD:154:LYS:HE2	1.95	0.48
9:CF:290:THR:HG21	9:CF:329:GLN:HB3	1.94	0.48
8:CG:173:PRO:O	8:CG:390:ARG:NH2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CK:206:ASN:HD21	50:CK:501:GTP:HN22	1.61	0.48
9:CL:344:TRP:H	9:CL:344:TRP:CD1	2.31	0.48
8:CM:172:TYR:CD1	8:CM:173:PRO:HD2	2.47	0.48
14:D1:163:GLN:HB2	14:D1:418:VAL:HG13	1.95	0.48
8:DK:226:ASN:ND2	8:DK:367:ASP:OD2	2.46	0.48
15:E:191:THR:HG22	15:E:192:HIS:H	1.76	0.48
9:EJ:138:SER:HA	9:EJ:169:VAL:HB	1.94	0.48
8:EK:36:MET:SD	8:EK:61:HIS:NE2	2.86	0.48
9:EL:165:ASN:ND2	9:EL:200:TYR:OH	2.45	0.48
9:EN:207:LEU:HD23	9:EN:225:LEU:HB3	1.95	0.48
9:FD:184:ASN:O	9:FD:188:SER:OG	2.23	0.48
8:FE:233:GLN:HA	8:FE:236:SER:HB3	1.95	0.48
9:FH:87:PRO:HD2	9:GH:281:TYR:CZ	2.48	0.48
9:FJ:313:VAL:HG13	9:FJ:367:PHE:HE1	1.78	0.48
8:FK:279:GLU:HG2	17:Z4:237:ARG:HE	1.78	0.48
9:FL:245:GLN:O	8:FM:11:GLN:NE2	2.46	0.48
9:FN:274:THR:HB	9:FN:278:SER:HB2	1.95	0.48
9:GD:276:ARG:HH21	36:Y2:251:VAL:HA	1.78	0.48
8:GI:91:GLN:HA	8:GI:121:ARG:NH1	2.28	0.48
9:GN:311:LEU:N	9:GN:370:ASN:O	2.45	0.48
9:HH:293:MET:SD	9:HH:367:PHE:HB2	2.53	0.48
8:HI:5:ILE:HD12	8:HI:135:PHE:CE1	2.48	0.48
8:HK:311:LYS:H	8:HK:382:THR:HG22	1.77	0.48
8:HM:213:CYS:HA	8:HM:217:LEU:HD13	1.94	0.48
9:HN:7:LEU:N	9:HN:134:GLN:O	2.44	0.48
9:HN:138:SER:HA	9:HN:169:VAL:H	1.78	0.48
9:IB:130:LEU:HD21	9:IB:133:PHE:CE1	2.48	0.48
8:IE:214:ARG:HG3	8:IE:220:GLU:HA	1.94	0.48
9:IH:317:PHE:HB3	9:IH:321:MET:HE1	1.95	0.48
9:JB:21:TRP:HZ3	9:JB:51:TYR:CE1	2.31	0.48
8:JC:344:VAL:HG13	8:JC:346:TRP:H	1.77	0.48
8:JE:185:TYR:O	8:JE:189:LEU:HD13	2.13	0.48
8:JI:245:ASP:OD1	8:JI:245:ASP:N	2.38	0.48
8:JM:63:PRO:O	8:JM:91:GLN:NE2	2.45	0.48
8:JM:155:GLU:HA	8:JM:197:HIS:CD2	2.48	0.48
9:JN:111:GLU:OE1	9:JN:111:GLU:N	2.44	0.48
8:JO:188:ILE:O	8:JO:191:THR:OG1	2.26	0.48
8:KE:191:THR:HA	8:KE:194:THR:HB	1.95	0.48
9:KH:254:ALA:O	9:KH:258:VAL:HG22	2.13	0.48
8:KI:196:GLU:OE2	44:h3:127:TYR:HA	2.13	0.48
8:KK:124:LYS:NZ	8:LK:297:GLU:OE2	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KK:176:GLN:HG2	8:KK:177:VAL:N	2.28	0.48
9:KL:51:TYR:HB3	9:KL:59:TYR:HB3	1.95	0.48
8:KM:75:VAL:HG12	8:KM:79:ARG:NH1	2.28	0.48
8:KO:275:VAL:O	8:KO:275:VAL:HG23	2.13	0.48
9:KP:330:MET:HE3	9:KP:349:VAL:HB	1.95	0.48
21:L1:65:TYR:HB2	39:a:242:ARG:NH1	2.28	0.48
21:L1:157:HIS:HA	21:L1:160:THR:HG22	1.94	0.48
8:LI:297:GLU:O	8:LI:301:GLN:NE2	2.35	0.48
9:LJ:375:GLN:O	9:LJ:379:LYS:HE2	2.13	0.48
9:LN:390:ARG:CZ	43:k:94:HIS:HB3	2.42	0.48
22:M1:194:LEU:HD22	22:M1:195:TYR:CE2	2.48	0.48
9:MH:404:ASP:OD1	9:MH:404:ASP:N	2.41	0.48
8:MK:1:MET:HE2	8:MK:1:MET:HA	1.95	0.48
9:MN:404:ASP:OD1	9:MN:404:ASP:N	2.46	0.48
8:MO:203:MET:SD	8:MO:203:MET:N	2.83	0.48
15:N2:126:ASN:N	15:N2:126:ASN:OD1	2.44	0.48
8:NE:186:ASN:O	8:NE:190:THR:OG1	2.22	0.48
9:NJ:363:MET:HE3	9:NJ:364:SER:N	2.28	0.48
8:NO:307:PRO:HB3	8:NO:312:TYR:HE2	1.77	0.48
8:OA:132:LEU:O	8:OA:164:LYS:NZ	2.39	0.48
9:OB:250:LEU:O	9:OB:253:LEU:HD12	2.13	0.48
9:OH:35:THR:HG23	9:OH:58:LYS:NZ	2.28	0.48
8:OK:336:LYS:O	8:OK:336:LYS:NZ	2.36	0.48
8:OO:328:VAL:O	8:OO:332:ILE:HG12	2.12	0.48
26:P1:49:HIS:CE1	26:P1:56:TYR:HB2	2.48	0.48
17:P8:88:HIS:CE1	11:R3:73:ARG:HD2	2.48	0.48
8:PC:75:VAL:HG12	8:PC:79:ARG:HE	1.78	0.48
9:PD:309:ARG:HG3	9:PD:426:GLN:HG3	1.95	0.48
9:PF:271:ALA:HB1	9:PF:289:LEU:HD22	1.94	0.48
8:PG:386:GLU:O	8:PG:390:ARG:NH1	2.45	0.48
9:PL:34:GLY:HA3	9:PL:58:LYS:HE2	1.95	0.48
8:PM:108:TYR:HA	8:PM:112:LYS:HE3	1.95	0.48
9:PP:10:GLY:O	9:PP:14:ASN:ND2	2.46	0.48
28:Q2:22:PHE:CZ	12:S3:438:LEU:HD11	2.47	0.48
28:Q2:120:ASP:OD1	28:Q2:120:ASP:N	2.44	0.48
9:QB:7:LEU:N	9:QB:134:GLN:O	2.43	0.48
8:QG:51:THR:HG21	8:QG:243:ARG:HG2	1.94	0.48
9:QH:385:PHE:O	9:QH:389:PHE:N	2.34	0.48
8:QK:8:HIS:H	8:QK:8:HIS:CD2	2.31	0.48
9:QL:135:LEU:HD22	9:QL:137:HIS:HD2	1.78	0.48
29:R:114:ASP:HB3	29:R:117:ALA:HB2	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:R:152:ARG:O	29:R:156:LYS:HG2	2.13	0.48
11:R4:403:LYS:NZ	11:R4:405:VAL:HG12	2.27	0.48
9:RF:31:ASP:OD1	9:RF:35:THR:N	2.45	0.48
9:RH:158:GLU:C	9:RH:159:TYR:HD1	2.20	0.48
9:RH:197:ASP:OD1	9:RH:197:ASP:N	2.46	0.48
8:RK:29:GLY:C	8:RK:36:MET:HE1	2.38	0.48
12:S4:255:GLU:CD	12:S5:204:LYS:HE3	2.38	0.48
12:S5:121:ARG:NH1	12:S6:374:GLN:HB3	2.27	0.48
12:S8:357:ALA:O	12:S8:361:ILE:HG12	2.13	0.48
8:SE:346:TRP:CE2	9:SF:391:ARG:HG3	2.48	0.48
8:SE:398:MET:CE	8:SE:404:PHE:HD2	2.23	0.48
8:SG:2:ARG:HH21	8:SG:243:ARG:HA	1.76	0.48
8:SG:116:ASP:N	8:SG:116:ASP:OD1	2.43	0.48
8:SI:116:ASP:N	8:SI:116:ASP:OD1	2.45	0.48
9:SN:73:MET:HA	9:SN:76:VAL:HB	1.95	0.48
14:T1:328:GLU:O	14:T1:332:GLN:N	2.35	0.48
8:TA:226:ASN:ND2	8:TA:367:ASP:OD2	2.46	0.48
9:TB:258:VAL:HB	8:TC:407:TRP:HZ2	1.77	0.48
8:TC:4:CYS:HB2	8:TC:52:PHE:HE1	1.78	0.48
8:TC:26:LEU:HD12	8:TC:27:GLU:N	2.28	0.48
8:TG:183:GLU:HA	8:TG:186:ASN:HD22	1.78	0.48
8:TG:264:ARG:NH1	8:TG:431:ASP:OD2	2.44	0.48
9:TH:114:ASP:N	9:TH:114:ASP:OD1	2.45	0.48
9:TL:309:ARG:HG3	9:TL:426:GLN:HG3	1.95	0.48
8:TM:269:LEU:HD13	8:TM:303:VAL:HB	1.95	0.48
9:TN:165:ASN:HB2	9:TN:200:TYR:HE2	1.77	0.48
30:U1:101:LEU:HD12	30:W4:443:LEU:HD13	1.94	0.48
9:UD:237:THR:HG22	9:UD:250:LEU:HD21	1.93	0.48
8:UE:107:HIS:HA	8:UE:152:LEU:HD23	1.94	0.48
8:UG:93:ILE:HD13	8:UG:117:LEU:HG	1.95	0.48
9:UL:175:VAL:N	9:UL:205:GLU:OE2	2.41	0.48
9:UL:248:ALA:HA	9:UL:252:LYS:HG3	1.95	0.48
9:UN:252:LYS:NZ	50:UO:501:GTP:O3G	2.46	0.48
9:UN:407:GLU:HA	9:UN:410:GLU:HG2	1.93	0.48
30:V0:388:PRO:HA	30:V0:391:MET:HE2	1.94	0.48
30:V1:391:MET:HE3	30:V2:272:SER:H	1.78	0.48
30:V3:398:CYS:HA	30:V3:401:ARG:HH21	1.77	0.48
8:VA:311:LYS:H	8:VA:382:THR:HG22	1.77	0.48
9:VB:360:GLY:HA2	39:a:343:PHE:CZ	2.46	0.48
8:VC:154:MET:SD	8:VC:193:THR:HG22	2.52	0.48
9:VD:363:MET:HE3	9:VD:364:SER:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VE:284:GLU:N	8:VE:284:GLU:OE2	2.46	0.48
9:VF:249:ASP:H	9:VF:252:LYS:HB2	1.78	0.48
9:VH:30:ILE:HG13	9:VH:51:TYR:HE2	1.76	0.48
8:VI:102:ASN:HB3	8:VI:105:ARG:HB2	1.95	0.48
8:VI:107:HIS:HA	8:VI:152:LEU:HD23	1.94	0.48
9:VJ:207:LEU:HB3	9:VJ:225:LEU:HG	1.95	0.48
9:VL:69:GLU:HG2	9:VL:71:GLY:H	1.76	0.48
9:VL:150:LEU:HG	9:VL:154:LYS:HE2	1.95	0.48
30:W2:399:ARG:HE	30:W2:402:ARG:NH1	2.11	0.48
8:WA:9:VAL:HA	8:WA:68:VAL:HG23	1.95	0.48
8:WG:151:SER:HA	8:WG:193:THR:HG21	1.95	0.48
9:WJ:239:CYS:SG	9:WJ:248:ALA:N	2.84	0.48
8:WO:68:VAL:HG12	8:WO:93:ILE:HB	1.95	0.48
33:X4:180:ASN:HA	33:X4:184:ILE:HB	1.95	0.48
31:Y:631:ILE:HD12	31:Y:631:ILE:H	1.76	0.48
36:Y1:240:ILE:HG22	36:Y1:241:LYS:H	1.77	0.48
17:Z3:241:THR:OG1	17:Z3:242:GLN:NE2	2.46	0.48
39:a:254:ARG:O	39:a:258:LYS:HG3	2.13	0.48
41:b2:405:VAL:HG11	44:h2:73:GLN:HB3	1.95	0.48
39:c:409:ASN:HA	39:c:412:LYS:HB3	1.95	0.48
44:h4:128:GLN:HA	44:h4:131:VAL:HG22	1.94	0.48
2:1:721:THR:HG23	9:IF:355:ASP:HB3	1.95	0.48
7:A1:347:ASN:HB3	7:A2:48:ILE:HD13	1.95	0.48
7:A2:168:LYS:O	7:A2:172:GLU:HG3	2.13	0.48
7:A4:12:LEU:HD23	7:A4:14:GLU:H	1.77	0.48
8:AA:6:SER:HB2	8:AA:65:ALA:HA	1.95	0.48
8:AK:51:THR:HG21	8:AK:243:ARG:HG2	1.95	0.48
8:AM:338:LYS:NZ	48:s:72:ASP:OD2	2.33	0.48
8:AO:228:ASN:HA	8:AO:231:ILE:HG22	1.94	0.48
8:AO:316:CYS:HB3	8:AO:378:LEU:HB2	1.95	0.48
8:BE:27:GLU:HG2	8:BE:361:THR:HG21	1.94	0.48
9:BH:268:PRO:HG2	9:BH:300:MET:HE3	1.95	0.48
8:BK:79:ARG:NH2	8:BK:94:THR:OG1	2.46	0.48
9:CD:293:MET:HA	9:CD:293:MET:HE3	1.95	0.48
9:CD:372:THR:HG21	9:CD:426:GLN:HB2	1.95	0.48
9:CF:245:GLN:O	8:CG:11:GLN:NE2	2.46	0.48
9:CJ:322:SER:OG	8:CK:222:PRO:O	2.30	0.48
9:CL:330:MET:N	9:CL:330:MET:SD	2.86	0.48
8:CO:254:GLU:HG2	9:CP:98:GLY:HA2	1.95	0.48
8:CQ:79:ARG:HH11	40:a4:17:TYR:HD1	1.61	0.48
8:CQ:297:GLU:HG3	8:CQ:299:ALA:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DB:31:ASP:OD1	9:DB:35:THR:N	2.44	0.48
9:DF:230:SER:HA	9:DF:233:MET:HE1	1.94	0.48
9:DL:68:LEU:HB2	9:DL:96:GLY:HA2	1.95	0.48
9:EF:213:ARG:HH21	9:EF:297:LYS:HD3	1.77	0.48
9:EF:372:THR:HG21	9:EF:426:GLN:HB2	1.95	0.48
8:EG:195:LEU:HD21	8:EG:264:ARG:HH21	1.78	0.48
9:EN:318:ARG:HG2	9:EN:358:PRO:HD3	1.95	0.48
8:FA:270:ALA:HB3	8:FA:302:MET:HE1	1.95	0.48
9:FD:130:LEU:O	9:FD:162:ARG:NH1	2.43	0.48
8:FK:206:ASN:OD1	50:FK:501:GTP:N2	2.47	0.48
8:GC:33:ASP:OD1	8:GC:34:GLY:N	2.47	0.48
8:GE:359:PRO:HB2	8:GE:370:LYS:HZ1	1.78	0.48
9:GF:87:PRO:HA	9:GF:90:PHE:HD1	1.78	0.48
8:GG:275:VAL:HA	8:GG:368:LEU:HD11	1.95	0.48
9:GH:178:THR:HB	9:GH:181:GLU:HB2	1.95	0.48
9:GJ:344:TRP:H	9:GJ:344:TRP:CD1	2.31	0.48
8:GK:166:LYS:N	8:GK:199:ASP:OD2	2.44	0.48
8:HA:338:LYS:HE2	8:HA:340:THR:HB	1.95	0.48
8:HI:345:ASP:N	8:HI:345:ASP:OD1	2.45	0.48
9:HJ:324:LYS:HB2	8:HK:221:ARG:HH21	1.78	0.48
8:HK:113:GLU:N	8:HK:113:GLU:OE1	2.46	0.48
9:HL:259:PRO:HG3	9:HL:311:LEU:HD21	1.94	0.48
9:IB:86:ARG:HB3	9:IB:89:ASN:OD1	2.13	0.48
8:IC:230:LEU:O	8:IC:234:ILE:HG12	2.13	0.48
8:IE:101:ASN:HA	8:IE:144:GLY:H	1.77	0.48
8:IE:234:ILE:HD11	8:IE:272:TYR:HB2	1.95	0.48
9:IF:423:GLN:NE2	9:IF:427:ASP:OD2	2.47	0.48
8:IG:172:TYR:N	8:IG:204:VAL:O	2.39	0.48
9:IH:291:GLN:NE2	36:Y1:161:PHE:HB3	2.27	0.48
8:IO:69:ASP:OD1	8:IO:71:GLU:N	2.41	0.48
8:IO:258:ASN:HB3	8:IO:352:LYS:NZ	2.28	0.48
9:IP:143:THR:HG22	9:IP:147:MET:HE1	1.96	0.48
19:J3:49:ARG:NH2	9:NF:59:TYR:OH	2.46	0.48
19:J4:146:ASP:HB3	19:J4:148:ARG:HH12	1.78	0.48
8:JI:123:ARG:NH2	8:JI:160:ASP:OD1	2.45	0.48
8:KC:333:ALA:O	8:KC:337:THR:HG22	2.13	0.48
9:KH:256:ASN:HD21	8:KI:181:VAL:H	1.59	0.48
8:KK:377:MET:HE3	8:KK:378:LEU:N	2.28	0.48
9:LP:32:PRO:HA	9:LP:84:ILE:HD11	1.95	0.48
17:M:9:LEU:HD13	25:O5:413:LEU:HD11	1.95	0.48
17:M:244:MET:HA	17:M:244:MET:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MA:194:THR:O	8:MA:266:HIS:NE2	2.41	0.48
9:MB:72:THR:O	9:MB:75:SER:OG	2.24	0.48
9:MB:346:PRO:HD3	8:MC:397:LEU:HD11	1.96	0.48
8:ME:262:TYR:OH	9:MF:391:ARG:O	2.31	0.48
9:MH:279:GLN:OE1	23:P:189:ARG:NH1	2.46	0.48
8:MI:258:ASN:OD1	9:MJ:180:VAL:HG12	2.13	0.48
8:NA:271:THR:HB	8:NA:377:MET:HB3	1.93	0.48
8:NE:2:ARG:HB3	8:NE:242:LEU:HD23	1.95	0.48
8:NE:107:HIS:HA	8:NE:152:LEU:HD23	1.94	0.48
8:NE:187:SER:O	8:NE:191:THR:HG23	2.13	0.48
9:NH:230:SER:HA	9:NH:233:MET:HE2	1.95	0.48
9:NJ:42:LEU:HD22	9:NJ:356:ILE:HG12	1.94	0.48
8:NM:53:PHE:O	8:NM:64:ARG:NE	2.45	0.48
9:NN:121:ARG:O	9:NN:125:GLU:HB3	2.13	0.48
8:NO:142:GLY:HA2	8:NO:183:GLU:HG3	1.93	0.48
24:O2:49:THR:HB	24:O2:101:THR:HG22	1.95	0.48
25:O6:51:ARG:NH1	25:O6:51:ARG:HA	2.29	0.48
17:O8:146:ARG:HG2	17:O8:165:ALA:HA	1.94	0.48
9:OB:50:TYR:O	9:OB:62:ARG:HG2	2.13	0.48
9:OB:156:ARG:NH1	9:OB:197:ASP:OD1	2.44	0.48
9:OD:194:GLU:HG3	9:OD:195:ASN:N	2.28	0.48
8:OE:137:ILE:HG22	8:OE:168:GLU:HA	1.94	0.48
8:OE:377:MET:HE3	8:OE:378:LEU:N	2.28	0.48
9:OJ:328:GLU:OE2	8:OK:214:ARG:NH1	2.42	0.48
9:OL:327:ASP:HA	9:OL:330:MET:HB2	1.95	0.48
8:OM:154:MET:HE2	8:OM:197:HIS:O	2.13	0.48
9:ON:20:PHE:HE2	9:ON:230:SER:HA	1.76	0.48
9:ON:167:PHE:CE1	9:ON:233:MET:HG2	2.48	0.48
9:OP:172:SER:OG	9:OP:205:GLU:OE1	2.26	0.48
9:OP:206:ALA:O	9:OP:210:ILE:HG22	2.13	0.48
27:P3:66:GLU:OE1	27:P3:66:GLU:N	2.37	0.48
27:P4:172:TRP:HB3	11:R2:20:ASN:HB2	1.95	0.48
17:P8:55:VAL:O	17:P8:56:LEU:HB2	2.12	0.48
9:PF:344:TRP:H	9:PF:344:TRP:CD1	2.29	0.48
8:PI:189:LEU:O	8:PI:192:HIS:ND1	2.43	0.48
9:PJ:87:PRO:HD3	9:QJ:281:TYR:CE2	2.48	0.48
8:PK:101:ASN:HB3	8:PK:182:VAL:HG21	1.95	0.48
9:PN:87:PRO:HA	9:PN:90:PHE:HD1	1.79	0.48
28:Q1:89:GLU:CD	28:Q1:89:GLU:H	2.22	0.48
28:Q1:190:ARG:HH11	28:Q1:191:PRO:HD2	1.78	0.48
28:Q4:88:ARG:O	28:Q4:92:THR:OG1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QD:50:TYR:HE2	9:QD:241:ARG:HD3	1.78	0.48
8:QE:270:ALA:C	8:QE:302:MET:HE1	2.38	0.48
8:QG:317:MET:HB3	8:QG:353:VAL:HA	1.95	0.48
8:QI:107:HIS:HA	8:QI:152:LEU:HD23	1.94	0.48
8:QI:311:LYS:H	8:QI:382:THR:HG22	1.78	0.48
9:QN:217:LEU:HD12	9:QN:220:PRO:HB3	1.94	0.48
8:QO:88:HIS:ND1	8:QO:90:GLU:OE1	2.46	0.48
8:QO:269:LEU:N	8:QO:379:SER:O	2.45	0.48
29:R:122:LEU:HD22	29:R:126:ILE:HD11	1.95	0.48
11:R3:332:ASP:HA	11:R4:215:LEU:HD11	1.95	0.48
8:RC:50:ASN:O	8:RC:64:ARG:NH1	2.46	0.48
8:RG:6:SER:HB3	8:RG:8:HIS:CD2	2.49	0.48
8:RI:269:LEU:HD21	8:RI:384:ILE:HB	1.95	0.48
9:RJ:138:SER:HA	9:RJ:169:VAL:HB	1.95	0.48
8:RK:35:GLN:N	8:RK:35:GLN:OE1	2.47	0.48
9:RL:406:MET:HE3	9:RL:406:MET:HA	1.93	0.48
8:RM:211:ASP:O	8:RM:215:ARG:HG3	2.13	0.48
12:S2:484:LEU:HD11	30:W0:383:VAL:HG23	1.94	0.48
12:S9:307:ASN:O	12:S9:310:ARG:HB2	2.13	0.48
8:SG:56:THR:HA	8:TG:285:GLN:HB2	1.96	0.48
8:SK:28:HIS:HB2	8:SK:30:ILE:CD1	2.42	0.48
8:SM:168:GLU:HB3	8:SM:200:CYS:O	2.13	0.48
25:T:133:VAL:HG12	25:T:148:LEU:HB2	1.95	0.48
14:T0:71:ARG:HH12	14:T1:325:THR:N	2.12	0.48
14:T1:62:ALA:HA	30:V8:380:ARG:NH1	2.28	0.48
14:T1:402:LEU:HA	14:T1:405:LEU:HD23	1.94	0.48
8:TK:437:VAL:O	9:TL:391:ARG:NH2	2.44	0.48
9:TL:324:LYS:NZ	8:TM:210:TYR:O	2.40	0.48
9:TN:344:TRP:CD1	9:TN:344:TRP:H	2.29	0.48
25:U:276:ARG:HA	25:U:290:LEU:HA	1.94	0.48
9:UB:4:ILE:HB	9:UB:50:TYR:HE2	1.78	0.48
9:UL:324:LYS:HG3	8:UM:222:PRO:HD2	1.95	0.48
8:UM:56:THR:HA	8:VM:285:GLN:HB2	1.95	0.48
8:UO:96:LYS:HG3	8:UO:97:GLU:HG3	1.95	0.48
8:UO:231:ILE:HA	8:UO:234:ILE:HG22	1.95	0.48
8:UO:360:PRO:O	8:UO:370:LYS:NZ	2.43	0.48
30:V1:408:CYS:SG	30:V2:145:ARG:NH2	2.86	0.48
30:V2:172:THR:HA	30:V2:175:ARG:HD3	1.95	0.48
30:V2:387:TYR:CD1	30:V2:388:PRO:HD2	2.48	0.48
30:V5:267:CYS:O	30:V5:272:SER:OG	2.26	0.48
30:V6:198:ARG:HA	30:V6:201:ARG:HH22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VD:53:GLU:HB3	48:q:149:HIS:CE1	2.48	0.48
9:VF:65:LEU:HB2	9:VF:73:MET:HE1	1.95	0.48
8:VG:132:LEU:HD21	8:VG:135:PHE:CE2	2.48	0.48
9:VH:101:TRP:HB2	9:VH:184:ASN:HB3	1.94	0.48
9:VJ:205:GLU:HA	9:VJ:208:TYR:HD2	1.77	0.48
8:VM:172:TYR:HB2	8:VM:203:MET:HB2	1.95	0.48
8:WA:259:LEU:HD21	8:WA:378:LEU:HG	1.95	0.48
9:WB:258:VAL:HB	8:WC:407:TRP:HZ2	1.77	0.48
9:WF:248:ALA:HA	9:WF:252:LYS:HG3	1.94	0.48
9:WH:165:ASN:HB2	9:WH:200:TYR:HE2	1.77	0.48
9:WJ:10:GLY:O	9:WJ:14:ASN:ND2	2.46	0.48
9:WP:27:GLU:HA	9:WP:359:ARG:HG3	1.94	0.48
35:XG:175:ASP:O	35:XG:182:LYS:NZ	2.46	0.48
36:Y2:78:LYS:HZ2	36:Y2:78:LYS:C	2.18	0.48
40:a4:84:LYS:NZ	40:a4:88:PRO:O	2.46	0.48
40:a4:118:THR:HG23	40:a4:120:PHE:H	1.78	0.48
41:b3:398:VAL:O	41:b3:402:GLN:HG2	2.12	0.48
42:f:100:LYS:HD3	42:f:100:LYS:N	2.28	0.48
42:g:561:VAL:HG22	42:g:595:ILE:HD11	1.93	0.48
46:i2:1335:GLN:HB3	46:i2:1372:LEU:HD22	1.95	0.48
46:i4:1443:ILE:HD11	46:i4:1483:ILE:HG23	1.95	0.48
47:p:491:VAL:HG23	47:p:492:GLN:HE22	1.78	0.48
1:0:75:MET:HE1	1:0:77:THR:O	2.13	0.48
2:1:435:GLU:OE1	9:HB:55:THR:OG1	2.27	0.48
4:6:348:ASP:HB2	4:6:368:LYS:HE2	1.95	0.48
8:AI:145:THR:OG1	8:AI:146:GLY:N	2.47	0.48
8:AM:105:ARG:HA	8:AM:109:THR:HG22	1.95	0.48
9:AN:31:ASP:HB3	9:AN:37:HIS:CD2	2.48	0.48
9:AN:41:ASP:HB3	17:N:211:ASN:HA	1.94	0.48
9:AN:414:ASN:HA	37:YG:175:ARG:HH12	1.77	0.48
11:B3:31:GLN:OE1	11:B4:369:HIS:ND1	2.42	0.48
8:BC:402:ARG:NH2	8:BC:415:GLU:OE2	2.45	0.48
9:BF:147:MET:N	9:BF:147:MET:SD	2.86	0.48
8:BG:108:TYR:O	8:BG:112:LYS:NZ	2.47	0.48
8:BI:80:THR:HG21	17:K:275:ILE:HG23	1.95	0.48
9:BL:68:LEU:HD12	9:BL:97:ALA:HB2	1.95	0.48
9:BN:164:MET:HE3	9:BN:164:MET:HA	1.94	0.48
8:CG:275:VAL:HG23	8:CG:368:LEU:HD21	1.95	0.48
8:CI:306:ASP:OD2	8:CI:308:ARG:NH2	2.44	0.48
9:CL:313:VAL:HB	9:CL:367:PHE:HE1	1.78	0.48
8:CM:288:VAL:HG21	8:CM:327:ASP:OD2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CQ:172:TYR:HB2	8:CQ:203:MET:CG	2.42	0.48
14:D1:175:GLU:HB3	14:D1:300:VAL:HG22	1.95	0.48
9:DD:322:SER:H	8:DE:221:ARG:NH2	2.11	0.48
8:DO:2:ARG:NH2	8:DO:133:GLN:OE1	2.33	0.48
15:E:108:LEU:CD1	15:E:110:ILE:HG12	2.43	0.48
8:EC:297:GLU:O	8:EC:301:GLN:NE2	2.34	0.48
9:EF:309:ARG:HG3	9:EF:426:GLN:HG3	1.95	0.48
9:EH:46:ARG:NH2	8:EI:76:ASP:OD2	2.46	0.48
9:EJ:41:ASP:N	9:EJ:41:ASP:OD1	2.46	0.48
9:EJ:323:MET:HE1	8:EK:224:TYR:CD1	2.48	0.48
8:EK:165:SER:HB3	8:EK:256:GLN:HE22	1.78	0.48
9:EL:113:VAL:HG11	9:EL:150:LEU:HD23	1.95	0.48
9:EL:323:MET:SD	9:EL:323:MET:N	2.75	0.48
8:EM:147:SER:OG	8:EM:190:THR:OG1	2.23	0.48
8:EO:203:MET:HE1	8:EO:267:PHE:HB3	1.95	0.48
8:FA:217:LEU:HD22	8:FA:367:ASP:HB2	1.95	0.48
8:FK:6:SER:HB3	8:FK:8:HIS:CD2	2.48	0.48
16:G:93:LYS:HE2	9:GL:92:PHE:CZ	2.48	0.48
8:GC:287:SER:O	8:GC:291:ILE:HG12	2.14	0.48
8:GG:172:TYR:HB2	8:GG:203:MET:SD	2.54	0.48
9:GJ:238:THR:HG21	9:GJ:318:ARG:HD2	1.96	0.48
8:GK:298:PRO:HA	8:GK:301:GLN:HG2	1.95	0.48
8:GO:60:LYS:HZ1	8:HO:283:HIS:HE2	1.61	0.48
8:GO:138:PHE:HA	8:GO:169:PHE:O	2.12	0.48
8:GO:384:ILE:HD12	8:GO:384:ILE:H	1.79	0.48
9:HF:12:CYS:SG	9:HF:138:SER:OG	2.71	0.48
9:HF:323:MET:CA	9:HF:326:VAL:HG12	2.42	0.48
8:HG:132:LEU:HD23	8:HG:164:LYS:NZ	2.28	0.48
9:HJ:218:THR:HG22	9:HJ:219:THR:HG23	1.95	0.48
9:HL:67:ASP:OD1	9:HL:67:ASP:N	2.46	0.48
8:HM:263:PRO:HG3	9:HN:396:HIS:CG	2.48	0.48
9:HN:125:GLU:OE2	36:Y1:52:SER:N	2.46	0.48
8:HO:172:TYR:HB2	8:HO:203:MET:HB2	1.95	0.48
18:I1:122:PHE:O	18:I1:125:HIS:N	2.46	0.48
9:IN:376:GLU:N	9:IN:376:GLU:OE2	2.45	0.48
8:IO:8:HIS:CE1	8:IO:138:PHE:CD2	3.01	0.48
19:J2:68:LEU:HA	8:OC:221:ARG:HG2	1.95	0.48
9:JB:81:PHE:HB3	9:JB:84:ILE:HD13	1.95	0.48
9:JB:388:MET:H	9:JB:388:MET:CE	2.25	0.48
9:JB:406:MET:HA	9:JB:406:MET:HE2	1.94	0.48
8:JC:262:TYR:HD2	8:JC:265:ILE:HD12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JE:264:ARG:NH1	8:JE:431:ASP:OD2	2.46	0.48
9:JF:318:ARG:HD3	9:JF:358:PRO:HD3	1.96	0.48
8:JI:201:ALA:O	8:JI:268:PRO:HD2	2.14	0.48
9:JL:140:GLY:HA3	9:JL:181:GLU:OE2	2.13	0.48
9:JL:199:THR:OG1	9:JL:264:HIS:NE2	2.37	0.48
9:JN:74:ASP:O	9:JN:77:ARG:NE	2.46	0.48
9:JN:252:LYS:HG3	8:JO:100:ALA:HA	1.95	0.48
8:KG:324:VAL:HG12	8:KG:326:LYS:H	1.78	0.48
8:KI:203:MET:HE3	8:KI:203:MET:HB3	1.68	0.48
8:KK:437:VAL:O	9:KL:391:ARG:NH1	2.43	0.48
9:KL:245:GLN:O	8:KM:11:GLN:NE2	2.45	0.48
8:KO:203:MET:HE2	8:KO:267:PHE:HD1	1.77	0.48
8:LA:271:THR:HB	8:LA:377:MET:HB3	1.96	0.48
8:LE:171:ILE:HD12	8:LE:206:ASN:HD21	1.78	0.48
9:LN:245:GLN:O	8:LO:11:GLN:NE2	2.45	0.48
8:LO:245:ASP:HB2	25:O6:27:ARG:HB2	1.94	0.48
22:M1:165:LEU:CD2	27:P3:87:PHE:CZ	2.97	0.48
22:M3:27:LYS:HD3	22:M3:27:LYS:N	2.28	0.48
22:M3:33:VAL:HG11	22:M3:45:THR:HG22	1.95	0.48
8:MC:367:ASP:OD1	8:MC:367:ASP:N	2.45	0.48
8:MI:319:TYR:HB3	8:MI:323:VAL:HG11	1.96	0.48
9:ML:340:TYR:OH	43:k:50:GLY:O	2.20	0.48
9:MN:269:GLY:HA2	9:MN:300:MET:HE3	1.94	0.48
9:MP:68:LEU:HB3	9:MP:96:GLY:HA2	1.95	0.48
15:N2:64:VAL:HB	15:N2:214:VAL:HG23	1.95	0.48
9:NB:181:GLU:HA	9:NB:184:ASN:HD21	1.76	0.48
9:NB:237:THR:OG1	9:NB:241:ARG:NH1	2.47	0.48
8:NC:298:PRO:HG3	8:NC:308:ARG:HE	1.79	0.48
9:NJ:392:LYS:HD2	9:NJ:395:LEU:HD22	1.95	0.48
9:NL:184:ASN:OD1	9:NL:184:ASN:N	2.44	0.48
8:NM:113:GLU:HB2	8:NM:114:ILE:HD12	1.95	0.48
8:NM:123:ARG:CZ	36:Y5:218:PRO:HA	2.43	0.48
8:NO:259:LEU:HG	8:NO:316:CYS:SG	2.53	0.48
8:NO:263:PRO:HG3	9:NP:396:HIS:CD2	2.48	0.48
23:O:74:ASP:O	23:O:78:GLN:HG2	2.13	0.48
8:OA:215:ARG:NH1	8:OA:216:ASN:OD1	2.47	0.48
9:OB:309:ARG:HG3	9:OB:426:GLN:HG3	1.95	0.48
9:OF:252:LYS:NZ	8:OG:71:GLU:OE2	2.41	0.48
8:OI:207:GLU:HG2	8:OI:304:LYS:HE2	1.95	0.48
9:OJ:35:THR:CG2	9:OJ:58:LYS:HZ3	2.22	0.48
8:OK:338:LYS:HE3	36:Y4:27:GLY:HA2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ON:221:THR:N	9:ON:224:ASP:OD1	2.45	0.48
27:P3:178:PHE:N	11:R0:125:ASP:OD1	2.46	0.48
27:P4:178:PHE:HB2	14:T4:333:GLU:OE2	2.13	0.48
27:P6:48:LEU:O	27:P6:52:GLU:HG2	2.12	0.48
9:PB:170:VAL:HG11	9:PB:377:LEU:HD21	1.94	0.48
9:PB:296:ALA:HB2	9:PB:306:ARG:HH11	1.78	0.48
8:PC:206:ASN:HB3	8:PC:210:TYR:CZ	2.48	0.48
9:PH:330:MET:SD	9:PH:334:GLN:HG3	2.53	0.48
8:PI:320:ARG:HD3	8:PI:360:PRO:HG3	1.94	0.48
8:PK:283:HIS:HD2	8:PK:284:GLU:HG2	1.78	0.48
8:PK:381:THR:OG1	8:PK:382:THR:N	2.47	0.48
9:PL:183:TYR:CZ	9:PL:388:MET:HE2	2.48	0.48
8:PM:90:GLU:OE2	8:PM:121:ARG:NH1	2.46	0.48
9:PP:284:LEU:HG	9:PP:363:MET:HE2	1.95	0.48
28:Q2:175:ARG:HB3	28:Q2:179:THR:HG21	1.94	0.48
28:Q3:154:ASN:OD1	28:Q3:155:GLN:N	2.46	0.48
28:Q4:10:ARG:HA	28:Q4:10:ARG:CZ	2.43	0.48
9:QB:24:ILE:HA	9:QB:27:GLU:HB2	1.95	0.48
9:QD:1:MET:N	9:QD:128:ASP:OD1	2.46	0.48
9:QD:69:GLU:HG2	9:QD:71:GLY:H	1.77	0.48
9:QD:290:THR:HA	9:QD:293:MET:HG2	1.95	0.48
8:QE:345:ASP:N	8:QE:345:ASP:OD1	2.45	0.48
8:QG:171:ILE:CD1	50:QG:501:GTP:H1'	2.43	0.48
8:QI:339:ARG:HH21	8:QI:342:GLN:HG2	1.79	0.48
8:QK:107:HIS:HA	8:QK:152:LEU:HD23	1.94	0.48
8:QM:386:GLU:OE1	8:QM:386:GLU:N	2.45	0.48
11:R2:380:LYS:HA	11:R2:380:LYS:HD3	1.69	0.48
11:R3:345:LEU:O	11:R3:349:ILE:HG23	2.13	0.48
9:RD:257:MET:HE3	9:RD:314:ALA:HB2	1.94	0.48
9:RF:221:THR:N	9:RF:224:ASP:OD2	2.46	0.48
8:RI:83:TYR:HB3	8:RI:86:LEU:HB3	1.96	0.48
8:RK:360:PRO:O	8:RK:370:LYS:NZ	2.42	0.48
9:RL:31:ASP:OD1	9:RL:35:THR:N	2.46	0.48
8:RM:213:CYS:SG	8:RM:217:LEU:HB2	2.52	0.48
9:RN:28:HIS:CG	9:RN:47:ILE:HG13	2.48	0.48
8:SE:233:GLN:O	8:SE:236:SER:OG	2.29	0.48
9:SF:14:ASN:HD21	9:SF:67:ASP:HB2	1.78	0.48
8:SI:138:PHE:HA	8:SI:169:PHE:O	2.13	0.48
8:SM:227:LEU:O	8:SM:231:ILE:HG12	2.13	0.48
8:SM:260:VAL:HB	9:SN:397:TRP:HZ2	1.77	0.48
9:SN:207:LEU:HB2	9:SN:225:LEU:HD23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:T:184:VAL:HG21	25:T:207:ILE:HG12	1.95	0.48
25:T:186:CYS:SG	25:T:190:THR:OG1	2.71	0.48
25:T:356:LYS:HG3	25:T:362:PRO:HA	1.95	0.48
14:T5:350:LEU:HG	14:T5:354:GLN:HE21	1.78	0.48
9:TF:130:LEU:O	9:TF:162:ARG:NH1	2.41	0.48
9:TH:131:GLN:OE1	9:TH:251:ARG:NH2	2.47	0.48
8:TI:210:TYR:OH	8:TI:224:TYR:HE2	1.96	0.48
9:TL:69:GLU:HG2	9:TL:71:GLY:H	1.78	0.48
30:U3:312:ALA:O	30:U3:316:ARG:HG3	2.13	0.48
8:UA:25:CYS:SG	8:UA:83:TYR:OH	2.71	0.48
8:UA:114:ILE:HD11	8:UA:117:LEU:HD23	1.94	0.48
8:UC:263:PRO:HG3	9:UD:396:HIS:CD2	2.48	0.48
9:UF:65:LEU:HD23	9:UF:90:PHE:CE2	2.48	0.48
9:UF:345:ILE:HA	8:UG:398:MET:HE1	1.94	0.48
9:UL:322:SER:OG	8:UM:222:PRO:O	2.30	0.48
25:V:422:TYR:HD1	25:V:508:THR:HG22	1.78	0.48
30:V1:410:ASP:N	30:V1:410:ASP:OD1	2.42	0.48
9:VD:257:MET:N	9:VD:257:MET:SD	2.87	0.48
8:VG:136:LEU:HG	8:VG:138:PHE:CZ	2.49	0.48
8:VG:255:PHE:O	8:VG:259:LEU:HB2	2.13	0.48
8:VM:74:VAL:HA	8:VM:77:GLU:OE1	2.13	0.48
8:VM:151:SER:HA	8:VM:193:THR:HG21	1.94	0.48
30:W2:253:ASP:OD2	30:W2:303:ASN:ND2	2.44	0.48
8:WA:49:PHE:HB2	8:WA:53:PHE:HD2	1.77	0.48
9:WB:108:GLU:HA	9:WB:111:GLU:OE1	2.13	0.48
9:WB:248:ALA:HA	9:WB:252:LYS:HG3	1.95	0.48
8:WC:393:HIS:O	8:WC:397:LEU:HD23	2.13	0.48
8:WE:367:ASP:OD1	8:WE:367:ASP:N	2.46	0.48
8:WG:324:VAL:HG22	42:f:157:ASN:HD21	1.77	0.48
8:WI:107:HIS:HA	8:WI:152:LEU:HD23	1.94	0.48
8:WM:2:ARG:NH2	9:WN:71:GLY:HA3	2.28	0.48
34:X7:109:GLY:HA2	34:X7:112:ALA:HB3	1.94	0.48
35:XB:71:ILE:HG22	35:XB:73:LEU:H	1.78	0.48
35:XG:178:PRO:HB2	35:XG:180:GLU:OE2	2.13	0.48
37:YC:179:PRO:HA	37:YC:231:MET:HE1	1.95	0.48
37:YD:68:ALA:HB3	37:YD:79:ALA:HB3	1.96	0.48
41:b4:115:ARG:HH11	44:h3:51:MET:HE1	1.77	0.48
42:e:497:GLN:NE2	42:e:498:MET:O	2.45	0.48
4:j1:211:ILE:HD12	4:j1:211:ILE:H	1.77	0.48
43:k:17:ASP:OD1	43:k:18:LEU:N	2.46	0.48
1:0:33:LEU:HD11	9:IN:119:VAL:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:696:GLU:OE2	5:8:25:SER:OG	2.31	0.48
3:4:404:ARG:O	3:4:408:LYS:HG3	2.13	0.48
4:6:225:HIS:CG	30:V7:273:THR:HB	2.48	0.48
7:A2:131:VAL:O	7:A2:135:GLU:HG2	2.13	0.48
8:AA:183:GLU:HA	8:AA:186:ASN:HD22	1.78	0.48
9:AD:31:ASP:OD2	9:AD:35:THR:OG1	2.32	0.48
9:AH:372:THR:HG23	9:AH:422:TYR:CD1	2.48	0.48
8:AI:3:GLU:HG3	8:AI:129:CYS:HB3	1.95	0.48
9:AN:289:LEU:O	9:AN:293:MET:HB2	2.12	0.48
8:AO:114:ILE:O	8:AO:118:VAL:HG22	2.13	0.48
11:B2:385:LEU:O	11:B2:385:LEU:HG	2.12	0.48
9:BB:356:ILE:HD12	17:H:271:PRO:HD2	1.95	0.48
9:BH:91:VAL:HG21	9:BH:116:VAL:CG1	2.43	0.48
9:BH:279:GLN:NE2	31:X:91:ASP:OD2	2.47	0.48
8:BI:111:GLY:O	8:BI:115:VAL:HG23	2.14	0.48
9:BJ:163:ILE:HD11	9:BJ:251:ARG:HE	1.78	0.48
8:BO:88:HIS:HB3	8:BO:91:GLN:HG2	1.95	0.48
8:BO:320:ARG:HD3	8:BO:360:PRO:HG3	1.94	0.48
8:CC:90:GLU:OE2	8:CC:90:GLU:N	2.47	0.48
8:CC:139:HIS:HE1	8:CC:141:PHE:HE1	1.62	0.48
8:CE:51:THR:HG21	8:CE:243:ARG:HG2	1.94	0.48
9:CF:326:VAL:O	9:CF:330:MET:HG2	2.13	0.48
9:CN:328:GLU:O	9:CN:332:ASN:ND2	2.47	0.48
14:D2:29:VAL:O	14:D2:33:THR:HG23	2.14	0.48
8:DK:141:PHE:CD1	8:DK:190:THR:HG21	2.48	0.48
8:DQ:211:ASP:HA	8:DQ:214:ARG:HE	1.79	0.48
9:EB:54:ALA:HB3	9:EB:58:LYS:HB2	1.95	0.48
9:EB:330:MET:HA	9:EB:333:VAL:HG12	1.96	0.48
8:EC:271:THR:HB	8:EC:377:MET:HB2	1.94	0.48
8:EE:88:HIS:HE1	8:EE:90:GLU:HB3	1.77	0.48
8:EI:217:LEU:HD21	8:EI:275:VAL:HG22	1.95	0.48
8:EM:264:ARG:NH1	8:EM:431:ASP:OD2	2.46	0.48
8:FA:324:VAL:O	8:FA:328:VAL:HG23	2.14	0.48
9:FB:295:ASP:OD1	9:FB:297:LYS:HG3	2.12	0.48
9:FH:132:GLY:HA2	9:FH:162:ARG:HB3	1.95	0.48
9:FN:314:ALA:HB3	9:FN:368:ILE:HB	1.95	0.48
8:GA:132:LEU:O	8:GA:164:LYS:NZ	2.36	0.48
9:GB:131:GLN:OE1	9:GB:251:ARG:NH2	2.43	0.48
9:GD:4:ILE:HB	9:GD:50:TYR:CE1	2.48	0.48
8:GG:7:ILE:HD12	8:GG:66:VAL:HB	1.96	0.48
8:GG:417:GLU:OE1	8:GG:417:GLU:N	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GH:327:ASP:HA	9:GH:330:MET:HG3	1.95	0.48
9:GL:69:GLU:HG2	9:GL:71:GLY:H	1.79	0.48
8:GM:56:THR:HG22	8:GM:60:LYS:N	2.21	0.48
8:GM:325:PRO:HB2	9:GN:208:TYR:OH	2.13	0.48
9:HB:344:TRP:CZ3	8:HC:401:LYS:HG2	2.49	0.48
8:HC:209:ILE:HB	8:HC:227:LEU:HD23	1.95	0.48
9:HD:252:LYS:HE3	8:HE:101:ASN:ND2	2.28	0.48
9:HD:344:TRP:CZ3	8:HE:403:ALA:HB2	2.48	0.48
9:HF:323:MET:HE1	8:HG:224:TYR:N	2.28	0.48
8:HM:326:LYS:HA	8:HM:329:ASN:HD21	1.78	0.48
8:HM:392:ASP:HA	8:HM:422:ARG:NH2	2.28	0.48
17:I:204:LEU:HD12	17:I:204:LEU:H	1.78	0.48
18:I1:106:ARG:NE	18:I1:106:ARG:HA	2.29	0.48
8:IE:60:LYS:HE2	9:JF:280:GLN:HB3	1.96	0.48
8:IE:60:LYS:HG3	8:IE:61:HIS:N	2.28	0.48
8:II:295:CYS:HB3	8:II:377:MET:HE2	1.94	0.48
8:IK:213:CYS:HB3	8:IK:219:ILE:HD12	1.95	0.48
9:IL:183:TYR:OH	9:IL:388:MET:O	2.32	0.48
9:IP:265:PHE:HB2	9:IP:374:ILE:HD12	1.95	0.48
19:J5:63:ILE:HG23	9:NN:44:LEU:HD22	1.94	0.48
19:J5:140:LEU:HD21	41:b5:348:GLU:HA	1.96	0.48
9:JB:22:GLU:HG2	9:JB:81:PHE:HB2	1.95	0.48
9:JB:182:PRO:O	9:JB:186:THR:HG23	2.13	0.48
8:JC:185:TYR:OH	8:JC:403:ALA:O	2.29	0.48
8:JC:353:VAL:HB	9:JD:177:ASP:HB2	1.95	0.48
9:JD:313:VAL:HG23	9:JD:367:PHE:CE2	2.48	0.48
9:JJ:198:GLU:HA	9:JJ:264:HIS:HB2	1.94	0.48
9:JN:309:ARG:HD3	9:JN:342:VAL:HA	1.95	0.48
9:JP:202:ILE:HD13	9:JP:229:VAL:HG22	1.94	0.48
8:KC:1:MET:SD	8:KC:130:THR:OG1	2.72	0.48
9:KD:344:TRP:CG	8:KE:401:LYS:HZ2	2.31	0.48
8:KE:27:GLU:OE2	8:KE:243:ARG:NH2	2.37	0.48
8:KE:260:VAL:HB	9:KF:397:TRP:HZ2	1.78	0.48
8:KG:277:SER:O	8:KG:281:ALA:N	2.42	0.48
8:KK:3:GLU:HA	8:KK:51:THR:HA	1.95	0.48
8:LA:132:LEU:O	8:LA:164:LYS:NZ	2.39	0.48
8:LE:132:LEU:O	8:LE:164:LYS:NZ	2.30	0.48
8:LE:345:ASP:N	8:LE:345:ASP:OD1	2.45	0.48
8:LG:286:LEU:O	8:LG:373:ARG:NH1	2.44	0.48
8:LG:396:ASP:OD2	8:LG:422:ARG:NH2	2.40	0.48
9:LJ:390:ARG:O	9:LJ:390:ARG:NE	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LK:183:GLU:HG3	8:LK:184:PRO:HD3	1.95	0.48
9:LL:324:LYS:HZ2	8:LM:214:ARG:HB3	1.78	0.48
8:MC:49:PHE:HD2	8:MC:53:PHE:HB2	1.79	0.48
9:MF:42:LEU:HD22	9:MF:356:ILE:HD11	1.94	0.48
8:MI:102:ASN:HB3	8:MI:105:ARG:HB2	1.94	0.48
9:ML:41:ASP:OD2	33:X5:18:SER:OG	2.31	0.48
9:ML:92:PHE:CZ	31:Y:26:TRP:HB3	2.48	0.48
8:MM:315:CYS:HB3	8:MM:377:MET:HE1	1.95	0.48
8:MM:369:ALA:HA	23:P:48:GLN:HE22	1.78	0.48
9:MP:91:VAL:HA	31:Z:33:ARG:NH2	2.27	0.48
17:N:289:ILE:HB	17:N:292:MET:HG2	1.95	0.48
8:NA:252:LEU:HA	8:NA:255:PHE:CZ	2.48	0.48
8:NK:279:GLU:H	8:NK:279:GLU:CD	2.18	0.48
9:NL:109:GLY:O	9:NL:113:VAL:HG13	2.13	0.48
8:NM:3:GLU:HA	8:NM:51:THR:HA	1.94	0.48
24:O1:20:GLY:HA2	24:O1:35:VAL:HG21	1.96	0.48
8:OA:121:ARG:HH21	8:OA:124:LYS:HB2	1.78	0.48
8:OA:133:GLN:HB3	8:OA:252:LEU:HD22	1.95	0.48
9:OB:69:GLU:HG2	9:OB:71:GLY:H	1.77	0.48
8:OC:175:PRO:HA	8:OC:390:ARG:NH1	2.29	0.48
8:OE:49:PHE:HB2	8:OE:53:PHE:HB2	1.95	0.48
9:OH:26:ASP:O	9:OH:359:ARG:NH1	2.46	0.48
9:OH:289:LEU:O	9:OH:293:MET:HB2	2.12	0.48
8:OK:129:CYS:SG	8:OK:132:LEU:HB2	2.53	0.48
8:OO:209:ILE:HD12	8:OO:227:LEU:HD23	1.96	0.48
8:PE:188:ILE:O	8:PE:191:THR:OG1	2.32	0.48
9:PF:407:GLU:OE1	9:PF:407:GLU:N	2.38	0.48
9:PJ:170:VAL:HG21	9:PJ:201:CYS:HB2	1.95	0.48
8:PM:62:VAL:HG22	8:QM:283:HIS:CD2	2.49	0.48
28:Q2:35:GLU:OE2	28:Q2:35:GLU:N	2.41	0.48
28:Q3:178:PHE:O	11:R3:80:LYS:NZ	2.37	0.48
8:QC:262:TYR:HD2	8:QC:265:ILE:HD12	1.77	0.48
9:QH:139:LEU:HD21	9:QH:168:SER:HB2	1.96	0.48
9:QH:191:GLN:NE2	9:QH:194:GLU:OE2	2.45	0.48
8:QK:88:HIS:HD2	8:QK:91:GLN:HG3	1.78	0.48
9:QL:252:LYS:HG2	8:QM:100:ALA:HA	1.95	0.48
8:QM:302:MET:N	8:QM:302:MET:SD	2.85	0.48
8:QO:318:LEU:HB3	8:QO:376:CYS:HB3	1.96	0.48
11:R0:324:ARG:HG2	11:R0:328:GLU:HG3	1.96	0.48
11:R1:327:VAL:HG11	11:R2:221:PHE:CD1	2.48	0.48
9:RD:262:ARG:HH21	9:RD:418:LEU:HD13	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RG:339:ARG:O	8:RG:339:ARG:NE	2.46	0.48
8:RK:326:LYS:HD3	9:RL:212:PHE:CE1	2.48	0.48
9:RL:1:MET:HE2	9:RL:46:ARG:HD2	1.95	0.48
9:RN:26:ASP:O	9:RN:359:ARG:NH1	2.47	0.48
12:S0:269:ASP:HA	12:S0:272:GLN:HG3	1.94	0.48
12:S1:466:LEU:HB3	14:T0:7:LEU:HD11	1.94	0.48
12:S7:410:GLU:OE2	12:S7:410:GLU:N	2.31	0.48
12:S8:173:ALA:O	12:S8:177:ILE:HG13	2.13	0.48
9:SD:146:GLY:O	9:SD:149:THR:OG1	2.27	0.48
8:SG:132:LEU:O	8:SG:164:LYS:NZ	2.35	0.48
9:SH:2:ARG:NH1	9:SH:249:ASP:OD2	2.46	0.48
8:SK:54:SER:HB3	8:SK:64:ARG:CZ	2.44	0.48
14:T2:437:TYR:CE2	14:T2:441:LEU:HB3	2.48	0.48
14:T4:257:TRP:O	14:T4:261:ASN:ND2	2.47	0.48
8:TA:252:LEU:HA	8:TA:255:PHE:CE1	2.49	0.48
9:TB:270:PHE:HB3	9:TB:273:LEU:HD21	1.94	0.48
8:TC:284:GLU:N	8:TC:284:GLU:OE2	2.47	0.48
9:TH:31:ASP:OD1	9:TH:35:THR:N	2.46	0.48
9:TJ:198:GLU:HB2	9:TJ:266:PHE:CE1	2.45	0.48
30:U6:284:GLU:HG2	30:U7:417:VAL:HG13	1.96	0.48
8:UA:228:ASN:HA	8:UA:231:ILE:HG22	1.94	0.48
9:UD:313:VAL:HB	9:UD:349:VAL:HG22	1.95	0.48
9:UH:122:LYS:HD3	9:UH:123:GLU:HG2	1.95	0.48
8:UI:20:CYS:HB3	8:UI:24:TYR:CZ	2.49	0.48
8:UI:188:ILE:O	8:UI:191:THR:OG1	2.23	0.48
8:UK:224:TYR:HE2	50:UK:501:GTP:C4	2.32	0.48
30:V0:396:LEU:O	30:V0:400:THR:HG23	2.12	0.48
30:V0:416:LEU:O	30:V0:420:VAL:HG23	2.13	0.48
30:V1:367:GLU:HA	30:V1:370:GLN:HB2	1.94	0.48
30:V3:209:ASP:OD1	30:V3:209:ASP:N	2.45	0.48
30:V8:332:MET:HE1	30:V8:480:PRO:HD3	1.94	0.48
8:VC:188:ILE:O	8:VC:191:THR:OG1	2.31	0.48
8:VC:372:GLN:HE22	39:a:315:ILE:HD11	1.76	0.48
8:VE:17:GLY:HA2	8:VE:20:CYS:SG	2.53	0.48
8:VE:352:LYS:HZ3	9:VF:178:THR:HA	1.77	0.48
8:VE:372:GLN:OE1	39:a:254:ARG:NH2	2.47	0.48
9:VF:249:ASP:OD1	9:VF:252:LYS:N	2.40	0.48
30:W2:402:ARG:HH22	30:W2:409:ARG:CA	2.26	0.48
30:W4:201:ARG:NE	30:W4:205:ASP:O	2.40	0.48
9:WB:218:THR:OG1	9:WB:219:THR:N	2.47	0.48
8:WC:147:SER:OG	8:WC:190:THR:OG1	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WG:119:LEU:HD12	8:WG:156:ARG:HH21	1.77	0.48
8:WI:239:THR:OG1	8:WI:243:ARG:NH1	2.46	0.48
8:WK:324:VAL:HG12	8:WK:326:LYS:H	1.79	0.48
9:WP:273:LEU:O	9:WP:292:GLN:NE2	2.46	0.48
34:X6:239:ARG:HB2	34:X6:266:TRP:HB2	1.94	0.48
34:X8:90:MET:SD	34:X8:91:GLU:N	2.86	0.48
35:XA:179:ALA:O	35:XA:180:GLU:C	2.56	0.48
35:XF:89:PHE:HB3	35:XF:156:ILE:HD13	1.95	0.48
37:YB:57:ARG:NH2	37:YB:102:GLU:OE2	2.46	0.48
31:Z:659:ARG:HE	31:Z:663:LYS:HE3	1.77	0.48
17:Z3:234:MET:HA	17:Z3:234:MET:HE3	1.94	0.48
39:a:147:LYS:HA	39:a:147:LYS:HE3	1.95	0.48
41:b3:372:TYR:HD1	41:b3:375:ARG:HH12	1.62	0.48
44:h2:53:PRO:HD2	44:h2:89:PHE:CD1	2.49	0.48
4:j1:168:LEU:O	4:j1:172:ILE:HG22	2.12	0.48
47:p:184:LYS:O	47:p:188:GLU:HG2	2.14	0.48
2:1:533:THR:HG1	8:IE:370:LYS:HZ2	1.59	0.48
9:AJ:4:ILE:HA	9:AJ:132:GLY:O	2.13	0.48
9:AJ:86:ARG:HG2	9:AJ:88:ASP:H	1.78	0.48
8:AM:283:HIS:CD2	8:MM:60:LYS:NZ	2.82	0.48
9:AN:152:ILE:HA	9:AN:155:ILE:HG12	1.95	0.48
9:AP:69:GLU:HG3	9:AP:71:GLY:H	1.77	0.48
11:B1:202:LYS:HB2	11:B1:205:PRO:HB3	1.95	0.48
11:B2:385:LEU:HD22	12:S2:50:TRP:CZ3	2.49	0.48
8:BE:326:LYS:HD3	9:BF:212:PHE:HE1	1.79	0.48
9:BJ:296:ALA:H	9:BJ:306:ARG:NH2	2.12	0.48
8:BO:298:PRO:HG3	8:BO:308:ARG:HE	1.77	0.48
10:C:303:MET:O	10:C:307:GLU:HG3	2.14	0.48
12:C0:281:VAL:HG12	12:C1:394:LYS:HB3	1.95	0.48
8:CC:116:ASP:N	8:CC:116:ASP:OD1	2.44	0.48
9:CD:122:LYS:O	9:CD:126:SER:OG	2.30	0.48
9:CD:286:VAL:CG2	9:CD:321:MET:HE2	2.42	0.48
9:CD:344:TRP:CD1	9:CD:344:TRP:H	2.31	0.48
8:CE:259:LEU:HD21	8:CE:268:PRO:HG2	1.96	0.48
9:CL:208:TYR:CE1	9:CL:225:LEU:HD11	2.49	0.48
8:CM:330:ALA:O	8:CM:334:THR:HG22	2.14	0.48
9:CP:284:LEU:HD21	9:CP:363:MET:HG3	1.96	0.48
14:D1:396:GLN:NE2	12:S3:53:ASN:OD1	2.45	0.48
14:D3:294:ARG:HG3	14:D3:440:VAL:HG22	1.94	0.48
9:DB:18:ALA:O	9:DB:22:GLU:HG3	2.13	0.48
8:DC:88:HIS:CE1	8:DC:90:GLU:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DC:392:ASP:OD1	8:DC:425:LEU:HD11	2.13	0.48
9:DD:182:PRO:HG3	9:DD:384:GLN:HE22	1.79	0.48
9:DJ:5:VAL:HG22	9:DJ:62:ARG:HD2	1.95	0.48
9:DJ:28:HIS:ND1	9:DJ:43:GLN:O	2.38	0.48
8:DK:85:GLN:NE2	17:L:59:MET:SD	2.81	0.48
9:EB:2:ARG:HD2	9:EB:240:LEU:HD11	1.96	0.48
9:EB:345:ILE:HG23	8:EC:398:MET:HE1	1.95	0.48
9:EB:375:GLN:NE2	9:EB:423:GLN:OE1	2.38	0.48
8:EC:6:SER:HA	8:EC:136:LEU:HD12	1.95	0.48
9:EL:150:LEU:HG	9:EL:154:LYS:HE2	1.94	0.48
9:EL:236:VAL:HG13	9:EL:237:THR:HG23	1.96	0.48
8:EM:326:LYS:HA	8:EM:326:LYS:HD2	1.56	0.48
9:EN:246:LEU:HD11	8:EO:224:TYR:HE1	1.78	0.48
9:EN:427:ASP:OD1	9:EN:427:ASP:N	2.36	0.48
8:FA:213:CYS:HA	8:FA:217:LEU:HD12	1.95	0.48
8:FE:123:ARG:NH1	36:Y2:215:LYS:HG3	2.28	0.48
8:FE:188:ILE:O	8:FE:191:THR:OG1	2.30	0.48
9:FN:324:LYS:HD3	8:FO:210:TYR:CG	2.49	0.48
16:G:108:ASP:OD1	16:G:108:ASP:N	2.46	0.48
8:GA:321:GLY:HA3	8:GA:373:ARG:HA	1.95	0.48
9:GB:106:TYR:CD2	9:GB:403:MET:HE2	2.48	0.48
9:GF:130:LEU:O	9:GF:162:ARG:NH2	2.47	0.48
8:GG:209:ILE:HG12	8:GG:302:MET:HE3	1.94	0.48
8:GG:239:THR:HB	8:GG:243:ARG:HH21	1.78	0.48
9:GH:253:LEU:O	9:GH:257:MET:N	2.45	0.48
9:GH:293:MET:SD	9:GH:367:PHE:HB2	2.54	0.48
9:GJ:184:ASN:OD1	9:GJ:398:TYR:OH	2.27	0.48
9:GJ:415:MET:HE2	9:GJ:415:MET:HB3	1.75	0.48
8:GK:211:ASP:O	8:GK:215:ARG:HB2	2.13	0.48
8:GM:118:VAL:O	8:GM:122:ILE:HG22	2.13	0.48
8:GM:201:ALA:O	8:GM:268:PRO:HD2	2.13	0.48
8:GM:364:PRO:HG2	26:P2:86:TRP:CE2	2.49	0.48
8:HE:315:CYS:SG	8:HE:317:MET:HE1	2.54	0.48
9:HH:372:THR:HA	9:HH:422:TYR:CE1	2.47	0.48
9:HJ:8:GLN:HE21	9:HJ:14:ASN:HA	1.77	0.48
9:HJ:267:MET:HE1	9:HJ:371:SER:HB3	1.96	0.48
8:IA:217:LEU:HD21	8:IA:275:VAL:HB	1.95	0.48
8:IA:297:GLU:OE2	8:IA:300:ASN:ND2	2.46	0.48
8:IC:22:GLU:OE1	8:IC:83:TYR:OH	2.28	0.48
8:IC:393:HIS:O	8:IC:397:LEU:HG	2.13	0.48
8:IK:214:ARG:NH1	8:IK:220:GLU:O	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J1:176:SER:HB2	9:OB:219:THR:HG23	1.93	0.48
8:JO:313:MET:HE3	8:JO:346:TRP:HZ2	1.79	0.48
8:JQ:11:GLN:NE2	50:JQ:501:GTP:O1B	2.35	0.48
8:JQ:102:ASN:HB3	8:JQ:105:ARG:HB2	1.96	0.48
8:KC:183:GLU:HG3	8:KC:184:PRO:HD3	1.96	0.48
8:KE:49:PHE:HB2	8:KE:53:PHE:HD2	1.78	0.48
9:KL:330:MET:HE1	9:KL:351:THR:OG1	2.14	0.48
8:KO:191:THR:HA	8:KO:194:THR:HG22	1.96	0.48
8:KO:298:PRO:HB3	8:KO:307:PRO:HD2	1.95	0.48
9:KP:358:PRO:HG2	9:KP:361:LEU:HB3	1.94	0.48
17:L:58:PRO:O	17:L:59:MET:HG2	2.14	0.48
17:L:298:LEU:HD22	17:L:302:ASN:HB2	1.94	0.48
21:L1:141:ILE:HD12	21:L1:141:ILE:H	1.79	0.48
9:LF:386:THR:HG23	43:i:97:MET:HE1	1.96	0.48
8:LO:90:GLU:HA	43:k:129:ARG:CZ	2.43	0.48
8:LO:329:ASN:HB3	9:LP:175:VAL:HG21	1.95	0.48
9:MD:396:HIS:HA	9:MD:399:THR:HG22	1.95	0.48
8:MI:7:ILE:HG23	8:MI:122:ILE:HD11	1.95	0.48
15:N2:230:ALA:O	15:N2:251:ALA:HA	2.14	0.48
9:NB:223:GLY:O	9:NB:227:HIS:N	2.47	0.48
8:NC:288:VAL:HG23	8:NC:373:ARG:HH11	1.78	0.48
8:NE:51:THR:HG21	8:NE:243:ARG:HG2	1.94	0.48
8:NG:276:ILE:HD13	8:NG:281:ALA:HB2	1.95	0.48
9:NH:21:TRP:CZ2	9:NH:63:ALA:HB2	2.49	0.48
9:NH:97:ALA:HA	9:NH:103:LYS:HE2	1.95	0.48
9:NJ:16:ILE:HA	9:NJ:226:ASN:HD21	1.78	0.48
8:NK:57:GLY:N	8:OK:285:GLN:HG3	2.28	0.48
8:NM:227:LEU:HD21	50:NM:501:GTP:HN21	1.78	0.48
8:NM:288:VAL:O	8:NM:292:THR:HG22	2.13	0.48
9:NN:325:GLU:HB2	8:NO:221:ARG:NH1	2.29	0.48
9:NP:8:GLN:HE21	9:NP:14:ASN:HA	1.79	0.48
9:NP:299:MET:H	9:NP:299:MET:CE	2.26	0.48
9:OB:144:GLY:N	52:OB:502:GDP:O1B	2.29	0.48
9:OH:20:PHE:CE2	9:OH:233:MET:HE2	2.48	0.48
9:OH:150:LEU:HG	9:OH:154:LYS:HE2	1.96	0.48
8:OK:121:ARG:HH21	8:OK:125:LEU:HG	1.78	0.48
8:OK:172:TYR:N	8:OK:204:VAL:O	2.43	0.48
8:OK:319:TYR:HB3	8:OK:323:VAL:HG11	1.94	0.48
8:OO:345:ASP:N	8:OO:345:ASP:OD1	2.46	0.48
8:PC:331:ALA:O	8:PC:335:ILE:HG12	2.13	0.48
9:PD:344:TRP:H	9:PD:344:TRP:CD1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PI:20:CYS:SG	8:PI:21:TRP:N	2.85	0.48
8:PK:64:ARG:HG2	8:PK:125:LEU:HD11	1.96	0.48
8:PK:223:THR:HG22	8:PK:225:THR:H	1.79	0.48
9:PL:247:ASN:O	9:PL:252:LYS:NZ	2.46	0.48
8:QE:404:PHE:CD1	8:QE:407:TRP:CD1	3.01	0.48
8:QG:319:TYR:HB3	8:QG:323:VAL:HG21	1.96	0.48
9:QL:222:TYR:CE1	9:QL:225:LEU:HD22	2.49	0.48
8:QO:166:LYS:N	8:QO:199:ASP:OD2	2.42	0.48
11:R3:341:GLU:HG2	11:R4:56:ASP:OD2	2.14	0.48
9:RF:361:LEU:HD12	9:RF:362:LYS:H	1.79	0.48
8:RG:167:LEU:HD11	8:RG:256:GLN:HE21	1.78	0.48
9:RJ:372:THR:HG21	9:RJ:426:GLN:HB2	1.96	0.48
12:S3:467:TYR:CD1	14:T2:9:THR:HB	2.47	0.48
9:SD:1:MET:SD	9:SD:2:ARG:HG3	2.52	0.48
9:SD:324:LYS:HB3	8:SE:221:ARG:HH21	1.78	0.48
8:SE:9:VAL:HB	8:SE:139:HIS:HB3	1.96	0.48
8:SE:316:CYS:HB2	8:SE:378:LEU:HB2	1.95	0.48
8:SG:108:TYR:HA	8:SG:112:LYS:HE3	1.96	0.48
8:SI:429:GLU:O	8:SI:433:GLU:HG2	2.13	0.48
9:SL:173:PRO:HG3	9:SL:380:ARG:HE	1.79	0.48
14:T0:61:TYR:HA	14:T0:64:TYR:CD1	2.49	0.48
14:T2:243:HIS:O	14:T2:243:HIS:CG	2.67	0.48
9:TB:7:LEU:N	9:TB:134:GLN:O	2.43	0.48
8:TE:269:LEU:HD22	8:TE:303:VAL:HG21	1.96	0.48
9:TH:51:TYR:HB3	9:TH:59:TYR:HB3	1.96	0.48
8:TK:286:LEU:O	8:TK:373:ARG:NH1	2.46	0.48
9:TL:6:HIS:CG	9:TL:21:TRP:HZ2	2.31	0.48
8:TM:311:LYS:H	8:TM:382:THR:HG22	1.78	0.48
9:TN:407:GLU:HA	9:TN:410:GLU:HG2	1.95	0.48
30:U1:253:ASP:OD1	30:U1:257:LYS:NZ	2.46	0.48
30:U1:268:PHE:O	30:U1:271:ARG:NH1	2.45	0.48
30:U2:293:PRO:HA	30:U2:296:TRP:HB3	1.96	0.48
30:U7:304:ILE:O	30:U7:308:GLN:N	2.46	0.48
30:U8:380:ARG:HH21	30:W0:305:ARG:HD3	1.78	0.48
30:U8:396:LEU:HD13	30:U8:416:LEU:HD22	1.95	0.48
9:UB:152:ILE:HA	9:UB:155:ILE:HG12	1.94	0.48
9:UJ:25:SER:OG	9:UJ:51:TYR:OH	2.24	0.48
9:UJ:372:THR:HA	9:UJ:422:TYR:CE1	2.48	0.48
8:UK:313:MET:N	8:UK:313:MET:SD	2.87	0.48
8:UM:264:ARG:NH1	8:UM:431:ASP:OD2	2.47	0.48
30:V4:229:MET:SD	30:V4:230:ARG:HD2	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V7:328:LEU:HB3	30:V7:332:MET:HE1	1.96	0.48
9:VB:344:TRP:H	9:VB:344:TRP:CD1	2.31	0.48
8:VC:311:LYS:H	8:VC:382:THR:HG22	1.78	0.48
8:VE:316:CYS:C	8:VE:317:MET:HE2	2.38	0.48
8:VG:104:ALA:HB1	8:VG:411:GLU:CD	2.39	0.48
8:VG:297:GLU:O	8:VG:301:GLN:NE2	2.39	0.48
9:VJ:273:LEU:O	9:VJ:292:GLN:NE2	2.46	0.48
8:VK:179:THR:OG1	50:VK:501:GTP:O3'	2.24	0.48
8:VO:210:TYR:HE1	8:VO:227:LEU:HD11	1.79	0.48
8:WA:127:ASP:HA	37:YA:69:LEU:HD23	1.95	0.48
8:WA:381:THR:OG1	8:WA:382:THR:N	2.47	0.48
9:WB:257:MET:HB3	9:WB:266:PHE:CZ	2.48	0.48
8:WC:164:LYS:HG2	37:YB:71:HIS:CE1	2.48	0.48
9:WD:170:VAL:HG21	9:WD:201:CYS:HB2	1.95	0.48
9:WD:323:MET:HA	9:WD:326:VAL:HG22	1.95	0.48
9:WF:1:MET:SD	9:WF:2:ARG:N	2.86	0.48
9:WH:73:MET:HE3	9:WH:92:PHE:HB3	1.96	0.48
9:WL:325:GLU:HG3	8:WM:221:ARG:NH2	2.29	0.48
9:WN:305:PRO:HA	9:WN:373:ALA:HB2	1.96	0.48
8:WO:21:TRP:HA	8:WO:24:TYR:CD1	2.49	0.48
8:WO:79:ARG:HH21	8:WO:94:THR:HG23	1.78	0.48
31:X:458:LEU:HD11	31:X:532:TYR:HE1	1.78	0.48
31:X:652:VAL:HB	31:X:687:GLN:HB3	1.94	0.48
34:X6:200:VAL:HG13	34:X6:210:MET:HE1	1.96	0.48
34:X6:239:ARG:HD2	34:X6:266:TRP:HB2	1.94	0.48
35:XB:140:THR:HB	35:XB:146:THR:HG23	1.96	0.48
41:b1:422:LEU:HD12	41:b2:110:PRO:HG3	1.96	0.48
39:d:409:ASN:O	39:d:413:LYS:HG2	2.13	0.48
42:e:316:ARG:HH21	42:e:325:THR:HG21	1.79	0.48
42:e:374:ASN:HD22	48:q:137:SER:HA	1.78	0.48
46:i3:1336:ILE:HG12	46:i3:1400:ILE:CG2	2.42	0.48
48:s:66:ILE:HD12	48:s:67:PRO:HD2	1.95	0.48
3:3:230:THR:HG21	8:GI:372:GLN:HE21	1.79	0.48
4:6:261:CYS:HB3	4:6:329:ILE:HB	1.94	0.48
9:AB:324:LYS:O	9:AB:328:GLU:HG3	2.13	0.48
9:AD:325:GLU:N	9:AD:325:GLU:OE2	2.46	0.48
8:AE:81:GLY:HA3	33:X4:179:TYR:HE2	1.77	0.48
8:AK:57:GLY:H	8:BK:285:GLN:HE21	1.61	0.48
9:AL:282:ARG:NH2	9:AL:288:GLU:OE2	2.34	0.48
10:B:268:ARG:NH2	10:B:272:GLU:OE1	2.47	0.48
11:B2:115:GLU:HB2	14:D2:414:LYS:NZ	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BC:298:PRO:HA	8:BC:301:GLN:HG2	1.95	0.48
9:BD:323:MET:HA	9:BD:326:VAL:HB	1.95	0.48
9:BF:319:GLY:HA2	9:BF:357:PRO:HG3	1.95	0.48
8:BG:311:LYS:H	8:BG:382:THR:HG22	1.78	0.48
9:BP:86:ARG:HD3	9:CP:281:TYR:HB3	1.94	0.48
9:BP:236:VAL:HG23	9:BP:237:THR:HG23	1.96	0.48
10:C:430:LEU:O	10:C:434:GLN:HG2	2.14	0.48
9:CH:289:LEU:HD11	9:CH:363:MET:HG2	1.94	0.48
9:CJ:45:GLU:N	9:CJ:45:GLU:OE1	2.45	0.48
9:CJ:344:TRP:H	9:CJ:344:TRP:CD1	2.32	0.48
9:CL:320:ARG:NH1	27:P6:18:GLN:O	2.46	0.48
8:CM:44:GLY:O	25:O5:276:ARG:NH1	2.44	0.48
8:CO:25:CYS:O	8:CO:30:ILE:N	2.45	0.48
9:CP:278:SER:HA	9:CP:281:TYR:HD2	1.78	0.48
8:CQ:25:CYS:O	8:CQ:30:ILE:N	2.40	0.48
14:D0:25:LYS:O	14:D0:29:VAL:HG22	2.13	0.48
14:D1:214:ASN:O	14:D1:218:LYS:HG2	2.14	0.48
14:D2:300:VAL:CG1	14:D2:434:ARG:HH12	2.26	0.48
8:DG:153:LEU:HD12	8:DG:154:MET:N	2.29	0.48
8:DG:279:GLU:HG2	40:a2:127:THR:HG21	1.94	0.48
9:DL:113:VAL:HG11	9:DL:150:LEU:HD23	1.96	0.48
9:DN:237:THR:HG22	9:DN:250:LEU:HD21	1.96	0.48
9:EB:44:LEU:HG	17:Z2:224:PHE:HZ	1.79	0.48
9:EB:70:PRO:HB3	9:EB:92:PHE:CD2	2.49	0.48
9:EB:358:PRO:HG2	9:EB:361:LEU:HB3	1.95	0.48
8:EC:150:ALA:O	8:EC:154:MET:HG3	2.13	0.48
8:EE:209:ILE:HD12	8:EE:209:ILE:H	1.79	0.48
8:EG:188:ILE:O	8:EG:191:THR:OG1	2.29	0.48
9:EJ:218:THR:OG1	31:Y:413:PRO:HD3	2.13	0.48
9:EJ:309:ARG:NH2	9:EJ:339:SER:O	2.47	0.48
8:EK:98:ASP:O	8:EK:105:ARG:NH1	2.47	0.48
15:F:56:LEU:HB2	15:F:272:GLY:HA3	1.95	0.48
8:FA:257:THR:HG21	9:FB:100:ASN:HB2	1.96	0.48
8:FC:298:PRO:HA	8:FC:301:GLN:HG2	1.94	0.48
9:FD:309:ARG:NH2	9:FD:339:SER:O	2.46	0.48
9:FN:2:ARG:HB3	9:FN:131:GLN:HB2	1.94	0.48
9:FN:237:THR:HG23	9:FN:241:ARG:HH21	1.77	0.48
9:GD:198:GLU:HG3	9:GD:266:PHE:HE1	1.79	0.48
8:GE:269:LEU:HD21	8:GE:384:ILE:HD12	1.96	0.48
8:GG:149:PHE:CD1	8:GG:152:LEU:HD11	2.49	0.48
8:GG:191:THR:HA	8:GG:194:THR:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GI:22:GLU:OE1	8:GI:83:TYR:OH	2.30	0.48
9:GL:360:GLY:HA2	26:P2:11:TYR:O	2.14	0.48
8:GM:241:SER:HB2	8:GM:250:VAL:H	1.79	0.48
9:GN:294:PHE:HZ	9:GN:330:MET:HE1	1.79	0.48
8:GO:46:ASP:N	8:GO:46:ASP:OD2	2.44	0.48
9:HD:7:LEU:HG	9:HD:135:LEU:HD13	1.94	0.48
8:HG:2:ARG:NH2	9:HH:71:GLY:HA3	2.29	0.48
8:HG:88:HIS:CE1	8:IG:284:GLU:HG2	2.49	0.48
8:HM:219:ILE:HD12	8:HM:222:PRO:HG3	1.96	0.48
8:HM:332:ILE:O	8:HM:336:LYS:HG2	2.14	0.48
9:HN:344:TRP:HZ3	8:HO:401:LYS:HG2	1.79	0.48
9:IB:306:ARG:NH2	36:Y0:55:GLY:N	2.61	0.48
8:IG:169:PHE:CE1	8:IG:235:VAL:HG22	2.48	0.48
9:IH:330:MET:N	9:IH:330:MET:SD	2.87	0.48
9:IH:375:GLN:HA	9:IH:378:PHE:HD2	1.79	0.48
9:IJ:24:ILE:HA	9:IJ:27:GLU:HG3	1.96	0.48
8:IK:21:TRP:CZ2	8:IK:65:ALA:HB2	2.49	0.48
9:IL:32:PRO:O	9:IL:83:GLN:NE2	2.47	0.48
9:IL:327:ASP:O	9:IL:331:LEU:N	2.27	0.48
8:IO:258:ASN:ND2	9:IP:179:VAL:H	2.11	0.48
19:J2:187:TYR:CZ	9:OF:279:GLN:HG3	2.48	0.48
8:JC:390:ARG:O	8:JC:394:LYS:HG2	2.14	0.48
8:JE:21:TRP:CZ3	8:JE:63:PRO:HB3	2.48	0.48
9:JF:182:PRO:O	9:JF:186:THR:OG1	2.21	0.48
9:JH:7:LEU:HB2	9:JH:135:LEU:HB2	1.95	0.48
8:JI:262:TYR:HB2	8:JI:265:ILE:HG22	1.96	0.48
8:JM:51:THR:HG21	8:JM:243:ARG:HG2	1.96	0.48
8:JM:262:TYR:OH	9:JN:391:ARG:O	2.32	0.48
8:KA:414:GLU:OE1	8:KA:414:GLU:N	2.38	0.48
8:KG:138:PHE:CD1	8:KG:169:PHE:HB3	2.49	0.48
8:KG:167:LEU:HD21	8:KG:255:PHE:HZ	1.79	0.48
8:KG:371:VAL:HG22	8:KG:373:ARG:H	1.77	0.48
9:KJ:327:ASP:N	9:KJ:327:ASP:OD1	2.46	0.48
9:KN:146:GLY:O	9:KN:149:THR:OG1	2.26	0.48
8:KO:167:LEU:HD13	8:KO:200:CYS:HB3	1.95	0.48
17:L:221:TYR:HB3	17:L:236:TYR:OH	2.13	0.48
8:LC:251:ASP:HB2	8:LC:254:GLU:HG3	1.96	0.48
8:LC:264:ARG:NH2	8:LC:424:ASP:OD1	2.46	0.48
9:LJ:327:ASP:HB3	8:LK:177:VAL:HG21	1.95	0.48
9:LN:375:GLN:HA	9:LN:378:PHE:HD2	1.78	0.48
9:MD:92:PHE:H	31:W:33:ARG:NH1	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MF:143:THR:HG23	9:MF:147:MET:HE2	1.95	0.48
8:MG:280:LYS:O	8:MG:284:GLU:HG3	2.13	0.48
9:MJ:2:ARG:HA	9:MJ:131:GLN:NE2	2.29	0.48
9:MJ:10:GLY:O	9:MJ:14:ASN:ND2	2.45	0.48
9:MJ:143:THR:HG1	9:MJ:144:GLY:H	1.62	0.48
8:MK:2:ARG:C	8:MK:3:GLU:HG3	2.38	0.48
8:MK:27:GLU:HG2	8:MK:243:ARG:HH21	1.78	0.48
9:ML:347:ASN:ND2	8:MM:178:SER:HB2	2.28	0.48
9:NB:211:CYS:HA	9:NB:215:LEU:HB2	1.96	0.48
9:ND:198:GLU:HB2	9:ND:266:PHE:HE2	1.78	0.48
9:NF:13:GLY:HA2	9:NF:16:ILE:HG12	1.96	0.48
9:NF:31:ASP:C	9:NF:81:PHE:HE2	2.21	0.48
9:NF:184:ASN:O	9:NF:188:SER:OG	2.22	0.48
8:NK:119:LEU:HD21	8:NK:156:ARG:NH2	2.29	0.48
24:O2:176:PRO:HB2	24:O2:178:ILE:HG22	1.95	0.48
9:OB:286:VAL:HG11	9:OB:321:MET:HE1	1.95	0.48
8:OE:121:ARG:HA	8:OE:124:LYS:HE3	1.96	0.48
8:OE:214:ARG:HE	36:Y4:155:LYS:NZ	2.10	0.48
8:OK:386:GLU:N	8:OK:386:GLU:OE1	2.45	0.48
9:OP:156:ARG:NH1	9:OP:197:ASP:OD1	2.39	0.48
9:PB:237:THR:HG22	9:PB:250:LEU:HD21	1.94	0.48
8:PC:88:HIS:CD2	8:PC:90:GLU:HB3	2.49	0.48
9:PN:290:THR:HG21	9:PN:329:GLN:HB3	1.95	0.48
9:PN:305:PRO:HA	9:PN:373:ALA:HB2	1.95	0.48
9:PP:325:GLU:O	9:PP:329:GLN:NE2	2.36	0.48
8:QK:320:ARG:HD3	8:QK:360:PRO:HG3	1.95	0.48
8:QM:14:VAL:HG21	8:QM:75:VAL:HG22	1.95	0.48
8:QM:184:PRO:O	8:QM:188:ILE:HG12	2.14	0.48
11:R0:272:MET:HA	11:R0:272:MET:HE3	1.96	0.48
9:RD:165:ASN:HB3	9:RD:200:TYR:HE2	1.78	0.48
8:RG:60:LYS:NZ	8:SE:282:TYR:O	2.37	0.48
8:RG:108:TYR:CD2	8:RG:413:MET:HE2	2.48	0.48
8:RK:313:MET:HG3	8:RK:346:TRP:HH2	1.78	0.48
9:RL:256:ASN:HD22	8:RM:182:VAL:HG22	1.79	0.48
8:RM:36:MET:HG2	8:RM:61:HIS:NE2	2.28	0.48
8:RM:319:TYR:HE2	8:RM:353:VAL:HG13	1.78	0.48
9:RP:289:LEU:HD11	9:RP:363:MET:HB3	1.95	0.48
12:S0:138:THR:HG22	12:S1:423:GLU:OE2	2.14	0.48
12:S3:71:ARG:HH11	12:S4:234:ARG:HH12	1.61	0.48
12:S8:322:ARG:O	12:S8:326:GLU:HG2	2.13	0.48
12:S9:373:PHE:HZ	14:T0:42:ALA:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SA:241:SER:OG	8:SA:250:VAL:O	2.24	0.48
8:SC:3:GLU:HA	8:SC:51:THR:HA	1.95	0.48
8:SK:324:VAL:HG12	8:SK:326:LYS:H	1.78	0.48
9:SN:230:SER:HA	9:SN:233:MET:HG2	1.95	0.48
14:T0:71:ARG:HH22	14:T1:324:LYS:C	2.22	0.48
14:T1:157:GLN:O	14:T1:161:ARG:NH2	2.46	0.48
14:T2:434:ARG:HE	30:U3:125:GLN:CG	2.27	0.48
14:T5:321:HIS:O	14:T5:325:THR:OG1	2.27	0.48
9:TF:197:ASP:HB2	9:TF:198:GLU:OE2	2.13	0.48
9:TH:267:MET:CE	9:TH:367:PHE:HE2	2.27	0.48
8:TI:259:LEU:HD22	8:TI:316:CYS:SG	2.54	0.48
8:TK:425:LEU:HA	8:TK:428:LEU:HD23	1.95	0.48
25:U:474:LYS:HE2	25:U:499:PHE:HA	1.96	0.48
30:U8:470:MET:HE3	30:U8:470:MET:HA	1.96	0.48
30:U9:353:VAL:O	30:U9:357:LEU:HD13	2.14	0.48
8:UA:202:PHE:HE1	8:UA:268:PRO:HB2	1.78	0.48
8:UC:1:MET:SD	8:UC:2:ARG:N	2.87	0.48
8:UC:219:ILE:HG23	8:UC:222:PRO:HG3	1.94	0.48
8:UC:370:LYS:H	39:c:427:GLN:HE22	1.60	0.48
9:UF:5:VAL:HB	9:UF:133:PHE:HD1	1.79	0.48
8:UK:408:TYR:HB3	8:UK:413:MET:SD	2.53	0.48
9:UL:293:MET:SD	9:UL:367:PHE:HB2	2.54	0.48
8:UM:206:ASN:HB3	8:UM:210:TYR:CZ	2.47	0.48
30:V3:283:VAL:HA	30:V3:286:PHE:HB2	1.95	0.48
30:V4:328:LEU:HA	30:V4:331:GLN:OE1	2.13	0.48
30:V6:272:SER:HA	30:V7:391:MET:HE3	1.95	0.48
8:VC:298:PRO:HA	8:VC:301:GLN:HG2	1.94	0.48
9:VF:87:PRO:HA	9:VF:90:PHE:CD1	2.49	0.48
9:VH:273:LEU:O	9:VH:292:GLN:NE2	2.46	0.48
8:VI:7:ILE:O	8:VI:9:VAL:HG23	2.14	0.48
8:VK:88:HIS:N	8:VK:91:GLN:OE1	2.46	0.48
9:VL:344:TRP:H	9:VL:344:TRP:CD1	2.31	0.48
9:WB:111:GLU:OE1	37:YA:74:LYS:HD2	2.13	0.48
9:WH:252:LYS:NZ	50:WI:501:GTP:O3G	2.46	0.48
9:WJ:215:LEU:HB3	9:WJ:217:LEU:HG	1.96	0.48
9:WL:325:GLU:H	8:WM:221:ARG:HH22	1.60	0.48
9:WN:69:GLU:HG2	9:WN:71:GLY:H	1.77	0.48
34:X7:20:GLU:N	34:X7:20:GLU:OE1	2.47	0.48
34:X7:135:ASP:OD2	34:X7:140:ASN:ND2	2.46	0.48
35:XD:155:GLN:OE1	35:XD:157:HIS:NE2	2.46	0.48
31:Z:31:ASN:O	31:Z:31:ASN:ND2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:a6:111:ARG:HA	39:a6:114:TRP:CE2	2.48	0.48
39:c:198:ILE:O	39:c:202:LYS:HG2	2.13	0.48
42:e:231:LYS:HB3	42:e:241:ASP:HB3	1.94	0.48
43:i:251:TYR:CD1	47:o:41:ILE:HD13	2.48	0.48
47:o:184:LYS:O	47:o:188:GLU:HG2	2.14	0.48
4:6:99:ASP:HB3	8:IK:41:THR:HG22	1.95	0.48
7:A1:361:GLN:CD	7:A2:33:GLN:HE21	2.20	0.48
7:A2:331:ASP:OD1	7:A2:331:ASP:N	2.39	0.48
7:A5:161:ILE:O	7:A5:165:ARG:HG2	2.14	0.48
8:AA:42:ILE:HD13	25:T:98:LYS:HE3	1.93	0.48
9:AD:113:VAL:HG11	9:AD:150:LEU:HD23	1.96	0.48
9:AD:324:LYS:HZ3	8:AE:214:ARG:HB2	1.78	0.48
8:AI:60:LYS:HG3	8:BI:283:HIS:HA	1.95	0.48
8:AO:168:GLU:O	8:AO:201:ALA:HA	2.13	0.48
10:B:238:LYS:O	10:B:242:GLN:NE2	2.47	0.48
11:B2:123:ARG:HB3	11:B2:127:ASP:OD1	2.13	0.48
11:B4:197:PRO:HB3	28:Q4:147:LYS:HG2	1.96	0.48
8:BM:234:ILE:HD11	8:BM:272:TYR:HB2	1.96	0.48
9:BN:162:ARG:HH11	9:BN:162:ARG:HG2	1.78	0.48
12:C1:156:TRP:HB3	12:C1:261:LYS:HE3	1.95	0.48
12:C1:391:ALA:O	12:C1:394:LYS:HB2	2.13	0.48
8:CE:286:LEU:O	8:CE:373:ARG:NH1	2.46	0.48
9:CF:310:TYR:CD2	9:CF:371:SER:HB2	2.49	0.48
9:CL:310:TYR:HD1	9:CL:371:SER:HB2	1.79	0.48
8:CM:219:ILE:HG22	17:M:299:THR:HA	1.96	0.48
9:CN:117:LEU:HA	9:CN:120:VAL:HG12	1.94	0.48
9:CN:128:ASP:OD1	9:CN:129:CYS:N	2.47	0.48
8:CQ:88:HIS:NE2	8:DQ:284:GLU:HG2	2.29	0.48
14:D2:93:GLN:HB3	25:V:53:HIS:NE2	2.28	0.48
14:D3:341:GLN:OE1	14:D3:344:LYS:HE2	2.14	0.48
9:DH:150:LEU:HG	9:DH:154:LYS:HE2	1.95	0.48
8:DK:58:ALA:HA	31:Y:418:PHE:CD2	2.48	0.48
9:DP:164:MET:HE2	9:DP:164:MET:HA	1.96	0.48
15:E:26:MET:HE2	15:E:26:MET:HA	1.95	0.48
8:EE:133:GLN:HB3	8:EE:252:LEU:HD13	1.95	0.48
8:EG:320:ARG:HE	8:EG:358:GLN:HE22	1.60	0.48
9:EJ:44:LEU:O	17:Z4:214:GLN:NE2	2.46	0.48
9:EJ:374:ILE:HG23	9:EJ:378:PHE:HE2	1.79	0.48
15:F:54:MET:N	15:F:54:MET:SD	2.87	0.48
9:FF:68:LEU:HB3	9:FF:96:GLY:HA2	1.96	0.48
8:FI:317:MET:HA	8:FI:317:MET:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FL:270:PHE:HB3	9:FL:273:LEU:HD11	1.96	0.48
8:FO:22:GLU:HB3	8:FO:83:TYR:HE2	1.79	0.48
8:FO:264:ARG:NH1	8:FO:431:ASP:OD2	2.47	0.48
9:GB:269:GLY:C	9:GB:293:MET:HE1	2.39	0.48
9:GD:213:ARG:HH22	9:GD:297:LYS:HE3	1.78	0.48
8:GE:225:THR:O	8:GE:229:ARG:HG3	2.13	0.48
8:GG:388:TRP:HB3	8:GG:425:LEU:HD11	1.95	0.48
8:GK:262:TYR:OH	9:GL:391:ARG:O	2.30	0.48
8:GM:141:PHE:HB2	8:GM:173:PRO:HD3	1.96	0.48
8:GM:325:PRO:HA	8:GM:328:VAL:HB	1.95	0.48
8:HE:313:MET:N	8:HE:313:MET:SD	2.87	0.48
9:HF:324:LYS:O	9:HF:328:GLU:HG3	2.13	0.48
8:HG:172:TYR:HE2	8:HG:391:LEU:HD11	1.78	0.48
8:HI:274:PRO:HD3	8:HI:291:ILE:HD12	1.95	0.48
9:HN:202:ILE:HD13	9:HN:300:MET:HG3	1.95	0.48
9:HN:252:LYS:HD2	8:HO:100:ALA:HA	1.95	0.48
8:IC:262:TYR:HB2	8:IC:265:ILE:HD12	1.95	0.48
8:IE:172:TYR:CD2	8:IE:173:PRO:HD2	2.48	0.48
8:IG:27:GLU:OE1	8:IG:361:THR:OG1	2.31	0.48
8:II:154:MET:HG3	8:II:197:HIS:HB3	1.95	0.48
19:J3:218:THR:O	19:J3:222:GLN:HB2	2.14	0.48
19:J4:35:PRO:HB2	19:J4:59:GLN:HG2	1.96	0.48
9:JB:198:GLU:HA	9:JB:264:HIS:HB2	1.95	0.48
9:JD:238:THR:HG21	9:JD:318:ARG:HD2	1.96	0.48
9:JD:290:THR:HG23	9:JD:294:PHE:HE1	1.78	0.48
9:JD:323:MET:HE2	8:JE:224:TYR:HD2	1.77	0.48
9:JJ:255:VAL:HG23	8:JK:407:TRP:CG	2.49	0.48
9:JP:153:SER:HA	9:JP:195:ASN:ND2	2.28	0.48
9:KH:330:MET:HB2	9:KH:349:VAL:HG11	1.96	0.48
8:KI:1:MET:N	8:KI:1:MET:HE3	2.29	0.48
8:KK:322:ASP:OD2	8:KK:373:ARG:NH2	2.45	0.48
9:KP:55:THR:HG23	29:S:62:HIS:CE1	2.49	0.48
8:LA:6:SER:HB3	8:LA:8:HIS:CD2	2.48	0.48
9:LF:193:VAL:HG11	9:LF:418:LEU:HD22	1.94	0.48
8:LG:346:TRP:CD1	9:LH:391:ARG:HG3	2.48	0.48
8:LI:57:GLY:C	23:P:160:MET:HE1	2.38	0.48
8:LI:274:PRO:HG3	8:LI:286:LEU:HD13	1.94	0.48
9:LN:150:LEU:HG	9:LN:154:LYS:NZ	2.29	0.48
9:MB:246:LEU:H	9:MB:353:VAL:HG12	1.78	0.48
8:MC:71:GLU:OE2	8:MC:74:VAL:HG23	2.13	0.48
9:MF:148:GLY:HA2	9:MF:151:LEU:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MG:338:LYS:HE2	8:MG:341:ILE:HD11	1.95	0.48
9:MJ:117:LEU:HD12	9:MJ:121:ARG:NH1	2.28	0.48
9:MJ:404:ASP:OD1	9:MJ:404:ASP:N	2.38	0.48
8:MK:353:VAL:HB	9:ML:177:ASP:HB2	1.95	0.48
9:ML:5:VAL:HG22	9:ML:62:ARG:HD2	1.96	0.48
9:ML:120:VAL:HG11	9:ML:155:ILE:HD11	1.96	0.48
8:MO:132:LEU:O	8:MO:164:LYS:NZ	2.40	0.48
8:NE:102:ASN:HB3	8:NE:105:ARG:HB2	1.96	0.48
8:NI:115:VAL:HG22	8:NI:152:LEU:HD11	1.94	0.48
8:NI:256:GLN:O	9:NJ:397:TRP:HH2	1.97	0.48
9:NJ:248:ALA:HA	9:NJ:252:LYS:HD3	1.94	0.48
8:NK:91:GLN:HG3	8:NK:121:ARG:HD3	1.95	0.48
8:NK:298:PRO:HG3	8:NK:308:ARG:HE	1.77	0.48
9:NL:27:GLU:HA	9:NL:359:ARG:CZ	2.43	0.48
9:NL:262:ARG:NH2	9:NL:417:ASP:OD1	2.43	0.48
25:O5:418:LYS:HB3	25:O5:444:LEU:HD12	1.94	0.48
8:OC:132:LEU:O	8:OC:164:LYS:NZ	2.34	0.48
8:OC:275:VAL:HA	8:OC:368:LEU:HD11	1.95	0.48
9:OD:15:GLN:HB3	9:OD:222:TYR:HE2	1.78	0.48
9:OL:299:MET:HG3	9:OL:301:ALA:H	1.78	0.48
9:OL:315:ALA:HB1	9:OL:317:PHE:HE1	1.77	0.48
9:ON:173:PRO:HD3	9:ON:380:ARG:CZ	2.43	0.48
8:OO:2:ARG:CZ	8:OO:242:LEU:HA	2.44	0.48
8:OO:50:ASN:O	8:OO:64:ARG:NH1	2.46	0.48
17:P9:178:LEU:HD23	30:W7:48:LEU:HD13	1.94	0.48
8:PC:87:PHE:HD2	8:PC:92:LEU:HD21	1.78	0.48
9:PD:325:GLU:HA	9:PD:328:GLU:CB	2.44	0.48
8:PE:152:LEU:O	8:PE:156:ARG:HG2	2.14	0.48
9:PH:282:ARG:NH1	9:PH:288:GLU:OE1	2.47	0.48
9:PL:130:LEU:O	9:PL:162:ARG:NH1	2.42	0.48
8:PM:33:ASP:OD1	8:PM:34:GLY:N	2.46	0.48
8:PO:62:VAL:HG23	8:QO:283:HIS:NE2	2.28	0.48
8:QK:295:CYS:HB3	8:QK:377:MET:SD	2.54	0.48
8:QM:88:HIS:NE2	8:QM:90:GLU:HB3	2.29	0.48
11:R4:355:LYS:O	11:R4:359:THR:HG23	2.13	0.48
9:RF:230:SER:HA	9:RF:233:MET:SD	2.53	0.48
9:RF:324:LYS:O	9:RF:328:GLU:N	2.47	0.48
9:RH:213:ARG:HD2	9:RH:297:LYS:HD3	1.96	0.48
8:RI:113:GLU:CD	8:RI:113:GLU:N	2.72	0.48
8:RK:322:ASP:OD2	8:RK:373:ARG:NH2	2.46	0.48
9:RL:138:SER:HA	9:RL:169:VAL:HB	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RL:372:THR:O	9:RL:422:TYR:OH	2.23	0.48
12:S8:237:LEU:O	12:S8:241:ASN:ND2	2.46	0.48
9:SD:210:ILE:O	9:SD:214:THR:N	2.47	0.48
8:SE:169:PHE:HZ	8:SE:234:ILE:HD11	1.78	0.48
8:SE:172:TYR:HD1	8:SE:203:MET:HE2	1.78	0.48
8:SG:297:GLU:O	8:SG:301:GLN:NE2	2.39	0.48
8:SI:296:PHE:HE2	8:SI:335:ILE:HG13	1.79	0.48
8:SI:345:ASP:N	8:SI:345:ASP:OD1	2.46	0.48
9:SL:224:ASP:O	9:SL:228:LEU:HD22	2.14	0.48
14:T2:228:CYS:HA	14:T2:231:TYR:HD2	1.79	0.48
14:T4:78:ARG:HH22	14:T5:332:GLN:N	2.11	0.48
8:TA:169:PHE:CD1	8:TA:202:PHE:HB2	2.48	0.48
9:TH:1:MET:SD	9:TH:2:ARG:N	2.87	0.48
9:TH:8:GLN:O	9:TH:66:VAL:N	2.44	0.48
9:TN:415:MET:HA	9:TN:418:LEU:HB3	1.95	0.48
30:U7:225:CYS:SG	30:U7:226:GLN:N	2.86	0.48
30:U7:399:ARG:HH22	30:U7:413:GLN:HB2	1.77	0.48
9:UB:362:LYS:NZ	9:UB:363:MET:HG2	2.29	0.48
9:UH:83:GLN:O	9:VH:281:TYR:OH	2.25	0.48
8:UI:317:MET:HE3	8:UI:318:LEU:N	2.29	0.48
9:UL:372:THR:HA	9:UL:422:TYR:CE1	2.47	0.48
8:UM:169:PHE:CZ	8:UM:235:VAL:HG12	2.48	0.48
8:UM:256:GLN:HE22	9:UN:397:TRP:HH2	1.62	0.48
8:UO:3:GLU:HA	8:UO:51:THR:HA	1.94	0.48
8:UO:152:LEU:O	8:UO:156:ARG:HG2	2.14	0.48
25:V:415:ASN:O	25:V:418:LYS:HG2	2.13	0.48
30:V0:364:ILE:O	30:V0:368:ILE:HG23	2.14	0.48
30:V6:138:THR:OG1	30:V7:415:ARG:NH2	2.47	0.48
30:V8:294:GLU:N	30:V8:294:GLU:OE1	2.47	0.48
30:V9:376:MET:HE3	30:V9:377:LEU:HD22	1.96	0.48
9:VB:8:GLN:HB3	9:VB:65:LEU:HA	1.96	0.48
8:VC:60:LYS:NZ	8:VC:85:GLN:O	2.47	0.48
9:VD:263:LEU:HD22	9:VD:422:TYR:HD2	1.79	0.48
8:VG:39:ASP:O	8:VG:41:THR:HG22	2.14	0.48
8:VI:153:LEU:O	8:VI:157:LEU:HB2	2.14	0.48
8:VO:6:SER:HB3	8:VO:8:HIS:CD2	2.48	0.48
30:W0:146:LEU:HA	30:W0:149:LEU:HD22	1.96	0.48
8:WE:275:VAL:HA	8:WE:368:LEU:HD21	1.96	0.48
9:WN:309:ARG:HG3	9:WN:426:GLN:HG3	1.94	0.48
8:WO:179:THR:HG1	50:WO:501:GTP:HO3'	1.59	0.48
9:WP:54:ALA:HB3	9:WP:58:LYS:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:466:PHE:HB2	31:X:479:MET:HE1	1.96	0.48
33:X5:124:HIS:HB3	33:X5:127:GLU:OE2	2.14	0.48
34:X7:180:PRO:HD3	34:X7:196:TRP:HH2	1.75	0.48
35:XC:101:ARG:HH12	35:XC:117:PHE:HD1	1.61	0.48
31:Y:533:MET:HG2	31:Y:540:PHE:CG	2.48	0.48
31:Y:586:LEU:HD13	31:Y:599:LEU:HD13	1.95	0.48
36:Y5:240:ILE:HG23	36:Y5:241:LYS:HG3	1.95	0.48
37:YH:178:LEU:HD12	37:YH:231:MET:HG3	1.95	0.48
31:Z:256:CYS:SG	31:Z:281:ARG:NH2	2.86	0.48
39:a:117:GLN:HA	43:j:203:ASN:ND2	2.27	0.48
40:a3:5:LYS:HD2	40:a3:5:LYS:HA	1.60	0.48
42:g:211:THR:HG22	42:g:222:LEU:HD22	1.95	0.48
49:y:75:PHE:CE1	49:y:104:MET:HE1	2.49	0.48
3:3:376:ASP:HB2	3:3:383:ARG:HH22	1.79	0.48
4:5:193:ARG:HH12	4:5:194:LEU:HD13	1.77	0.48
7:A2:248:GLN:OE1	22:M2:121:ARG:NH1	2.46	0.48
7:A2:372:LEU:O	7:A2:376:ILE:HG13	2.13	0.48
8:AA:264:ARG:NH1	8:AA:431:ASP:OD2	2.44	0.48
8:AC:204:VAL:HA	8:AC:303:VAL:HG22	1.95	0.48
9:AJ:36:TYR:OH	9:AJ:40:SER:O	2.32	0.48
8:AK:186:ASN:OD1	8:AK:408:TYR:OH	2.28	0.48
8:AO:2:ARG:HB3	8:AO:242:LEU:HD23	1.96	0.48
9:AP:118:ASP:O	9:AP:122:LYS:HG2	2.14	0.48
9:AP:216:LYS:HB3	31:Z:34:MET:CE	2.44	0.48
11:B1:100:GLU:OE1	11:B1:101:GLN:N	2.47	0.48
11:B2:114:ILE:O	11:B2:118:THR:HG22	2.14	0.48
11:B3:106:LYS:HG3	11:B3:254:LEU:HD11	1.94	0.48
9:BD:184:ASN:OD1	9:BD:398:TYR:OH	2.31	0.48
8:BE:3:GLU:OE1	8:BE:64:ARG:NH1	2.47	0.48
8:BI:284:GLU:OE1	8:BI:285:GLN:N	2.47	0.48
8:BK:288:VAL:O	8:BK:292:THR:HG23	2.14	0.48
9:BL:58:LYS:HE3	9:CL:280:GLN:OE1	2.13	0.48
9:BL:97:ALA:HA	9:BL:103:LYS:HD2	1.95	0.48
9:BL:324:LYS:HB2	8:BM:222:PRO:HD2	1.95	0.48
8:BM:388:TRP:HB3	8:BM:425:LEU:HD21	1.95	0.48
9:BN:1:MET:N	9:BN:3:GLU:OE2	2.41	0.48
9:BN:87:PRO:HA	9:BN:90:PHE:HD1	1.77	0.48
9:BN:204:ASN:HA	9:BN:207:LEU:HD12	1.95	0.48
9:BN:250:LEU:HD23	9:BN:250:LEU:H	1.79	0.48
9:BP:237:THR:OG1	9:BP:241:ARG:NH1	2.47	0.48
10:C:342:LEU:O	10:C:346:ARG:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CF:221:THR:HG22	9:CF:222:TYR:H	1.78	0.48
8:CG:79:ARG:HG2	40:a2:105:ILE:HD11	1.94	0.48
8:CK:123:ARG:NH1	8:CK:127:ASP:OD2	2.47	0.48
8:CM:11:GLN:HG3	8:CM:74:VAL:HG11	1.95	0.48
8:CO:60:LYS:HZ3	8:DO:283:HIS:HA	1.79	0.48
8:DC:151:SER:HA	8:DC:193:THR:HG21	1.95	0.48
8:DC:260:VAL:O	9:DD:397:TRP:NE1	2.41	0.48
8:DC:302:MET:N	8:DC:302:MET:SD	2.86	0.48
9:DD:337:ASN:HB3	9:DD:340:TYR:HD2	1.78	0.48
8:DG:203:MET:HB3	8:DG:203:MET:HE3	1.47	0.48
9:EF:221:THR:N	9:EF:224:ASP:OD2	2.46	0.48
8:EG:345:ASP:N	8:EG:345:ASP:OD1	2.46	0.48
9:EH:229:VAL:O	9:EH:233:MET:HG3	2.14	0.48
8:EI:105:ARG:CZ	8:EI:110:ILE:HD11	2.44	0.48
8:EI:286:LEU:O	8:EI:373:ARG:NH1	2.46	0.48
9:EL:166:THR:HG23	9:EL:199:THR:HG23	1.95	0.48
8:EM:320:ARG:HD3	8:EM:360:PRO:HG3	1.95	0.48
8:FA:172:TYR:HB2	8:FA:203:MET:HB3	1.96	0.48
9:FB:221:THR:N	9:FB:224:ASP:OD2	2.47	0.48
8:FC:36:MET:HE1	8:FC:61:HIS:CE1	2.48	0.48
8:FG:88:HIS:NE2	8:GG:284:GLU:OE2	2.44	0.48
9:FH:10:GLY:O	9:FH:14:ASN:ND2	2.47	0.48
9:FH:54:ALA:HB3	9:FH:58:LYS:HB2	1.96	0.48
9:FL:112:LEU:HD23	9:FL:147:MET:HE1	1.96	0.48
8:FM:6:SER:HB3	8:FM:8:HIS:CD2	2.48	0.48
8:GG:216:ASN:HD22	8:GG:275:VAL:HG13	1.77	0.48
8:HA:145:THR:O	8:HA:149:PHE:HB3	2.14	0.48
9:HB:204:ASN:HA	9:HB:207:LEU:HD12	1.96	0.48
8:HC:265:ILE:HG12	8:HC:432:TYR:HE1	1.78	0.48
9:HH:324:LYS:HE2	8:HI:222:PRO:HD2	1.96	0.48
9:HJ:286:VAL:O	9:HJ:290:THR:HG23	2.13	0.48
8:IA:16:ILE:HD13	8:IA:231:ILE:HG21	1.95	0.48
8:IG:3:GLU:HB2	8:IG:132:LEU:HD23	1.94	0.48
9:IH:201:CYS:HB2	9:IH:267:MET:SD	2.54	0.48
9:IL:309:ARG:NH2	9:IL:343:GLU:OE1	2.47	0.48
8:IO:26:LEU:HD21	8:IO:363:VAL:HG12	1.96	0.48
8:IO:130:THR:OG1	8:IO:131:GLY:N	2.46	0.48
9:IP:268:PRO:HG2	9:IP:300:MET:HE3	1.96	0.48
19:J3:251:PHE:HE1	8:LK:439:SER:HB3	1.79	0.48
9:JB:12:CYS:SG	9:JB:169:VAL:HG21	2.54	0.48
8:JC:196:GLU:HG3	8:JC:197:HIS:HD2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JC:286:LEU:O	8:JC:373:ARG:NH1	2.47	0.48
9:JF:83:GLN:NE2	15:N2:100:VAL:HG11	2.28	0.48
8:JG:265:ILE:HG21	8:JG:313:MET:HE1	1.95	0.48
9:JH:388:MET:HB2	9:JH:393:ALA:HB3	1.96	0.48
8:JI:280:LYS:HE3	8:JI:280:LYS:HA	1.95	0.48
8:JI:333:ALA:O	8:JI:337:THR:HG22	2.14	0.48
9:JL:256:ASN:HD21	8:JM:181:VAL:H	1.61	0.48
8:KA:252:LEU:HA	8:KA:255:PHE:CE2	2.49	0.48
9:KB:374:ILE:HG23	9:KB:378:PHE:HE2	1.79	0.48
8:KC:212:ILE:O	8:KC:216:ASN:HB2	2.14	0.48
9:KD:73:MET:HG3	9:KD:92:PHE:HD2	1.78	0.48
9:KD:375:GLN:HA	9:KD:378:PHE:HD2	1.78	0.48
9:KH:178:THR:HG22	9:KH:180:VAL:H	1.79	0.48
9:KH:213:ARG:NH1	9:KH:297:LYS:HD2	2.20	0.48
9:KN:225:LEU:HD12	9:KN:225:LEU:H	1.78	0.48
8:KO:263:PRO:HG3	9:KP:396:HIS:CG	2.49	0.48
9:KP:17:GLY:HA2	9:KP:20:PHE:HB3	1.96	0.48
17:L:264:ARG:NH1	25:V:104:GLN:OE1	2.40	0.48
21:L1:103:GLN:HE22	21:L1:104:LYS:HD3	1.77	0.48
9:LB:435:GLU:HG2	43:h:107:ASN:ND2	2.28	0.48
8:LC:7:ILE:HD12	8:LC:137:ILE:HG12	1.96	0.48
9:LD:290:THR:HA	9:LD:293:MET:HB2	1.94	0.48
9:LF:62:ARG:NH1	9:LF:127:CYS:SG	2.87	0.48
9:LH:194:GLU:O	43:j:68:LYS:NZ	2.47	0.48
9:LH:316:VAL:HB	9:LH:366:THR:HG22	1.96	0.48
8:LO:27:GLU:OE1	8:LO:244:PHE:HZ	1.97	0.48
8:LO:151:SER:HA	8:LO:193:THR:HG21	1.95	0.48
9:MD:173:PRO:HB3	9:MD:380:ARG:HD2	1.95	0.48
8:ME:76:ASP:HA	8:ME:79:ARG:HG3	1.96	0.48
8:MG:70:LEU:HB3	8:MG:98:ASP:HA	1.96	0.48
8:MG:111:GLY:O	8:MG:115:VAL:HG23	2.14	0.48
8:MI:139:HIS:O	8:MI:170:ALA:HA	2.13	0.48
9:MN:344:TRP:CD1	8:MO:401:LYS:HD2	2.49	0.48
9:NB:245:GLN:HB3	8:NC:224:TYR:CD2	2.48	0.48
8:NC:316:CYS:HA	8:NC:352:LYS:HB3	1.96	0.48
8:NC:360:PRO:O	8:NC:370:LYS:NZ	2.38	0.48
9:NF:36:TYR:CZ	9:NF:44:LEU:HG	2.48	0.48
8:NI:169:PHE:HA	8:NI:202:PHE:HB2	1.94	0.48
8:NI:269:LEU:HD11	8:NI:384:ILE:HD12	1.95	0.48
8:NK:66:VAL:HA	8:NK:91:GLN:HB3	1.95	0.48
8:NK:89:PRO:HD2	8:OK:280:LYS:HZ3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NK:97:GLU:HG3	8:NK:105:ARG:HH22	1.76	0.48
8:NK:212:ILE:HG13	8:NK:302:MET:HE1	1.96	0.48
8:NK:319:TYR:CD1	8:NK:375:VAL:HG22	2.49	0.48
8:NK:320:ARG:O	8:NK:373:ARG:HA	2.14	0.48
8:NM:324:VAL:HG21	9:NN:219:THR:HG23	1.95	0.48
9:NP:116:VAL:O	9:NP:120:VAL:HG23	2.14	0.48
9:NP:184:ASN:OD1	9:NP:398:TYR:OH	2.31	0.48
25:O5:441:SER:HG	25:O5:450:SER:HG	1.58	0.48
8:OC:33:ASP:HA	8:OC:85:GLN:HE21	1.78	0.48
8:OC:133:GLN:HG3	8:OC:252:LEU:HD23	1.96	0.48
9:OD:51:TYR:HB3	9:OD:59:TYR:HB3	1.96	0.48
8:OK:170:ALA:O	8:OK:203:MET:HA	2.14	0.48
8:OK:214:ARG:HE	36:Y4:45:LYS:NZ	2.11	0.48
8:OK:328:VAL:O	8:OK:332:ILE:HG12	2.13	0.48
9:OL:221:THR:N	9:OL:224:ASP:OD2	2.45	0.48
9:OL:257:MET:CE	9:OL:314:ALA:HB2	2.43	0.48
27:P5:157:LEU:HD23	27:P5:157:LEU:C	2.39	0.48
9:PB:322:SER:HB3	8:PC:221:ARG:CD	2.43	0.48
8:PC:88:HIS:NE2	8:PC:90:GLU:HB3	2.29	0.48
8:PC:332:ILE:HG23	8:PC:351:PHE:HE2	1.79	0.48
9:PL:200:TYR:CD1	9:PL:266:PHE:HB2	2.49	0.48
8:PM:191:THR:HA	8:PM:194:THR:HG22	1.96	0.48
28:Q1:12:SER:HB2	12:S3:285:ARG:CZ	2.43	0.48
9:QF:372:THR:HA	9:QF:422:TYR:CE1	2.47	0.48
9:QH:156:ARG:HD3	9:QH:164:MET:HE2	1.96	0.48
8:QI:145:THR:H	50:QI:501:GTP:PG	2.37	0.48
8:QI:276:ILE:HD11	8:QI:286:LEU:HD11	1.96	0.48
8:QK:316:CYS:HB3	8:QK:378:LEU:HB2	1.95	0.48
9:QL:52:ASN:HB3	9:QL:60:VAL:HG23	1.96	0.48
9:QN:86:ARG:NH1	9:RN:277:GLY:O	2.36	0.48
8:QO:398:MET:HA	8:QO:398:MET:HE3	1.96	0.48
29:R:11:GLN:O	29:R:15:LEU:HG	2.13	0.48
11:R1:301:GLU:OE1	11:R1:305:ARG:NH2	2.47	0.48
11:R4:27:ASN:O	11:R4:31:GLN:HG2	2.13	0.48
9:RH:261:PRO:HG3	8:RI:406:HIS:CD2	2.49	0.48
8:RI:53:PHE:HB3	8:RI:61:HIS:HB3	1.96	0.48
9:RN:344:TRP:HZ3	8:RO:403:ALA:HB2	1.79	0.48
12:S4:358:LYS:HE2	12:S4:463:ALA:HB2	1.95	0.48
12:S7:212:HIS:ND1	12:S7:216:GLU:OE1	2.47	0.48
12:S9:322:ARG:HB2	12:S9:322:ARG:CZ	2.43	0.48
9:SF:224:ASP:O	9:SF:228:LEU:HD22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SG:67:PHE:HB2	8:SG:92:LEU:HD13	1.96	0.48
14:T1:436:ARG:HD3	14:T1:437:TYR:H	1.77	0.48
14:T2:438:PRO:HD2	14:T2:441:LEU:HB2	1.95	0.48
8:TA:136:LEU:HA	8:TA:167:LEU:HD12	1.94	0.48
8:TA:311:LYS:HD3	8:TA:344:VAL:HG12	1.96	0.48
9:TD:215:LEU:HD21	9:TD:273:LEU:HB3	1.96	0.48
8:TI:191:THR:HA	8:TI:194:THR:HG22	1.96	0.48
8:TI:248:LEU:H	8:TI:355:ILE:HG23	1.77	0.48
9:TJ:275:SER:O	9:TJ:279:GLN:NE2	2.46	0.48
30:U6:274:SER:O	30:U7:387:TYR:OH	2.27	0.48
30:U6:289:THR:OG1	30:U7:409:ARG:NE	2.46	0.48
30:U8:333:TRP:CE3	30:U8:476:PHE:HD1	2.32	0.48
30:U9:218:GLU:HG2	30:U9:335:GLN:CG	2.38	0.48
9:UB:262:ARG:HH21	9:UB:418:LEU:HB2	1.79	0.48
9:UD:322:SER:O	8:UE:221:ARG:NH2	2.42	0.48
8:UE:70:LEU:HB3	8:UE:98:ASP:HA	1.94	0.48
8:UI:316:CYS:HB3	8:UI:378:LEU:HB2	1.96	0.48
9:UJ:289:LEU:HG	9:UJ:363:MET:HE3	1.95	0.48
8:UK:338:LYS:HE2	8:UK:340:THR:HB	1.95	0.48
9:UL:152:ILE:HA	9:UL:155:ILE:HG12	1.96	0.48
9:UN:102:ALA:HB1	9:UN:403:MET:HE1	1.95	0.48
30:V1:420:VAL:HG21	30:V2:284:GLU:HG3	1.95	0.48
30:V2:363:LYS:HG2	30:V3:110:ARG:HD2	1.95	0.48
30:V4:127:LYS:HA	30:V4:127:LYS:HD3	1.72	0.48
8:VA:155:GLU:HB2	8:VA:156:ARG:HH11	1.79	0.48
9:VF:8:GLN:HE21	9:VF:14:ASN:HA	1.79	0.48
9:VJ:167:PHE:CZ	9:VJ:233:MET:HG3	2.48	0.48
9:VJ:344:TRP:H	9:VJ:344:TRP:CD1	2.32	0.48
9:VJ:358:PRO:HG2	9:VJ:361:LEU:HB3	1.96	0.48
9:VL:130:LEU:O	9:VL:162:ARG:NH1	2.39	0.48
9:VN:237:THR:HG22	9:VN:250:LEU:HD21	1.95	0.48
30:W7:159:GLU:HG3	30:W7:304:ILE:HG23	1.95	0.48
30:W7:380:ARG:CZ	31:Z:588:SER:HB2	2.44	0.48
9:WB:69:GLU:HG2	9:WB:71:GLY:H	1.79	0.48
8:WC:269:LEU:HD21	8:WC:384:ILE:HD13	1.94	0.48
9:WJ:321:MET:HG2	9:WJ:322:SER:O	2.14	0.48
8:WM:93:ILE:HD11	8:WM:121:ARG:HG3	1.95	0.48
8:WO:215:ARG:NE	8:WO:216:ASN:OD1	2.47	0.48
9:WP:50:TYR:CE2	9:WP:241:ARG:HD3	2.48	0.48
32:X2:196:GLU:HG3	32:X2:203:HIS:CD2	2.48	0.48
35:XC:76:LEU:HB3	35:XC:134:PHE:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XD:91:VAL:HG22	35:XD:154:VAL:HG22	1.95	0.48
36:Y3:19:ILE:HG22	36:Y3:20:MET:H	1.78	0.48
37:YA:113:ARG:NH1	37:YA:117:ASP:OD1	2.45	0.48
37:YG:72:ASP:OD1	37:YG:74:LYS:HB3	2.13	0.48
31:Z:393:TYR:OH	31:Z:397:GLY:O	2.32	0.48
39:b:371:ARG:HA	39:b:371:ARG:NH1	2.29	0.48
41:b2:170:LYS:O	41:b2:174:ILE:HG13	2.13	0.48
41:b3:326:GLN:HG2	41:b3:330:ASN:HD21	1.78	0.48
41:b5:164:ARG:HH21	41:b5:167:GLU:HG3	1.78	0.48
41:b5:223:LEU:HD22	41:b5:310:ILE:HG21	1.96	0.48
42:e:79:ILE:O	42:e:96:TRP:N	2.46	0.48
42:f:293:ILE:HD13	42:f:309:THR:HG22	1.96	0.48
42:g:303:HIS:CE1	46:i4:1494:LEU:HB3	2.49	0.48
43:h:105:PHE:HA	43:h:108:THR:HG22	1.95	0.48
46:i3:1397:CYS:O	46:i3:1401:GLN:N	2.41	0.48
46:i4:1471:VAL:HG23	46:i4:1503:SER:HA	1.96	0.48
47:p:267:LEU:HA	47:p:270:MET:HG2	1.95	0.48
49:y:62:SER:HB2	49:y:107:VAL:HG22	1.95	0.48
2:2:487:TRP:CH2	9:IP:284:LEU:HD11	2.48	0.48
2:2:517:LYS:HD2	2:2:518:VAL:H	1.77	0.48
3:3:160:ARG:NH2	26:P2:7:TYR:H	2.11	0.48
9:AF:41:ASP:OD1	9:AF:42:LEU:HD12	2.14	0.48
8:AG:157:LEU:HB3	8:AG:166:LYS:HE2	1.96	0.48
8:AG:174:ALA:HB1	8:AG:175:PRO:HD2	1.94	0.48
9:AL:239:CYS:SG	9:AL:248:ALA:N	2.83	0.48
9:AP:111:GLU:N	9:AP:111:GLU:OE1	2.46	0.48
11:B2:104:GLN:HG2	28:Q2:47:VAL:HG22	1.95	0.48
11:B5:395:ARG:NH2	11:B5:405:VAL:O	2.31	0.48
8:BE:188:ILE:HD13	8:BE:425:LEU:HD12	1.95	0.48
8:BK:356:ASN:ND2	8:BK:358:GLN:OE1	2.43	0.48
8:BM:7:ILE:HD12	8:BM:66:VAL:HG22	1.95	0.48
8:BM:318:LEU:HB2	8:BM:376:CYS:HB3	1.95	0.48
8:BO:114:ILE:O	8:BO:118:VAL:HG22	2.14	0.48
10:C:345:ARG:HD2	10:C:346:ARG:HD2	1.96	0.48
12:C1:248:ARG:HD3	11:R1:417:ARG:C	2.38	0.48
12:C4:252:HIS:O	12:C4:256:LYS:NZ	2.47	0.48
8:CG:9:VAL:HG23	8:CG:68:VAL:HB	1.96	0.48
14:D3:162:ARG:HG2	14:D3:425:ILE:HD11	1.96	0.48
14:D5:353:ALA:HB1	14:D5:380:GLU:OE1	2.13	0.48
9:DD:311:LEU:HD23	9:DD:312:THR:HG23	1.95	0.48
8:DE:203:MET:H	8:DE:203:MET:CE	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DP:165:ASN:OD1	9:DP:165:ASN:N	2.45	0.48
9:EH:334:GLN:HE22	9:EH:347:ASN:HA	1.79	0.48
8:EI:91:GLN:HA	8:EI:121:ARG:HH12	1.78	0.48
8:EK:408:TYR:HB3	8:EK:413:MET:HE2	1.94	0.48
9:EL:375:GLN:NE2	9:EL:423:GLN:OE1	2.27	0.48
8:EM:326:LYS:HD3	9:EN:208:TYR:CD1	2.49	0.48
9:EN:73:MET:HE3	9:EN:90:PHE:HB3	1.96	0.48
8:EO:6:SER:HB3	8:EO:8:HIS:NE2	2.29	0.48
8:EO:377:MET:HE3	8:EO:378:LEU:H	1.79	0.48
15:F:167:SER:OG	15:F:182:GLN:NE2	2.37	0.48
8:FC:210:TYR:O	8:FC:214:ARG:HG3	2.14	0.48
9:FF:337:ASN:HB3	9:FF:340:TYR:HD2	1.79	0.48
8:FI:254:GLU:HG2	9:FJ:98:GLY:HA2	1.96	0.48
8:FK:440:VAL:O	9:FL:390:ARG:NH1	2.46	0.48
9:GB:20:PHE:CE1	9:GB:233:MET:HE2	2.49	0.48
9:GB:31:ASP:OD1	9:GB:35:THR:N	2.47	0.48
8:GC:119:LEU:HA	8:GC:122:ILE:HG12	1.96	0.48
8:GE:172:TYR:HB2	8:GE:203:MET:HB2	1.94	0.48
9:GL:146:GLY:O	9:GL:149:THR:OG1	2.26	0.48
8:HA:36:MET:HE3	8:HA:61:HIS:CE1	2.49	0.48
9:HD:207:LEU:HD13	9:HD:225:LEU:HB3	1.95	0.48
9:HD:334:GLN:OE1	9:HD:348:ASN:N	2.47	0.48
9:HF:108:GLU:N	9:HF:108:GLU:OE2	2.47	0.48
8:HM:4:CYS:HA	8:HM:134:GLY:O	2.13	0.48
8:HM:170:ALA:O	8:HM:203:MET:HA	2.14	0.48
8:HO:253:THR:O	8:HO:257:THR:OG1	2.26	0.48
9:IB:323:MET:HE1	8:IC:224:TYR:CD2	2.48	0.48
9:ID:286:VAL:HG11	9:ID:326:VAL:HG12	1.95	0.48
8:IE:213:CYS:HB2	8:IE:219:ILE:CG2	2.44	0.48
9:IF:8:GLN:HG2	9:IF:14:ASN:HA	1.95	0.48
9:IL:38:GLY:HA3	9:IL:43:GLN:OE1	2.14	0.48
9:IL:46:ARG:NH2	8:IM:76:ASP:OD2	2.47	0.48
9:IP:50:TYR:C	9:IP:51:TYR:HD1	2.22	0.48
19:J5:74:ARG:HD3	19:J5:78:LEU:HB2	1.93	0.48
9:JD:282:ARG:NH2	9:JD:292:GLN:OE1	2.45	0.48
9:JD:324:LYS:N	8:JE:221:ARG:HH12	2.12	0.48
8:JE:111:GLY:HA3	8:JE:152:LEU:HD21	1.96	0.48
8:JI:151:SER:HA	8:JI:193:THR:HG21	1.96	0.48
9:JL:199:THR:O	9:JL:266:PHE:N	2.46	0.48
8:JM:280:LYS:HD3	8:JM:280:LYS:N	2.29	0.48
8:JM:313:MET:SD	8:JM:435:VAL:HG11	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JQ:195:LEU:HD21	8:JQ:428:LEU:HD21	1.96	0.48
8:JQ:333:ALA:O	8:JQ:337:THR:HG23	2.14	0.48
8:KC:141:PHE:HD2	8:KC:187:SER:HA	1.78	0.48
9:KH:229:VAL:O	9:KH:233:MET:HG3	2.13	0.48
21:L1:130:PRO:HG3	21:L1:139:LYS:HG3	1.95	0.48
9:LB:288:GLU:HA	9:LB:291:GLN:HB3	1.95	0.48
8:LC:269:LEU:HG	8:LC:303:VAL:HG21	1.95	0.48
8:LG:271:THR:OG1	8:LG:301:GLN:OE1	2.30	0.48
8:LI:6:SER:HB3	8:LI:8:HIS:NE2	2.28	0.48
22:M4:174:THR:OG1	22:M4:175:TYR:N	2.47	0.48
8:MA:285:GLN:HE22	8:MA:287:SER:HB3	1.79	0.48
9:MJ:271:ALA:HB2	9:MJ:293:MET:HG3	1.96	0.48
8:MO:2:ARG:NH2	9:MP:71:GLY:HA3	2.29	0.48
9:NB:19:LYS:O	9:NB:23:VAL:HG13	2.14	0.48
9:NF:213:ARG:HE	9:NF:297:LYS:HD2	1.79	0.48
8:NG:28:HIS:NE2	8:NG:243:ARG:HD2	2.29	0.48
8:NG:88:HIS:HE1	8:OG:280:LYS:HZ3	1.61	0.48
9:NJ:166:THR:HG23	9:NJ:199:THR:HG23	1.95	0.48
8:NK:105:ARG:HH21	8:NK:110:ILE:HD11	1.78	0.48
8:NK:263:PRO:O	8:NK:266:HIS:ND1	2.45	0.48
9:NL:73:MET:SD	9:NL:74:ASP:N	2.87	0.48
9:NN:173:PRO:HG2	9:NN:174:LYS:HD3	1.96	0.48
9:NN:282:ARG:HD2	9:NN:282:ARG:N	2.29	0.48
8:NO:287:SER:O	8:NO:291:ILE:HG23	2.14	0.48
23:O:19:ARG:HG3	23:O:22:ARG:HH21	1.78	0.48
24:O2:94:VAL:HG11	24:O2:101:THR:HG23	1.96	0.48
24:O4:49:THR:HB	24:O4:101:THR:HG22	1.95	0.48
25:O5:281:ARG:C	25:O5:281:ARG:HD2	2.37	0.48
17:O7:219:SER:HA	17:O7:236:TYR:HD2	1.78	0.48
17:O9:103:GLN:HE21	30:W5:52:ARG:HB2	1.78	0.48
8:OA:79:ARG:HH21	8:OA:94:THR:HG23	1.79	0.48
9:OB:253:LEU:HB2	9:OB:257:MET:HE1	1.95	0.48
8:OC:183:GLU:HA	8:OC:186:ASN:HD22	1.79	0.48
8:OG:319:TYR:HB3	8:OG:323:VAL:HG11	1.96	0.48
9:ON:12:CYS:HA	52:ON:502:GDP:C5	2.49	0.48
27:P5:172:TRP:O	11:R3:20:ASN:ND2	2.43	0.48
17:P9:61:LYS:HZ1	11:R3:350:ASN:ND2	2.11	0.48
9:PB:36:TYR:CD2	9:PB:44:LEU:HD13	2.49	0.48
9:PH:133:PHE:HB2	9:PH:164:MET:HE1	1.95	0.48
8:PI:312:TYR:HE1	8:PI:379:SER:HB2	1.79	0.48
9:PJ:139:LEU:HD21	9:PJ:168:SER:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PM:88:HIS:NE2	8:PM:90:GLU:HB3	2.28	0.48
9:PN:325:GLU:HG3	8:PO:221:ARG:NH1	2.29	0.48
9:PP:358:PRO:HG2	9:PP:361:LEU:HB3	1.96	0.48
28:Q3:97:CYS:O	28:Q3:101:ARG:HG3	2.13	0.48
8:QE:88:HIS:HD2	8:QE:91:GLN:HG3	1.77	0.48
9:QF:5:VAL:HG23	9:QF:130:LEU:HD11	1.96	0.48
8:QG:108:TYR:HA	8:QG:112:LYS:HE3	1.96	0.48
8:QG:269:LEU:HD13	8:QG:303:VAL:HG21	1.96	0.48
9:QH:252:LYS:HD3	8:QI:100:ALA:HA	1.96	0.48
9:QN:174:LYS:O	9:QN:174:LYS:NZ	2.38	0.48
11:R1:200:SER:HB2	14:T4:213:MET:HE2	1.96	0.48
11:R1:295:GLY:O	11:R1:298:ARG:HG2	2.14	0.48
11:R1:300:LEU:HD23	11:R1:300:LEU:HA	1.77	0.48
11:R1:366:LEU:O	11:R1:370:LEU:N	2.46	0.48
11:R2:399:VAL:HG23	11:R2:402:GLU:HB2	1.95	0.48
8:RC:108:TYR:HA	8:RC:112:LYS:HE3	1.95	0.48
9:RD:305:PRO:HB2	9:RD:306:ARG:HH21	1.79	0.48
9:RF:60:VAL:HG11	9:SD:281:TYR:HB3	1.96	0.48
9:RH:151:LEU:HD13	9:RH:154:LYS:HD2	1.95	0.48
9:RH:262:ARG:HH21	9:RH:418:LEU:HD13	1.79	0.48
8:RI:241:SER:OG	8:RI:250:VAL:O	2.23	0.48
9:RJ:290:THR:HG21	9:RJ:329:GLN:HB3	1.96	0.48
12:S2:214:GLU:HA	12:S2:217:LYS:HB2	1.96	0.48
12:S7:383:LYS:HB3	12:S7:387:LYS:NZ	2.29	0.48
12:S8:202:ARG:HG3	12:S8:472:LYS:HE2	1.96	0.48
8:SA:114:ILE:O	8:SA:118:VAL:HG22	2.13	0.48
8:SA:250:VAL:HG13	8:SA:254:GLU:HB3	1.96	0.48
9:SB:321:MET:SD	9:SB:321:MET:N	2.86	0.48
8:SC:360:PRO:O	8:SC:370:LYS:NZ	2.42	0.48
9:SD:427:ASP:OD1	9:SD:427:ASP:N	2.36	0.48
8:SE:311:LYS:H	8:SE:382:THR:HG22	1.79	0.48
9:SF:45:GLU:CD	9:SF:46:ARG:HB2	2.39	0.48
8:SG:324:VAL:HG12	8:SG:326:LYS:H	1.79	0.48
9:SH:269:GLY:HA2	9:SH:300:MET:HE3	1.96	0.48
8:SK:259:LEU:HD21	8:SK:268:PRO:HG2	1.96	0.48
9:SL:256:ASN:HD21	8:SM:181:VAL:HG23	1.78	0.48
9:SL:323:MET:HE3	8:SM:223:THR:HA	1.96	0.48
9:SN:289:LEU:O	9:SN:293:MET:HG2	2.14	0.48
9:TB:198:GLU:OE2	9:TB:198:GLU:N	2.47	0.48
8:TC:51:THR:HG21	8:TC:243:ARG:HG2	1.96	0.48
8:TC:149:PHE:HD2	8:TC:149:PHE:H	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TE:107:HIS:HA	8:TE:152:LEU:HD23	1.94	0.48
9:TJ:118:ASP:OD1	9:TJ:121:ARG:NH2	2.40	0.48
8:TM:279:GLU:H	8:TM:279:GLU:CD	2.21	0.48
30:U2:85:ALA:HB2	31:X:573:HIS:CD2	2.49	0.48
30:U2:185:ASN:O	30:U2:189:GLN:HG2	2.14	0.48
30:U5:226:GLN:NE2	30:U5:230:ARG:HE	2.12	0.48
30:U8:127:LYS:O	30:U8:131:ILE:HG23	2.14	0.48
9:UF:269:GLY:HA3	9:UF:367:PHE:HB3	1.96	0.48
8:UI:191:THR:HA	8:UI:194:THR:HG22	1.95	0.48
9:UJ:279:GLN:HB2	39:c:236:ARG:HD3	1.96	0.48
8:UK:165:SER:HB3	8:UK:256:GLN:HE22	1.79	0.48
9:UL:26:ASP:OD1	9:UL:359:ARG:NH1	2.46	0.48
9:UN:371:SER:O	9:UN:422:TYR:OH	2.31	0.48
8:UO:58:ALA:O	39:b:312:GLN:NE2	2.46	0.48
8:UO:88:HIS:CE1	8:VO:283:HIS:HB3	2.49	0.48
25:V:153:ARG:HH21	25:V:162:HIS:CE1	2.32	0.48
25:V:427:GLU:HB2	25:V:502:ARG:HG2	1.95	0.48
30:V0:406:GLU:HB3	30:V1:260:ALA:HB2	1.96	0.48
30:V1:170:MET:HE2	30:V1:240:ILE:HG13	1.96	0.48
30:V3:419:GLU:OE1	30:V4:134:MET:HE2	2.14	0.48
30:V5:156:LEU:HD23	30:V5:304:ILE:HD11	1.95	0.48
30:V5:162:ARG:HD3	30:V5:162:ARG:HA	1.66	0.48
30:V5:227:ASP:O	30:V5:231:LYS:HG2	2.14	0.48
9:VB:8:GLN:HE21	9:VB:14:ASN:HA	1.79	0.48
8:VC:31:GLN:HG2	8:VC:37:PRO:HD3	1.96	0.48
9:VD:267:MET:HG2	9:VD:301:ALA:HB3	1.95	0.48
9:VD:344:TRP:CD1	9:VD:344:TRP:H	2.31	0.48
8:VE:298:PRO:HA	8:VE:301:GLN:HG2	1.95	0.48
30:W0:346:ARG:O	30:W0:350:GLU:HB2	2.14	0.48
8:WA:203:MET:H	8:WA:203:MET:CE	2.26	0.48
9:WB:163:ILE:HG13	9:WB:251:ARG:HH21	1.78	0.48
9:WD:149:THR:O	9:WD:191:GLN:NE2	2.47	0.48
9:WF:133:PHE:O	9:WF:164:MET:HA	2.13	0.48
8:WG:311:LYS:H	8:WG:382:THR:HG22	1.79	0.48
9:WH:215:LEU:HD12	9:WH:275:SER:HA	1.94	0.48
9:WJ:390:ARG:HH22	9:WJ:391:ARG:HE	1.62	0.48
8:WM:167:LEU:HD11	8:WM:256:GLN:HE21	1.79	0.48
8:WM:203:MET:H	8:WM:203:MET:HG3	1.43	0.48
33:X4:98:ASP:OD1	33:X4:98:ASP:N	2.37	0.48
33:X4:363:THR:HG21	31:Y:180:LYS:HB3	1.95	0.48
35:XB:133:GLN:NE2	35:XB:134:PHE:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Z5:215:ARG:HB2	17:Z5:244:MET:HE2	1.94	0.48
41:b1:401:TYR:HD2	41:b1:409:LEU:HD21	1.78	0.48
39:c:421:ARG:HA	39:c:424:ARG:HD2	1.95	0.48
42:e:548:ILE:HG23	42:e:563:GLY:H	1.79	0.48
42:g:486:ILE:HG21	42:g:495:ARG:HD3	1.95	0.48
43:h:103:LYS:HE2	43:h:108:THR:HG21	1.94	0.48
45:n:84:ARG:NH1	45:n:92:LEU:HG	2.29	0.48
48:q:160:LYS:HG2	48:q:166:PHE:CD1	2.49	0.48
4:6:225:HIS:CD2	30:V7:274:SER:H	2.31	0.48
1:7:202:HIS:ND1	9:LF:216:LYS:O	2.37	0.48
7:A1:371:ALA:O	7:A1:375:GLU:HG2	2.14	0.48
9:AB:427:ASP:HB2	37:YA:43:ALA:HB3	1.96	0.48
8:AC:372:GLN:OE1	8:AC:373:ARG:NH2	2.46	0.48
9:AD:152:ILE:HD12	9:AD:164:MET:HE2	1.96	0.48
8:AE:370:LYS:HZ2	25:U:90:VAL:HA	1.78	0.48
8:AI:225:THR:HA	8:AI:228:ASN:HD22	1.79	0.48
8:AK:98:ASP:O	8:AK:105:ARG:NH1	2.47	0.48
8:AK:192:HIS:NE2	8:AK:424:ASP:OD2	2.47	0.48
9:AN:7:LEU:CD1	9:AN:151:LEU:HD21	2.44	0.48
11:B3:102:ASN:HB3	11:B3:106:LYS:HZ1	1.79	0.48
11:B3:298:ARG:O	11:B3:302:GLU:HG2	2.14	0.48
8:BE:311:LYS:H	8:BE:382:THR:HG22	1.78	0.48
8:BM:251:ASP:OD1	8:BM:252:LEU:N	2.46	0.48
8:BM:430:LYS:HE2	8:BM:430:LYS:HB2	1.67	0.48
9:BN:219:THR:O	25:O5:140:ASN:ND2	2.35	0.48
8:BO:377:MET:HE3	8:BO:378:LEU:N	2.29	0.48
12:C2:229:CYS:O	12:C2:233:MET:HG3	2.14	0.48
9:CF:51:TYR:HE2	9:CF:61:PRO:HG3	1.79	0.48
9:CH:228:LEU:HB3	9:CH:300:MET:CE	2.43	0.48
9:CJ:273:LEU:O	9:CJ:292:GLN:NE2	2.32	0.48
8:CK:269:LEU:HD22	8:CK:303:VAL:HG21	1.95	0.48
9:CL:271:ALA:O	9:CL:273:LEU:N	2.46	0.48
9:CL:346:PRO:O	8:CM:394:LYS:NZ	2.37	0.48
8:CO:40:LYS:HE3	40:a4:87:HIS:HD2	1.79	0.48
13:D:438:TYR:CD2	9:LB:83:GLN:HB3	2.49	0.48
14:D5:325:THR:O	14:D5:329:ILE:HG23	2.13	0.48
9:DB:327:ASP:OD1	9:DB:328:GLU:N	2.47	0.48
9:DB:377:LEU:HA	9:DB:380:ARG:NE	2.28	0.48
8:DC:15:GLN:HE22	8:DC:74:VAL:CG2	2.27	0.48
8:DC:224:TYR:HA	8:DC:227:LEU:HD13	1.94	0.48
8:DE:2:ARG:HB3	8:DE:242:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DF:344:TRP:HZ3	8:DG:403:ALA:HB2	1.79	0.48
8:DO:329:ASN:HB3	9:DP:175:VAL:HG21	1.96	0.48
9:EB:256:ASN:CG	8:EC:181:VAL:HG22	2.37	0.48
9:EJ:282:ARG:HH22	9:EJ:288:GLU:CG	2.27	0.48
8:EO:345:ASP:N	8:EO:345:ASP:OD1	2.45	0.48
8:FC:439:SER:OG	9:FD:390:ARG:NH1	2.47	0.48
9:FF:294:PHE:CE2	9:FF:333:VAL:HG21	2.48	0.48
8:FI:151:SER:HB3	8:FI:193:THR:HG21	1.95	0.48
9:FN:337:ASN:HB3	9:FN:340:TYR:HD2	1.79	0.48
8:GA:60:LYS:HE2	8:HA:283:HIS:CD2	2.48	0.48
9:GB:362:LYS:HE2	9:GB:363:MET:HE2	1.94	0.48
8:GE:328:VAL:HG11	8:GE:353:VAL:HG11	1.96	0.48
8:GG:202:PHE:HE1	8:GG:268:PRO:HG2	1.79	0.48
8:GI:60:LYS:HG3	8:HI:282:TYR:CE1	2.49	0.48
9:GJ:151:LEU:O	9:GJ:155:ILE:HG12	2.13	0.48
8:GM:6:SER:HB3	8:GM:8:HIS:NE2	2.29	0.48
17:H:249:LYS:HD3	17:H:249:LYS:N	2.29	0.48
8:HK:28:HIS:HE1	8:HK:243:ARG:HE	1.61	0.48
9:HL:198:GLU:HA	9:HL:264:HIS:HB2	1.95	0.48
9:HN:252:LYS:HZ1	8:HO:101:ASN:CG	2.18	0.48
9:HP:131:GLN:HA	9:HP:162:ARG:HH21	1.78	0.48
9:HP:161:ASP:N	9:HP:161:ASP:OD1	2.46	0.48
8:IC:329:ASN:HA	8:IC:332:ILE:HG22	1.95	0.48
8:II:258:ASN:HD21	8:II:352:LYS:HE3	1.78	0.48
9:IL:159:TYR:HB3	9:IL:162:ARG:HG2	1.96	0.48
9:IL:173:PRO:HD3	9:IL:380:ARG:NE	2.29	0.48
9:IN:336:LYS:NZ	9:IN:337:ASN:OD1	2.38	0.48
9:IP:184:ASN:O	9:IP:188:SER:OG	2.21	0.48
19:J3:201:ALA:HA	19:J3:204:MET:HG3	1.95	0.48
9:JB:246:LEU:H	9:JB:353:VAL:HG23	1.79	0.48
8:JE:297:GLU:CD	8:JE:298:PRO:HD2	2.39	0.48
9:JF:313:VAL:HG13	9:JF:367:PHE:HE1	1.79	0.48
8:JG:15:GLN:HB3	8:JG:228:ASN:HD21	1.79	0.48
9:JH:49:VAL:HG21	9:JH:241:ARG:HG2	1.95	0.48
9:JJ:407:GLU:HA	9:JJ:410:GLU:HG2	1.96	0.48
17:K:209:HIS:ND1	17:K:248:ASP:OD2	2.47	0.48
8:KE:262:TYR:OH	9:KF:391:ARG:O	2.32	0.48
8:KG:254:GLU:O	8:KG:257:THR:OG1	2.32	0.48
9:KH:323:MET:SD	9:KH:323:MET:N	2.87	0.48
9:KJ:58:LYS:HE2	9:LJ:280:GLN:HE22	1.78	0.48
8:KM:70:LEU:HB3	8:KM:98:ASP:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KN:213:ARG:HH22	9:KN:297:LYS:HB3	1.78	0.48
8:LA:234:ILE:HD11	8:LA:302:MET:HE1	1.95	0.48
9:LF:8:GLN:HB3	9:LF:65:LEU:HA	1.96	0.48
9:LJ:345:ILE:HG23	8:LK:398:MET:HE2	1.96	0.48
8:LO:79:ARG:HH21	8:LO:94:THR:HG23	1.79	0.48
9:LP:267:MET:HE2	9:LP:301:ALA:HB3	1.96	0.48
22:M4:147:TYR:HA	17:N:257:PRO:HB3	1.95	0.48
8:MA:230:LEU:HD11	8:MA:368:LEU:HD21	1.96	0.48
8:MO:248:LEU:HB2	8:MO:355:ILE:HG22	1.96	0.48
8:NC:168:GLU:HB3	8:NC:201:ALA:HA	1.96	0.48
9:NL:270:PHE:CD1	9:NL:273:LEU:HD22	2.49	0.48
9:NL:362:LYS:HE3	9:NL:362:LYS:HA	1.94	0.48
9:NP:299:MET:H	9:NP:299:MET:HE3	1.79	0.48
8:OA:245:ASP:HA	8:OA:249:ASN:HD21	1.79	0.48
9:OB:252:LYS:HD3	8:OC:100:ALA:HA	1.94	0.48
9:OF:65:LEU:HD22	9:OF:90:PHE:HD1	1.78	0.48
9:OH:31:ASP:OD1	9:OH:35:THR:N	2.47	0.48
9:OH:267:MET:HE1	9:OH:371:SER:HB3	1.95	0.48
8:OI:51:THR:C	8:OI:64:ARG:HH22	2.22	0.48
9:OP:52:ASN:HB3	9:OP:60:VAL:HG13	1.96	0.48
27:P3:65:GLU:H	27:P3:65:GLU:CD	2.22	0.48
17:P9:150:HIS:HD2	17:P9:153:LEU:HG	1.79	0.48
9:PB:86:ARG:HB2	9:PB:89:ASN:ND2	2.29	0.48
8:PC:252:LEU:HA	8:PC:255:PHE:CE1	2.48	0.48
9:PD:232:THR:HG21	9:PD:268:PRO:HB2	1.95	0.48
9:PF:86:ARG:NH2	9:QF:277:GLY:O	2.47	0.48
9:PF:404:ASP:N	9:PF:404:ASP:OD1	2.45	0.48
9:PL:173:PRO:HD3	9:PL:380:ARG:CZ	2.44	0.48
28:Q2:191:PRO:HA	28:Q2:198:PRO:HA	1.95	0.48
9:QB:147:MET:CE	9:QB:150:LEU:HB3	2.44	0.48
9:QD:207:LEU:HD21	9:QD:225:LEU:HA	1.95	0.48
9:QF:317:PHE:HB2	9:QF:353:VAL:HG22	1.96	0.48
9:QH:169:VAL:HA	9:QH:202:ILE:HG13	1.96	0.48
8:QK:6:SER:HB3	8:QK:8:HIS:CD2	2.48	0.48
8:QK:9:VAL:HB	8:QK:139:HIS:HB3	1.96	0.48
8:QK:186:ASN:O	8:QK:190:THR:OG1	2.26	0.48
8:QM:217:LEU:HD21	8:QM:368:LEU:HD23	1.96	0.48
11:R2:376:ASP:O	11:R2:380:LYS:N	2.39	0.48
8:RE:167:LEU:HD23	8:RE:202:PHE:HE2	1.79	0.48
8:RG:149:PHE:CZ	8:RG:153:LEU:HD21	2.49	0.48
8:RG:385:ALA:HA	8:RG:388:TRP:CD1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RH:54:ALA:HA	9:SF:283:ALA:HB2	1.96	0.48
8:RK:185:TYR:O	8:RK:189:LEU:HG	2.13	0.48
8:RM:8:HIS:H	8:RM:8:HIS:CD2	2.32	0.48
9:RP:28:HIS:CG	9:RP:47:ILE:HG13	2.49	0.48
12:S2:49:PRO:HG2	12:S2:50:TRP:HE3	1.79	0.48
12:S6:436:GLN:CD	12:S6:439:ARG:HH12	2.21	0.48
12:S7:127:LEU:HD22	12:S8:437:ARG:HH11	1.79	0.48
8:SA:311:LYS:HD2	8:SA:436:GLY:HA2	1.94	0.48
9:SB:54:ALA:HA	9:TB:283:ALA:HB2	1.95	0.48
8:SC:289:ALA:O	8:SC:293:ASN:ND2	2.47	0.48
8:SE:185:TYR:CZ	8:SE:398:MET:HE3	2.48	0.48
9:SH:16:ILE:O	9:SH:20:PHE:N	2.46	0.48
9:SH:323:MET:HE1	8:SI:224:TYR:CG	2.49	0.48
9:SJ:138:SER:HA	9:SJ:169:VAL:HB	1.94	0.48
9:SJ:139:LEU:HA	9:SJ:145:SER:HB2	1.94	0.48
14:T2:142:LEU:HD13	14:T2:190:LEU:HB2	1.94	0.48
14:T4:63:ARG:HH22	14:T5:412:LEU:N	2.12	0.48
9:TB:73:MET:SD	9:TB:92:PHE:HB3	2.53	0.48
8:TE:15:GLN:C	8:TE:228:ASN:HD21	2.22	0.48
9:TF:323:MET:HE1	8:TG:223:THR:HA	1.95	0.48
8:TI:169:PHE:CE1	8:TI:235:VAL:HG22	2.49	0.48
9:TJ:313:VAL:HB	9:TJ:349:VAL:HA	1.96	0.48
9:TL:213:ARG:HH21	9:TL:297:LYS:HB2	1.79	0.48
9:TN:165:ASN:HB2	9:TN:200:TYR:CE2	2.49	0.48
30:U0:170:MET:HA	30:U0:170:MET:HE3	1.96	0.48
30:U7:284:GLU:HG2	30:U8:417:VAL:HG23	1.95	0.48
30:U8:300:SER:O	30:U8:304:ILE:HG12	2.13	0.48
8:UC:108:TYR:HA	8:UC:112:LYS:HE3	1.96	0.48
8:UG:108:TYR:HA	8:UG:112:LYS:HE3	1.96	0.48
8:UI:338:LYS:HE2	8:UI:340:THR:HB	1.94	0.48
8:UK:264:ARG:NH1	8:UK:431:ASP:OD2	2.47	0.48
9:UL:344:TRP:H	9:UL:344:TRP:CD1	2.32	0.48
30:V3:462:LEU:O	30:V3:466:LYS:HG2	2.14	0.48
9:VB:253:LEU:O	9:VB:256:ASN:N	2.44	0.48
9:VD:372:THR:HA	9:VD:422:TYR:CE1	2.49	0.48
9:VH:180:VAL:O	9:VH:184:ASN:ND2	2.47	0.48
9:VL:39:ASP:N	9:VL:39:ASP:OD1	2.47	0.48
8:WC:311:LYS:HZ3	8:WC:342:GLN:HB3	1.79	0.48
9:WF:51:TYR:HB3	9:WF:59:TYR:HB3	1.95	0.48
9:WH:193:VAL:O	9:WH:262:ARG:NH2	2.39	0.48
9:WJ:170:VAL:HG21	9:WJ:201:CYS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WJ:267:MET:CB	9:WJ:299:MET:HE1	2.43	0.48
9:WJ:294:PHE:CE2	9:WJ:333:VAL:HG11	2.49	0.48
8:WO:356:ASN:ND2	8:WO:358:GLN:OE1	2.46	0.48
9:WP:214:THR:HG23	9:WP:297:LYS:NZ	2.29	0.48
31:X:543:SER:HA	31:X:601:THR:HG21	1.95	0.48
31:X:553:LYS:NZ	31:X:742:VAL:O	2.39	0.48
34:X8:205:MET:N	34:X8:205:MET:SD	2.87	0.48
34:X8:216:ASP:OD2	34:X8:223:ARG:NH2	2.44	0.48
35:XA:49:ILE:HD11	35:XA:160:CYS:SG	2.54	0.48
35:XC:37:ILE:HD11	35:XC:161:ARG:HH22	1.77	0.48
35:XC:91:VAL:HG22	35:XC:154:VAL:HG22	1.94	0.48
35:XE:129:TRP:HB3	35:XE:183:LEU:HD21	1.95	0.48
39:a:133:LYS:NZ	39:a:134:GLU:OE2	2.42	0.48
39:a:263:GLU:HA	39:a:266:LYS:HD2	1.96	0.48
39:b:522:LEU:HG	39:b:539:GLU:HG2	1.96	0.48
42:f:43:LEU:HD21	42:f:610:ALA:HB2	1.95	0.48
42:f:358:VAL:HG12	42:f:367:LEU:HD12	1.94	0.48
42:g:201:THR:HG22	42:g:239:LEU:HB2	1.96	0.48
42:g:528:TYR:C	42:g:529:TRP:HD1	2.21	0.48
44:h3:75:GLU:OE1	44:h3:75:GLU:N	2.40	0.48
44:h3:128:GLN:O	44:h3:132:ILE:HG13	2.13	0.48
43:k:233:GLU:HA	43:k:236:GLN:HE22	1.77	0.48
1:0:30:LYS:HA	8:JO:215:ARG:NH2	2.29	0.47
3:3:35:GLN:O	3:3:38:LYS:HG3	2.13	0.47
3:3:345:TYR:HE1	3:3:349:ARG:HH21	1.61	0.47
4:5:259:THR:O	4:5:331:ILE:N	2.43	0.47
4:6:201:GLY:O	4:6:205:THR:HG23	2.15	0.47
7:A2:369:GLN:OE1	12:C2:486:LEU:HD23	2.14	0.47
8:AC:180:ALA:HB3	8:AC:183:GLU:HB3	1.94	0.47
9:AD:344:TRP:CD1	9:AD:344:TRP:H	2.32	0.47
8:AE:22:GLU:HG2	33:X4:183:TYR:HE2	1.78	0.47
8:AE:147:SER:OG	8:AE:190:THR:OG1	2.24	0.47
8:AG:5:ILE:HD12	8:AG:64:ARG:HB3	1.96	0.47
8:AG:348:PRO:HD2	9:AH:388:MET:HE3	1.96	0.47
9:AH:317:PHE:CB	9:AH:321:MET:HE1	2.44	0.47
8:AI:282:TYR:HE1	25:V:85:PHE:HD2	1.62	0.47
9:AL:154:LYS:O	9:AL:158:GLU:HG2	2.14	0.47
9:AL:323:MET:HE3	9:AL:323:MET:HB3	1.73	0.47
9:AL:377:LEU:HG	9:AL:380:ARG:HH21	1.77	0.47
8:AM:311:LYS:H	8:AM:382:THR:HG22	1.78	0.47
11:B4:301:GLU:OE1	14:D4:358:TYR:OH	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BE:70:LEU:HB3	8:BE:98:ASP:HA	1.95	0.47
8:BG:358:GLN:HB2	31:X:209:PRO:HB3	1.95	0.47
9:BH:31:ASP:HB3	9:BH:37:HIS:CD2	2.49	0.47
9:BH:191:GLN:NE2	9:BH:194:GLU:OE2	2.47	0.47
8:BM:79:ARG:HG2	8:BM:92:LEU:HD22	1.96	0.47
10:C:242:GLN:HA	10:C:245:ILE:HG12	1.96	0.47
12:C1:172:ASN:ND2	11:R1:412:THR:HG21	2.29	0.47
12:C1:350:ARG:NH1	12:C1:353:GLU:OE1	2.47	0.47
9:CB:213:ARG:HH22	9:CB:297:LYS:HB3	1.79	0.47
9:CB:380:ARG:HA	9:CB:383:GLU:OE1	2.14	0.47
8:CG:152:LEU:HA	8:CG:155:GLU:HG2	1.96	0.47
8:CK:417:GLU:N	8:CK:417:GLU:OE1	2.45	0.47
8:CM:426:ALA:O	8:CM:430:LYS:HG2	2.13	0.47
8:DI:195:LEU:HD12	8:DI:266:HIS:HE1	1.79	0.47
8:DK:276:ILE:HD11	8:DK:286:LEU:HD11	1.95	0.47
8:DQ:53:PHE:HB3	8:DQ:61:HIS:HB3	1.96	0.47
9:EB:313:VAL:HG13	9:EB:367:PHE:HE1	1.78	0.47
8:EK:326:LYS:HD3	9:EL:220:PRO:HG2	1.95	0.47
9:EL:321:MET:HE2	9:EL:321:MET:HA	1.95	0.47
8:EO:79:ARG:HG2	17:Z5:218:ILE:HD11	1.96	0.47
15:F:167:SER:HB2	15:F:184:VAL:HG22	1.94	0.47
9:FB:114:ASP:HB2	36:Y3:58:MET:SD	2.54	0.47
8:FE:93:ILE:HD13	8:FE:117:LEU:HG	1.96	0.47
8:FG:264:ARG:NH1	8:FG:431:ASP:OD2	2.47	0.47
8:FI:113:GLU:N	8:FI:113:GLU:OE1	2.46	0.47
8:GC:151:SER:HB3	8:GC:193:THR:HG21	1.95	0.47
8:GC:319:TYR:N	8:GC:354:GLY:O	2.42	0.47
8:GE:183:GLU:HG3	8:GE:184:PRO:HD3	1.96	0.47
9:GH:211:CYS:SG	9:GH:212:PHE:N	2.86	0.47
8:GI:313:MET:HG3	8:GI:344:VAL:HG11	1.96	0.47
9:GJ:270:PHE:C	9:GJ:293:MET:HE1	2.39	0.47
8:HC:227:LEU:O	8:HC:231:ILE:HG12	2.14	0.47
9:HF:377:LEU:HA	9:HF:380:ARG:HH12	1.78	0.47
8:HG:5:ILE:HD12	8:HG:135:PHE:HE1	1.79	0.47
9:HH:26:ASP:O	9:HH:359:ARG:NH1	2.47	0.47
8:HK:328:VAL:HG11	8:HK:353:VAL:HG21	1.95	0.47
8:IA:121:ARG:HH21	8:IA:124:LYS:HB2	1.79	0.47
8:IA:172:TYR:OH	8:IA:390:ARG:NE	2.44	0.47
9:IF:134:GLN:OE1	9:IF:165:ASN:HB3	2.13	0.47
8:IG:252:LEU:HA	8:IG:255:PHE:CD1	2.49	0.47
9:IH:285:THR:HB	9:IH:287:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IJ:336:LYS:NZ	36:Y1:121:SER:O	2.45	0.47
9:IL:171:PRO:O	9:IL:380:ARG:NH1	2.47	0.47
8:IM:88:HIS:CD2	8:IM:90:GLU:H	2.31	0.47
8:IM:310:GLY:HA3	8:IM:383:ALA:HB2	1.95	0.47
8:IO:326:LYS:HA	9:IP:208:TYR:HH	1.79	0.47
8:JC:391:LEU:HD12	8:JC:394:LYS:HE2	1.95	0.47
9:JD:282:ARG:O	9:JD:282:ARG:HG3	2.13	0.47
9:JF:65:LEU:HD22	9:JF:90:PHE:HE1	1.79	0.47
9:JF:75:SER:HA	9:JF:78:SER:HB3	1.96	0.47
9:JF:83:GLN:O	9:JF:84:ILE:HD13	2.14	0.47
9:JF:132:GLY:HA2	9:JF:162:ARG:HB3	1.96	0.47
9:JJ:325:GLU:H	9:JJ:325:GLU:CD	2.18	0.47
9:JP:406:MET:HE2	9:JP:406:MET:HB3	1.76	0.47
20:K1:44:LEU:HD23	20:K1:76:ALA:HB2	1.95	0.47
9:KB:375:GLN:NE2	9:KB:419:VAL:HB	2.29	0.47
8:LE:111:GLY:O	8:LE:115:VAL:HG23	2.14	0.47
9:LL:163:ILE:C	9:LL:164:MET:HE2	2.39	0.47
8:LM:167:LEU:HD21	8:LM:255:PHE:HZ	1.79	0.47
8:MC:46:ASP:N	8:MC:46:ASP:OD1	2.46	0.47
8:MG:60:LYS:HZ3	8:MG:62:VAL:HG22	1.78	0.47
8:MG:127:ASP:N	8:MG:127:ASP:OD1	2.47	0.47
9:MH:342:VAL:HG21	9:MH:345:ILE:HD12	1.94	0.47
8:MK:215:ARG:HH21	43:j:127:ASP:CG	2.22	0.47
8:MM:423:GLU:HB2	43:k:26:ARG:CZ	2.44	0.47
8:NC:248:LEU:HD13	8:NC:355:ILE:HD13	1.95	0.47
8:NE:133:GLN:HB3	8:NE:252:LEU:HD21	1.96	0.47
8:NE:141:PHE:HB2	8:NE:173:PRO:HD3	1.95	0.47
9:NF:262:ARG:HH12	9:NF:421:GLU:HB3	1.78	0.47
9:NH:69:GLU:OE2	9:NH:71:GLY:N	2.24	0.47
8:NI:9:VAL:HG11	8:NI:150:ALA:HB2	1.96	0.47
9:NJ:47:ILE:HD12	9:NJ:59:TYR:CZ	2.49	0.47
9:NL:302:ALA:HB3	9:NL:377:LEU:HD21	1.96	0.47
8:NM:105:ARG:HH21	8:NM:110:ILE:HD11	1.78	0.47
9:NN:150:LEU:HG	9:NN:154:LYS:HE2	1.96	0.47
9:OD:167:PHE:CD2	9:OD:233:MET:HG2	2.49	0.47
8:OE:317:MET:HE2	8:OE:317:MET:H	1.77	0.47
9:OH:344:TRP:H	9:OH:344:TRP:CD1	2.32	0.47
9:OJ:240:LEU:HD21	9:OJ:250:LEU:HG	1.96	0.47
9:OJ:318:ARG:NH2	9:OJ:358:PRO:HA	2.29	0.47
27:P3:171:ARG:HH12	11:R1:23:LEU:HD12	1.79	0.47
27:P4:160:HIS:O	27:P4:161:HIS:ND1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PJ:180:VAL:HG23	9:PJ:184:ASN:HD21	1.79	0.47
8:PK:385:ALA:HA	8:PK:388:TRP:CZ3	2.49	0.47
8:PM:173:PRO:O	8:PM:390:ARG:NH2	2.46	0.47
9:PP:167:PHE:CE2	9:PP:233:MET:HG2	2.49	0.47
28:Q5:53:PRO:HA	12:S9:246:SER:OG	2.14	0.47
9:QD:199:THR:N	9:QD:264:HIS:O	2.41	0.47
8:QG:262:TYR:HD2	8:QG:265:ILE:HD12	1.79	0.47
9:QN:86:ARG:HH11	9:RN:281:TYR:HD2	1.61	0.47
9:QP:72:THR:O	9:QP:75:SER:OG	2.29	0.47
9:QP:135:LEU:HD12	9:QP:136:THR:N	2.29	0.47
11:R1:332:ASP:N	11:R1:332:ASP:OD1	2.46	0.47
11:R2:3:THR:HG23	11:R2:4:LEU:HD13	1.94	0.47
9:RD:7:LEU:HD11	9:RD:133:PHE:HB3	1.96	0.47
8:RE:345:ASP:N	8:RE:345:ASP:OD1	2.42	0.47
8:RE:350:GLY:HA2	9:RF:179:VAL:HG22	1.96	0.47
9:RJ:209:ASP:O	9:RJ:213:ARG:HG2	2.14	0.47
8:RK:53:PHE:HB3	8:RK:61:HIS:HB3	1.96	0.47
8:RK:70:LEU:HB3	8:RK:98:ASP:HA	1.96	0.47
9:RL:282:ARG:NE	9:RL:288:GLU:OE1	2.46	0.47
12:S1:415:MET:SD	12:S1:416:ALA:N	2.87	0.47
12:S2:121:ARG:NH1	12:S3:371:GLU:OE2	2.45	0.47
12:S5:126:ARG:O	12:S5:129:GLN:HG3	2.14	0.47
12:S8:114:ARG:O	12:S8:117:SER:OG	2.32	0.47
9:SD:112:LEU:HD22	9:SD:147:MET:HE1	1.96	0.47
9:SF:31:ASP:OD1	9:SF:35:THR:N	2.47	0.47
8:SG:289:ALA:O	8:SG:293:ASN:ND2	2.47	0.47
9:SH:412:GLU:HA	9:SH:415:MET:HE1	1.96	0.47
9:SJ:54:ALA:HA	9:TJ:283:ALA:HB2	1.95	0.47
14:T3:201:ILE:O	14:T3:205:ARG:HG3	2.14	0.47
9:TD:73:MET:N	9:TD:73:MET:HE2	2.29	0.47
8:TG:66:VAL:HG21	8:TG:122:ILE:HG22	1.96	0.47
9:TH:404:ASP:OD1	9:TH:404:ASP:N	2.44	0.47
8:TK:277:SER:O	8:TK:281:ALA:N	2.46	0.47
30:U0:135:GLN:OE1	30:U0:135:GLN:N	2.36	0.47
30:U7:110:ARG:HH12	30:U8:363:LYS:C	2.22	0.47
30:U8:329:SER:HA	30:U8:332:MET:HE3	1.95	0.47
8:UA:215:ARG:NH2	8:UA:300:ASN:OD1	2.42	0.47
8:UA:264:ARG:NH1	8:UA:431:ASP:OD2	2.47	0.47
9:UB:170:VAL:HG11	9:UB:377:LEU:HD11	1.96	0.47
9:UF:7:LEU:HG	9:UF:135:LEU:HD13	1.96	0.47
9:UF:65:LEU:HD12	9:UF:66:VAL:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UG:56:THR:HG22	8:UG:60:LYS:H	1.79	0.47
9:UH:245:GLN:HE22	8:UI:224:TYR:H	1.60	0.47
8:UI:223:THR:OG1	8:UI:224:TYR:N	2.47	0.47
8:UO:132:LEU:HD21	8:UO:135:PHE:CE2	2.49	0.47
25:V:141:SER:HB2	25:V:143:ILE:HD12	1.96	0.47
30:V4:184:VAL:C	30:V4:187:PRO:HD2	2.39	0.47
30:V9:385:LYS:HB3	30:V9:427:LEU:HD21	1.96	0.47
8:VA:119:LEU:O	8:VA:122:ILE:HG22	2.14	0.47
8:VA:188:ILE:O	8:VA:191:THR:OG1	2.23	0.47
8:VI:135:PHE:CD1	8:VI:166:LYS:HG2	2.48	0.47
8:VM:437:VAL:O	9:VN:391:ARG:NH2	2.37	0.47
9:VN:256:ASN:HB3	9:VN:257:MET:HE2	1.96	0.47
31:W:321:ASP:OD1	31:W:321:ASP:N	2.46	0.47
30:W0:205:ASP:HB3	30:W0:461:THR:HG21	1.96	0.47
30:W2:399:ARG:HH21	30:W2:402:ARG:HH12	1.59	0.47
30:W2:440:THR:O	30:W2:444:LEU:HG	2.13	0.47
30:W7:170:MET:HE1	30:W7:318:ARG:HG2	1.96	0.47
30:W7:240:ILE:O	30:W7:244:ARG:HG3	2.14	0.47
8:WA:2:ARG:HB3	8:WA:242:LEU:HD23	1.96	0.47
9:WB:323:MET:HE1	8:WC:223:THR:HA	1.96	0.47
8:WE:27:GLU:OE2	8:WE:236:SER:OG	2.22	0.47
8:WK:132:LEU:HD23	8:WK:164:LYS:HE3	1.96	0.47
9:WL:274:THR:HB	9:WL:278:SER:HB2	1.96	0.47
8:WM:276:ILE:HB	8:WM:280:LYS:HB3	1.95	0.47
9:WP:10:GLY:O	9:WP:14:ASN:ND2	2.47	0.47
35:XF:115:LYS:HB3	35:XF:116:PRO:HD2	1.94	0.47
31:Y:304:LEU:N	31:Y:319:LEU:O	2.41	0.47
37:YF:146:ARG:HG3	37:YF:205:ILE:HD11	1.95	0.47
31:Z:144:ASP:N	31:Z:144:ASP:OD1	2.46	0.47
39:a6:127:ARG:HE	39:a6:131:LEU:HD21	1.79	0.47
41:b4:267:ILE:HG13	41:b4:301:LYS:HB2	1.95	0.47
41:b4:326:GLN:O	41:b4:330:ASN:ND2	2.47	0.47
41:b5:182:ARG:HH21	41:b5:336:LEU:HG	1.78	0.47
39:c:345:LYS:HA	39:c:345:LYS:HE3	1.96	0.47
42:e:341:PRO:HB3	43:i:10:ILE:HD12	1.96	0.47
42:e:513:GLU:HB3	42:e:515:PHE:CE2	2.48	0.47
42:e:538:ARG:NH2	42:e:575:ASN:O	2.45	0.47
42:f:516:GLN:OE1	42:f:516:GLN:N	2.47	0.47
42:g:351:CYS:HB3	42:g:380:ILE:HB	1.96	0.47
45:i1:87:THR:O	45:i1:91:ASN:ND2	2.46	0.47
46:i2:1341:ARG:O	46:i2:1345:ARG:N	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:s:71:LEU:O	48:s:75:LEU:HB2	2.13	0.47
2:2:350:SER:OG	9:IL:219:THR:O	2.32	0.47
2:2:361:PRO:HB2	18:I1:92:PHE:HD2	1.79	0.47
4:5:96:ASP:OD1	4:5:97:TYR:N	2.47	0.47
7:A3:26:ARG:NH2	31:X:62:LYS:O	2.47	0.47
7:A3:68:GLU:OE1	11:B3:270:ARG:NH1	2.45	0.47
7:A3:68:GLU:O	11:B3:270:ARG:NH2	2.46	0.47
8:AA:168:GLU:HG3	8:AA:194:THR:HG22	1.96	0.47
8:AC:278:ALA:HA	8:AC:369:ALA:HB2	1.96	0.47
9:AF:151:LEU:O	9:AF:155:ILE:HG13	2.14	0.47
9:AJ:313:VAL:O	9:AJ:349:VAL:HA	2.14	0.47
10:B:124:LEU:HD11	10:C:452:LEU:HD11	1.94	0.47
11:B4:123:ARG:NH2	11:B4:129:VAL:O	2.26	0.47
11:B5:262:GLU:O	11:B5:266:ARG:HG3	2.13	0.47
8:BC:119:LEU:HD11	8:BC:156:ARG:HG2	1.97	0.47
9:BF:161:ASP:N	9:BF:161:ASP:OD1	2.47	0.47
9:BP:378:PHE:HB3	9:BP:415:MET:SD	2.54	0.47
10:C:366:GLN:HG3	10:C:369:LYS:CE	2.45	0.47
12:C1:87:ARG:HG2	17:O9:186:TYR:HB3	1.97	0.47
12:C1:407:PRO:O	12:C1:411:LEU:N	2.47	0.47
9:CB:267:MET:HE3	9:CB:374:ILE:HD13	1.96	0.47
8:CC:189:LEU:O	8:CC:192:HIS:ND1	2.47	0.47
9:CD:69:GLU:HG2	9:CD:71:GLY:H	1.80	0.47
8:CG:27:GLU:OE1	8:CG:243:ARG:NH2	2.47	0.47
8:CK:39:ASP:OD2	40:a3:87:HIS:NE2	2.44	0.47
9:CL:217:LEU:HD22	9:CL:220:PRO:HB3	1.96	0.47
8:CM:49:PHE:HB2	8:CM:53:PHE:HD2	1.79	0.47
8:CQ:85:GLN:O	8:DQ:283:HIS:NE2	2.40	0.47
8:CQ:426:ALA:O	8:CQ:430:LYS:HG2	2.14	0.47
14:D1:98:ASP:O	14:D1:102:LYS:HG2	2.14	0.47
14:D1:437:TYR:CD1	14:D1:438:PRO:HD2	2.48	0.47
14:D2:226:ASP:O	14:D2:230:ARG:HG2	2.14	0.47
9:DB:324:LYS:HD3	8:DC:210:TYR:CG	2.50	0.47
8:DC:194:THR:O	8:DC:266:HIS:NE2	2.43	0.47
8:DK:151:SER:O	8:DK:155:GLU:HG2	2.14	0.47
9:DP:113:VAL:HG11	9:DP:150:LEU:HD23	1.96	0.47
8:EA:248:LEU:HD21	52:EB:502:GDP:H2'	1.96	0.47
8:EA:280:LYS:HE2	8:EA:280:LYS:HA	1.95	0.47
9:ED:181:GLU:CD	9:ED:182:PRO:HD3	2.39	0.47
8:EE:339:ARG:O	8:EE:339:ARG:CZ	2.62	0.47
9:EH:274:THR:HB	9:EH:278:SER:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EM:215:ARG:NH2	8:EM:299:ALA:O	2.48	0.47
15:F:169:HIS:NE2	9:KP:26:ASP:OD2	2.47	0.47
8:FA:417:GLU:OE1	8:FA:417:GLU:N	2.43	0.47
9:FD:128:ASP:OD1	9:FD:128:ASP:N	2.46	0.47
8:FE:111:GLY:C	8:FE:115:VAL:HG13	2.38	0.47
9:FH:1:MET:HE3	9:FH:2:ARG:H	1.79	0.47
8:FK:88:HIS:HE2	8:GK:280:LYS:HD2	1.79	0.47
9:GB:5:VAL:HB	9:GB:133:PHE:CD1	2.48	0.47
9:GD:165:ASN:HD21	9:GD:250:LEU:HD11	1.78	0.47
8:GG:115:VAL:HG22	8:GG:152:LEU:HD13	1.95	0.47
8:GG:241:SER:HB3	8:GG:250:VAL:H	1.79	0.47
9:GL:177:ASP:OD1	9:GL:178:THR:OG1	2.29	0.47
9:GL:371:SER:OG	9:GL:372:THR:N	2.48	0.47
8:GO:138:PHE:CD1	8:GO:169:PHE:HB2	2.48	0.47
8:HE:10:GLY:O	8:HE:14:VAL:HG13	2.14	0.47
9:HH:10:GLY:O	9:HH:14:ASN:ND2	2.47	0.47
9:HH:23:VAL:HG11	9:HH:230:SER:HB3	1.96	0.47
9:HJ:249:ASP:H	9:HJ:252:LYS:HB2	1.79	0.47
8:HO:114:ILE:O	8:HO:118:VAL:HG22	2.14	0.47
9:HP:8:GLN:HB3	9:HP:65:LEU:HA	1.95	0.47
9:IF:191:GLN:OE1	9:IF:191:GLN:N	2.48	0.47
8:IG:180:ALA:HB3	8:IG:183:GLU:HB2	1.96	0.47
8:IG:207:GLU:O	8:IG:210:TYR:HB2	2.14	0.47
8:IK:121:ARG:NH2	8:IK:124:LYS:HB2	2.28	0.47
9:IL:344:TRP:H	9:IL:344:TRP:CD1	2.32	0.47
8:IO:114:ILE:O	8:IO:118:VAL:HG22	2.13	0.47
9:JH:419:VAL:O	9:JH:423:GLN:N	2.45	0.47
9:JL:203:ASP:HB3	9:JL:301:ALA:HA	1.95	0.47
9:JL:289:LEU:HD21	9:JL:363:MET:SD	2.54	0.47
9:KB:31:ASP:OD1	9:KB:35:THR:N	2.47	0.47
9:KH:237:THR:HG22	9:KH:250:LEU:HD21	1.95	0.47
9:KJ:16:ILE:HD11	9:KJ:136:THR:HB	1.96	0.47
9:KJ:198:GLU:HA	9:KJ:264:HIS:HB2	1.95	0.47
9:KJ:271:ALA:HB1	9:KJ:289:LEU:HD22	1.96	0.47
8:KK:338:LYS:HZ2	8:KK:340:THR:H	1.62	0.47
9:KN:176:SER:OG	9:KN:181:GLU:OE1	2.30	0.47
9:LD:345:ILE:HG23	8:LE:398:MET:HE2	1.96	0.47
9:LF:128:ASP:OD2	8:LG:96:LYS:NZ	2.44	0.47
9:LF:322:SER:OG	8:LG:222:PRO:O	2.27	0.47
8:LG:137:ILE:HG21	8:LG:154:MET:HE1	1.96	0.47
8:LK:269:LEU:HD22	8:LK:303:VAL:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LL:108:GLU:OE1	9:LL:108:GLU:N	2.47	0.47
8:LM:370:LYS:NZ	8:LM:371:VAL:O	2.46	0.47
9:LN:151:LEU:O	9:LN:155:ILE:HG12	2.14	0.47
9:MB:172:SER:HB2	9:MB:203:ASP:OD1	2.14	0.47
9:MB:200:TYR:CE2	9:MB:368:ILE:HD11	2.49	0.47
8:ME:112:LYS:HD2	8:ME:112:LYS:HA	1.69	0.47
8:ME:269:LEU:HD21	8:ME:384:ILE:HB	1.96	0.47
8:MG:298:PRO:HG3	8:MG:308:ARG:NH2	2.29	0.47
8:MK:91:GLN:HA	8:MK:121:ARG:NH1	2.29	0.47
9:ML:334:GLN:HE22	9:ML:348:ASN:H	1.61	0.47
8:MM:180:ALA:HB3	8:MM:183:GLU:HB3	1.96	0.47
8:MM:326:LYS:HG3	9:MN:212:PHE:HZ	1.79	0.47
9:MN:324:LYS:NZ	8:MO:210:TYR:O	2.46	0.47
8:MO:70:LEU:HD12	8:MO:145:THR:HG22	1.95	0.47
9:MP:2:ARG:HH21	9:MP:46:ARG:HH12	1.61	0.47
9:MP:20:PHE:CE1	9:MP:24:ILE:HD13	2.49	0.47
9:MP:28:HIS:NE2	9:MP:241:ARG:HD3	2.29	0.47
8:NA:121:ARG:HH21	8:NA:124:LYS:HB2	1.80	0.47
9:NB:16:ILE:HA	9:NB:226:ASN:OD1	2.14	0.47
8:NC:6:SER:HB3	8:NC:8:HIS:NE2	2.29	0.47
8:NC:206:ASN:HB3	8:NC:210:TYR:CZ	2.49	0.47
8:NC:248:LEU:HD11	9:ND:222:TYR:HE2	1.79	0.47
9:ND:117:LEU:HD11	9:ND:154:LYS:HD3	1.96	0.47
9:ND:372:THR:HG21	9:ND:426:GLN:HB2	1.96	0.47
8:NE:88:HIS:CD2	8:NE:90:GLU:HB3	2.49	0.47
8:NE:317:MET:HE3	8:NE:319:TYR:CZ	2.49	0.47
8:NG:132:LEU:HB3	8:NG:164:LYS:NZ	2.29	0.47
8:NG:414:GLU:CD	8:NG:416:GLY:H	2.22	0.47
8:NI:194:THR:O	8:NI:266:HIS:NE2	2.42	0.47
9:NJ:143:THR:HG1	9:NJ:144:GLY:H	1.62	0.47
8:NK:7:ILE:HB	8:NK:137:ILE:HG23	1.95	0.47
9:NL:184:ASN:O	9:NL:188:SER:OG	2.22	0.47
8:NM:345:ASP:N	8:NM:345:ASP:OD1	2.44	0.47
9:OD:271:ALA:HB1	9:OD:289:LEU:HG	1.96	0.47
8:OE:167:LEU:H	8:OE:167:LEU:HD23	1.79	0.47
9:OF:303:CYS:HB2	9:OF:376:GLU:OE1	2.14	0.47
9:OH:20:PHE:HZ	9:OH:233:MET:HB2	1.79	0.47
9:OH:146:GLY:O	9:OH:149:THR:OG1	2.31	0.47
8:OI:7:ILE:HB	8:OI:137:ILE:HD13	1.95	0.47
8:OK:214:ARG:HE	36:Y4:45:LYS:HZ1	1.61	0.47
8:OM:259:LEU:HD21	8:OM:316:CYS:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OO:214:ARG:HA	8:OO:219:ILE:O	2.15	0.47
8:OO:316:CYS:HB3	8:OO:378:LEU:HB2	1.96	0.47
9:OP:268:PRO:HA	9:OP:368:ILE:HD13	1.97	0.47
17:P9:178:LEU:HD13	30:W7:40:PHE:CZ	2.48	0.47
8:PC:88:HIS:O	8:PC:91:GLN:HG2	2.14	0.47
8:PC:325:PRO:HA	8:PC:328:VAL:HB	1.96	0.47
8:PG:398:MET:HG2	8:PG:403:ALA:HB3	1.94	0.47
8:PK:188:ILE:O	8:PK:191:THR:OG1	2.32	0.47
8:PM:6:SER:HA	8:PM:136:LEU:O	2.15	0.47
8:PM:132:LEU:HD23	8:PM:132:LEU:HA	1.79	0.47
8:PM:317:MET:HE2	8:PM:317:MET:HB2	1.81	0.47
9:QB:50:TYR:CE2	9:QB:241:ARG:HD3	2.49	0.47
9:QD:322:SER:HB3	8:QE:221:ARG:NE	2.28	0.47
9:QF:325:GLU:H	8:QG:221:ARG:NH2	2.11	0.47
9:QH:19:LYS:HD2	9:QH:19:LYS:HA	1.65	0.47
9:QH:305:PRO:HA	9:QH:373:ALA:HB2	1.96	0.47
9:QL:45:GLU:HG2	9:QL:46:ARG:HG3	1.96	0.47
9:QN:324:LYS:HG3	8:QO:222:PRO:HD2	1.96	0.47
11:R4:120:ARG:NH2	11:R4:131:ASP:OD2	2.43	0.47
11:R4:209:PRO:O	11:R4:212:SER:OG	2.28	0.47
9:RD:73:MET:N	9:RD:73:MET:SD	2.86	0.47
9:RD:146:GLY:O	9:RD:149:THR:OG1	2.29	0.47
9:RD:388:MET:HE1	9:RD:394:PHE:CD2	2.49	0.47
9:RF:324:LYS:HB2	8:RG:221:ARG:HH21	1.78	0.47
8:RI:169:PHE:HA	8:RI:202:PHE:HB2	1.96	0.47
8:RI:302:MET:SD	8:RI:303:VAL:HG23	2.54	0.47
9:RL:48:ASN:O	9:RL:62:ARG:NH2	2.47	0.47
8:RM:333:ALA:HB2	9:RN:174:LYS:NZ	2.29	0.47
9:RN:5:VAL:HG22	9:RN:62:ARG:HD2	1.95	0.47
9:RP:236:VAL:HG13	9:RP:237:THR:HG23	1.95	0.47
12:S0:151:ASN:ND2	4:j1:161:SER:O	2.40	0.47
12:S3:270:LYS:HE3	12:S4:402:GLU:HG3	1.95	0.47
12:S4:152:ASP:OD1	12:S4:152:ASP:N	2.47	0.47
12:S6:279:GLU:O	14:T2:15:GLN:NE2	2.47	0.47
12:S9:436:GLN:O	12:S9:439:ARG:HG2	2.14	0.47
8:SA:413:MET:HE3	8:SA:414:GLU:H	1.78	0.47
9:SB:147:MET:HE2	9:SB:151:LEU:HD21	1.94	0.47
9:SB:321:MET:HE3	9:SB:363:MET:HE2	1.95	0.47
9:SB:324:LYS:HD3	8:SC:210:TYR:CG	2.49	0.47
9:SD:252:LYS:HA	8:SE:100:ALA:HB1	1.95	0.47
9:SD:271:ALA:O	9:SD:292:GLN:NE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SH:84:ILE:O	9:SH:86:ARG:NH1	2.46	0.47
8:SI:189:LEU:HD21	8:SI:418:PHE:CD1	2.49	0.47
8:SK:264:ARG:NH1	8:SK:431:ASP:OD2	2.46	0.47
14:T1:239:GLN:OE1	14:T1:240:PHE:N	2.48	0.47
14:T1:323:ARG:HH22	14:T1:324:LYS:HG2	1.79	0.47
14:T4:159:ARG:HH21	14:T4:162:ARG:CZ	2.27	0.47
9:TF:305:PRO:HA	9:TF:373:ALA:HB2	1.95	0.47
9:TH:268:PRO:HG2	9:TH:300:MET:SD	2.54	0.47
9:TJ:8:GLN:HE21	9:TJ:14:ASN:HA	1.79	0.47
9:TJ:61:PRO:HD3	9:TJ:84:ILE:HG22	1.97	0.47
25:U:87:PRO:HB2	25:U:89:HIS:CE1	2.49	0.47
25:U:260:ARG:HH12	25:U:285:ARG:HD2	1.78	0.47
30:U0:198:ARG:NH2	30:U0:212:GLU:OE1	2.39	0.47
30:U0:200:LYS:NZ	30:U5:252:ARG:HD2	2.28	0.47
30:U5:140:ARG:NH2	30:V1:143:GLY:O	2.48	0.47
30:U5:354:LYS:HG2	30:U5:358:GLN:NE2	2.29	0.47
30:U8:110:ARG:HD2	30:U8:110:ARG:HA	1.69	0.47
8:UA:269:LEU:HD22	8:UA:303:VAL:HG21	1.95	0.47
8:UA:282:TYR:OH	39:c:482:VAL:HB	2.14	0.47
9:UB:166:THR:HG23	9:UB:199:THR:HG23	1.96	0.47
8:UC:279:GLU:HA	8:UC:282:TYR:CE2	2.49	0.47
8:UG:1:MET:SD	8:UG:2:ARG:N	2.87	0.47
8:UI:120:ASP:O	8:UI:124:LYS:HG2	2.15	0.47
8:UK:88:HIS:CD2	8:VK:283:HIS:HB2	2.49	0.47
9:UN:146:GLY:O	9:UN:149:THR:OG1	2.33	0.47
9:UN:156:ARG:HD3	9:UN:164:MET:HE3	1.96	0.47
25:V:23:THR:OG1	25:V:24:ALA:N	2.46	0.47
30:V0:436:GLU:O	30:V0:440:THR:HG23	2.15	0.47
30:V3:308:GLN:HA	30:V3:311:ARG:HE	1.79	0.47
30:V3:417:VAL:HA	30:V4:284:GLU:HG2	1.96	0.47
30:V7:270:LEU:N	30:V7:275:ASP:CG	2.68	0.47
8:VI:88:HIS:NE2	8:VI:90:GLU:HB3	2.29	0.47
8:VI:114:ILE:O	8:VI:118:VAL:HG12	2.15	0.47
9:VJ:234:SER:O	9:VJ:238:THR:OG1	2.32	0.47
8:VK:7:ILE:O	8:VK:9:VAL:HG23	2.14	0.47
9:VL:325:GLU:OE2	8:VM:221:ARG:NH1	2.47	0.47
8:VM:152:LEU:HB2	8:VM:156:ARG:NH2	2.28	0.47
31:W:593:LYS:HD3	31:W:593:LYS:N	2.29	0.47
9:WF:245:GLN:OE1	9:WF:353:VAL:HG11	2.14	0.47
8:WI:167:LEU:HD21	8:WI:255:PHE:HZ	1.79	0.47
9:WJ:22:GLU:HG2	9:WJ:81:PHE:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WL:156:ARG:HA	9:WL:156:ARG:HD2	1.63	0.47
8:WO:70:LEU:HB3	8:WO:98:ASP:HA	1.95	0.47
33:X4:135:THR:HG21	33:X4:174:PHE:HD2	1.79	0.47
34:X7:127:HIS:ND1	34:X7:191:LYS:HD2	2.28	0.47
35:XD:17:ILE:HD13	35:XD:163:ARG:HH22	1.80	0.47
37:YD:164:GLU:HG3	37:YD:165:MET:SD	2.53	0.47
31:Z:524:ASN:HD22	31:Z:726:SER:HB2	1.77	0.47
39:a:164:ASP:HA	39:a:167:GLU:OE1	2.13	0.47
39:b:518:LYS:O	39:b:521:LYS:HD2	2.14	0.47
41:b3:324:GLN:O	41:b3:328:ILE:HG12	2.13	0.47
41:b4:488:THR:O	41:b4:491:ARG:NH2	2.47	0.47
42:e:432:ILE:HG12	42:e:444:TRP:HB2	1.95	0.47
42:g:415:ALA:O	42:g:442:ARG:NH1	2.40	0.47
43:i:247:HIS:HB2	47:o:42:THR:HG23	1.95	0.47
3:3:276:GLN:HG2	3:3:279:LYS:HE3	1.95	0.47
4:6:197:PRO:HD2	4:6:203:SER:HA	1.96	0.47
7:A3:212:VAL:HG11	33:X4:308:LEU:HD11	1.95	0.47
7:A5:61:LYS:HE2	11:B5:281:TRP:CZ3	2.49	0.47
8:AA:49:PHE:HE1	8:AA:55:GLU:HB2	1.78	0.47
8:AA:151:SER:HA	8:AA:193:THR:HG21	1.96	0.47
9:AD:135:LEU:HD22	9:AD:152:ILE:HD11	1.96	0.47
8:AE:326:LYS:HD2	9:AF:220:PRO:HD2	1.95	0.47
9:AJ:207:LEU:HB3	9:AJ:225:LEU:HG	1.95	0.47
8:AK:315:CYS:SG	8:AK:377:MET:HE1	2.54	0.47
9:AL:173:PRO:HG3	9:AL:380:ARG:HD2	1.96	0.47
9:AN:237:THR:HG22	9:AN:250:LEU:HD21	1.95	0.47
9:AN:342:VAL:HB	9:AN:344:TRP:CD1	2.50	0.47
8:AO:46:ASP:N	8:AO:46:ASP:OD1	2.46	0.47
8:AO:196:GLU:OE2	8:AO:197:HIS:ND1	2.47	0.47
11:B0:22:TYR:O	11:B0:26:THR:HG23	2.14	0.47
11:B2:353:LYS:HB2	11:B2:353:LYS:HE3	1.68	0.47
9:BF:255:VAL:HG23	8:BG:407:TRP:CD2	2.48	0.47
8:BG:175:PRO:HB3	8:BG:390:ARG:HE	1.79	0.47
9:BJ:46:ARG:HA	9:BJ:46:ARG:HD3	1.69	0.47
9:BL:137:HIS:ND1	9:BL:144:GLY:O	2.45	0.47
8:BM:172:TYR:N	8:BM:204:VAL:O	2.43	0.47
9:BN:30:ILE:HD12	9:BN:59:TYR:HB2	1.96	0.47
9:BP:322:SER:O	9:BP:326:VAL:HG12	2.14	0.47
8:CE:353:VAL:HG22	9:CF:177:ASP:CB	2.43	0.47
8:CG:107:HIS:HA	8:CG:152:LEU:HD23	1.96	0.47
9:CN:304:ASP:HB3	9:CN:307:HIS:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CP:69:GLU:HG2	9:CP:71:GLY:H	1.80	0.47
8:CQ:316:CYS:C	8:CQ:317:MET:HE2	2.39	0.47
14:D0:81:SER:HA	14:D1:394:LYS:CE	2.42	0.47
8:DC:25:CYS:SG	8:DC:86:LEU:HD21	2.54	0.47
8:DC:108:TYR:HA	8:DC:112:LYS:HE3	1.95	0.47
9:DD:377:LEU:O	9:DD:381:ILE:HG13	2.15	0.47
8:DG:139:HIS:NE2	8:DG:154:MET:HE1	2.29	0.47
9:DH:344:TRP:H	9:DH:344:TRP:CD1	2.33	0.47
8:DK:154:MET:SD	8:DK:193:THR:HG22	2.55	0.47
9:DL:323:MET:HB2	9:DL:323:MET:HE3	1.57	0.47
15:E:57:SER:OG	15:E:69:LYS:N	2.47	0.47
8:EA:51:THR:HG21	8:EA:243:ARG:HG2	1.95	0.47
8:EG:234:ILE:HD11	8:EG:272:TYR:HB2	1.95	0.47
9:EH:321:MET:HE2	9:EH:321:MET:HB2	1.81	0.47
8:EI:241:SER:OG	8:EI:250:VAL:N	2.40	0.47
9:EL:267:MET:HB2	9:EL:299:MET:HE2	1.95	0.47
9:EL:325:GLU:OE2	17:N:28:ARG:NH1	2.43	0.47
9:EN:31:ASP:OD1	9:EN:35:THR:N	2.47	0.47
15:F:164:TYR:HB2	15:F:194:ASN:HD22	1.79	0.47
9:FH:128:ASP:OD1	9:FH:129:CYS:N	2.47	0.47
9:FJ:146:GLY:O	9:FJ:149:THR:OG1	2.29	0.47
9:GD:125:GLU:OE2	9:GD:159:TYR:OH	2.31	0.47
8:GE:317:MET:HE2	8:GE:317:MET:HA	1.96	0.47
9:GH:198:GLU:HB2	9:GH:266:PHE:CE1	2.50	0.47
8:GI:91:GLN:HE22	8:GI:125:LEU:HD21	1.80	0.47
9:GN:42:LEU:HD23	9:GN:356:ILE:HD11	1.96	0.47
9:HB:346:PRO:HD2	8:HC:398:MET:HE1	1.96	0.47
8:HE:90:GLU:HB2	8:IE:280:LYS:NZ	2.30	0.47
8:HE:317:MET:HE3	8:HE:351:PHE:CD1	2.48	0.47
9:HF:14:ASN:HD22	9:HF:73:MET:HE1	1.79	0.47
9:HJ:316:VAL:HG12	9:HJ:352:ALA:HB3	1.95	0.47
8:HM:88:HIS:CE1	8:HM:90:GLU:HB3	2.49	0.47
9:HN:128:ASP:OD1	8:HO:96:LYS:NZ	2.39	0.47
8:HO:60:LYS:HE2	8:IO:282:TYR:CE1	2.49	0.47
8:HO:414:GLU:CD	8:HO:416:GLY:H	2.22	0.47
8:IA:317:MET:HE1	8:IA:351:PHE:HB3	1.96	0.47
9:ID:173:PRO:HB3	9:ID:384:GLN:HE21	1.79	0.47
8:IE:303:VAL:HG11	8:IE:384:ILE:HD11	1.96	0.47
9:IF:342:VAL:HB	9:IF:344:TRP:CD1	2.48	0.47
8:IK:56:THR:OG1	8:IK:57:GLY:N	2.46	0.47
8:IM:79:ARG:O	8:IM:84:ARG:HG3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IM:123:ARG:NE	8:IM:127:ASP:OD2	2.41	0.47
8:IO:186:ASN:O	8:IO:190:THR:OG1	2.19	0.47
9:IP:414:ASN:N	9:IP:414:ASN:OD1	2.47	0.47
19:J4:136:ARG:CZ	9:KL:194:GLU:HB3	2.44	0.47
19:J4:219:ARG:HH22	9:KN:195:ASN:CG	2.21	0.47
19:J4:235:LEU:HD13	8:LO:389:ALA:O	2.14	0.47
8:JE:214:ARG:HH21	8:JE:215:ARG:NH2	2.12	0.47
9:JL:134:GLN:HE22	9:JL:165:ASN:ND2	2.13	0.47
9:JN:6:HIS:CE1	9:JN:21:TRP:HE1	2.32	0.47
8:JO:56:THR:HG22	8:JO:60:LYS:H	1.79	0.47
9:KB:313:VAL:HG13	9:KB:367:PHE:HE1	1.79	0.47
8:KC:1:MET:SD	8:KC:1:MET:N	2.80	0.47
8:KE:39:ASP:OD1	8:KE:39:ASP:N	2.39	0.47
8:KG:278:ALA:O	8:KG:282:TYR:N	2.46	0.47
9:KH:379:LYS:HD3	9:KH:419:VAL:HG21	1.95	0.47
8:KI:263:PRO:HG3	9:KJ:396:HIS:CD2	2.49	0.47
9:KL:259:PRO:HG2	9:KL:263:LEU:HD12	1.96	0.47
9:KL:284:LEU:HD21	9:KL:363:MET:HB2	1.96	0.47
8:KO:345:ASP:N	8:KO:345:ASP:OD1	2.34	0.47
8:KO:419:SER:O	8:KO:423:GLU:HG2	2.14	0.47
8:LA:139:HIS:NE2	8:LA:168:GLU:OE2	2.46	0.47
9:LD:271:ALA:O	9:LD:292:GLN:NE2	2.47	0.47
8:LI:196:GLU:OE2	43:j:84:LYS:NZ	2.39	0.47
8:LI:298:PRO:HG3	8:LI:308:ARG:HH21	1.79	0.47
9:LL:68:LEU:HB3	9:LL:96:GLY:HA2	1.95	0.47
9:LP:128:ASP:OD1	9:LP:128:ASP:N	2.47	0.47
9:LP:211:CYS:SG	9:LP:220:PRO:HB3	2.53	0.47
8:MA:90:GLU:HG2	8:MA:121:ARG:HD2	1.96	0.47
9:MB:330:MET:N	9:MB:330:MET:SD	2.87	0.47
8:MC:139:HIS:NE2	8:MC:168:GLU:OE1	2.47	0.47
8:ME:191:THR:HA	8:ME:194:THR:HG22	1.96	0.47
17:N:228:PHE:O	17:N:231:VAL:HG12	2.14	0.47
9:NB:257:MET:HE3	9:NB:257:MET:HB3	1.75	0.47
9:ND:202:ILE:HD13	9:ND:300:MET:HG3	1.97	0.47
8:NE:206:ASN:HD21	50:NE:501:GTP:HN22	1.62	0.47
8:NG:427:ALA:HA	8:NG:430:LYS:HE2	1.96	0.47
9:NH:257:MET:HE1	9:NH:314:ALA:HB2	1.95	0.47
8:NK:115:VAL:O	8:NK:119:LEU:HG	2.15	0.47
9:NL:248:ALA:HA	9:NL:252:LYS:HD3	1.96	0.47
8:NO:288:VAL:O	8:NO:292:THR:HG22	2.14	0.47
24:O4:122:LYS:HA	24:O4:122:LYS:HD2	1.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OB:252:LYS:NZ	50:OC:501:GTP:O3G	2.40	0.47
9:OH:21:TRP:CD2	9:OH:61:PRO:HB3	2.49	0.47
8:OI:133:GLN:HG2	8:OI:252:LEU:HD13	1.95	0.47
9:OL:77:ARG:HH12	9:OL:87:PRO:HG3	1.79	0.47
9:OP:166:THR:HG23	9:OP:199:THR:HG23	1.96	0.47
27:P5:132:PHE:CD2	27:P5:135:LEU:HD12	2.49	0.47
9:PD:328:GLU:HG3	9:PD:331:LEU:HD11	1.95	0.47
9:PF:257:MET:HE2	9:PF:314:ALA:HB2	1.97	0.47
8:PG:180:ALA:HB3	8:PG:183:GLU:HB3	1.96	0.47
9:PH:350:LYS:HD2	8:PI:180:ALA:HA	1.96	0.47
8:PM:14:VAL:HA	8:PM:67:PHE:HD2	1.78	0.47
9:PP:182:PRO:O	9:PP:186:THR:OG1	2.32	0.47
9:QB:246:LEU:HB3	9:QB:353:VAL:HG23	1.96	0.47
9:QB:414:ASN:O	9:QB:418:LEU:N	2.43	0.47
8:QC:154:MET:SD	8:QC:197:HIS:HB3	2.53	0.47
9:QF:324:LYS:HG3	8:QG:222:PRO:HD2	1.96	0.47
8:QG:339:ARG:HH21	8:QG:342:GLN:HG2	1.78	0.47
8:QO:415:GLU:O	8:QO:418:PHE:HB2	2.14	0.47
9:QP:7:LEU:N	9:QP:134:GLN:O	2.47	0.47
11:R4:411:PHE:O	11:R4:412:THR:CB	2.62	0.47
9:RD:52:ASN:HB2	9:RD:60:VAL:HG12	1.95	0.47
8:RE:185:TYR:CZ	8:RE:398:MET:HE1	2.49	0.47
9:RH:252:LYS:HZ3	8:RI:100:ALA:HA	1.79	0.47
8:RI:2:ARG:HB3	8:RI:242:LEU:HD23	1.95	0.47
8:RI:167:LEU:HD21	8:RI:255:PHE:HZ	1.79	0.47
9:RJ:5:VAL:HB	9:RJ:133:PHE:HD1	1.78	0.47
9:RJ:173:PRO:HG3	9:RJ:380:ARG:HG2	1.96	0.47
9:RJ:198:GLU:HB2	9:RJ:266:PHE:HE2	1.80	0.47
9:RJ:327:ASP:HA	9:RJ:330:MET:SD	2.54	0.47
8:RO:136:LEU:HG	8:RO:138:PHE:CZ	2.49	0.47
12:S6:153:LEU:HB2	12:S6:265:LEU:HD13	1.96	0.47
8:SA:271:THR:HB	8:SA:377:MET:HB3	1.96	0.47
9:SB:114:ASP:N	9:SB:114:ASP:OD1	2.45	0.47
8:SE:353:VAL:HB	9:SF:177:ASP:HB2	1.96	0.47
8:SI:263:PRO:HG3	9:SJ:396:HIS:CD2	2.48	0.47
8:SI:268:PRO:HD3	8:SI:380:ASN:CG	2.40	0.47
9:SJ:130:LEU:HG	9:SJ:162:ARG:CD	2.45	0.47
9:SJ:219:THR:O	9:SJ:219:THR:OG1	2.28	0.47
8:SM:203:MET:HE1	8:SM:267:PHE:HD1	1.78	0.47
14:T2:363:ARG:NH1	14:T2:369:CYS:H	2.12	0.47
14:T4:276:VAL:HG22	14:T4:279:ARG:HH21	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TB:113:VAL:HG13	9:TB:147:MET:HE1	1.97	0.47
9:TF:313:VAL:HG13	9:TF:367:PHE:CE1	2.50	0.47
8:TK:248:LEU:H	8:TK:355:ILE:HG23	1.79	0.47
8:TM:319:TYR:CE2	8:TM:328:VAL:HG22	2.49	0.47
9:TN:299:MET:SD	9:TN:300:MET:N	2.86	0.47
30:U5:83:ARG:HD3	30:U6:216:ILE:HD13	1.96	0.47
30:U6:140:ARG:NH2	30:V2:143:GLY:O	2.47	0.47
30:U6:141:ASN:HD22	30:U7:415:ARG:HG3	1.79	0.47
30:U7:479:THR:HG23	30:U7:480:PRO:HD3	1.96	0.47
9:UB:8:GLN:HB3	9:UB:65:LEU:HA	1.95	0.47
9:UD:51:TYR:HB3	9:UD:59:TYR:HB3	1.95	0.47
8:UI:114:ILE:HG23	8:UI:117:LEU:HD23	1.96	0.47
8:UM:7:ILE:HB	8:UM:137:ILE:HG12	1.95	0.47
8:UM:302:MET:HE3	8:UM:302:MET:HA	1.96	0.47
8:UO:264:ARG:NH1	8:UO:431:ASP:OD2	2.47	0.47
30:V0:407:LEU:HD23	30:V1:289:THR:HA	1.96	0.47
30:V0:411:VAL:HG22	30:V1:145:ARG:NH2	2.28	0.47
30:V7:375:ILE:HG12	30:V7:437:THR:HG23	1.96	0.47
30:V8:479:THR:HG23	30:V8:480:PRO:HD3	1.96	0.47
8:VA:387:ALA:O	8:VA:390:ARG:HG3	2.14	0.47
9:VF:52:ASN:HB3	9:VF:60:VAL:HG23	1.96	0.47
8:VG:105:ARG:HH21	8:VG:110:ILE:HG13	1.80	0.47
8:VI:203:MET:HE1	8:VI:303:VAL:HG13	1.95	0.47
8:VM:325:PRO:HA	8:VM:328:VAL:HB	1.95	0.47
9:VN:310:TYR:CD1	9:VN:371:SER:HB2	2.49	0.47
30:W2:257:LYS:NZ	30:W2:296:TRP:HE1	2.12	0.47
30:W6:464:ILE:HA	30:W6:468:LYS:HD2	1.97	0.47
8:WE:217:LEU:HD11	8:WE:367:ASP:HB2	1.96	0.47
9:WF:125:GLU:OE2	9:WF:159:TYR:OH	2.30	0.47
9:WF:192:LEU:O	9:WF:196:THR:HB	2.15	0.47
9:WH:78:SER:OG	42:f:203:GLN:O	2.25	0.47
9:WH:299:MET:HE3	9:WH:299:MET:HB3	1.55	0.47
8:WK:132:LEU:O	8:WK:164:LYS:NZ	2.30	0.47
9:WL:287:PRO:HA	9:WL:329:GLN:NE2	2.29	0.47
9:WN:74:ASP:HA	9:WN:77:ARG:HG2	1.96	0.47
34:X8:75:VAL:HA	34:X8:90:MET:HA	1.96	0.47
31:Y:37:SER:OG	31:Y:39:ASN:OD1	2.29	0.47
31:Y:622:ARG:O	31:Y:626:LYS:HG2	2.14	0.47
37:YF:97:PHE:HA	37:YF:115:ILE:HD11	1.96	0.47
37:YH:227:ASN:O	37:YH:231:MET:HG2	2.14	0.47
17:Z2:225:VAL:HG12	17:Z2:228:PHE:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:a:85:ASP:OD1	39:a:86:MET:HG3	2.13	0.47
39:a:339:MET:HE2	39:a:339:MET:HB2	1.85	0.47
39:b:389:LEU:HB3	39:b:393:ARG:HH21	1.80	0.47
39:c:101:SER:HB3	43:k:247:HIS:HB3	1.95	0.47
39:c:278:HIS:HA	39:c:281:GLN:OE1	2.15	0.47
42:g:109:LEU:HD12	42:g:138:VAL:HG11	1.97	0.47
46:i2:1374:ILE:O	46:i2:1376:ARG:NH2	2.46	0.47
46:i3:1345:ARG:O	46:i3:1349:GLU:N	2.39	0.47
49:y:78:TYR:HE2	49:y:98:ALA:HA	1.79	0.47
2:1:526:MET:HE2	8:IE:279:GLU:HG3	1.96	0.47
3:4:404:ARG:HG2	3:4:408:LYS:HZ2	1.79	0.47
4:5:339:THR:OG1	4:5:342:GLU:HG2	2.14	0.47
7:A1:268:LEU:HD12	7:A1:268:LEU:HA	1.75	0.47
8:AA:51:THR:HG21	8:AA:243:ARG:HA	1.96	0.47
8:AA:137:ILE:HD13	8:AA:154:MET:HE3	1.96	0.47
9:AB:281:TYR:O	9:MB:86:ARG:NH1	2.47	0.47
8:AE:439:SER:OG	9:AF:390:ARG:NH2	2.47	0.47
9:AJ:198:GLU:OE2	9:AJ:200:TYR:OH	2.28	0.47
11:B0:7:LYS:HD2	11:B0:7:LYS:HA	1.66	0.47
11:B0:14:LEU:HD11	11:B1:132:PRO:HD3	1.96	0.47
11:B1:118:THR:HB	14:D1:410:MET:HE1	1.96	0.47
11:B4:90:ASP:OD2	28:Q4:110:THR:OG1	2.30	0.47
9:BB:44:LEU:HA	9:BB:47:ILE:HB	1.96	0.47
9:BF:141:GLY:O	9:BF:145:SER:OG	2.33	0.47
9:BP:87:PRO:HB3	31:Z:304:LEU:HD12	1.97	0.47
12:C4:336:MET:HB3	12:C4:480:TYR:OH	2.13	0.47
12:C6:76:CYS:HA	28:Q5:54:MET:HE2	1.96	0.47
8:CC:107:HIS:O	8:CC:112:LYS:NZ	2.47	0.47
9:CF:389:PHE:HZ	9:CF:405:GLU:HG2	1.80	0.47
8:CG:150:ALA:O	8:CG:154:MET:HG3	2.14	0.47
9:CL:67:ASP:OD1	9:CL:143:THR:HG21	2.14	0.47
9:CL:245:GLN:HE21	8:CM:224:TYR:HB2	1.80	0.47
8:CM:122:ILE:HD13	8:CM:157:LEU:HD11	1.96	0.47
8:CO:394:LYS:O	8:CO:398:MET:HG2	2.14	0.47
8:CO:399:TYR:O	8:CO:402:ARG:NH1	2.44	0.47
14:D4:29:VAL:HG23	12:S0:212:HIS:CE1	2.44	0.47
8:DC:238:ILE:HD12	8:DC:318:LEU:HD11	1.96	0.47
8:DK:83:TYR:HB3	8:DK:86:LEU:HB3	1.97	0.47
8:EA:107:HIS:HA	8:EA:152:LEU:HD23	1.95	0.47
9:EL:270:PHE:HB3	9:EL:273:LEU:HD21	1.97	0.47
8:GA:10:GLY:O	8:GA:14:VAL:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GJ:24:ILE:HG23	9:GJ:28:HIS:HD2	1.79	0.47
9:GN:178:THR:HG22	9:GN:180:VAL:H	1.79	0.47
8:HC:88:HIS:CE1	8:HC:90:GLU:OE1	2.67	0.47
8:HC:139:HIS:NE2	8:HC:168:GLU:OE1	2.48	0.47
9:HD:87:PRO:HA	9:HD:90:PHE:HE1	1.79	0.47
9:HF:166:THR:HG23	9:HF:199:THR:HG23	1.97	0.47
9:HH:64:VAL:HG21	9:HH:120:VAL:HG12	1.95	0.47
8:HM:133:GLN:O	8:HM:165:SER:OG	2.32	0.47
8:IA:308:ARG:HH22	36:Y0:71:SER:HB2	1.79	0.47
8:IC:385:ALA:HA	8:IC:388:TRP:CE3	2.49	0.47
9:ID:274:THR:O	9:ID:279:GLN:NE2	2.48	0.47
9:ID:296:ALA:H	36:Y1:240:ILE:CG1	2.27	0.47
8:IE:184:PRO:HG2	8:IE:394:LYS:HE3	1.95	0.47
9:IJ:86:ARG:HE	8:JK:284:GLU:CD	2.18	0.47
8:IK:338:LYS:HZ1	36:Y1:102:GLY:HA3	1.77	0.47
8:IK:386:GLU:OE1	8:IK:386:GLU:N	2.47	0.47
9:IL:195:ASN:O	9:IL:196:THR:OG1	2.30	0.47
9:IN:10:GLY:O	9:IN:14:ASN:ND2	2.48	0.47
9:IP:324:LYS:HE2	9:IP:324:LYS:HB3	1.77	0.47
19:J2:79:PRO:HD3	8:OC:282:TYR:CD1	2.50	0.47
9:JD:152:ILE:HG23	9:JD:164:MET:HE3	1.96	0.47
9:JD:221:THR:OG1	9:JD:222:TYR:N	2.48	0.47
8:JI:85:GLN:HG2	8:KG:282:TYR:CE2	2.50	0.47
9:JJ:178:THR:HG22	9:JJ:181:GLU:H	1.79	0.47
9:JJ:313:VAL:HG13	9:JJ:367:PHE:CE1	2.50	0.47
9:JP:252:LYS:HA	8:JQ:100:ALA:HB1	1.95	0.47
8:JQ:21:TRP:CZ2	8:JQ:65:ALA:HB2	2.50	0.47
20:K1:23:ARG:HH12	9:UB:216:LYS:C	2.22	0.47
8:KA:175:PRO:HB3	8:KA:390:ARG:HH21	1.79	0.47
9:KB:132:GLY:HA3	9:KB:163:ILE:HG22	1.95	0.47
9:KB:318:ARG:HG2	9:KB:358:PRO:HD3	1.97	0.47
8:KC:206:ASN:OD1	50:KC:501:GTP:N2	2.48	0.47
8:KE:10:GLY:O	8:KE:14:VAL:HG23	2.14	0.47
8:KE:175:PRO:HD2	8:KE:207:GLU:OE1	2.15	0.47
9:KH:26:ASP:OD2	9:KH:359:ARG:NH1	2.47	0.47
9:KH:207:LEU:O	9:KH:210:ILE:HG22	2.13	0.47
8:KI:196:GLU:CD	44:h3:127:TYR:HA	2.39	0.47
9:KL:326:VAL:HG22	9:KL:330:MET:CE	2.45	0.47
8:KM:317:MET:HE2	8:KM:377:MET:CE	2.44	0.47
8:KO:188:ILE:O	8:KO:191:THR:OG1	2.22	0.47
9:KP:271:ALA:HB1	9:KP:289:LEU:HD22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KP:362:LYS:CD	9:KP:363:MET:HB2	2.42	0.47
9:KP:375:GLN:HA	9:KP:378:PHE:CD2	2.49	0.47
17:L:318:THR:O	17:L:318:THR:OG1	2.24	0.47
21:L1:170:SER:OG	9:WH:279:GLN:OE1	2.32	0.47
8:LE:252:LEU:HD13	8:LE:255:PHE:CE1	2.49	0.47
8:LG:113:GLU:HB3	43:i:126:VAL:HG23	1.96	0.47
8:LK:156:ARG:HG2	45:n:70:MET:HE1	1.96	0.47
9:LN:64:VAL:HG21	9:LN:120:VAL:HG12	1.96	0.47
8:LO:14:VAL:HG13	8:LO:67:PHE:HD2	1.79	0.47
8:MM:108:TYR:HA	8:MM:112:LYS:HE3	1.96	0.47
8:MO:188:ILE:HD13	8:MO:425:LEU:HD13	1.96	0.47
15:N2:207:LEU:HD11	29:R:74:LYS:HE3	1.95	0.47
8:NA:68:VAL:HG12	8:NA:93:ILE:HB	1.95	0.47
8:NA:319:TYR:CE2	8:NA:328:VAL:HG22	2.49	0.47
8:NC:167:LEU:HB2	8:NC:202:PHE:HE1	1.79	0.47
9:ND:6:HIS:NE2	9:ND:8:GLN:OE1	2.42	0.47
9:NF:31:ASP:HB3	9:NF:32:PRO:CD	2.44	0.47
9:NF:138:SER:HA	9:NF:169:VAL:HB	1.96	0.47
8:NG:353:VAL:HG12	9:NH:177:ASP:OD1	2.14	0.47
8:NI:151:SER:HA	8:NI:193:THR:HG21	1.96	0.47
9:NL:359:ARG:HE	9:NL:359:ARG:HB3	1.50	0.47
8:NM:139:HIS:NE2	8:NM:168:GLU:OE1	2.39	0.47
24:O4:136:LYS:NZ	24:O4:140:PRO:O	2.47	0.47
8:OC:427:ALA:HA	8:OC:430:LYS:HD3	1.96	0.47
9:OD:226:ASN:O	9:OD:230:SER:N	2.41	0.47
8:OG:166:LYS:HG3	8:OG:198:SER:HA	1.96	0.47
8:OI:102:ASN:HB3	8:OI:105:ARG:HB2	1.95	0.47
9:OJ:46:ARG:HH12	8:OK:73:THR:HB	1.79	0.47
9:OP:279:GLN:CD	9:OP:282:ARG:HH22	2.22	0.47
23:P:19:ARG:HD3	23:P:22:ARG:HH12	1.79	0.47
27:P5:157:LEU:HA	17:P8:54:SER:OG	2.14	0.47
27:P6:22:MET:HE1	40:a3:7:PHE:HB2	1.97	0.47
27:P7:171:ARG:HA	27:P7:171:ARG:CZ	2.44	0.47
9:PB:217:LEU:HD21	9:PB:276:ARG:HH12	1.79	0.47
9:PL:72:THR:O	9:PL:75:SER:OG	2.28	0.47
9:PL:142:GLY:N	52:PL:502:GDP:O3B	2.35	0.47
9:PL:207:LEU:HB3	9:PL:225:LEU:HG	1.96	0.47
9:PN:183:TYR:CZ	9:PN:388:MET:HE2	2.48	0.47
9:QD:266:PHE:CE1	9:QD:370:ASN:HB2	2.50	0.47
8:QE:182:VAL:HG21	8:QE:404:PHE:CE2	2.49	0.47
9:QF:345:ILE:HA	8:QG:398:MET:HE1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QG:321:GLY:HA3	8:QG:373:ARG:HA	1.96	0.47
29:R:134:THR:HG22	29:R:135:ILE:H	1.79	0.47
11:R0:368:LYS:O	11:R0:372:ARG:HG3	2.14	0.47
8:RI:68:VAL:HG12	8:RI:93:ILE:HB	1.96	0.47
9:RJ:125:GLU:OE2	9:RJ:159:TYR:OH	2.31	0.47
8:RK:8:HIS:CE1	8:RK:17:GLY:HA2	2.50	0.47
8:RK:388:TRP:HE3	8:RK:425:LEU:HD21	1.78	0.47
8:RM:219:ILE:O	8:RM:222:PRO:HD3	2.14	0.47
9:RN:138:SER:HA	9:RN:169:VAL:HB	1.96	0.47
9:RN:309:ARG:H	9:RN:372:THR:HB	1.80	0.47
8:RO:108:TYR:HD2	8:RO:413:MET:HG2	1.79	0.47
9:RP:10:GLY:O	9:RP:14:ASN:ND2	2.47	0.47
12:S2:138:THR:HG22	12:S3:423:GLU:CD	2.39	0.47
12:S3:287:VAL:HG21	12:S4:401:ASP:HA	1.96	0.47
12:S9:458:ASP:O	12:S9:462:LYS:HG2	2.14	0.47
9:SH:252:LYS:HA	8:SI:100:ALA:HB1	1.96	0.47
9:SJ:152:ILE:HD12	9:SJ:195:ASN:O	2.14	0.47
8:SK:204:VAL:HG12	8:SK:302:MET:HG2	1.96	0.47
8:SK:320:ARG:O	8:SK:374:ALA:N	2.45	0.47
8:SM:138:PHE:HA	8:SM:169:PHE:O	2.14	0.47
25:T:151:ARG:HG2	33:X4:53:TYR:HE2	1.79	0.47
25:T:270:ASP:OD2	25:T:272:THR:HG23	2.15	0.47
14:T5:326:LEU:O	14:T5:330:THR:HG23	2.14	0.47
9:TB:128:ASP:OD1	9:TB:129:CYS:N	2.47	0.47
8:TG:188:ILE:HG12	8:TG:391:LEU:HD11	1.95	0.47
9:TH:173:PRO:HG3	9:TH:380:ARG:HH11	1.79	0.47
8:TK:166:LYS:N	8:TK:199:ASP:OD2	2.40	0.47
8:TK:183:GLU:HA	8:TK:186:ASN:HD22	1.80	0.47
9:TL:324:LYS:HE3	8:TM:222:PRO:HG2	1.97	0.47
8:TM:58:ALA:HB1	39:d:479:ARG:HH21	1.80	0.47
25:U:187:ASP:OD1	25:U:188:ARG:N	2.47	0.47
25:U:348:ASP:HB2	25:U:351:THR:HG23	1.96	0.47
30:U1:232:LEU:HA	30:U1:235:ARG:HG2	1.97	0.47
30:U2:428:GLN:HA	30:U2:431:LYS:HD2	1.95	0.47
30:U5:76:PRO:HB2	30:U5:86:LEU:HD21	1.96	0.47
30:U6:399:ARG:HE	30:U6:402:ARG:CZ	2.27	0.47
30:U7:272:SER:HA	30:U8:391:MET:SD	2.54	0.47
8:UC:58:ALA:HB3	8:UC:60:LYS:HE2	1.96	0.47
9:UD:293:MET:HE1	9:UD:367:PHE:HB2	1.97	0.47
8:UG:151:SER:HA	8:UG:193:THR:HG21	1.96	0.47
9:UJ:324:LYS:HE2	8:UK:210:TYR:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UJ:344:TRP:H	9:UJ:344:TRP:CD1	2.32	0.47
8:UO:171:ILE:HD13	8:UO:204:VAL:HG13	1.97	0.47
25:V:308:PHE:HD2	25:V:310:LYS:HD3	1.77	0.47
30:V1:249:SER:O	30:V1:252:ARG:NH2	2.45	0.47
8:VA:36:MET:HE3	8:VA:61:HIS:CE1	2.49	0.47
8:VA:93:ILE:HD13	8:VA:117:LEU:HG	1.96	0.47
9:VH:238:THR:HG21	9:VH:318:ARG:HG3	1.96	0.47
8:VI:216:ASN:O	8:VI:280:LYS:NZ	2.47	0.47
8:VI:328:VAL:HG21	8:VI:355:ILE:HD11	1.95	0.47
9:VJ:345:ILE:HA	8:VK:398:MET:HE1	1.97	0.47
8:VM:116:ASP:HA	8:VM:119:LEU:HG	1.97	0.47
30:W2:170:MET:HE1	30:W2:318:ARG:HB2	1.97	0.47
8:WA:324:VAL:O	8:WA:328:VAL:HG23	2.15	0.47
8:WC:79:ARG:HH21	8:WC:94:THR:HG23	1.78	0.47
9:WF:258:VAL:HB	8:WG:407:TRP:HZ2	1.80	0.47
8:WG:123:ARG:NH2	8:WG:160:ASP:OD1	2.46	0.47
9:WH:219:THR:HG21	42:f:156:LEU:HB3	1.97	0.47
8:WI:234:ILE:HD11	8:WI:272:TYR:HB2	1.96	0.47
9:WJ:309:ARG:HE	9:WJ:342:VAL:HA	1.78	0.47
31:X:667:LEU:HD21	31:X:674:LEU:HD11	1.95	0.47
34:X7:97:LEU:HA	34:X7:143:LEU:HD11	1.95	0.47
34:X7:120:ALA:O	34:X7:124:ARG:HG3	2.14	0.47
35:XH:24:ILE:HG23	35:XH:25:TRP:CD1	2.49	0.47
35:XH:93:VAL:HA	35:XH:151:THR:HA	1.96	0.47
39:c:250:ARG:O	39:c:254:ARG:HG3	2.14	0.47
42:e:317:VAL:HG22	42:e:324:GLU:HB3	1.95	0.47
42:f:213:MET:HA	42:f:220:PHE:HA	1.97	0.47
44:h1:68:ASN:OD1	44:h1:68:ASN:N	2.46	0.47
4:j1:43:TYR:HD2	4:j1:56:MET:SD	2.38	0.47
49:y:113:ASN:OD1	49:y:116:SER:OG	2.32	0.47
4:5:113:THR:HB	4:5:188:ILE:HG12	1.96	0.47
7:A0:341:ILE:HG12	7:A1:206:ARG:HH12	1.78	0.47
7:A3:371:ALA:O	7:A3:375:GLU:HG2	2.14	0.47
9:AD:228:LEU:HD11	9:AD:273:LEU:HD11	1.95	0.47
9:AD:336:LYS:NZ	37:YB:31:MET:HA	2.28	0.47
9:AF:324:LYS:HB3	8:AG:222:PRO:HD2	1.97	0.47
9:AL:280:GLN:HB2	9:ML:58:LYS:NZ	2.29	0.47
9:AL:364:SER:OG	9:AL:365:ALA:N	2.48	0.47
10:B:279:GLN:OE1	10:B:283:GLU:HG2	2.15	0.47
11:B4:324:ARG:HB3	11:B4:328:GLU:CG	2.43	0.47
11:B5:280:LYS:O	11:B5:284:LYS:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BB:6:HIS:CE1	9:BB:136:THR:HG23	2.46	0.47
9:BD:218:THR:OG1	31:W:121:ILE:O	2.25	0.47
9:BH:165:ASN:ND2	9:BH:198:GLU:OE2	2.47	0.47
8:BM:287:SER:N	8:BM:290:GLU:OE1	2.40	0.47
8:BM:294:ALA:O	8:BM:300:ASN:ND2	2.47	0.47
8:CQ:122:ILE:HD13	8:CQ:157:LEU:HD11	1.95	0.47
14:D1:162:ARG:HH22	14:D1:168:VAL:H	1.61	0.47
9:DB:184:ASN:OD1	9:DB:398:TYR:OH	2.29	0.47
9:DB:211:CYS:SG	9:DB:220:PRO:HB3	2.54	0.47
9:DL:314:ALA:HB3	9:DL:368:ILE:HB	1.95	0.47
9:DL:323:MET:HE1	8:DM:224:TYR:CE1	2.50	0.47
9:DN:327:ASP:HA	9:DN:330:MET:HG2	1.95	0.47
8:EA:310:GLY:HA3	8:EA:383:ALA:HB2	1.96	0.47
8:EA:337:THR:HG22	8:EA:337:THR:O	2.15	0.47
9:EB:2:ARG:NH2	8:EC:72:PRO:HD2	2.30	0.47
8:EG:320:ARG:O	8:EG:374:ALA:N	2.45	0.47
9:EJ:395:LEU:O	9:EJ:399:THR:HG23	2.14	0.47
9:EL:165:ASN:HB3	9:EL:200:TYR:CE2	2.47	0.47
15:F:6:TYR:CB	15:F:10:VAL:HG21	2.44	0.47
9:FB:299:MET:N	9:FB:299:MET:SD	2.88	0.47
9:FB:313:VAL:HG13	9:FB:367:PHE:HE1	1.79	0.47
9:FB:324:LYS:HA	9:FB:324:LYS:HD2	1.51	0.47
9:FF:74:ASP:HA	9:FF:77:ARG:HE	1.80	0.47
8:FK:123:ARG:HH21	36:Y2:103:PRO:HD3	1.79	0.47
8:FK:220:GLU:HG2	8:FK:221:ARG:HG3	1.97	0.47
8:FK:259:LEU:HD21	8:FK:268:PRO:HG3	1.96	0.47
9:FL:309:ARG:HG3	9:FL:426:GLN:HG3	1.96	0.47
9:FL:337:ASN:HB3	9:FL:340:TYR:HD2	1.79	0.47
9:GB:1:MET:HA	9:GB:1:MET:HE3	1.97	0.47
8:GC:372:GLN:OE1	8:GC:373:ARG:NH2	2.43	0.47
8:GG:30:ILE:HD13	8:GG:36:MET:HE1	1.97	0.47
8:GI:70:LEU:HB3	8:GI:98:ASP:HA	1.96	0.47
9:GJ:156:ARG:NH1	9:GJ:197:ASP:OD1	2.48	0.47
8:HA:402:ARG:HD2	8:HA:405:VAL:HG21	1.97	0.47
8:HC:74:VAL:O	8:HC:77:GLU:N	2.45	0.47
9:HF:342:VAL:HG21	9:HF:345:ILE:HD12	1.96	0.47
8:HK:217:LEU:HB3	8:HK:219:ILE:CD1	2.44	0.47
9:HL:183:TYR:HE1	9:HL:388:MET:HB3	1.80	0.47
9:HP:89:ASN:ND2	9:HP:123:GLU:OE2	2.48	0.47
17:I:262:GLY:HA3	31:W:97:PHE:CE1	2.49	0.47
8:IA:388:TRP:HA	8:IA:391:LEU:HD23	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IC:388:TRP:HB3	8:IC:425:LEU:HD21	1.97	0.47
8:IE:119:LEU:HA	8:IE:122:ILE:HG22	1.96	0.47
8:IG:4:CYS:HA	8:IG:134:GLY:O	2.15	0.47
8:II:241:SER:HA	8:II:356:ASN:HD21	1.79	0.47
8:II:338:LYS:HD3	36:Y1:138:GLY:H	1.79	0.47
9:IN:325:GLU:O	9:IN:329:GLN:HG3	2.15	0.47
8:IO:215:ARG:HA	36:Y1:45:LYS:HZ3	1.80	0.47
8:IO:326:LYS:HA	9:IP:208:TYR:CE1	2.49	0.47
17:J:13:GLU:O	17:J:15:HIS:ND1	2.44	0.47
19:J2:87:LEU:HB2	8:OC:285:GLN:HE22	1.79	0.47
19:J3:60:ASN:O	19:J3:64:VAL:HG23	2.14	0.47
8:JC:209:ILE:HD11	8:JC:302:MET:HG2	1.97	0.47
9:JD:270:PHE:CD1	9:JD:272:PRO:HD2	2.49	0.47
8:JE:338:LYS:HZ3	8:JE:341:ILE:N	2.13	0.47
8:JG:244:PHE:HB2	8:JG:356:ASN:HD21	1.79	0.47
8:JG:259:LEU:HD13	8:JG:316:CYS:HB2	1.96	0.47
8:JI:252:LEU:HD12	8:JI:252:LEU:H	1.79	0.47
8:JK:152:LEU:HA	8:JK:155:GLU:OE1	2.14	0.47
8:JK:172:TYR:N	8:JK:204:VAL:O	2.43	0.47
8:JK:184:PRO:HG3	8:JK:394:LYS:HD2	1.96	0.47
9:JL:68:LEU:HD13	9:JL:93:GLY:HA3	1.97	0.47
9:JL:259:PRO:HA	8:JM:404:PHE:CD2	2.50	0.47
9:JL:325:GLU:OE1	9:JL:325:GLU:N	2.41	0.47
8:JO:254:GLU:H	8:JO:254:GLU:CD	2.22	0.47
8:JO:255:PHE:HA	8:JO:258:ASN:OD1	2.14	0.47
9:JP:73:MET:SD	9:JP:73:MET:N	2.87	0.47
20:K1:23:ARG:HA	20:K1:23:ARG:HD3	1.70	0.47
13:K3:373:VAL:HG22	8:KM:82:THR:HG23	1.95	0.47
8:KA:103:TYR:N	8:KA:186:ASN:OD1	2.48	0.47
8:KA:338:LYS:HD3	8:KA:340:THR:N	2.30	0.47
8:KA:415:GLU:HA	8:KA:418:PHE:CE2	2.50	0.47
8:KC:49:PHE:HB2	8:KC:53:PHE:HD2	1.80	0.47
8:KE:286:LEU:O	8:KE:373:ARG:NH1	2.47	0.47
8:KG:311:LYS:HD3	8:KG:344:VAL:HG12	1.95	0.47
9:KJ:112:LEU:HB3	9:KJ:147:MET:HE1	1.97	0.47
8:KK:345:ASP:N	8:KK:345:ASP:OD1	2.45	0.47
9:LF:209:ASP:OD2	9:LF:213:ARG:NH2	2.43	0.47
9:LL:54:ALA:HA	9:ML:283:ALA:HB2	1.96	0.47
9:LN:384:GLN:HG2	44:h4:90:TRP:HZ2	1.79	0.47
9:MD:417:ASP:OD2	9:MD:418:LEU:N	2.47	0.47
8:MK:215:ARG:NH2	43:j:127:ASP:OD2	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ML:344:TRP:CD2	8:MM:401:LYS:HD2	2.49	0.47
9:NH:313:VAL:HB	9:NH:349:VAL:HA	1.97	0.47
8:NI:245:ASP:N	8:NI:245:ASP:OD1	2.46	0.47
9:NJ:52:ASN:N	9:NJ:60:VAL:O	2.46	0.47
8:NK:352:LYS:NZ	8:NK:353:VAL:O	2.48	0.47
8:NM:34:GLY:O	8:NM:60:LYS:HD3	2.14	0.47
9:NN:330:MET:HB2	9:NN:349:VAL:HG11	1.97	0.47
8:NO:290:GLU:H	8:NO:290:GLU:HG3	1.48	0.47
9:OF:221:THR:N	9:OF:224:ASP:OD1	2.47	0.47
8:OG:254:GLU:OE1	8:OG:254:GLU:N	2.46	0.47
9:OH:242:PHE:CG	9:OH:356:ILE:HD12	2.50	0.47
9:OH:289:LEU:HD21	9:OH:363:MET:HE3	1.96	0.47
9:OL:171:PRO:O	9:OL:380:ARG:NH1	2.41	0.47
8:OM:71:GLU:HG3	8:OM:98:ASP:HB3	1.97	0.47
9:PB:25:SER:HA	9:PB:30:ILE:HD13	1.97	0.47
8:PC:173:PRO:O	8:PC:390:ARG:NH2	2.47	0.47
9:PD:321:MET:HE3	9:PD:322:SER:H	1.80	0.47
9:PJ:156:ARG:HG3	9:PJ:195:ASN:HB3	1.95	0.47
8:PK:173:PRO:O	8:PK:390:ARG:NH2	2.47	0.47
8:PO:6:SER:HB3	8:PO:8:HIS:CD2	2.49	0.47
9:PP:407:GLU:HA	9:PP:410:GLU:HG2	1.97	0.47
28:Q3:126:GLN:OE1	28:Q3:133:ARG:HD2	2.14	0.47
28:Q4:51:PHE:CD1	28:Q4:58:ALA:HB1	2.48	0.47
9:QH:156:ARG:HG3	9:QH:195:ASN:HB2	1.95	0.47
9:QH:285:THR:C	9:QH:363:MET:HE1	2.40	0.47
9:QH:344:TRP:H	9:QH:344:TRP:CD1	2.31	0.47
9:QL:245:GLN:OE1	9:QL:323:MET:SD	2.72	0.47
11:R4:389:LYS:HA	12:S9:337:TRP:CH2	2.49	0.47
9:RH:50:TYR:CE2	9:RH:241:ARG:HD3	2.49	0.47
9:RJ:1:MET:HE3	9:RJ:2:ARG:H	1.80	0.47
8:RO:233:GLN:HE22	8:RO:360:PRO:HB3	1.79	0.47
9:RP:358:PRO:HG2	9:RP:361:LEU:HB3	1.95	0.47
12:S5:50:TRP:CD1	12:S5:51:ARG:N	2.83	0.47
12:S9:435:GLN:O	12:S9:439:ARG:NE	2.41	0.47
9:SD:258:VAL:HB	8:SE:407:TRP:HZ2	1.79	0.47
8:SE:107:HIS:HA	8:SE:152:LEU:HD23	1.96	0.47
14:T0:63:ARG:O	14:T0:66:GLN:HG3	2.14	0.47
8:TC:53:PHE:O	8:TC:64:ARG:NH1	2.47	0.47
8:TE:56:THR:HA	8:UE:285:GLN:HB2	1.95	0.47
9:TF:19:LYS:HD3	9:TF:226:ASN:HD22	1.79	0.47
9:TF:258:VAL:HB	8:TG:407:TRP:HZ2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TG:14:VAL:HG22	8:TG:67:PHE:HD2	1.80	0.47
8:TI:206:ASN:O	8:TI:210:TYR:HD1	1.97	0.47
8:TI:324:VAL:HG12	8:TI:326:LYS:H	1.80	0.47
9:TJ:26:ASP:O	9:TJ:359:ARG:NH1	2.47	0.47
9:TJ:139:LEU:HD12	9:TJ:170:VAL:HG22	1.97	0.47
9:TJ:268:PRO:O	9:TJ:300:MET:HE3	2.13	0.47
9:TJ:324:LYS:HD3	8:TK:210:TYR:CD1	2.49	0.47
30:U2:441:LEU:O	30:U2:445:VAL:HG23	2.14	0.47
30:U4:168:SER:O	30:U4:172:THR:HG23	2.13	0.47
30:U5:91:THR:OG1	30:U5:94:ASP:OD1	2.22	0.47
8:UE:60:LYS:NZ	8:VE:282:TYR:O	2.43	0.47
9:UF:299:MET:HG3	9:UF:301:ALA:H	1.79	0.47
9:UH:135:LEU:HD22	9:UH:152:ILE:HD11	1.95	0.47
8:UK:360:PRO:O	8:UK:370:LYS:NZ	2.37	0.47
9:UL:7:LEU:HD21	9:UL:151:LEU:HD13	1.96	0.47
9:UL:309:ARG:HG3	9:UL:426:GLN:HG3	1.97	0.47
9:UN:274:THR:HB	9:UN:278:SER:HB2	1.97	0.47
30:V1:101:LEU:HA	30:V1:104:ARG:HE	1.79	0.47
30:V3:170:MET:HE1	30:V3:317:LEU:HD23	1.96	0.47
30:V8:163:LEU:HD22	30:V8:247:GLN:HB3	1.97	0.47
8:VA:297:GLU:O	8:VA:301:GLN:NE2	2.35	0.47
8:VE:234:ILE:HD11	8:VE:272:TYR:HB2	1.96	0.47
9:VL:146:GLY:O	9:VL:149:THR:OG1	2.26	0.47
9:VN:330:MET:SD	9:VN:349:VAL:HB	2.55	0.47
8:VO:35:GLN:NE2	8:VO:59:GLY:O	2.48	0.47
31:W:350:LYS:NZ	40:a1:56:LEU:HD13	2.27	0.47
30:W0:228:GLN:O	30:W0:231:LYS:HG3	2.14	0.47
30:W2:213:LYS:HE3	30:W2:217:ARG:HD3	1.96	0.47
9:WB:104:GLY:HA2	9:WB:147:MET:HE2	1.95	0.47
8:WC:320:ARG:HD3	8:WC:360:PRO:HG3	1.96	0.47
8:WK:275:VAL:HA	8:WK:368:LEU:HD21	1.97	0.47
8:WO:164:LYS:HG2	37:YH:71:HIS:CE1	2.50	0.47
9:WP:146:GLY:O	9:WP:149:THR:OG1	2.30	0.47
32:X1:197:SER:OG	32:X1:202:ARG:N	2.48	0.47
33:X4:353:ILE:HB	33:X4:355:LYS:HE3	1.96	0.47
34:X8:50:PRO:HA	34:X8:53:VAL:HB	1.96	0.47
35:XH:53:ASN:HB3	35:XH:56:THR:HG23	1.97	0.47
37:YB:165:MET:H	37:YB:165:MET:HE2	1.79	0.47
42:e:561:VAL:HG12	42:e:571:VAL:HG13	1.97	0.47
44:h3:118:MET:HE3	44:h3:119:PRO:HG2	1.96	0.47
46:i4:1504:LYS:HA	46:i4:1504:LYS:HD2	1.66	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:j1:171:PHE:O	4:j1:174:SER:OG	2.32	0.47
45:l:6:SER:HA	45:l:11:GLU:OE2	2.15	0.47
3:3:152:LYS:HA	3:3:152:LYS:HD2	1.64	0.47
4:5:40:LEU:O	1:7:103:LYS:NZ	2.34	0.47
7:A4:391:MET:N	7:A4:391:MET:SD	2.88	0.47
9:AB:54:ALA:HA	9:BB:283:ALA:HB2	1.97	0.47
9:AB:372:THR:HA	9:AB:422:TYR:CE2	2.49	0.47
8:AC:263:PRO:HD2	35:XB:116:PRO:HG2	1.96	0.47
8:AE:186:ASN:O	8:AE:190:THR:OG1	2.23	0.47
9:AF:261:PRO:HG3	8:AG:406:HIS:CD2	2.49	0.47
9:AH:280:GLN:H	9:AH:280:GLN:HG2	1.47	0.47
9:AH:280:GLN:HG3	9:AH:281:TYR:CE1	2.50	0.47
9:AJ:213:ARG:HH21	9:AJ:297:LYS:HD3	1.80	0.47
8:AM:249:ASN:OD1	8:AM:249:ASN:N	2.38	0.47
11:B2:204:ASN:ND2	11:B2:207:ARG:HD3	2.29	0.47
11:B4:218:TRP:CD1	11:B5:327:VAL:HG12	2.50	0.47
9:BD:170:VAL:HG11	9:BD:377:LEU:HD21	1.96	0.47
8:BE:203:MET:HB2	8:BE:203:MET:HE2	1.67	0.47
9:BJ:19:LYS:HG3	9:BJ:226:ASN:HB2	1.96	0.47
12:C0:298:GLU:HB3	12:C0:302:LYS:HZ1	1.79	0.47
8:CE:33:ASP:OD1	8:CE:34:GLY:N	2.48	0.47
9:CF:170:VAL:HG11	9:CF:377:LEU:HD21	1.95	0.47
9:CH:407:GLU:HA	9:CH:410:GLU:HG2	1.96	0.47
9:CL:330:MET:HB3	9:CL:349:VAL:HG21	1.97	0.47
8:CO:11:GLN:HA	8:CO:74:VAL:HG11	1.97	0.47
9:CP:79:GLY:HA2	31:Z:280:ARG:NE	2.30	0.47
9:DB:345:ILE:HA	8:DC:398:MET:CE	2.45	0.47
8:DC:209:ILE:HB	8:DC:227:LEU:HD23	1.97	0.47
8:DE:163:LYS:HA	8:DE:163:LYS:HE3	1.96	0.47
9:DH:173:PRO:HG2	9:DH:174:LYS:HD3	1.96	0.47
8:DK:277:SER:OG	8:DK:278:ALA:N	2.46	0.47
9:DL:184:ASN:OD1	9:DL:398:TYR:OH	2.32	0.47
8:DO:14:VAL:HG12	8:DO:67:PHE:HD2	1.79	0.47
9:DP:317:PHE:HB3	9:DP:321:MET:HE1	1.97	0.47
8:DQ:208:ALA:HB2	8:DQ:304:LYS:HD3	1.97	0.47
8:EC:417:GLU:N	8:EC:417:GLU:OE1	2.47	0.47
8:EI:206:ASN:HD21	50:EI:501:GTP:HN22	1.61	0.47
9:EL:337:ASN:HB3	9:EL:340:TYR:HD2	1.79	0.47
9:EL:427:ASP:OD1	9:EL:427:ASP:N	2.35	0.47
8:FA:108:TYR:HA	8:FA:112:LYS:HE3	1.97	0.47
8:FC:207:GLU:HA	8:FC:210:TYR:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FD:372:THR:HA	9:FD:422:TYR:CE1	2.49	0.47
9:FF:12:CYS:O	9:FF:16:ILE:HG12	2.14	0.47
9:FH:282:ARG:NH2	9:FH:292:GLN:OE1	2.45	0.47
8:FI:25:CYS:HB2	8:FI:30:ILE:HB	1.96	0.47
8:FI:123:ARG:HB2	36:Y2:136:THR:HG21	1.96	0.47
9:FJ:114:ASP:N	9:FJ:114:ASP:OD1	2.47	0.47
9:FJ:309:ARG:HG3	9:FJ:426:GLN:HG3	1.95	0.47
9:FL:321:MET:HE1	9:FL:323:MET:HA	1.96	0.47
8:FM:270:ALA:HA	8:FM:378:LEU:HD23	1.96	0.47
8:GE:12:ALA:O	8:GE:16:ILE:HD12	2.14	0.47
8:GE:191:THR:HA	8:GE:194:THR:HG22	1.97	0.47
8:GE:345:ASP:OD1	8:GE:345:ASP:N	2.48	0.47
9:GF:255:VAL:HA	8:GG:407:TRP:CZ2	2.49	0.47
9:GH:184:ASN:OD1	9:GH:398:TYR:OH	2.32	0.47
8:GI:262:TYR:OH	9:GJ:391:ARG:O	2.25	0.47
9:GJ:21:TRP:HZ3	9:GJ:51:TYR:CZ	2.32	0.47
9:GL:309:ARG:NH2	9:GL:339:SER:O	2.48	0.47
9:GN:17:GLY:HA2	9:GN:20:PHE:HB3	1.95	0.47
9:GN:404:ASP:N	9:GN:404:ASP:OD1	2.44	0.47
8:HC:271:THR:HA	8:HC:302:MET:HE3	1.96	0.47
8:HC:414:GLU:CD	8:HC:416:GLY:H	2.23	0.47
8:HE:30:ILE:HD11	8:HE:36:MET:HE2	1.96	0.47
8:HE:250:VAL:HG13	8:HE:254:GLU:HB2	1.97	0.47
8:HE:265:ILE:HD12	8:HE:432:TYR:CE1	2.49	0.47
9:HH:144:GLY:N	52:HH:502:GDP:O1B	2.37	0.47
9:HH:202:ILE:HD11	9:HH:300:MET:HG3	1.96	0.47
9:HL:97:ALA:HA	9:HL:103:LYS:HE2	1.96	0.47
9:HL:163:ILE:HD12	9:HL:250:LEU:HB2	1.96	0.47
8:HM:257:THR:HA	9:HN:397:TRP:CZ3	2.50	0.47
9:HN:265:PHE:HB2	9:HN:374:ILE:HD12	1.96	0.47
18:I1:123:PRO:HB2	9:JN:217:LEU:HD11	1.95	0.47
8:II:281:ALA:HA	8:II:284:GLU:HB2	1.97	0.47
9:IJ:147:MET:HE3	9:IJ:150:LEU:HB3	1.97	0.47
8:IK:308:ARG:HH22	36:Y1:105:ASP:HA	1.79	0.47
8:IO:188:ILE:HD13	8:IO:425:LEU:HD23	1.97	0.47
17:J:299:THR:O	17:J:303:SER:OG	2.28	0.47
19:J3:174:ARG:HH22	19:J3:177:THR:HG1	1.61	0.47
19:J4:75:SER:OG	8:NK:84:ARG:NH1	2.43	0.47
19:J4:100:ILE:HD11	9:OL:273:LEU:HD23	1.97	0.47
19:J4:168:THR:HG23	8:OM:372:GLN:HE22	1.79	0.47
9:JB:233:MET:H	9:JB:233:MET:CE	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JD:284:LEU:HA	9:JD:288:GLU:OE2	2.14	0.47
9:JD:324:LYS:HB2	8:JE:221:ARG:CZ	2.45	0.47
8:JE:53:PHE:HB3	8:JE:61:HIS:HB3	1.96	0.47
9:JF:379:LYS:NZ	9:JF:419:VAL:HB	2.29	0.47
9:JH:263:LEU:HD13	9:JH:370:ASN:HD21	1.79	0.47
8:JI:246:GLY:HA2	8:JI:357:TYR:HE2	1.79	0.47
9:JL:319:GLY:CA	9:JL:357:PRO:HD3	2.39	0.47
9:JL:341:PHE:HB3	9:JL:348:ASN:HD21	1.78	0.47
8:JQ:215:ARG:HB2	8:JQ:215:ARG:NH1	2.30	0.47
8:JQ:250:VAL:HG13	8:JQ:254:GLU:HB2	1.96	0.47
13:K3:262:ARG:NH2	13:K3:280:ASP:OD1	2.47	0.47
8:KA:241:SER:HB2	8:KA:250:VAL:H	1.80	0.47
9:KB:7:LEU:HD12	9:KB:8:GLN:N	2.28	0.47
8:KC:311:LYS:H	8:KC:382:THR:HG22	1.80	0.47
9:KD:51:TYR:HB3	9:KD:59:TYR:HB3	1.96	0.47
8:KG:259:LEU:HD11	8:KG:378:LEU:O	2.14	0.47
8:KG:260:VAL:HB	9:KH:397:TRP:HZ2	1.80	0.47
9:KJ:139:LEU:HA	9:KJ:145:SER:HB3	1.96	0.47
9:KJ:139:LEU:HD12	9:KJ:170:VAL:HG23	1.96	0.47
9:KJ:428:ALA:HB1	8:KK:401:LYS:HE3	1.97	0.47
8:KM:264:ARG:HE	44:h4:128:GLN:CD	2.22	0.47
9:KP:146:GLY:O	9:KP:149:THR:OG1	2.32	0.47
9:KP:204:ASN:ND2	52:KP:502:GDP:N3	2.62	0.47
8:LC:5:ILE:HD13	8:LC:125:LEU:HB3	1.97	0.47
8:LC:320:ARG:HD3	8:LC:360:PRO:HG3	1.96	0.47
8:LE:437:VAL:HG12	43:i:91:ARG:NH2	2.21	0.47
9:LJ:257:MET:HE3	9:LJ:257:MET:O	2.14	0.47
9:LL:120:VAL:O	9:LL:124:ALA:N	2.42	0.47
9:LL:166:THR:HG23	9:LL:199:THR:HG23	1.95	0.47
9:LL:330:MET:SD	9:LL:349:VAL:HG11	2.55	0.47
9:LN:130:LEU:O	9:LN:162:ARG:NH1	2.37	0.47
9:MD:252:LYS:HA	8:ME:100:ALA:HB1	1.97	0.47
8:ME:183:GLU:HG2	8:ME:184:PRO:HD3	1.97	0.47
9:MF:324:LYS:HB2	8:MG:210:TYR:CE1	2.49	0.47
8:MG:335:ILE:HD12	8:MG:335:ILE:HA	1.81	0.47
8:MM:413:MET:HE2	8:MM:413:MET:HB3	1.75	0.47
9:MP:7:LEU:HD13	9:MP:151:LEU:HD21	1.97	0.47
9:MP:35:THR:HG23	9:MP:58:LYS:HE3	1.95	0.47
17:N:26:GLN:HA	17:N:29:TYR:HD2	1.79	0.47
8:NC:258:ASN:OD1	9:ND:180:VAL:HG12	2.15	0.47
8:NE:215:ARG:NH2	8:NE:299:ALA:O	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NI:318:LEU:HB2	8:NI:376:CYS:HB3	1.95	0.47
8:NM:54:SER:H	8:NM:61:HIS:C	2.22	0.47
9:NP:101:TRP:HB3	9:NP:398:TYR:HE2	1.79	0.47
9:NP:363:MET:HE3	9:NP:364:SER:H	1.78	0.47
24:O2:113:ALA:HB3	24:O2:142:ILE:HD13	1.95	0.47
25:O5:283:ASN:OD1	25:O5:285:ARG:HB2	2.14	0.47
8:OA:21:TRP:HA	8:OA:24:TYR:CD2	2.49	0.47
8:OA:269:LEU:HD22	8:OA:303:VAL:HG21	1.94	0.47
8:OA:297:GLU:O	8:OA:301:GLN:NE2	2.36	0.47
8:OG:88:HIS:CD2	8:PG:283:HIS:HB3	2.50	0.47
8:OG:169:PHE:HA	8:OG:202:PHE:HB2	1.95	0.47
8:OI:2:ARG:HH21	8:OI:252:LEU:HD12	1.78	0.47
8:OI:311:LYS:H	8:OI:382:THR:HG22	1.79	0.47
8:OM:297:GLU:O	8:OM:301:GLN:NE2	2.39	0.47
8:OO:311:LYS:H	8:OO:382:THR:HG22	1.80	0.47
8:OO:419:SER:O	8:OO:423:GLU:HG2	2.15	0.47
27:P3:178:PHE:HA	14:T5:337:ALA:HB2	1.97	0.47
8:PE:7:ILE:HD11	8:PE:135:PHE:CD1	2.50	0.47
8:PE:219:ILE:HB	8:PE:222:PRO:HG3	1.96	0.47
8:PE:311:LYS:H	8:PE:382:THR:HG22	1.79	0.47
9:PJ:68:LEU:HD12	9:PJ:97:ALA:HB2	1.96	0.47
9:PJ:188:SER:O	9:PJ:192:LEU:HD22	2.15	0.47
8:PK:188:ILE:HD13	8:PK:425:LEU:HD12	1.94	0.47
9:PL:54:ALA:HA	9:QL:283:ALA:HB2	1.97	0.47
8:PM:264:ARG:HH12	8:PM:428:LEU:HA	1.80	0.47
8:PM:391:LEU:HD12	8:PM:394:LYS:HD3	1.97	0.47
9:PN:212:PHE:CD2	9:PN:213:ARG:HG3	2.50	0.47
8:QE:70:LEU:HD13	8:QE:95:GLY:HA3	1.96	0.47
9:QF:138:SER:HA	9:QF:169:VAL:HB	1.96	0.47
9:QH:323:MET:O	9:QH:327:ASP:N	2.41	0.47
8:QI:346:TRP:CD1	9:QJ:391:ARG:HG3	2.50	0.47
8:QM:167:LEU:HD21	8:QM:256:GLN:HE21	1.79	0.47
8:QM:324:VAL:HG23	8:QM:327:ASP:H	1.79	0.47
9:QN:31:ASP:OD1	9:QN:35:THR:N	2.46	0.47
9:QN:311:LEU:HD13	9:QN:342:VAL:HG11	1.95	0.47
9:QP:167:PHE:CD1	9:QP:233:MET:HE1	2.49	0.47
11:R3:286:THR:O	11:R3:290:ILE:HG13	2.15	0.47
11:R3:337:GLY:HA3	11:R4:63:ARG:HH12	1.79	0.47
8:RC:133:GLN:HB3	8:RC:252:LEU:HD22	1.97	0.47
9:RD:427:ASP:OD1	9:RD:427:ASP:N	2.37	0.47
8:RE:132:LEU:O	8:RE:164:LYS:NZ	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RF:294:PHE:CZ	9:RF:333:VAL:HG11	2.50	0.47
8:RI:297:GLU:O	8:RI:301:GLN:NE2	2.38	0.47
8:RK:206:ASN:OD1	50:RK:501:GTP:N2	2.48	0.47
8:RK:316:CYS:HB3	8:RK:378:LEU:HB2	1.96	0.47
8:RM:36:MET:HA	8:RM:36:MET:HE3	1.97	0.47
12:S3:106:SER:O	12:S3:109:GLU:HG2	2.15	0.47
12:S3:300:TRP:NE1	12:S4:410:GLU:OE2	2.46	0.47
12:S9:371:GLU:O	12:S9:375:ILE:HG12	2.15	0.47
9:SB:266:PHE:CZ	9:SB:370:ASN:HB2	2.49	0.47
9:SD:309:ARG:HG3	9:SD:426:GLN:HG3	1.97	0.47
9:SH:210:ILE:O	9:SH:214:THR:N	2.45	0.47
14:T2:374:GLN:O	14:T2:378:LEU:HG	2.15	0.47
14:T4:350:LEU:HB2	14:T4:384:LEU:HD22	1.97	0.47
8:TC:48:SER:OG	8:TC:49:PHE:N	2.48	0.47
8:TE:313:MET:N	8:TE:313:MET:SD	2.87	0.47
8:TI:102:ASN:HB3	8:TI:105:ARG:HB2	1.96	0.47
9:TN:83:GLN:O	9:UN:281:TYR:OH	2.23	0.47
9:TN:210:ILE:HG23	9:TN:214:THR:OG1	2.14	0.47
25:U:87:PRO:HB2	25:U:89:HIS:ND1	2.30	0.47
25:U:510:GLU:HA	25:U:513:LEU:HD12	1.97	0.47
30:U1:119:ASP:HA	30:U1:122:ARG:NE	2.29	0.47
30:U4:125:GLN:OE1	30:U4:125:GLN:N	2.47	0.47
30:U8:110:ARG:HH22	30:U9:363:LYS:HG2	1.79	0.47
30:U8:141:ASN:HD21	30:U9:411:VAL:HG12	1.79	0.47
30:U8:380:ARG:HE	30:W0:305:ARG:CD	2.19	0.47
8:UE:154:MET:HE2	8:UE:197:HIS:HB3	1.97	0.47
8:UE:154:MET:HE3	8:UE:154:MET:O	2.14	0.47
9:UH:372:THR:HA	9:UH:422:TYR:CE1	2.48	0.47
8:UI:114:ILE:O	8:UI:118:VAL:HG22	2.15	0.47
9:UJ:378:PHE:HD1	9:UJ:415:MET:HE1	1.80	0.47
9:UN:372:THR:HA	9:UN:422:TYR:CE1	2.49	0.47
8:UO:56:THR:HG22	8:UO:60:LYS:H	1.78	0.47
30:V0:440:THR:HG22	30:V1:112:TRP:CH2	2.49	0.47
30:V6:132:HIS:O	30:V6:135:GLN:HG3	2.15	0.47
8:VA:319:TYR:CE2	8:VA:328:VAL:HG13	2.49	0.47
9:VB:26:ASP:O	9:VB:359:ARG:NH1	2.47	0.47
9:VH:213:ARG:HE	9:VH:297:LYS:CG	2.26	0.47
9:VJ:325:GLU:O	9:VJ:329:GLN:HG3	2.14	0.47
8:VK:326:LYS:O	8:VK:330:ALA:N	2.42	0.47
8:VM:130:THR:OG1	8:VM:131:GLY:N	2.47	0.47
8:VO:321:GLY:HA2	8:VO:359:PRO:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:W:355:ASP:OD2	31:W:356:CYS:N	2.44	0.47
30:W0:349:GLU:O	30:W0:353:VAL:HG23	2.15	0.47
30:W4:125:GLN:O	30:W4:129:GLN:NE2	2.48	0.47
8:WA:209:ILE:HD13	8:WA:227:LEU:HG	1.96	0.47
8:WE:68:VAL:HG12	8:WE:93:ILE:HB	1.97	0.47
8:WE:258:ASN:ND2	9:WF:178:THR:HA	2.29	0.47
8:WG:114:ILE:HB	8:WG:117:LEU:HD23	1.95	0.47
8:WI:127:ASP:HA	37:YE:69:LEU:HD23	1.96	0.47
8:WI:133:GLN:NE2	8:WI:252:LEU:HB2	2.29	0.47
8:WM:167:LEU:HD23	8:WM:202:PHE:HE2	1.79	0.47
9:WN:323:MET:HA	9:WN:326:VAL:HB	1.97	0.47
35:XA:53:ASN:HB3	35:XA:56:THR:HG22	1.96	0.47
35:XC:75:PHE:HB2	35:XC:168:SER:HB3	1.97	0.47
35:XG:156:ILE:HG21	35:XG:162:ILE:HD11	1.96	0.47
37:YH:161:VAL:HG12	37:YH:219:TYR:HE2	1.78	0.47
39:a:194:MET:CG	39:b:521:LYS:HE2	2.44	0.47
39:b:319:ASN:OD1	39:b:323:GLN:NE2	2.43	0.47
41:b4:139:ARG:HE	41:b4:263:SER:H	1.63	0.47
41:b4:189:GLU:HG2	41:b4:453:GLY:HA3	1.97	0.47
41:b4:209:MET:HE3	41:b4:325:GLN:NE2	2.30	0.47
41:b4:479:ARG:HG3	41:b4:480:LEU:HD22	1.96	0.47
39:c:487:GLN:O	39:c:491:GLN:HG2	2.14	0.47
42:f:111:LYS:N	42:f:134:ASP:OD2	2.41	0.47
42:g:437:GLY:HA2	42:g:463:SER:HA	1.97	0.47
2:2:487:TRP:CZ2	9:IP:284:LEU:HD21	2.50	0.47
3:3:23:ILE:HD11	36:Y5:249:LEU:HD21	1.96	0.47
3:3:94:THR:O	3:3:98:ARG:HG3	2.14	0.47
3:3:330:GLN:O	3:3:334:GLU:HG2	2.15	0.47
4:5:293:PHE:CE1	4:5:390:PHE:HE2	2.33	0.47
4:6:58:ASP:N	4:6:63:ARG:O	2.37	0.47
4:6:63:ARG:NH2	9:IL:74:ASP:HA	2.27	0.47
7:A1:94:TYR:HE2	7:A1:239:LYS:HG3	1.80	0.47
7:A1:352:LYS:HB3	7:A1:352:LYS:HE2	1.80	0.47
9:AB:41:ASP:N	9:AB:41:ASP:OD1	2.48	0.47
8:AC:88:HIS:CE1	8:BC:280:LYS:HE3	2.46	0.47
8:AE:346:TRP:HD1	9:AF:391:ARG:CZ	2.28	0.47
9:AF:344:TRP:H	9:AF:344:TRP:HD1	1.61	0.47
8:AG:259:LEU:HD21	8:AG:268:PRO:HG2	1.96	0.47
8:AI:98:ASP:OD1	8:AI:99:ALA:N	2.47	0.47
8:AI:164:LYS:HA	8:AI:164:LYS:HD3	1.54	0.47
8:AI:415:GLU:OE1	35:XE:86:TYR:OH	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:149:THR:HB	9:AJ:191:GLN:HG2	1.96	0.47
9:AJ:252:LYS:HG2	8:AK:100:ALA:HA	1.97	0.47
8:AK:6:SER:C	8:AK:7:ILE:HD13	2.39	0.47
9:AN:54:ALA:HA	9:BN:283:ALA:HB2	1.97	0.47
9:AN:213:ARG:HE	9:AN:297:LYS:HD2	1.79	0.47
9:AP:285:THR:HB	9:AP:287:PRO:HD2	1.97	0.47
11:B3:170:GLN:HB3	14:D3:143:ASP:OD1	2.14	0.47
11:B3:303:ASP:O	11:B3:307:LYS:HG2	2.14	0.47
9:BB:276:ARG:HH21	25:T:141:SER:HB2	1.79	0.47
9:BD:150:LEU:HG	9:BD:154:LYS:HE2	1.96	0.47
8:BG:111:GLY:O	8:BG:115:VAL:HG23	2.13	0.47
9:BJ:321:MET:HA	17:L:232:MET:HE1	1.96	0.47
8:BM:186:ASN:OD1	8:BM:408:TYR:OH	2.33	0.47
8:BM:345:ASP:OD1	8:BM:345:ASP:N	2.47	0.47
9:BN:129:CYS:SG	8:BO:96:LYS:HD3	2.53	0.47
9:BN:173:PRO:HG2	9:BN:174:LYS:HD3	1.97	0.47
9:BP:309:ARG:NH2	9:BP:339:SER:O	2.48	0.47
10:C:389:ILE:O	10:C:392:MET:HE3	2.15	0.47
8:CC:46:ASP:HA	8:CC:49:PHE:CE2	2.49	0.47
8:CC:329:ASN:HD21	9:CD:175:VAL:HG21	1.79	0.47
9:CD:284:LEU:CD2	9:CD:363:MET:HE2	2.45	0.47
8:CE:251:ASP:OD1	8:CE:254:GLU:N	2.42	0.47
8:CI:21:TRP:CZ3	8:CI:63:PRO:HB3	2.50	0.47
9:CJ:406:MET:SD	9:CJ:406:MET:N	2.84	0.47
8:CK:41:THR:HG21	31:Y:231:ARG:HD3	1.97	0.47
9:CL:232:THR:HG21	9:CL:268:PRO:HB2	1.96	0.47
9:CN:330:MET:N	9:CN:330:MET:SD	2.88	0.47
8:CO:189:LEU:O	8:CO:192:HIS:ND1	2.41	0.47
9:CP:209:ASP:O	9:CP:297:LYS:NZ	2.48	0.47
14:D0:97:LEU:HG	14:D0:101:ARG:NH1	2.29	0.47
14:D1:320:TYR:HA	14:D1:323:ARG:HH11	1.79	0.47
14:D1:415:ASP:N	14:D1:415:ASP:OD1	2.47	0.47
14:D3:177:LEU:O	14:D3:181:GLU:HG3	2.15	0.47
14:D3:181:GLU:HG2	28:Q3:36:GLY:HA3	1.96	0.47
14:D3:201:ILE:HG22	14:D3:205:ARG:NH1	2.29	0.47
9:DB:53:GLU:HG3	17:H:29:TYR:OH	2.14	0.47
9:DB:117:LEU:HD11	9:DB:154:LYS:NZ	2.29	0.47
9:DD:83:GLN:O	9:EB:281:TYR:OH	2.27	0.47
9:DF:86:ARG:HD3	9:DF:88:ASP:HB2	1.96	0.47
8:DG:223:THR:HG23	8:DG:225:THR:H	1.80	0.47
9:DL:54:ALA:HB3	9:DL:58:LYS:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DQ:377:MET:HE3	8:DQ:378:LEU:N	2.29	0.47
15:E:24:GLU:HG3	9:JJ:276:ARG:HE	1.79	0.47
9:EB:45:GLU:OE2	17:Z2:221:TYR:OH	2.23	0.47
9:EB:256:ASN:HD21	8:EC:181:VAL:H	1.61	0.47
9:EF:323:MET:HA	9:EF:326:VAL:HG12	1.96	0.47
8:EI:191:THR:HA	8:EI:194:THR:HG22	1.97	0.47
9:EJ:81:PHE:HB3	9:EJ:84:ILE:HD11	1.97	0.47
9:EJ:238:THR:HA	9:EJ:241:ARG:HH21	1.80	0.47
9:EL:111:GLU:OE1	9:EL:111:GLU:N	2.45	0.47
9:EL:251:ARG:NH2	8:EM:97:GLU:OE2	2.47	0.47
9:EL:404:ASP:OD1	9:EL:404:ASP:N	2.33	0.47
8:EM:2:ARG:HH22	9:EN:71:GLY:HA3	1.80	0.47
9:EN:170:VAL:HG11	9:EN:377:LEU:HD21	1.96	0.47
15:F:197:GLN:OE1	15:F:225:ARG:NH1	2.47	0.47
8:FA:123:ARG:NH2	36:Y3:66:PRO:HB2	2.30	0.47
8:FA:167:LEU:HD23	8:FA:202:PHE:HE2	1.79	0.47
8:FC:3:GLU:HA	8:FC:51:THR:HA	1.97	0.47
8:FC:151:SER:HA	8:FC:193:THR:HG21	1.95	0.47
8:FE:169:PHE:HA	8:FE:202:PHE:HB2	1.96	0.47
9:FF:101:TRP:HZ3	9:FF:403:MET:HE1	1.79	0.47
9:FF:427:ASP:OD1	9:FF:427:ASP:N	2.35	0.47
8:FG:151:SER:HA	8:FG:193:THR:HG21	1.97	0.47
9:FH:180:VAL:HG22	9:FH:183:TYR:HB2	1.97	0.47
9:FH:337:ASN:HB3	9:FH:340:TYR:HD2	1.80	0.47
8:FI:69:ASP:OD1	8:FI:70:LEU:N	2.48	0.47
9:FJ:8:GLN:OE1	9:FJ:17:GLY:HA3	2.14	0.47
8:FK:171:ILE:HD12	8:FK:206:ASN:HD21	1.80	0.47
8:FK:188:ILE:O	8:FK:191:THR:OG1	2.25	0.47
9:FL:86:ARG:HG2	9:FL:88:ASP:H	1.80	0.47
8:GA:204:VAL:HG23	8:GA:302:MET:HB2	1.95	0.47
8:GC:338:LYS:HB3	8:GC:341:ILE:HG12	1.96	0.47
9:GF:323:MET:HE1	8:GG:224:TYR:CD2	2.50	0.47
8:GK:209:ILE:HD12	8:GK:227:LEU:HD23	1.97	0.47
9:GL:151:LEU:O	9:GL:155:ILE:HG12	2.14	0.47
9:GL:318:ARG:NH1	9:GL:358:PRO:HA	2.30	0.47
8:GM:332:ILE:HG12	8:GM:351:PHE:HD2	1.79	0.47
9:GN:128:ASP:OD1	9:GN:128:ASP:N	2.44	0.47
8:GO:3:GLU:HA	8:GO:51:THR:HA	1.95	0.47
8:GO:317:MET:HE1	8:GO:377:MET:HE2	1.97	0.47
8:HA:51:THR:HG23	8:HA:52:PHE:HD2	1.80	0.47
8:HA:137:ILE:HG21	8:HA:154:MET:HE1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:4:CYS:HB2	8:HC:52:PHE:HE1	1.78	0.47
8:HC:324:VAL:O	8:HC:328:VAL:HG23	2.14	0.47
9:HD:323:MET:N	9:HD:323:MET:SD	2.88	0.47
8:HE:99:ALA:C	8:HE:105:ARG:HH21	2.23	0.47
8:HE:111:GLY:O	8:HE:115:VAL:HG23	2.14	0.47
8:HE:239:THR:OG1	8:HE:243:ARG:NH2	2.48	0.47
9:HF:343:GLU:N	9:HF:343:GLU:OE1	2.46	0.47
9:HF:372:THR:HA	9:HF:422:TYR:CE1	2.46	0.47
8:HG:204:VAL:HA	8:HG:303:VAL:HG22	1.96	0.47
9:HH:204:ASN:O	9:HH:208:TYR:N	2.46	0.47
8:HI:235:VAL:HA	8:HI:238:ILE:HG22	1.97	0.47
9:HJ:146:GLY:O	9:HJ:149:THR:OG1	2.31	0.47
9:HJ:406:MET:O	9:HJ:409:THR:OG1	2.30	0.47
9:HN:198:GLU:HA	9:HN:264:HIS:HB2	1.97	0.47
8:HO:168:GLU:O	8:HO:201:ALA:HA	2.15	0.47
9:HP:277:GLY:HA2	9:HP:280:GLN:HE22	1.80	0.47
9:IB:122:LYS:HD3	9:IB:122:LYS:HA	1.74	0.47
8:IC:88:HIS:CD2	9:JD:281:TYR:CD1	3.02	0.47
8:IC:260:VAL:HB	9:ID:397:TRP:HH2	1.79	0.47
9:ID:32:PRO:HD3	9:ID:81:PHE:CZ	2.50	0.47
9:ID:198:GLU:HA	9:ID:264:HIS:HB2	1.96	0.47
9:ID:336:LYS:HZ2	36:Y1:235:THR:HB	1.78	0.47
8:II:199:ASP:HB2	8:II:256:GLN:HE21	1.78	0.47
9:IJ:6:HIS:CD2	9:IJ:21:TRP:HE1	2.32	0.47
9:IL:19:LYS:HA	9:IL:19:LYS:HD3	1.72	0.47
8:IO:7:ILE:HG22	8:IO:7:ILE:O	2.15	0.47
8:IO:414:GLU:O	8:IO:417:GLU:HG2	2.15	0.47
9:IP:293:MET:HE2	9:IP:293:MET:HB2	1.78	0.47
19:J1:201:ALA:HA	19:J1:204:MET:SD	2.54	0.47
19:J1:267:GLU:HA	41:b2:214:GLU:OE1	2.15	0.47
19:J5:134:THR:HG22	19:J5:136:ARG:H	1.79	0.47
8:JC:154:MET:SD	8:JC:193:THR:HG22	2.54	0.47
8:JE:385:ALA:HA	8:JE:388:TRP:CD1	2.50	0.47
9:JF:7:LEU:HB2	9:JF:135:LEU:HB2	1.96	0.47
8:JK:326:LYS:NZ	9:JL:220:PRO:O	2.48	0.47
8:JM:138:PHE:CD1	8:JM:169:PHE:HB2	2.50	0.47
9:JP:208:TYR:HB3	9:JP:212:PHE:CZ	2.49	0.47
9:JP:212:PHE:HB3	9:JP:213:ARG:HE	1.80	0.47
9:JP:295:ASP:OD1	9:JP:297:LYS:N	2.39	0.47
8:JQ:11:GLN:NE2	8:JQ:69:ASP:OD1	2.47	0.47
8:JQ:105:ARG:HG2	8:JQ:411:GLU:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JQ:310:GLY:O	8:JQ:342:GLN:NE2	2.47	0.47
8:KA:290:GLU:HA	8:KA:293:ASN:HD21	1.78	0.47
9:KB:106:TYR:C	9:KB:106:TYR:CD1	2.92	0.47
8:KE:108:TYR:O	8:KE:112:LYS:NZ	2.44	0.47
8:KE:405:VAL:O	8:KE:409:VAL:HG23	2.15	0.47
8:KE:434:GLU:O	8:KE:437:VAL:HG12	2.15	0.47
9:KF:83:GLN:O	9:LF:281:TYR:OH	2.25	0.47
9:KF:246:LEU:HD11	50:KG:501:GTP:H5"	1.97	0.47
9:KH:8:GLN:O	9:KH:66:VAL:HG22	2.14	0.47
9:KH:44:LEU:HA	9:KH:47:ILE:HG13	1.97	0.47
9:KH:267:MET:HE3	9:KH:301:ALA:HB3	1.97	0.47
8:KI:3:GLU:HA	8:KI:51:THR:HA	1.96	0.47
9:KJ:8:GLN:HB3	9:KJ:65:LEU:HA	1.96	0.47
8:KM:66:VAL:HG22	8:KM:121:ARG:NH2	2.30	0.47
8:KM:153:LEU:O	8:KM:157:LEU:N	2.48	0.47
9:KN:133:PHE:CE2	9:KN:159:TYR:HD2	2.32	0.47
8:KO:52:PHE:CE2	8:KO:243:ARG:HD3	2.49	0.47
9:LB:307:HIS:HB3	44:h1:62:GLU:OE1	2.15	0.47
9:LH:254:ALA:O	9:LH:258:VAL:HG22	2.14	0.47
8:LI:264:ARG:HH21	43:j:84:LYS:HZ1	1.61	0.47
9:LL:149:THR:HB	9:LL:191:GLN:HG2	1.96	0.47
9:LL:323:MET:HE3	8:LM:224:TYR:CD2	2.49	0.47
9:LN:156:ARG:HD3	9:LN:164:MET:HG2	1.97	0.47
8:LO:49:PHE:HB2	8:LO:53:PHE:HD2	1.80	0.47
8:LO:90:GLU:C	43:k:129:ARG:HH12	2.22	0.47
8:LO:112:LYS:HE2	45:i1:67:THR:HG22	1.96	0.47
8:LO:393:HIS:HA	8:LO:396:ASP:HB2	1.96	0.47
22:M1:165:LEU:HD21	27:P3:87:PHE:HZ	1.80	0.47
22:M3:142:LYS:HD3	22:M3:142:LYS:HA	1.74	0.47
22:M4:178:PHE:HD2	22:M4:182:LYS:HG2	1.79	0.47
8:MA:392:ASP:HB3	43:h:32:ARG:HH12	1.80	0.47
9:MD:68:LEU:HD23	9:MD:112:LEU:HD22	1.97	0.47
9:MD:323:MET:HA	9:MD:326:VAL:CG1	2.42	0.47
8:MG:81:GLY:O	8:MG:84:ARG:HG2	2.13	0.47
8:MG:104:ALA:HB1	8:MG:411:GLU:OE1	2.15	0.47
8:MG:328:VAL:HG11	8:MG:353:VAL:HG11	1.97	0.47
9:MH:252:LYS:HD3	8:MI:100:ALA:HA	1.97	0.47
9:MJ:203:ASP:OD2	9:MJ:302:ALA:HB2	2.15	0.47
9:ML:322:SER:OG	8:MM:222:PRO:O	2.30	0.47
8:MM:150:ALA:O	8:MM:154:MET:HG2	2.14	0.47
9:MN:327:ASP:HA	9:MN:330:MET:SD	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MN:330:MET:HA	9:MN:333:VAL:HG22	1.97	0.47
9:MP:7:LEU:HB2	9:MP:135:LEU:HA	1.97	0.47
17:N:276:TYR:HE1	17:N:289:ILE:HG23	1.80	0.47
8:NA:313:MET:HG3	8:NA:344:VAL:HG11	1.97	0.47
9:NB:213:ARG:HH21	9:NB:297:LYS:HD3	1.79	0.47
9:ND:117:LEU:O	9:ND:121:ARG:HG2	2.15	0.47
8:NE:136:LEU:HB2	8:NE:169:PHE:CE1	2.50	0.47
9:NF:117:LEU:HD21	9:NF:154:LYS:HE2	1.97	0.47
9:NF:173:PRO:HG3	9:NF:380:ARG:HD2	1.96	0.47
9:NF:203:ASP:O	9:NF:207:LEU:HG	2.15	0.47
8:NG:381:THR:OG1	8:NG:382:THR:N	2.48	0.47
9:NH:86:ARG:NH1	9:NH:123:GLU:OE2	2.47	0.47
9:NJ:162:ARG:HH21	9:NJ:251:ARG:HH22	1.63	0.47
9:NJ:164:MET:HE3	9:NJ:164:MET:HA	1.96	0.47
9:NJ:189:VAL:HG11	9:NJ:378:PHE:HZ	1.80	0.47
8:NK:27:GLU:OE2	8:NK:243:ARG:NH2	2.44	0.47
8:NK:133:GLN:HG3	8:NK:252:LEU:HD23	1.97	0.47
9:NL:17:GLY:HA2	9:NL:20:PHE:HB3	1.96	0.47
8:NM:133:GLN:HB3	8:NM:252:LEU:HD22	1.96	0.47
8:NM:320:ARG:NE	8:NM:360:PRO:HG3	2.29	0.47
9:NN:36:TYR:OH	9:NN:40:SER:O	2.31	0.47
9:NP:21:TRP:HA	9:NP:24:ILE:HG12	1.97	0.47
23:O:51:GLU:O	23:O:55:ARG:HG2	2.15	0.47
9:OB:253:LEU:O	9:OB:256:ASN:N	2.45	0.47
8:OC:308:ARG:HH21	36:Y4:182:PRO:HA	1.80	0.47
8:OE:386:GLU:N	8:OE:386:GLU:OE1	2.46	0.47
9:OF:313:VAL:HB	9:OF:349:VAL:HG22	1.96	0.47
8:OG:207:GLU:HA	8:OG:210:TYR:CD2	2.50	0.47
9:OH:323:MET:HB2	9:OH:323:MET:HE3	1.50	0.47
8:OI:121:ARG:HH21	8:OI:124:LYS:HB2	1.78	0.47
9:OJ:55:THR:HB	9:PJ:283:ALA:HA	1.97	0.47
9:OL:121:ARG:NH1	9:OL:125:GLU:OE2	2.44	0.47
9:OL:361:LEU:HD12	9:OL:362:LYS:H	1.79	0.47
8:OM:183:GLU:HG3	8:OM:184:PRO:HD3	1.97	0.47
9:ON:217:LEU:HD12	9:ON:220:PRO:HB3	1.97	0.47
8:OO:230:LEU:HD23	8:OO:231:ILE:HD13	1.96	0.47
9:OP:72:THR:O	9:OP:75:SER:OG	2.31	0.47
26:P2:111:LYS:HE3	26:P2:116:ARG:HA	1.96	0.47
27:P6:13:ASP:N	27:P6:13:ASP:OD1	2.48	0.47
27:P6:155:GLY:HA3	11:R3:358:GLN:HE21	1.79	0.47
8:PC:53:PHE:HB3	8:PC:61:HIS:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PD:305:PRO:HA	9:PD:373:ALA:HB2	1.95	0.47
8:PE:132:LEU:O	8:PE:164:LYS:NZ	2.39	0.47
8:PE:326:LYS:HG2	9:PF:220:PRO:HG2	1.96	0.47
8:PG:391:LEU:HD12	8:PG:394:LYS:HZ3	1.80	0.47
8:PK:121:ARG:HE	8:PK:121:ARG:HA	1.80	0.47
8:PK:154:MET:HE1	8:PK:194:THR:HA	1.95	0.47
8:PK:326:LYS:HE3	9:PL:220:PRO:O	2.15	0.47
9:PL:31:ASP:OD1	9:PL:35:THR:N	2.46	0.47
9:PL:322:SER:OG	9:PL:323:MET:N	2.41	0.47
9:PN:16:ILE:HD13	9:PN:229:VAL:HG11	1.95	0.47
9:QB:238:THR:OG1	9:QB:354:CYS:SG	2.56	0.47
9:QB:323:MET:HE3	8:QC:224:TYR:CD2	2.47	0.47
8:QC:31:GLN:HG2	8:QC:35:GLN:O	2.13	0.47
8:QC:302:MET:N	8:QC:302:MET:SD	2.88	0.47
9:QD:86:ARG:NE	9:RD:281:TYR:HB3	2.30	0.47
8:QE:5:ILE:O	8:QE:136:LEU:HD23	2.14	0.47
9:QF:139:LEU:HB2	9:QF:171:PRO:HD3	1.96	0.47
9:QF:380:ARG:NH2	9:QF:381:ILE:HG12	2.30	0.47
8:QG:7:ILE:HA	8:QG:66:VAL:HG23	1.97	0.47
8:QG:19:ALA:HB1	8:QG:229:ARG:HH11	1.80	0.47
8:QI:133:GLN:CD	8:QI:252:LEU:HD23	2.40	0.47
9:QJ:151:LEU:HD23	9:QJ:154:LYS:HZ3	1.80	0.47
9:QJ:244:GLY:N	9:QJ:247:ASN:OD1	2.45	0.47
8:QM:6:SER:HB3	8:QM:8:HIS:CD2	2.50	0.47
9:QN:46:ARG:NH1	9:QN:240:LEU:O	2.46	0.47
8:QO:70:LEU:HD23	8:QO:145:THR:HG23	1.96	0.47
29:R:69:MET:HE2	29:R:69:MET:HB3	1.76	0.47
11:R1:29:GLU:OE1	11:R1:30:ARG:HD2	2.14	0.47
11:R1:110:LEU:O	11:R1:114:ILE:HG22	2.15	0.47
11:R3:269:LEU:HD23	11:R3:269:LEU:HA	1.55	0.47
11:R3:338:LEU:HA	11:R3:341:GLU:OE1	2.14	0.47
11:R4:413:ARG:NE	11:R4:417:ARG:NH2	2.62	0.47
8:RC:79:ARG:NH2	8:RC:92:LEU:O	2.48	0.47
9:RD:263:LEU:HD22	9:RD:422:TYR:HD2	1.80	0.47
8:RG:377:MET:HE3	8:RG:378:LEU:N	2.28	0.47
9:RH:371:SER:O	9:RH:422:TYR:OH	2.28	0.47
8:RK:56:THR:HA	8:SI:285:GLN:HB2	1.97	0.47
9:RN:427:ASP:OD1	9:RN:427:ASP:N	2.36	0.47
9:RP:7:LEU:N	9:RP:134:GLN:O	2.44	0.47
9:RP:51:TYR:HD2	9:RP:59:TYR:HB3	1.79	0.47
29:S:223:GLU:O	29:S:226:GLU:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S0:120:LEU:HD21	12:S1:441:SER:HA	1.97	0.47
12:S4:400:LEU:HD11	12:S4:421:VAL:HG12	1.96	0.47
12:S5:141:HIS:CE1	12:S6:419:ARG:HG2	2.50	0.47
12:S8:133:GLN:O	12:S8:137:LYS:HG3	2.15	0.47
12:S9:193:GLN:O	12:S9:197:GLU:HG3	2.15	0.47
8:SC:271:THR:OG1	8:SC:301:GLN:OE1	2.29	0.47
9:SD:270:PHE:HB3	9:SD:273:LEU:HD21	1.95	0.47
8:SI:36:MET:HE3	8:SI:61:HIS:ND1	2.29	0.47
9:SN:31:ASP:OD1	9:SN:35:THR:N	2.48	0.47
9:SN:182:PRO:O	9:SN:186:THR:OG1	2.30	0.47
9:SN:299:MET:HE3	9:SN:300:MET:N	2.29	0.47
25:T:122:ILE:HG12	25:T:133:VAL:HG22	1.96	0.47
25:T:156:LYS:HD3	25:T:163:TYR:HA	1.97	0.47
14:T0:61:TYR:O	30:V9:380:ARG:NH2	2.48	0.47
14:T0:99:SER:HA	14:T1:376:ARG:HH22	1.79	0.47
14:T1:175:GLU:HA	14:T1:178:LYS:HD2	1.96	0.47
14:T1:360:ARG:NH2	14:T1:371:ASP:OD1	2.48	0.47
14:T2:22:LEU:HD22	14:T3:270:ARG:NH1	2.29	0.47
14:T2:262:HIS:CG	30:W0:206:LEU:HD21	2.50	0.47
14:T4:84:LEU:HD13	14:T5:394:LYS:HG3	1.96	0.47
14:T5:413:GLU:OE1	14:T5:414:LYS:N	2.48	0.47
8:TA:91:GLN:HA	8:TA:121:ARG:HD3	1.96	0.47
9:TB:23:VAL:O	9:TB:27:GLU:N	2.45	0.47
9:TB:313:VAL:HG13	9:TB:367:PHE:HE1	1.80	0.47
9:TB:372:THR:HA	9:TB:422:TYR:CE1	2.49	0.47
8:TC:298:PRO:HA	8:TC:301:GLN:HG2	1.96	0.47
9:TD:130:LEU:O	9:TD:162:ARG:NH1	2.43	0.47
8:TE:150:ALA:HA	8:TE:153:LEU:HG	1.96	0.47
8:TE:316:CYS:HA	8:TE:352:LYS:HB2	1.96	0.47
8:TE:317:MET:SD	8:TE:319:TYR:HE1	2.37	0.47
9:TH:119:VAL:HG13	9:TH:122:LYS:HE3	1.95	0.47
9:TJ:25:SER:HB3	9:TJ:30:ILE:HB	1.96	0.47
8:TK:3:GLU:H	8:TK:133:GLN:HG2	1.80	0.47
9:TL:249:ASP:N	9:TL:249:ASP:OD1	2.48	0.47
9:TL:321:MET:N	9:TL:321:MET:SD	2.88	0.47
9:TL:372:THR:HA	9:TL:422:TYR:CE1	2.46	0.47
30:U0:445:VAL:HG11	30:U5:278:SER:HB2	1.97	0.47
30:U1:94:ASP:OD2	31:W:560:ARG:NE	2.46	0.47
30:U1:134:MET:HE3	30:U1:134:MET:HB2	1.48	0.47
30:U4:85:ALA:HB2	31:Z:573:HIS:NE2	2.29	0.47
30:U4:121:LEU:O	30:U4:124:MET:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U5:131:ILE:HD12	30:U6:385:LYS:HD2	1.96	0.47
30:U5:257:LYS:HE3	30:U5:296:TRP:HE1	1.79	0.47
30:U8:358:GLN:NE2	30:U8:359:THR:OG1	2.47	0.47
30:U9:343:PHE:HB3	30:U9:470:MET:SD	2.55	0.47
8:UA:206:ASN:OD1	8:UA:227:LEU:HD21	2.14	0.47
9:UD:44:LEU:CD1	9:UD:47:ILE:HD13	2.44	0.47
9:UD:273:LEU:O	9:UD:292:GLN:NE2	2.44	0.47
8:UE:215:ARG:NH2	8:UE:299:ALA:O	2.48	0.47
9:UH:167:PHE:CE2	9:UH:233:MET:HG3	2.50	0.47
8:UI:345:ASP:N	8:UI:345:ASP:OD1	2.46	0.47
9:UJ:261:PRO:HG3	8:UK:406:HIS:CD2	2.49	0.47
8:UK:166:LYS:HG3	8:UK:198:SER:HA	1.96	0.47
8:UM:325:PRO:HA	8:UM:328:VAL:HB	1.96	0.47
9:UN:244:GLY:HA3	9:UN:354:CYS:HA	1.96	0.47
25:V:451:ILE:HG23	25:V:466:PHE:HB3	1.95	0.47
30:V1:257:LYS:O	30:V1:261:GLN:HG2	2.15	0.47
30:V1:312:ALA:HA	30:V1:315:ILE:HD12	1.96	0.47
30:V3:162:ARG:HA	30:V3:162:ARG:CZ	2.44	0.47
30:V7:277:ILE:O	30:V7:277:ILE:HG23	2.15	0.47
30:V8:462:LEU:HD23	30:V8:462:LEU:HA	1.80	0.47
30:V9:440:THR:O	30:V9:444:LEU:HG	2.14	0.47
9:VB:285:THR:HB	9:VB:287:PRO:HD2	1.96	0.47
9:VB:382:SER:HB2	9:VB:415:MET:HE1	1.96	0.47
8:VC:186:ASN:O	8:VC:190:THR:OG1	2.25	0.47
8:VE:28:HIS:HE1	8:VE:49:PHE:HA	1.80	0.47
9:VF:143:THR:HG23	9:VF:147:MET:HG2	1.96	0.47
9:VH:52:ASN:HB3	9:VH:60:VAL:HG23	1.97	0.47
9:VH:290:THR:HG21	9:VH:329:GLN:HB3	1.96	0.47
9:VH:344:TRP:H	9:VH:344:TRP:CD1	2.31	0.47
8:VI:130:THR:OG1	8:VI:131:GLY:N	2.47	0.47
8:VK:153:LEU:O	8:VK:156:ARG:HG3	2.13	0.47
9:VL:73:MET:HE3	9:VL:90:PHE:HD2	1.80	0.47
9:VL:226:ASN:O	9:VL:230:SER:N	2.46	0.47
9:VN:73:MET:SD	9:VN:73:MET:N	2.76	0.47
9:VN:362:LYS:HB2	9:VN:363:MET:SD	2.55	0.47
8:VO:269:LEU:HD22	8:VO:303:VAL:HG21	1.96	0.47
31:W:638:PHE:H	31:W:638:PHE:HD1	1.60	0.47
31:W:667:LEU:HD21	31:W:674:LEU:HD11	1.96	0.47
30:W0:308:GLN:O	30:W0:311:ARG:N	2.44	0.47
30:W4:465:ASP:HA	30:W4:469:CYS:HB2	1.97	0.47
8:WC:311:LYS:HG3	8:WC:342:GLN:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WC:317:MET:N	8:WC:352:LYS:O	2.46	0.47
9:WD:274:THR:HB	9:WD:278:SER:HB2	1.95	0.47
9:WF:8:GLN:HG2	9:WF:14:ASN:HA	1.97	0.47
9:WF:66:VAL:HA	9:WF:91:VAL:O	2.14	0.47
9:WF:322:SER:OG	8:WG:222:PRO:O	2.18	0.47
8:WG:108:TYR:CE2	8:WG:413:MET:HE3	2.49	0.47
9:WH:330:MET:HA	9:WH:333:VAL:HG12	1.96	0.47
8:WI:206:ASN:OD1	50:WI:501:GTP:N2	2.47	0.47
8:WI:258:ASN:ND2	8:WI:352:LYS:HD3	2.29	0.47
8:WK:288:VAL:O	8:WK:292:THR:HG22	2.15	0.47
9:WL:8:GLN:HE21	9:WL:14:ASN:HA	1.79	0.47
9:WL:31:ASP:OD1	9:WL:35:THR:N	2.48	0.47
8:WM:112:LYS:HE2	8:WM:112:LYS:HB2	1.84	0.47
8:WO:119:LEU:HD11	8:WO:156:ARG:HE	1.79	0.47
8:WO:324:VAL:HG12	8:WO:326:LYS:HG2	1.97	0.47
9:WP:279:GLN:O	9:WP:282:ARG:NH2	2.47	0.47
32:X2:206:LEU:HD12	32:X2:211:TYR:HB3	1.96	0.47
34:X8:192:LYS:NZ	34:X8:255:ARG:O	2.42	0.47
34:X8:264:ASN:H	34:X8:267:LEU:HD23	1.80	0.47
35:XA:68:THR:HB	35:XA:152:LEU:HD12	1.96	0.47
35:XA:121:MET:SD	35:XA:121:MET:N	2.87	0.47
35:XB:75:PHE:HB2	35:XB:168:SER:HB3	1.96	0.47
35:XG:1:MET:HE3	35:XG:1:MET:HB2	1.79	0.47
35:XG:114:VAL:HG22	35:XG:119:CYS:SG	2.55	0.47
35:XH:176:GLU:H	35:XH:176:GLU:CD	2.23	0.47
36:Y2:146:VAL:HG12	36:Y2:148:MET:H	1.79	0.47
37:YB:89:TYR:CZ	37:YB:122:GLY:HA2	2.50	0.47
37:YF:97:PHE:HB3	37:YF:136:PRO:HB2	1.97	0.47
37:YG:126:ILE:HD12	37:YG:126:ILE:H	1.80	0.47
37:YH:174:TYR:O	37:YH:231:MET:HE2	2.14	0.47
31:Z:153:ASN:HB3	31:Z:156:ILE:HG13	1.96	0.47
31:Z:612:MET:HA	31:Z:612:MET:HE3	1.96	0.47
39:a:345:LYS:HG3	39:a:346:LYS:N	2.30	0.47
40:a4:145:LYS:HE2	40:a4:145:LYS:HB2	1.69	0.47
41:b1:337:ALA:O	41:b1:341:ARG:NH1	2.48	0.47
41:b1:366:LYS:HB2	41:b1:366:LYS:HE3	1.58	0.47
41:b2:402:GLN:NE2	41:b2:408:GLN:HA	2.18	0.47
39:c:141:ALA:C	39:c:145:ARG:HH21	2.22	0.47
42:e:141:SER:HB3	42:e:144:LYS:HB3	1.97	0.47
42:g:84:VAL:HG23	42:g:113:LYS:HB2	1.97	0.47
42:g:170:ARG:NH1	42:g:186:GLU:OE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:g:337:ASP:OD2	42:g:380:ILE:N	2.39	0.47
45:i1:45:ASP:O	45:i1:46:ARG:HG2	2.14	0.47
46:i2:1385:LYS:HA	46:i2:1385:LYS:HD3	1.80	0.47
46:i3:1442:ARG:NH2	46:i3:1489:GLU:OE1	2.48	0.47
46:i4:1400:ILE:O	46:i4:1404:VAL:HB	2.15	0.47
43:j:211:PHE:O	43:j:214:LEU:HB2	2.14	0.47
45:n:100:PRO:HA	45:n:103:LEU:HD12	1.97	0.47
47:p:420:ARG:HD2	47:p:420:ARG:C	2.39	0.47
2:2:456:LYS:HA	2:2:456:LYS:HD2	1.78	0.47
9:AH:256:ASN:OD1	8:AI:181:VAL:HG12	2.15	0.47
8:AK:191:THR:HA	8:AK:194:THR:HG22	1.96	0.47
8:AK:221:ARG:HH22	22:M3:35:SER:N	2.13	0.47
11:B1:396:LYS:NZ	28:Q1:62:VAL:O	2.48	0.47
11:B3:233:MET:HA	11:B3:233:MET:HE3	1.96	0.47
11:B3:249:GLN:O	11:B3:253:GLU:HG2	2.15	0.47
11:B5:117:LEU:HD22	11:B5:137:LEU:HD13	1.97	0.47
9:BB:323:MET:HE2	8:BC:224:TYR:CE1	2.40	0.47
9:BD:407:GLU:HG3	9:BD:408:PHE:HD1	1.79	0.47
8:BG:139:HIS:O	8:BG:170:ALA:HA	2.15	0.47
8:BG:437:VAL:O	9:BH:391:ARG:NH2	2.48	0.47
8:BK:73:THR:O	8:BK:77:GLU:HG2	2.15	0.47
9:CH:232:THR:HG21	9:CH:268:PRO:HB2	1.96	0.47
9:CJ:198:GLU:HA	9:CJ:264:HIS:HB2	1.97	0.47
8:CK:186:ASN:O	8:CK:190:THR:OG1	2.28	0.47
8:CM:102:ASN:HB3	8:CM:105:ARG:HB2	1.97	0.47
14:D0:79:HIS:O	14:D0:83:GLN:HG2	2.15	0.47
14:D4:40:GLY:O	14:D4:47:ARG:NH1	2.48	0.47
9:DB:216:LYS:HZ1	25:T:285:ARG:C	2.23	0.47
9:DD:318:ARG:HD3	9:DD:358:PRO:HD3	1.96	0.47
8:DG:150:ALA:HB1	8:DG:154:MET:HE3	1.97	0.47
9:DH:31:ASP:OD1	9:DH:35:THR:N	2.47	0.47
9:DN:325:GLU:N	9:DN:325:GLU:OE2	2.48	0.47
8:DO:18:ASN:HD21	8:DO:78:VAL:HG22	1.80	0.47
9:EB:253:LEU:O	9:EB:257:MET:N	2.47	0.47
9:EH:31:ASP:OD1	9:EH:35:THR:N	2.47	0.47
9:EJ:323:MET:HE2	8:EK:210:TYR:OH	2.15	0.47
9:EL:45:GLU:OE2	9:EL:46:ARG:NH2	2.48	0.47
8:FC:317:MET:HE2	8:FC:317:MET:HA	1.97	0.47
9:FD:31:ASP:OD1	9:FD:35:THR:N	2.47	0.47
9:FD:309:ARG:H	9:FD:372:THR:HB	1.79	0.47
9:FF:69:GLU:HG2	9:FF:71:GLY:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FF:318:ARG:HD3	9:FF:358:PRO:HD3	1.97	0.47
8:FG:348:PRO:HD2	9:FH:388:MET:HE3	1.96	0.47
9:FJ:222:TYR:HD2	52:FJ:502:GDP:C6	2.33	0.47
9:FN:54:ALA:HA	9:GN:283:ALA:HB2	1.96	0.47
9:FN:330:MET:HE1	8:FO:177:VAL:HA	1.95	0.47
9:GB:1:MET:N	9:GB:128:ASP:OD1	2.48	0.47
8:GE:102:ASN:ND2	8:GE:105:ARG:HG3	2.30	0.47
9:GJ:250:LEU:C	9:GJ:250:LEU:HD23	2.40	0.47
8:GK:108:TYR:HA	8:GK:112:LYS:HE3	1.95	0.47
8:GK:402:ARG:HD3	8:GK:405:VAL:HG21	1.97	0.47
9:GL:412:GLU:O	9:GL:416:ASN:N	2.41	0.47
8:HA:51:THR:HG21	8:HA:243:ARG:HG2	1.96	0.47
8:HC:396:ASP:HB2	8:HC:422:ARG:HH22	1.79	0.47
9:HD:25:SER:OG	9:HD:30:ILE:HB	2.15	0.47
9:HD:258:VAL:HB	8:HE:407:TRP:HZ2	1.80	0.47
8:HE:323:VAL:HG21	8:HE:355:ILE:HD12	1.95	0.47
8:HG:50:ASN:O	8:HG:64:ARG:NH1	2.48	0.47
9:HH:105:HIS:HD2	9:HH:150:LEU:HB2	1.79	0.47
8:HM:139:HIS:O	8:HM:170:ALA:HA	2.15	0.47
9:HN:109:GLY:O	9:HN:113:VAL:HG13	2.15	0.47
8:HO:208:ALA:O	8:HO:212:ILE:HG13	2.15	0.47
9:IB:221:THR:N	9:IB:224:ASP:OD2	2.47	0.47
9:ID:372:THR:HA	9:ID:422:TYR:CE1	2.43	0.47
9:IF:116:VAL:HG11	9:IF:151:LEU:HD11	1.97	0.47
9:IF:253:LEU:O	9:IF:257:MET:HG2	2.15	0.47
8:IG:88:HIS:NE2	9:JH:278:SER:HA	2.30	0.47
8:IG:187:SER:O	8:IG:191:THR:OG1	2.33	0.47
9:IJ:146:GLY:O	9:IJ:149:THR:OG1	2.29	0.47
8:IK:132:LEU:HB3	8:IK:164:LYS:NZ	2.30	0.47
8:IM:311:LYS:HZ3	8:IM:344:VAL:HG12	1.80	0.47
9:IN:87:PRO:HD3	8:JO:283:HIS:CD2	2.50	0.47
8:IO:426:ALA:HA	8:IO:429:GLU:OE1	2.14	0.47
9:IP:1:MET:SD	9:IP:1:MET:N	2.84	0.47
19:J2:33:ARG:HH21	19:J2:74:ARG:HH21	1.62	0.47
19:J3:68:LEU:HB3	8:OG:221:ARG:HH21	1.79	0.47
8:JI:329:ASN:ND2	9:JJ:175:VAL:HG11	2.30	0.47
9:JJ:182:PRO:O	9:JJ:186:THR:OG1	2.22	0.47
8:JK:390:ARG:HA	8:JK:390:ARG:HD3	1.81	0.47
9:JL:101:TRP:CZ3	9:JL:403:MET:HE1	2.50	0.47
9:JN:67:ASP:HB3	9:JN:73:MET:HE3	1.96	0.47
9:JN:74:ASP:HA	9:JN:77:ARG:HE	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KE:6:SER:HB3	8:KE:8:HIS:NE2	2.29	0.47
8:KE:12:ALA:O	8:KE:16:ILE:HG12	2.15	0.47
8:KE:332:ILE:HA	8:KE:335:ILE:HG22	1.96	0.47
9:KF:139:LEU:HA	9:KF:145:SER:HB3	1.97	0.47
8:KI:286:LEU:O	8:KI:373:ARG:NH1	2.48	0.47
9:KN:69:GLU:HG2	9:KN:71:GLY:H	1.79	0.47
9:KN:112:LEU:HB2	9:KN:147:MET:HE1	1.97	0.47
9:LB:346:PRO:HD3	8:LC:397:LEU:HD11	1.97	0.47
9:LF:156:ARG:HG3	9:LF:195:ASN:HB3	1.97	0.47
8:LG:116:ASP:OD1	8:LG:116:ASP:N	2.48	0.47
8:LG:130:THR:OG1	8:LG:131:GLY:N	2.48	0.47
9:LL:399:THR:O	45:n:114:SER:OG	2.33	0.47
8:LM:385:ALA:HA	8:LM:388:TRP:CE3	2.49	0.47
9:LP:23:VAL:HG22	25:O6:11:PHE:HE1	1.80	0.47
9:LP:55:THR:HG23	9:MP:283:ALA:HA	1.96	0.47
22:M4:168:SER:OG	22:M4:170:ASP:OD1	2.29	0.47
9:ML:268:PRO:HG2	9:ML:300:MET:SD	2.55	0.47
8:MM:408:TYR:HB3	8:MM:413:MET:HE3	1.96	0.47
9:MN:64:VAL:HG21	9:MN:120:VAL:HG12	1.97	0.47
9:MP:5:VAL:HB	9:MP:133:PHE:HD1	1.79	0.47
8:NC:66:VAL:HG23	8:NC:121:ARG:HG2	1.96	0.47
9:ND:321:MET:N	9:ND:321:MET:SD	2.87	0.47
9:NF:285:THR:OG1	9:NF:287:PRO:HD2	2.15	0.47
9:NF:287:PRO:HG3	9:NF:329:GLN:NE2	2.29	0.47
8:NO:319:TYR:HD2	8:NO:323:VAL:HG21	1.80	0.47
8:NO:326:LYS:HG3	8:NO:327:ASP:N	2.28	0.47
8:OA:328:VAL:O	8:OA:332:ILE:HG12	2.14	0.47
9:OD:403:MET:HE1	9:OD:408:PHE:CZ	2.50	0.47
9:OF:54:ALA:HB3	9:OF:58:LYS:HB3	1.96	0.47
8:OG:7:ILE:O	8:OG:9:VAL:HG23	2.15	0.47
8:OG:14:VAL:HG22	8:OG:67:PHE:HD2	1.80	0.47
8:OG:265:ILE:HG22	8:OG:380:ASN:HD21	1.78	0.47
9:OH:270:PHE:CD2	9:OH:272:PRO:HD2	2.49	0.47
9:OJ:87:PRO:HA	9:OJ:90:PHE:CE2	2.50	0.47
9:OJ:296:ALA:HB3	36:Y4:55:GLY:HA2	1.97	0.47
8:OK:168:GLU:O	8:OK:201:ALA:HA	2.15	0.47
9:OL:285:THR:HG23	9:OL:287:PRO:HD2	1.95	0.47
8:OO:132:LEU:O	8:OO:164:LYS:NZ	2.37	0.47
8:OO:203:MET:H	8:OO:203:MET:HE3	1.78	0.47
9:OP:68:LEU:HB3	9:OP:96:GLY:HA2	1.97	0.47
27:P3:176:MET:SD	14:T5:337:ALA:HB3	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PD:371:SER:OG	9:PD:372:THR:N	2.47	0.47
8:PE:209:ILE:HD12	8:PE:227:LEU:HD23	1.96	0.47
9:PH:252:LYS:O	9:PH:350:LYS:NZ	2.47	0.47
28:Q5:52:THR:HB	28:Q5:53:PRO:HD2	1.97	0.47
9:QB:165:ASN:HD22	9:QB:167:PHE:HE1	1.61	0.47
9:QD:330:MET:HB3	9:QD:349:VAL:HG21	1.97	0.47
8:QE:88:HIS:NE2	8:QE:90:GLU:HB3	2.30	0.47
9:QF:69:GLU:HG2	9:QF:71:GLY:H	1.79	0.47
9:QP:86:ARG:NH2	9:RP:278:SER:O	2.43	0.47
9:QP:114:ASP:N	9:QP:114:ASP:OD2	2.44	0.47
11:R0:315:HIS:HB3	11:R1:202:LYS:HG2	1.97	0.47
11:R1:134:GLU:O	11:R1:138:LEU:HG	2.14	0.47
11:R1:324:ARG:HB3	11:R1:328:GLU:C	2.40	0.47
9:RD:261:PRO:HG3	8:RE:406:HIS:CD2	2.50	0.47
8:RE:166:LYS:N	8:RE:199:ASP:OD2	2.40	0.47
9:RF:1:MET:HE3	9:RF:2:ARG:H	1.80	0.47
8:RG:91:GLN:HG2	8:RG:121:ARG:HD3	1.97	0.47
8:RI:88:HIS:CE1	8:RI:90:GLU:HB3	2.50	0.47
9:RJ:255:VAL:HG21	8:RK:100:ALA:O	2.15	0.47
8:RK:263:PRO:HG3	9:RL:396:HIS:CD2	2.49	0.47
12:S0:51:ARG:HD2	12:S0:51:ARG:N	2.30	0.47
12:S0:336:MET:HE2	12:S0:336:MET:N	2.29	0.47
12:S2:281:VAL:HG23	12:S3:398:THR:OG1	2.14	0.47
12:S7:287:VAL:HG21	12:S8:401:ASP:HA	1.97	0.47
12:S8:436:GLN:HE22	12:S8:439:ARG:HH12	1.62	0.47
12:S9:318:SER:OG	12:S9:322:ARG:NH2	2.26	0.47
8:SA:317:MET:SD	8:SA:318:LEU:N	2.87	0.47
9:SB:296:ALA:HA	9:SB:299:MET:HG2	1.96	0.47
8:SC:345:ASP:N	8:SC:345:ASP:OD1	2.46	0.47
8:SI:297:GLU:O	8:SI:301:GLN:NE2	2.34	0.47
9:SJ:156:ARG:NH1	9:SJ:197:ASP:OD1	2.43	0.47
8:SM:263:PRO:HG3	9:SN:396:HIS:CD2	2.48	0.47
25:T:259:CYS:HA	40:a1:159:ARG:HH12	1.79	0.47
14:T2:325:THR:O	14:T2:329:ILE:HG23	2.14	0.47
14:T3:175:GLU:HB3	14:T3:300:VAL:HG22	1.97	0.47
8:TC:201:ALA:O	8:TC:268:PRO:HD2	2.15	0.47
8:TE:49:PHE:HB2	8:TE:53:PHE:HD2	1.79	0.47
30:U1:87:PHE:HD2	31:W:563:THR:HG23	1.79	0.47
30:U6:145:ARG:HH22	30:U7:402:ARG:HD2	1.80	0.47
30:U6:446:MET:HE3	30:U6:450:ARG:HH21	1.80	0.47
30:U8:166:GLU:O	30:U8:170:MET:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UB:165:ASN:OD1	9:UB:165:ASN:N	2.48	0.47
9:UB:205:GLU:HA	9:UB:208:TYR:CD1	2.49	0.47
9:UB:274:THR:HB	9:UB:278:SER:HB2	1.95	0.47
9:UB:309:ARG:NH2	9:UB:339:SER:O	2.48	0.47
8:UE:6:SER:HA	8:UE:136:LEU:HD23	1.97	0.47
9:UH:165:ASN:HB2	9:UH:200:TYR:CE2	2.49	0.47
8:UI:21:TRP:HA	8:UI:24:TYR:CD2	2.49	0.47
25:V:418:LYS:HB3	25:V:444:LEU:HD13	1.96	0.47
30:V0:433:ARG:NH1	30:V1:120:SER:OG	2.48	0.47
30:V4:214:ASN:HA	30:V4:217:ARG:HE	1.79	0.47
30:V4:226:GLN:HA	30:V4:229:MET:HE3	1.96	0.47
8:VC:62:VAL:HG22	8:WC:283:HIS:CD2	2.49	0.47
8:VE:130:THR:OG1	8:VE:131:GLY:N	2.48	0.47
8:VE:215:ARG:NH1	8:VE:216:ASN:OD1	2.47	0.47
8:VI:269:LEU:HD22	8:VI:303:VAL:HG21	1.96	0.47
9:VL:396:HIS:HA	9:VL:399:THR:OG1	2.15	0.47
8:VM:328:VAL:HG21	8:VM:355:ILE:HD11	1.95	0.47
8:VO:1:MET:HG3	8:VO:2:ARG:H	1.79	0.47
30:W2:350:GLU:HB3	30:W2:462:LEU:HG	1.97	0.47
30:W4:246:ALA:O	30:W4:249:SER:OG	2.30	0.47
8:WE:2:ARG:HB3	8:WE:242:LEU:HD23	1.96	0.47
9:WF:332:ASN:HB2	9:WF:336:LYS:HZ3	1.80	0.47
8:WG:49:PHE:HD1	8:WG:53:PHE:HB2	1.79	0.47
8:WK:116:ASP:N	8:WK:116:ASP:OD1	2.45	0.47
8:WK:326:LYS:HD3	9:WL:220:PRO:HG2	1.97	0.47
9:WL:309:ARG:HG3	9:WL:426:GLN:HG3	1.97	0.47
8:WM:172:TYR:N	8:WM:204:VAL:O	2.41	0.47
31:X:432:ASN:OD1	31:X:432:ASN:N	2.47	0.47
34:X6:119:ILE:HB	34:X6:150:VAL:HG21	1.97	0.47
35:XE:81:LYS:HG2	35:XE:161:ARG:HB2	1.97	0.47
31:Y:555:GLU:N	31:Y:555:GLU:OE2	2.47	0.47
36:Y1:246:MET:HA	36:Y1:246:MET:HE3	1.97	0.47
36:Y3:67:GLY:HA3	36:Y3:69:ARG:NH2	2.30	0.47
37:YA:89:TYR:CD1	37:YA:125:LYS:HE3	2.50	0.47
37:YB:97:PHE:HB3	37:YB:136:PRO:HB2	1.96	0.47
37:YG:106:PRO:HB2	37:YG:110:PHE:CE2	2.50	0.47
37:YG:165:MET:HE3	37:YG:165:MET:O	2.14	0.47
31:Z:336:GLN:HE22	40:a4:66:LEU:H	1.62	0.47
39:b:393:ARG:O	39:b:397:VAL:HG22	2.15	0.47
41:b3:405:VAL:HG11	44:h3:73:GLN:HB2	1.97	0.47
39:c:113:LYS:HE2	39:c:114:TRP:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:c:341:MET:O	39:c:345:LYS:HG2	2.15	0.47
42:e:228:ASP:HA	42:e:244:PRO:HD2	1.96	0.47
42:e:398:ILE:HD11	42:e:420:VAL:HG11	1.97	0.47
42:f:167:SER:HB2	42:f:173:MET:SD	2.55	0.47
42:f:596:SER:HG	42:f:601:TYR:H	1.59	0.47
42:g:16:LEU:HD13	42:g:615:LYS:HB2	1.97	0.47
42:g:125:TYR:HD1	42:g:141:SER:HA	1.80	0.47
42:g:377:CYS:SG	42:g:391:SER:HB2	2.55	0.47
46:i3:1365:ALA:HB1	46:i3:1369:LYS:HE3	1.95	0.47
46:i3:1400:ILE:HA	46:i3:1403:CYS:SG	2.54	0.47
4:j1:212:ARG:NH2	4:j1:224:ALA:O	2.38	0.47
45:l:30:GLU:OE1	45:l:31:LYS:HB3	2.15	0.47
47:p:261:THR:HA	47:p:264:LYS:HD2	1.97	0.47
47:p:289:GLU:HA	47:p:292:ARG:HD2	1.97	0.47
7:A5:80:LYS:NZ	7:A5:225:VAL:O	2.48	0.47
9:AB:180:VAL:HG23	9:AB:184:ASN:HD21	1.80	0.47
9:AF:202:ILE:HG13	9:AF:268:PRO:HG3	1.96	0.47
9:AF:242:PHE:CG	9:AF:356:ILE:HD11	2.50	0.47
9:AJ:27:GLU:OE2	9:AJ:234:SER:OG	2.23	0.47
8:AM:167:LEU:HD13	8:AM:252:LEU:HD12	1.97	0.47
8:AM:338:LYS:HD2	48:s:72:ASP:OD1	2.15	0.47
9:AN:330:MET:HE3	9:AN:349:VAL:CG1	2.45	0.47
10:B:218:GLU:HG2	10:B:222:LYS:HE3	1.97	0.47
11:B2:319:GLU:OE2	14:D1:208:LYS:NZ	2.37	0.47
11:B3:293:LEU:HD22	11:B3:363:LEU:HD13	1.97	0.47
8:BG:8:HIS:HB2	8:BG:67:PHE:HD1	1.79	0.47
9:BJ:42:LEU:HD11	9:BJ:356:ILE:HD11	1.97	0.47
12:C1:275:ARG:HG2	12:C1:278:SER:HB3	1.96	0.47
12:C2:379:ILE:HD12	12:C2:445:LEU:HD22	1.97	0.47
12:C4:134:GLN:O	12:C4:138:THR:HG23	2.15	0.47
12:C4:363:THR:O	12:C4:367:LYS:HG2	2.15	0.47
8:CG:217:LEU:HB3	8:CG:367:ASP:OD2	2.14	0.47
8:CI:1:MET:HE1	8:CI:50:ASN:HB2	1.95	0.47
8:CI:22:GLU:HG2	27:P5:25:TYR:HE2	1.79	0.47
9:CJ:165:ASN:ND2	9:CJ:200:TYR:HE2	2.13	0.47
9:CL:304:ASP:HB3	9:CL:307:HIS:CE1	2.50	0.47
8:CO:88:HIS:NE2	8:DO:284:GLU:OE2	2.48	0.47
9:CP:7:LEU:N	9:CP:134:GLN:O	2.37	0.47
8:CQ:186:ASN:O	8:CQ:190:THR:OG1	2.22	0.47
14:D3:421:ASN:O	14:D3:425:ILE:HG23	2.15	0.47
14:D4:137:ARG:HD2	14:D4:447:GLN:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DC:178:SER:HB3	8:DC:183:GLU:OE2	2.15	0.47
8:DC:335:ILE:HD13	8:DC:338:LYS:HZ1	1.80	0.47
8:DE:345:ASP:N	8:DE:345:ASP:OD1	2.46	0.47
8:DG:172:TYR:CG	8:DG:203:MET:HE1	2.50	0.47
8:EA:8:HIS:H	8:EA:8:HIS:CD2	2.32	0.47
9:EH:279:GLN:NE2	25:V:385:ASN:OD1	2.48	0.47
9:EL:344:TRP:HZ3	8:EM:403:ALA:HB2	1.80	0.47
8:FA:258:ASN:HD21	9:FB:179:VAL:N	2.09	0.47
9:FB:222:TYR:HE2	52:FB:502:GDP:C4	2.33	0.47
9:FD:150:LEU:HG	9:FD:154:LYS:HE2	1.96	0.47
9:FD:358:PRO:HG2	9:FD:361:LEU:HB3	1.97	0.47
8:FI:317:MET:HB2	8:FI:353:VAL:HA	1.97	0.47
9:FL:61:PRO:HD3	9:FL:84:ILE:HG22	1.96	0.47
9:FL:113:VAL:HG11	9:FL:150:LEU:HD23	1.97	0.47
8:FM:52:PHE:CZ	8:FM:239:THR:HG21	2.49	0.47
9:FN:371:SER:OG	9:FN:372:THR:N	2.48	0.47
8:GC:56:THR:HA	8:HC:285:GLN:HB2	1.96	0.47
9:GF:330:MET:HG3	9:GF:349:VAL:HG21	1.97	0.47
8:GK:151:SER:O	8:GK:155:GLU:HG2	2.15	0.47
8:HE:253:THR:HA	8:HE:256:GLN:HE21	1.80	0.47
8:HM:353:VAL:HG12	9:HN:177:ASP:OD1	2.14	0.47
9:HN:327:ASP:OD1	9:HN:328:GLU:N	2.48	0.47
8:HO:207:GLU:HA	8:HO:210:TYR:HD2	1.80	0.47
8:HO:319:TYR:CE2	8:HO:328:VAL:HG13	2.49	0.47
9:HP:139:LEU:HB2	9:HP:171:PRO:HD3	1.97	0.47
8:IA:32:PRO:O	8:IA:86:LEU:HD21	2.15	0.47
8:IA:121:ARG:HA	8:IA:124:LYS:NZ	2.29	0.47
9:IB:46:ARG:CZ	8:IC:73:THR:HG22	2.45	0.47
9:IB:372:THR:HG21	9:IB:426:GLN:HB2	1.97	0.47
9:ID:336:LYS:NZ	36:Y1:235:THR:HB	2.30	0.47
9:IN:403:MET:HE3	9:IN:407:GLU:HG3	1.96	0.47
8:IO:230:LEU:HD11	8:IO:302:MET:HE1	1.96	0.47
8:IO:257:THR:HG1	9:IP:397:TRP:CD1	2.32	0.47
8:JE:388:TRP:CD1	8:JE:388:TRP:H	2.30	0.47
9:JH:143:THR:O	9:JH:148:GLY:N	2.33	0.47
9:JH:247:ASN:HD22	8:JI:73:THR:HG21	1.80	0.47
9:JH:252:LYS:HG3	8:JI:100:ALA:HA	1.97	0.47
8:JI:253:THR:O	8:JI:257:THR:OG1	2.33	0.47
8:JI:259:LEU:HD13	8:JI:268:PRO:HG2	1.97	0.47
8:JM:345:ASP:N	8:JM:345:ASP:OD1	2.47	0.47
8:JO:155:GLU:OE1	8:JO:197:HIS:NE2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JO:438:ASP:OD2	8:JO:439:SER:N	2.48	0.47
8:JQ:388:TRP:CD1	8:JQ:425:LEU:HD11	2.50	0.47
8:KE:216:ASN:HD22	8:KE:275:VAL:HG13	1.80	0.47
8:KE:417:GLU:N	8:KE:417:GLU:OE1	2.47	0.47
9:KH:181:GLU:OE1	9:KH:181:GLU:N	2.42	0.47
9:KH:344:TRP:HZ3	8:KI:403:ALA:HB2	1.80	0.47
8:KI:184:PRO:O	8:KI:188:ILE:HG22	2.14	0.47
9:KL:268:PRO:HG2	9:KL:300:MET:HG3	1.96	0.47
8:KM:136:LEU:HB3	8:KM:138:PHE:HE1	1.80	0.47
8:KO:241:SER:OG	8:KO:250:VAL:O	2.22	0.47
21:L1:132:LEU:O	21:L1:135:SER:OG	2.21	0.47
21:L1:150:ARG:NH2	8:VG:44:GLY:H	2.13	0.47
9:LD:344:TRP:HZ3	8:LE:403:ALA:HB2	1.80	0.47
9:LF:309:ARG:NH2	9:LF:339:SER:O	2.48	0.47
9:LF:417:ASP:OD2	43:i:101:SER:OG	2.33	0.47
9:LH:114:ASP:OD1	9:LH:114:ASP:N	2.45	0.47
9:LL:300:MET:SD	9:LL:300:MET:N	2.82	0.47
8:LM:166:LYS:N	8:LM:199:ASP:OD2	2.46	0.47
9:LN:279:GLN:NE2	29:S:123:PRO:O	2.48	0.47
8:MA:317:MET:HB3	8:MA:353:VAL:HA	1.97	0.47
9:MD:156:ARG:HG3	9:MD:195:ASN:HB2	1.96	0.47
8:ME:186:ASN:OD1	8:ME:408:TYR:OH	2.29	0.47
9:MH:70:PRO:HB3	9:MH:92:PHE:CD2	2.49	0.47
9:MH:409:THR:HB	45:m:38:TYR:CD2	2.49	0.47
8:MM:312:TYR:HE2	8:MM:341:ILE:HD12	1.79	0.47
8:NC:345:ASP:N	8:NC:345:ASP:OD1	2.47	0.47
9:NF:213:ARG:NE	9:NF:297:LYS:HD2	2.30	0.47
8:NG:303:VAL:O	8:NG:305:CYS:N	2.46	0.47
8:NI:255:PHE:HE2	8:NI:378:LEU:HD13	1.78	0.47
9:NJ:190:HIS:ND1	9:NJ:191:GLN:OE1	2.42	0.47
8:NK:97:GLU:OE2	8:NK:98:ASP:N	2.48	0.47
9:NL:151:LEU:H	9:NL:151:LEU:HD12	1.79	0.47
9:NL:237:THR:O	9:NL:241:ARG:HG3	2.14	0.47
8:NM:91:GLN:HG2	8:NM:121:ARG:HH12	1.79	0.47
8:NM:135:PHE:O	8:NM:167:LEU:N	2.48	0.47
8:NM:252:LEU:HA	8:NM:255:PHE:CE1	2.50	0.47
8:NM:396:ASP:CG	8:NM:422:ARG:HH12	2.23	0.47
9:NP:279:GLN:HA	9:NP:282:ARG:HG2	1.97	0.47
17:O9:159:GLU:HA	17:O9:162:TRP:HD1	1.79	0.47
8:OA:141:PHE:HB2	8:OA:173:PRO:HD3	1.97	0.47
8:OA:313:MET:HG3	8:OA:344:VAL:HG11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OB:3:GLU:HG2	9:OB:62:ARG:NH1	2.30	0.47
8:OC:224:TYR:HA	8:OC:227:LEU:HD13	1.96	0.47
8:OC:313:MET:HG3	8:OC:344:VAL:HG11	1.97	0.47
9:OD:267:MET:HE2	9:OD:303:CYS:SG	2.55	0.47
9:OJ:21:TRP:CE2	9:OJ:61:PRO:HB3	2.50	0.47
8:OK:202:PHE:HE1	8:OK:268:PRO:HB2	1.79	0.47
8:OM:254:GLU:O	8:OM:258:ASN:ND2	2.42	0.47
9:ON:252:LYS:HD3	8:OO:100:ALA:HA	1.97	0.47
9:OP:315:ALA:HB1	9:OP:317:PHE:HE2	1.78	0.47
27:P3:143:ALA:HB3	27:P3:146:VAL:HG12	1.96	0.47
27:P3:180:GLN:HE21	14:T5:340:LYS:HB2	1.80	0.47
27:P7:171:ARG:HH12	11:R5:23:LEU:HD12	1.79	0.47
8:PC:312:TYR:CE1	8:PC:315:CYS:SG	3.08	0.47
9:PD:236:VAL:HG12	9:PD:368:ILE:HD11	1.97	0.47
8:PG:224:TYR:HE2	50:PG:501:GTP:C5	2.33	0.47
8:PK:326:LYS:HD2	9:PL:220:PRO:HG2	1.95	0.47
9:PL:266:PHE:CE1	9:PL:370:ASN:HB2	2.49	0.47
9:PL:381:ILE:HG23	9:PL:384:GLN:HE21	1.80	0.47
8:PO:346:TRP:O	9:PP:388:MET:HB2	2.15	0.47
9:PP:268:PRO:HG2	9:PP:300:MET:HB2	1.96	0.47
28:Q1:190:ARG:HD2	28:Q1:191:PRO:HD2	1.97	0.47
28:Q2:141:ASP:OD2	28:Q2:153:ARG:NH1	2.47	0.47
8:QE:31:GLN:HG2	8:QE:35:GLN:H	1.80	0.47
8:QE:313:MET:SD	8:QE:380:ASN:HB3	2.54	0.47
9:QJ:181:GLU:HG2	9:QJ:182:PRO:HD3	1.97	0.47
9:QN:406:MET:HE3	9:QN:410:GLU:HB3	1.97	0.47
11:R0:118:THR:HG22	14:T5:409:ARG:NH2	2.30	0.47
11:R4:265:PHE:HB3	11:R4:391:MET:HE3	1.97	0.47
8:RC:12:ALA:O	8:RC:16:ILE:HG12	2.15	0.47
9:RH:165:ASN:HD21	9:RH:250:LEU:HD11	1.80	0.47
9:RH:406:MET:HE2	9:RH:406:MET:HA	1.96	0.47
9:RL:66:VAL:HG12	9:RL:91:VAL:HB	1.96	0.47
8:RM:138:PHE:HA	8:RM:169:PHE:O	2.14	0.47
8:RM:300:ASN:H	8:RM:300:ASN:HD22	1.62	0.47
12:S0:193:GLN:HA	12:S0:196:ARG:HG2	1.96	0.47
12:S2:283:TYR:HA	12:S3:394:LYS:CE	2.45	0.47
12:S6:191:PRO:O	12:S6:195:SER:OG	2.29	0.47
9:SB:7:LEU:N	9:SB:134:GLN:O	2.45	0.47
9:SD:293:MET:CE	9:SD:367:PHE:HB3	2.44	0.47
8:SG:35:GLN:C	8:SG:36:MET:HE2	2.40	0.47
8:SG:75:VAL:HG13	8:SG:92:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SH:346:PRO:HG3	8:SI:394:LYS:HD2	1.96	0.47
9:SJ:33:THR:HG22	9:SJ:58:LYS:HZ1	1.80	0.47
8:SK:88:HIS:HA	8:TK:283:HIS:CE1	2.50	0.47
14:T2:218:LYS:HE2	14:T2:218:LYS:HB2	1.58	0.47
8:TA:213:CYS:HA	8:TA:217:LEU:HD23	1.97	0.47
8:TC:149:PHE:CD2	8:TC:149:PHE:N	2.83	0.47
9:TF:237:THR:HG22	9:TF:250:LEU:HD21	1.97	0.47
9:TJ:269:GLY:HA2	9:TJ:300:MET:HE3	1.96	0.47
9:TL:344:TRP:H	9:TL:344:TRP:CD1	2.33	0.47
25:U:124:TYR:HD1	25:U:131:MET:HG2	1.80	0.47
30:U1:232:LEU:HD22	30:U1:324:LEU:HD13	1.97	0.47
30:U5:78:ILE:HG12	30:U6:195:LEU:HD13	1.95	0.47
30:U6:140:ARG:HA	30:V2:140:ARG:NH1	2.30	0.47
30:U7:184:VAL:HB	30:U7:226:GLN:HE21	1.79	0.47
8:UA:51:THR:HG21	8:UA:243:ARG:HG2	1.96	0.47
8:UA:326:LYS:HD3	9:UB:208:TYR:HB3	1.97	0.47
9:UD:205:GLU:HA	9:UD:208:TYR:CE1	2.50	0.47
8:UG:88:HIS:CD2	8:VG:283:HIS:HB3	2.50	0.47
8:UG:345:ASP:OD1	8:UG:345:ASP:N	2.46	0.47
9:UJ:257:MET:SD	9:UJ:314:ALA:HB2	2.55	0.47
8:UK:285:GLN:HE22	8:UK:287:SER:HB3	1.80	0.47
8:UM:239:THR:OG1	8:UM:243:ARG:NH1	2.48	0.47
30:V1:241:ARG:HA	30:V1:244:ARG:HB3	1.96	0.47
30:V3:104:ARG:HA	30:V3:107:GLU:HG2	1.96	0.47
30:V7:156:LEU:HB3	30:V7:250:LEU:HD11	1.97	0.47
30:V7:363:LYS:HE3	30:V7:363:LYS:HB3	1.71	0.47
30:V7:375:ILE:HG22	30:V7:379:GLU:OE2	2.15	0.47
30:V7:443:LEU:O	30:V7:447:THR:HG23	2.15	0.47
8:VE:274:PRO:HG2	8:VE:371:VAL:HG21	1.97	0.47
9:VF:269:GLY:N	9:VF:367:PHE:O	2.48	0.47
9:VF:379:LYS:C	9:VF:379:LYS:HD2	2.39	0.47
8:VG:2:ARG:HB3	8:VG:242:LEU:HD23	1.96	0.47
8:VG:251:ASP:HB3	8:VG:254:GLU:HG3	1.96	0.47
9:VL:167:PHE:CZ	9:VL:233:MET:HG3	2.50	0.47
9:VN:135:LEU:HG	9:VN:137:HIS:CE1	2.50	0.47
9:VN:196:THR:HG21	9:VN:199:THR:OG1	2.14	0.47
8:VO:20:CYS:HB3	8:VO:24:TYR:CZ	2.50	0.47
31:W:357:ASP:O	31:W:360:THR:OG1	2.31	0.47
30:W0:321:ALA:HB1	30:W0:325:PHE:CZ	2.50	0.47
30:W2:244:ARG:O	30:W2:247:GLN:HG2	2.15	0.47
30:W4:357:LEU:HD13	30:W4:458:LYS:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W5:332:MET:HE2	30:W5:482:LEU:HD13	1.97	0.47
30:W5:437:THR:O	30:W5:440:THR:OG1	2.27	0.47
8:WA:138:PHE:HZ	8:WA:235:VAL:HG21	1.79	0.47
9:WD:322:SER:O	8:WE:221:ARG:NH1	2.48	0.47
8:WE:206:ASN:HB3	8:WE:210:TYR:CZ	2.49	0.47
9:WF:323:MET:HE1	8:WG:223:THR:HA	1.97	0.47
8:WG:47:ASP:OD1	8:WG:47:ASP:N	2.45	0.47
9:WJ:153:SER:HA	9:WJ:195:ASN:HD21	1.79	0.47
9:WJ:213:ARG:HB2	9:WJ:297:LYS:NZ	2.30	0.47
8:WK:121:ARG:HH21	8:WK:124:LYS:HD2	1.79	0.47
8:WO:230:LEU:O	8:WO:234:ILE:HG12	2.15	0.47
8:WO:339:ARG:NE	8:WO:339:ARG:O	2.48	0.47
8:WO:345:ASP:N	8:WO:345:ASP:OD1	2.41	0.47
31:X:58:SER:OG	31:X:111:ASP:OD2	2.24	0.47
31:X:284:LEU:HD12	31:X:285:PRO:HD2	1.97	0.47
33:X4:319:THR:OG1	33:X4:320:GLY:N	2.47	0.47
34:X7:70:PRO:O	34:X7:151:LYS:NZ	2.42	0.47
31:Y:435:ARG:H	31:Y:529:THR:HG21	1.80	0.47
36:Y1:111:SER:O	36:Y1:114:TYR:N	2.47	0.47
31:Z:622:ARG:O	31:Z:626:LYS:HG2	2.14	0.47
40:a4:24:LEU:HD23	40:a4:25:SER:H	1.80	0.47
39:b:492:ASN:O	39:b:496:THR:HG23	2.14	0.47
41:b1:357:MET:HE1	41:b1:436:LEU:O	2.14	0.47
41:b1:399:ARG:HH22	41:b1:403:ARG:HE	1.63	0.47
41:b4:209:MET:HE2	41:b4:209:MET:HB2	1.59	0.47
42:f:146:ASP:OD1	42:f:147:ALA:N	2.48	0.47
42:f:167:SER:OG	42:f:217:ASP:OD2	2.23	0.47
44:h4:87:SER:O	44:h4:95:ARG:HD2	2.14	0.47
43:i:236:GLN:NE2	43:i:240:ASP:OD2	2.47	0.47
46:i2:1351:ASP:N	46:i2:1351:ASP:OD2	2.46	0.47
46:i3:1376:ARG:NH2	46:i3:1377:GLU:OE2	2.35	0.47
4:j1:197:PRO:HG2	4:j1:203:SER:HA	1.96	0.47
45:m:81:LEU:HA	45:m:84:ARG:HG3	1.97	0.47
47:p:181:GLU:O	47:p:185:LEU:HG	2.15	0.47
2:2:498:LYS:HE3	6:N1:97:TYR:CD1	2.49	0.47
4:5:303:PHE:HB2	4:5:388:TYR:HE2	1.80	0.47
4:6:130:GLU:HG2	4:6:274:GLY:HA3	1.98	0.47
4:6:295:LEU:H	4:6:295:LEU:HD23	1.80	0.47
7:A1:161:ILE:O	7:A1:165:ARG:HG2	2.15	0.47
7:A3:129:HIS:HD2	22:M3:57:LEU:HA	1.79	0.47
9:AB:111:GLU:OE1	9:AB:111:GLU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AB:344:TRP:H	9:AB:344:TRP:CD1	2.31	0.47
9:AL:379:LYS:O	9:AL:383:GLU:HG2	2.15	0.47
8:AO:254:GLU:N	8:AO:254:GLU:OE1	2.44	0.47
9:BD:56:GLY:O	17:I:314:ARG:NH1	2.48	0.47
8:BI:280:LYS:O	8:BI:284:GLU:HB3	2.14	0.47
9:BJ:19:LYS:HD2	9:BJ:22:GLU:OE1	2.15	0.47
9:BL:113:VAL:HA	9:BL:116:VAL:HB	1.96	0.47
9:BL:286:VAL:HG13	9:BL:287:PRO:HD3	1.96	0.47
8:BO:58:ALA:HA	31:Z:219:LEU:HD21	1.97	0.47
9:BP:5:VAL:HB	9:BP:133:PHE:CD1	2.50	0.47
9:BP:78:SER:HB2	31:Z:322:LYS:NZ	2.30	0.47
9:BP:112:LEU:O	9:BP:116:VAL:HG23	2.14	0.47
9:CL:165:ASN:OD1	9:CL:250:LEU:HD11	2.14	0.47
9:CN:271:ALA:HB1	9:CN:289:LEU:HD22	1.96	0.47
14:D1:221:VAL:HG13	14:D2:363:ARG:HG2	1.97	0.47
14:D2:154:ASP:CA	28:Q2:116:MET:HE1	2.45	0.47
8:DC:238:ILE:HD13	8:DC:378:LEU:HD11	1.96	0.47
9:DH:107:THR:OG1	9:DH:401:GLU:OE1	2.28	0.47
8:DK:324:VAL:HG12	8:DK:326:LYS:H	1.79	0.47
8:DM:386:GLU:OE2	8:DM:390:ARG:NH2	2.48	0.47
9:DP:268:PRO:C	9:DP:299:MET:HE1	2.40	0.47
9:EB:5:VAL:HG22	9:EB:62:ARG:HD2	1.97	0.47
9:EB:202:ILE:HG22	9:EB:300:MET:HG3	1.97	0.47
9:EB:344:TRP:CG	8:EC:401:LYS:HZ2	2.33	0.47
8:EE:116:ASP:N	8:EE:116:ASP:OD1	2.45	0.47
9:EJ:57:GLY:N	17:Z4:227:ARG:HH12	2.08	0.47
9:EJ:358:PRO:HG2	9:EJ:361:LEU:HB3	1.97	0.47
9:EL:372:THR:HA	9:EL:422:TYR:CE1	2.49	0.47
9:EL:379:LYS:HB2	9:EL:380:ARG:NH1	2.31	0.47
9:EL:379:LYS:HZ2	9:EL:419:VAL:HB	1.80	0.47
8:EO:90:GLU:HG2	8:EO:121:ARG:NH1	2.30	0.47
9:FB:41:ASP:OD2	9:FB:42:LEU:N	2.48	0.47
8:FC:277:SER:OG	8:FC:280:LYS:HG2	2.15	0.47
8:FK:118:VAL:O	8:FK:122:ILE:HG12	2.15	0.47
9:FL:117:LEU:HD11	9:FL:154:LYS:HG2	1.97	0.47
8:FM:88:HIS:CD2	8:FM:90:GLU:H	2.24	0.47
8:FM:364:PRO:HB3	31:Z:708:GLN:HA	1.96	0.47
8:GA:2:ARG:NH2	9:GB:69:GLU:HG2	2.30	0.47
8:GA:27:GLU:OE1	8:GA:243:ARG:NH1	2.48	0.47
9:GB:261:PRO:HG3	8:GC:406:HIS:CD2	2.50	0.47
8:GK:122:ILE:HD11	8:GK:135:PHE:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GM:46:ASP:OD1	26:P2:110:ILE:HD12	2.15	0.47
9:HB:122:LYS:NZ	36:Y0:54:ARG:HG3	2.29	0.47
8:HE:115:VAL:HG22	8:HE:152:LEU:HD13	1.95	0.47
8:HE:258:ASN:OD1	9:HF:179:VAL:HB	2.15	0.47
9:HF:64:VAL:HG21	9:HF:120:VAL:HG12	1.97	0.47
9:HF:344:TRP:H	9:HF:344:TRP:CD1	2.33	0.47
8:HI:258:ASN:ND2	8:HI:352:LYS:HG2	2.29	0.47
9:IB:222:TYR:HA	9:IB:225:LEU:HD23	1.97	0.47
9:IB:311:LEU:HD13	9:IB:342:VAL:HG11	1.97	0.47
9:IB:334:GLN:HE22	9:IB:347:ASN:HA	1.80	0.47
8:IC:112:LYS:HA	8:IC:115:VAL:HG23	1.96	0.47
8:IC:387:ALA:O	8:IC:390:ARG:HG2	2.15	0.47
9:ID:322:SER:O	8:IE:221:ARG:NH2	2.48	0.47
9:IF:372:THR:HA	9:IF:422:TYR:HE1	1.80	0.47
9:IH:324:LYS:HZ3	8:II:222:PRO:HD2	1.80	0.47
9:IL:372:THR:O	9:IL:375:GLN:NE2	2.36	0.47
8:IO:1:MET:HA	8:IO:1:MET:HE3	1.97	0.47
9:IP:274:THR:HG21	9:IP:282:ARG:NH1	2.29	0.47
8:JC:206:ASN:HB3	8:JC:210:TYR:CZ	2.50	0.47
8:JC:405:VAL:HG11	8:JC:415:GLU:HG3	1.97	0.47
9:JF:61:PRO:HD3	9:JF:84:ILE:HG22	1.97	0.47
9:JP:111:GLU:OE1	9:JP:111:GLU:N	2.38	0.47
9:JP:242:PHE:CD2	9:JP:356:ILE:HG21	2.50	0.47
8:JQ:31:GLN:HG2	8:JQ:32:PRO:HD2	1.98	0.47
8:KA:415:GLU:HG3	8:KA:418:PHE:HE2	1.79	0.47
9:KB:161:ASP:OD2	9:KB:162:ARG:NH2	2.47	0.47
8:KE:343:PHE:HE2	8:KE:350:GLY:HA3	1.79	0.47
9:KH:68:LEU:HB3	9:KH:96:GLY:HA2	1.95	0.47
8:KI:31:GLN:HG2	8:KI:35:GLN:O	2.15	0.47
9:KJ:63:ALA:O	9:KJ:89:ASN:ND2	2.48	0.47
8:KK:211:ASP:OD1	8:KK:214:ARG:NH2	2.47	0.47
9:KL:153:SER:HA	9:KL:195:ASN:HD22	1.80	0.47
8:KM:325:PRO:HB2	9:KN:208:TYR:OH	2.14	0.47
8:KO:141:PHE:HB2	8:KO:173:PRO:HD3	1.96	0.47
9:LD:245:GLN:O	8:LE:11:GLN:NE2	2.48	0.47
8:LG:76:ASP:HA	8:LG:79:ARG:HD2	1.97	0.47
9:LH:27:GLU:OE1	9:LH:241:ARG:NH2	2.48	0.47
9:LJ:172:SER:OG	9:LJ:205:GLU:HG2	2.14	0.47
22:M3:156:LEU:HD21	27:P5:81:LEU:HD11	1.97	0.47
8:MA:36:MET:HG2	8:MA:61:HIS:NE2	2.30	0.47
9:MB:10:GLY:O	9:MB:14:ASN:ND2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MD:344:TRP:H	9:MD:344:TRP:CD1	2.31	0.47
9:MF:379:LYS:O	9:MF:383:GLU:HG2	2.15	0.47
9:MJ:3:GLU:N	9:MJ:131:GLN:HE22	2.13	0.47
8:MK:166:LYS:N	8:MK:199:ASP:OD2	2.44	0.47
8:MK:262:TYR:OH	9:ML:391:ARG:O	2.26	0.47
8:MM:2:ARG:HB2	8:MM:242:LEU:HD23	1.96	0.47
8:MO:141:PHE:HB2	8:MO:173:PRO:HD3	1.97	0.47
9:MP:46:ARG:HE	9:MP:49:VAL:CG2	2.28	0.47
15:N2:94:CYS:HB2	15:N2:125:ARG:HG2	1.97	0.47
8:NA:377:MET:SD	8:NA:378:LEU:N	2.87	0.47
9:NB:403:MET:SD	9:NB:404:ASP:N	2.88	0.47
8:NC:324:VAL:HG12	8:NC:326:LYS:H	1.80	0.47
9:ND:292:GLN:O	9:ND:298:ASN:ND2	2.48	0.47
8:NE:53:PHE:HA	8:NE:62:VAL:O	2.14	0.47
8:NE:105:ARG:HH21	8:NE:110:ILE:HG13	1.80	0.47
9:NF:302:ALA:HB1	9:NF:380:ARG:HH22	1.79	0.47
8:NG:253:THR:O	8:NG:257:THR:OG1	2.31	0.47
8:NG:350:GLY:H	8:NG:351:PHE:HD1	1.63	0.47
8:NI:16:ILE:HA	8:NI:228:ASN:OD1	2.13	0.47
8:NM:137:ILE:HD11	8:NM:153:LEU:HD11	1.97	0.47
8:NM:326:LYS:HA	8:NM:329:ASN:OD1	2.15	0.47
9:NN:261:PRO:HG3	8:NO:406:HIS:CD2	2.50	0.47
8:NO:252:LEU:HA	8:NO:255:PHE:CE1	2.49	0.47
8:OC:33:ASP:OD1	8:OC:34:GLY:N	2.49	0.47
9:OD:170:VAL:HG11	9:OD:377:LEU:HD11	1.97	0.47
9:OF:299:MET:SD	9:OF:305:PRO:HD3	2.55	0.47
8:OG:53:PHE:HB3	8:OG:61:HIS:HB3	1.97	0.47
8:OK:172:TYR:HB2	8:OK:203:MET:HB2	1.97	0.47
9:OL:215:LEU:HD21	9:OL:273:LEU:HB3	1.97	0.47
9:ON:69:GLU:HG2	9:ON:71:GLY:H	1.79	0.47
8:PK:7:ILE:HB	8:PK:137:ILE:HG12	1.97	0.47
8:PK:151:SER:O	8:PK:155:GLU:HG2	2.15	0.47
8:PM:297:GLU:O	8:PM:301:GLN:NE2	2.42	0.47
9:PN:118:ASP:OD1	9:PN:121:ARG:NH2	2.38	0.47
9:PN:213:ARG:O	9:PN:216:LYS:NZ	2.43	0.47
9:PN:376:GLU:HG3	9:PN:379:LYS:NZ	2.30	0.47
9:QB:199:THR:N	9:QB:264:HIS:O	2.39	0.47
9:QD:87:PRO:HA	9:QD:90:PHE:HD1	1.80	0.47
8:QG:30:ILE:HD13	8:QG:36:MET:SD	2.55	0.47
8:QI:150:ALA:O	8:QI:154:MET:HG2	2.15	0.47
8:QI:203:MET:H	8:QI:203:MET:CE	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QK:25:CYS:O	8:QK:30:ILE:N	2.42	0.47
8:QK:169:PHE:HE2	8:QK:231:ILE:HG23	1.79	0.47
8:QO:12:ALA:O	8:QO:16:ILE:HD12	2.14	0.47
9:QP:134:GLN:OE1	9:QP:134:GLN:HA	2.14	0.47
11:R0:305:ARG:HH22	14:T5:362:HIS:CE1	2.33	0.47
8:RG:11:GLN:HA	8:RG:74:VAL:HG11	1.97	0.47
8:RG:209:ILE:HD12	8:RG:227:LEU:HD23	1.97	0.47
9:RJ:165:ASN:HB3	9:RJ:200:TYR:HE2	1.80	0.47
9:RL:326:VAL:O	9:RL:330:MET:HG3	2.14	0.47
8:RO:274:PRO:HD2	8:RO:274:PRO:O	2.15	0.47
12:S2:419:ARG:NH1	12:S2:422:ASN:OD1	2.48	0.47
9:SB:376:GLU:HG2	9:SB:380:ARG:HH12	1.80	0.47
8:SC:33:ASP:C	8:SC:60:LYS:HZ1	2.23	0.47
9:SD:132:GLY:HA2	9:SD:162:ARG:HB3	1.95	0.47
9:SD:156:ARG:NH1	9:SD:197:ASP:OD1	2.35	0.47
9:SD:257:MET:HE3	9:SD:259:PRO:HD3	1.95	0.47
8:SE:394:LYS:HA	8:SE:397:LEU:HG	1.95	0.47
14:T2:412:LEU:O	14:T2:416:ILE:HG23	2.15	0.47
14:T3:110:MET:HG2	14:T3:222:TYR:HD2	1.80	0.47
14:T5:366:VAL:C	14:T5:368:LEU:H	2.23	0.47
9:TB:271:ALA:O	9:TB:292:GLN:NE2	2.48	0.47
9:TD:272:PRO:HG3	9:TD:364:SER:HA	1.97	0.47
9:TF:164:MET:N	9:TF:197:ASP:OD2	2.47	0.47
8:TI:107:HIS:HA	8:TI:152:LEU:HD23	1.96	0.47
8:TM:260:VAL:HB	9:TN:397:TRP:HZ2	1.80	0.47
30:U0:170:MET:SD	30:U0:314:SER:HB3	2.54	0.47
30:U5:189:GLN:O	30:U5:193:GLU:HG2	2.15	0.47
8:UA:191:THR:HA	8:UA:194:THR:HG22	1.97	0.47
9:UB:322:SER:HB3	8:UC:221:ARG:HB3	1.96	0.47
8:UE:223:THR:OG1	8:UE:224:TYR:N	2.48	0.47
9:UF:63:ALA:HB3	9:UF:85:PHE:CE1	2.50	0.47
8:UG:324:VAL:HG12	8:UG:326:LYS:H	1.80	0.47
9:UH:327:ASP:O	9:UH:330:MET:HB3	2.15	0.47
8:UI:348:PRO:HD2	9:UJ:388:MET:HE1	1.96	0.47
9:UJ:237:THR:HG22	9:UJ:250:LEU:HD21	1.97	0.47
9:UN:344:TRP:CD1	9:UN:344:TRP:H	2.33	0.47
30:V2:393:GLN:O	30:V2:397:ALA:N	2.41	0.47
30:V3:149:LEU:HD11	30:V3:257:LYS:HB3	1.97	0.47
30:V3:248:HIS:O	30:V3:252:ARG:HG3	2.15	0.47
30:V3:274:SER:HB3	30:W0:481:ARG:HG2	1.97	0.47
30:V3:354:LYS:HE3	30:V3:458:LYS:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V5:265:GLU:O	30:V5:269:ASN:HB2	2.15	0.47
30:V6:198:ARG:HA	30:V6:201:ARG:NH2	2.30	0.47
8:VE:2:ARG:CZ	8:VE:242:LEU:HA	2.45	0.47
9:VF:69:GLU:HG2	9:VF:71:GLY:H	1.79	0.47
8:VI:324:VAL:O	8:VI:328:VAL:HG23	2.15	0.47
9:VL:65:LEU:HD12	9:VL:89:ASN:HD21	1.79	0.47
8:VM:234:ILE:HD11	8:VM:272:TYR:HB2	1.97	0.47
9:VN:395:LEU:O	9:VN:399:THR:OG1	2.30	0.47
8:VO:107:HIS:HA	8:VO:152:LEU:HD23	1.97	0.47
30:W0:373:ASN:HA	30:W0:376:MET:HG3	1.96	0.47
8:WA:116:ASP:OD2	8:WA:117:LEU:N	2.48	0.47
9:WB:403:MET:H	9:WB:403:MET:CE	2.28	0.47
9:WF:156:ARG:HG3	9:WF:195:ASN:HB2	1.97	0.47
8:WG:20:CYS:SG	8:WG:21:TRP:N	2.88	0.47
8:WG:324:VAL:HG12	8:WG:326:LYS:H	1.79	0.47
8:WI:223:THR:HG22	8:WI:225:THR:H	1.80	0.47
8:WK:111:GLY:O	8:WK:115:VAL:HG23	2.15	0.47
8:WK:209:ILE:HG21	8:WK:227:LEU:HG	1.97	0.47
35:XA:74:PRO:HD2	35:XA:169:ASP:HA	1.97	0.47
35:XC:69:LEU:HB3	35:XC:71:ILE:HD12	1.97	0.47
35:XH:170:ARG:HG2	35:XH:172:TYR:CE1	2.49	0.47
36:Y1:240:ILE:HG22	36:Y1:241:LYS:N	2.30	0.47
40:a4:31:SER:HB2	40:a4:32:GLU:H	1.56	0.47
41:b1:428:HIS:HA	41:b1:431:LYS:HZ3	1.80	0.47
39:c:339:MET:SD	39:c:340:VAL:N	2.88	0.47
42:e:40:ILE:HG12	42:e:49:ILE:HG23	1.97	0.47
42:e:167:SER:HB2	42:e:173:MET:HE3	1.96	0.47
42:e:358:VAL:HG12	42:e:367:LEU:HD12	1.97	0.47
42:g:526:ILE:HD11	42:g:562:THR:HG21	1.97	0.47
44:h1:90:TRP:O	44:h1:93:SER:OG	2.29	0.47
43:i:47:LYS:HD2	43:i:47:LYS:O	2.15	0.47
9:AB:40:SER:HB3	9:AB:43:GLN:HB2	1.97	0.46
9:AD:320:ARG:HH21	33:X4:172:PRO:HB2	1.80	0.46
9:AJ:135:LEU:HD23	9:AJ:166:THR:HG22	1.97	0.46
8:AM:220:GLU:N	8:AM:220:GLU:OE1	2.47	0.46
10:B:132:TYR:CE2	10:C:459:LEU:HD22	2.50	0.46
11:B2:303:ASP:O	11:B2:307:LYS:HG2	2.15	0.46
8:BE:132:LEU:HD22	8:BE:164:LYS:HG3	1.97	0.46
8:BK:223:THR:OG1	8:BK:224:TYR:N	2.47	0.46
8:BK:371:VAL:HG12	8:BK:373:ARG:H	1.80	0.46
8:BM:187:SER:HA	8:BM:190:THR:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BN:146:GLY:O	9:BN:149:THR:OG1	2.30	0.46
9:BN:170:VAL:HG11	9:BN:377:LEU:HD11	1.97	0.46
12:C5:391:ALA:O	12:C5:394:LYS:HB2	2.14	0.46
8:CE:154:MET:HA	8:CE:157:LEU:HB2	1.98	0.46
8:CE:200:CYS:HA	8:CE:266:HIS:HB2	1.97	0.46
9:CF:87:PRO:HD3	9:DF:281:TYR:CE2	2.50	0.46
9:CH:344:TRP:H	9:CH:344:TRP:CD1	2.32	0.46
9:CL:178:THR:HB	9:CL:181:GLU:HB2	1.97	0.46
9:CN:1:MET:CE	8:CO:72:PRO:HG3	2.45	0.46
8:CO:326:LYS:HE3	9:CP:220:PRO:HD2	1.96	0.46
8:CQ:79:ARG:NH1	40:a4:18:CYS:H	2.14	0.46
14:D0:84:LEU:HD22	14:D1:394:LYS:HD3	1.97	0.46
14:D1:33:THR:HG22	12:S2:93:ARG:HB3	1.96	0.46
14:D4:292:ASP:OD2	32:X3:195:TYR:OH	2.22	0.46
8:DC:7:ILE:HB	8:DC:137:ILE:HG13	1.97	0.46
8:DC:367:ASP:OD1	8:DC:367:ASP:N	2.49	0.46
9:DD:167:PHE:CZ	9:DD:233:MET:HG2	2.49	0.46
9:DF:219:THR:OG1	25:U:281:ARG:NH1	2.48	0.46
8:DG:130:THR:OG1	8:DG:131:GLY:N	2.49	0.46
9:DH:257:MET:HE2	9:DH:257:MET:HA	1.97	0.46
8:DI:311:LYS:HD2	8:DI:342:GLN:HB3	1.96	0.46
9:DJ:344:TRP:H	9:DJ:344:TRP:CD1	2.32	0.46
8:DO:191:THR:HA	8:DO:194:THR:HG22	1.96	0.46
8:EE:52:PHE:CE2	8:EE:243:ARG:HD3	2.50	0.46
8:EE:298:PRO:HA	8:EE:301:GLN:HG2	1.96	0.46
9:EF:1:MET:N	9:EF:128:ASP:OD1	2.47	0.46
8:EI:70:LEU:HB3	8:EI:98:ASP:HA	1.98	0.46
8:FA:330:ALA:O	8:FA:334:THR:HG22	2.15	0.46
9:FF:10:GLY:O	9:FF:14:ASN:ND2	2.48	0.46
8:FO:107:HIS:HA	8:FO:152:LEU:HD23	1.97	0.46
8:FO:311:LYS:H	8:FO:382:THR:HG22	1.80	0.46
9:GB:405:GLU:OE1	9:GB:405:GLU:N	2.46	0.46
8:GC:166:LYS:N	8:GC:199:ASP:OD2	2.48	0.46
9:GD:299:MET:SD	9:GD:299:MET:N	2.88	0.46
8:GE:244:PHE:CG	8:GE:358:GLN:HG3	2.50	0.46
8:GE:359:PRO:HB2	8:GE:370:LYS:NZ	2.30	0.46
8:GK:234:ILE:HD11	8:GK:272:TYR:HB2	1.97	0.46
8:GM:93:ILE:HD11	8:GM:121:ARG:HG2	1.97	0.46
8:GM:175:PRO:O	8:GM:394:LYS:NZ	2.48	0.46
8:GO:89:PRO:HB2	8:HO:280:LYS:HE3	1.98	0.46
8:HE:253:THR:HA	8:HE:256:GLN:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HK:154:MET:HB3	8:HK:197:HIS:HB3	1.96	0.46
9:HL:156:ARG:NH2	9:HL:196:THR:HA	2.30	0.46
9:HN:238:THR:HG21	9:HN:318:ARG:CD	2.45	0.46
17:I:214:GLN:NE2	17:I:224:PHE:O	2.48	0.46
8:IA:209:ILE:HD12	8:IA:227:LEU:HD23	1.97	0.46
8:IG:116:ASP:OD1	8:IG:116:ASP:N	2.47	0.46
8:IG:340:THR:OG1	36:Y1:179:THR:HG21	2.16	0.46
8:IK:107:HIS:HA	8:IK:152:LEU:HD23	1.97	0.46
8:IK:153:LEU:HA	8:IK:153:LEU:HD12	1.66	0.46
8:IM:431:ASP:O	8:IM:434:GLU:HG3	2.15	0.46
9:IN:317:PHE:HB3	9:IN:321:MET:HE1	1.97	0.46
19:J2:259:ARG:NH1	8:LG:440:VAL:H	2.13	0.46
8:JC:346:TRP:HB3	9:JD:390:ARG:NH1	2.30	0.46
9:JD:247:ASN:O	9:JD:252:LYS:NZ	2.47	0.46
8:JK:60:LYS:HZ3	8:KI:283:HIS:CG	2.34	0.46
9:JL:344:TRP:HD1	9:JL:345:ILE:HG13	1.81	0.46
8:JM:191:THR:HA	8:JM:194:THR:HG22	1.96	0.46
8:JM:415:GLU:OE2	8:JM:415:GLU:N	2.47	0.46
9:JP:381:ILE:HA	9:JP:384:GLN:HG2	1.96	0.46
8:JQ:11:GLN:O	8:JQ:15:GLN:HG2	2.15	0.46
8:KC:332:ILE:HD11	8:KC:353:VAL:HG21	1.97	0.46
8:KE:26:LEU:HD13	8:KE:363:VAL:HG12	1.95	0.46
9:KN:237:THR:HG22	9:KN:250:LEU:HD21	1.97	0.46
9:KN:322:SER:OG	8:KO:222:PRO:O	2.26	0.46
17:L:289:ILE:HG12	17:L:292:MET:SD	2.54	0.46
21:L1:76:ARG:NH2	39:a:234:ILE:HB	2.24	0.46
8:LA:68:VAL:HG12	8:LA:93:ILE:HB	1.97	0.46
8:LC:175:PRO:HD2	8:LC:207:GLU:OE1	2.16	0.46
9:LD:139:LEU:HA	9:LD:145:SER:HB2	1.96	0.46
9:LH:141:GLY:O	9:LH:145:SER:OG	2.32	0.46
9:LH:343:GLU:HG3	9:LH:430:ALA:HB2	1.97	0.46
9:LJ:51:TYR:HB3	9:LJ:59:TYR:HB3	1.97	0.46
9:LL:323:MET:H	9:LL:323:MET:HG2	1.40	0.46
8:LM:333:ALA:O	8:LM:337:THR:HG22	2.15	0.46
8:MA:259:LEU:HD21	8:MA:268:PRO:HB3	1.97	0.46
8:MA:388:TRP:HB3	8:MA:425:LEU:HD11	1.97	0.46
8:ME:6:SER:HB3	8:ME:8:HIS:CD2	2.51	0.46
8:MG:176:GLN:N	8:MG:176:GLN:OE1	2.48	0.46
8:MK:70:LEU:HB3	8:MK:98:ASP:HA	1.98	0.46
8:MK:186:ASN:O	8:MK:190:THR:HG22	2.14	0.46
9:ML:284:LEU:HD11	23:P:70:HIS:ND1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MO:85:GLN:OE1	8:MO:85:GLN:N	2.36	0.46
15:N2:200:PHE:CE2	15:N2:202:ASP:HB3	2.50	0.46
9:NB:42:LEU:HD23	9:NB:356:ILE:HD11	1.96	0.46
9:NB:60:VAL:HG21	9:NB:86:ARG:HH21	1.80	0.46
8:NE:288:VAL:HA	8:NE:291:ILE:HG12	1.97	0.46
9:NF:207:LEU:HD22	9:NF:228:LEU:HD23	1.97	0.46
8:NM:55:GLU:HA	8:NM:60:LYS:C	2.39	0.46
9:NN:42:LEU:HD21	9:NN:243:PRO:HD2	1.97	0.46
9:NP:166:THR:HG23	9:NP:199:THR:HG23	1.97	0.46
9:OD:20:PHE:HZ	9:OD:233:MET:HB2	1.80	0.46
9:OD:290:THR:HG21	9:OD:329:GLN:HG3	1.97	0.46
9:OD:336:LYS:H	9:OD:336:LYS:HG2	1.51	0.46
8:OE:130:THR:OG1	8:OE:131:GLY:N	2.48	0.46
9:OF:275:SER:OG	9:OF:278:SER:OG	2.22	0.46
9:OH:218:THR:OG1	9:OH:219:THR:N	2.48	0.46
8:OI:28:HIS:CE1	8:OI:49:PHE:HB3	2.50	0.46
27:P4:76:MET:SD	27:P4:88:PRO:HD3	2.54	0.46
8:PC:280:LYS:HA	8:PC:280:LYS:HD2	1.75	0.46
9:PD:5:VAL:O	9:PD:134:GLN:N	2.39	0.46
9:PD:142:GLY:N	52:PD:502:GDP:O3B	2.38	0.46
9:PD:325:GLU:O	9:PD:329:GLN:HG2	2.15	0.46
8:PG:20:CYS:SG	8:PG:21:TRP:N	2.89	0.46
9:PJ:31:ASP:OD1	9:PJ:35:THR:N	2.42	0.46
9:PJ:256:ASN:HD21	8:PK:181:VAL:H	1.63	0.46
8:PM:331:ALA:O	8:PM:335:ILE:HG12	2.16	0.46
9:PN:8:GLN:HE21	9:PN:14:ASN:HA	1.80	0.46
9:PN:330:MET:N	9:PN:330:MET:SD	2.88	0.46
23:Q:285:ILE:O	23:Q:289:GLN:HG2	2.15	0.46
28:Q1:195:ILE:HD12	12:S5:104:LEU:HD12	1.96	0.46
9:QB:379:LYS:HD2	9:QB:415:MET:HE1	1.95	0.46
9:QH:221:THR:O	9:QH:225:LEU:HG	2.15	0.46
9:QH:372:THR:HA	9:QH:422:TYR:CE1	2.45	0.46
8:QI:141:PHE:HD2	8:QI:172:TYR:HA	1.80	0.46
9:QJ:258:VAL:HB	8:QK:407:TRP:HZ2	1.80	0.46
8:QK:188:ILE:O	8:QK:191:THR:OG1	2.30	0.46
9:QL:198:GLU:HB3	9:QL:266:PHE:HE2	1.79	0.46
8:QO:321:GLY:HA3	8:QO:373:ARG:HA	1.96	0.46
8:RC:107:HIS:HA	8:RC:152:LEU:HD23	1.97	0.46
9:RD:274:THR:HB	9:RD:278:SER:HB2	1.97	0.46
9:RF:294:PHE:CE2	9:RF:333:VAL:HG21	2.49	0.46
8:RG:311:LYS:H	8:RG:382:THR:HG22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RI:311:LYS:HD3	8:RI:344:VAL:HG12	1.98	0.46
8:RM:300:ASN:HD22	8:RM:300:ASN:N	2.13	0.46
8:RO:169:PHE:HD1	8:RO:202:PHE:HB2	1.80	0.46
8:RO:263:PRO:HG3	9:RP:396:HIS:CD2	2.50	0.46
9:RP:165:ASN:HB3	9:RP:200:TYR:HE2	1.80	0.46
12:S1:284:PHE:HE2	12:S2:398:THR:HG22	1.80	0.46
12:S2:133:GLN:HE21	30:V6:154:SER:HB2	1.79	0.46
12:S4:214:GLU:HA	12:S4:217:LYS:HE2	1.96	0.46
12:S7:294:VAL:HG12	12:S8:411:LEU:HB3	1.97	0.46
12:S8:403:ARG:O	12:S8:406:ARG:NH1	2.48	0.46
9:SB:293:MET:HE2	9:SB:367:PHE:HB3	1.97	0.46
9:SB:403:MET:SD	9:SB:403:MET:N	2.78	0.46
8:SC:263:PRO:HG3	9:SD:396:HIS:CD2	2.50	0.46
8:SE:28:HIS:CE1	8:SE:243:ARG:HD2	2.50	0.46
8:SE:60:LYS:NZ	8:TE:283:HIS:HA	2.31	0.46
8:SE:289:ALA:O	8:SE:293:ASN:ND2	2.48	0.46
9:SH:130:LEU:H	9:SH:130:LEU:HD12	1.80	0.46
8:SI:124:LYS:NZ	8:TI:297:GLU:OE2	2.39	0.46
9:SL:202:ILE:HG22	9:SL:300:MET:HG3	1.98	0.46
9:SL:278:SER:HA	9:SL:282:ARG:HH22	1.80	0.46
8:SM:270:ALA:HB3	8:SM:302:MET:SD	2.55	0.46
9:SN:221:THR:N	9:SN:224:ASP:OD2	2.48	0.46
14:T1:67:ALA:O	14:T1:71:ARG:HG3	2.16	0.46
14:T2:250:SER:HA	14:T3:368:LEU:HD12	1.97	0.46
8:TC:138:PHE:HA	8:TC:169:PHE:O	2.14	0.46
9:TF:324:LYS:HZ2	8:TG:214:ARG:HB3	1.79	0.46
9:TH:150:LEU:HG	9:TH:154:LYS:HE2	1.97	0.46
8:TK:84:ARG:HH22	8:TK:89:PRO:HG3	1.80	0.46
9:TL:1:MET:HE1	9:TL:2:ARG:HE	1.80	0.46
9:TL:398:TYR:O	9:TL:403:MET:HE3	2.15	0.46
8:TM:276:ILE:HD11	8:TM:286:LEU:HD11	1.97	0.46
9:TN:150:LEU:HG	9:TN:154:LYS:HE2	1.97	0.46
25:U:345:TYR:CE1	25:U:369:VAL:HG12	2.50	0.46
30:U3:85:ALA:HB2	31:Y:573:HIS:NE2	2.30	0.46
30:U5:211:VAL:HG13	30:U5:343:PHE:CE1	2.50	0.46
30:U5:351:THR:HB	30:V0:333:TRP:HZ2	1.80	0.46
9:UD:267:MET:HB3	9:UD:299:MET:SD	2.55	0.46
9:UF:146:GLY:O	9:UF:149:THR:OG1	2.28	0.46
8:UI:360:PRO:O	8:UI:370:LYS:NZ	2.34	0.46
9:UL:274:THR:O	9:UL:279:GLN:NE2	2.48	0.46
8:UO:138:PHE:HA	8:UO:169:PHE:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UO:154:MET:SD	8:UO:193:THR:HG22	2.56	0.46
8:UO:214:ARG:O	8:UO:214:ARG:NE	2.47	0.46
30:V3:103:ILE:O	30:V3:107:GLU:HG2	2.15	0.46
9:VB:83:GLN:O	9:WB:281:TYR:OH	2.28	0.46
9:VB:323:MET:HE1	8:VC:223:THR:HA	1.96	0.46
8:VE:317:MET:HE3	8:VE:351:PHE:HD1	1.81	0.46
9:VF:198:GLU:HA	9:VF:264:HIS:HB2	1.95	0.46
8:VG:132:LEU:O	8:VG:164:LYS:NZ	2.38	0.46
8:VG:154:MET:HE3	8:VG:193:THR:HG22	1.97	0.46
8:VI:190:THR:O	8:VI:194:THR:HG23	2.15	0.46
9:VL:26:ASP:O	9:VL:359:ARG:NH1	2.48	0.46
9:VL:269:GLY:N	9:VL:367:PHE:O	2.48	0.46
9:VN:165:ASN:HB3	9:VN:200:TYR:CE2	2.49	0.46
31:W:140:PRO:HG2	31:W:141:PRO:HD3	1.98	0.46
31:W:627:PHE:HZ	31:W:667:LEU:HD12	1.79	0.46
8:WA:209:ILE:CD1	8:WA:227:LEU:HA	2.45	0.46
8:WE:254:GLU:HG2	9:WF:98:GLY:HA2	1.96	0.46
8:WI:103:TYR:HE2	8:WI:413:MET:HE1	1.80	0.46
9:WJ:100:ASN:HB3	9:WJ:103:LYS:HB2	1.96	0.46
9:WJ:287:PRO:HA	9:WJ:329:GLN:NE2	2.27	0.46
8:WM:83:TYR:HB3	8:WM:86:LEU:HB3	1.97	0.46
9:WP:128:ASP:OD1	9:WP:129:CYS:N	2.48	0.46
31:X:594:LEU:HD12	31:X:594:LEU:HA	1.70	0.46
35:XF:83:LEU:HD11	35:XF:161:ARG:HG3	1.96	0.46
35:XG:37:ILE:HD11	35:XG:161:ARG:NH2	2.31	0.46
36:Y1:179:THR:HB	36:Y1:183:ALA:HB2	1.97	0.46
31:Z:662:CYS:HB2	31:Z:667:LEU:HD22	1.97	0.46
39:a:114:TRP:CH2	43:j:196:VAL:HG23	2.50	0.46
40:a4:67:LYS:HD2	40:a4:68:PRO:HD2	1.97	0.46
41:b2:324:GLN:O	41:b2:328:ILE:HG12	2.15	0.46
41:b5:151:LEU:HD13	41:b5:231:ARG:HH21	1.80	0.46
42:e:538:ARG:NH1	42:e:574:TYR:O	2.49	0.46
42:f:91:ALA:N	42:f:110:HIS:O	2.46	0.46
46:i2:1356:GLY:HA3	46:i2:1397:CYS:SG	2.55	0.46
4:j1:295:LEU:H	4:j1:295:LEU:HD23	1.80	0.46
4:j1:313:GLU:O	4:j1:316:ASP:N	2.47	0.46
45:m:45:ASP:O	45:m:46:ARG:HG2	2.15	0.46
47:o:231:GLU:O	47:o:235:GLU:HG2	2.15	0.46
1:0:97:ALA:HA	1:0:100:LEU:HB3	1.97	0.46
2:2:438:ASP:N	2:2:438:ASP:OD1	2.48	0.46
4:6:159:HIS:CE1	30:V7:276:SER:H	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:8:33:TRP:O	5:8:37:ARG:HD3	2.15	0.46
7:A4:135:GLU:CD	7:A4:260:VAL:HA	2.40	0.46
7:A4:148:ASN:HA	22:M4:139:LEU:HD11	1.96	0.46
7:A5:78:ASP:OD2	7:A5:79:ASP:N	2.48	0.46
9:AB:255:VAL:HA	8:AC:407:TRP:CE2	2.50	0.46
9:AB:378:PHE:HB3	9:AB:415:MET:HE1	1.97	0.46
8:AC:11:GLN:HA	8:AC:74:VAL:HG11	1.98	0.46
8:AC:414:GLU:CD	8:AC:416:GLY:H	2.23	0.46
9:AF:316:VAL:HG12	9:AF:352:ALA:HB3	1.96	0.46
8:AM:430:LYS:O	8:AM:434:GLU:HG2	2.14	0.46
9:AN:306:ARG:HH12	37:YG:27:THR:HG23	1.79	0.46
9:AN:309:ARG:HG3	9:AN:426:GLN:HG3	1.97	0.46
8:AO:108:TYR:HA	8:AO:112:LYS:HE3	1.96	0.46
9:AP:146:GLY:O	9:AP:149:THR:OG1	2.33	0.46
10:B:80:LYS:NZ	9:IH:39:ASP:O	2.48	0.46
11:B1:80:LYS:NZ	11:B1:84:ASP:OD2	2.43	0.46
11:B4:106:LYS:HG3	11:B4:254:LEU:HD11	1.97	0.46
9:BB:5:VAL:HB	9:BB:133:PHE:HD2	1.79	0.46
8:BC:224:TYR:HE2	50:BC:501:GTP:C4	2.33	0.46
9:BD:73:MET:N	9:BD:73:MET:SD	2.88	0.46
8:BE:371:VAL:HG12	8:BE:373:ARG:H	1.80	0.46
8:BI:57:GLY:HA3	25:V:232:LEU:HD13	1.98	0.46
9:BL:211:CYS:O	9:BL:217:LEU:N	2.42	0.46
8:BM:88:HIS:CE1	8:BM:90:GLU:HB3	2.51	0.46
9:BN:7:LEU:HD21	9:BN:151:LEU:HD13	1.97	0.46
10:C:465:LYS:HA	10:C:465:LYS:HD3	1.64	0.46
12:C1:111:ASN:OD1	12:C1:114:ARG:NH2	2.48	0.46
12:C2:478:ASN:OD1	12:C2:479:SER:N	2.44	0.46
12:C4:296:VAL:HG22	12:C4:297:PRO:HD2	1.96	0.46
8:CC:7:ILE:O	8:CC:7:ILE:HG22	2.16	0.46
8:CC:223:THR:H	8:CC:226:ASN:ND2	2.12	0.46
9:CD:83:GLN:O	9:DD:281:TYR:OH	2.33	0.46
9:CD:198:GLU:HB2	9:CD:266:PHE:CE2	2.50	0.46
9:CJ:146:GLY:O	9:CJ:149:THR:OG1	2.32	0.46
8:CM:125:LEU:HD23	8:CM:125:LEU:HA	1.81	0.46
8:CM:210:TYR:HE1	8:CM:227:LEU:HD11	1.81	0.46
8:CM:221:ARG:HA	8:CM:221:ARG:HD2	1.53	0.46
14:D1:49:ALA:HB3	12:S2:88:THR:H	1.79	0.46
14:D2:136:LEU:O	14:D2:140:ARG:HG2	2.15	0.46
14:D3:238:VAL:HG23	14:D4:351:ARG:HE	1.80	0.46
9:DB:101:TRP:NE1	9:DB:145:SER:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DC:52:PHE:CZ	8:DC:239:THR:HG21	2.46	0.46
8:DI:130:THR:OG1	8:DI:131:GLY:N	2.48	0.46
9:DJ:267:MET:O	9:DJ:267:MET:HG3	2.14	0.46
8:DM:166:LYS:N	8:DM:199:ASP:OD2	2.40	0.46
8:EC:138:PHE:CD1	8:EC:169:PHE:HB2	2.50	0.46
8:EE:167:LEU:HD21	8:EE:255:PHE:HZ	1.80	0.46
9:EF:14:ASN:HD21	9:EF:67:ASP:HB2	1.79	0.46
9:EH:267:MET:HE3	9:EH:301:ALA:HB3	1.97	0.46
8:EK:311:LYS:H	8:EK:382:THR:HG22	1.81	0.46
8:EO:169:PHE:HA	8:EO:202:PHE:HB2	1.96	0.46
9:FB:136:THR:HG22	9:FB:167:PHE:HB2	1.98	0.46
9:FB:197:ASP:OD1	9:FB:197:ASP:N	2.47	0.46
9:FB:375:GLN:HB3	9:FB:422:TYR:CE1	2.50	0.46
9:FB:378:PHE:HB3	9:FB:415:MET:CE	2.34	0.46
9:FH:404:ASP:OD1	9:FH:404:ASP:N	2.47	0.46
8:FI:167:LEU:HD23	8:FI:202:PHE:HE2	1.80	0.46
9:FJ:322:SER:HB3	9:FJ:325:GLU:OE2	2.15	0.46
8:FK:124:LYS:NZ	8:GK:297:GLU:OE2	2.48	0.46
9:FL:138:SER:HA	9:FL:169:VAL:HB	1.96	0.46
9:FN:173:PRO:HG3	9:FN:380:ARG:HD2	1.98	0.46
8:FO:213:CYS:HA	8:FO:217:LEU:HD13	1.97	0.46
8:GI:276:ILE:HD11	8:GI:286:LEU:HD11	1.97	0.46
9:GL:337:ASN:HB3	9:GL:340:TYR:HD2	1.80	0.46
8:GM:84:ARG:HH21	26:P2:65:LEU:H	1.63	0.46
9:HB:26:ASP:HB3	9:HB:359:ARG:NH2	2.29	0.46
8:HC:188:ILE:O	8:HC:191:THR:OG1	2.32	0.46
9:HD:161:ASP:OD2	9:HD:162:ARG:NH1	2.47	0.46
9:HD:225:LEU:HD12	9:HD:225:LEU:H	1.80	0.46
9:HF:285:THR:HB	9:HF:287:PRO:HD2	1.97	0.46
9:HJ:202:ILE:HD11	9:HJ:207:LEU:HD11	1.98	0.46
9:HJ:211:CYS:HA	9:HJ:215:LEU:HB2	1.98	0.46
8:HK:56:THR:HG23	8:HK:58:ALA:H	1.81	0.46
8:HM:316:CYS:C	8:HM:317:MET:HE2	2.41	0.46
8:HO:121:ARG:HH11	8:HO:125:LEU:HD11	1.80	0.46
17:I:209:HIS:CE1	30:W4:142:LEU:HD13	2.50	0.46
18:I1:121:TRP:NE1	9:JN:358:PRO:HB2	2.29	0.46
9:IB:161:ASP:N	9:IB:161:ASP:OD1	2.48	0.46
9:IB:230:SER:HA	9:IB:233:MET:HE2	1.97	0.46
9:IB:336:LYS:NZ	36:Y0:53:PHE:HB3	2.30	0.46
8:IG:352:LYS:CE	9:IH:179:VAL:H	2.28	0.46
9:IJ:217:LEU:HD13	9:IJ:220:PRO:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IK:298:PRO:CG	36:Y1:106:TYR:CD2	2.99	0.46
8:JC:1:MET:SD	8:JC:2:ARG:NH1	2.89	0.46
8:JE:52:PHE:CZ	8:JE:239:THR:HG21	2.50	0.46
9:JJ:380:ARG:HH22	9:JJ:381:ILE:HG12	1.79	0.46
8:JK:2:ARG:HH22	9:JL:71:GLY:N	2.13	0.46
8:JM:105:ARG:O	8:JM:110:ILE:HG12	2.16	0.46
8:JO:90:GLU:HG3	8:JO:121:ARG:HE	1.80	0.46
9:KB:259:PRO:HG2	9:KB:263:LEU:HD12	1.96	0.46
8:KE:408:TYR:HB3	8:KE:413:MET:CG	2.45	0.46
9:KJ:170:VAL:HG11	9:KJ:377:LEU:HD11	1.97	0.46
9:KJ:262:ARG:NH2	9:KJ:418:LEU:HA	2.29	0.46
8:KK:215:ARG:NH2	8:KK:299:ALA:O	2.48	0.46
8:KM:6:SER:HB3	8:KM:8:HIS:CD2	2.49	0.46
9:KN:153:SER:HB3	9:KN:191:GLN:HE21	1.79	0.46
8:KO:313:MET:N	8:KO:313:MET:SD	2.88	0.46
9:KP:157:GLU:N	9:KP:157:GLU:OE1	2.48	0.46
21:L1:172:LYS:HA	21:L1:172:LYS:HD3	1.72	0.46
9:LB:31:ASP:OD1	9:LB:35:THR:N	2.48	0.46
8:LC:205:ASP:OD1	8:LC:205:ASP:N	2.44	0.46
8:LE:105:ARG:HA	8:LE:109:THR:HG22	1.97	0.46
8:LG:70:LEU:HB2	8:LG:145:THR:HG21	1.97	0.46
9:LH:162:ARG:HH12	9:LH:251:ARG:HH22	1.63	0.46
9:LH:378:PHE:HB3	9:LH:415:MET:HE2	1.96	0.46
8:LM:204:VAL:HG12	8:LM:302:MET:CE	2.45	0.46
22:M1:120:GLN:HG3	22:M1:137:PHE:CG	2.50	0.46
9:MD:257:MET:HE1	9:MD:314:ALA:N	2.30	0.46
9:MF:31:ASP:OD1	9:MF:35:THR:N	2.48	0.46
8:MI:104:ALA:HB1	8:MI:411:GLU:OE2	2.15	0.46
8:MO:336:LYS:O	45:i1:26:ARG:HD2	2.15	0.46
9:NH:308:GLY:HA3	9:NH:372:THR:HB	1.97	0.46
9:NJ:267:MET:HE2	9:NJ:303:CYS:SG	2.56	0.46
9:NL:4:ILE:HB	9:NL:50:TYR:CE1	2.50	0.46
9:NL:337:ASN:HB3	9:NL:340:TYR:HD2	1.80	0.46
9:NL:359:ARG:H	9:NL:359:ARG:HG2	1.55	0.46
8:NM:53:PHE:HD1	8:NM:61:HIS:O	1.95	0.46
8:NM:244:PHE:CG	8:NM:358:GLN:HG2	2.50	0.46
8:NO:4:CYS:HB3	8:NO:136:LEU:HD13	1.97	0.46
8:NO:332:ILE:HD12	8:NO:351:PHE:CD2	2.50	0.46
9:NP:285:THR:H	9:NP:288:GLU:HB2	1.80	0.46
25:O5:250:ASP:HA	40:a4:159:ARG:NH2	2.31	0.46
17:O7:292:MET:HA	17:O7:292:MET:HE3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OB:371:SER:O	9:OB:422:TYR:OH	2.29	0.46
8:OC:88:HIS:CD2	8:PC:284:GLU:HG2	2.50	0.46
8:OC:255:PHE:O	8:OC:259:LEU:HG	2.15	0.46
8:OE:328:VAL:O	8:OE:332:ILE:HG12	2.15	0.46
9:OF:256:ASN:HD21	8:OG:181:VAL:H	1.63	0.46
8:OI:107:HIS:HA	8:OI:152:LEU:HD23	1.98	0.46
8:OI:220:GLU:HG2	8:OI:221:ARG:HG2	1.96	0.46
9:OJ:371:SER:OG	9:OJ:372:THR:N	2.47	0.46
9:ON:245:GLN:HB3	8:OO:224:TYR:CE2	2.50	0.46
8:OO:370:LYS:HE2	8:OO:370:LYS:HB2	1.78	0.46
9:OP:1:MET:SD	9:OP:2:ARG:N	2.80	0.46
9:OP:313:VAL:HG12	9:OP:349:VAL:HG13	1.96	0.46
9:OP:313:VAL:HB	9:OP:349:VAL:HG22	1.96	0.46
9:PB:146:GLY:O	9:PB:149:THR:OG1	2.29	0.46
8:PC:260:VAL:O	9:PD:397:TRP:NE1	2.33	0.46
9:PF:216:LYS:HA	9:PF:216:LYS:HD2	1.82	0.46
9:PF:321:MET:HG3	9:PF:322:SER:O	2.15	0.46
8:PG:11:GLN:HG3	8:PG:74:VAL:HG11	1.96	0.46
8:PG:23:LEU:HD12	8:PG:26:LEU:HD11	1.97	0.46
8:PG:260:VAL:O	9:PH:397:TRP:NE1	2.39	0.46
8:PI:202:PHE:CZ	8:PI:378:LEU:HD13	2.50	0.46
9:PN:1:MET:HE2	9:PN:1:MET:HA	1.97	0.46
9:PN:170:VAL:HG11	9:PN:377:LEU:HD21	1.97	0.46
9:PN:330:MET:HA	9:PN:333:VAL:HG12	1.97	0.46
8:PO:394:LYS:O	8:PO:398:MET:HG3	2.16	0.46
28:Q2:123:ILE:HG12	12:S7:425:TYR:CD2	2.50	0.46
28:Q5:52:THR:HB	28:Q5:53:PRO:CD	2.45	0.46
8:QC:288:VAL:O	8:QC:292:THR:HG22	2.15	0.46
8:QI:60:LYS:HE2	8:RI:283:HIS:HA	1.96	0.46
9:QL:183:TYR:O	9:QL:187:LEU:HD12	2.15	0.46
8:QM:155:GLU:HA	8:QM:197:HIS:CD2	2.49	0.46
11:R1:246:ALA:HA	11:R1:249:GLN:HB2	1.97	0.46
11:R1:272:MET:HB3	11:R1:384:LEU:HD21	1.97	0.46
11:R4:413:ARG:NH1	11:R4:413:ARG:CG	2.71	0.46
9:RD:256:ASN:HD22	8:RE:182:VAL:HG22	1.80	0.46
9:RD:258:VAL:HB	8:RE:407:TRP:HZ2	1.79	0.46
9:RJ:54:ALA:HA	9:SH:283:ALA:HB2	1.97	0.46
9:RL:183:TYR:HE2	9:RL:394:PHE:HB2	1.80	0.46
12:S0:484:LEU:HD23	30:V9:358:GLN:OE1	2.14	0.46
12:S3:204:LYS:HZ3	12:S6:255:GLU:C	2.24	0.46
12:S4:357:ALA:C	12:S4:462:LYS:HZ1	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S8:117:SER:HA	12:S9:444:THR:HG21	1.97	0.46
9:SD:149:THR:HB	9:SD:191:GLN:HG2	1.98	0.46
9:SF:7:LEU:N	9:SF:134:GLN:O	2.48	0.46
9:SF:114:ASP:N	9:SF:114:ASP:OD1	2.48	0.46
8:SG:151:SER:HA	8:SG:193:THR:HG21	1.96	0.46
9:SJ:276:ARG:HD3	9:SJ:279:GLN:HG3	1.96	0.46
8:SM:6:SER:HB2	8:SM:65:ALA:HA	1.96	0.46
8:TA:150:ALA:HB1	8:TA:154:MET:HE2	1.97	0.46
9:TJ:237:THR:HG22	9:TJ:250:LEU:HD21	1.97	0.46
9:TL:41:ASP:OD2	9:TL:42:LEU:N	2.48	0.46
8:TM:88:HIS:HD1	8:TM:90:GLU:HB3	1.79	0.46
8:TM:166:LYS:N	8:TM:199:ASP:OD2	2.39	0.46
30:U1:335:GLN:O	30:U1:339:THR:OG1	2.31	0.46
30:U2:405:VAL:HG13	30:U3:296:TRP:HD1	1.80	0.46
9:UB:271:ALA:O	9:UB:273:LEU:N	2.47	0.46
9:UH:31:ASP:OD1	9:UH:35:THR:N	2.49	0.46
9:UJ:146:GLY:O	9:UJ:149:THR:OG1	2.33	0.46
9:UL:375:GLN:HA	9:UL:378:PHE:CD2	2.50	0.46
9:UL:406:MET:SD	9:UL:406:MET:N	2.87	0.46
8:UM:32:PRO:HD2	8:UM:33:ASP:N	2.30	0.46
8:UM:191:THR:HA	8:UM:194:THR:HG22	1.96	0.46
9:VB:54:ALA:HB3	9:VB:58:LYS:HB3	1.97	0.46
9:VD:325:GLU:HB3	8:VE:221:ARG:CZ	2.45	0.46
9:VD:371:SER:O	9:VD:422:TYR:OH	2.31	0.46
8:VE:86:LEU:O	8:WE:283:HIS:HE1	1.97	0.46
9:VH:289:LEU:HG	9:VH:363:MET:HE3	1.97	0.46
9:VJ:252:LYS:HG2	8:VK:100:ALA:HA	1.97	0.46
9:VN:142:GLY:N	52:VN:502:GDP:O3B	2.36	0.46
9:VN:253:LEU:O	9:VN:257:MET:HG2	2.16	0.46
8:VO:239:THR:OG1	8:VO:243:ARG:NH1	2.49	0.46
31:W:542:TYR:HB3	31:W:597:GLN:HE21	1.80	0.46
30:W0:385:LYS:O	30:W0:388:PRO:HD3	2.15	0.46
30:W4:359:THR:O	30:W4:363:LYS:NZ	2.49	0.46
30:W6:433:ARG:NH2	31:Y:561:GLU:OE2	2.47	0.46
30:W7:257:LYS:HE3	30:W7:257:LYS:HB2	1.68	0.46
8:WC:79:ARG:NH2	8:WC:92:LEU:O	2.48	0.46
9:WD:49:VAL:HG11	9:WD:241:ARG:HG2	1.98	0.46
8:WE:107:HIS:HA	8:WE:152:LEU:HD23	1.97	0.46
9:WF:326:VAL:O	9:WF:330:MET:HG2	2.14	0.46
8:WK:118:VAL:HG21	8:WK:149:PHE:HZ	1.81	0.46
9:WN:8:GLN:HE21	9:WN:14:ASN:HA	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WN:31:ASP:HB3	9:WN:37:HIS:CE1	2.50	0.46
36:Y4:89:ILE:HD12	36:Y4:89:ILE:HG23	1.68	0.46
36:Y5:246:MET:HE2	36:Y5:246:MET:HA	1.97	0.46
37:YC:185:LYS:HA	37:YC:209:ILE:HD12	1.96	0.46
37:YE:175:ARG:HD2	37:YE:175:ARG:C	2.41	0.46
39:a:191:LEU:HD11	39:b:517:ILE:HD11	1.97	0.46
39:b:304:ARG:O	39:b:307:GLU:HG2	2.15	0.46
41:b4:182:ARG:HH21	41:b4:336:LEU:HD22	1.80	0.46
42:f:369:ARG:HD2	48:r:129:HIS:CE1	2.49	0.46
42:g:337:ASP:OD1	42:g:338:ILE:N	2.48	0.46
42:g:341:PRO:HA	42:g:382:PHE:HD2	1.80	0.46
46:i3:1378:GLU:O	46:i3:1382:LEU:HG	2.15	0.46
47:p:156:SER:HA	47:p:159:MET:HG3	1.96	0.46
2:1:581:GLN:HA	8:JG:370:LYS:HE3	1.96	0.46
3:3:397:ARG:NE	8:GC:370:LYS:O	2.40	0.46
3:4:466:LYS:HE2	3:4:466:LYS:HB3	1.83	0.46
5:8:51:ILE:HD11	9:JH:320:ARG:HG3	1.98	0.46
5:8:80:PRO:O	5:8:84:LEU:HD23	2.16	0.46
6:A:35:TRP:O	6:A:39:LEU:HB2	2.16	0.46
7:A2:194:ASN:HD22	12:C1:168:ILE:HG12	1.79	0.46
9:AB:5:VAL:HB	9:AB:133:PHE:CD1	2.49	0.46
9:AD:100:ASN:HB3	9:AD:103:LYS:HB2	1.96	0.46
9:AF:163:ILE:HG12	9:AF:250:LEU:CD1	2.45	0.46
8:AG:104:ALA:HB1	8:AG:411:GLU:HB3	1.98	0.46
8:AG:345:ASP:OD1	8:AG:345:ASP:N	2.48	0.46
8:AI:386:GLU:OE2	48:r:82:HIS:NE2	2.46	0.46
9:AJ:68:LEU:HD12	9:AJ:97:ALA:HB2	1.97	0.46
8:AK:241:SER:OG	8:AK:250:VAL:O	2.20	0.46
9:AL:203:ASP:OD2	9:AL:302:ALA:HB2	2.15	0.46
8:AO:186:ASN:OD1	8:AO:408:TYR:OH	2.32	0.46
11:B5:396:LYS:HG3	11:B5:404:PHE:CE2	2.51	0.46
9:BB:230:SER:O	9:BB:233:MET:HB2	2.15	0.46
8:BC:313:MET:HE3	8:BC:382:THR:HB	1.98	0.46
8:BE:164:LYS:HA	8:BE:164:LYS:HE2	1.96	0.46
9:BF:70:PRO:HB2	22:M2:192:ARG:HH21	1.81	0.46
9:BJ:271:ALA:O	9:BJ:273:LEU:N	2.45	0.46
8:BM:271:THR:HA	8:BM:302:MET:HE1	1.96	0.46
9:BN:56:GLY:HA2	17:N:314:ARG:HH22	1.79	0.46
9:BP:226:ASN:O	9:BP:230:SER:N	2.44	0.46
10:C:401:GLN:O	10:C:405:LYS:HG2	2.15	0.46
12:C0:121:ARG:NH2	12:C1:371:GLU:OE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C0:287:VAL:HA	12:C0:290:VAL:HB	1.97	0.46
12:C1:212:HIS:ND1	12:C1:216:GLU:OE1	2.48	0.46
12:C1:214:GLU:OE2	12:C1:217:LYS:HE2	2.16	0.46
9:CB:313:VAL:HG13	9:CB:367:PHE:HE1	1.80	0.46
8:CI:41:THR:HG22	8:CI:41:THR:O	2.15	0.46
8:CI:265:ILE:HG23	8:CI:432:TYR:CZ	2.50	0.46
9:CL:117:LEU:HA	9:CL:120:VAL:HG12	1.98	0.46
8:CO:47:ASP:N	8:CO:47:ASP:OD1	2.47	0.46
14:D0:98:ASP:OD2	14:D1:376:ARG:NE	2.49	0.46
14:D4:162:ARG:HH12	14:D4:168:VAL:H	1.63	0.46
8:DC:98:ASP:OD1	8:DC:98:ASP:N	2.38	0.46
8:DC:195:LEU:HD13	8:DC:428:LEU:HD11	1.96	0.46
8:DE:241:SER:HB3	8:DE:250:VAL:H	1.80	0.46
9:DF:39:ASP:N	9:DF:39:ASP:OD1	2.45	0.46
8:DI:72:PRO:HA	8:DI:94:THR:HG21	1.98	0.46
8:DI:123:ARG:NH2	8:DI:160:ASP:OD2	2.49	0.46
8:DI:381:THR:OG1	8:DI:382:THR:N	2.44	0.46
8:DO:85:GLN:HB2	17:N:59:MET:HE1	1.98	0.46
9:EH:112:LEU:HB3	9:EH:147:MET:HE1	1.96	0.46
8:EO:36:MET:HE3	8:EO:37:PRO:HD3	1.96	0.46
15:F:206:ARG:NH2	15:F:261:GLU:OE2	2.36	0.46
8:FE:52:PHE:CE2	8:FE:243:ARG:HD3	2.49	0.46
8:FG:83:TYR:HB3	8:FG:86:LEU:HD23	1.97	0.46
9:FJ:11:GLN:HB2	9:FJ:72:THR:HG21	1.97	0.46
8:FM:126:ALA:HA	8:FM:132:LEU:HD21	1.97	0.46
8:FM:263:PRO:HG3	9:FN:396:HIS:CD2	2.50	0.46
9:GB:77:ARG:HH21	9:GB:83:GLN:HE22	1.63	0.46
9:GB:262:ARG:HE	9:GB:418:LEU:HD13	1.81	0.46
8:GI:241:SER:HB3	8:GI:250:VAL:H	1.79	0.46
9:GL:25:SER:HB3	9:GL:30:ILE:HB	1.97	0.46
8:HC:74:VAL:C	8:HC:76:ASP:N	2.72	0.46
8:HC:151:SER:HA	8:HC:193:THR:HG21	1.98	0.46
8:HE:93:ILE:HD13	8:HE:117:LEU:HD22	1.97	0.46
9:HJ:362:LYS:HG3	9:HJ:363:MET:N	2.29	0.46
8:HM:285:GLN:OE1	8:HM:285:GLN:HA	2.13	0.46
9:IB:8:GLN:HE21	9:IB:14:ASN:HA	1.80	0.46
8:IC:252:LEU:HA	8:IC:255:PHE:CE2	2.50	0.46
8:IC:325:PRO:HG2	9:ID:222:TYR:HD2	1.81	0.46
8:IE:41:THR:HG23	8:IE:42:ILE:H	1.80	0.46
9:IF:271:ALA:HB2	9:IF:293:MET:HE2	1.98	0.46
9:IJ:282:ARG:HH22	9:IJ:284:LEU:HD13	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IP:268:PRO:HG2	9:IP:300:MET:HB2	1.96	0.46
8:JC:250:VAL:HG13	8:JC:254:GLU:HB2	1.97	0.46
8:JE:317:MET:HB3	8:JE:353:VAL:HA	1.96	0.46
9:JJ:268:PRO:O	9:JJ:299:MET:HE1	2.15	0.46
9:JJ:354:CYS:SG	9:JJ:355:ASP:N	2.88	0.46
8:JK:27:GLU:OE2	8:JK:243:ARG:NE	2.48	0.46
9:JL:309:ARG:NH2	9:JL:339:SER:O	2.49	0.46
8:JM:107:HIS:HA	8:JM:152:LEU:HD23	1.95	0.46
8:JO:14:VAL:HG12	8:JO:67:PHE:HB3	1.96	0.46
9:KB:299:MET:HE1	9:KB:367:PHE:CE2	2.50	0.46
8:KC:414:GLU:CD	8:KC:416:GLY:H	2.22	0.46
9:KD:62:ARG:NH1	9:KD:127:CYS:SG	2.88	0.46
9:KD:275:SER:N	9:KD:278:SER:OG	2.48	0.46
9:KF:153:SER:HA	9:KF:195:ASN:HD22	1.81	0.46
8:KI:108:TYR:CZ	41:b3:366:LYS:HE2	2.51	0.46
9:KJ:404:ASP:OD2	41:b4:131:ARG:NH2	2.49	0.46
8:KK:51:THR:HG21	8:KK:243:ARG:HG2	1.97	0.46
9:KL:344:TRP:H	9:KL:344:TRP:CD1	2.33	0.46
9:KN:12:CYS:O	9:KN:16:ILE:HG12	2.15	0.46
8:KO:21:TRP:CZ2	8:KO:65:ALA:HB2	2.50	0.46
9:KP:36:TYR:CE2	9:KP:44:LEU:HD13	2.50	0.46
8:LC:326:LYS:HD2	9:LD:220:PRO:HD2	1.96	0.46
9:LD:257:MET:SD	9:LD:312:THR:OG1	2.66	0.46
8:LE:66:VAL:HG12	8:LE:68:VAL:HG13	1.97	0.46
9:LF:343:GLU:HG3	9:LF:430:ALA:HB2	1.97	0.46
9:LH:63:ALA:O	9:LH:89:ASN:ND2	2.48	0.46
9:LJ:376:GLU:HA	9:LJ:379:LYS:CE	2.46	0.46
9:LL:395:LEU:HB3	45:n:82:THR:HG21	1.97	0.46
8:LM:175:PRO:O	8:LM:394:LYS:NZ	2.39	0.46
8:LO:207:GLU:HA	8:LO:210:TYR:CD2	2.50	0.46
22:M4:190:GLN:HA	22:M4:197:GLU:OE2	2.15	0.46
9:MB:299:MET:HE1	9:MB:367:PHE:HE2	1.80	0.46
9:MF:248:ALA:HA	9:MF:252:LYS:HD3	1.96	0.46
8:MK:90:GLU:HG2	8:MK:121:ARG:HD3	1.96	0.46
9:ML:385:PHE:HZ	9:ML:408:PHE:HB3	1.81	0.46
9:MP:219:THR:O	9:MP:219:THR:OG1	2.23	0.46
9:MP:244:GLY:HA2	9:MP:355:ASP:CG	2.39	0.46
8:NC:103:TYR:HB3	8:NC:408:TYR:HE2	1.80	0.46
8:NE:23:LEU:HD21	8:NE:236:SER:HB2	1.97	0.46
8:NE:147:SER:OG	8:NE:190:THR:OG1	2.21	0.46
8:NE:332:ILE:O	8:NE:336:LYS:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NF:271:ALA:O	9:NF:273:LEU:N	2.46	0.46
8:NG:90:GLU:CD	8:OG:280:LYS:HZ1	2.23	0.46
8:NK:227:LEU:O	8:NK:231:ILE:HG13	2.15	0.46
8:NM:56:THR:HG23	8:NM:58:ALA:HB3	1.98	0.46
8:NM:260:VAL:HB	9:NN:397:TRP:HZ2	1.80	0.46
8:NO:287:SER:N	8:NO:290:GLU:OE1	2.36	0.46
25:O5:316:SER:OG	25:O5:319:GLU:OE1	2.28	0.46
25:O5:391:GLU:OE1	25:O5:391:GLU:N	2.41	0.46
17:O8:43:LEU:HD12	27:P3:146:VAL:HG13	1.97	0.46
17:O8:54:SER:HB2	27:P3:157:LEU:HA	1.97	0.46
17:O8:85:TYR:HE2	11:R1:219:ASP:HB3	1.80	0.46
9:OB:130:LEU:O	9:OB:162:ARG:NH1	2.44	0.46
8:OC:165:SER:HB3	8:OC:256:GLN:HE22	1.80	0.46
9:OJ:334:GLN:NE2	9:OJ:348:ASN:H	2.13	0.46
8:OK:182:VAL:O	8:OK:186:ASN:ND2	2.49	0.46
9:ON:250:LEU:O	9:ON:253:LEU:HD12	2.15	0.46
23:P:22:ARG:HB3	23:P:26:ARG:HH21	1.80	0.46
9:PB:73:MET:HE1	9:PB:92:PHE:CG	2.50	0.46
8:PC:386:GLU:OE1	8:PC:386:GLU:N	2.49	0.46
9:PD:226:ASN:O	9:PD:230:SER:OG	2.32	0.46
9:PF:261:PRO:HG3	8:PG:406:HIS:CD2	2.51	0.46
9:PH:245:GLN:NE2	9:PH:323:MET:HG3	2.30	0.46
9:PJ:234:SER:O	9:PJ:238:THR:OG1	2.32	0.46
8:PK:297:GLU:O	8:PK:301:GLN:NE2	2.39	0.46
9:PL:381:ILE:HA	9:PL:384:GLN:HG2	1.97	0.46
8:PM:367:ASP:OD1	8:PM:367:ASP:N	2.48	0.46
9:PN:228:LEU:HB3	9:PN:300:MET:CE	2.46	0.46
8:PO:64:ARG:HG2	8:PO:125:LEU:HD11	1.96	0.46
9:QB:156:ARG:NH1	9:QB:164:MET:SD	2.89	0.46
9:QD:207:LEU:CD2	9:QD:225:LEU:HG	2.46	0.46
9:QD:231:ALA:HB1	9:QD:270:PHE:CE2	2.50	0.46
8:QE:141:PHE:HD2	8:QE:172:TYR:HA	1.80	0.46
8:QG:63:PRO:O	8:QG:91:GLN:NE2	2.38	0.46
9:QH:325:GLU:HB2	8:QI:221:ARG:NH1	2.31	0.46
8:QI:177:VAL:CG1	8:QI:207:GLU:HB2	2.45	0.46
8:QI:358:GLN:NE2	8:QI:359:PRO:O	2.47	0.46
9:QL:50:TYR:CE2	9:QL:241:ARG:HD3	2.50	0.46
9:QP:407:GLU:HA	9:QP:410:GLU:HG2	1.96	0.46
11:R1:324:ARG:NH2	11:R1:330:CYS:O	2.48	0.46
9:RD:285:THR:HB	9:RD:287:PRO:HD2	1.96	0.46
9:RF:261:PRO:HG3	8:RG:406:HIS:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RF:267:MET:HG3	9:RF:301:ALA:HB3	1.97	0.46
9:RJ:260:PHE:HB3	9:RJ:262:ARG:HH21	1.79	0.46
8:RM:225:THR:O	8:RM:229:ARG:HG3	2.16	0.46
12:S4:336:MET:HG2	12:S4:480:TYR:OH	2.16	0.46
12:S6:452:LYS:NZ	12:S6:456:GLU:OE2	2.47	0.46
12:S8:114:ARG:HH12	12:S9:368:THR:N	2.13	0.46
9:SB:279:GLN:HA	9:SB:282:ARG:HH12	1.80	0.46
9:SD:323:MET:O	8:SE:210:TYR:OH	2.32	0.46
8:SE:60:LYS:HZ3	8:TE:283:HIS:HA	1.81	0.46
8:SE:398:MET:HE1	8:SE:404:PHE:CD2	2.42	0.46
9:SF:156:ARG:NH1	9:SF:197:ASP:OD1	2.40	0.46
9:SF:274:THR:HB	9:SF:278:SER:HB2	1.96	0.46
9:SH:361:LEU:HD12	9:SH:362:LYS:N	2.30	0.46
8:SI:213:CYS:SG	8:SI:214:ARG:N	2.89	0.46
8:SK:172:TYR:HH	8:SK:388:TRP:CD1	2.33	0.46
8:SK:251:ASP:N	8:SK:251:ASP:OD1	2.49	0.46
9:SL:28:HIS:CG	9:SL:47:ILE:HG13	2.50	0.46
9:SL:135:LEU:HD23	9:SL:152:ILE:HD11	1.97	0.46
8:SM:112:LYS:HA	8:SM:115:VAL:HG12	1.96	0.46
14:T2:41:LEU:HG	14:T2:43:THR:H	1.79	0.46
14:T2:159:ARG:NH2	14:T2:170:ASP:OD1	2.48	0.46
14:T5:388:LEU:O	14:T5:392:LYS:HG2	2.16	0.46
8:TA:203:MET:HA	8:TA:203:MET:CE	2.45	0.46
8:TE:241:SER:OG	8:TE:250:VAL:O	2.26	0.46
9:TF:309:ARG:NH2	9:TF:339:SER:O	2.49	0.46
8:TI:209:ILE:HD12	8:TI:227:LEU:HD23	1.98	0.46
8:TI:313:MET:N	8:TI:313:MET:SD	2.89	0.46
9:TJ:323:MET:HE1	8:TK:224:TYR:CD2	2.51	0.46
9:TN:60:VAL:HG21	9:TN:86:ARG:HH21	1.80	0.46
25:U:441:SER:O	25:U:449:ILE:HA	2.15	0.46
30:U7:123:ILE:HG22	30:U7:127:LYS:CE	2.44	0.46
8:UE:286:LEU:O	8:UE:373:ARG:NH1	2.48	0.46
8:UK:316:CYS:HB3	8:UK:378:LEU:HB2	1.96	0.46
9:UL:22:GLU:O	9:UL:25:SER:OG	2.33	0.46
9:UN:305:PRO:HA	9:UN:373:ALA:HB2	1.97	0.46
30:V5:227:ASP:OD1	30:V5:230:ARG:NH1	2.49	0.46
30:V5:329:SER:HB3	30:V5:480:PRO:HG2	1.97	0.46
30:V6:232:LEU:HD22	30:V6:324:LEU:HD13	1.97	0.46
30:V6:277:ILE:HA	30:V7:394:THR:HG21	1.97	0.46
8:VA:157:LEU:HA	8:VA:160:ASP:HB3	1.96	0.46
9:VB:173:PRO:HG3	9:VB:380:ARG:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VF:293:MET:HG3	9:VF:367:PHE:HB2	1.98	0.46
9:VH:213:ARG:HB3	9:VH:297:LYS:HE3	1.97	0.46
9:VL:322:SER:HB3	8:VM:221:ARG:HG3	1.95	0.46
8:VM:252:LEU:HA	8:VM:255:PHE:CE2	2.50	0.46
9:VN:209:ASP:HA	9:VN:212:PHE:CD1	2.40	0.46
8:VO:2:ARG:NH1	8:VO:242:LEU:HA	2.30	0.46
30:W2:201:ARG:HG2	30:W2:464:ILE:HG21	1.98	0.46
30:W5:210:ASN:HA	30:W5:213:LYS:HZ3	1.79	0.46
30:W7:241:ARG:HA	30:W7:244:ARG:HE	1.80	0.46
8:WC:304:LYS:HE2	8:WC:304:LYS:HA	1.96	0.46
8:WE:20:CYS:SG	8:WE:21:TRP:N	2.89	0.46
8:WG:107:HIS:HA	8:WG:152:LEU:HD23	1.97	0.46
8:WM:207:GLU:HA	8:WM:210:TYR:CD2	2.51	0.46
31:X:159:VAL:HG22	31:X:164:THR:HG22	1.96	0.46
31:X:657:ASP:HB3	31:X:660:ARG:HH21	1.79	0.46
33:X4:169:HIS:O	33:X4:171:GLY:N	2.48	0.46
34:X7:123:VAL:HG11	34:X7:198:LEU:HD21	1.97	0.46
35:XB:124:ARG:HE	35:XB:124:ARG:HB3	1.63	0.46
31:Y:441:ILE:HD12	31:Y:519:LEU:HB3	1.96	0.46
37:YA:164:GLU:HG2	37:YA:165:MET:SD	2.54	0.46
40:a4:74:THR:O	40:a4:78:VAL:HG12	2.15	0.46
40:a4:158:VAL:HG13	40:a4:159:ARG:H	1.80	0.46
39:a6:85:ASP:OD2	39:a6:86:MET:N	2.47	0.46
41:b2:375:ARG:HD3	41:b2:379:LYS:NZ	2.30	0.46
41:b4:337:ALA:O	41:b4:340:MET:HG3	2.13	0.46
41:b4:448:ASN:O	41:b4:452:ILE:HG22	2.15	0.46
39:c:198:ILE:HG21	39:d:525:LEU:HD22	1.97	0.46
39:c:357:GLU:O	39:c:361:ILE:HG22	2.16	0.46
42:e:586:HIS:CE1	42:e:612:LEU:HG	2.50	0.46
42:f:170:ARG:HD3	42:f:173:MET:HG3	1.97	0.46
42:f:354:LYS:HG3	42:f:373:PRO:HA	1.96	0.46
42:g:416:HIS:ND1	42:g:438:GLU:OE2	2.48	0.46
45:i1:91:ASN:OD1	45:i1:92:LEU:N	2.48	0.46
43:j:181:LYS:HA	43:j:181:LYS:HD2	1.73	0.46
4:j1:87:VAL:HB	4:j1:92:LEU:HD23	1.97	0.46
43:k:13:LEU:HD12	43:k:13:LEU:HA	1.84	0.46
45:m:110:ARG:HB2	45:m:110:ARG:HH11	1.80	0.46
48:s:135:LYS:HZ3	48:s:136:GLU:H	1.62	0.46
3:3:34:GLU:HG3	3:3:37:LEU:HD23	1.97	0.46
3:3:387:LYS:HA	3:3:390:MET:HB3	1.98	0.46
3:4:467:GLU:OE2	3:4:470:ARG:NH2	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:6:313:GLU:OE1	4:6:313:GLU:N	2.49	0.46
6:A:29:PHE:CE2	9:KD:212:PHE:HB3	2.51	0.46
9:AB:2:ARG:HD2	9:AB:240:LEU:HD11	1.98	0.46
8:AI:280:LYS:NZ	8:MI:90:GLU:HB2	2.31	0.46
9:AL:150:LEU:O	9:AL:154:LYS:HG3	2.15	0.46
8:AM:15:GLN:HB3	8:AM:228:ASN:ND2	2.31	0.46
8:AO:88:HIS:HD2	8:BO:283:HIS:CD2	2.33	0.46
11:B1:280:LYS:O	11:B1:284:LYS:HG2	2.15	0.46
11:B3:324:ARG:HB3	11:B3:328:GLU:HB2	1.97	0.46
8:BC:254:GLU:N	8:BC:254:GLU:OE1	2.47	0.46
8:BC:298:PRO:HB3	8:BC:307:PRO:HD2	1.98	0.46
8:BC:316:CYS:C	8:BC:317:MET:HE2	2.40	0.46
9:BH:18:ALA:O	9:BH:22:GLU:HG3	2.15	0.46
8:BK:279:GLU:HG2	17:L:237:ARG:HG3	1.98	0.46
9:BN:147:MET:HE1	9:BN:151:LEU:HD11	1.97	0.46
8:BO:318:LEU:HB2	8:BO:376:CYS:HB3	1.97	0.46
10:C:284:ARG:O	10:C:288:VAL:HG23	2.15	0.46
12:C0:126:ARG:HH21	11:R1:40:GLN:HB3	1.79	0.46
12:C5:412:CYS:SG	12:C5:413:ARG:N	2.88	0.46
9:CB:247:ASN:H	8:CC:11:GLN:HE22	1.63	0.46
9:CB:257:MET:SD	9:CB:312:THR:OG1	2.71	0.46
8:CC:84:ARG:NH1	40:a1:102:GLU:OE2	2.48	0.46
8:CC:322:ASP:OD2	8:CC:373:ARG:NH2	2.48	0.46
8:CC:326:LYS:NZ	9:CD:219:THR:HA	2.31	0.46
9:CD:5:VAL:HG22	9:CD:62:ARG:HD2	1.98	0.46
8:CE:51:THR:HG23	8:CE:52:PHE:HD1	1.79	0.46
9:CJ:31:ASP:OD1	9:CJ:33:THR:HG23	2.15	0.46
9:CL:182:PRO:O	9:CL:186:THR:HG23	2.16	0.46
14:D0:46:PHE:HZ	12:S5:310:ARG:HH21	1.63	0.46
14:D2:61:TYR:CZ	38:Z1:144:GLU:HG2	2.51	0.46
14:D5:393:GLU:O	14:D5:396:GLN:HG3	2.14	0.46
9:DD:193:VAL:HG22	9:DD:262:ARG:HE	1.79	0.46
9:DD:372:THR:HG21	9:DD:426:GLN:HB2	1.97	0.46
9:DF:344:TRP:H	9:DF:344:TRP:CD1	2.33	0.46
8:DG:90:GLU:HG2	8:DG:121:ARG:HD2	1.97	0.46
9:DP:251:ARG:HD2	8:DQ:105:ARG:NH1	2.30	0.46
9:DP:309:ARG:HG3	9:DP:426:GLN:HG3	1.98	0.46
9:ED:344:TRP:H	9:ED:344:TRP:CD1	2.34	0.46
9:ED:406:MET:N	9:ED:406:MET:SD	2.88	0.46
8:EK:47:ASP:OD1	8:EK:47:ASP:N	2.48	0.46
9:EL:318:ARG:HB3	9:EL:318:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:176:SER:OG	15:F:181:LEU:N	2.48	0.46
8:FA:149:PHE:HA	8:FA:152:LEU:HD12	1.98	0.46
8:FE:111:GLY:O	8:FE:115:VAL:HG13	2.15	0.46
9:FH:1:MET:N	9:FH:128:ASP:OD1	2.31	0.46
9:FH:163:ILE:C	9:FH:164:MET:HE2	2.40	0.46
8:FI:175:PRO:O	8:FI:394:LYS:NZ	2.48	0.46
8:FI:326:LYS:H	8:FI:326:LYS:HG3	1.54	0.46
9:FJ:318:ARG:NH1	9:FJ:318:ARG:HB2	2.31	0.46
8:FK:213:CYS:SG	8:FK:214:ARG:N	2.87	0.46
8:FM:188:ILE:O	8:FM:191:THR:OG1	2.22	0.46
8:FM:318:LEU:HB2	8:FM:376:CYS:HB3	1.96	0.46
9:GD:197:ASP:OD1	9:GD:197:ASP:N	2.49	0.46
8:GG:317:MET:HE2	8:GG:317:MET:HB2	1.74	0.46
8:GI:62:VAL:HG22	8:HI:283:HIS:ND1	2.30	0.46
9:GL:313:VAL:HG13	9:GL:367:PHE:HE1	1.81	0.46
9:HB:372:THR:HA	9:HB:422:TYR:HE1	1.80	0.46
9:HF:245:GLN:O	8:HG:11:GLN:NE2	2.48	0.46
9:HH:344:TRP:CE3	8:HI:401:LYS:HD2	2.51	0.46
9:HJ:113:VAL:HG22	9:HJ:117:LEU:CD2	2.45	0.46
9:HJ:215:LEU:HD11	9:HJ:273:LEU:HD23	1.97	0.46
9:HP:273:LEU:O	9:HP:292:GLN:NE2	2.36	0.46
8:IA:223:THR:HG23	8:IA:225:THR:H	1.81	0.46
8:IA:331:ALA:O	8:IA:335:ILE:HG12	2.15	0.46
8:IC:231:ILE:O	8:IC:235:VAL:HG23	2.16	0.46
8:IE:87:PHE:HB3	8:IE:91:GLN:NE2	2.30	0.46
8:IG:254:GLU:HG2	9:IH:98:GLY:HA2	1.97	0.46
9:IH:311:LEU:N	9:IH:370:ASN:O	2.44	0.46
9:IJ:58:LYS:NZ	9:IJ:59:TYR:O	2.49	0.46
8:IK:114:ILE:O	8:IK:118:VAL:HG13	2.15	0.46
9:IL:152:ILE:HA	9:IL:155:ILE:HG22	1.98	0.46
9:IN:41:ASP:OD1	9:IN:41:ASP:N	2.40	0.46
8:IO:258:ASN:HB3	8:IO:352:LYS:HZ2	1.80	0.46
8:IO:426:ALA:O	8:IO:430:LYS:HG2	2.15	0.46
17:J:288:PHE:CE1	17:J:290:PRO:HG3	2.50	0.46
8:JC:138:PHE:HA	8:JC:169:PHE:O	2.15	0.46
8:JC:276:ILE:HD11	8:JC:286:LEU:HD11	1.97	0.46
9:JD:343:GLU:O	8:JE:397:LEU:HD21	2.15	0.46
8:JQ:151:SER:HA	8:JQ:154:MET:HE3	1.97	0.46
20:K1:117:TYR:HE1	8:TC:2:ARG:HH22	1.64	0.46
20:K2:65:GLU:HB2	39:d:436:ALA:HB3	1.97	0.46
9:KB:112:LEU:HD23	9:KB:147:MET:SD	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KC:429:GLU:O	8:KC:433:GLU:HG2	2.15	0.46
8:KE:138:PHE:CD1	8:KE:169:PHE:HB2	2.51	0.46
9:KJ:309:ARG:HG2	9:KJ:426:GLN:HG3	1.96	0.46
9:KL:270:PHE:CD1	9:KL:272:PRO:HD2	2.51	0.46
9:KN:170:VAL:HG21	9:KN:377:LEU:HD21	1.97	0.46
9:KN:213:ARG:HH12	9:KN:297:LYS:HB3	1.81	0.46
9:LD:172:SER:OG	9:LD:205:GLU:OE1	2.22	0.46
9:LF:171:PRO:HB3	9:LF:181:GLU:OE2	2.15	0.46
8:LM:437:VAL:HG13	43:k:91:ARG:HH11	1.81	0.46
9:LN:293:MET:HE3	9:LN:294:PHE:N	2.30	0.46
8:MG:226:ASN:ND2	8:MG:367:ASP:OD2	2.48	0.46
8:MG:310:GLY:HA3	8:MG:383:ALA:HB2	1.97	0.46
9:MH:279:GLN:HG3	23:P:193:ASP:OD2	2.15	0.46
9:MJ:17:GLY:HA2	9:MJ:20:PHE:HB3	1.98	0.46
9:MJ:227:HIS:NE2	23:P:139:MET:HG2	2.30	0.46
9:MN:257:MET:SD	9:MN:312:THR:OG1	2.64	0.46
9:MP:5:VAL:HG22	9:MP:62:ARG:HD2	1.97	0.46
8:NA:107:HIS:HA	8:NA:152:LEU:HD23	1.98	0.46
8:NA:132:LEU:HD12	8:NA:133:GLN:N	2.31	0.46
8:NA:151:SER:HA	8:NA:193:THR:HG21	1.96	0.46
8:NA:291:ILE:HD12	8:NA:375:VAL:HB	1.98	0.46
9:NB:7:LEU:N	9:NB:134:GLN:O	2.46	0.46
9:NJ:253:LEU:O	9:NJ:257:MET:HG2	2.16	0.46
8:NK:119:LEU:HD21	8:NK:156:ARG:HH21	1.80	0.46
8:NK:259:LEU:HD11	8:NK:316:CYS:HB2	1.96	0.46
9:NL:322:SER:OG	8:NM:222:PRO:O	2.29	0.46
8:NM:53:PHE:CB	8:NM:61:HIS:O	2.63	0.46
17:O7:54:SER:OG	17:O7:55:VAL:N	2.48	0.46
17:O7:261:LEU:H	17:O7:264:ARG:HG2	1.80	0.46
9:OB:7:LEU:HD12	9:OB:8:GLN:N	2.30	0.46
9:OJ:19:LYS:HA	9:OJ:22:GLU:CD	2.40	0.46
27:P7:179:TYR:HD2	11:R4:379:CYS:HA	1.80	0.46
9:PB:330:MET:HA	9:PB:333:VAL:HG12	1.98	0.46
8:PC:3:GLU:OE2	8:PC:64:ARG:NH2	2.48	0.46
8:PC:21:TRP:HA	8:PC:24:TYR:CD1	2.50	0.46
8:PE:298:PRO:HA	8:PE:301:GLN:HG2	1.96	0.46
8:PE:338:LYS:HD3	8:PE:341:ILE:HG12	1.98	0.46
9:PF:21:TRP:O	9:PF:25:SER:OG	2.23	0.46
9:PF:258:VAL:HB	8:PG:407:TRP:HE1	1.81	0.46
9:PJ:350:LYS:HD2	8:PK:180:ALA:HA	1.96	0.46
9:QB:231:ALA:HB1	9:QB:270:PHE:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QC:9:VAL:HG11	8:QC:150:ALA:HB2	1.97	0.46
8:QC:235:VAL:HA	8:QC:238:ILE:HG12	1.96	0.46
9:QD:246:LEU:H	9:QD:353:VAL:HB	1.80	0.46
9:QD:324:LYS:NZ	8:QE:220:GLU:O	2.42	0.46
9:QF:198:GLU:HB3	9:QF:266:PHE:HE2	1.80	0.46
9:QJ:323:MET:HE1	9:QJ:353:VAL:HG21	1.97	0.46
8:QM:310:GLY:HA3	8:QM:383:ALA:HB2	1.97	0.46
8:QM:345:ASP:N	8:QM:345:ASP:OD1	2.47	0.46
9:QN:267:MET:HG3	9:QN:299:MET:SD	2.56	0.46
8:QO:324:VAL:HG12	8:QO:326:LYS:H	1.80	0.46
11:R4:118:THR:HB	14:T1:409:ARG:HH12	1.81	0.46
8:RG:3:GLU:OE2	8:RG:64:ARG:NH2	2.48	0.46
8:RG:108:TYR:CD1	8:RG:413:MET:HE2	2.49	0.46
8:RI:60:LYS:HE2	8:SG:283:HIS:CD2	2.51	0.46
9:RJ:54:ALA:HB1	9:RJ:58:LYS:NZ	2.30	0.46
12:S2:291:ASP:OD2	12:S6:69:SER:OG	2.33	0.46
12:S8:135:ILE:O	12:S8:138:THR:OG1	2.28	0.46
12:S9:332:THR:O	12:S9:336:MET:HG2	2.16	0.46
12:S9:373:PHE:CZ	14:T0:42:ALA:HA	2.50	0.46
14:T4:71:ARG:HH22	14:T5:324:LYS:HB3	1.80	0.46
14:T4:78:ARG:HH12	14:T5:332:GLN:CA	2.26	0.46
8:TA:226:ASN:HD22	8:TA:229:ARG:HH12	1.63	0.46
9:TB:285:THR:HB	9:TB:287:PRO:HD2	1.98	0.46
9:TD:323:MET:HE2	9:TD:323:MET:HB3	1.70	0.46
8:TE:20:CYS:O	8:TE:23:LEU:HD12	2.15	0.46
8:TE:111:GLY:O	8:TE:115:VAL:HG23	2.16	0.46
8:TE:263:PRO:HG3	9:TF:396:HIS:CD2	2.50	0.46
9:TF:276:ARG:O	9:TF:276:ARG:NE	2.48	0.46
8:TI:123:ARG:NH2	8:TI:160:ASP:OD1	2.49	0.46
9:TJ:267:MET:SD	9:TJ:299:MET:HB3	2.56	0.46
8:TK:132:LEU:O	8:TK:164:LYS:NZ	2.38	0.46
8:TM:51:THR:HG21	8:TM:243:ARG:HG2	1.97	0.46
9:TN:278:SER:HB3	9:TN:282:ARG:HH12	1.80	0.46
25:U:519:ASN:OD1	25:U:519:ASN:N	2.49	0.46
30:U1:391:MET:HA	30:U1:391:MET:HE3	1.97	0.46
30:U3:468:LYS:O	30:U3:472:MET:HE3	2.16	0.46
30:U4:168:SER:HA	30:U4:171:ASP:OD1	2.16	0.46
30:U9:361:LEU:HD13	30:U9:455:LEU:HD12	1.97	0.46
8:UA:269:LEU:HD11	8:UA:384:ILE:HG22	1.98	0.46
8:UC:167:LEU:HD12	8:UC:202:PHE:HE2	1.80	0.46
9:UD:146:GLY:O	9:UD:149:THR:OG1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UD:217:LEU:HD13	9:UD:220:PRO:HB3	1.97	0.46
8:UG:183:GLU:HA	8:UG:186:ASN:HD22	1.81	0.46
9:UH:73:MET:N	9:UH:73:MET:SD	2.88	0.46
9:UJ:167:PHE:CE1	9:UJ:233:MET:HG2	2.50	0.46
30:V0:214:ASN:HB3	30:V0:339:THR:HG22	1.97	0.46
30:V0:387:TYR:CZ	30:V1:272:SER:HB3	2.51	0.46
8:VA:108:TYR:HA	8:VA:112:LYS:HE3	1.97	0.46
9:VD:289:LEU:HD11	9:VD:363:MET:HG3	1.98	0.46
8:VE:136:LEU:HB2	8:VE:169:PHE:CE1	2.42	0.46
9:VF:7:LEU:N	9:VF:134:GLN:O	2.40	0.46
9:VF:215:LEU:HB3	9:VF:217:LEU:HD23	1.97	0.46
9:VH:113:VAL:HA	9:VH:116:VAL:HG22	1.97	0.46
9:VJ:289:LEU:HD21	9:VJ:363:MET:HG3	1.97	0.46
8:VM:27:GLU:OE2	8:VM:320:ARG:NH2	2.48	0.46
8:VM:121:ARG:HH21	8:VM:124:LYS:HB2	1.80	0.46
8:VO:31:GLN:HG2	8:VO:37:PRO:HD3	1.97	0.46
30:W2:305:ARG:HA	30:W2:308:GLN:OE1	2.15	0.46
30:W6:235:ARG:NH2	30:W6:320:GLU:OE1	2.46	0.46
8:WA:117:LEU:HD12	8:WA:121:ARG:HH11	1.80	0.46
8:WC:115:VAL:HG12	8:WC:152:LEU:HD13	1.98	0.46
8:WE:234:ILE:HD11	8:WE:272:TYR:HB2	1.98	0.46
9:WJ:212:PHE:HB2	9:WJ:213:ARG:NH1	2.31	0.46
8:WM:234:ILE:HD11	8:WM:272:TYR:HB2	1.97	0.46
34:X8:90:MET:SD	34:X8:91:GLU:HG2	2.55	0.46
34:X8:238:GLU:HA	34:X8:241:LYS:HD2	1.98	0.46
35:XB:62:PRO:HD3	35:XB:69:LEU:HG	1.97	0.46
31:Y:19:ARG:O	31:Y:44:GLY:HA2	2.16	0.46
36:Y1:106:TYR:HD2	36:Y1:108:PRO:CD	2.27	0.46
37:YH:201:LYS:HB2	37:YH:203:GLU:OE2	2.15	0.46
40:a3:120:PHE:HB3	40:a3:132:LYS:HE3	1.97	0.46
39:b:475:ALA:O	39:b:479:ARG:HG2	2.15	0.46
41:b1:452:ILE:HG13	41:b1:453:GLY:N	2.30	0.46
41:b2:456:VAL:O	41:b2:460:VAL:HG23	2.15	0.46
41:b4:156:ARG:O	41:b4:159:GLU:HG3	2.16	0.46
41:b4:408:GLN:O	41:b4:409:LEU:HD23	2.15	0.46
39:c:372:LEU:C	39:c:372:LEU:CD2	2.86	0.46
42:f:602:ILE:N	42:f:614:TRP:O	2.35	0.46
46:i2:1337:GLN:HG2	46:i2:1340:TRP:HZ3	1.79	0.46
46:i4:1333:ARG:HD2	46:i4:1403:CYS:HA	1.98	0.46
43:j:143:PRO:O	43:j:145:TYR:N	2.48	0.46
43:j:199:GLY:HA2	43:j:202:LYS:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:j1:290:ILE:HG22	4:j1:329:ILE:HD12	1.98	0.46
43:k:233:GLU:O	43:k:237:LEU:HB2	2.15	0.46
2:1:513:HIS:HB3	8:IE:220:GLU:OE2	2.15	0.46
2:2:510:LYS:HE3	2:2:510:LYS:HB3	1.77	0.46
8:AA:136:LEU:HD23	8:AA:167:LEU:HD13	1.98	0.46
9:AB:213:ARG:NE	9:AB:297:LYS:HD3	2.30	0.46
8:AC:42:ILE:HD12	31:W:76:LYS:HE3	1.98	0.46
9:AF:130:LEU:O	9:AF:162:ARG:NH2	2.37	0.46
9:AJ:164:MET:HE2	9:AJ:164:MET:HB2	1.69	0.46
8:AM:7:ILE:HB	8:AM:137:ILE:HG22	1.98	0.46
9:AP:313:VAL:HB	9:AP:349:VAL:HG22	1.98	0.46
11:B3:408:VAL:HG12	11:B3:409:ASP:N	2.30	0.46
8:BE:102:ASN:HB3	8:BE:105:ARG:HB2	1.98	0.46
8:BG:209:ILE:HA	8:BG:212:ILE:HG22	1.97	0.46
9:BH:36:TYR:CZ	9:BH:44:LEU:HD22	2.50	0.46
9:CB:4:ILE:HD12	9:CB:134:GLN:HE21	1.79	0.46
9:CF:68:LEU:HB3	9:CF:96:GLY:HA2	1.98	0.46
9:CF:284:LEU:HD12	9:CF:363:MET:HB3	1.98	0.46
9:CH:177:ASP:OD1	9:CH:177:ASP:N	2.45	0.46
9:CH:207:LEU:HB3	9:CH:225:LEU:HD22	1.97	0.46
9:CJ:203:ASP:OD2	9:CJ:302:ALA:HB2	2.16	0.46
8:CK:27:GLU:OE2	8:CK:320:ARG:NH2	2.47	0.46
8:CM:108:TYR:HA	8:CM:112:LYS:HE3	1.98	0.46
8:CM:346:TRP:HB3	9:CN:391:ARG:HG3	1.97	0.46
9:CN:313:VAL:HG13	9:CN:367:PHE:HE1	1.80	0.46
14:D3:127:GLU:OE2	14:D3:204:ASN:ND2	2.48	0.46
8:DC:118:VAL:HG21	8:DC:149:PHE:HZ	1.80	0.46
9:DF:261:PRO:HG3	8:DG:406:HIS:CD2	2.51	0.46
8:DG:150:ALA:O	8:DG:154:MET:HG3	2.16	0.46
9:DH:375:GLN:NE2	9:DH:423:GLN:OE1	2.34	0.46
8:DK:277:SER:OG	8:DK:279:GLU:OE1	2.33	0.46
9:DN:358:PRO:HG2	9:DN:361:LEU:HB3	1.98	0.46
15:E:38:LEU:HD13	15:E:40:ILE:HD11	1.97	0.46
15:E:279:ASN:HB3	15:E:283:ASP:CG	2.41	0.46
9:ED:269:GLY:HA2	9:ED:300:MET:HE3	1.97	0.46
9:EH:276:ARG:HB3	25:V:396:ASN:OD1	2.15	0.46
8:EI:108:TYR:HA	8:EI:112:LYS:HE3	1.96	0.46
8:FA:83:TYR:HB3	8:FA:86:LEU:HD23	1.98	0.46
8:FK:166:LYS:N	8:FK:199:ASP:OD2	2.43	0.46
9:FN:258:VAL:HB	8:FO:407:TRP:HZ2	1.81	0.46
8:FO:6:SER:HB3	8:FO:8:HIS:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GD:8:GLN:HB3	9:GD:65:LEU:HA	1.98	0.46
9:GF:87:PRO:HD3	9:HF:281:TYR:CE2	2.51	0.46
9:GF:143:THR:HG23	9:GF:147:MET:HE3	1.98	0.46
8:GG:298:PRO:HG3	8:GG:308:ARG:HE	1.80	0.46
8:GK:190:THR:O	8:GK:193:THR:OG1	2.28	0.46
9:GL:31:ASP:OD1	9:GL:35:THR:N	2.49	0.46
8:GM:88:HIS:HE1	8:GM:90:GLU:HB3	1.79	0.46
8:GM:182:VAL:O	8:GM:186:ASN:ND2	2.48	0.46
8:HC:1:MET:SD	8:HC:2:ARG:NH1	2.88	0.46
8:HG:164:LYS:HE3	8:HG:164:LYS:HB3	1.64	0.46
8:HI:47:ASP:OD1	8:HI:47:ASP:N	2.49	0.46
9:HN:60:VAL:HG11	9:IN:281:TYR:HB3	1.98	0.46
8:HO:262:TYR:OH	9:HP:391:ARG:O	2.25	0.46
9:IB:107:THR:OG1	9:IB:108:GLU:N	2.48	0.46
9:IB:324:LYS:HD3	8:IC:222:PRO:HD2	1.96	0.46
9:ID:389:PHE:O	9:ID:392:LYS:NZ	2.32	0.46
8:IE:79:ARG:HD3	15:N2:16:ASN:ND2	2.31	0.46
9:IF:32:PRO:HD3	9:IF:81:PHE:CZ	2.50	0.46
9:IL:62:ARG:NH1	9:IL:127:CYS:SG	2.89	0.46
9:IL:334:GLN:OE1	9:IL:348:ASN:N	2.49	0.46
8:IO:431:ASP:O	8:IO:434:GLU:HG3	2.16	0.46
9:IP:127:CYS:SG	9:IP:130:LEU:HB2	2.55	0.46
9:IP:246:LEU:HD22	9:IP:352:ALA:HA	1.97	0.46
9:IP:287:PRO:HB3	9:IP:329:GLN:NE2	2.31	0.46
19:J2:86:GLY:HA3	8:OC:286:LEU:HB2	1.97	0.46
19:J3:37:THR:HG22	19:J3:40:ASP:HB2	1.96	0.46
19:J4:50:LEU:H	9:NJ:57:GLY:N	2.13	0.46
9:JD:209:ASP:OD1	9:JD:297:LYS:NZ	2.49	0.46
8:JE:221:ARG:NH2	8:JE:222:PRO:O	2.28	0.46
8:JE:393:HIS:ND1	8:JE:393:HIS:C	2.73	0.46
9:JH:35:THR:OG1	9:JH:37:HIS:NE2	2.38	0.46
8:JI:324:VAL:HB	8:JI:327:ASP:OD1	2.14	0.46
9:JJ:332:ASN:O	9:JJ:336:LYS:HG2	2.16	0.46
9:JL:182:PRO:O	9:JL:186:THR:OG1	2.31	0.46
8:JM:147:SER:OG	8:JM:190:THR:OG1	2.19	0.46
8:KC:203:MET:HE1	8:KC:267:PHE:HB3	1.98	0.46
9:KD:318:ARG:HB2	9:KD:364:SER:HB3	1.97	0.46
9:KF:12:CYS:HB3	9:KF:138:SER:HB3	1.97	0.46
8:KG:310:GLY:HA3	8:KG:383:ALA:HB2	1.97	0.46
8:KI:52:PHE:CE2	8:KI:243:ARG:HD3	2.51	0.46
8:KO:231:ILE:HA	8:KO:234:ILE:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L1:76:ARG:HH21	39:a:231:MET:HA	1.81	0.46
8:LA:264:ARG:HH12	8:LA:428:LEU:HD13	1.80	0.46
9:LF:27:GLU:OE1	9:LF:241:ARG:NH2	2.42	0.46
8:LK:159:VAL:HG22	45:n:109:LEU:HD23	1.97	0.46
22:M1:187:GLN:O	22:M1:190:GLN:HG3	2.16	0.46
8:ME:345:ASP:N	8:ME:345:ASP:OD1	2.49	0.46
9:MF:1:MET:HB3	9:MF:2:ARG:H	1.59	0.46
8:MG:369:ALA:HA	23:P:221:GLN:HE22	1.80	0.46
8:MG:392:ASP:CG	8:MG:425:LEU:HD23	2.41	0.46
9:MH:8:GLN:NE2	9:MH:17:GLY:HA3	2.30	0.46
9:MJ:91:VAL:HG11	9:MJ:116:VAL:HG22	1.98	0.46
8:MM:153:LEU:O	8:MM:157:LEU:HB2	2.14	0.46
8:MO:258:ASN:OD1	9:MP:179:VAL:N	2.40	0.46
9:MP:20:PHE:CE1	9:MP:233:MET:HE2	2.51	0.46
9:MP:363:MET:HE2	9:MP:363:MET:HB3	1.68	0.46
9:NB:321:MET:N	9:NB:321:MET:SD	2.87	0.46
9:ND:42:LEU:HD23	9:ND:356:ILE:HD11	1.97	0.46
8:NE:139:HIS:O	8:NE:170:ALA:HA	2.15	0.46
8:NE:326:LYS:HA	8:NE:329:ASN:HD21	1.81	0.46
9:NF:48:ASN:OD1	9:NF:48:ASN:N	2.47	0.46
9:NJ:302:ALA:O	9:NJ:380:ARG:NH2	2.46	0.46
9:NJ:411:ALA:O	9:NJ:415:MET:HG2	2.16	0.46
9:NL:311:LEU:HD13	9:NL:342:VAL:HG11	1.98	0.46
8:NM:200:CYS:HA	8:NM:266:HIS:HB2	1.98	0.46
17:O8:92:LEU:H	17:O8:92:LEU:HD23	1.80	0.46
17:O8:176:ASN:OD1	17:O8:176:ASN:N	2.47	0.46
9:OB:5:VAL:HB	9:OB:133:PHE:HD1	1.80	0.46
9:OB:31:ASP:HB3	9:OB:37:HIS:CD2	2.50	0.46
9:OB:318:ARG:O	9:OB:364:SER:N	2.48	0.46
8:OC:326:LYS:HG3	9:OD:220:PRO:HG2	1.97	0.46
8:OI:60:LYS:HE3	8:PI:282:TYR:CZ	2.50	0.46
8:OK:212:ILE:HG21	8:OK:302:MET:HE1	1.97	0.46
9:OL:167:PHE:CZ	9:OL:233:MET:HG2	2.50	0.46
9:OL:226:ASN:O	9:OL:230:SER:N	2.42	0.46
9:OL:242:PHE:HB3	9:OL:356:ILE:HD12	1.96	0.46
8:OM:217:LEU:HD21	8:OM:275:VAL:HB	1.95	0.46
8:OM:274:PRO:HG3	8:OM:371:VAL:HG11	1.98	0.46
9:ON:285:THR:HB	9:ON:287:PRO:HD2	1.97	0.46
9:OP:314:ALA:N	9:OP:368:ILE:O	2.44	0.46
9:PB:376:GLU:HA	9:PB:379:LYS:HZ3	1.81	0.46
9:PD:266:PHE:CE1	9:PD:370:ASN:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PE:190:THR:O	8:PE:194:THR:HG23	2.15	0.46
8:PG:269:LEU:HD22	8:PG:303:VAL:HG21	1.97	0.46
9:PH:344:TRP:H	9:PH:344:TRP:CD1	2.31	0.46
8:PI:102:ASN:ND2	8:PI:105:ARG:HG3	2.31	0.46
8:PI:311:LYS:H	8:PI:382:THR:HG22	1.80	0.46
9:PP:72:THR:O	9:PP:75:SER:OG	2.25	0.46
23:Q:287:LYS:O	23:Q:291:THR:HG23	2.16	0.46
28:Q3:175:ARG:NH1	28:Q3:181:GLN:OE1	2.48	0.46
9:QB:1:MET:HE2	9:QB:46:ARG:HD2	1.97	0.46
9:QB:324:LYS:H	8:QC:221:ARG:HH22	1.64	0.46
9:QD:344:TRP:H	9:QD:344:TRP:CD1	2.32	0.46
8:QE:69:ASP:O	8:QE:94:THR:HA	2.15	0.46
9:QF:132:GLY:HA2	9:QF:162:ARG:HB3	1.97	0.46
8:QI:139:HIS:O	8:QI:170:ALA:HA	2.15	0.46
8:QM:320:ARG:HG3	8:QM:356:ASN:HB3	1.96	0.46
9:QP:292:GLN:HB3	9:QP:293:MET:HE2	1.98	0.46
11:R0:118:THR:O	14:T5:409:ARG:NH1	2.41	0.46
11:R0:300:LEU:HA	11:R0:303:ASP:OD2	2.15	0.46
11:R2:369:HIS:HE1	11:R3:27:ASN:HB3	1.80	0.46
11:R4:409:ASP:C	11:R4:411:PHE:N	2.70	0.46
9:RH:15:GLN:OE1	9:RH:15:GLN:N	2.48	0.46
9:RH:124:ALA:HB1	9:RH:159:TYR:HE2	1.80	0.46
9:RH:300:MET:SD	9:RH:300:MET:N	2.85	0.46
8:RK:338:LYS:HD2	8:RK:340:THR:HG23	1.98	0.46
9:RL:146:GLY:O	9:RL:149:THR:OG1	2.29	0.46
9:RN:223:GLY:O	9:RN:227:HIS:N	2.46	0.46
12:S0:141:HIS:CE1	12:S0:145:ASN:OD1	2.69	0.46
12:S3:71:ARG:HD3	12:S4:234:ARG:NH1	2.30	0.46
12:S3:351:ILE:HD11	12:S3:469:ASP:HB3	1.97	0.46
12:S4:446:GLN:NE2	12:S5:283:TYR:O	2.48	0.46
12:S7:121:ARG:NH2	12:S8:374:GLN:HE21	2.14	0.46
12:S7:414:ASP:OD1	12:S7:414:ASP:N	2.44	0.46
8:SC:194:THR:O	8:SC:266:HIS:NE2	2.37	0.46
8:SC:402:ARG:HA	8:SC:402:ARG:HD3	1.84	0.46
9:SD:407:GLU:HA	9:SD:410:GLU:HG2	1.96	0.46
8:SE:72:PRO:HD3	8:SE:95:GLY:O	2.15	0.46
9:SF:7:LEU:HD12	9:SF:135:LEU:HB2	1.97	0.46
8:SG:316:CYS:HB2	8:SG:378:LEU:HB2	1.97	0.46
9:SH:51:TYR:O	9:SH:62:ARG:NH2	2.46	0.46
9:SH:379:LYS:HD3	9:SH:419:VAL:HG11	1.98	0.46
8:SI:83:TYR:HB3	8:SI:86:LEU:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:T:128:ASP:HB3	33:X4:51:THR:HG22	1.97	0.46
8:TC:365:GLY:H	47:o:168:TYR:HE2	1.64	0.46
9:TF:322:SER:OG	8:TG:222:PRO:O	2.28	0.46
8:TG:195:LEU:HD22	8:TG:428:LEU:HD21	1.98	0.46
8:TI:6:SER:HB3	8:TI:8:HIS:NE2	2.31	0.46
8:TK:317:MET:HE2	8:TK:317:MET:HA	1.97	0.46
9:TL:5:VAL:HG22	9:TL:62:ARG:HD2	1.98	0.46
9:TL:20:PHE:HA	9:TL:23:VAL:HG22	1.97	0.46
9:TL:192:LEU:HD21	9:TL:199:THR:HG21	1.97	0.46
8:TM:153:LEU:HA	8:TM:156:ARG:HG2	1.98	0.46
9:TN:52:ASN:HB3	9:TN:60:VAL:HG23	1.98	0.46
25:U:158:ASP:OD1	33:X4:222:SER:OG	2.34	0.46
30:U1:119:ASP:O	30:U1:123:ILE:HG23	2.15	0.46
30:U5:140:ARG:NH1	30:V1:144:GLN:OE1	2.49	0.46
8:UA:288:VAL:HG21	8:UA:327:ASP:HB3	1.98	0.46
8:UC:313:MET:SD	8:UC:313:MET:N	2.89	0.46
9:UD:375:GLN:HA	9:UD:378:PHE:HD2	1.80	0.46
8:UG:102:ASN:HD22	8:UG:105:ARG:HG3	1.80	0.46
8:UG:164:LYS:HD3	8:UG:164:LYS:HA	1.72	0.46
8:UI:14:VAL:HG21	8:UI:74:VAL:HG12	1.97	0.46
9:UL:31:ASP:OD1	9:UL:35:THR:N	2.48	0.46
8:UM:7:ILE:HB	8:UM:137:ILE:HG23	1.98	0.46
9:UN:39:ASP:OD1	9:UN:39:ASP:N	2.43	0.46
8:UO:345:ASP:OD1	8:UO:345:ASP:N	2.41	0.46
25:V:448:MET:HG2	25:V:448:MET:H	1.54	0.46
30:V1:119:ASP:HA	30:V1:122:ARG:HB2	1.97	0.46
30:V1:213:LYS:O	30:V1:217:ARG:HG2	2.14	0.46
30:V2:454:GLU:HB3	30:V2:458:LYS:HE2	1.98	0.46
30:V3:399:ARG:HA	30:V3:399:ARG:HD3	1.57	0.46
30:V6:282:GLY:HA3	30:V6:285:LYS:HE3	1.97	0.46
30:V7:231:LYS:HA	30:V7:234:LYS:HD2	1.97	0.46
30:V7:278:SER:C	30:V7:280:PHE:H	2.23	0.46
8:VA:154:MET:SD	8:VA:193:THR:HG23	2.55	0.46
9:VB:146:GLY:O	9:VB:149:THR:OG1	2.33	0.46
9:VB:190:HIS:CE1	9:VB:414:ASN:ND2	2.83	0.46
8:VC:437:VAL:O	9:VD:391:ARG:NH2	2.44	0.46
9:VH:267:MET:HE3	9:VH:267:MET:HB3	1.83	0.46
8:VI:277:SER:H	8:VI:280:LYS:NZ	2.12	0.46
8:VK:172:TYR:CE2	8:VK:304:LYS:HE3	2.51	0.46
8:VK:191:THR:HB	8:VK:425:LEU:HD21	1.98	0.46
9:VN:346:PRO:HD2	8:VO:398:MET:CE	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W4:210:ASN:OD1	30:W4:210:ASN:N	2.47	0.46
30:W7:143:GLY:HA3	30:W7:145:ARG:HG2	1.97	0.46
8:WA:268:PRO:HB2	8:WA:378:LEU:HD11	1.97	0.46
8:WC:152:LEU:O	8:WC:156:ARG:HG3	2.15	0.46
9:WF:330:MET:HA	9:WF:333:VAL:HG12	1.97	0.46
8:WK:117:LEU:O	8:WK:121:ARG:HG2	2.15	0.46
9:WL:114:ASP:OD1	9:WL:114:ASP:N	2.46	0.46
9:WP:130:LEU:HD21	9:WP:133:PHE:HE1	1.79	0.46
31:X:19:ARG:HE	31:X:19:ARG:HB3	1.50	0.46
31:X:488:LYS:HB2	31:X:500:GLU:HG3	1.97	0.46
34:X7:216:ASP:OD1	34:X7:218:ALA:N	2.49	0.46
34:X8:59:ARG:O	34:X8:63:ILE:HG12	2.15	0.46
35:XE:75:PHE:HB2	35:XE:168:SER:HB3	1.96	0.46
31:Y:747:ASP:N	31:Y:747:ASP:OD1	2.48	0.46
36:Y1:29:LYS:HG2	36:Y1:30:TYR:H	1.80	0.46
36:Y1:239:GLY:C	36:Y1:240:ILE:HD12	2.41	0.46
42:e:263:GLY:HA2	42:e:277:LYS:HA	1.97	0.46
42:f:351:CYS:HB3	42:f:380:ILE:HB	1.97	0.46
42:f:394:ASP:OD1	42:f:394:ASP:N	2.48	0.46
42:f:437:GLY:HA2	42:f:463:SER:HA	1.97	0.46
42:f:492:ARG:HH21	42:f:494:ARG:HD3	1.80	0.46
46:i2:1490:PHE:O	46:i2:1494:LEU:HG	2.16	0.46
47:p:237:MET:HA	47:p:237:MET:HE3	1.97	0.46
3:3:161:CYS:HA	26:P2:5:ASN:ND2	2.29	0.46
4:6:71:TYR:HH	4:6:88:PHE:H	1.62	0.46
7:A3:129:HIS:CE1	7:A3:134:GLN:HG2	2.51	0.46
8:AA:283:HIS:CE1	8:MA:88:HIS:HA	2.50	0.46
9:AB:379:LYS:O	9:AB:383:GLU:HG2	2.15	0.46
8:AC:107:HIS:HA	8:AC:152:LEU:HD23	1.98	0.46
9:AD:78:SER:OG	31:W:129:THR:OG1	2.27	0.46
8:AE:111:GLY:O	8:AE:115:VAL:HG23	2.15	0.46
8:AG:70:LEU:HB3	8:AG:98:ASP:HA	1.98	0.46
8:AK:388:TRP:HE3	8:AK:429:GLU:HG3	1.80	0.46
9:AN:363:MET:HE3	9:AN:363:MET:HB2	1.77	0.46
8:AO:125:LEU:HD23	8:AO:125:LEU:HA	1.80	0.46
10:B:105:LEU:CD2	9:HH:33:THR:HG22	2.45	0.46
11:B3:170:GLN:NE2	14:D3:143:ASP:O	2.49	0.46
9:BB:5:VAL:HB	9:BB:133:PHE:CD2	2.50	0.46
9:BB:216:LYS:HE2	25:T:144:PRO:HG3	1.98	0.46
9:BB:313:VAL:HG12	9:BB:349:VAL:HG13	1.97	0.46
9:BD:317:PHE:HB3	9:BD:321:MET:HE1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BD:318:ARG:O	9:BD:357:PRO:HA	2.15	0.46
8:BE:68:VAL:HG22	8:BE:93:ILE:HB	1.97	0.46
8:BE:288:VAL:HA	8:BE:291:ILE:HG12	1.98	0.46
8:BI:79:ARG:NH1	17:K:284:PHE:O	2.49	0.46
8:BM:167:LEU:HD11	8:BM:252:LEU:HD12	1.98	0.46
9:BN:113:VAL:HG11	9:BN:150:LEU:HD23	1.98	0.46
8:BO:88:HIS:HB3	8:BO:91:GLN:HE21	1.81	0.46
12:C0:131:LYS:HZ1	12:C1:430:THR:HA	1.80	0.46
12:C3:425:TYR:O	12:C3:429:GLU:HG2	2.16	0.46
9:CD:271:ALA:HB3	9:CD:272:PRO:HD3	1.98	0.46
8:CE:22:GLU:OE1	8:CE:83:TYR:OH	2.23	0.46
9:CF:163:ILE:HD12	9:CF:197:ASP:OD2	2.15	0.46
9:CL:245:GLN:NE2	8:CM:223:THR:HG1	2.12	0.46
8:CO:107:HIS:HA	8:CO:152:LEU:HD23	1.98	0.46
9:DF:41:ASP:HB2	17:J:54:SER:HA	1.96	0.46
8:DG:60:LYS:HZ1	8:EE:282:TYR:C	2.17	0.46
9:DN:239:CYS:SG	9:DN:248:ALA:N	2.88	0.46
9:DP:313:VAL:HG13	9:DP:367:PHE:HE1	1.81	0.46
8:DQ:360:PRO:O	8:DQ:370:LYS:NZ	2.39	0.46
9:EF:54:ALA:HB3	9:EF:58:LYS:HB2	1.97	0.46
9:EF:257:MET:HE2	9:EF:257:MET:HA	1.98	0.46
8:EK:278:ALA:HA	8:EK:369:ALA:HB2	1.98	0.46
8:EM:370:LYS:HB3	17:N:9:LEU:HD11	1.97	0.46
8:FC:108:TYR:HA	8:FC:112:LYS:HE3	1.97	0.46
9:FF:73:MET:HE3	9:FF:90:PHE:HD2	1.80	0.46
9:FJ:135:LEU:HD23	9:FJ:152:ILE:HD11	1.97	0.46
9:FN:257:MET:HE3	9:FN:314:ALA:HB2	1.98	0.46
9:FN:318:ARG:HD3	9:FN:358:PRO:HD3	1.98	0.46
9:GD:368:ILE:HD12	9:GD:368:ILE:HA	1.80	0.46
9:GH:5:VAL:HG22	9:GH:62:ARG:HD2	1.98	0.46
9:GH:313:VAL:HG13	9:GH:367:PHE:HE1	1.80	0.46
8:GO:69:ASP:OD1	8:GO:70:LEU:N	2.49	0.46
8:HA:4:CYS:HA	8:HA:134:GLY:O	2.16	0.46
9:HB:237:THR:HG22	9:HB:250:LEU:HD21	1.97	0.46
9:HB:286:VAL:O	9:HB:290:THR:HG23	2.16	0.46
9:HB:385:PHE:HZ	9:HB:408:PHE:HB3	1.79	0.46
9:HD:163:ILE:HD11	9:HD:251:ARG:NH1	2.31	0.46
9:HH:285:THR:HB	9:HH:287:PRO:HD2	1.98	0.46
8:HI:311:LYS:H	8:HI:382:THR:HG22	1.81	0.46
8:HK:89:PRO:HB2	8:IK:280:LYS:HZ2	1.80	0.46
9:HN:114:ASP:N	9:HN:114:ASP:OD1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HN:182:PRO:O	9:HN:186:THR:OG1	2.24	0.46
8:HO:28:HIS:NE2	8:HO:49:PHE:HB3	2.31	0.46
8:IA:191:THR:HA	8:IA:194:THR:HG22	1.97	0.46
8:IE:7:ILE:HG22	8:IE:7:ILE:O	2.16	0.46
8:IG:167:LEU:HD12	8:IG:202:PHE:CE2	2.46	0.46
8:IG:292:THR:O	8:IG:295:CYS:HB2	2.16	0.46
9:IH:377:LEU:HA	9:IH:380:ARG:HD3	1.97	0.46
8:II:70:LEU:HB3	8:II:98:ASP:HA	1.96	0.46
9:IJ:144:GLY:N	52:IJ:502:GDP:O1B	2.33	0.46
8:IK:319:TYR:HE2	8:IK:328:VAL:HG13	1.80	0.46
8:IK:325:PRO:HA	8:IK:328:VAL:HB	1.97	0.46
8:IK:326:LYS:HB2	8:IK:326:LYS:HE3	1.56	0.46
8:IM:186:ASN:OD1	8:IM:408:TYR:OH	2.33	0.46
9:IN:8:GLN:HG2	9:IN:14:ASN:HA	1.98	0.46
9:IN:295:ASP:HB2	36:Y1:54:ARG:HB2	1.97	0.46
8:IO:297:GLU:HG2	8:IO:299:ALA:H	1.80	0.46
8:IO:326:LYS:HA	9:IP:208:TYR:OH	2.16	0.46
9:IP:21:TRP:HZ3	9:IP:51:TYR:HE1	1.62	0.46
19:J1:206:LYS:O	19:J1:210:VAL:HG13	2.15	0.46
19:J3:106:PHE:CZ	9:NH:58:LYS:HG3	2.51	0.46
9:JD:197:ASP:OD1	9:JD:197:ASP:N	2.49	0.46
8:JE:313:MET:HE2	8:JE:346:TRP:HZ2	1.80	0.46
9:JH:28:HIS:ND1	9:JH:43:GLN:O	2.40	0.46
9:JH:396:HIS:CG	9:JH:397:TRP:N	2.83	0.46
8:JK:115:VAL:HG22	8:JK:152:LEU:HD13	1.98	0.46
8:JK:252:LEU:HD12	8:JK:252:LEU:H	1.81	0.46
9:JN:62:ARG:HG2	9:JN:123:GLU:OE2	2.15	0.46
9:KD:341:PHE:HE1	9:KD:348:ASN:HB2	1.80	0.46
8:KE:207:GLU:OE2	8:KE:207:GLU:N	2.48	0.46
8:KE:395:PHE:HE2	8:KE:422:ARG:HB2	1.80	0.46
9:KJ:164:MET:N	9:KJ:197:ASP:OD1	2.28	0.46
9:KN:323:MET:HE2	9:KN:323:MET:HA	1.97	0.46
8:KO:288:VAL:HB	8:KO:327:ASP:OD2	2.16	0.46
9:KP:362:LYS:HD2	9:KP:362:LYS:C	2.39	0.46
17:L:34:THR:O	17:L:38:THR:OG1	2.33	0.46
21:L1:98:ARG:HH22	21:L1:102:ASN:N	2.13	0.46
9:LB:374:ILE:HG13	9:LB:378:PHE:HE2	1.80	0.46
9:LN:318:ARG:HD3	9:LN:358:PRO:HD3	1.96	0.46
17:M:207:LEU:HD13	17:M:252:PHE:HB2	1.98	0.46
17:M:214:GLN:H	17:M:214:GLN:HG2	1.47	0.46
8:MC:3:GLU:OE1	8:MC:64:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MC:93:ILE:HD11	8:MC:121:ARG:HG3	1.96	0.46
8:ME:392:ASP:C	8:ME:422:ARG:HH12	2.21	0.46
9:ML:276:ARG:NH2	31:Y:8:GLY:O	2.49	0.46
8:MM:357:TYR:CD2	23:P:26:ARG:HD3	2.51	0.46
15:N2:101:LYS:HD2	15:N2:101:LYS:HA	1.68	0.46
9:NB:324:LYS:HE3	8:NC:222:PRO:HG2	1.98	0.46
8:NE:136:LEU:H	8:NE:136:LEU:HD23	1.81	0.46
8:NE:288:VAL:HG22	8:NE:373:ARG:HH21	1.80	0.46
8:NG:311:LYS:H	8:NG:382:THR:HG22	1.81	0.46
9:NJ:328:GLU:HA	9:NJ:331:LEU:HG	1.98	0.46
8:NM:323:VAL:HG22	8:NM:373:ARG:CG	2.45	0.46
8:OE:338:LYS:HZ1	36:Y4:140:ALA:H	1.62	0.46
9:OH:120:VAL:HG11	9:OH:155:ILE:HD11	1.96	0.46
9:OH:376:GLU:HA	9:OH:379:LYS:HE3	1.96	0.46
8:OK:114:ILE:O	8:OK:118:VAL:HG22	2.16	0.46
8:OM:207:GLU:O	8:OM:210:TYR:HB2	2.15	0.46
9:ON:214:THR:HG22	9:ON:297:LYS:HE2	1.98	0.46
8:OO:7:ILE:HB	8:OO:137:ILE:HG22	1.97	0.46
26:P1:46:TYR:HE1	26:P1:56:TYR:HE2	1.63	0.46
17:P9:146:ARG:NH1	17:P9:166:ALA:H	2.13	0.46
9:PD:324:LYS:O	9:PD:328:GLU:N	2.48	0.46
9:PJ:323:MET:HG3	8:PK:224:TYR:CE1	2.50	0.46
8:PM:292:THR:HA	8:PM:295:CYS:SG	2.56	0.46
28:Q4:56:ARG:NH2	12:S8:238:ASP:OD2	2.46	0.46
9:QB:331:LEU:HG	8:QC:176:GLN:NE2	2.30	0.46
9:QB:347:ASN:O	8:QC:181:VAL:HG22	2.16	0.46
9:QD:139:LEU:HD12	9:QD:170:VAL:HA	1.98	0.46
8:QG:52:PHE:CE2	8:QG:243:ARG:HD3	2.51	0.46
9:QH:11:GLN:CD	9:QH:11:GLN:H	2.24	0.46
8:QI:172:TYR:HB2	8:QI:203:MET:HB2	1.97	0.46
9:QJ:209:ASP:HA	9:QJ:213:ARG:HH11	1.80	0.46
9:QJ:229:VAL:HG22	9:QJ:233:MET:SD	2.55	0.46
9:QJ:236:VAL:HG23	9:QJ:237:THR:HG23	1.97	0.46
9:QJ:255:VAL:HG21	8:QK:100:ALA:O	2.15	0.46
8:QK:179:THR:OG1	50:QK:501:GTP:O3'	2.26	0.46
8:QM:388:TRP:H	8:QM:388:TRP:CD1	2.33	0.46
11:R1:364:ASP:OD1	11:R1:368:LYS:HE3	2.15	0.46
11:R2:376:ASP:OD1	11:R2:376:ASP:N	2.48	0.46
11:R4:36:HIS:HA	11:R4:39:ARG:HH11	1.80	0.46
11:R4:250:THR:HA	11:R4:253:GLU:OE1	2.15	0.46
9:RD:28:HIS:CG	9:RD:47:ILE:HG13	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:RD:356:ILE:HD13	9:RD:356:ILE:HA	1.75	0.46
8:RE:203:MET:HE1	8:RE:267:PHE:HB3	1.97	0.46
9:RH:271:ALA:HB2	9:RH:365:ALA:HB3	1.97	0.46
8:RK:136:LEU:HG	8:RK:138:PHE:CZ	2.51	0.46
8:RK:429:GLU:O	8:RK:433:GLU:HG2	2.15	0.46
12:S1:122:VAL:HG22	30:V7:162:ARG:HH22	1.81	0.46
12:S6:266:ARG:HG3	12:S6:266:ARG:HH11	1.80	0.46
12:S8:114:ARG:CZ	12:S9:367:LYS:HB3	2.45	0.46
12:S9:391:ALA:HA	12:S9:394:LYS:HG3	1.98	0.46
12:S9:484:LEU:O	14:T1:403:ARG:NH2	2.48	0.46
8:SA:151:SER:HA	8:SA:193:THR:HG21	1.98	0.46
8:SE:188:ILE:HG13	8:SE:395:PHE:CG	2.51	0.46
8:SG:191:THR:HA	8:SG:194:THR:HG22	1.97	0.46
9:SH:139:LEU:HA	9:SH:145:SER:HB3	1.98	0.46
8:SI:377:MET:HE2	8:SI:379:SER:HB3	1.98	0.46
9:SN:375:GLN:HB3	9:SN:422:TYR:CE1	2.50	0.46
14:T0:233:ASN:N	14:T0:233:ASN:OD1	2.46	0.46
8:TA:233:GLN:HB3	8:TA:272:TYR:CE2	2.48	0.46
8:TC:270:ALA:O	8:TC:302:MET:HG2	2.16	0.46
8:TC:370:LYS:HG3	47:o:158:VAL:HG23	1.97	0.46
9:TF:344:TRP:H	9:TF:344:TRP:CD1	2.34	0.46
8:TG:260:VAL:HB	9:TH:397:TRP:HZ2	1.80	0.46
9:TH:45:GLU:OE2	9:TH:46:ARG:NH2	2.48	0.46
8:TK:108:TYR:HA	8:TK:112:LYS:HE3	1.97	0.46
9:TL:198:GLU:OE2	9:TL:200:TYR:OH	2.27	0.46
30:U0:210:ASN:O	30:U0:214:ASN:ND2	2.44	0.46
30:U6:123:ILE:HD12	30:U7:433:ARG:NH1	2.31	0.46
30:U8:140:ARG:HH22	30:U8:141:ASN:HB2	1.81	0.46
8:UA:114:ILE:O	8:UA:118:VAL:HG13	2.14	0.46
9:UB:20:PHE:CD1	9:UB:233:MET:HE2	2.50	0.46
9:UB:313:VAL:HB	9:UB:349:VAL:HG12	1.96	0.46
9:UD:170:VAL:HG11	9:UD:377:LEU:HD21	1.96	0.46
8:UE:130:THR:OG1	8:UE:131:GLY:N	2.48	0.46
9:UF:371:SER:O	9:UF:422:TYR:OH	2.29	0.46
8:UG:311:LYS:H	8:UG:382:THR:HG22	1.79	0.46
9:UJ:3:GLU:HB2	9:UJ:130:LEU:HD23	1.98	0.46
9:UL:167:PHE:CD1	9:UL:233:MET:HE2	2.51	0.46
9:UL:371:SER:O	9:UL:422:TYR:OH	2.28	0.46
8:UM:215:ARG:NH2	8:UM:299:ALA:O	2.48	0.46
8:UO:332:ILE:HD11	8:UO:353:VAL:HG21	1.96	0.46
30:V5:211:VAL:HG13	30:V5:343:PHE:HE1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V7:295:THR:O	30:V7:298:LYS:HG3	2.16	0.46
30:V7:399:ARG:NH2	30:V7:410:ASP:OD2	2.46	0.46
9:VD:245:GLN:NE2	9:VD:353:VAL:HB	2.27	0.46
8:VE:297:GLU:O	8:VE:301:GLN:NE2	2.38	0.46
8:VG:138:PHE:HA	8:VG:169:PHE:O	2.15	0.46
8:VI:219:ILE:HD12	8:VI:222:PRO:HG3	1.97	0.46
8:VK:111:GLY:O	8:VK:115:VAL:HG23	2.16	0.46
9:VN:114:ASP:O	9:VN:117:LEU:HD12	2.15	0.46
30:W0:186:CYS:HA	30:W0:189:GLN:NE2	2.31	0.46
30:W0:432:LEU:O	30:W0:436:GLU:HG3	2.16	0.46
30:W2:328:LEU:O	30:W2:332:MET:HG3	2.15	0.46
8:WA:23:LEU:HD12	8:WA:26:LEU:HD11	1.98	0.46
9:WD:286:VAL:HG11	9:WD:326:VAL:HG12	1.98	0.46
8:WE:258:ASN:ND2	8:WE:352:LYS:HD3	2.31	0.46
8:WE:339:ARG:HH21	8:WE:342:GLN:HG2	1.80	0.46
9:WJ:372:THR:HA	9:WJ:422:TYR:CE1	2.50	0.46
9:WN:376:GLU:O	9:WN:380:ARG:NH1	2.49	0.46
8:WO:274:PRO:HB2	8:WO:276:ILE:HD12	1.98	0.46
34:X8:238:GLU:H	34:X8:238:GLU:CD	2.22	0.46
35:XB:60:THR:HG22	35:XB:155:GLN:HG3	1.96	0.46
35:XB:75:PHE:HB3	35:XB:133:GLN:HE22	1.81	0.46
35:XC:172:TYR:HB2	35:XC:177:LEU:HD23	1.97	0.46
35:XE:87:PHE:H	35:XE:107:ASN:HD21	1.63	0.46
35:XH:178:PRO:HB2	35:XH:180:GLU:OE2	2.15	0.46
37:YD:97:PHE:HB3	37:YD:136:PRO:HB2	1.97	0.46
31:Z:432:ASN:HB3	31:Z:458:LEU:HD12	1.96	0.46
39:a:305:HIS:HA	39:a:308:LYS:HD2	1.98	0.46
40:a2:10:LYS:O	40:a2:13:ILE:HG23	2.15	0.46
40:a2:11:LEU:HD12	40:a2:39:VAL:HG23	1.97	0.46
41:b5:156:ARG:O	41:b5:159:GLU:HG3	2.16	0.46
39:c:194:MET:HE1	39:d:518:LYS:HG2	1.97	0.46
39:d:500:GLY:O	39:d:504:LYS:HG2	2.16	0.46
39:d:510:ARG:O	39:d:514:ILE:HG23	2.16	0.46
42:e:605:VAL:HG12	42:e:611:ILE:HG12	1.97	0.46
42:f:354:LYS:CG	42:f:373:PRO:HA	2.45	0.46
42:f:474:GLU:O	42:f:490:LEU:N	2.45	0.46
4:j1:130:GLU:HG2	4:j1:274:GLY:HA3	1.98	0.46
4:j1:303:PHE:CE1	4:j1:385:GLU:HG2	2.49	0.46
45:n:106:CYS:SG	45:n:107:ASN:N	2.89	0.46
47:o:203:ARG:HH12	47:o:206:VAL:HG21	1.80	0.46
2:2:409:PRO:HA	8:IM:372:GLN:HE22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:8:49:GLN:HB3	9:JH:320:ARG:CZ	2.45	0.46
5:8:50:CYS:O	5:8:52:TYR:N	2.46	0.46
7:A3:379:LYS:O	7:A3:383:ILE:HG13	2.15	0.46
8:AC:264:ARG:HG3	35:XB:117:PHE:CZ	2.51	0.46
9:AD:78:SER:OG	31:W:129:THR:O	2.24	0.46
8:AG:239:THR:HB	8:AG:243:ARG:NH1	2.31	0.46
8:AI:259:LEU:HD13	8:AI:316:CYS:SG	2.56	0.46
8:AI:386:GLU:N	8:AI:386:GLU:OE1	2.47	0.46
8:AK:221:ARG:HH22	22:M3:35:SER:H	1.64	0.46
11:B0:13:ARG:NH2	11:B0:16:ASP:OD1	2.48	0.46
11:B2:94:GLN:O	11:B2:97:GLU:HG2	2.16	0.46
11:B4:15:SER:O	11:B4:19:THR:OG1	2.25	0.46
9:BF:395:LEU:O	9:BF:399:THR:OG1	2.33	0.46
9:BJ:32:PRO:HD3	9:BJ:81:PHE:CE1	2.50	0.46
8:BK:80:THR:HG21	17:L:275:ILE:HG23	1.98	0.46
9:BL:20:PHE:HA	9:BL:230:SER:HB2	1.98	0.46
9:BN:330:MET:HE3	9:BN:349:VAL:HG11	1.97	0.46
12:C4:320:LYS:NZ	11:R4:249:GLN:HA	2.28	0.46
8:CC:27:GLU:OE2	8:CC:243:ARG:NH2	2.49	0.46
9:CL:173:PRO:HG2	9:CL:174:LYS:HD3	1.98	0.46
14:D2:179:GLU:O	14:D2:183:ILE:HG22	2.15	0.46
14:D3:365:ASN:OD1	14:D3:366:VAL:N	2.48	0.46
9:DB:358:PRO:HG2	9:DB:361:LEU:HB3	1.96	0.46
8:DC:154:MET:HE2	8:DC:154:MET:HA	1.98	0.46
8:DE:114:ILE:HD11	8:DE:117:LEU:HD23	1.98	0.46
8:DE:167:LEU:HD23	8:DE:202:PHE:HE2	1.81	0.46
9:DF:299:MET:HE3	9:DF:300:MET:N	2.31	0.46
8:DG:245:ASP:N	8:DG:245:ASP:OD1	2.46	0.46
8:DI:255:PHE:O	8:DI:259:LEU:HB2	2.16	0.46
9:DN:1:MET:N	9:DN:128:ASP:OD1	2.49	0.46
8:DQ:68:VAL:HG12	8:DQ:93:ILE:HB	1.98	0.46
8:EC:46:ASP:OD1	8:EC:46:ASP:N	2.47	0.46
8:EE:318:LEU:HB2	8:EE:376:CYS:HB3	1.97	0.46
8:EI:53:PHE:HB3	8:EI:61:HIS:HB3	1.98	0.46
8:EI:220:GLU:HG2	8:EI:221:ARG:HG2	1.98	0.46
8:EI:294:ALA:O	8:EI:300:ASN:ND2	2.49	0.46
8:EM:251:ASP:OD1	8:EM:252:LEU:N	2.47	0.46
8:EO:18:ASN:HD21	8:EO:78:VAL:HG22	1.80	0.46
9:FD:253:LEU:O	9:FD:257:MET:N	2.48	0.46
8:FE:54:SER:HB2	8:FE:128:LEU:HD21	1.97	0.46
8:FE:219:ILE:HD11	8:FE:367:ASP:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FE:230:LEU:HA	8:FE:233:GLN:NE2	2.30	0.46
9:FH:1:MET:SD	9:FH:2:ARG:N	2.88	0.46
9:FJ:379:LYS:HZ3	9:FJ:419:VAL:HB	1.81	0.46
9:FL:68:LEU:HB3	9:FL:96:GLY:HA2	1.96	0.46
8:FM:200:CYS:SG	8:FM:201:ALA:N	2.89	0.46
9:FN:91:VAL:HG13	36:Y2:59:LEU:HD22	1.97	0.46
8:FO:117:LEU:HD13	36:Y2:32:ILE:HD12	1.96	0.46
8:FO:153:LEU:HD12	8:FO:153:LEU:HA	1.79	0.46
9:GF:257:MET:SD	9:GF:312:THR:OG1	2.72	0.46
8:GG:252:LEU:HA	8:GG:255:PHE:CE1	2.51	0.46
8:GI:244:PHE:HB3	8:GI:358:GLN:OE1	2.16	0.46
8:GI:346:TRP:HZ2	8:GI:435:VAL:HG13	1.80	0.46
9:GJ:45:GLU:OE2	9:GJ:46:ARG:NE	2.46	0.46
8:GK:149:PHE:CD1	8:GK:152:LEU:HD11	2.50	0.46
8:GM:84:ARG:NH2	26:P2:65:LEU:H	2.14	0.46
9:HB:328:GLU:O	9:HB:332:ASN:N	2.33	0.46
9:HD:268:PRO:HG2	9:HD:300:MET:HE3	1.97	0.46
8:HI:90:GLU:O	8:HI:121:ARG:NH1	2.49	0.46
9:HN:20:PHE:CD1	9:HN:233:MET:HE3	2.51	0.46
8:HO:306:ASP:CG	8:HO:308:ARG:HE	2.21	0.46
9:IB:198:GLU:HA	9:IB:264:HIS:HB2	1.97	0.46
8:IC:104:ALA:CB	8:IC:411:GLU:HG2	2.46	0.46
9:IF:215:LEU:HD21	9:IF:273:LEU:HD12	1.97	0.46
9:IH:384:GLN:O	9:IH:384:GLN:NE2	2.47	0.46
9:IJ:305:PRO:HA	9:IJ:373:ALA:HB2	1.97	0.46
9:IJ:342:VAL:HG21	9:IJ:345:ILE:HD12	1.97	0.46
8:IK:88:HIS:CD2	9:JL:281:TYR:HB3	2.51	0.46
9:IL:161:ASP:OD2	9:IL:162:ARG:NE	2.49	0.46
8:IM:1:MET:SD	8:IM:50:ASN:HB3	2.56	0.46
9:IN:289:LEU:O	9:IN:293:MET:N	2.49	0.46
8:IO:111:GLY:O	8:IO:115:VAL:HG23	2.16	0.46
9:IP:146:GLY:O	9:IP:149:THR:OG1	2.33	0.46
19:J3:57:MET:HB3	19:J3:63:ILE:HD12	1.98	0.46
19:J3:116:LEU:HD23	19:J3:152:GLN:HB3	1.97	0.46
19:J4:83:PHE:H	8:OK:370:LYS:HE3	1.79	0.46
8:JE:338:LYS:CD	8:JE:341:ILE:H	2.28	0.46
9:JF:86:ARG:NH1	9:KD:277:GLY:O	2.48	0.46
8:JG:306:ASP:OD2	8:JG:308:ARG:NH2	2.48	0.46
8:JG:317:MET:HE1	8:JG:375:VAL:HG23	1.98	0.46
9:JJ:12:CYS:O	9:JJ:16:ILE:HG12	2.16	0.46
9:JJ:309:ARG:H	9:JJ:372:THR:HB	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JK:167:LEU:HD21	8:JK:256:GLN:HE21	1.81	0.46
8:JM:18:ASN:OD1	13:K3:316:GLN:NE2	2.41	0.46
8:JM:209:ILE:HD11	8:JM:302:MET:HB3	1.97	0.46
8:KA:49:PHE:HD2	8:KA:53:PHE:HB2	1.81	0.46
9:KB:149:THR:O	9:KB:191:GLN:NE2	2.49	0.46
9:KB:257:MET:SD	9:KB:314:ALA:HB2	2.56	0.46
8:KE:263:PRO:HG3	9:KF:396:HIS:CD2	2.51	0.46
8:KG:133:GLN:O	8:KG:164:LYS:NZ	2.48	0.46
9:KJ:207:LEU:HB2	9:KJ:225:LEU:HD23	1.96	0.46
8:KK:153:LEU:HD23	8:KK:153:LEU:HA	1.83	0.46
8:KM:56:THR:HG22	8:KM:60:LYS:H	1.81	0.46
8:KO:16:ILE:HD11	8:KO:171:ILE:HD11	1.98	0.46
8:LA:191:THR:HA	8:LA:194:THR:HG22	1.98	0.46
8:LA:262:TYR:OH	9:LB:391:ARG:O	2.30	0.46
9:LD:262:ARG:HB2	9:LD:263:LEU:HD12	1.98	0.46
8:LG:188:ILE:HG13	8:LG:395:PHE:CD1	2.50	0.46
9:LJ:330:MET:HE3	9:LJ:351:THR:HG22	1.98	0.46
9:MD:257:MET:HE2	9:MD:368:ILE:HG22	1.97	0.46
9:MF:31:ASP:OD2	9:MF:35:THR:OG1	2.34	0.46
9:MH:390:ARG:HE	45:m:39:THR:HG23	1.80	0.46
8:MI:311:LYS:HD3	8:MI:344:VAL:HG12	1.96	0.46
8:MK:279:GLU:CD	8:MK:279:GLU:H	2.23	0.46
9:MP:228:LEU:O	9:MP:232:THR:HG23	2.15	0.46
9:NB:117:LEU:O	9:NB:121:ARG:N	2.32	0.46
8:NC:107:HIS:HA	8:NC:152:LEU:HD23	1.98	0.46
8:NC:348:PRO:HD2	9:ND:388:MET:HE2	1.98	0.46
9:NF:35:THR:HA	9:NF:57:GLY:O	2.15	0.46
9:NJ:121:ARG:HH22	36:Y4:55:GLY:C	2.24	0.46
8:NK:2:ARG:NH2	9:NL:69:GLU:OE1	2.48	0.46
8:NK:118:VAL:O	8:NK:122:ILE:HG12	2.15	0.46
9:NL:139:LEU:HA	9:NL:145:SER:OG	2.16	0.46
9:NP:31:ASP:OD1	9:NP:35:THR:N	2.49	0.46
17:O7:234:MET:SD	17:O7:239:GLY:HA2	2.55	0.46
17:O8:52:PRO:HB3	27:P3:135:LEU:HG	1.98	0.46
9:OD:328:GLU:CD	36:Y4:148:MET:HE3	2.39	0.46
8:OE:345:ASP:N	8:OE:345:ASP:OD1	2.49	0.46
9:OF:285:THR:HB	9:OF:287:PRO:HD2	1.97	0.46
9:OF:344:TRP:HZ3	8:OG:403:ALA:HB2	1.81	0.46
8:OG:88:HIS:HD1	8:OG:90:GLU:H	1.64	0.46
9:OH:7:LEU:N	9:OH:134:GLN:O	2.49	0.46
9:OH:167:PHE:HA	9:OH:200:TYR:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OL:310:TYR:CD1	9:OL:371:SER:HB2	2.50	0.46
8:OM:5:ILE:HD12	8:OM:135:PHE:CE1	2.49	0.46
8:OM:313:MET:HE1	8:OM:382:THR:N	2.31	0.46
27:P5:178:PHE:N	11:R2:125:ASP:OD1	2.43	0.46
9:PD:306:ARG:HA	9:PD:340:TYR:CE1	2.50	0.46
9:PD:325:GLU:O	9:PD:329:GLN:N	2.33	0.46
8:PE:186:ASN:O	8:PE:190:THR:OG1	2.30	0.46
8:PE:311:LYS:HE3	8:PE:344:VAL:HA	1.97	0.46
9:PF:279:GLN:HA	9:PF:282:ARG:NH1	2.31	0.46
8:PI:5:ILE:HB	8:PI:135:PHE:HE2	1.80	0.46
9:PJ:20:PHE:CD1	9:PJ:233:MET:HE3	2.50	0.46
28:Q3:133:ARG:HG2	28:Q3:134:TRP:CD1	2.51	0.46
9:QB:361:LEU:HD12	9:QB:362:LYS:H	1.79	0.46
9:QN:248:ALA:HA	9:QN:252:LYS:HG3	1.98	0.46
9:QP:1:MET:HE3	9:QP:46:ARG:HD2	1.97	0.46
8:RC:326:LYS:HE3	9:RD:219:THR:HA	1.97	0.46
8:RE:203:MET:SD	8:RE:388:TRP:HZ2	2.38	0.46
9:RJ:257:MET:HE3	9:RJ:314:ALA:HB2	1.97	0.46
8:RK:216:ASN:OD1	8:RK:275:VAL:HG12	2.15	0.46
8:RM:219:ILE:HD11	8:RM:367:ASP:HB3	1.98	0.46
8:RO:166:LYS:N	8:RO:199:ASP:OD2	2.38	0.46
9:RP:73:MET:HA	9:RP:76:VAL:HB	1.97	0.46
12:S1:136:ARG:NH2	30:V7:150:GLY:HA3	2.31	0.46
12:S4:229:CYS:O	12:S4:233:MET:HG3	2.15	0.46
12:S9:424:VAL:HG12	12:S9:425:TYR:HD1	1.80	0.46
8:SC:11:GLN:HB2	8:SC:74:VAL:HG21	1.98	0.46
8:SC:338:LYS:HE2	8:SC:340:THR:HB	1.97	0.46
8:SE:188:ILE:HG12	8:SE:391:LEU:HD11	1.98	0.46
9:SH:35:THR:HG23	9:SH:58:LYS:NZ	2.30	0.46
9:SH:287:PRO:HB3	9:SH:329:GLN:NE2	2.31	0.46
9:SL:405:GLU:HB3	9:SL:406:MET:HE2	1.98	0.46
14:T2:332:GLN:NE2	14:T2:398:ALA:O	2.49	0.46
8:TA:272:TYR:HD1	8:TA:273:ALA:N	2.13	0.46
9:TD:363:MET:HE3	9:TD:364:SER:H	1.81	0.46
8:TG:125:LEU:HD23	8:TG:125:LEU:HA	1.85	0.46
8:TG:227:LEU:O	8:TG:231:ILE:HG12	2.14	0.46
8:TI:27:GLU:O	47:p:320:ARG:NH1	2.49	0.46
8:TK:107:HIS:HA	8:TK:152:LEU:HD23	1.97	0.46
9:TL:47:ILE:HG23	9:TL:51:TYR:CD1	2.51	0.46
25:U:496:ILE:HG22	25:U:498:VAL:HG13	1.98	0.46
30:U8:462:LEU:HD23	30:U8:462:LEU:HA	1.85	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U9:210:ASN:O	30:U9:214:ASN:ND2	2.49	0.46
8:UC:93:ILE:HD13	8:UC:117:LEU:HG	1.97	0.46
8:UC:285:GLN:HE22	8:UC:287:SER:HB3	1.79	0.46
9:UD:313:VAL:HG12	9:UD:349:VAL:HG13	1.97	0.46
9:UH:63:ALA:HB3	9:UH:85:PHE:CE1	2.51	0.46
9:UJ:407:GLU:HA	9:UJ:410:GLU:HG2	1.97	0.46
8:UK:417:GLU:HA	8:UK:420:GLU:HB3	1.98	0.46
9:UL:324:LYS:H	9:UL:324:LYS:HG2	1.49	0.46
30:V6:277:ILE:HD12	30:V7:391:MET:HE1	1.97	0.46
30:V7:177:LEU:HD23	30:V7:233:ALA:HB2	1.97	0.46
30:V7:195:LEU:HD21	30:V7:215:LEU:HB3	1.97	0.46
30:V8:156:LEU:HD23	30:V8:304:ILE:HD11	1.98	0.46
30:V8:224:CYS:HA	30:V8:227:ASP:OD2	2.15	0.46
30:V9:353:VAL:HB	30:V9:458:LYS:HZ1	1.81	0.46
8:VE:276:ILE:HG23	8:VE:280:LYS:HG3	1.97	0.46
9:VF:31:ASP:HB3	9:VF:37:HIS:CD2	2.51	0.46
9:VH:46:ARG:O	9:VH:49:VAL:HG12	2.16	0.46
8:VI:280:LYS:O	8:VI:284:GLU:HG2	2.16	0.46
9:VJ:187:LEU:O	9:VJ:191:GLN:NE2	2.48	0.46
9:VJ:322:SER:HB3	8:VK:221:ARG:CZ	2.46	0.46
31:W:144:ASP:HB3	33:X4:124:HIS:NE2	2.31	0.46
31:W:444:LYS:HE3	31:W:444:LYS:HB3	1.72	0.46
30:W2:153:LYS:HZ1	30:W2:257:LYS:HB3	1.80	0.46
30:W5:333:TRP:HZ2	30:W5:478:SER:HA	1.81	0.46
30:W5:473:ARG:HA	30:W5:476:PHE:HE1	1.81	0.46
8:WA:298:PRO:HA	8:WA:301:GLN:HG2	1.97	0.46
9:WB:266:PHE:CE1	9:WB:370:ASN:HB2	2.50	0.46
8:WC:3:GLU:HG2	8:WC:64:ARG:NH1	2.31	0.46
9:WD:22:GLU:HG2	9:WD:81:PHE:HB2	1.97	0.46
8:WG:130:THR:HA	37:YD:105:PHE:HE1	1.81	0.46
8:WK:339:ARG:HH21	8:WK:342:GLN:HG2	1.80	0.46
31:X:90:SER:C	31:X:92:LYS:H	2.24	0.46
33:X4:107:LEU:O	33:X4:109:GLN:NE2	2.36	0.46
34:X8:195:VAL:HA	34:X8:198:LEU:HG	1.97	0.46
35:XG:93:VAL:HA	35:XG:151:THR:HA	1.97	0.46
35:XH:155:GLN:OE1	35:XH:157:HIS:NE2	2.49	0.46
37:YA:89:TYR:OH	37:YA:118:MET:O	2.30	0.46
37:YB:76:ASN:N	37:YB:76:ASN:OD1	2.48	0.46
37:YH:138:LYS:HE2	37:YH:142:ASN:OD1	2.16	0.46
17:Z3:255:ARG:HA	17:Z3:255:ARG:CZ	2.46	0.46
40:a4:99:PRO:HG2	40:a4:102:GLU:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:a6:125:ASN:O	39:a6:129:GLN:HG2	2.16	0.46
41:b4:140:LEU:O	41:b4:144:GLN:HG3	2.15	0.46
39:c:106:PRO:HG3	43:k:252:ILE:HD12	1.96	0.46
42:e:530:GLU:OE1	42:e:535:SER:OG	2.31	0.46
42:g:338:ILE:HG21	42:g:605:VAL:HG11	1.96	0.46
43:i:194:GLU:O	43:i:198:GLN:HG2	2.16	0.46
46:i4:1475:ARG:O	46:i4:1479:ARG:HG2	2.15	0.46
43:j:120:LYS:HD3	43:j:121:PRO:HD2	1.97	0.46
4:j1:347:ALA:HA	4:j1:361:ARG:NH1	2.31	0.46
2:1:444:HIS:HE1	9:HB:52:ASN:HA	1.80	0.46
2:1:611:VAL:HA	2:1:615:LEU:O	2.16	0.46
2:2:501:SER:HA	6:N1:94:LYS:HA	1.98	0.46
4:6:164:PHE:HD2	30:V7:277:ILE:HD13	1.80	0.46
8:AA:279:GLU:HA	8:AA:282:TYR:CE2	2.51	0.46
9:AB:1:MET:C	8:AC:96:LYS:HZ1	2.24	0.46
9:AB:184:ASN:OD1	9:AB:398:TYR:OH	2.32	0.46
8:AG:296:PHE:HE1	8:AG:312:TYR:CE1	2.33	0.46
9:AP:148:GLY:O	9:AP:152:ILE:HG23	2.16	0.46
10:B:112:GLN:HE22	9:HH:80:PRO:HB3	1.81	0.46
10:B:242:GLN:NE2	8:GC:58:ALA:O	2.48	0.46
11:B0:39:ARG:HH12	11:B1:293:LEU:HA	1.81	0.46
11:B1:131:ASP:OD1	11:B1:131:ASP:N	2.49	0.46
11:B2:324:ARG:HB3	11:B2:328:GLU:HB2	1.97	0.46
9:BB:117:LEU:HA	9:BB:120:VAL:HG22	1.97	0.46
8:BE:262:TYR:HB2	8:BE:265:ILE:HD12	1.97	0.46
8:BG:1:MET:SD	8:BG:2:ARG:N	2.89	0.46
8:BK:58:ALA:HB1	31:Y:220:LYS:HE3	1.98	0.46
9:BL:44:LEU:HB2	9:BL:47:ILE:HD13	1.97	0.46
8:BO:317:MET:N	8:BO:317:MET:HE2	2.31	0.46
8:BO:358:GLN:HB2	31:Z:209:PRO:HB3	1.97	0.46
10:C:225:GLU:HA	10:C:228:GLN:NE2	2.31	0.46
8:CC:320:ARG:HD3	8:CC:360:PRO:HG3	1.98	0.46
9:CD:318:ARG:HD3	9:CD:358:PRO:HD3	1.98	0.46
8:CM:53:PHE:HB3	8:CM:61:HIS:HB3	1.98	0.46
9:CP:78:SER:OG	31:Z:280:ARG:HG3	2.14	0.46
9:DF:252:LYS:HG2	8:DG:100:ALA:HA	1.97	0.46
8:DG:60:LYS:HG2	8:DG:61:HIS:N	2.29	0.46
8:DI:236:SER:O	8:DI:243:ARG:NH1	2.48	0.46
8:DK:172:TYR:HB2	8:DK:203:MET:HB2	1.97	0.46
9:DL:129:CYS:HB3	8:DM:96:LYS:NZ	2.31	0.46
9:DL:156:ARG:HG3	9:DL:195:ASN:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DM:68:VAL:HG12	8:DM:93:ILE:HB	1.96	0.46
8:DM:151:SER:O	8:DM:155:GLU:HG2	2.16	0.46
8:DO:166:LYS:N	8:DO:199:ASP:OD2	2.47	0.46
9:DP:251:ARG:HE	9:DP:251:ARG:HB2	1.63	0.46
15:E:151:CYS:SG	15:E:164:TYR:HD1	2.39	0.46
8:EA:172:TYR:HE1	8:EA:203:MET:HE2	1.81	0.46
9:ED:213:ARG:HH21	9:ED:297:LYS:HD3	1.81	0.46
9:ED:253:LEU:O	9:ED:257:MET:HG2	2.15	0.46
8:EE:179:THR:OG1	50:EE:501:GTP:O3'	2.25	0.46
8:EG:68:VAL:HG12	8:EG:93:ILE:HB	1.98	0.46
8:EK:264:ARG:NH1	8:EK:431:ASP:OD2	2.49	0.46
9:EL:68:LEU:HD23	9:EL:143:THR:HG23	1.96	0.46
9:EL:72:THR:O	9:EL:75:SER:OG	2.23	0.46
9:EL:371:SER:O	9:EL:422:TYR:OH	2.31	0.46
9:FB:125:GLU:HB3	36:Y3:50:ALA:O	2.16	0.46
8:FK:317:MET:HE1	8:FK:375:VAL:HG23	1.98	0.46
9:FL:27:GLU:CD	9:FL:318:ARG:HH22	2.22	0.46
9:FL:125:GLU:OE2	9:FL:159:TYR:OH	2.32	0.46
9:FN:316:VAL:HG22	9:FN:352:ALA:HB3	1.98	0.46
8:FO:290:GLU:HA	8:FO:293:ASN:ND2	2.31	0.46
8:FO:317:MET:HE3	8:FO:317:MET:HA	1.97	0.46
16:G:76:PHE:CZ	8:GK:364:PRO:HB3	2.51	0.46
8:GC:172:TYR:HB2	8:GC:203:MET:HB3	1.98	0.46
8:GC:204:VAL:HG12	8:GC:302:MET:SD	2.56	0.46
8:GE:2:ARG:HB2	8:GE:242:LEU:HD21	1.97	0.46
9:GF:246:LEU:HA	8:GG:11:GLN:HE22	1.80	0.46
8:GG:433:GLU:O	8:GG:437:VAL:HG23	2.16	0.46
8:GM:188:ILE:O	8:GM:191:THR:OG1	2.34	0.46
8:GM:367:ASP:OD1	8:GM:368:LEU:N	2.49	0.46
8:GO:29:GLY:C	8:GO:36:MET:HE1	2.41	0.46
17:H:267:ARG:HA	17:H:267:ARG:HD3	1.67	0.46
8:HA:224:TYR:HD1	50:HA:501:GTP:C6	2.33	0.46
8:HC:259:LEU:O	8:HC:380:ASN:ND2	2.42	0.46
8:HC:345:ASP:N	8:HC:345:ASP:OD1	2.47	0.46
8:HI:287:SER:O	8:HI:291:ILE:HG22	2.15	0.46
8:HK:68:VAL:HA	8:HK:93:ILE:O	2.16	0.46
9:HL:196:THR:HG21	9:HL:199:THR:OG1	2.16	0.46
8:HM:394:LYS:HA	8:HM:397:LEU:HG	1.98	0.46
18:I1:78:ASP:OD2	9:JN:276:ARG:NH1	2.35	0.46
9:ID:236:VAL:HG23	9:ID:237:THR:HG23	1.98	0.46
9:IH:324:LYS:HG2	8:II:210:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:II:185:TYR:O	8:II:189:LEU:HD12	2.16	0.46
8:IK:4:CYS:HA	8:IK:134:GLY:O	2.16	0.46
17:J:212:LEU:HB3	17:J:215:ARG:HB2	1.96	0.46
9:JD:183:TYR:CZ	9:JD:388:MET:HE2	2.51	0.46
8:JG:185:TYR:CE1	8:JG:398:MET:HE3	2.51	0.46
8:JK:100:ALA:N	50:JK:501:GTP:O2G	2.49	0.46
8:JK:163:LYS:NZ	8:JK:164:LYS:HE2	2.31	0.46
8:JK:245:ASP:O	8:JK:356:ASN:ND2	2.49	0.46
8:JO:251:ASP:OD1	8:JO:252:LEU:N	2.45	0.46
8:JO:265:ILE:HD11	8:JO:435:VAL:HG21	1.97	0.46
9:JP:362:LYS:HA	9:JP:362:LYS:HE3	1.97	0.46
9:JP:386:THR:HG22	9:JP:390:ARG:HD3	1.97	0.46
8:JQ:68:VAL:HG13	8:JQ:93:ILE:HG23	1.98	0.46
20:K2:65:GLU:CD	20:K2:70:LEU:HD11	2.40	0.46
9:KB:285:THR:OG1	9:KB:286:VAL:N	2.48	0.46
9:KD:273:LEU:O	9:KD:292:GLN:NE2	2.41	0.46
8:KE:241:SER:HB3	8:KE:250:VAL:H	1.81	0.46
9:KF:344:TRP:H	9:KF:344:TRP:CD1	2.32	0.46
9:KJ:136:THR:HG22	9:KJ:167:PHE:HB2	1.98	0.46
9:KJ:233:MET:HE3	9:KJ:233:MET:HB2	1.54	0.46
9:KL:163:ILE:C	9:KL:164:MET:HE2	2.41	0.46
8:KM:290:GLU:HA	8:KM:293:ASN:HD21	1.80	0.46
8:KM:328:VAL:HG11	8:KM:353:VAL:HG11	1.98	0.46
8:KO:167:LEU:HD21	8:KO:256:GLN:HE21	1.81	0.46
8:KO:325:PRO:HA	8:KO:328:VAL:HB	1.98	0.46
9:LD:60:VAL:HG11	9:MD:281:TYR:HB3	1.98	0.46
8:LE:312:TYR:HA	8:LE:381:THR:HB	1.96	0.46
9:LH:203:ASP:OD1	9:LH:205:GLU:HG3	2.15	0.46
9:LH:257:MET:CE	9:LH:314:ALA:HB2	2.46	0.46
9:LJ:196:THR:HG21	9:LJ:199:THR:HG23	1.97	0.46
8:LK:6:SER:HB3	8:LK:8:HIS:NE2	2.31	0.46
9:LN:31:ASP:HB3	9:LN:37:HIS:CD2	2.51	0.46
9:LN:270:PHE:CD1	9:LN:272:PRO:HD2	2.51	0.46
8:LO:428:LEU:O	8:LO:431:ASP:HB3	2.16	0.46
8:MA:226:ASN:O	8:MA:230:LEU:HD23	2.16	0.46
9:MH:392:LYS:HB2	9:MH:392:LYS:HE3	1.71	0.46
9:MH:421:GLU:HA	9:MH:424:GLN:NE2	2.30	0.46
8:MI:319:TYR:HB2	8:MI:355:ILE:HD13	1.97	0.46
8:MK:385:ALA:HA	8:MK:388:TRP:HE3	1.81	0.46
9:ML:7:LEU:N	9:ML:134:GLN:O	2.47	0.46
9:MN:293:MET:SD	9:MN:367:PHE:HB2	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MO:47:ASP:HB2	31:Z:23:SER:HA	1.98	0.46
8:MO:176:GLN:NE2	43:k:138:THR:O	2.48	0.46
8:MO:201:ALA:O	8:MO:268:PRO:HD2	2.16	0.46
9:MP:122:LYS:HA	37:YH:28:VAL:HG11	1.97	0.46
9:MP:371:SER:O	9:MP:422:TYR:OH	2.29	0.46
17:N:14:PRO:O	17:N:40:ALA:HA	2.16	0.46
8:NA:121:ARG:NH2	8:NA:124:LYS:HE2	2.30	0.46
9:ND:166:THR:HG23	9:ND:199:THR:HG23	1.97	0.46
8:NE:202:PHE:HE1	8:NE:378:LEU:HD22	1.81	0.46
8:NG:317:MET:HB2	8:NG:353:VAL:HA	1.97	0.46
8:NI:4:CYS:HB2	8:NI:52:PHE:HE1	1.81	0.46
8:NI:172:TYR:N	8:NI:204:VAL:O	2.43	0.46
9:NJ:7:LEU:HD12	9:NJ:135:LEU:HB2	1.98	0.46
9:NJ:14:ASN:ND2	9:NJ:67:ASP:OD2	2.49	0.46
8:NK:52:PHE:CZ	8:NK:239:THR:HG21	2.50	0.46
9:NL:237:THR:HG22	9:NL:250:LEU:HD21	1.98	0.46
8:NM:28:HIS:CE1	8:NM:49:PHE:HA	2.51	0.46
8:NM:132:LEU:HD21	8:NM:164:LYS:HE2	1.97	0.46
8:NM:168:GLU:HB3	8:NM:200:CYS:O	2.16	0.46
9:NN:17:GLY:O	9:NN:21:TRP:N	2.42	0.46
9:NN:398:TYR:O	9:NN:403:MET:HE3	2.16	0.46
8:NO:21:TRP:HA	8:NO:24:TYR:HD2	1.81	0.46
24:O3:21:LEU:HD11	24:O3:29:PHE:HB3	1.98	0.46
9:OD:210:ILE:HD12	9:OD:300:MET:HE1	1.97	0.46
8:OM:11:GLN:HA	8:OM:74:VAL:HG11	1.96	0.46
9:PB:72:THR:O	9:PB:75:SER:OG	2.31	0.46
9:PD:285:THR:OG1	9:PD:286:VAL:N	2.48	0.46
8:PI:28:HIS:CE1	8:PI:49:PHE:HA	2.50	0.46
9:PJ:381:ILE:HA	9:PJ:384:GLN:HG2	1.98	0.46
8:PK:101:ASN:HA	8:PK:144:GLY:H	1.80	0.46
9:PN:266:PHE:C	9:PN:267:MET:HE2	2.41	0.46
9:QB:36:TYR:CZ	9:QB:44:LEU:HD22	2.51	0.46
8:QE:12:ALA:O	8:QE:16:ILE:HG12	2.15	0.46
8:QE:108:TYR:HA	8:QE:112:LYS:HE3	1.97	0.46
8:QE:217:LEU:HD13	8:QE:367:ASP:HB3	1.97	0.46
8:QE:395:PHE:HA	8:QE:398:MET:HG2	1.97	0.46
9:QH:86:ARG:HD3	9:QH:88:ASP:H	1.81	0.46
9:QH:358:PRO:HD2	9:QH:361:LEU:O	2.15	0.46
9:QH:388:MET:SD	9:QH:394:PHE:HE2	2.39	0.46
8:QI:30:ILE:HG13	8:QI:53:PHE:CE2	2.50	0.46
9:QL:4:ILE:HD12	9:QL:50:TYR:HE1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R3:327:VAL:HG23	11:R3:328:GLU:CD	2.41	0.46
8:RC:252:LEU:HA	8:RC:255:PHE:CE1	2.50	0.46
8:RE:321:GLY:HA3	8:RE:373:ARG:HA	1.97	0.46
8:RG:56:THR:HA	8:SE:285:GLN:HB2	1.98	0.46
9:RH:146:GLY:O	9:RH:149:THR:OG1	2.30	0.46
8:RK:171:ILE:HD12	8:RK:206:ASN:HD21	1.81	0.46
9:RL:223:GLY:O	9:RL:227:HIS:N	2.45	0.46
8:RM:345:ASP:N	8:RM:345:ASP:OD1	2.48	0.46
12:S1:133:GLN:NE2	30:V7:151:PHE:HA	2.31	0.46
12:S9:385:ALA:HB3	12:S9:434:LEU:HD11	1.98	0.46
8:SC:75:VAL:HG13	8:SC:79:ARG:HE	1.81	0.46
8:SC:298:PRO:HA	8:SC:301:GLN:HG2	1.97	0.46
9:SD:77:ARG:HG3	47:p:513:TYR:HE2	1.80	0.46
8:SE:88:HIS:O	8:SE:92:LEU:HG	2.16	0.46
9:SF:64:VAL:HG21	9:SF:120:VAL:HG12	1.98	0.46
9:SJ:31:ASP:OD1	9:SJ:35:THR:N	2.49	0.46
9:SJ:87:PRO:HD2	9:TJ:281:TYR:CE1	2.51	0.46
9:SJ:363:MET:HE3	9:SJ:363:MET:HA	1.98	0.46
14:T1:144:ALA:HA	14:T1:437:TYR:CZ	2.51	0.46
9:TB:132:GLY:HA2	9:TB:162:ARG:HB3	1.98	0.46
9:TD:276:ARG:HA	9:TD:276:ARG:HD3	1.71	0.46
9:TF:349:VAL:C	9:TF:350:LYS:HD2	2.40	0.46
8:TM:248:LEU:HB2	8:TM:355:ILE:HG22	1.96	0.46
25:U:393:SER:HA	25:U:396:ASN:HD22	1.79	0.46
30:U1:387:TYR:OH	30:U2:272:SER:O	2.27	0.46
30:U5:160:LEU:HD11	30:U5:247:GLN:HG3	1.97	0.46
30:U6:402:ARG:NH2	30:U6:408:CYS:H	2.14	0.46
30:U7:333:TRP:HZ3	30:U7:476:PHE:HB3	1.81	0.46
9:UF:362:LYS:HE2	9:UF:362:LYS:HB2	1.74	0.46
9:UH:344:TRP:H	9:UH:344:TRP:CD1	2.34	0.46
8:UK:88:HIS:O	8:UK:92:LEU:HD12	2.15	0.46
9:UL:1:MET:HG3	9:UL:2:ARG:H	1.80	0.46
8:UO:215:ARG:NH2	8:UO:300:ASN:OD1	2.46	0.46
30:V6:138:THR:HG23	30:V7:415:ARG:NH1	2.31	0.46
30:V6:270:LEU:HB2	30:V7:395:MET:HE1	1.97	0.46
30:V7:410:ASP:HB2	30:V7:412:PRO:HD2	1.96	0.46
8:VA:298:PRO:HA	8:VA:301:GLN:HG2	1.96	0.46
9:VD:313:VAL:HG13	9:VD:367:PHE:HE1	1.81	0.46
8:VG:7:ILE:HG22	8:VG:7:ILE:O	2.15	0.46
9:VJ:257:MET:SD	9:VJ:257:MET:N	2.89	0.46
9:VN:325:GLU:HA	9:VN:328:GLU:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:W:584:ASP:HA	31:W:587:MET:HB3	1.96	0.46
30:W2:165:THR:OG1	30:W2:166:GLU:OE1	2.33	0.46
30:W5:363:LYS:O	30:W5:367:GLU:HG2	2.16	0.46
30:W7:330:ASP:O	30:W7:334:LYS:HG3	2.15	0.46
30:W7:436:GLU:O	30:W7:440:THR:HG23	2.16	0.46
8:WI:147:SER:OG	8:WI:190:THR:OG1	2.18	0.46
8:WK:280:LYS:HA	8:WK:280:LYS:HD2	1.63	0.46
9:WP:151:LEU:HD23	9:WP:154:LYS:HE3	1.98	0.46
9:WP:377:LEU:HD12	9:WP:377:LEU:H	1.80	0.46
34:X8:202:LEU:O	34:X8:206:VAL:HG22	2.15	0.46
35:XD:3:LYS:H	35:XD:3:LYS:HG3	1.58	0.46
35:XE:175:ASP:OD1	35:XE:176:GLU:N	2.48	0.46
36:Y1:189:GLU:HG2	36:Y1:191:GLN:HB3	1.98	0.46
36:Y1:228:LEU:HB3	36:Y1:231:PRO:HD2	1.96	0.46
39:a:149:MET:HE2	39:a:152:LYS:HE2	1.98	0.46
40:a2:85:LYS:HD3	40:a2:86:TYR:CZ	2.50	0.46
40:a4:7:PHE:O	40:a4:8:MET:HE2	2.16	0.46
41:b1:408:GLN:H	44:h1:108:LYS:HZ1	1.63	0.46
41:b5:245:VAL:HG22	41:b5:248:MET:HB2	1.97	0.46
41:b5:359:GLY:O	41:b5:363:ARG:HG2	2.16	0.46
42:e:587:SER:OG	42:e:608:ASP:OD2	2.27	0.46
42:f:221:TYR:CE2	42:f:231:LYS:HG3	2.51	0.46
42:f:261:MET:SD	42:f:261:MET:N	2.77	0.46
42:f:342:PHE:O	43:j:11:TYR:OH	2.28	0.46
44:h1:107:LYS:HE3	44:h1:107:LYS:HB3	1.84	0.46
46:i2:1347:CYS:HB3	46:i2:1396:TYR:CZ	2.51	0.46
46:i3:1344:LEU:HD12	46:i3:1344:LEU:HA	1.70	0.46
43:j:246:LYS:HG2	43:j:247:HIS:HD2	1.80	0.46
45:m:49:LEU:HD12	45:m:55:ARG:HG2	1.98	0.46
2:1:617:LEU:HD22	2:1:621:LEU:HD23	1.98	0.46
2:2:270:TYR:O	2:2:274:PHE:HB3	2.14	0.46
3:3:241:ILE:O	3:3:244:GLN:HG3	2.15	0.46
4:6:191:TRP:CH2	4:6:195:LEU:HD21	2.51	0.46
5:8:96:LEU:HD23	9:JJ:40:SER:OG	2.16	0.46
5:8:134:PRO:HG3	9:JJ:320:ARG:HD2	1.98	0.46
8:AC:326:LYS:HD3	9:AD:220:PRO:HD2	1.98	0.46
9:AD:280:GLN:HB3	9:AD:281:TYR:CD1	2.51	0.46
9:AF:112:LEU:O	9:AF:116:VAL:HG22	2.16	0.46
9:AF:198:GLU:HB2	9:AF:266:PHE:CE1	2.50	0.46
9:AN:100:ASN:HB3	9:AN:103:LYS:HB2	1.98	0.46
9:AN:213:ARG:NH2	9:AN:214:THR:OG1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AN:245:GLN:HE22	33:X5:86:VAL:HG11	1.80	0.46
9:AP:156:ARG:HD2	9:AP:164:MET:HE2	1.98	0.46
11:B3:379:CYS:O	11:B3:383:THR:HG23	2.16	0.46
9:BD:309:ARG:H	9:BD:372:THR:HB	1.80	0.46
8:BE:111:GLY:O	8:BE:115:VAL:HG23	2.16	0.46
9:BH:232:THR:HG21	9:BH:268:PRO:HB2	1.97	0.46
8:BI:164:LYS:HD2	8:BI:164:LYS:HA	1.67	0.46
8:BK:258:ASN:OD1	9:BL:179:VAL:HG22	2.16	0.46
9:BP:37:HIS:HA	17:O7:315:ARG:HH12	1.81	0.46
12:C2:248:ARG:HB2	11:R2:416:ASN:HB3	1.98	0.46
9:CB:60:VAL:HG21	9:CB:86:ARG:HH21	1.81	0.46
8:CK:212:ILE:HD13	8:CK:300:ASN:HA	1.97	0.46
9:CL:372:THR:HG21	9:CL:426:GLN:HB2	1.98	0.46
9:CP:184:ASN:OD1	9:CP:398:TYR:OH	2.30	0.46
9:CP:299:MET:HE1	9:CP:305:PRO:HG3	1.96	0.46
14:D2:427:ARG:HG2	14:D2:431:MET:HE3	1.98	0.46
14:D4:118:GLN:HG2	14:D4:215:TRP:NE1	2.30	0.46
14:D4:293:LEU:HD23	14:D4:443:LEU:HD11	1.98	0.46
8:DC:138:PHE:CD1	8:DC:169:PHE:HB2	2.51	0.46
8:DC:405:VAL:HG13	8:DC:418:PHE:HE2	1.81	0.46
9:DF:337:ASN:HB3	9:DF:340:TYR:HD2	1.80	0.46
8:DG:156:ARG:O	8:DG:159:VAL:HG22	2.14	0.46
8:DG:201:ALA:O	8:DG:268:PRO:HD2	2.16	0.46
8:DK:202:PHE:CE1	8:DK:378:LEU:HD13	2.50	0.46
8:DK:269:LEU:HD22	8:DK:303:VAL:HG21	1.98	0.46
9:DN:321:MET:HE2	9:DN:321:MET:HB2	1.77	0.46
8:EA:316:CYS:HB3	8:EA:378:LEU:HB2	1.98	0.46
9:EB:372:THR:HA	9:EB:422:TYR:CE1	2.48	0.46
8:EG:14:VAL:HG22	8:EG:67:PHE:HD2	1.81	0.46
8:EG:47:ASP:OD1	8:EG:47:ASP:N	2.48	0.46
8:EI:298:PRO:HA	8:EI:301:GLN:HG2	1.97	0.46
8:EK:311:LYS:HD2	8:EK:436:GLY:HA2	1.98	0.46
9:EN:388:MET:N	9:EN:388:MET:HE2	2.30	0.46
8:FA:145:THR:OG1	8:FA:146:GLY:N	2.49	0.46
9:FF:324:LYS:HD3	8:FG:210:TYR:CG	2.51	0.46
8:FG:316:CYS:C	8:FG:317:MET:HE2	2.41	0.46
8:FI:12:ALA:O	8:FI:16:ILE:HG12	2.15	0.46
9:FL:257:MET:HE1	9:FL:313:VAL:C	2.41	0.46
9:FL:299:MET:HG3	9:FL:301:ALA:H	1.81	0.46
16:G:111:ARG:HH21	8:GM:97:GLU:CD	2.24	0.46
8:GA:79:ARG:HH22	8:GA:94:THR:HG21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GB:133:PHE:HD2	9:GB:164:MET:HE1	1.81	0.46
9:GB:412:GLU:HA	9:GB:415:MET:HB3	1.98	0.46
8:GC:50:ASN:O	8:GC:64:ARG:NH1	2.49	0.46
8:GC:335:ILE:HG23	8:GC:341:ILE:HG13	1.98	0.46
9:GD:114:ASP:N	9:GD:114:ASP:OD1	2.49	0.46
8:GG:105:ARG:NE	8:GG:110:ILE:HD11	2.31	0.46
9:GH:272:PRO:HG3	9:GH:364:SER:HA	1.97	0.46
9:GJ:306:ARG:NH2	36:Y2:126:ALA:HA	2.31	0.46
8:GK:215:ARG:NH2	8:GK:300:ASN:OD1	2.49	0.46
9:HB:133:PHE:HB2	9:HB:164:MET:HE1	1.98	0.46
9:HD:318:ARG:HD3	9:HD:358:PRO:HD3	1.98	0.46
8:HE:231:ILE:O	8:HE:235:VAL:HG23	2.15	0.46
9:HF:255:VAL:HA	8:HG:407:TRP:CZ2	2.51	0.46
8:HI:316:CYS:C	8:HI:317:MET:HE2	2.41	0.46
8:HM:49:PHE:CE1	8:HM:53:PHE:HB2	2.51	0.46
8:HM:306:ASP:OD1	8:HM:309:HIS:N	2.49	0.46
8:HM:317:MET:HE1	8:HM:377:MET:HG2	1.98	0.46
8:HO:132:LEU:HG	8:HO:164:LYS:HE2	1.98	0.46
8:HO:234:ILE:HD11	8:HO:272:TYR:HB2	1.98	0.46
8:HO:288:VAL:HG22	8:HO:373:ARG:HD3	1.98	0.46
8:HO:302:MET:N	8:HO:302:MET:SD	2.89	0.46
17:I:206:GLN:HE21	30:W4:305:ARG:HD2	1.80	0.46
8:IA:172:TYR:HE1	8:IA:391:LEU:HD21	1.81	0.46
8:IC:297:GLU:HG2	8:IC:299:ALA:H	1.81	0.46
8:IG:68:VAL:HG23	8:IG:93:ILE:HB	1.96	0.46
8:IK:6:SER:O	8:IK:65:ALA:HA	2.15	0.46
8:IK:207:GLU:HG2	8:IK:304:LYS:CE	2.40	0.46
9:IL:329:GLN:H	9:IL:329:GLN:HG3	1.54	0.46
9:IN:328:GLU:O	9:IN:332:ASN:HB2	2.16	0.46
9:IP:87:PRO:HD2	8:JQ:283:HIS:NE2	2.31	0.46
19:J4:180:PHE:O	19:J4:184:GLN:HG3	2.16	0.46
9:JB:319:GLY:HA2	9:JB:357:PRO:CD	2.44	0.46
9:JJ:330:MET:HE3	9:JJ:330:MET:HA	1.96	0.46
9:JL:287:PRO:HG3	9:JL:329:GLN:HE21	1.81	0.46
8:JO:184:PRO:O	8:JO:188:ILE:HG12	2.16	0.46
20:K1:18:GLN:O	20:K1:22:LEU:HD12	2.16	0.46
8:KA:262:TYR:OH	9:KB:391:ARG:O	2.34	0.46
8:KC:24:TYR:O	8:KC:27:GLU:HG2	2.16	0.46
9:KD:337:ASN:HB2	9:KD:340:TYR:CD2	2.46	0.46
8:KG:326:LYS:HD2	8:KG:327:ASP:N	2.31	0.46
8:KG:437:VAL:O	9:KH:391:ARG:NH2	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KI:277:SER:O	8:KI:281:ALA:N	2.48	0.46
8:KI:338:LYS:HZ3	8:KI:340:THR:HB	1.81	0.46
9:KJ:379:LYS:NZ	9:KJ:419:VAL:HB	2.31	0.46
8:KK:122:ILE:HD13	8:KK:122:ILE:HA	1.83	0.46
8:KK:167:LEU:HD23	8:KK:202:PHE:HZ	1.81	0.46
8:KM:271:THR:HB	8:KM:377:MET:HB3	1.97	0.46
9:KN:31:ASP:OD2	9:KN:37:HIS:NE2	2.49	0.46
9:LB:329:GLN:O	9:LB:333:VAL:HG13	2.15	0.46
8:LC:274:PRO:HG3	8:LC:286:LEU:HD13	1.97	0.46
9:LD:324:LYS:NZ	8:LE:210:TYR:O	2.49	0.46
8:LI:167:LEU:HD23	8:LI:202:PHE:HE2	1.80	0.46
8:LI:247:ALA:N	8:LI:357:TYR:HE2	2.14	0.46
17:M:24:TYR:HE2	17:M:42:LEU:HB3	1.80	0.46
9:MF:361:LEU:HD12	23:P:243:GLU:OE1	2.15	0.46
8:MO:70:LEU:HB2	8:MO:145:THR:HG21	1.98	0.46
9:NB:36:TYR:CZ	9:NB:44:LEU:HD22	2.51	0.46
8:NE:152:LEU:HD12	8:NE:153:LEU:N	2.31	0.46
8:NK:345:ASP:OD1	8:NK:346:TRP:N	2.49	0.46
9:NL:2:ARG:HH22	8:NM:72:PRO:HD2	1.80	0.46
9:NL:36:TYR:CG	9:NL:44:LEU:HD22	2.51	0.46
9:NL:101:TRP:HB3	9:NL:398:TYR:HE2	1.81	0.46
9:NL:310:TYR:N	9:NL:340:TYR:O	2.36	0.46
8:NM:14:VAL:HG12	8:NM:67:PHE:CD2	2.51	0.46
8:NM:56:THR:CA	8:OM:285:GLN:HB2	2.45	0.46
9:NN:102:ALA:HB2	9:NN:398:TYR:CD2	2.51	0.46
9:NN:313:VAL:HG23	9:NN:367:PHE:CE1	2.50	0.46
24:O1:118:ALA:HA	24:O1:121:MET:SD	2.56	0.46
25:O5:341:THR:HB	40:a4:151:PRO:HG2	1.98	0.46
9:OD:173:PRO:HD3	9:OD:380:ARG:CZ	2.46	0.46
9:OD:322:SER:OG	8:OE:222:PRO:O	2.32	0.46
9:OH:330:MET:HE1	9:OH:349:VAL:HG12	1.98	0.46
8:OK:390:ARG:HG3	8:OK:391:LEU:N	2.30	0.46
8:OM:296:PHE:HD2	36:Y5:218:PRO:HG2	1.81	0.46
8:OO:276:ILE:HG23	8:OO:280:LYS:HB3	1.98	0.46
27:P3:57:LYS:HD3	27:P3:58:PRO:HD2	1.97	0.46
8:PC:191:THR:HA	8:PC:194:THR:HG22	1.98	0.46
9:PF:182:PRO:HA	9:PF:185:ALA:HB3	1.98	0.46
9:PF:401:GLU:HB2	9:PF:403:MET:SD	2.55	0.46
9:PJ:7:LEU:HD23	9:PJ:64:VAL:HB	1.97	0.46
9:PL:309:ARG:HH11	9:PL:426:GLN:HG3	1.81	0.46
8:PM:416:GLY:O	8:PM:420:GLU:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PO:7:ILE:HB	8:PO:137:ILE:HG23	1.98	0.46
23:Q:281:GLN:O	23:Q:285:ILE:HG12	2.16	0.46
23:Q:357:LEU:HA	23:Q:361:ILE:HG22	1.97	0.46
9:QH:137:HIS:HB2	9:QH:144:GLY:HA3	1.97	0.46
9:QN:309:ARG:HD3	9:QN:342:VAL:HA	1.97	0.46
8:QO:167:LEU:HD21	8:QO:256:GLN:NE2	2.29	0.46
9:QP:267:MET:HE2	9:QP:299:MET:HE3	1.98	0.46
29:R:87:ARG:HE	29:R:87:ARG:HB2	1.55	0.46
11:R2:328:GLU:HG2	11:R3:182:THR:HG23	1.97	0.46
8:RC:211:ASP:O	8:RC:215:ARG:HG3	2.15	0.46
8:RE:339:ARG:NE	8:RE:339:ARG:O	2.49	0.46
9:RF:372:THR:HA	9:RF:422:TYR:CE1	2.50	0.46
8:RM:263:PRO:HG3	9:RN:396:HIS:CD2	2.50	0.46
12:S3:281:VAL:CG1	12:S4:394:LYS:HG3	2.46	0.46
12:S3:380:GLU:O	12:S3:384:LYS:HG3	2.16	0.46
12:S4:174:LEU:N	12:S4:322:ARG:HH22	2.14	0.46
12:S5:160:ILE:HG21	12:S5:258:LEU:HB2	1.98	0.46
12:S7:284:PHE:O	12:S7:287:VAL:HG12	2.16	0.46
8:SA:66:VAL:HG12	8:SA:68:VAL:HG13	1.98	0.46
9:SF:323:MET:HA	9:SF:326:VAL:HB	1.98	0.46
8:SG:6:SER:HB3	8:SG:8:HIS:CD2	2.51	0.46
9:SH:267:MET:SD	9:SH:267:MET:N	2.89	0.46
9:SJ:290:THR:HG21	9:SJ:329:GLN:HB3	1.96	0.46
8:SK:166:LYS:N	8:SK:199:ASP:OD2	2.41	0.46
8:SM:75:VAL:HG11	8:SM:92:LEU:HB3	1.98	0.46
8:SM:264:ARG:HH12	8:SM:428:LEU:HD22	1.81	0.46
14:T2:121:ILE:HD11	14:T2:212:GLU:HA	1.96	0.46
14:T2:164:HIS:HA	14:T2:166:ASP:N	2.31	0.46
8:TC:172:TYR:N	8:TC:204:VAL:O	2.39	0.46
8:TC:264:ARG:HH12	8:TC:428:LEU:HD22	1.80	0.46
9:TF:344:TRP:HZ3	8:TG:403:ALA:HB2	1.79	0.46
9:TF:350:LYS:HD3	8:TG:181:VAL:HG23	1.98	0.46
9:TH:318:ARG:HE	9:TH:358:PRO:HB3	1.81	0.46
9:TJ:143:THR:O	9:TJ:148:GLY:N	2.44	0.46
8:TM:227:LEU:O	8:TM:231:ILE:HG12	2.15	0.46
30:U0:197:ASN:O	30:U0:200:LYS:HB2	2.15	0.46
30:U1:159:GLU:OE2	30:U1:308:GLN:NE2	2.39	0.46
30:U7:391:MET:O	30:U7:395:MET:HG2	2.16	0.46
30:U8:378:LEU:O	30:U8:382:ILE:HG23	2.16	0.46
8:UA:311:LYS:H	8:UA:382:THR:HG22	1.81	0.46
9:UB:63:ALA:HB3	9:UB:85:PHE:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UD:60:VAL:HG21	9:UD:86:ARG:HH21	1.80	0.46
9:UJ:24:ILE:HD12	9:UJ:50:TYR:HD1	1.80	0.46
8:UK:51:THR:HG21	8:UK:243:ARG:HG2	1.98	0.46
8:UK:326:LYS:HG3	9:UL:220:PRO:HD2	1.98	0.46
30:V1:172:THR:HA	30:V1:175:ARG:HE	1.81	0.46
30:V4:463:CYS:SG	30:V4:468:LYS:NZ	2.89	0.46
8:VC:172:TYR:HB2	8:VC:203:MET:HB2	1.98	0.46
9:VF:310:TYR:CD1	9:VF:371:SER:HB2	2.51	0.46
8:VG:245:ASP:OD1	8:VG:245:ASP:N	2.38	0.46
8:VO:317:MET:HA	8:VO:317:MET:HE2	1.98	0.46
31:W:197:MET:HE3	31:W:197:MET:HA	1.98	0.46
31:W:387:GLU:OE1	31:W:387:GLU:N	2.49	0.46
30:W6:162:ARG:HH11	30:W6:311:ARG:HH22	1.63	0.46
9:WB:143:THR:O	9:WB:147:MET:N	2.49	0.46
8:WI:241:SER:OG	8:WI:250:VAL:N	2.43	0.46
9:WL:173:PRO:HG3	9:WL:380:ARG:HG2	1.98	0.46
8:WM:339:ARG:HH21	8:WM:342:GLN:HG2	1.81	0.46
9:WN:310:TYR:CD1	9:WN:371:SER:HB2	2.51	0.46
9:WP:47:ILE:HG12	9:WP:51:TYR:HB2	1.98	0.46
9:WP:167:PHE:HZ	9:WP:236:VAL:HG21	1.79	0.46
32:X1:212:CYS:SG	32:X1:214:THR:OG1	2.66	0.46
34:X8:246:GLU:OE2	34:X8:256:PRO:HG3	2.15	0.46
35:XD:82:ASN:HB3	35:XD:127:ASP:HA	1.97	0.46
17:Z3:211:ASN:CB	17:Z3:215:ARG:HE	2.29	0.46
39:a:141:ALA:O	39:a:145:ARG:HG3	2.15	0.46
39:a:170:ARG:HH12	42:f:545:SER:HB3	1.80	0.46
40:a3:29:SER:OG	40:a3:30:SER:N	2.48	0.46
39:b:336:ALA:O	39:b:339:MET:HE3	2.16	0.46
41:b4:182:ARG:HH11	41:b4:185:ARG:NH1	2.14	0.46
42:g:533:ASP:OD1	42:g:533:ASP:N	2.48	0.46
44:h3:87:SER:H	44:h3:95:ARG:HH22	1.63	0.46
46:i2:1344:LEU:HA	46:i2:1347:CYS:HB2	1.98	0.46
46:i4:1340:TRP:CE2	46:i4:1341:ARG:HG3	2.51	0.46
4:j1:204:ARG:NH2	4:j1:216:GLY:O	2.49	0.46
48:s:160:LYS:HB3	48:s:163:GLY:O	2.16	0.46
1:0:49:TYR:HD2	1:0:50:SER:N	2.12	0.46
1:7:40:LYS:NZ	1:7:42:TYR:OH	2.48	0.46
7:A5:173:LYS:HA	7:A5:176:ARG:HH21	1.81	0.46
9:AB:21:TRP:CE3	9:AB:24:ILE:HD11	2.51	0.46
9:AB:28:HIS:HA	9:AB:43:GLN:HG2	1.96	0.46
8:AE:18:ASN:O	8:AE:22:GLU:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AE:183:GLU:HA	8:AE:186:ASN:HD22	1.81	0.46
8:AE:279:GLU:HG2	8:AE:280:LYS:HG3	1.98	0.46
8:AE:346:TRP:O	9:AF:388:MET:HG3	2.16	0.46
9:AF:116:VAL:HG21	9:AF:151:LEU:HD21	1.98	0.46
9:AF:285:THR:OG1	9:AF:287:PRO:HD2	2.16	0.46
9:AP:8:GLN:HE21	9:AP:14:ASN:HA	1.81	0.46
9:AP:152:ILE:HD12	9:AP:195:ASN:O	2.16	0.46
11:B1:179:LYS:HE2	11:B1:179:LYS:HB2	1.72	0.46
11:B3:239:LEU:O	11:B3:243:ILE:HG13	2.16	0.46
11:B5:120:ARG:NH2	11:B5:131:ASP:OD2	2.49	0.46
9:BB:28:HIS:HA	9:BB:43:GLN:HB3	1.98	0.46
8:BC:317:MET:HE3	8:BC:351:PHE:HD1	1.81	0.46
9:BH:141:GLY:O	9:BH:145:SER:OG	2.34	0.46
8:BM:1:MET:HB3	8:BM:2:ARG:H	1.59	0.46
10:C:482:ARG:O	10:C:486:GLN:CB	2.46	0.46
12:C5:412:CYS:HA	12:C5:413:ARG:HH21	1.81	0.46
9:CB:323:MET:CE	8:CC:223:THR:HA	2.38	0.46
9:CD:117:LEU:HD23	9:CD:117:LEU:HA	1.76	0.46
8:CM:41:THR:HG22	8:CM:43:GLY:H	1.81	0.46
9:CN:344:TRP:H	9:CN:344:TRP:CD1	2.34	0.46
8:CQ:88:HIS:CE1	8:CQ:90:GLU:HB3	2.51	0.46
14:D1:376:ARG:HD2	14:D1:376:ARG:HA	1.72	0.46
14:D3:185:ASN:O	28:Q3:31:TYR:OH	2.34	0.46
8:DC:335:ILE:HD13	8:DC:338:LYS:NZ	2.31	0.46
9:DD:299:MET:HE2	9:DD:299:MET:HB2	1.59	0.46
9:DF:60:VAL:HA	9:DF:61:PRO:HD3	1.82	0.46
9:DH:21:TRP:O	9:DH:25:SER:OG	2.30	0.46
9:DH:372:THR:HG21	9:DH:426:GLN:HB2	1.97	0.46
9:DN:245:GLN:O	8:DO:11:GLN:NE2	2.49	0.46
8:EA:195:LEU:HD13	8:EA:428:LEU:HD11	1.98	0.46
8:EA:324:VAL:HG12	8:EA:326:LYS:H	1.81	0.46
9:EF:94:GLN:OE1	9:EF:94:GLN:N	2.48	0.46
8:EG:88:HIS:HE1	8:FG:280:LYS:HE2	1.81	0.46
9:EH:345:ILE:HA	8:EI:398:MET:HE1	1.98	0.46
9:FB:276:ARG:CZ	31:W:475:ASN:H	2.29	0.46
8:FE:6:SER:HB3	8:FE:8:HIS:CD2	2.51	0.46
8:FG:209:ILE:HD12	8:FG:209:ILE:H	1.81	0.46
9:FH:311:LEU:HG	9:FH:312:THR:HG23	1.97	0.46
8:FI:70:LEU:HB3	8:FI:98:ASP:HA	1.97	0.46
8:FK:5:ILE:HD13	8:FK:125:LEU:HB3	1.97	0.46
9:GD:86:ARG:HD2	9:HD:281:TYR:HD1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GG:14:VAL:HG12	8:GG:67:PHE:HD2	1.80	0.46
8:GG:113:GLU:OE1	8:GG:113:GLU:N	2.49	0.46
8:GM:241:SER:OG	8:GM:250:VAL:O	2.19	0.46
9:GN:5:VAL:HB	9:GN:133:PHE:HD1	1.80	0.46
8:GO:191:THR:O	8:GO:195:LEU:HB2	2.16	0.46
9:HB:273:LEU:O	9:HB:292:GLN:NE2	2.44	0.46
8:HC:311:LYS:HD3	8:HC:344:VAL:HG12	1.96	0.46
9:HD:159:TYR:HB3	9:HD:162:ARG:HG2	1.98	0.46
8:HG:427:ALA:HA	8:HG:430:LYS:HD2	1.98	0.46
8:HI:394:LYS:O	8:HI:398:MET:HG2	2.16	0.46
9:HL:267:MET:HB3	9:HL:299:MET:SD	2.56	0.46
8:HM:286:LEU:HA	8:HM:290:GLU:OE2	2.16	0.46
8:HO:388:TRP:HA	8:HO:391:LEU:HD23	1.97	0.46
18:I1:76:ARG:HB2	8:IM:84:ARG:HH22	1.81	0.46
8:IC:5:ILE:HG22	8:IC:64:ARG:HB2	1.98	0.46
9:ID:86:ARG:HD2	8:JE:283:HIS:ND1	2.31	0.46
9:ID:93:GLY:N	9:ID:112:LEU:HD11	2.31	0.46
9:IF:328:GLU:O	9:IF:332:ASN:N	2.48	0.46
9:IH:5:VAL:O	9:IH:134:GLN:N	2.49	0.46
8:II:51:THR:HG21	8:II:243:ARG:HA	1.97	0.46
9:IN:8:GLN:HE21	9:IN:14:ASN:HA	1.81	0.46
8:IO:316:CYS:C	8:IO:317:MET:HE2	2.41	0.46
19:J3:226:TYR:HD2	8:KK:412:GLY:HA3	1.80	0.46
19:J4:49:ARG:HA	9:NJ:56:GLY:HA2	1.98	0.46
8:JC:85:GLN:O	8:KA:283:HIS:NE2	2.48	0.46
8:JC:252:LEU:HD22	8:JC:255:PHE:HE1	1.80	0.46
8:JE:317:MET:HE2	8:JE:317:MET:HB2	1.82	0.46
8:JE:398:MET:HB2	8:JE:403:ALA:HB3	1.98	0.46
8:JG:2:ARG:NH2	8:JG:242:LEU:HG	2.31	0.46
8:JG:6:SER:HB2	8:JG:8:HIS:CD2	2.52	0.46
9:JJ:73:MET:CE	9:JJ:92:PHE:HB3	2.46	0.46
9:JL:355:ASP:O	9:JL:357:PRO:HD2	2.15	0.46
9:JN:6:HIS:CE1	9:JN:8:GLN:HE21	2.33	0.46
9:JN:182:PRO:HA	9:JN:381:ILE:HD11	1.98	0.46
9:JN:325:GLU:OE1	9:JN:325:GLU:N	2.41	0.46
13:K3:398:TRP:H	13:K3:398:TRP:CD1	2.33	0.46
8:KA:132:LEU:HD12	8:KA:133:GLN:N	2.30	0.46
8:KC:184:PRO:O	8:KC:188:ILE:HG12	2.16	0.46
9:KD:313:VAL:HG13	9:KD:367:PHE:HE1	1.81	0.46
9:KF:17:GLY:HA2	9:KF:20:PHE:HB3	1.97	0.46
9:KN:170:VAL:HG11	9:KN:377:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KN:344:TRP:CG	8:KO:401:LYS:HD2	2.51	0.46
8:LA:409:VAL:HG11	43:h:72:LEU:HD22	1.98	0.46
9:LB:313:VAL:HG13	9:LB:367:PHE:HE1	1.81	0.46
8:LC:377:MET:HG3	8:LC:378:LEU:N	2.29	0.46
8:LE:91:GLN:OE1	8:LE:121:ARG:NE	2.46	0.46
8:LG:2:ARG:O	8:LG:51:THR:HA	2.16	0.46
8:LI:246:GLY:HA2	8:LI:357:TYR:CD2	2.51	0.46
9:LP:150:LEU:HG	9:LP:154:LYS:HE2	1.96	0.46
17:M:214:GLN:OE1	17:M:226:PRO:HD3	2.16	0.46
8:MC:5:ILE:HD13	8:MC:125:LEU:HB3	1.98	0.46
8:MC:367:ASP:O	23:P:350:GLN:NE2	2.48	0.46
8:ME:2:ARG:HB2	8:ME:242:LEU:HD23	1.98	0.46
9:MF:245:GLN:O	8:MG:11:GLN:NE2	2.49	0.46
9:MH:180:VAL:HG23	9:MH:184:ASN:HD21	1.81	0.46
8:MK:202:PHE:O	8:MK:204:VAL:HG23	2.16	0.46
9:ML:4:ILE:HD12	9:ML:50:TYR:CZ	2.51	0.46
8:MM:302:MET:HE3	8:MM:302:MET:HB2	1.75	0.46
8:MO:107:HIS:HA	8:MO:152:LEU:HD23	1.97	0.46
9:MP:386:THR:HG23	45:i1:39:THR:HG21	1.98	0.46
8:NC:288:VAL:O	8:NC:292:THR:HG23	2.15	0.46
8:NE:6:SER:HB3	8:NE:8:HIS:NE2	2.31	0.46
8:NE:354:GLY:C	8:NE:355:ILE:HD13	2.41	0.46
9:NF:256:ASN:HB3	8:NG:181:VAL:HB	1.99	0.46
8:NG:168:GLU:HB3	8:NG:201:ALA:HA	1.98	0.46
8:NG:258:ASN:HD21	9:NH:178:THR:HG23	1.81	0.46
8:NI:111:GLY:O	8:NI:115:VAL:HG23	2.16	0.46
9:NJ:28:HIS:HD2	9:NJ:47:ILE:HG23	1.81	0.46
9:NJ:173:PRO:HG3	9:NJ:380:ARG:HH11	1.81	0.46
9:NJ:286:VAL:HG11	9:NJ:325:GLU:HB3	1.98	0.46
9:NL:68:LEU:HD12	9:NL:97:ALA:HB2	1.97	0.46
17:O8:99:GLU:OE1	17:O8:99:GLU:N	2.49	0.46
8:OA:28:HIS:HE1	8:OA:53:PHE:HE2	1.62	0.46
9:OB:164:MET:HE1	9:OB:166:THR:HB	1.98	0.46
8:OC:56:THR:HG23	8:OC:58:ALA:H	1.79	0.46
9:OD:170:VAL:HG11	9:OD:377:LEU:HD21	1.98	0.46
9:OH:10:GLY:O	9:OH:14:ASN:ND2	2.49	0.46
8:OM:326:LYS:HE3	9:ON:220:PRO:HG2	1.97	0.46
26:P2:59:ALA:O	26:P2:62:LYS:N	2.46	0.46
27:P7:170:ASN:OD1	11:R5:27:ASN:ND2	2.41	0.46
8:PC:141:PHE:HB2	8:PC:173:PRO:HD3	1.97	0.46
9:PP:7:LEU:N	9:PP:134:GLN:O	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Q:300:ARG:HG2	23:Q:300:ARG:HH11	1.81	0.46
28:Q1:10:ARG:NE	28:Q1:14:PRO:HD2	2.31	0.46
9:QB:137:HIS:NE2	9:QB:139:LEU:HD23	2.30	0.46
9:QB:249:ASP:H	9:QB:252:LYS:HB2	1.81	0.46
9:QD:116:VAL:O	9:QD:120:VAL:HG23	2.16	0.46
9:QD:271:ALA:HB1	9:QD:289:LEU:HD22	1.97	0.46
8:QE:221:ARG:NE	8:QE:221:ARG:HA	2.31	0.46
8:QE:312:TYR:HA	8:QE:381:THR:HB	1.98	0.46
9:QF:325:GLU:H	8:QG:221:ARG:HH22	1.63	0.46
9:QH:388:MET:HE3	9:QH:388:MET:HA	1.98	0.46
9:QJ:183:TYR:CZ	9:QJ:388:MET:HE2	2.51	0.46
9:QJ:259:PRO:HA	8:QK:404:PHE:HD1	1.80	0.46
11:R0:341:GLU:CD	11:R1:60:ASN:HD21	2.23	0.46
8:RC:6:SER:HB3	8:RC:8:HIS:CD2	2.51	0.46
8:RI:91:GLN:HA	8:RI:121:ARG:HD3	1.98	0.46
9:RJ:335:ASN:OD1	9:RJ:336:LYS:N	2.49	0.46
9:RJ:372:THR:HA	9:RJ:422:TYR:HE2	1.81	0.46
8:RM:184:PRO:HB2	8:RM:398:MET:HE1	1.98	0.46
8:RM:271:THR:HG22	8:RM:272:TYR:N	2.32	0.46
9:RN:219:THR:O	9:RN:219:THR:OG1	2.29	0.46
8:RO:345:ASP:N	8:RO:345:ASP:OD1	2.43	0.46
12:S2:138:THR:H	12:S2:138:THR:HG1	1.49	0.46
12:S8:351:ILE:HD13	12:S8:470:GLN:HG3	1.97	0.46
12:S9:383:LYS:O	12:S9:386:ILE:HG13	2.16	0.46
8:SA:147:SER:OG	8:SA:190:THR:OG1	2.27	0.46
8:SG:254:GLU:HG2	9:SH:98:GLY:HA2	1.98	0.46
9:SH:8:GLN:HE21	9:SH:14:ASN:HA	1.81	0.46
9:SH:31:ASP:OD1	9:SH:35:THR:N	2.49	0.46
9:SH:305:PRO:HA	9:SH:373:ALA:HB2	1.97	0.46
8:SM:124:LYS:HA	8:SM:124:LYS:HD3	1.85	0.46
8:SM:239:THR:O	8:SM:243:ARG:HG3	2.16	0.46
14:T0:243:HIS:HE1	14:T1:358:TYR:HB2	1.81	0.46
14:T2:266:LEU:HD11	30:W0:199:GLU:HB3	1.98	0.46
14:T3:107:LEU:HD13	14:T3:225:ASP:HB3	1.96	0.46
14:T4:73:TYR:HA	14:T4:76:ARG:NH1	2.31	0.46
8:TE:317:MET:HE1	8:TE:377:MET:HB2	1.98	0.46
8:TE:319:TYR:HB3	8:TE:323:VAL:HG11	1.98	0.46
8:TG:85:GLN:O	8:UG:283:HIS:NE2	2.49	0.46
8:TG:360:PRO:O	8:TG:370:LYS:NZ	2.39	0.46
9:TH:73:MET:HE2	9:TH:92:PHE:HB2	1.98	0.46
8:TI:288:VAL:HA	8:TI:291:ILE:HG12	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TJ:258:VAL:HB	8:TK:407:TRP:HZ2	1.81	0.46
8:TM:20:CYS:O	8:TM:23:LEU:HD12	2.15	0.46
30:U1:378:LEU:HD23	30:U1:434:LEU:HA	1.98	0.46
30:U6:80:PRO:HA	30:U6:83:ARG:HG3	1.97	0.46
30:U6:457:ILE:O	30:U6:461:THR:OG1	2.28	0.46
30:U7:289:THR:HG22	30:U8:407:LEU:HG	1.98	0.46
30:U8:101:LEU:HA	30:U8:104:ARG:NE	2.30	0.46
30:U9:403:PRO:HB2	30:U9:404:ASN:OD1	2.16	0.46
9:UB:371:SER:O	9:UB:422:TYR:OH	2.30	0.46
9:UD:70:PRO:HB3	9:UD:92:PHE:HE1	1.81	0.46
8:UE:276:ILE:HD11	8:UE:280:LYS:HB3	1.98	0.46
9:UH:1:MET:HG3	9:UH:2:ARG:N	2.30	0.46
9:UH:375:GLN:HA	9:UH:378:PHE:HD2	1.81	0.46
9:UJ:6:HIS:CD2	9:UJ:21:TRP:HE1	2.34	0.46
9:UJ:23:VAL:HG11	9:UJ:230:SER:HB3	1.98	0.46
8:UM:277:SER:H	8:UM:280:LYS:HD3	1.81	0.46
25:V:133:VAL:HG12	25:V:148:LEU:HB3	1.98	0.46
25:V:408:ASP:C	25:V:412:MET:HE2	2.41	0.46
8:VC:123:ARG:HH11	8:VC:127:ASP:CG	2.24	0.46
8:VC:297:GLU:O	8:VC:301:GLN:NE2	2.35	0.46
9:VD:271:ALA:HB1	9:VD:289:LEU:HD22	1.98	0.46
9:VD:325:GLU:H	8:VE:221:ARG:NH1	2.14	0.46
9:VF:257:MET:HE1	9:VF:314:ALA:HB2	1.98	0.46
8:VG:269:LEU:HD22	8:VG:303:VAL:HG21	1.98	0.46
9:VH:131:GLN:HB3	9:VH:250:LEU:HD21	1.98	0.46
9:VJ:86:ARG:HG2	9:VJ:88:ASP:H	1.79	0.46
9:VJ:256:ASN:HB3	9:VJ:350:LYS:HZ2	1.80	0.46
9:VJ:362:LYS:HD2	9:VJ:363:MET:N	2.31	0.46
8:VK:186:ASN:O	8:VK:190:THR:OG1	2.27	0.46
8:VO:245:ASP:N	8:VO:245:ASP:OD1	2.49	0.46
31:W:110:ASP:OD2	33:X4:112:SER:N	2.36	0.46
31:W:587:MET:HA	31:W:594:LEU:HD21	1.97	0.46
9:WB:244:GLY:HA3	9:WB:354:CYS:HA	1.98	0.46
9:WD:374:ILE:HD12	9:WD:374:ILE:HA	1.85	0.46
8:WE:345:ASP:N	8:WE:345:ASP:OD1	2.42	0.46
8:WI:292:THR:HA	8:WI:295:CYS:SG	2.56	0.46
9:WN:1:MET:HA	8:WO:96:LYS:HZ2	1.80	0.46
8:WO:235:VAL:O	8:WO:239:THR:HG23	2.16	0.46
9:WP:64:VAL:HG21	9:WP:120:VAL:HG12	1.96	0.46
9:WP:122:LYS:HD3	37:YH:197:TYR:HD1	1.81	0.46
33:X4:161:GLY:HA2	33:X4:165:TRP:CZ2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:X8:80:GLU:HG3	34:X8:81:VAL:O	2.15	0.46
35:XA:140:THR:HB	35:XA:146:THR:HG23	1.98	0.46
35:XB:77:VAL:HG22	35:XB:133:GLN:OE1	2.16	0.46
35:XB:146:THR:OG1	35:XB:147:ASN:N	2.49	0.46
35:XC:94:LEU:HB2	35:XC:152:LEU:HD21	1.97	0.46
35:XG:146:THR:OG1	35:XG:147:ASN:N	2.49	0.46
31:Y:358:GLU:H	31:Y:358:GLU:CD	2.18	0.46
31:Y:458:LEU:HA	31:Y:458:LEU:HD23	1.82	0.46
36:Y0:49:PRO:HB2	36:Y0:51:TYR:CE1	2.51	0.46
36:Y1:191:GLN:OE1	36:Y1:192:VAL:HG13	2.16	0.46
41:b2:317:ASN:O	41:b2:321:ILE:HG12	2.16	0.46
41:b4:211:ARG:O	41:b4:215:LYS:HG2	2.15	0.46
41:b5:213:MET:HE2	41:b5:213:MET:HA	1.98	0.46
42:f:31:LYS:HZ2	42:f:70:VAL:HG13	1.81	0.46
46:i2:1443:ILE:O	46:i2:1446:LYS:N	2.48	0.46
46:i3:1339:CYS:O	46:i3:1343:LEU:HG	2.16	0.46
4:j1:19:PRO:HA	4:j1:68:ARG:NH2	2.31	0.46
47:p:342:ILE:O	47:p:346:ILE:HG13	2.16	0.46
48:s:154:ASN:HB2	48:s:157:TYR:CE2	2.51	0.46
2:1:517:LYS:N	8:IE:219:ILE:HD11	2.31	0.45
2:2:496:GLY:HA2	4:j1:368:LYS:HD3	1.98	0.45
3:3:197:GLU:OE2	16:G:61:LYS:NZ	2.49	0.45
3:3:328:LYS:HE2	3:3:332:ARG:HH21	1.81	0.45
4:6:129:ILE:HD12	4:6:129:ILE:H	1.80	0.45
7:A2:152:ARG:HA	7:A2:155:GLU:OE2	2.16	0.45
7:A3:21:LYS:HB3	7:A3:21:LYS:HE3	1.73	0.45
9:AB:325:GLU:HA	9:AB:328:GLU:OE1	2.16	0.45
9:AF:3:GLU:HG2	9:AF:130:LEU:HA	1.97	0.45
9:AJ:131:GLN:HA	9:AJ:162:ARG:HH21	1.80	0.45
8:AK:210:TYR:CE1	8:AK:227:LEU:HD21	2.49	0.45
8:AO:1:MET:SD	8:AO:2:ARG:N	2.89	0.45
11:B4:263:PHE:CZ	11:B4:267:LYS:HD2	2.51	0.45
9:BB:32:PRO:HB3	9:BB:81:PHE:HA	1.98	0.45
9:BB:309:ARG:NH2	9:BB:339:SER:O	2.49	0.45
8:BC:386:GLU:OE1	8:BC:386:GLU:N	2.48	0.45
8:BE:150:ALA:O	8:BE:154:MET:HG3	2.16	0.45
9:BF:87:PRO:HD3	9:CF:281:TYR:CD2	2.51	0.45
9:BN:165:ASN:OD1	9:BN:198:GLU:HB2	2.16	0.45
8:BO:263:PRO:HG3	9:BP:396:HIS:CG	2.51	0.45
12:C1:288:GLU:OE1	12:C1:288:GLU:N	2.33	0.45
12:C4:337:TRP:HD1	12:C4:480:TYR:CD1	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:271:THR:HB	8:CC:377:MET:HB3	1.98	0.45
8:CC:322:ASP:OD1	8:CC:372:GLN:HB3	2.15	0.45
9:CD:58:LYS:HE3	9:CD:58:LYS:HB3	1.65	0.45
9:CD:66:VAL:HA	9:CD:91:VAL:O	2.16	0.45
8:CM:107:HIS:HA	8:CM:152:LEU:HD23	1.98	0.45
8:CM:324:VAL:O	8:CM:328:VAL:HG23	2.16	0.45
9:CN:293:MET:HE3	9:CN:367:PHE:HB2	1.98	0.45
8:DI:265:ILE:HD11	8:DI:435:VAL:HG21	1.98	0.45
8:DK:385:ALA:HA	8:DK:388:TRP:CE3	2.51	0.45
9:DL:123:GLU:O	9:DL:126:SER:OG	2.28	0.45
9:DN:31:ASP:OD1	9:DN:35:THR:N	2.49	0.45
8:DO:345:ASP:N	8:DO:345:ASP:OD1	2.48	0.45
9:DP:36:TYR:CZ	9:DP:44:LEU:HD22	2.51	0.45
9:DP:67:ASP:HA	9:DP:143:THR:HG21	1.99	0.45
9:DP:337:ASN:HB3	9:DP:340:TYR:HD2	1.81	0.45
8:EK:70:LEU:HB3	8:EK:98:ASP:HA	1.98	0.45
8:EM:331:ALA:O	8:EM:335:ILE:HG23	2.16	0.45
15:F:114:VAL:HG11	15:F:165:LEU:HD21	1.98	0.45
8:FA:250:VAL:HG23	8:FA:254:GLU:HB2	1.98	0.45
8:FC:56:THR:HA	8:GC:285:GLN:HB2	1.99	0.45
8:FC:56:THR:HG22	8:GC:285:GLN:HB2	1.98	0.45
8:FG:91:GLN:HA	8:FG:121:ARG:HH12	1.81	0.45
8:FG:123:ARG:HH21	36:Y2:180:PRO:HD3	1.82	0.45
8:FI:262:TYR:OH	9:FJ:391:ARG:O	2.33	0.45
9:FL:372:THR:HG21	9:FL:426:GLN:HB2	1.97	0.45
8:FM:201:ALA:O	8:FM:268:PRO:HD2	2.16	0.45
8:FO:7:ILE:HB	8:FO:137:ILE:HG23	1.98	0.45
8:GE:271:THR:HB	8:GE:377:MET:HB3	1.97	0.45
8:GG:153:LEU:O	8:GG:157:LEU:HB2	2.15	0.45
9:GH:114:ASP:OD1	9:GH:115:SER:N	2.49	0.45
8:GI:1:MET:SD	8:GI:2:ARG:N	2.80	0.45
9:GJ:112:LEU:HB2	9:GJ:147:MET:HE1	1.97	0.45
9:GL:276:ARG:HH22	26:P2:9:LEU:H	1.64	0.45
9:GN:324:LYS:NZ	8:GO:214:ARG:HD2	2.31	0.45
9:HB:4:ILE:HB	9:HB:50:TYR:CE2	2.48	0.45
8:HC:258:ASN:CG	8:HC:352:LYS:HG3	2.42	0.45
9:HD:8:GLN:HE21	9:HD:14:ASN:HA	1.80	0.45
8:HE:49:PHE:HB2	8:HE:53:PHE:HB2	1.98	0.45
9:HF:146:GLY:O	9:HF:149:THR:OG1	2.25	0.45
8:HI:417:GLU:OE1	8:HI:417:GLU:N	2.49	0.45
8:HM:417:GLU:N	8:HM:417:GLU:OE1	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:I:225:VAL:HG11	17:I:240:VAL:HG22	1.98	0.45
9:ID:321:MET:HG3	9:ID:363:MET:HE2	1.98	0.45
9:IF:147:MET:O	9:IF:151:LEU:N	2.44	0.45
9:IF:170:VAL:HG21	9:IF:377:LEU:HD11	1.98	0.45
8:IG:114:ILE:O	8:IG:118:VAL:HG12	2.15	0.45
9:IH:133:PHE:HB2	9:IH:164:MET:SD	2.56	0.45
8:II:422:ARG:HH12	8:II:426:ALA:HB2	1.81	0.45
9:IP:54:ALA:N	9:IP:58:LYS:O	2.45	0.45
9:IP:62:ARG:HG2	9:IP:123:GLU:HG2	1.98	0.45
19:J2:187:TYR:CE1	9:OF:279:GLN:HG3	2.51	0.45
19:J3:33:ARG:HH11	19:J3:81:ILE:HA	1.81	0.45
19:J3:78:LEU:HD21	8:OG:279:GLU:HG3	1.97	0.45
19:J4:201:ALA:HA	19:J4:204:MET:SD	2.56	0.45
19:J5:103:TRP:NE1	9:OP:284:LEU:HD11	2.25	0.45
9:JF:64:VAL:HG21	9:JF:120:VAL:HG12	1.99	0.45
9:JH:247:ASN:O	9:JH:252:LYS:NZ	2.36	0.45
8:JI:21:TRP:CZ3	8:JI:63:PRO:HB3	2.52	0.45
9:JP:388:MET:HE3	9:JP:388:MET:HB2	1.86	0.45
8:JQ:203:MET:HE1	8:JQ:267:PHE:CD1	2.49	0.45
20:K1:28:LYS:HA	20:K1:31:ARG:HD3	1.98	0.45
8:KA:422:ARG:HH12	8:KA:426:ALA:HB2	1.81	0.45
9:KB:60:VAL:HG21	9:KB:86:ARG:HH21	1.80	0.45
8:KC:10:GLY:O	8:KC:14:VAL:HG23	2.15	0.45
8:KE:1:MET:SD	8:KE:50:ASN:ND2	2.84	0.45
8:KE:205:ASP:HB3	8:KE:207:GLU:OE2	2.16	0.45
8:KG:127:ASP:OD2	8:LG:293:ASN:ND2	2.50	0.45
9:KH:121:ARG:O	9:KH:125:GLU:HG2	2.16	0.45
9:KH:255:VAL:HA	8:KI:407:TRP:CE2	2.50	0.45
8:KI:191:THR:HG21	8:KI:388:TRP:CH2	2.47	0.45
9:KL:5:VAL:HG22	9:KL:62:ARG:HD2	1.99	0.45
9:KL:197:ASP:OD1	9:KL:197:ASP:N	2.49	0.45
8:LA:98:ASP:OD1	8:LA:98:ASP:N	2.49	0.45
8:LA:320:ARG:HD3	8:LA:360:PRO:HG3	1.99	0.45
8:LC:16:ILE:HD13	8:LC:231:ILE:HG21	1.98	0.45
8:LC:370:LYS:HZ1	29:R:97:PHE:HB3	1.80	0.45
9:LD:151:LEU:O	9:LD:155:ILE:HG22	2.15	0.45
8:LE:145:THR:OG1	50:LE:501:GTP:O1G	2.27	0.45
8:LM:149:PHE:CD1	8:LM:152:LEU:HD11	2.51	0.45
8:LM:202:PHE:O	8:LM:204:VAL:HG13	2.16	0.45
9:LN:285:THR:HB	9:LN:287:PRO:HD2	1.97	0.45
22:M4:164:LEU:HD23	22:M4:164:LEU:HA	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:ME:168:GLU:OE2	8:ME:170:ALA:HB2	2.16	0.45
9:MF:358:PRO:HG2	9:MF:361:LEU:HD23	1.98	0.45
8:MK:60:LYS:HE2	8:MK:60:LYS:HB2	1.59	0.45
8:MK:175:PRO:O	8:MK:394:LYS:NZ	2.49	0.45
9:MN:107:THR:HB	9:MN:108:GLU:OE2	2.15	0.45
8:MO:215:ARG:NH2	8:MO:299:ALA:O	2.49	0.45
9:MP:362:LYS:HG2	9:MP:363:MET:HG3	1.97	0.45
8:NC:122:ILE:HD11	8:NC:135:PHE:CZ	2.51	0.45
8:NE:317:MET:HE2	8:NE:377:MET:HE1	1.98	0.45
9:NF:335:ASN:HB2	9:NF:336:LYS:HZ2	1.81	0.45
9:NH:31:ASP:OD1	9:NH:35:THR:N	2.49	0.45
9:NH:105:HIS:HD2	9:NH:150:LEU:HB2	1.81	0.45
8:NI:30:ILE:HD12	8:NI:61:HIS:CD2	2.51	0.45
9:NL:55:THR:HG22	9:OL:283:ALA:HA	1.97	0.45
8:NM:49:PHE:HB2	8:NM:61:HIS:ND1	2.31	0.45
9:NN:237:THR:HG22	9:NN:250:LEU:HD21	1.97	0.45
9:NN:257:MET:HE2	9:NN:368:ILE:HG22	1.98	0.45
8:NO:136:LEU:HD12	8:NO:167:LEU:HD11	1.98	0.45
9:NP:161:ASP:OD2	9:NP:162:ARG:NH1	2.47	0.45
24:O1:149:TRP:O	24:O1:153:ILE:HG13	2.16	0.45
24:O2:84:PHE:HB3	24:O2:155:TYR:CE2	2.51	0.45
8:OA:217:LEU:HD21	8:OA:275:VAL:HB	1.97	0.45
9:OD:306:ARG:HD2	9:OD:306:ARG:O	2.15	0.45
8:OE:207:GLU:O	8:OE:210:TYR:HB2	2.16	0.45
9:OH:5:VAL:HB	9:OH:133:PHE:HD1	1.81	0.45
9:OJ:36:TYR:HD2	9:OJ:59:TYR:HH	1.59	0.45
9:OJ:313:VAL:O	9:OJ:349:VAL:HA	2.16	0.45
9:OL:344:TRP:H	9:OL:344:TRP:CD1	2.34	0.45
26:P2:86:TRP:HZ3	26:P2:95:PRO:HB3	1.81	0.45
27:P3:53:PHE:O	27:P3:55:GLN:NE2	2.49	0.45
9:PB:7:LEU:N	9:PB:134:GLN:O	2.48	0.45
8:PC:17:GLY:HA2	8:PC:20:CYS:SG	2.56	0.45
8:PC:25:CYS:O	8:PC:30:ILE:N	2.48	0.45
8:PC:108:TYR:HA	8:PC:112:LYS:HE3	1.97	0.45
8:PI:123:ARG:NH2	8:PI:160:ASP:OD1	2.48	0.45
8:PI:133:GLN:HE22	8:PI:253:THR:HG1	1.64	0.45
8:PK:214:ARG:HH22	8:PK:215:ARG:HE	1.64	0.45
9:PN:335:ASN:O	9:PN:338:SER:OG	2.32	0.45
8:PO:172:TYR:HD2	8:PO:205:ASP:HB3	1.81	0.45
8:PO:298:PRO:HD3	8:PO:308:ARG:HH21	1.80	0.45
9:PP:311:LEU:N	9:PP:370:ASN:O	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q4:50:LYS:HG3	28:Q4:61:GLN:HG3	1.98	0.45
28:Q5:53:PRO:HB3	12:S9:242:ALA:C	2.41	0.45
9:QB:331:LEU:HD13	9:QB:331:LEU:HA	1.77	0.45
8:QI:191:THR:HA	8:QI:194:THR:HG22	1.99	0.45
8:QI:262:TYR:HD2	8:QI:265:ILE:HD12	1.81	0.45
9:QL:318:ARG:HG2	9:QL:357:PRO:HA	1.98	0.45
8:QO:167:LEU:HB3	8:QO:202:PHE:HZ	1.78	0.45
9:QP:73:MET:CE	9:QP:92:PHE:HB3	2.45	0.45
11:R1:144:ILE:HG13	11:R1:254:LEU:HD11	1.97	0.45
11:R2:102:ASN:O	11:R2:106:LYS:HG2	2.16	0.45
9:RH:252:LYS:NZ	50:RI:501:GTP:O3G	2.34	0.45
9:RJ:112:LEU:HG	9:RJ:147:MET:CE	2.41	0.45
8:RK:83:TYR:HB3	8:RK:86:LEU:HB3	1.98	0.45
9:RL:197:ASP:OD1	9:RL:197:ASP:N	2.48	0.45
8:RM:89:PRO:HB2	8:SK:280:LYS:HZ3	1.81	0.45
8:RM:276:ILE:C	8:RM:277:SER:O	2.58	0.45
8:RO:338:LYS:HD3	8:RO:341:ILE:HG12	1.99	0.45
12:S0:121:ARG:HH22	12:S1:378:THR:H	1.63	0.45
12:S1:240:ALA:HA	12:S1:321:LEU:HD21	1.98	0.45
12:S6:239:LYS:HD3	12:S6:321:LEU:HD11	1.98	0.45
8:SA:3:GLU:H	8:SA:133:GLN:HG2	1.80	0.45
9:SF:20:PHE:CE1	9:SF:24:ILE:HD12	2.51	0.45
9:SF:257:MET:HB3	9:SF:266:PHE:CZ	2.51	0.45
9:SF:305:PRO:HA	9:SF:373:ALA:HB2	1.97	0.45
8:SI:23:LEU:HD21	8:SI:232:GLY:HA3	1.98	0.45
9:SL:165:ASN:HD21	9:SL:250:LEU:HD13	1.80	0.45
14:T2:159:ARG:HD2	14:T2:429:LYS:NZ	2.22	0.45
14:T2:159:ARG:HH21	14:T2:162:ARG:CZ	2.29	0.45
14:T2:230:ARG:NE	30:U2:479:THR:HG21	2.31	0.45
8:TA:130:THR:OG1	8:TA:131:GLY:N	2.49	0.45
8:TC:56:THR:HA	8:UC:285:GLN:HB2	1.98	0.45
8:TC:215:ARG:NH2	8:TC:299:ALA:O	2.50	0.45
8:TC:319:TYR:CD2	8:TC:323:VAL:HG21	2.51	0.45
8:TE:149:PHE:CD1	8:TE:152:LEU:HD11	2.51	0.45
9:TF:313:VAL:HG13	9:TF:367:PHE:HE1	1.80	0.45
8:TM:319:TYR:CD2	8:TM:328:VAL:HG22	2.51	0.45
9:TN:119:VAL:HA	9:TN:122:LYS:HE3	1.97	0.45
9:TN:214:THR:HG22	9:TN:297:LYS:HE3	1.99	0.45
30:U0:422:THR:O	30:U0:426:THR:HG23	2.16	0.45
30:U2:399:ARG:HH22	30:U2:412:PRO:HB2	1.81	0.45
30:U8:119:ASP:HB3	30:U9:433:ARG:HH22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U9:193:GLU:O	30:U9:197:ASN:ND2	2.49	0.45
8:UA:83:TYR:CD2	8:UA:86:LEU:HD22	2.51	0.45
8:UA:319:TYR:CE2	8:UA:328:VAL:HG22	2.50	0.45
9:UB:276:ARG:CZ	39:c:453:GLN:HE21	2.29	0.45
8:UC:147:SER:OG	8:UC:190:THR:OG1	2.25	0.45
8:UE:10:GLY:O	8:UE:14:VAL:HG23	2.16	0.45
8:UI:302:MET:HA	8:UI:302:MET:HE3	1.98	0.45
8:UM:276:ILE:HB	8:UM:280:LYS:HG3	1.98	0.45
9:UN:42:LEU:HD21	9:UN:356:ILE:HG13	1.98	0.45
9:UN:130:LEU:O	9:UN:162:ARG:NH1	2.39	0.45
9:UN:156:ARG:NH1	9:UN:197:ASP:OD1	2.45	0.45
9:UN:270:PHE:CE1	9:UN:272:PRO:HD2	2.51	0.45
8:UO:328:VAL:HG11	8:UO:353:VAL:HG11	1.98	0.45
30:V3:136:GLU:OE2	30:V3:140:ARG:NH2	2.47	0.45
30:V9:361:LEU:O	30:V9:365:LEU:HG	2.16	0.45
9:VD:170:VAL:HG11	9:VD:377:LEU:HD21	1.98	0.45
9:VF:245:GLN:HG3	9:VF:353:VAL:HB	1.98	0.45
8:VK:36:MET:HE3	8:VK:61:HIS:CE1	2.51	0.45
8:VK:214:ARG:HH21	8:VK:215:ARG:HG2	1.81	0.45
8:VO:313:MET:HG3	8:VO:344:VAL:HG11	1.98	0.45
31:W:94:GLN:HG2	31:W:95:GLU:HG3	1.97	0.45
30:W0:389:LEU:HG	30:W0:393:GLN:HB2	1.97	0.45
30:W2:449:SER:O	30:W2:452:GLU:HG3	2.16	0.45
8:WA:288:VAL:O	8:WA:292:THR:HG22	2.16	0.45
9:WD:237:THR:HG22	9:WD:250:LEU:HD21	1.98	0.45
9:WF:137:HIS:ND1	9:WF:144:GLY:O	2.49	0.45
8:WG:141:PHE:CE1	8:WG:190:THR:HB	2.50	0.45
8:WI:2:ARG:HH21	8:WI:133:GLN:HG2	1.81	0.45
9:WJ:210:ILE:HD11	9:WJ:298:ASN:HA	1.98	0.45
31:X:637:MET:N	31:X:637:MET:SD	2.89	0.45
35:XB:36:ARG:NH1	37:YA:193:ASP:OD1	2.49	0.45
35:XH:115:LYS:O	35:XH:144:TYR:OH	2.30	0.45
37:YD:223:ASP:O	37:YD:227:ASN:ND2	2.50	0.45
38:Z1:137:LYS:NZ	38:Z1:141:ARG:HB2	2.31	0.45
38:Z1:152:LYS:HG3	38:Z1:153:ARG:N	2.31	0.45
39:a:319:ASN:HA	39:a:322:ASN:HD21	1.81	0.45
39:a:357:GLU:HA	39:a:360:LYS:HD2	1.98	0.45
41:b5:220:SER:HB2	41:b5:314:MET:CE	2.46	0.45
39:c:490:VAL:HA	39:c:493:ARG:CZ	2.47	0.45
42:e:43:LEU:HB3	42:e:48:LEU:HD13	1.97	0.45
42:f:398:ILE:HD11	42:f:420:VAL:HG11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:g:20:ILE:HD11	42:g:364:LYS:HD2	1.97	0.45
42:g:410:TYR:CE2	42:g:412:ILE:HG13	2.51	0.45
44:h3:118:MET:HG2	44:h3:124:LEU:O	2.16	0.45
43:i:229:LYS:HA	43:i:232:LYS:HD2	1.98	0.45
47:p:296:LYS:O	47:p:299:LYS:HG2	2.16	0.45
1:0:105:LEU:HD23	1:0:105:LEU:HA	1.79	0.45
4:6:37:ALA:HB3	4:6:41:ARG:HH12	1.81	0.45
5:8:35:GLU:OE2	5:8:35:GLU:N	2.40	0.45
9:AB:417:ASP:HB3	37:YA:175:ARG:HH22	1.81	0.45
8:AC:2:ARG:HH21	8:AC:133:GLN:HB2	1.82	0.45
9:AD:86:ARG:HA	9:BD:281:TYR:HD2	1.81	0.45
9:AD:133:PHE:HB2	9:AD:164:MET:SD	2.57	0.45
8:AI:132:LEU:HB3	8:AI:164:LYS:NZ	2.31	0.45
9:AJ:91:VAL:HG11	9:AJ:116:VAL:HG13	1.98	0.45
8:AM:49:PHE:HE2	8:AM:55:GLU:HB2	1.79	0.45
9:AP:156:ARG:HG3	9:AP:195:ASN:HB3	1.99	0.45
11:B1:265:PHE:HE1	11:B1:387:ASP:OD1	1.99	0.45
11:B5:403:LYS:HA	11:B5:403:LYS:HE3	1.97	0.45
9:BD:78:SER:HB2	31:W:322:LYS:HE2	1.97	0.45
8:BE:254:GLU:HG2	9:BF:98:GLY:HA2	1.98	0.45
8:BG:221:ARG:HH12	17:J:229:ALA:C	2.24	0.45
9:BJ:167:PHE:HE1	9:BJ:200:TYR:HE2	1.65	0.45
9:BN:330:MET:HA	9:BN:333:VAL:HG22	1.98	0.45
10:C:320:ARG:HH12	9:HL:39:ASP:CG	2.25	0.45
12:C1:177:ILE:HG13	12:C1:322:ARG:HG2	1.98	0.45
9:CB:217:LEU:C	22:M1:191:ARG:HH12	2.24	0.45
8:CC:123:ARG:NH2	8:CC:160:ASP:OD1	2.49	0.45
9:CJ:376:GLU:HA	9:CJ:380:ARG:NH1	2.31	0.45
8:CM:346:TRP:O	9:CN:388:MET:HG2	2.16	0.45
9:CP:249:ASP:H	9:CP:252:LYS:HB2	1.81	0.45
8:CQ:105:ARG:HH21	8:CQ:110:ILE:HG13	1.80	0.45
14:D3:50:LYS:HE2	12:S0:90:PHE:CE2	2.52	0.45
9:DB:100:ASN:HB3	9:DB:103:LYS:HG3	1.97	0.45
9:DB:289:LEU:HD11	9:DB:363:MET:HG2	1.98	0.45
9:DB:304:ASP:HB3	9:DB:307:HIS:CE1	2.51	0.45
8:DI:107:HIS:HA	8:DI:152:LEU:HD23	1.98	0.45
8:DO:125:LEU:HD23	8:DO:125:LEU:HA	1.83	0.45
8:DQ:30:ILE:HD13	8:DQ:36:MET:HE2	1.96	0.45
9:ED:299:MET:HE3	9:ED:300:MET:N	2.31	0.45
8:EE:234:ILE:HG22	8:EE:238:ILE:HD11	1.99	0.45
8:EG:172:TYR:HB2	8:EG:203:MET:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EG:186:ASN:O	8:EG:190:THR:OG1	2.25	0.45
9:EH:313:VAL:HG13	9:EH:367:PHE:HE1	1.81	0.45
8:EI:294:ALA:HA	8:EI:297:GLU:HG2	1.97	0.45
8:EM:38:SER:HB2	31:Z:435:ARG:NH1	2.31	0.45
9:EN:324:LYS:HD2	9:EN:324:LYS:HA	1.77	0.45
9:FB:70:PRO:HA	9:FB:73:MET:HE1	1.97	0.45
9:FD:255:VAL:HA	8:FE:407:TRP:CE2	2.52	0.45
9:FD:257:MET:HB3	9:FD:266:PHE:CZ	2.51	0.45
8:FE:123:ARG:NH2	8:FE:127:ASP:OD1	2.48	0.45
8:FG:201:ALA:O	8:FG:268:PRO:HD2	2.16	0.45
9:FH:167:PHE:CD1	9:FH:233:MET:HE1	2.51	0.45
9:FH:323:MET:SD	9:FH:323:MET:N	2.72	0.45
8:FI:167:LEU:HD11	8:FI:256:GLN:HE21	1.81	0.45
8:FK:123:ARG:CZ	36:Y2:102:GLY:H	2.28	0.45
8:FK:259:LEU:HD11	8:FK:268:PRO:HG3	1.99	0.45
9:FN:180:VAL:HG22	9:FN:183:TYR:HB2	1.98	0.45
8:GA:6:SER:HB3	8:GA:8:HIS:CD2	2.51	0.45
9:GD:198:GLU:HG2	9:GD:200:TYR:CZ	2.51	0.45
8:GE:358:GLN:HG2	49:y:109:TYR:CE1	2.51	0.45
9:GF:247:ASN:O	9:GF:252:LYS:NZ	2.49	0.45
9:GH:398:TYR:O	9:GH:403:MET:HE3	2.16	0.45
9:GL:31:ASP:N	9:GL:37:HIS:HE1	2.14	0.45
8:GM:171:ILE:HA	8:GM:204:VAL:HG23	1.98	0.45
8:GM:249:ASN:OD1	9:GN:11:GLN:NE2	2.43	0.45
8:GO:319:TYR:HB3	8:GO:323:VAL:HG11	1.98	0.45
8:HA:88:HIS:CE1	8:IA:284:GLU:HG2	2.51	0.45
8:HA:348:PRO:HD2	9:HB:388:MET:HE1	1.98	0.45
9:HB:333:VAL:HA	9:HB:336:LYS:HG2	1.99	0.45
8:HC:319:TYR:HB3	8:HC:323:VAL:HG11	1.98	0.45
9:HD:155:ILE:HG23	9:HD:159:TYR:HD2	1.81	0.45
8:HE:28:HIS:CE1	8:HE:49:PHE:HD2	2.34	0.45
8:HE:102:ASN:HB3	8:HE:105:ARG:HB3	1.98	0.45
8:HE:255:PHE:O	8:HE:259:LEU:HB2	2.15	0.45
9:HF:101:TRP:HZ3	9:HF:403:MET:HE1	1.81	0.45
8:HG:70:LEU:HD23	8:HG:95:GLY:HA3	1.96	0.45
8:HG:93:ILE:HD13	8:HG:117:LEU:HG	1.97	0.45
9:HH:421:GLU:HA	9:HH:424:GLN:HB3	1.97	0.45
8:HM:221:ARG:HD2	8:HM:221:ARG:HA	1.85	0.45
8:HO:23:LEU:HD21	8:HO:236:SER:HB3	1.99	0.45
9:HP:313:VAL:HB	9:HP:349:VAL:HG22	1.99	0.45
8:IA:11:GLN:HG3	8:IA:74:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IA:112:LYS:HA	8:IA:115:VAL:CG2	2.42	0.45
8:IE:198:SER:OG	8:IE:199:ASP:N	2.49	0.45
8:II:195:LEU:HD21	8:II:264:ARG:HD2	1.99	0.45
9:IL:117:LEU:HD23	9:IL:117:LEU:HA	1.82	0.45
8:IM:266:HIS:C	8:IM:267:PHE:HD1	2.24	0.45
8:IO:206:ASN:HA	8:IO:209:ILE:HD12	1.97	0.45
9:JB:6:HIS:CD2	9:JB:21:TRP:HE1	2.33	0.45
8:JC:261:PRO:HG3	8:JC:313:MET:HE2	1.98	0.45
9:JD:170:VAL:HG11	9:JD:377:LEU:HD11	1.97	0.45
9:JF:276:ARG:HD2	15:N2:25:ARG:NH2	2.30	0.45
8:JG:118:VAL:O	8:JG:122:ILE:HG12	2.16	0.45
8:JG:260:VAL:HB	9:JH:397:TRP:HZ2	1.81	0.45
8:JK:294:ALA:O	8:JK:300:ASN:ND2	2.49	0.45
8:JM:406:HIS:HA	8:JM:409:VAL:HG12	1.97	0.45
9:JP:99:ASN:HD21	9:JP:178:THR:HG23	1.80	0.45
8:JQ:319:TYR:HE2	8:JQ:328:VAL:HG13	1.81	0.45
13:K3:361:PHE:HD1	9:KL:362:LYS:HG3	1.80	0.45
8:KA:14:VAL:HG13	8:KA:67:PHE:HD2	1.81	0.45
9:KJ:204:ASN:OD1	52:KJ:502:GDP:N2	2.50	0.45
8:KK:346:TRP:HZ2	8:KK:435:VAL:HG13	1.81	0.45
9:KL:262:ARG:NE	9:KL:418:LEU:HD13	2.31	0.45
8:KO:139:HIS:O	8:KO:170:ALA:HA	2.16	0.45
9:LB:60:VAL:HG11	9:LB:86:ARG:HB2	1.97	0.45
9:LB:213:ARG:HH21	9:LB:297:LYS:HB3	1.82	0.45
9:LB:239:CYS:SG	9:LB:248:ALA:N	2.81	0.45
8:LE:285:GLN:HB2	29:R:37:ILE:HG22	1.98	0.45
9:LF:390:ARG:NH2	43:i:93:ASP:O	2.46	0.45
8:LG:1:MET:HE1	25:V:33:TYR:HD1	1.81	0.45
8:LK:320:ARG:HD3	8:LK:360:PRO:HG3	1.98	0.45
9:LL:68:LEU:HD23	9:LL:112:LEU:HD22	1.97	0.45
9:LL:114:ASP:N	9:LL:114:ASP:OD1	2.49	0.45
9:LP:219:THR:O	9:LP:219:THR:OG1	2.29	0.45
8:ME:66:VAL:HG12	8:ME:68:VAL:HG13	1.97	0.45
9:MJ:117:LEU:HB3	9:MJ:121:ARG:CZ	2.47	0.45
9:MJ:131:GLN:CD	9:MJ:131:GLN:H	2.23	0.45
8:MM:121:ARG:HD2	8:MM:121:ARG:HA	1.72	0.45
17:N:30:GLN:HG3	17:N:42:LEU:HD11	1.98	0.45
15:N2:14:ASN:OD1	15:N2:17:GLU:HB3	2.15	0.45
8:NA:53:PHE:O	8:NA:64:ARG:NH2	2.49	0.45
8:NA:132:LEU:HD12	8:NA:133:GLN:H	1.80	0.45
8:NA:298:PRO:HA	8:NA:301:GLN:HG2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NB:289:LEU:HD13	9:NB:363:MET:HE3	1.98	0.45
9:ND:86:ARG:HG3	9:OD:282:ARG:NH1	2.31	0.45
8:NE:154:MET:SD	8:NE:193:THR:HG22	2.56	0.45
8:NE:263:PRO:HG3	9:NF:396:HIS:CD2	2.51	0.45
8:NG:315:CYS:SG	8:NG:317:MET:HE1	2.56	0.45
9:NH:28:HIS:CD2	9:NH:47:ILE:HG13	2.48	0.45
9:NH:197:ASP:OD1	9:NH:197:ASP:N	2.49	0.45
8:NI:298:PRO:HG3	8:NI:308:ARG:CZ	2.46	0.45
9:NJ:36:TYR:CZ	9:NJ:44:LEU:HB2	2.51	0.45
8:NK:157:LEU:HA	8:NK:160:ASP:HB2	1.97	0.45
9:NL:299:MET:HE3	9:NL:299:MET:HB3	1.68	0.45
9:NN:4:ILE:HA	9:NN:132:GLY:O	2.16	0.45
8:NO:71:GLU:HG3	8:NO:98:ASP:HB3	1.97	0.45
9:NP:20:PHE:HB2	9:NP:233:MET:HE3	1.96	0.45
9:NP:330:MET:HA	9:NP:333:VAL:HG12	1.99	0.45
24:O1:181:LYS:HE2	24:O1:181:LYS:HB3	1.71	0.45
25:O5:526:GLU:OE1	25:O5:526:GLU:N	2.31	0.45
8:OA:326:LYS:HD2	9:OB:212:PHE:HE1	1.80	0.45
9:OB:344:TRP:CD1	9:OB:344:TRP:H	2.34	0.45
8:OG:20:CYS:HB3	8:OG:24:TYR:OH	2.16	0.45
9:OH:253:LEU:HD12	9:OH:253:LEU:H	1.81	0.45
9:ON:232:THR:HG21	9:ON:268:PRO:HB3	1.98	0.45
8:OO:191:THR:HG21	8:OO:425:LEU:HD21	1.97	0.45
9:OP:83:GLN:O	9:PP:281:TYR:OH	2.23	0.45
27:P3:90:GLN:NE2	27:P3:90:GLN:HA	2.31	0.45
27:P3:178:PHE:HE2	14:T5:336:ILE:HD11	1.81	0.45
17:P9:101:LEU:HG	30:W7:57:HIS:HB2	1.98	0.45
9:PB:267:MET:SD	9:PB:374:ILE:HD13	2.55	0.45
8:PC:264:ARG:HH12	8:PC:428:LEU:HA	1.81	0.45
9:PD:20:PHE:CE1	9:PD:233:MET:HG3	2.51	0.45
9:PD:87:PRO:HA	9:PD:90:PHE:HD1	1.80	0.45
9:PF:207:LEU:HA	9:PF:210:ILE:HG22	1.97	0.45
9:PF:325:GLU:H	8:PG:221:ARG:NH1	2.14	0.45
8:PM:188:ILE:HD13	8:PM:425:LEU:HD12	1.98	0.45
8:PO:209:ILE:HD12	8:PO:209:ILE:H	1.81	0.45
8:PO:252:LEU:HD12	8:PO:253:THR:N	2.31	0.45
9:PP:388:MET:HE3	9:PP:388:MET:HB3	1.81	0.45
28:Q2:133:ARG:HG2	28:Q2:134:TRP:CD1	2.51	0.45
28:Q4:48:ARG:HD3	12:S0:86:ASN:HD21	1.81	0.45
8:QI:3:GLU:O	8:QI:133:GLN:N	2.50	0.45
9:QL:139:LEU:HD12	9:QL:170:VAL:HG13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QL:242:PHE:CD2	9:QL:356:ILE:HB	2.51	0.45
8:QM:7:ILE:HA	8:QM:66:VAL:HG23	1.96	0.45
29:R:103:LYS:HB2	29:R:106:THR:HG23	1.98	0.45
11:R1:255:ASP:OD1	11:R1:258:ARG:NH1	2.49	0.45
8:RC:121:ARG:HD2	8:RC:121:ARG:HA	1.74	0.45
9:RH:174:LYS:HG3	9:RH:175:VAL:HG23	1.97	0.45
9:RH:223:GLY:O	9:RH:227:HIS:N	2.44	0.45
9:RJ:87:PRO:HA	9:RJ:90:PHE:HD1	1.80	0.45
9:RJ:324:LYS:O	9:RJ:328:GLU:HG3	2.17	0.45
8:RM:271:THR:HG23	8:RM:300:ASN:O	2.16	0.45
12:S4:185:LEU:O	12:S4:188:THR:OG1	2.34	0.45
12:S7:373:PHE:CZ	14:T2:42:ALA:HA	2.50	0.45
12:S8:482:SER:HB2	14:T2:403:ARG:HH22	1.81	0.45
12:S9:474:MET:N	12:S9:474:MET:SD	2.89	0.45
8:SC:220:GLU:HG2	8:SC:221:ARG:HG2	1.97	0.45
8:SC:349:THR:HB	9:SD:176:SER:HB3	1.97	0.45
8:SC:395:PHE:HE1	8:SC:422:ARG:HB2	1.81	0.45
9:SD:42:LEU:O	9:SD:42:LEU:HD23	2.16	0.45
9:SD:68:LEU:HG	9:SD:143:THR:HG23	1.98	0.45
9:SD:269:GLY:HA2	9:SD:300:MET:HE3	1.98	0.45
9:SF:266:PHE:CE2	9:SF:370:ASN:HB2	2.51	0.45
8:SG:28:HIS:HB2	8:SG:30:ILE:CD1	2.46	0.45
8:SG:216:ASN:HD22	8:SG:275:VAL:HG13	1.81	0.45
9:SJ:405:GLU:HB2	9:SJ:406:MET:HE2	1.98	0.45
9:SL:193:VAL:HB	9:SL:418:LEU:HD11	1.98	0.45
9:SN:271:ALA:HB1	9:SN:289:LEU:HD22	1.97	0.45
25:T:348:ASP:O	25:T:351:THR:OG1	2.29	0.45
14:T2:88:THR:HB	14:T3:346:LYS:HE2	1.99	0.45
14:T2:166:ASP:OD2	14:T2:422:SER:HB2	2.16	0.45
8:TA:298:PRO:HA	8:TA:301:GLN:HG2	1.98	0.45
8:TC:223:THR:OG1	8:TC:224:TYR:N	2.49	0.45
8:TG:219:ILE:HB	8:TG:222:PRO:HG3	1.98	0.45
9:TH:344:TRP:H	9:TH:344:TRP:CD1	2.34	0.45
8:TI:2:ARG:HB3	8:TI:242:LEU:HD23	1.98	0.45
8:TI:249:ASN:ND2	9:TJ:69:GLU:OE2	2.49	0.45
8:TK:263:PRO:HG3	9:TL:396:HIS:CD2	2.52	0.45
30:U5:132:HIS:O	30:U5:136:GLU:HG2	2.16	0.45
9:UB:384:GLN:O	9:UB:388:MET:HE2	2.16	0.45
9:UD:164:MET:SD	9:UD:196:THR:HA	2.56	0.45
9:UD:198:GLU:HB2	9:UD:266:PHE:HE2	1.81	0.45
8:UG:215:ARG:NH2	8:UG:299:ALA:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UK:49:PHE:HB2	8:UK:53:PHE:HD2	1.80	0.45
8:UM:139:HIS:O	8:UM:170:ALA:HA	2.15	0.45
30:V3:328:LEU:O	30:V3:332:MET:HG3	2.16	0.45
30:V5:153:LYS:HB2	30:V5:257:LYS:HE3	1.98	0.45
8:VA:278:ALA:HA	8:VA:281:ALA:HB3	1.99	0.45
9:VD:322:SER:OG	8:VE:222:PRO:O	2.20	0.45
8:VE:6:SER:HB3	8:VE:8:HIS:CD2	2.51	0.45
8:VE:88:HIS:CD2	8:WE:283:HIS:HB3	2.51	0.45
8:VE:320:ARG:O	8:VE:374:ALA:N	2.48	0.45
8:VI:183:GLU:HA	8:VI:186:ASN:HD22	1.81	0.45
9:VL:274:THR:OG1	9:VL:279:GLN:NE2	2.48	0.45
9:VN:248:ALA:HA	9:VN:252:LYS:HG3	1.98	0.45
8:VO:101:ASN:HA	8:VO:144:GLY:H	1.81	0.45
8:VO:298:PRO:HA	8:VO:301:GLN:HG2	1.97	0.45
30:W0:308:GLN:O	30:W0:311:ARG:HB3	2.16	0.45
30:W6:171:ASP:O	30:W6:175:ARG:HG3	2.17	0.45
9:WB:376:GLU:O	9:WB:380:ARG:NH1	2.49	0.45
8:WC:2:ARG:HB3	8:WC:242:LEU:HD23	1.98	0.45
8:WC:49:PHE:CE1	8:WC:61:HIS:HD2	2.34	0.45
8:WE:49:PHE:HB2	8:WE:53:PHE:HD2	1.81	0.45
9:WH:12:CYS:O	9:WH:16:ILE:HG13	2.15	0.45
9:WH:126:SER:HB3	37:YD:195:ILE:HD11	1.98	0.45
9:WJ:8:GLN:HG2	9:WJ:14:ASN:HA	1.98	0.45
8:WM:7:ILE:HD12	8:WM:137:ILE:HG12	1.98	0.45
8:WO:275:VAL:HA	8:WO:368:LEU:HD11	1.97	0.45
9:WP:207:LEU:HD12	9:WP:225:LEU:HA	1.99	0.45
34:X6:72:ILE:O	34:X6:151:LYS:NZ	2.50	0.45
34:X8:103:ARG:HE	34:X8:103:ARG:HB2	1.54	0.45
35:XA:24:ILE:HG23	35:XA:25:TRP:CD1	2.51	0.45
35:XH:173:SER:OG	35:XH:174:GLU:N	2.49	0.45
36:Y4:191:GLN:HG2	36:Y4:196:LYS:HB2	1.97	0.45
37:YC:144:ARG:HH12	37:YC:180:ILE:HD12	1.80	0.45
31:Z:595:ILE:HG22	31:Z:597:GLN:H	1.81	0.45
39:a:104:ILE:HG13	39:a:106:PRO:HD3	1.98	0.45
39:a:256:ARG:HH22	39:a:260:HIS:HB2	1.80	0.45
39:a6:81:LEU:HD12	39:a6:88:ARG:HH21	1.80	0.45
39:b:357:GLU:O	39:b:361:ILE:HG22	2.16	0.45
42:e:354:LYS:HE3	42:e:374:ASN:H	1.80	0.45
42:e:409:MET:HA	42:e:409:MET:HE2	1.97	0.45
42:f:109:LEU:HB2	42:f:140:TRP:CZ2	2.51	0.45
42:f:254:SER:OG	42:f:267:GLY:O	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:f:416:HIS:CD2	42:f:420:VAL:HG22	2.51	0.45
42:g:58:ASN:HB3	42:g:101:ARG:HD2	1.99	0.45
43:i:120:LYS:HE3	43:i:120:LYS:HB3	1.78	0.45
45:l:70:MET:HE3	45:l:74:ILE:HD12	1.97	0.45
2:1:792:ARG:HB2	2:1:797:ILE:HD11	1.99	0.45
2:2:315:PHE:CE2	9:HJ:57:GLY:HA2	2.52	0.45
2:2:416:VAL:H	2:2:416:VAL:HG22	1.44	0.45
2:2:508:LYS:O	2:2:512:GLN:HB2	2.16	0.45
3:3:368:LYS:HA	3:3:371:LYS:CE	2.45	0.45
4:5:89:SER:HB3	4:5:297:ARG:HH12	1.80	0.45
1:7:37:SER:OG	1:7:38:HIS:N	2.50	0.45
1:7:181:ARG:O	1:7:210:ASN:ND2	2.48	0.45
5:8:13:PHE:CE2	8:IG:114:ILE:HD11	2.52	0.45
6:A:99:GLU:N	6:A:99:GLU:OE1	2.50	0.45
7:A1:93:THR:HG23	28:Q1:76:TRP:CZ2	2.50	0.45
9:AD:213:ARG:HG2	9:AD:297:LYS:NZ	2.31	0.45
8:AG:279:GLU:CD	8:AG:279:GLU:H	2.24	0.45
9:AJ:262:ARG:HE	9:AJ:262:ARG:HB3	1.64	0.45
8:AM:317:MET:HE1	8:AM:377:MET:HE2	1.98	0.45
9:AN:7:LEU:HD23	9:AN:7:LEU:HA	1.76	0.45
8:AO:215:ARG:NH1	8:AO:216:ASN:OD1	2.50	0.45
10:B:137:ARG:O	10:B:141:ILE:HG23	2.16	0.45
9:BJ:72:THR:O	9:BJ:75:SER:OG	2.33	0.45
9:BL:271:ALA:O	9:BL:273:LEU:N	2.45	0.45
9:BL:323:MET:HE1	8:BM:224:TYR:CG	2.51	0.45
8:BM:161:TYR:HB3	8:BM:164:LYS:HD3	1.97	0.45
8:BO:23:LEU:O	8:BO:26:LEU:HD12	2.15	0.45
12:C0:296:VAL:HG22	12:C0:297:PRO:HD2	1.98	0.45
12:C5:388:GLU:H	12:C5:388:GLU:CD	2.24	0.45
9:CB:83:GLN:O	9:DB:281:TYR:OH	2.33	0.45
9:CB:293:MET:HE3	9:CB:365:ALA:HB1	1.99	0.45
8:CI:324:VAL:HG12	8:CI:326:LYS:HG3	1.98	0.45
8:CK:130:THR:OG1	8:CK:131:GLY:N	2.49	0.45
9:CL:86:ARG:HG2	9:CL:88:ASP:H	1.81	0.45
8:CM:251:ASP:H	8:CM:254:GLU:HG2	1.80	0.45
8:CO:364:PRO:HG2	40:a4:94:LYS:HZ1	1.81	0.45
9:CP:219:THR:O	9:CP:219:THR:OG1	2.26	0.45
8:CQ:68:VAL:HG12	8:CQ:93:ILE:HB	1.98	0.45
8:CQ:367:ASP:OD1	8:CQ:368:LEU:N	2.49	0.45
14:D0:238:VAL:HG12	14:D1:351:ARG:HG2	1.98	0.45
14:D4:101:ARG:O	14:D4:105:GLU:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:D4:131:MET:HE1	14:D4:278:LEU:HD23	1.98	0.45
9:DB:345:ILE:HA	8:DC:398:MET:HE1	1.97	0.45
9:DB:375:GLN:HB3	9:DB:422:TYR:HD2	1.80	0.45
9:DB:375:GLN:O	9:DB:379:LYS:HG3	2.16	0.45
8:DE:297:GLU:O	8:DE:301:GLN:NE2	2.46	0.45
9:DL:28:HIS:ND1	9:DL:43:GLN:O	2.46	0.45
9:DL:226:ASN:OD1	52:DL:502:GDP:N1	2.39	0.45
9:DN:173:PRO:HG2	9:DN:174:LYS:HD3	1.98	0.45
9:DN:289:LEU:HD11	9:DN:363:MET:HB3	1.98	0.45
8:DO:2:ARG:HB3	8:DO:242:LEU:HD23	1.98	0.45
8:EG:88:HIS:HD1	8:EG:89:PRO:HD2	1.80	0.45
8:EI:111:GLY:O	8:EI:115:VAL:HG23	2.16	0.45
9:EJ:2:ARG:HD2	9:EJ:240:LEU:HD11	1.98	0.45
9:EJ:156:ARG:HG3	9:EJ:195:ASN:HB3	1.98	0.45
9:EL:309:ARG:HG3	9:EL:426:GLN:HG3	1.98	0.45
8:EO:284:GLU:N	8:EO:284:GLU:OE1	2.50	0.45
8:FA:402:ARG:HG3	8:FA:405:VAL:HG21	1.97	0.45
8:FA:411:GLU:OE2	8:FA:412:GLY:N	2.49	0.45
8:FE:317:MET:O	8:FE:354:GLY:N	2.48	0.45
9:FF:285:THR:HB	9:FF:287:PRO:HD2	1.98	0.45
8:FG:280:LYS:HD3	8:FG:284:GLU:OE2	2.17	0.45
9:FH:83:GLN:OE1	9:FH:83:GLN:N	2.39	0.45
8:FI:206:ASN:OD1	50:FI:501:GTP:N2	2.50	0.45
8:FM:344:VAL:HG12	8:FM:347:CYS:SG	2.57	0.45
9:GD:36:TYR:CZ	9:GD:44:LEU:HD22	2.51	0.45
8:GG:279:GLU:H	8:GG:279:GLU:CD	2.21	0.45
8:GI:30:ILE:HA	8:GI:36:MET:HE1	1.98	0.45
8:GI:138:PHE:HA	8:GI:169:PHE:O	2.16	0.45
9:GJ:146:GLY:O	9:GJ:149:THR:OG1	2.29	0.45
8:GK:85:GLN:OE1	8:GK:85:GLN:N	2.46	0.45
8:GK:220:GLU:OE1	8:GK:220:GLU:N	2.49	0.45
9:GL:207:LEU:HD22	9:GL:228:LEU:HD12	1.99	0.45
9:GN:156:ARG:NH1	9:GN:197:ASP:OD1	2.48	0.45
8:HA:368:LEU:H	8:HA:368:LEU:HD23	1.81	0.45
9:HB:405:GLU:HB3	9:HB:406:MET:HE2	1.98	0.45
9:HD:90:PHE:CB	9:HD:92:PHE:HE1	2.28	0.45
9:HJ:45:GLU:OE1	9:HJ:46:ARG:NH2	2.49	0.45
9:HL:101:TRP:CD1	9:HL:146:GLY:HA2	2.51	0.45
8:HM:72:PRO:HA	8:HM:94:THR:HG21	1.98	0.45
8:HM:195:LEU:HD11	8:HM:264:ARG:HD2	1.97	0.45
9:HN:101:TRP:CD1	9:HN:146:GLY:HA2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HN:137:HIS:ND1	9:HN:144:GLY:O	2.49	0.45
9:HP:330:MET:HE2	9:HP:330:MET:HB2	1.69	0.45
8:IC:269:LEU:HD21	8:IC:384:ILE:HD12	1.97	0.45
8:IC:367:ASP:OD1	8:IC:367:ASP:N	2.48	0.45
9:ID:362:LYS:HA	9:ID:362:LYS:HD3	1.74	0.45
9:IJ:65:LEU:HD11	9:IJ:85:PHE:CD1	2.44	0.45
9:IJ:334:GLN:HE21	9:IJ:349:VAL:HG23	1.81	0.45
8:IK:79:ARG:NH1	8:IK:92:LEU:HD22	2.32	0.45
8:IK:252:LEU:O	8:IK:256:GLN:HB2	2.17	0.45
8:IO:53:PHE:HB3	8:IO:61:HIS:HB3	1.97	0.45
9:IP:88:ASP:H	8:JQ:280:LYS:NZ	2.14	0.45
9:IP:198:GLU:HB2	9:IP:266:PHE:HE2	1.80	0.45
19:J1:219:ARG:NH1	41:b2:250:GLN:HB2	2.21	0.45
19:J2:254:GLU:O	19:J2:258:GLN:HG2	2.16	0.45
9:JB:6:HIS:CE1	9:JB:8:GLN:HG2	2.50	0.45
9:JD:28:HIS:ND1	9:JD:43:GLN:O	2.40	0.45
9:JN:163:ILE:HG13	9:JN:251:ARG:HD3	1.98	0.45
9:JP:150:LEU:O	9:JP:153:SER:OG	2.30	0.45
8:JQ:209:ILE:HG22	8:JQ:227:LEU:HD22	1.98	0.45
20:K1:124:LYS:HZ1	20:K1:128:TRP:CD1	2.35	0.45
9:KH:208:TYR:CZ	9:KH:225:LEU:HD11	2.50	0.45
9:KL:1:MET:SD	9:KL:2:ARG:N	2.89	0.45
9:KL:249:ASP:OD1	9:KL:252:LYS:N	2.44	0.45
9:KN:189:VAL:O	9:KN:193:VAL:HG13	2.16	0.45
9:KN:261:PRO:HG3	8:KO:406:HIS:CD2	2.52	0.45
9:KN:309:ARG:HG3	9:KN:426:GLN:HG3	1.98	0.45
9:KP:392:LYS:HB3	9:KP:395:LEU:HD22	1.98	0.45
9:LB:249:ASP:N	9:LB:249:ASP:OD1	2.49	0.45
9:LD:15:GLN:O	9:LD:226:ASN:ND2	2.49	0.45
8:LK:227:LEU:O	8:LK:231:ILE:HG13	2.16	0.45
8:LM:139:HIS:O	8:LM:170:ALA:HA	2.15	0.45
9:LP:146:GLY:O	9:LP:149:THR:OG1	2.32	0.45
9:LP:228:LEU:HD12	25:O6:13:PRO:HB3	1.98	0.45
8:MA:72:PRO:HD3	8:MA:95:GLY:O	2.16	0.45
9:MB:213:ARG:NH2	9:MB:297:LYS:HB3	2.31	0.45
9:MD:334:GLN:OE1	9:MD:349:VAL:HG23	2.16	0.45
9:MH:136:THR:HG22	9:MH:167:PHE:HB2	1.97	0.45
8:MK:151:SER:HA	8:MK:193:THR:HG21	1.98	0.45
8:MK:326:LYS:HG2	9:ML:212:PHE:CE1	2.52	0.45
9:MN:67:ASP:HA	9:MN:143:THR:HG21	1.99	0.45
9:MN:313:VAL:HG13	9:MN:367:PHE:HE1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MN:343:GLU:HG2	9:MN:430:ALA:HB2	1.98	0.45
8:MO:79:ARG:O	8:MO:84:ARG:HG2	2.16	0.45
8:MO:83:TYR:HB3	8:MO:86:LEU:HB2	1.97	0.45
6:N1:21:LYS:HG3	6:N1:25:ARG:NH1	2.31	0.45
6:N1:27:ARG:NH2	6:N1:28:ASN:HD22	2.14	0.45
9:ND:66:VAL:HA	9:ND:91:VAL:O	2.16	0.45
8:NE:277:SER:OG	8:NE:279:GLU:OE1	2.20	0.45
8:NG:257:THR:HA	9:NH:397:TRP:CH2	2.51	0.45
8:NG:265:ILE:HD12	8:NG:432:TYR:CE1	2.50	0.45
9:NH:202:ILE:HD13	9:NH:202:ILE:HA	1.73	0.45
9:NH:237:THR:HG22	9:NH:250:LEU:HD21	1.97	0.45
9:NL:67:ASP:N	9:NL:67:ASP:OD1	2.48	0.45
8:NM:151:SER:HA	8:NM:193:THR:HG21	1.98	0.45
24:O1:122:LYS:HA	24:O1:122:LYS:HD2	1.72	0.45
24:O2:142:ILE:HD11	24:O2:144:PRO:HG3	1.98	0.45
25:O5:118:ARG:NH2	25:O5:135:GLU:OE1	2.41	0.45
25:O5:175:THR:HA	25:O5:179:LYS:O	2.15	0.45
9:OF:189:VAL:HA	9:OF:192:LEU:HB2	1.97	0.45
9:OJ:73:MET:HE3	9:OJ:73:MET:HB3	1.70	0.45
8:OK:88:HIS:CE1	8:OK:90:GLU:HB3	2.51	0.45
8:OK:167:LEU:HD23	8:OK:167:LEU:HA	1.83	0.45
8:OK:180:ALA:HB3	8:OK:183:GLU:HB2	1.98	0.45
8:OM:105:ARG:HH21	8:OM:110:ILE:HD11	1.81	0.45
8:OO:101:ASN:HA	8:OO:144:GLY:H	1.81	0.45
9:OP:87:PRO:HD3	9:PP:281:TYR:CE1	2.51	0.45
9:OP:240:LEU:HD21	9:OP:250:LEU:HG	1.98	0.45
27:P3:160:HIS:O	27:P3:160:HIS:CG	2.68	0.45
27:P4:126:LEU:HD21	27:P4:151:LEU:HD13	1.98	0.45
27:P6:160:HIS:O	27:P6:160:HIS:CG	2.69	0.45
9:PB:123:GLU:CD	9:PB:123:GLU:H	2.25	0.45
8:PC:437:VAL:O	9:PD:391:ARG:NH2	2.40	0.45
9:PD:263:LEU:HD22	9:PD:422:TYR:HD2	1.81	0.45
8:PE:108:TYR:HA	8:PE:112:LYS:HE3	1.99	0.45
8:PE:280:LYS:HA	8:PE:283:HIS:CE1	2.51	0.45
9:PF:10:GLY:O	9:PF:14:ASN:ND2	2.49	0.45
8:PG:3:GLU:OE2	8:PG:64:ARG:NH2	2.50	0.45
8:PG:79:ARG:HH21	8:PG:94:THR:HG23	1.81	0.45
8:PI:219:ILE:HB	8:PI:222:PRO:HG3	1.98	0.45
9:PL:205:GLU:HA	9:PL:208:TYR:HD2	1.81	0.45
9:PL:332:ASN:O	9:PL:336:LYS:HG2	2.17	0.45
8:QC:317:MET:N	8:QC:352:LYS:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QD:237:THR:HG22	9:QD:250:LEU:HD21	1.98	0.45
9:QD:333:VAL:O	9:QD:337:ASN:ND2	2.49	0.45
9:QF:10:GLY:O	9:QF:14:ASN:ND2	2.49	0.45
9:QF:268:PRO:HG2	9:QF:300:MET:SD	2.56	0.45
8:QG:187:SER:O	8:QG:191:THR:HG23	2.16	0.45
9:QH:50:TYR:CE2	9:QH:241:ARG:HD3	2.52	0.45
9:QH:199:THR:N	9:QH:264:HIS:O	2.43	0.45
9:QH:263:LEU:HD22	9:QH:422:TYR:HD2	1.82	0.45
8:QI:326:LYS:HD3	9:QJ:212:PHE:CZ	2.50	0.45
9:QJ:253:LEU:CD1	9:QJ:257:MET:HG2	2.47	0.45
8:QM:60:LYS:HE2	8:QM:60:LYS:HB3	1.67	0.45
8:QM:108:TYR:CE2	8:QM:413:MET:HE3	2.51	0.45
9:QP:10:GLY:O	9:QP:14:ASN:ND2	2.49	0.45
9:QP:309:ARG:HD2	9:QP:342:VAL:HA	1.98	0.45
8:RC:9:VAL:HB	8:RC:139:HIS:HB3	1.98	0.45
8:RC:287:SER:OG	8:RC:290:GLU:HG3	2.17	0.45
9:RD:5:VAL:HG22	9:RD:62:ARG:HD2	1.99	0.45
8:RE:3:GLU:H	8:RE:133:GLN:HG2	1.81	0.45
8:RE:172:TYR:HB2	8:RE:203:MET:HB3	1.97	0.45
8:RG:12:ALA:O	8:RG:16:ILE:HG22	2.15	0.45
8:RG:73:THR:HA	8:RG:76:ASP:HB2	1.98	0.45
9:RH:9:ALA:HB3	9:RH:137:HIS:HB3	1.98	0.45
9:RH:180:VAL:HG12	9:RH:183:TYR:HB2	1.98	0.45
9:RJ:280:GLN:H	9:RJ:280:GLN:CD	2.25	0.45
9:RJ:282:ARG:HA	9:RJ:282:ARG:HD2	1.67	0.45
8:RK:104:ALA:HA	8:RK:413:MET:CE	2.45	0.45
9:RL:147:MET:HE2	9:RL:151:LEU:HD21	1.98	0.45
8:RM:111:GLY:O	8:RM:115:VAL:HG23	2.16	0.45
8:RM:169:PHE:HD1	8:RM:202:PHE:HB2	1.81	0.45
9:RP:21:TRP:HE1	9:RP:84:ILE:HD13	1.80	0.45
12:S1:214:GLU:HG3	12:S1:346:ALA:HB1	1.99	0.45
12:S5:50:TRP:HD1	12:S5:51:ARG:H	1.63	0.45
12:S5:202:ARG:HG3	12:S5:472:LYS:HE2	1.98	0.45
12:S8:114:ARG:NH2	12:S9:367:LYS:HB3	2.31	0.45
12:S8:127:LEU:HD11	12:S8:131:LYS:HE2	1.98	0.45
9:SB:135:LEU:HD23	9:SB:152:ILE:HD11	1.98	0.45
9:SD:5:VAL:HB	9:SD:133:PHE:HD1	1.81	0.45
9:SD:202:ILE:HG22	9:SD:300:MET:HG3	1.98	0.45
8:SE:135:PHE:N	8:SE:165:SER:O	2.49	0.45
9:SF:27:GLU:OE1	9:SF:241:ARG:NH2	2.41	0.45
9:SF:316:VAL:HG22	9:SF:352:ALA:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SG:32:PRO:HA	8:SG:83:TYR:CE1	2.51	0.45
9:SH:257:MET:HE2	9:SH:314:ALA:HB2	1.98	0.45
9:SH:323:MET:H	9:SH:323:MET:HG2	1.48	0.45
8:SI:53:PHE:O	8:SI:64:ARG:NH1	2.49	0.45
8:SI:125:LEU:HD23	8:SI:125:LEU:HA	1.83	0.45
9:SJ:12:CYS:O	9:SJ:16:ILE:HG22	2.16	0.45
9:SJ:54:ALA:HB3	9:SJ:58:LYS:HB2	1.97	0.45
9:SL:164:MET:HE3	9:SL:164:MET:HA	1.98	0.45
9:SN:156:ARG:NH1	9:SN:197:ASP:OD1	2.49	0.45
14:T3:149:TYR:HB2	14:T3:183:ILE:HG21	1.99	0.45
14:T5:323:ARG:O	14:T5:327:THR:HG23	2.17	0.45
14:T5:350:LEU:O	14:T5:354:GLN:HG3	2.16	0.45
9:TB:197:ASP:HB2	9:TB:198:GLU:OE2	2.15	0.45
8:TC:272:TYR:HD1	8:TC:273:ALA:N	2.15	0.45
8:TC:372:GLN:H	8:TC:372:GLN:HG2	1.49	0.45
9:TD:379:LYS:HZ2	9:TD:419:VAL:HB	1.80	0.45
8:TI:172:TYR:CD1	8:TI:203:MET:SD	3.09	0.45
8:TI:362:VAL:HG12	8:TI:368:LEU:HG	1.97	0.45
8:TK:182:VAL:O	8:TK:186:ASN:ND2	2.50	0.45
25:U:377:VAL:O	25:U:379:GLN:NE2	2.48	0.45
30:U2:271:ARG:CZ	30:U2:271:ARG:HA	2.46	0.45
30:U6:147:SER:O	30:U6:151:PHE:N	2.46	0.45
30:U7:170:MET:HE1	30:U7:318:ARG:HG3	1.98	0.45
30:U7:309:ASN:N	30:U7:309:ASN:OD1	2.47	0.45
30:U9:193:GLU:HB2	30:U9:472:MET:HE1	1.98	0.45
8:UA:370:LYS:HB3	39:c:477:GLU:OE1	2.17	0.45
9:UD:344:TRP:CD1	9:UD:344:TRP:H	2.35	0.45
9:UH:117:LEU:HD11	9:UH:154:LYS:HD3	1.98	0.45
9:UH:267:MET:HE1	9:UH:303:CYS:SG	2.56	0.45
9:UL:267:MET:HB3	9:UL:299:MET:HE1	1.97	0.45
9:UN:375:GLN:HA	9:UN:378:PHE:CD2	2.52	0.45
25:V:348:ASP:HB2	25:V:351:THR:HG23	1.97	0.45
30:V1:388:PRO:HB3	30:V2:135:GLN:NE2	2.29	0.45
30:V2:197:ASN:HB3	30:V2:464:ILE:HG23	1.98	0.45
30:V6:201:ARG:NH2	30:V6:465:ASP:OD1	2.49	0.45
30:V8:464:ILE:HD12	30:V8:468:LYS:HG3	1.97	0.45
8:VA:302:MET:HA	8:VA:302:MET:HE3	1.98	0.45
8:VC:286:LEU:O	8:VC:373:ARG:NH1	2.50	0.45
8:VE:11:GLN:HG3	8:VE:74:VAL:HG11	1.99	0.45
9:VF:323:MET:HE3	8:VG:224:TYR:CE1	2.52	0.45
8:VG:116:ASP:HA	8:VG:119:LEU:HG	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VH:249:ASP:OD1	9:VH:252:LYS:N	2.43	0.45
8:VK:338:LYS:HE2	8:VK:340:THR:HB	1.98	0.45
9:VL:86:ARG:HA	9:WL:281:TYR:CD2	2.51	0.45
8:VM:56:THR:HG23	8:VM:58:ALA:H	1.81	0.45
9:VN:289:LEU:HD23	9:VN:289:LEU:C	2.42	0.45
31:W:180:LYS:NZ	33:X4:101:GLN:O	2.40	0.45
31:W:388:ARG:HH12	31:W:390:TYR:HD1	1.62	0.45
31:W:639:ILE:HD13	31:W:694:PHE:HD1	1.82	0.45
30:W0:174:LYS:O	30:W0:178:GLU:HG2	2.16	0.45
8:WA:179:THR:OG1	50:WA:501:GTP:O3'	2.28	0.45
8:WA:203:MET:SD	8:WA:203:MET:N	2.90	0.45
9:WB:350:LYS:NZ	8:WC:180:ALA:HA	2.31	0.45
8:WG:130:THR:HA	37:YD:105:PHE:CE1	2.52	0.45
8:WI:21:TRP:CH2	8:WI:52:PHE:HB3	2.52	0.45
9:WJ:209:ASP:HA	9:WJ:212:PHE:HD2	1.81	0.45
8:WM:2:ARG:HH22	9:WN:71:GLY:HA3	1.81	0.45
9:WN:1:MET:HA	8:WO:96:LYS:HD2	1.97	0.45
9:WN:256:ASN:HD21	8:WO:181:VAL:H	1.63	0.45
8:WO:136:LEU:HB2	8:WO:138:PHE:HE1	1.81	0.45
8:WO:150:ALA:O	8:WO:154:MET:HG3	2.16	0.45
35:XB:185:LEU:H	35:XB:185:LEU:HD23	1.82	0.45
35:XH:102:ARG:HH11	35:XH:118:ILE:HG13	1.80	0.45
35:XH:127:ASP:OD1	35:XH:127:ASP:N	2.49	0.45
31:Y:505:GLU:OE1	31:Y:505:GLU:N	2.47	0.45
36:Y1:56:ALA:C	36:Y1:58:MET:H	2.24	0.45
36:Y1:77:LEU:HG	36:Y1:79:THR:H	1.82	0.45
36:Y2:168:LYS:HA	36:Y2:168:LYS:HD3	1.78	0.45
31:Z:92:LYS:HG2	31:Z:93:ARG:H	1.82	0.45
31:Z:583:ARG:HA	31:Z:599:LEU:HD11	1.97	0.45
39:b:481:GLN:HA	39:b:484:GLU:OE2	2.17	0.45
39:c:448:ARG:HA	39:c:451:ARG:CZ	2.47	0.45
39:d:489:HIS:HA	39:d:492:ASN:ND2	2.31	0.45
39:d:517:ILE:HG13	39:d:518:LYS:N	2.30	0.45
42:g:20:ILE:HB	42:g:611:ILE:HB	1.98	0.45
42:g:340:PHE:CE2	42:g:594:ARG:HB3	2.51	0.45
44:h3:42:LEU:HB2	43:j:97:MET:HE1	1.98	0.45
44:h3:96:LEU:HD22	44:h3:102:ARG:NH1	2.27	0.45
44:h4:109:GLY:H	44:h4:110:LEU:HD12	1.81	0.45
46:i3:1400:ILE:O	46:i3:1404:VAL:N	2.48	0.45
4:j1:300:VAL:HG21	4:j1:322:CYS:HB3	1.98	0.45
4:j1:314:TYR:HA	4:j1:317:MET:HE1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:n:32:ILE:HD12	45:n:32:ILE:HA	1.82	0.45
45:n:45:ASP:O	45:n:46:ARG:HG2	2.15	0.45
49:y:112:SER:HB2	49:y:114:LYS:HE2	1.97	0.45
4:6:59:VAL:HG12	4:6:60:LYS:HD3	1.98	0.45
5:8:123:LYS:O	5:8:125:LEU:N	2.49	0.45
7:A2:370:LEU:HD21	12:C2:490:CYS:HB2	1.98	0.45
7:A3:191:LEU:HD22	7:A3:198:ILE:HD11	1.99	0.45
7:A3:368:ARG:NH2	22:M3:12:GLU:OE2	2.48	0.45
7:A5:193:ASN:ND2	11:R4:411:PHE:CD2	2.84	0.45
9:AD:344:TRP:CG	8:AE:401:LYS:HZ1	2.33	0.45
9:AH:3:GLU:OE1	9:AH:62:ARG:NH2	2.49	0.45
9:AL:322:SER:HB2	8:AM:223:THR:HA	1.97	0.45
8:AM:56:THR:HA	8:BM:285:GLN:HB2	1.98	0.45
8:AM:223:THR:OG1	8:AM:224:TYR:N	2.49	0.45
9:BD:119:VAL:O	9:BD:123:GLU:HG2	2.16	0.45
8:BE:344:VAL:HG11	8:BE:346:TRP:CE2	2.52	0.45
9:BJ:171:PRO:O	9:BJ:380:ARG:NH2	2.42	0.45
9:BL:164:MET:N	9:BL:164:MET:HE2	2.31	0.45
8:BM:336:LYS:HE2	8:BM:336:LYS:HB2	1.86	0.45
12:C1:228:CYS:O	12:C1:231:GLU:HG3	2.16	0.45
12:C3:426:GLU:HG2	27:P5:114:LEU:HD21	1.97	0.45
12:C4:218:GLU:HB3	12:C4:343:VAL:HG22	1.98	0.45
9:CF:267:MET:CE	9:CF:299:MET:HB3	2.47	0.45
8:CM:84:ARG:NH2	40:a3:12:PRO:HD2	2.31	0.45
14:D2:121:ILE:HD11	14:D2:212:GLU:HA	1.99	0.45
14:D4:427:ARG:O	14:D4:431:MET:HG2	2.17	0.45
9:DB:61:PRO:HD3	9:DB:84:ILE:HG12	1.99	0.45
8:DC:254:GLU:HG3	9:DD:98:GLY:HA2	1.97	0.45
9:DD:179:VAL:HG23	9:DD:180:VAL:HG13	1.98	0.45
8:DE:2:ARG:H	8:DE:2:ARG:HG3	1.51	0.45
8:DI:36:MET:HE3	8:DI:37:PRO:HD2	1.99	0.45
8:DM:422:ARG:HH12	8:DM:426:ALA:HB2	1.81	0.45
9:DN:39:ASP:HA	17:N:52:PRO:HD2	1.98	0.45
9:DN:61:PRO:HD3	9:DN:84:ILE:HG12	1.99	0.45
8:DQ:152:LEU:HA	8:DQ:155:GLU:OE1	2.17	0.45
15:E:71:ILE:HD11	15:E:122:PRO:HA	1.99	0.45
8:EC:339:ARG:NH2	8:EC:342:GLN:HG2	2.31	0.45
9:EF:372:THR:HA	9:EF:422:TYR:CE1	2.51	0.45
8:EG:138:PHE:HD1	8:EG:169:PHE:HB2	1.81	0.45
8:EG:244:PHE:HB2	8:EG:356:ASN:HD21	1.82	0.45
9:EJ:57:GLY:H	17:Z4:227:ARG:NH1	2.10	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EK:138:PHE:CD1	8:EK:169:PHE:HB2	2.51	0.45
9:EL:184:ASN:O	9:EL:188:SER:OG	2.27	0.45
9:EN:347:ASN:ND2	8:EO:178:SER:HB2	2.31	0.45
8:EO:132:LEU:O	8:EO:164:LYS:NZ	2.40	0.45
8:FA:150:ALA:O	8:FA:154:MET:HG2	2.16	0.45
8:FE:25:CYS:O	8:FE:30:ILE:N	2.36	0.45
9:FH:86:ARG:HD2	9:FH:88:ASP:HB2	1.98	0.45
9:FL:276:ARG:HG2	25:O5:460:GLY:HA3	1.97	0.45
8:FM:281:ALA:O	31:Z:712:TYR:OH	2.34	0.45
9:FN:210:ILE:O	9:FN:214:THR:N	2.47	0.45
8:FO:288:VAL:HA	8:FO:291:ILE:HG12	1.98	0.45
16:G:99:GLN:OE1	16:G:100:ASN:N	2.47	0.45
8:GE:2:ARG:H	8:GE:2:ARG:HG3	1.51	0.45
8:GE:211:ASP:O	8:GE:214:ARG:NH2	2.50	0.45
9:GF:156:ARG:HG3	9:GF:195:ASN:HB3	1.98	0.45
9:GF:314:ALA:N	9:GF:368:ILE:O	2.43	0.45
8:GG:209:ILE:HD12	8:GG:227:LEU:HD23	1.98	0.45
9:GH:270:PHE:CE1	9:GH:272:PRO:HD2	2.52	0.45
9:GH:318:ARG:HG2	9:GH:358:PRO:HD3	1.98	0.45
9:GH:327:ASP:N	9:GH:327:ASP:OD1	2.46	0.45
9:GJ:156:ARG:HG3	9:GJ:195:ASN:HB3	1.98	0.45
9:GJ:174:LYS:HD3	9:GJ:175:VAL:HG23	1.98	0.45
8:HA:114:ILE:O	8:HA:118:VAL:HG22	2.16	0.45
8:HC:33:ASP:OD1	8:HC:34:GLY:N	2.50	0.45
8:HC:241:SER:N	8:HC:356:ASN:HD21	2.14	0.45
9:HD:324:LYS:NZ	8:HE:210:TYR:HB3	2.31	0.45
9:HJ:407:GLU:N	9:HJ:407:GLU:OE1	2.49	0.45
8:HK:123:ARG:HD3	8:HK:124:LYS:HZ2	1.82	0.45
8:HK:346:TRP:O	9:HL:388:MET:HE2	2.17	0.45
9:HP:253:LEU:HD23	9:HP:253:LEU:HA	1.83	0.45
17:I:292:MET:HE3	17:I:292:MET:HB3	1.84	0.45
9:IB:69:GLU:HG2	9:IB:71:GLY:H	1.81	0.45
8:IC:35:GLN:NE2	8:IC:59:GLY:O	2.49	0.45
9:ID:138:SER:HA	9:ID:169:VAL:HB	1.97	0.45
8:IG:247:ALA:HB1	9:IH:222:TYR:HD2	1.80	0.45
8:II:212:ILE:HD11	8:II:275:VAL:HG21	1.97	0.45
9:IL:7:LEU:HB2	9:IL:135:LEU:HD12	1.98	0.45
8:IM:298:PRO:HA	8:IM:301:GLN:HG2	1.99	0.45
17:J:302:ASN:OD1	17:J:305:ARG:NH2	2.50	0.45
19:J3:238:MET:HE2	8:LK:396:ASP:HB3	1.98	0.45
19:J4:33:ARG:HH11	19:J4:78:LEU:HD23	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JC:388:TRP:CD1	8:JC:388:TRP:H	2.34	0.45
9:JF:86:ARG:HG3	9:JF:89:ASN:H	1.80	0.45
8:JG:203:MET:HE1	8:JG:388:TRP:HE1	1.81	0.45
9:JH:204:ASN:HD21	9:JH:222:TYR:HE1	1.65	0.45
9:JJ:207:LEU:HD21	9:JJ:300:MET:HE3	1.97	0.45
8:JM:27:GLU:OE2	8:JM:236:SER:OG	2.28	0.45
9:JN:7:LEU:HB3	9:JN:135:LEU:HB2	1.98	0.45
8:JO:153:LEU:O	8:JO:157:LEU:HB2	2.16	0.45
8:JQ:112:LYS:HE3	8:JQ:112:LYS:HB3	1.71	0.45
9:KD:406:MET:HE2	9:KD:406:MET:N	2.28	0.45
8:KG:311:LYS:H	8:KG:382:THR:HG22	1.82	0.45
9:KH:131:GLN:HE22	9:KH:250:LEU:H	1.64	0.45
9:KJ:299:MET:HE1	9:KJ:367:PHE:HE2	1.82	0.45
8:KK:135:PHE:HE2	8:KK:161:TYR:HD1	1.63	0.45
9:KL:10:GLY:O	9:KL:14:ASN:ND2	2.49	0.45
8:KM:153:LEU:HD12	8:KM:153:LEU:HA	1.84	0.45
8:LA:3:GLU:H	8:LA:133:GLN:HB2	1.81	0.45
8:LA:56:THR:HA	8:MA:285:GLN:HB2	1.98	0.45
9:LB:409:THR:HG21	43:h:96:VAL:HG23	1.98	0.45
9:LD:237:THR:HG22	9:LD:250:LEU:HD21	1.99	0.45
8:LE:312:TYR:HE2	8:LE:341:ILE:HD12	1.80	0.45
9:LJ:260:PHE:HB2	9:LJ:263:LEU:HD13	1.98	0.45
9:LJ:321:MET:SD	9:LJ:321:MET:N	2.89	0.45
9:LL:238:THR:HG21	9:LL:318:ARG:HE	1.82	0.45
9:LN:227:HIS:NE2	29:S:138:MET:SD	2.90	0.45
9:LP:197:ASP:OD1	9:LP:197:ASP:N	2.50	0.45
8:MA:75:VAL:HG12	8:MA:79:ARG:HE	1.80	0.45
9:MD:261:PRO:HG3	8:ME:406:HIS:CD2	2.51	0.45
9:MD:330:MET:HE3	9:MD:349:VAL:HG11	1.98	0.45
8:ME:295:CYS:HB3	8:ME:377:MET:SD	2.57	0.45
9:MJ:276:ARG:NH2	23:P:140:GLN:O	2.49	0.45
8:MM:156:ARG:NH1	48:s:98:THR:OG1	2.49	0.45
8:MO:258:ASN:HD21	9:MP:178:THR:HG23	1.82	0.45
9:MP:2:ARG:NE	9:MP:46:ARG:HH12	2.14	0.45
6:N1:20:LYS:O	6:N1:23:VAL:HG12	2.17	0.45
9:ND:6:HIS:CD2	9:ND:21:TRP:HE1	2.34	0.45
9:NH:2:ARG:HE	9:NH:2:ARG:HB2	1.50	0.45
8:NM:53:PHE:HE1	8:NM:63:PRO:HG3	1.82	0.45
8:NM:53:PHE:C	8:NM:61:HIS:HB2	2.41	0.45
8:NO:123:ARG:HG3	36:Y5:178:LYS:HD2	1.99	0.45
8:NO:188:ILE:HG12	8:NO:391:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:O5:487:PRO:HA	25:O5:490:PHE:CD2	2.50	0.45
8:OA:254:GLU:HG3	9:OB:98:GLY:HA2	1.99	0.45
8:OC:6:SER:HA	8:OC:136:LEU:HD12	1.98	0.45
8:OE:121:ARG:O	8:OE:125:LEU:HG	2.17	0.45
8:OE:294:ALA:HA	8:OE:297:GLU:OE2	2.16	0.45
9:OF:19:LYS:HD3	9:OF:19:LYS:H	1.79	0.45
9:OF:211:CYS:HA	9:OF:215:LEU:HB2	1.97	0.45
9:OH:173:PRO:HD3	9:OH:380:ARG:CZ	2.45	0.45
9:OH:249:ASP:O	9:OH:253:LEU:HD12	2.16	0.45
9:OH:285:THR:HG23	9:OH:288:GLU:H	1.81	0.45
9:OH:300:MET:N	9:OH:300:MET:SD	2.89	0.45
9:OH:308:GLY:HA3	9:OH:372:THR:HB	1.98	0.45
9:OJ:237:THR:O	9:OJ:241:ARG:HG3	2.17	0.45
8:OM:101:ASN:HD21	8:OM:180:ALA:HB1	1.82	0.45
8:OO:18:ASN:HD21	8:OO:78:VAL:HG22	1.81	0.45
26:P2:50:GLN:HG3	26:P2:55:ARG:NH2	2.31	0.45
9:PF:113:VAL:HG11	9:PF:150:LEU:HD23	1.98	0.45
9:PH:205:GLU:HA	9:PH:208:TYR:HD2	1.82	0.45
8:PK:121:ARG:HH21	8:PK:124:LYS:HD2	1.81	0.45
8:PK:253:THR:HA	8:PK:256:GLN:HG2	1.98	0.45
9:PL:375:GLN:HA	9:PL:378:PHE:HD2	1.82	0.45
8:PM:326:LYS:NZ	9:PN:220:PRO:HD2	2.32	0.45
8:PO:294:ALA:O	8:PO:300:ASN:ND2	2.49	0.45
9:QB:165:ASN:HB2	9:QB:200:TYR:HE2	1.81	0.45
8:QC:25:CYS:O	8:QC:30:ILE:N	2.49	0.45
9:QD:266:PHE:HE1	9:QD:370:ASN:HB2	1.81	0.45
9:QF:237:THR:HG22	9:QF:250:LEU:HD21	1.99	0.45
9:QF:375:GLN:HA	9:QF:378:PHE:HD2	1.82	0.45
8:QG:18:ASN:HD21	8:QG:78:VAL:HG22	1.82	0.45
8:QK:310:GLY:HA3	8:QK:383:ALA:HB2	1.98	0.45
9:QL:138:SER:HA	9:QL:169:VAL:HB	1.98	0.45
9:QL:317:PHE:HB2	9:QL:353:VAL:HG22	1.98	0.45
9:QN:192:LEU:HD11	9:QN:199:THR:HG21	1.98	0.45
11:R1:117:LEU:CD1	11:R1:137:LEU:HB3	2.43	0.45
11:R3:380:LYS:HD3	11:R3:380:LYS:HA	1.82	0.45
8:RK:295:CYS:HB3	8:RK:377:MET:SD	2.57	0.45
9:RL:165:ASN:HB3	9:RL:200:TYR:CE2	2.49	0.45
8:RO:36:MET:HA	8:RO:36:MET:HE3	1.98	0.45
9:RP:68:LEU:HB3	9:RP:96:GLY:HA2	1.97	0.45
29:S:104:PRO:HD2	29:S:105:GLU:H	1.82	0.45
29:S:362:SER:OG	29:S:363:GLN:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S4:204:LYS:HZ3	12:S5:255:GLU:HB3	1.80	0.45
8:SA:194:THR:O	8:SA:266:HIS:NE2	2.49	0.45
9:SF:26:ASP:O	9:SF:359:ARG:NH1	2.50	0.45
9:SL:418:LEU:HA	9:SL:418:LEU:HD23	1.82	0.45
8:SM:326:LYS:HD3	9:SN:208:TYR:CE1	2.52	0.45
9:SN:35:THR:N	9:SN:58:LYS:HZ2	2.14	0.45
14:T3:8:LEU:HD21	14:T4:252:SER:HA	1.98	0.45
9:TB:420:SER:O	9:TB:423:GLN:HG2	2.17	0.45
9:TD:285:THR:HB	9:TD:287:PRO:HD2	1.98	0.45
8:TM:191:THR:HA	8:TM:194:THR:HG22	1.98	0.45
8:TM:286:LEU:O	8:TM:373:ARG:NH1	2.50	0.45
25:U:210:ASP:O	25:U:214:GLN:HG2	2.17	0.45
25:U:245:PHE:HZ	25:U:355:TYR:HE2	1.63	0.45
25:U:391:GLU:OE1	25:U:391:GLU:N	2.48	0.45
30:U5:300:SER:O	30:U5:304:ILE:HG12	2.16	0.45
30:U7:76:PRO:HB2	30:U7:86:LEU:HD13	1.98	0.45
9:UB:1:MET:N	9:UB:3:GLU:OE1	2.42	0.45
9:UB:252:LYS:HZ2	8:UC:101:ASN:CG	2.23	0.45
8:UC:155:GLU:OE1	8:UC:156:ARG:NH1	2.47	0.45
8:UC:345:ASP:N	8:UC:345:ASP:OD1	2.48	0.45
9:UD:309:ARG:HG3	9:UD:426:GLN:HG3	1.97	0.45
9:UF:267:MET:SD	9:UF:301:ALA:HB3	2.56	0.45
8:UI:203:MET:H	8:UI:203:MET:CE	2.25	0.45
9:UJ:154:LYS:O	9:UJ:158:GLU:HG2	2.16	0.45
8:UO:75:VAL:HG12	8:UO:79:ARG:HE	1.82	0.45
8:UO:118:VAL:O	8:UO:122:ILE:HG12	2.17	0.45
8:UO:313:MET:SD	8:UO:313:MET:N	2.90	0.45
25:V:76:PRO:HB2	25:V:77:LEU:HD13	1.98	0.45
30:V1:324:LEU:O	30:V1:327:THR:OG1	2.30	0.45
30:V2:228:GLN:HB3	30:V2:324:LEU:HD11	1.98	0.45
30:V4:122:ARG:HH21	30:V4:123:ILE:HG12	1.81	0.45
30:V6:343:PHE:O	30:V6:347:ILE:HG23	2.15	0.45
30:V8:227:ASP:O	30:V8:231:LYS:HG2	2.17	0.45
8:VA:239:THR:O	8:VA:243:ARG:HG3	2.17	0.45
9:VB:149:THR:HB	9:VB:191:GLN:HG2	1.99	0.45
9:VD:226:ASN:O	9:VD:230:SER:N	2.48	0.45
8:VG:276:ILE:HD11	8:VG:286:LEU:HD11	1.99	0.45
8:VI:313:MET:HE3	8:VI:346:TRP:CH2	2.52	0.45
8:VK:210:TYR:HE1	8:VK:227:LEU:HD11	1.81	0.45
9:VL:300:MET:N	9:VL:300:MET:SD	2.89	0.45
9:VL:309:ARG:HG3	9:VL:426:GLN:HG3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VM:431:ASP:O	8:VM:435:VAL:HG23	2.16	0.45
9:VN:267:MET:SD	9:VN:301:ALA:HB3	2.57	0.45
30:W7:248:HIS:O	30:W7:252:ARG:HG3	2.16	0.45
8:WC:311:LYS:NZ	8:WC:343:PHE:O	2.48	0.45
9:WD:395:LEU:O	9:WD:399:THR:OG1	2.32	0.45
8:WM:139:HIS:O	8:WM:170:ALA:HA	2.16	0.45
8:WO:9:VAL:HG21	8:WO:153:LEU:HD21	1.98	0.45
9:WP:305:PRO:HA	9:WP:373:ALA:HB2	1.98	0.45
31:X:418:PHE:O	31:X:422:MET:HG2	2.16	0.45
33:X4:189:ASN:OD1	33:X4:189:ASN:N	2.46	0.45
34:X8:206:VAL:HG23	34:X8:207:THR:HG23	1.98	0.45
35:XD:73:LEU:HB2	35:XD:167:PHE:HB3	1.98	0.45
36:Y3:73:ASN:HA	36:Y3:74:PRO:HD2	1.78	0.45
39:a:245:ASP:O	39:a:248:ARG:HG2	2.15	0.45
40:a1:103:PRO:HD3	40:a1:131:LYS:HZ3	1.82	0.45
41:b4:341:ARG:O	41:b4:345:GLU:HG3	2.17	0.45
41:b5:205:GLU:O	41:b5:209:MET:HG2	2.16	0.45
41:b5:431:LYS:O	41:b5:435:GLU:HG2	2.16	0.45
42:e:186:GLU:HB2	42:e:195:TRP:HB2	1.97	0.45
42:f:127:VAL:HG22	42:f:139:VAL:HG22	1.97	0.45
42:g:39:LEU:HG	42:g:52:ILE:HG12	1.99	0.45
42:g:175:VAL:HG22	42:g:184:VAL:HG22	1.99	0.45
42:g:333:GLU:HG3	42:g:353:LYS:HB3	1.98	0.45
2:1:576:LYS:HE3	9:IF:33:THR:HG21	1.99	0.45
2:2:331:ARG:CZ	8:HK:84:ARG:HG2	2.46	0.45
3:3:368:LYS:HA	3:3:371:LYS:HE3	1.98	0.45
3:3:394:MET:N	3:3:394:MET:SD	2.89	0.45
1:7:36:ARG:NH2	9:IB:121:ARG:HB3	2.30	0.45
1:7:87:ARG:NH1	9:JD:320:ARG:HH11	2.14	0.45
6:A:92:MET:HE2	6:A:92:MET:HA	1.99	0.45
8:AA:154:MET:HE2	8:AA:154:MET:HA	1.98	0.45
8:AA:187:SER:HB3	8:AA:391:LEU:HD11	1.98	0.45
9:AB:289:LEU:HD11	9:AB:363:MET:HB3	1.98	0.45
9:AD:309:ARG:HG2	37:YB:40:PRO:HG3	1.98	0.45
9:AD:324:LYS:NZ	8:AE:214:ARG:HB2	2.31	0.45
9:AN:293:MET:HE2	9:AN:367:PHE:HB2	1.99	0.45
9:AN:330:MET:HE2	9:AN:351:THR:HG22	1.97	0.45
8:AO:7:ILE:O	8:AO:7:ILE:HG22	2.15	0.45
8:AO:101:ASN:HA	8:AO:144:GLY:H	1.81	0.45
8:AO:118:VAL:O	8:AO:122:ILE:HG13	2.16	0.45
10:B:67:LEU:HD23	10:B:67:LEU:HA	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B1:290:ILE:HG23	11:B1:363:LEU:HD11	1.99	0.45
11:B1:389:LYS:HD3	11:B1:409:ASP:HB3	1.99	0.45
11:B2:162:LEU:HD13	28:Q2:118:PHE:CE2	2.51	0.45
11:B3:238:GLU:O	11:B3:241:GLU:HB3	2.16	0.45
9:BB:219:THR:O	25:T:140:ASN:ND2	2.47	0.45
8:BE:89:PRO:HG3	17:I:282:ILE:HD11	1.97	0.45
9:BF:204:ASN:OD1	52:BF:502:GDP:O2'	2.32	0.45
8:BG:119:LEU:HD13	8:BG:119:LEU:HA	1.84	0.45
8:BG:186:ASN:O	8:BG:190:THR:OG1	2.28	0.45
9:BJ:362:LYS:HB2	17:L:269:HIS:CE1	2.52	0.45
9:BL:284:LEU:HG	9:BL:363:MET:HE2	1.99	0.45
9:BN:325:GLU:H	9:BN:325:GLU:CD	2.24	0.45
8:BO:123:ARG:NH1	8:BO:127:ASP:OD2	2.49	0.45
12:C2:408:ASN:OD1	12:C2:408:ASN:N	2.50	0.45
9:CB:320:ARG:NH1	9:CB:321:MET:O	2.49	0.45
9:CB:324:LYS:HB3	8:CC:222:PRO:HD2	1.98	0.45
8:CE:7:ILE:O	8:CE:9:VAL:HG23	2.17	0.45
8:CE:18:ASN:OD1	27:P4:21:TYR:OH	2.28	0.45
8:CK:172:TYR:N	8:CK:204:VAL:O	2.30	0.45
8:CK:219:ILE:HG22	17:L:298:LEU:C	2.42	0.45
9:CP:79:GLY:HA2	31:Z:280:ARG:CZ	2.45	0.45
13:D:373:VAL:HG11	13:D:377:ARG:HH11	1.80	0.45
14:D0:25:LYS:HZ3	12:S3:78:SER:HA	1.82	0.45
14:D2:106:ARG:NH1	14:D3:371:ASP:HB3	2.31	0.45
8:DE:27:GLU:OE2	8:DE:236:SER:OG	2.29	0.45
8:DK:7:ILE:O	8:DK:9:VAL:HG23	2.16	0.45
9:DL:133:PHE:CD2	9:DL:164:MET:HE1	2.51	0.45
9:DN:36:TYR:OH	9:DN:40:SER:O	2.34	0.45
8:DO:419:SER:OG	8:DO:420:GLU:OE2	2.34	0.45
8:DQ:298:PRO:HA	8:DQ:301:GLN:HG2	1.99	0.45
9:EF:178:THR:HG22	9:EF:180:VAL:H	1.82	0.45
9:EH:11:GLN:HG2	9:EH:72:THR:HG21	1.98	0.45
8:EI:167:LEU:HD21	8:EI:255:PHE:HZ	1.81	0.45
9:EJ:12:CYS:O	9:EJ:16:ILE:HG12	2.16	0.45
9:EN:78:SER:OG	31:Z:482:LYS:HB3	2.16	0.45
8:FE:279:GLU:OE2	8:FE:279:GLU:N	2.32	0.45
8:FE:320:ARG:O	8:FE:374:ALA:N	2.45	0.45
8:FG:167:LEU:HD21	8:FG:255:PHE:HZ	1.81	0.45
8:FG:297:GLU:O	8:FG:301:GLN:NE2	2.45	0.45
8:FI:339:ARG:HH22	8:FI:342:GLN:HG2	1.81	0.45
8:FK:116:ASP:C	36:Y2:108:PRO:HB3	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FN:280:GLN:OE1	9:FN:280:GLN:N	2.41	0.45
8:GA:2:ARG:HD2	8:GA:2:ARG:H	1.81	0.45
9:GB:294:PHE:HE2	9:GB:333:VAL:HG11	1.80	0.45
8:GC:75:VAL:HG21	8:GC:79:ARG:HH21	1.81	0.45
8:GC:272:TYR:CD1	8:GC:275:VAL:HG22	2.52	0.45
9:GD:344:TRP:CZ3	8:GE:403:ALA:HB2	2.51	0.45
8:GE:62:VAL:HG21	8:HE:283:HIS:O	2.17	0.45
8:GE:105:ARG:HH21	8:GE:110:ILE:HD11	1.81	0.45
8:GE:271:THR:OG1	8:GE:301:GLN:OE1	2.34	0.45
8:GI:167:LEU:HD23	8:GI:202:PHE:HE2	1.80	0.45
8:GK:30:ILE:HD12	8:GK:30:ILE:H	1.81	0.45
8:GK:276:ILE:HB	8:GK:280:LYS:HG2	1.98	0.45
8:GM:223:THR:OG1	8:GM:224:TYR:N	2.50	0.45
9:HB:28:HIS:CD2	9:HB:47:ILE:HG13	2.51	0.45
8:HC:53:PHE:O	8:HC:64:ARG:NH1	2.49	0.45
8:HC:161:TYR:HA	36:Y0:23:TYR:CE1	2.52	0.45
8:HC:352:LYS:HA	8:HC:352:LYS:HD3	1.80	0.45
9:HD:314:ALA:HB3	9:HD:368:ILE:HG13	1.97	0.45
9:HF:31:ASP:OD2	9:HF:35:THR:OG1	2.24	0.45
9:HF:362:LYS:HE3	9:HF:362:LYS:HB2	1.54	0.45
8:HI:38:SER:O	8:HI:41:THR:N	2.50	0.45
9:HJ:122:LYS:HA	9:HJ:122:LYS:HD3	1.66	0.45
9:HL:25:SER:O	9:HL:29:GLY:N	2.50	0.45
8:HO:168:GLU:OE1	8:HO:170:ALA:HB2	2.16	0.45
9:IF:297:LYS:NZ	36:Y1:204:ALA:O	2.35	0.45
8:IG:134:GLY:C	8:IG:135:PHE:HD2	2.25	0.45
8:IG:313:MET:HE2	8:IG:313:MET:HB3	1.88	0.45
9:IH:372:THR:HA	9:IH:422:TYR:HE1	1.81	0.45
9:IJ:164:MET:HE2	9:IJ:196:THR:HA	1.97	0.45
9:IJ:226:ASN:OD1	52:IJ:502:GDP:N1	2.39	0.45
9:IL:215:LEU:HA	9:IL:275:SER:HB3	1.97	0.45
8:IM:139:HIS:O	8:IM:170:ALA:HA	2.16	0.45
9:IN:284:LEU:HD22	9:IN:363:MET:HE2	1.98	0.45
9:IN:372:THR:HA	9:IN:422:TYR:CE1	2.50	0.45
9:IP:149:THR:HB	9:IP:191:GLN:HG2	1.99	0.45
19:J2:116:LEU:HD13	19:J2:150:ASN:HA	1.97	0.45
19:J3:116:LEU:HD21	19:J3:153:GLU:HG2	1.99	0.45
19:J4:266:GLU:HG3	41:b5:211:ARG:HH12	1.81	0.45
9:JB:375:GLN:HA	9:JB:378:PHE:CD2	2.51	0.45
9:JF:371:SER:O	9:JF:422:TYR:OH	2.30	0.45
9:JN:2:ARG:HH12	8:JO:97:GLU:HG2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JP:61:PRO:HG2	9:JP:84:ILE:HG23	1.99	0.45
8:KA:254:GLU:O	8:KA:257:THR:HG22	2.17	0.45
9:KD:8:GLN:O	9:KD:66:VAL:HG22	2.16	0.45
8:KE:431:ASP:O	8:KE:434:GLU:HG3	2.17	0.45
9:KF:42:LEU:HD23	9:KF:356:ILE:HD11	1.98	0.45
9:KH:285:THR:HG23	9:KH:287:PRO:HD2	1.97	0.45
8:KI:238:ILE:HD11	8:KI:378:LEU:HD21	1.99	0.45
8:KK:170:ALA:O	8:KK:204:VAL:HG12	2.15	0.45
9:KL:41:ASP:OD2	9:KL:42:LEU:N	2.50	0.45
8:LA:324:VAL:HG12	8:LA:326:LYS:H	1.82	0.45
9:LB:202:ILE:HD13	9:LB:229:VAL:HG13	1.98	0.45
8:LC:174:ALA:HB3	8:LC:177:VAL:O	2.17	0.45
8:LE:23:LEU:HD21	8:LE:236:SER:HB2	1.99	0.45
8:LE:415:GLU:HB2	43:i:75:LYS:HD3	1.98	0.45
9:LF:164:MET:HE2	9:LF:164:MET:HB3	1.63	0.45
9:LF:420:SER:O	9:LF:423:GLN:HG3	2.15	0.45
9:LJ:87:PRO:HD2	9:LJ:88:ASP:H	1.79	0.45
8:LK:235:VAL:HA	8:LK:238:ILE:HD12	1.98	0.45
8:LK:345:ASP:N	8:LK:345:ASP:OD1	2.48	0.45
8:LM:271:THR:HB	8:LM:377:MET:CB	2.45	0.45
8:LO:123:ARG:HH21	8:MO:338:LYS:HZ2	1.63	0.45
9:LP:407:GLU:HA	9:LP:410:GLU:HG2	1.98	0.45
8:MA:311:LYS:H	8:MA:382:THR:HG22	1.80	0.45
9:MD:147:MET:HE2	9:MD:147:MET:HB2	1.81	0.45
9:MH:347:ASN:ND2	8:MI:180:ALA:O	2.50	0.45
8:MO:6:SER:HB3	8:MO:8:HIS:NE2	2.31	0.45
8:MO:59:GLY:HA3	33:X5:108:HIS:CD2	2.51	0.45
8:NC:52:PHE:CZ	8:NC:239:THR:HG21	2.51	0.45
8:NC:167:LEU:HB2	8:NC:202:PHE:CE1	2.51	0.45
9:NF:176:SER:OG	9:NF:181:GLU:OE1	2.32	0.45
8:NI:51:THR:HG21	8:NI:243:ARG:HG2	1.98	0.45
8:NI:88:HIS:CD2	8:NI:121:ARG:HH22	2.35	0.45
9:NJ:167:PHE:CE2	9:NJ:233:MET:HB3	2.51	0.45
8:NK:191:THR:HA	8:NK:194:THR:HG22	1.99	0.45
8:NK:195:LEU:CD1	8:NK:264:ARG:HG3	2.47	0.45
9:NL:202:ILE:CD1	9:NL:300:MET:HG3	2.46	0.45
8:NO:108:TYR:HA	8:NO:112:LYS:HE3	1.99	0.45
8:NO:115:VAL:HG13	8:NO:156:ARG:CZ	2.46	0.45
24:O2:86:PRO:HG2	17:O9:78:CYS:SG	2.56	0.45
8:OC:416:GLY:O	8:OC:419:SER:OG	2.31	0.45
9:OD:6:HIS:CD2	9:OD:134:GLN:HG3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OD:184:ASN:OD1	9:OD:398:TYR:OH	2.35	0.45
8:OE:165:SER:HB3	8:OE:256:GLN:HE22	1.81	0.45
9:OH:21:TRP:CE2	9:OH:61:PRO:HB3	2.51	0.45
9:OJ:15:GLN:HB3	9:OJ:222:TYR:HE2	1.80	0.45
9:OJ:22:GLU:HG2	9:OJ:81:PHE:CD1	2.52	0.45
9:OJ:178:THR:HB	9:OJ:181:GLU:HB2	1.98	0.45
9:OJ:180:VAL:O	9:OJ:184:ASN:ND2	2.50	0.45
9:OJ:181:GLU:HA	9:OJ:184:ASN:HD22	1.81	0.45
9:OJ:294:PHE:HB2	36:Y4:54:ARG:NH1	2.31	0.45
9:OL:87:PRO:HD2	9:PL:281:TYR:CZ	2.51	0.45
26:P1:46:TYR:HA	26:P1:49:HIS:CD2	2.51	0.45
26:P2:106:HIS:CE1	26:P2:108:CYS:HB2	2.51	0.45
27:P6:163:ARG:HH12	30:U3:316:ARG:CG	2.29	0.45
9:PB:309:ARG:HA	9:PB:309:ARG:HD3	1.76	0.45
8:PE:6:SER:HB3	8:PE:8:HIS:CD2	2.52	0.45
9:PF:170:VAL:HG11	9:PF:377:LEU:HD21	1.99	0.45
8:PI:36:MET:HE3	8:PI:37:PRO:HD2	1.97	0.45
9:PJ:296:ALA:HA	9:PJ:299:MET:HE2	1.99	0.45
9:QD:174:LYS:HD2	9:QD:174:LYS:HA	1.75	0.45
9:QF:31:ASP:OD2	9:QF:33:THR:HB	2.16	0.45
8:QG:79:ARG:HH21	8:QG:94:THR:HG23	1.82	0.45
9:QH:86:ARG:NH1	9:RH:277:GLY:O	2.43	0.45
8:QI:88:HIS:HD2	8:QI:91:GLN:HG3	1.80	0.45
9:QN:222:TYR:HA	9:QN:225:LEU:HG	1.99	0.45
8:QO:227:LEU:HD21	50:QO:501:GTP:N2	2.32	0.45
8:RC:167:LEU:HD11	8:RC:256:GLN:HE21	1.81	0.45
8:RI:184:PRO:O	8:RI:188:ILE:HG12	2.16	0.45
8:RM:5:ILE:HD13	8:RM:125:LEU:HB3	1.98	0.45
12:S3:74:ARG:HD3	12:S4:227:LEU:HD13	1.99	0.45
12:S3:129:GLN:NE2	30:V5:155:GLU:OE2	2.49	0.45
12:S5:288:GLU:OE1	12:S5:288:GLU:N	2.34	0.45
12:S6:437:ARG:O	12:S6:441:SER:OG	2.26	0.45
12:S8:414:ASP:OD1	12:S8:414:ASP:N	2.37	0.45
12:S9:435:GLN:HB3	12:S9:439:ARG:NH2	2.31	0.45
9:SD:27:GLU:HA	9:SD:359:ARG:HE	1.80	0.45
8:SE:325:PRO:HA	8:SE:328:VAL:HB	1.99	0.45
9:SF:270:PHE:C	9:SF:293:MET:HE1	2.42	0.45
9:SH:33:THR:HG22	9:SH:58:LYS:HZ1	1.82	0.45
9:SH:139:LEU:HD13	9:SH:170:VAL:HA	1.98	0.45
8:SM:429:GLU:O	8:SM:433:GLU:HG2	2.15	0.45
9:SN:135:LEU:HD23	9:SN:152:ILE:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T1:323:ARG:NH2	14:T1:324:LYS:HG2	2.32	0.45
14:T2:394:LYS:HD3	14:T2:394:LYS:HA	1.71	0.45
14:T3:200:GLN:HG2	14:T3:278:LEU:HD23	1.98	0.45
8:TC:261:PRO:HG3	8:TC:313:MET:HE3	1.99	0.45
8:TI:287:SER:N	8:TI:290:GLU:OE2	2.49	0.45
25:U:19:ASP:OD2	25:U:22:LYS:N	2.50	0.45
30:U0:395:MET:HG2	30:U1:267:CYS:HB2	1.97	0.45
30:U4:285:LYS:HD2	30:U4:286:PHE:N	2.31	0.45
30:U5:282:GLY:HA2	30:U5:285:LYS:HD3	1.98	0.45
30:U7:110:ARG:HH12	30:U8:364:ILE:N	2.15	0.45
30:U8:140:ARG:NH2	30:U8:141:ASN:HB2	2.32	0.45
9:UD:274:THR:HB	9:UD:278:SER:HB2	1.98	0.45
9:UD:309:ARG:NH2	9:UD:339:SER:O	2.50	0.45
8:UE:422:ARG:HH12	8:UE:426:ALA:HB2	1.81	0.45
9:UH:17:GLY:HA2	9:UH:20:PHE:HB3	1.98	0.45
9:UJ:39:ASP:OD1	9:UJ:39:ASP:N	2.49	0.45
9:UJ:371:SER:O	9:UJ:422:TYR:OH	2.29	0.45
8:UO:76:ASP:O	8:UO:80:THR:HG22	2.16	0.45
30:V2:441:LEU:HA	30:V2:444:LEU:HB2	1.98	0.45
30:V5:470:MET:HA	30:V5:470:MET:HE2	1.99	0.45
8:VE:96:LYS:HD2	8:VE:96:LYS:HA	1.67	0.45
8:VG:209:ILE:HD12	8:VG:209:ILE:H	1.81	0.45
8:VI:345:ASP:N	8:VI:345:ASP:OD1	2.48	0.45
31:W:71:TRP:H	31:W:71:TRP:CD1	2.32	0.45
30:W5:368:ILE:O	30:W5:372:GLU:N	2.47	0.45
8:WA:139:HIS:O	8:WA:170:ALA:HA	2.17	0.45
8:WA:318:LEU:HB2	8:WA:376:CYS:HB3	1.98	0.45
8:WG:29:GLY:HA3	8:WG:36:MET:HE1	1.99	0.45
8:WO:7:ILE:HG23	8:WO:122:ILE:HD11	1.98	0.45
34:X6:167:LEU:HD23	34:X6:167:LEU:HA	1.74	0.45
34:X8:43:VAL:HB	34:X8:86:LEU:HB3	1.98	0.45
34:X8:119:ILE:HD13	34:X8:150:VAL:HG11	1.99	0.45
34:X8:214:ASP:N	34:X8:214:ASP:OD1	2.46	0.45
34:X8:259:GLY:O	34:X8:263:ARG:HG2	2.16	0.45
35:XA:140:THR:HG21	35:XA:148:TYR:HB2	1.97	0.45
35:XG:35:LYS:HG3	35:XG:37:ILE:HG23	1.97	0.45
31:Y:298:ILE:CD1	31:Y:328:VAL:HB	2.46	0.45
36:Y0:41:HIS:CD2	36:Y0:47:ARG:HA	2.52	0.45
37:YB:187:MET:HE2	37:YB:205:ILE:HD12	1.97	0.45
37:YG:141:LEU:HB3	37:YG:180:ILE:HG21	1.97	0.45
40:a4:103:PRO:HG3	40:a4:131:LYS:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:b1:414:ARG:HG3	41:b2:118:ARG:HE	1.82	0.45
41:b3:402:GLN:HB3	44:h3:59:PRO:HD2	1.99	0.45
42:e:330:CYS:O	42:e:357:ARG:NH1	2.50	0.45
42:f:170:ARG:NH2	42:f:186:GLU:OE2	2.50	0.45
42:g:256:LEU:HD21	42:g:264:LEU:HD13	1.98	0.45
47:o:232:LYS:HE3	47:o:232:LYS:HB3	1.76	0.45
2:1:746:ARG:HD2	2:1:746:ARG:HA	1.67	0.45
3:3:19:LYS:HZ3	36:Y5:245:TYR:HD2	1.65	0.45
3:3:29:LYS:C	3:3:31:GLN:N	2.74	0.45
3:4:399:LEU:HD23	3:4:399:LEU:HA	1.82	0.45
3:4:473:PHE:CZ	3:4:477:LEU:HD11	2.51	0.45
7:A2:133:GLU:O	7:A2:137:GLN:HG2	2.17	0.45
7:A3:78:ASP:OD1	12:C2:275:ARG:NH2	2.38	0.45
8:AC:186:ASN:OD1	8:AC:408:TYR:OH	2.22	0.45
8:AC:275:VAL:HG23	8:AC:368:LEU:HD22	1.98	0.45
8:AG:276:ILE:HD12	8:AG:281:ALA:HB2	1.99	0.45
8:AO:358:GLN:NE2	8:AO:359:PRO:O	2.47	0.45
9:AP:229:VAL:HG12	9:AP:233:MET:HE2	1.98	0.45
11:B0:7:LYS:NZ	14:D1:327:THR:HA	2.32	0.45
11:B1:150:VAL:O	11:B1:153:GLU:HG3	2.17	0.45
11:B2:410:THR:HG1	12:S6:239:LYS:HZ1	1.53	0.45
11:B3:131:ASP:N	11:B3:131:ASP:OD1	2.49	0.45
11:B5:318:LEU:O	11:B5:322:THR:HG23	2.16	0.45
11:B5:408:VAL:O	11:B5:410:THR:N	2.50	0.45
9:BB:86:ARG:HH11	9:BB:88:ASP:HB3	1.81	0.45
8:BC:311:LYS:H	8:BC:382:THR:HG22	1.81	0.45
8:BE:156:ARG:HA	8:BE:159:VAL:HG22	1.98	0.45
9:BF:163:ILE:CG1	9:BF:251:ARG:HE	2.30	0.45
8:BK:298:PRO:HA	8:BK:301:GLN:HG2	1.97	0.45
9:BP:117:LEU:HA	9:BP:120:VAL:HG12	1.99	0.45
10:C:401:GLN:C	10:C:405:LYS:HZ3	2.24	0.45
12:C1:90:PHE:HB2	17:O9:183:ARG:HH21	1.81	0.45
8:CE:422:ARG:HH12	8:CE:426:ALA:HB2	1.81	0.45
9:CF:317:PHE:HD2	9:CF:321:MET:HE1	1.81	0.45
8:CG:25:CYS:O	8:CG:30:ILE:N	2.48	0.45
8:CG:71:GLU:HG2	8:CG:72:PRO:HD2	1.98	0.45
9:CH:27:GLU:OE2	9:CH:318:ARG:NH2	2.46	0.45
8:CO:20:CYS:SG	8:CO:21:TRP:N	2.90	0.45
8:DE:214:ARG:O	8:DE:214:ARG:NE	2.50	0.45
8:DI:90:GLU:OE2	8:DI:90:GLU:N	2.46	0.45
9:DL:10:GLY:O	9:DL:14:ASN:ND2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DQ:206:ASN:OD1	50:DQ:501:GTP:N2	2.49	0.45
15:E:20:TYR:O	15:E:24:GLU:HG2	2.17	0.45
15:E:54:MET:HE2	15:E:54:MET:HB3	1.88	0.45
8:EA:265:ILE:HG23	8:EA:432:TYR:CZ	2.51	0.45
9:EB:183:TYR:HD2	9:EB:398:TYR:CE2	2.34	0.45
9:EB:276:ARG:HB2	31:W:405:SER:HB2	1.99	0.45
8:EE:88:HIS:NE2	8:FE:284:GLU:OE2	2.36	0.45
8:EG:125:LEU:HD23	8:EG:125:LEU:HA	1.86	0.45
8:EG:258:ASN:ND2	8:EG:258:ASN:N	2.64	0.45
8:EI:31:GLN:NE2	31:Y:429:ASN:OD1	2.50	0.45
8:EI:56:THR:HG22	8:FI:285:GLN:HB2	1.97	0.45
9:EL:237:THR:HG22	9:EL:250:LEU:HD11	1.98	0.45
9:FD:237:THR:HG22	9:FD:250:LEU:HD21	1.99	0.45
8:FE:262:TYR:OH	9:FF:391:ARG:O	2.34	0.45
9:GB:62:ARG:NH1	9:GB:127:CYS:SG	2.89	0.45
8:GE:263:PRO:HG3	9:GF:396:HIS:CD2	2.52	0.45
8:GE:352:LYS:HD2	9:GF:177:ASP:O	2.16	0.45
9:GF:103:LYS:HG3	9:GF:108:GLU:OE1	2.16	0.45
9:GF:172:SER:HB2	9:GF:203:ASP:OD1	2.17	0.45
9:GF:250:LEU:HD12	9:GF:250:LEU:HA	1.82	0.45
8:GG:70:LEU:HB3	8:GG:98:ASP:HA	1.99	0.45
8:GG:311:LYS:H	8:GG:382:THR:HG22	1.82	0.45
8:GG:371:VAL:HG12	8:GG:373:ARG:H	1.82	0.45
9:GJ:150:LEU:HG	9:GJ:154:LYS:HE2	1.99	0.45
9:GL:8:GLN:HE22	9:GL:17:GLY:HA3	1.81	0.45
9:GL:376:GLU:HG2	9:GL:380:ARG:HH21	1.82	0.45
8:GM:322:ASP:OD2	8:GM:373:ARG:NH2	2.50	0.45
9:GN:198:GLU:HB2	9:GN:266:PHE:HE2	1.81	0.45
9:GN:324:LYS:HE3	8:GO:210:TYR:HD1	1.81	0.45
8:HA:278:ALA:HA	8:HA:369:ALA:HB2	1.98	0.45
8:HC:90:GLU:O	8:HC:121:ARG:NE	2.49	0.45
8:HC:154:MET:HE1	8:HC:166:LYS:HD2	1.99	0.45
8:HC:224:TYR:O	8:HC:228:ASN:HB2	2.17	0.45
9:HD:44:LEU:HD11	9:HD:59:TYR:CZ	2.51	0.45
9:HD:156:ARG:HD3	9:HD:160:PRO:HA	1.99	0.45
9:HH:83:GLN:N	9:HH:83:GLN:OE1	2.50	0.45
8:HK:275:VAL:C	8:HK:276:ILE:HD13	2.41	0.45
9:HL:187:LEU:HD11	9:HL:408:PHE:CE1	2.51	0.45
9:HN:303:CYS:HB3	9:HN:380:ARG:HH22	1.81	0.45
8:HO:277:SER:OG	8:HO:278:ALA:N	2.49	0.45
8:IA:87:PHE:HB3	8:IA:91:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IC:88:HIS:ND1	8:IC:90:GLU:HB3	2.32	0.45
9:ID:68:LEU:HD23	9:ID:112:LEU:HD12	1.97	0.45
9:IF:318:ARG:HG2	9:IF:356:ILE:O	2.16	0.45
8:II:121:ARG:HD2	8:II:121:ARG:HA	1.60	0.45
8:II:425:LEU:HD12	8:II:425:LEU:HA	1.76	0.45
9:IJ:34:GLY:HA3	9:IJ:58:LYS:HE2	1.99	0.45
9:IJ:324:LYS:HG2	8:IK:222:PRO:HD2	1.98	0.45
9:IN:116:VAL:HG23	9:IN:151:LEU:HD21	1.98	0.45
9:IN:317:PHE:HB2	9:IN:353:VAL:HG22	1.98	0.45
19:J5:79:PRO:HB2	19:J5:83:PHE:CE1	2.52	0.45
9:JF:183:TYR:O	9:JF:187:LEU:HD12	2.17	0.45
9:JH:271:ALA:HB2	9:JH:293:MET:HE1	1.99	0.45
8:JI:227:LEU:HD23	50:JI:501:GTP:N2	2.32	0.45
9:JJ:293:MET:N	9:JJ:293:MET:SD	2.89	0.45
9:JJ:299:MET:HE3	9:JJ:299:MET:HA	1.98	0.45
9:JL:3:GLU:C	9:JL:4:ILE:HD12	2.41	0.45
9:JL:170:VAL:HG21	9:JL:377:LEU:HD11	1.98	0.45
9:JL:346:PRO:HG3	8:JM:394:LYS:HB2	1.97	0.45
8:JM:305:CYS:SG	8:JM:387:ALA:HB2	2.57	0.45
9:JN:50:TYR:CE1	9:JN:241:ARG:HD3	2.52	0.45
8:JO:326:LYS:HD3	9:JP:212:PHE:CE1	2.51	0.45
9:JP:414:ASN:O	9:JP:418:LEU:N	2.50	0.45
20:K1:50:ILE:HD13	9:UB:321:MET:HA	1.99	0.45
9:KB:72:THR:O	9:KB:75:SER:OG	2.31	0.45
9:KD:1:MET:SD	8:KE:72:PRO:HG3	2.56	0.45
9:KD:327:ASP:OD1	9:KD:328:GLU:N	2.50	0.45
8:KG:47:ASP:N	8:KG:47:ASP:OD1	2.49	0.45
9:KH:321:MET:SD	9:KH:321:MET:N	2.90	0.45
9:KN:215:LEU:HD21	9:KN:273:LEU:HB3	1.98	0.45
8:LE:381:THR:OG1	8:LE:382:THR:N	2.50	0.45
9:LH:375:GLN:OE1	9:LH:423:GLN:HG2	2.17	0.45
9:MB:305:PRO:HD2	9:MB:306:ARG:HG3	1.98	0.45
9:MD:328:GLU:OE1	9:MD:329:GLN:NE2	2.48	0.45
8:MG:219:ILE:O	8:MG:219:ILE:HG13	2.17	0.45
8:MG:415:GLU:OE1	8:MG:415:GLU:N	2.45	0.45
9:MJ:344:TRP:CD1	9:MJ:344:TRP:H	2.34	0.45
8:MK:234:ILE:HD11	8:MK:272:TYR:HB2	1.98	0.45
9:ML:381:ILE:HB	9:ML:415:MET:HE1	1.98	0.45
9:MN:252:LYS:HA	8:MO:100:ALA:HB1	1.99	0.45
15:N2:273:ASN:ND2	15:N2:284:ILE:HD13	2.31	0.45
8:NA:318:LEU:HB2	8:NA:376:CYS:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NB:24:ILE:HA	9:NB:27:GLU:HB2	1.99	0.45
9:NB:252:LYS:NZ	50:NC:501:GTP:O3G	2.46	0.45
8:NE:215:ARG:NH1	8:NE:216:ASN:OD1	2.50	0.45
9:NF:4:ILE:HB	9:NF:50:TYR:CE1	2.52	0.45
8:NG:68:VAL:HG23	8:NG:93:ILE:HB	1.99	0.45
8:NG:116:ASP:HB2	36:Y4:108:PRO:HA	1.98	0.45
8:NI:328:VAL:HG11	8:NI:353:VAL:HG11	1.98	0.45
9:NJ:122:LYS:NZ	36:Y4:54:ARG:HG3	2.32	0.45
9:NJ:238:THR:OG1	9:NJ:318:ARG:NH1	2.49	0.45
9:NJ:392:LYS:HD2	9:NJ:395:LEU:CD2	2.47	0.45
8:NK:257:THR:HA	9:NL:397:TRP:CH2	2.51	0.45
8:NK:326:LYS:HE2	9:NL:220:PRO:HD2	1.99	0.45
9:NL:174:LYS:HE3	9:NL:205:GLU:HG3	1.98	0.45
25:O5:306:LYS:HD3	25:O5:306:LYS:H	1.80	0.45
17:O7:298:LEU:HD23	17:O7:298:LEU:HA	1.74	0.45
8:OC:413:MET:HE3	8:OC:413:MET:C	2.42	0.45
8:OE:338:LYS:HZ3	36:Y4:140:ALA:HB3	1.80	0.45
8:OG:136:LEU:HA	8:OG:167:LEU:HG	1.98	0.45
9:OH:313:VAL:HG13	9:OH:367:PHE:HE1	1.81	0.45
8:OK:4:CYS:HA	8:OK:134:GLY:O	2.17	0.45
9:OL:164:MET:SD	9:OL:196:THR:HA	2.56	0.45
8:OM:331:ALA:O	8:OM:334:THR:OG1	2.34	0.45
9:OP:52:ASN:N	9:OP:60:VAL:O	2.40	0.45
9:OP:178:THR:HB	9:OP:181:GLU:HB2	1.99	0.45
9:OP:330:MET:SD	9:OP:349:VAL:HB	2.57	0.45
17:P9:164:ASP:OD1	17:P9:165:ALA:N	2.49	0.45
8:PC:208:ALA:O	8:PC:212:ILE:HG22	2.16	0.45
8:PC:269:LEU:O	8:PC:379:SER:OG	2.31	0.45
9:PD:336:LYS:HD3	9:PD:336:LYS:H	1.81	0.45
9:QB:118:ASP:OD1	9:QB:121:ARG:NH2	2.48	0.45
9:QB:248:ALA:HA	9:QB:252:LYS:HG3	1.98	0.45
8:QC:130:THR:OG1	8:QC:131:GLY:N	2.49	0.45
8:QE:288:VAL:O	8:QE:292:THR:HG22	2.16	0.45
9:QF:165:ASN:HB3	9:QF:200:TYR:HE2	1.81	0.45
8:QI:52:PHE:HE2	8:QI:243:ARG:HH11	1.64	0.45
9:QJ:345:ILE:HA	8:QK:398:MET:HE1	1.98	0.45
9:QL:219:THR:O	9:QL:219:THR:OG1	2.24	0.45
8:QM:264:ARG:NH1	8:QM:431:ASP:OD2	2.49	0.45
9:QN:304:ASP:HB3	9:QN:307:HIS:CD2	2.51	0.45
11:R0:272:MET:HE1	11:R0:380:LYS:HD3	1.96	0.45
11:R0:305:ARG:H	11:R0:305:ARG:HG2	1.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R0:319:GLU:CB	11:R1:202:LYS:HD2	2.47	0.45
11:R1:290:ILE:HG21	11:R1:367:PHE:HE1	1.81	0.45
11:R4:285:ASN:O	11:R4:289:GLU:HG2	2.16	0.45
8:RC:311:LYS:HA	8:RC:342:GLN:HB2	1.99	0.45
9:RH:114:ASP:OD1	9:RH:115:SER:N	2.50	0.45
8:RI:6:SER:HB3	8:RI:8:HIS:NE2	2.31	0.45
9:RJ:91:VAL:HG12	9:RJ:112:LEU:HD11	1.99	0.45
9:RJ:131:GLN:HG2	9:RJ:251:ARG:HH21	1.81	0.45
9:RL:319:GLY:HA3	9:RL:363:MET:HE1	1.98	0.45
12:S0:344:ASN:OD1	12:S0:477:ARG:NH1	2.49	0.45
12:S3:117:SER:O	12:S3:121:ARG:HG2	2.17	0.45
12:S5:476:MET:N	12:S5:476:MET:SD	2.89	0.45
12:S8:121:ARG:HD2	12:S9:374:GLN:NE2	2.31	0.45
9:SD:311:LEU:N	9:SD:370:ASN:O	2.46	0.45
8:SE:298:PRO:HG3	8:SE:308:ARG:HE	1.81	0.45
8:SI:291:ILE:HG13	8:SI:375:VAL:HG21	1.97	0.45
9:SJ:344:TRP:HH2	8:SK:400:ALA:HB3	1.82	0.45
8:SK:248:LEU:HD21	9:SL:222:TYR:HE2	1.81	0.45
9:SN:26:ASP:HB3	9:SN:359:ARG:HH21	1.82	0.45
9:SN:224:ASP:O	9:SN:228:LEU:HD13	2.17	0.45
14:T0:63:ARG:HH22	14:T1:411:SER:HB3	1.81	0.45
14:T1:137:ARG:HG3	14:T1:444:ALA:HB3	1.98	0.45
14:T2:262:HIS:CD2	30:W0:206:LEU:HD21	2.52	0.45
14:T4:118:GLN:HE21	14:T4:215:TRP:NE1	2.14	0.45
14:T4:138:LEU:HD21	14:T4:282:ILE:HG23	1.99	0.45
8:TA:166:LYS:N	8:TA:199:ASP:OD2	2.47	0.45
9:TF:19:LYS:HE2	9:TF:223:GLY:HA2	1.99	0.45
9:TJ:63:ALA:HB3	9:TJ:85:PHE:HE1	1.81	0.45
9:TL:134:GLN:NE2	9:TL:233:MET:HE1	2.31	0.45
9:TL:151:LEU:HD12	9:TL:151:LEU:H	1.81	0.45
30:U6:116:LEU:HD13	30:U7:440:THR:HG21	1.99	0.45
30:U6:127:LYS:HD2	30:U7:426:THR:HB	1.99	0.45
30:U7:190:VAL:HG13	30:U7:472:MET:HB3	1.99	0.45
9:UB:289:LEU:HD11	9:UB:363:MET:HG3	1.99	0.45
9:UD:55:THR:HG23	9:VD:283:ALA:HA	1.98	0.45
8:UE:242:LEU:HD21	8:UE:251:ASP:HA	1.98	0.45
9:UH:198:GLU:HB2	9:UH:266:PHE:CE2	2.49	0.45
9:UL:156:ARG:HG3	9:UL:195:ASN:HB3	1.98	0.45
8:UM:271:THR:HB	8:UM:377:MET:HB3	1.98	0.45
8:UO:242:LEU:HD21	8:UO:252:LEU:HD22	1.99	0.45
25:V:29:GLN:O	25:V:41:ARG:NH2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:V:97:LEU:HB2	25:V:124:TYR:HB3	1.99	0.45
30:V1:467:ASP:N	30:V1:467:ASP:OD1	2.49	0.45
30:V2:112:TRP:HA	30:V2:115:ARG:HG2	1.99	0.45
30:V3:111:LEU:HG	30:V3:115:ARG:HH12	1.82	0.45
30:V7:397:ALA:O	30:V7:400:THR:OG1	2.28	0.45
8:VA:139:HIS:O	8:VA:170:ALA:HA	2.17	0.45
9:VB:72:THR:O	9:VB:75:SER:OG	2.28	0.45
9:VB:174:LYS:NZ	9:VB:205:GLU:OE2	2.38	0.45
9:VB:230:SER:HA	9:VB:233:MET:HE1	1.99	0.45
8:VC:319:TYR:CE2	8:VC:328:VAL:HG22	2.52	0.45
8:VC:402:ARG:HD3	8:VC:402:ARG:HA	1.60	0.45
9:VH:215:LEU:HB2	9:VH:217:LEU:HD22	1.97	0.45
8:VI:206:ASN:HB3	8:VI:210:TYR:CZ	2.51	0.45
8:VI:223:THR:OG1	8:VI:224:TYR:N	2.50	0.45
8:VI:264:ARG:HH12	8:VI:428:LEU:HA	1.82	0.45
8:VO:413:MET:HE1	8:VO:417:GLU:OE1	2.16	0.45
30:W2:349:GLU:HA	30:W2:352:ASP:OD1	2.16	0.45
30:W4:382:ILE:HD12	30:W4:431:LYS:HD2	1.98	0.45
9:WB:189:VAL:HA	9:WB:192:LEU:HD23	1.99	0.45
9:WB:257:MET:HE3	9:WB:266:PHE:CE1	2.52	0.45
8:WE:132:LEU:HD23	8:WE:164:LYS:HE3	1.99	0.45
8:WG:196:GLU:N	8:WG:196:GLU:OE2	2.49	0.45
8:WG:352:LYS:NZ	9:WH:178:THR:OG1	2.47	0.45
8:WK:60:LYS:NZ	8:WK:85:GLN:O	2.50	0.45
34:X7:214:ASP:OD1	34:X7:214:ASP:N	2.47	0.45
34:X7:239:ARG:HB2	34:X7:266:TRP:HB2	1.99	0.45
35:XB:93:VAL:HA	35:XB:151:THR:HA	1.97	0.45
35:XC:169:ASP:OD1	35:XC:169:ASP:N	2.37	0.45
35:XF:95:ASP:OD1	35:XF:99:VAL:N	2.44	0.45
35:XH:75:PHE:HB3	35:XH:133:GLN:HE21	1.81	0.45
37:YB:66:PRO:HA	37:YB:81:LYS:NZ	2.31	0.45
37:YB:93:LEU:HD23	37:YB:129:VAL:HG21	1.98	0.45
37:YD:175:ARG:NH1	37:YD:175:ARG:O	2.41	0.45
37:YF:102:GLU:HB3	37:YF:108:GLU:HB3	1.99	0.45
37:YG:178:LEU:HD11	37:YG:228:ILE:HG12	1.99	0.45
31:Z:219:LEU:HA	31:Z:222:PHE:HB3	1.99	0.45
31:Z:451:ILE:HG21	31:Z:725:PRO:HG2	1.97	0.45
41:b2:182:ARG:CZ	41:b2:185:ARG:HH12	2.30	0.45
42:e:340:PHE:CZ	42:e:594:ARG:HB2	2.52	0.45
42:f:20:ILE:HD12	42:f:611:ILE:O	2.17	0.45
44:h3:118:MET:HE2	44:h3:121:HIS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:l:70:MET:HG2	45:l:74:ILE:HD11	1.97	0.45
47:p:153:LEU:H	47:p:153:LEU:HD23	1.81	0.45
2:1:495:ARG:HE	2:1:495:ARG:C	2.21	0.45
3:3:145:ARG:HH21	9:GL:33:THR:HB	1.81	0.45
4:6:254:LYS:HA	4:6:254:LYS:HD2	1.79	0.45
7:A2:114:LYS:HB3	7:A2:393:MET:HE1	1.99	0.45
7:A5:205:VAL:O	7:A5:206:ARG:HG2	2.17	0.45
9:AB:320:ARG:HH21	33:X4:84:LYS:HZ1	1.65	0.45
9:AD:281:TYR:OH	9:MD:83:GLN:O	2.35	0.45
9:AF:309:ARG:O	9:AF:372:THR:OG1	2.22	0.45
8:AG:21:TRP:CZ2	8:AG:65:ALA:HB2	2.52	0.45
8:AG:267:PHE:N	8:AG:268:PRO:HD3	2.32	0.45
9:AH:87:PRO:HD3	9:BH:281:TYR:CD2	2.52	0.45
9:AH:113:VAL:O	9:AH:117:LEU:HD23	2.16	0.45
9:AJ:10:GLY:O	9:AJ:14:ASN:ND2	2.49	0.45
8:AM:263:PRO:HG3	9:AN:396:HIS:CD2	2.52	0.45
10:B:73:ILE:HD11	15:E:26:MET:SD	2.56	0.45
11:B5:117:LEU:HD21	11:B5:137:LEU:HB3	1.98	0.45
9:BB:166:THR:HG23	9:BB:199:THR:HG23	1.99	0.45
9:BB:198:GLU:HB2	9:BB:266:PHE:CE2	2.50	0.45
8:BE:122:ILE:HD13	8:BE:157:LEU:HD21	1.98	0.45
8:BE:311:LYS:HD3	8:BE:344:VAL:HG22	1.97	0.45
8:BI:218:ASP:OD2	8:BI:280:LYS:NZ	2.42	0.45
10:C:330:GLU:O	10:C:334:LEU:HD22	2.17	0.45
12:C1:175:THR:O	12:C1:179:ARG:HG2	2.17	0.45
8:CC:386:GLU:OE1	8:CC:386:GLU:N	2.45	0.45
9:CH:8:GLN:HB3	9:CH:65:LEU:HA	1.99	0.45
9:CH:133:PHE:HB2	9:CH:164:MET:CE	2.47	0.45
8:CI:129:CYS:SG	8:CI:132:LEU:HB2	2.57	0.45
8:CI:326:LYS:HE3	9:CJ:220:PRO:CD	2.47	0.45
9:CJ:180:VAL:HG12	9:CJ:183:TYR:HB2	1.99	0.45
8:CM:70:LEU:HB3	8:CM:98:ASP:HA	1.97	0.45
9:CN:130:LEU:O	9:CN:162:ARG:NH1	2.42	0.45
8:CO:179:THR:OG1	50:CO:501:GTP:O3'	2.32	0.45
8:CO:188:ILE:O	8:CO:191:THR:OG1	2.33	0.45
14:D2:441:LEU:HD22	14:D2:447:GLN:NE2	2.31	0.45
14:D4:81:SER:HA	14:D5:394:LYS:HE2	1.98	0.45
14:D4:286:LEU:HD23	14:D4:286:LEU:HA	1.86	0.45
9:DB:20:PHE:CE1	9:DB:233:MET:HB3	2.52	0.45
8:DE:108:TYR:HA	8:DE:112:LYS:HE3	1.98	0.45
8:DE:254:GLU:HG2	9:DF:98:GLY:HA2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DG:294:ALA:HA	8:DG:297:GLU:HG3	1.99	0.45
9:DH:407:GLU:HA	9:DH:410:GLU:HG2	1.99	0.45
8:DI:72:PRO:HA	8:DI:94:THR:CG2	2.46	0.45
8:DO:107:HIS:HA	8:DO:152:LEU:HD23	1.99	0.45
9:DP:294:PHE:CE2	9:DP:333:VAL:HG11	2.52	0.45
9:ED:130:LEU:O	9:ED:162:ARG:NH1	2.43	0.45
8:EG:258:ASN:HD22	8:EG:258:ASN:H	1.63	0.45
8:EK:80:THR:HG22	17:Z4:217:ALA:HA	1.98	0.45
9:EL:261:PRO:HG3	8:EM:406:HIS:CD2	2.52	0.45
9:EN:209:ASP:O	9:EN:213:ARG:NE	2.50	0.45
8:FA:88:HIS:CE1	8:FA:90:GLU:HB3	2.52	0.45
8:FC:125:LEU:HD23	8:FC:125:LEU:HA	1.82	0.45
8:FE:154:MET:HE1	8:FE:168:GLU:HG2	1.98	0.45
8:FG:339:ARG:NH1	8:FG:342:GLN:HG2	2.28	0.45
9:FH:156:ARG:NH1	9:FH:197:ASP:OD1	2.50	0.45
8:FK:3:GLU:H	8:FK:133:GLN:HG2	1.81	0.45
8:GA:147:SER:OG	8:GA:190:THR:OG1	2.26	0.45
8:GE:270:ALA:O	8:GE:271:THR:OG1	2.35	0.45
8:GG:137:ILE:HD13	8:GG:154:MET:HE1	1.98	0.45
8:GG:316:CYS:HB2	8:GG:378:LEU:HB2	1.98	0.45
9:GL:17:GLY:HA2	9:GL:20:PHE:HB3	1.98	0.45
8:GM:108:TYR:HA	8:GM:112:LYS:HE3	1.98	0.45
8:GO:298:PRO:HG3	8:GO:308:ARG:HE	1.82	0.45
17:H:245:ASP:O	17:H:248:ASP:N	2.50	0.45
8:HA:1:MET:HA	8:HA:1:MET:HE3	1.99	0.45
9:HB:263:LEU:HD22	9:HB:422:TYR:HD2	1.81	0.45
9:HD:371:SER:OG	9:HD:372:THR:N	2.49	0.45
8:HE:96:LYS:HE3	36:Y1:229:ASN:O	2.16	0.45
8:HE:258:ASN:ND2	8:HE:352:LYS:HB2	2.28	0.45
9:HH:226:ASN:ND2	52:HH:502:GDP:HN1	2.14	0.45
8:HI:424:ASP:O	8:HI:428:LEU:HD23	2.17	0.45
8:HM:252:LEU:HA	8:HM:255:PHE:CD2	2.52	0.45
8:HM:361:THR:OG1	8:HM:362:VAL:N	2.50	0.45
8:HO:137:ILE:HG13	8:HO:168:GLU:OE2	2.16	0.45
17:I:292:MET:SD	17:I:303:SER:OG	2.70	0.45
18:I1:55:ARG:HA	18:I1:55:ARG:HD3	1.75	0.45
18:I1:140:SER:O	18:I1:144:THR:HG23	2.17	0.45
8:IC:427:ALA:HA	8:IC:430:LYS:HD2	1.98	0.45
8:IE:287:SER:O	8:IE:291:ILE:HG12	2.15	0.45
9:IF:404:ASP:OD1	9:IF:407:GLU:N	2.40	0.45
9:IH:87:PRO:HA	9:IH:90:PHE:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IH:156:ARG:HD3	9:IH:160:PRO:HA	1.98	0.45
8:II:326:LYS:HE3	8:II:326:LYS:HB2	1.56	0.45
9:IL:151:LEU:HD12	9:IL:151:LEU:HA	1.87	0.45
8:IM:202:PHE:O	8:IM:204:VAL:HG23	2.17	0.45
8:IM:219:ILE:HG22	8:IM:222:PRO:HG3	1.99	0.45
9:IN:143:THR:HA	9:IN:147:MET:HE3	1.98	0.45
9:IP:170:VAL:HG21	9:IP:377:LEU:HD21	1.98	0.45
19:J2:193:GLN:HA	19:J2:196:LYS:HD2	1.98	0.45
19:J3:116:LEU:HD22	19:J3:150:ASN:HA	1.99	0.45
19:J4:236:TRP:CZ3	9:LN:431:GLU:HA	2.52	0.45
8:JC:21:TRP:CZ3	8:JC:63:PRO:HB3	2.52	0.45
9:JD:12:CYS:O	9:JD:16:ILE:HD12	2.17	0.45
9:JF:273:LEU:O	9:JF:292:GLN:NE2	2.47	0.45
9:JF:323:MET:HE3	9:JF:327:ASP:HB2	1.98	0.45
8:JG:65:ALA:O	8:JG:91:GLN:NE2	2.36	0.45
8:JG:119:LEU:HD23	8:JG:119:LEU:HA	1.74	0.45
9:JJ:241:ARG:HB2	9:JJ:242:PHE:CE2	2.52	0.45
8:JK:231:ILE:O	8:JK:235:VAL:HG13	2.16	0.45
8:JO:154:MET:HA	8:JO:154:MET:HE3	1.97	0.45
8:JO:200:CYS:HA	8:JO:266:HIS:HB2	1.99	0.45
8:KC:179:THR:HG1	50:KC:501:GTP:HO3'	1.56	0.45
9:KN:8:GLN:HB3	9:KN:65:LEU:HA	1.98	0.45
8:KO:407:TRP:O	8:KO:411:GLU:HG2	2.16	0.45
21:L1:150:ARG:HH22	8:VG:44:GLY:H	1.63	0.45
8:LE:304:LYS:HD3	8:LE:304:LYS:HA	1.70	0.45
9:LN:156:ARG:HG3	9:LN:195:ASN:HB3	1.98	0.45
8:LO:98:ASP:OD1	8:LO:98:ASP:N	2.40	0.45
9:LP:181:GLU:HG3	9:LP:182:PRO:HD3	1.99	0.45
8:MA:377:MET:SD	8:MA:378:LEU:N	2.89	0.45
8:ME:76:ASP:OD2	8:ME:79:ARG:NH1	2.50	0.45
8:ME:286:LEU:O	8:ME:373:ARG:NH1	2.49	0.45
9:MF:91:VAL:HG11	9:MF:116:VAL:HG22	1.98	0.45
8:MG:49:PHE:HB2	8:MG:53:PHE:HD2	1.81	0.45
8:MG:113:GLU:OE2	8:MG:113:GLU:N	2.49	0.45
9:MH:1:MET:HA	9:MH:1:MET:HE2	1.98	0.45
9:MH:117:LEU:HB3	9:MH:121:ARG:NH2	2.31	0.45
9:MH:340:TYR:OH	43:j:50:GLY:O	2.30	0.45
9:ML:293:MET:HE2	9:ML:367:PHE:HB2	1.99	0.45
9:MN:122:LYS:HE2	37:YG:28:VAL:HG22	1.98	0.45
9:MN:279:GLN:NE2	23:Q:366:PRO:HD2	2.32	0.45
8:MO:66:VAL:HG12	8:MO:68:VAL:HG13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MO:166:LYS:N	8:MO:199:ASP:OD2	2.46	0.45
9:MP:237:THR:HG22	9:MP:250:LEU:HD21	1.98	0.45
8:NA:21:TRP:CZ2	8:NA:65:ALA:HB2	2.52	0.45
8:NA:60:LYS:NZ	8:NA:86:LEU:O	2.47	0.45
9:NB:164:MET:HA	9:NB:164:MET:HE3	1.98	0.45
8:NI:53:PHE:HB3	8:NI:61:HIS:HB3	1.98	0.45
8:NI:168:GLU:O	8:NI:202:PHE:N	2.50	0.45
9:NJ:32:PRO:HG3	9:NJ:81:PHE:CE1	2.52	0.45
9:NL:325:GLU:HB2	8:NM:221:ARG:NH2	2.31	0.45
8:NM:52:PHE:HZ	8:NM:239:THR:HG21	1.81	0.45
8:NM:332:ILE:HD12	8:NM:351:PHE:CE1	2.51	0.45
24:O1:27:SER:OG	24:O1:99:GLY:O	2.35	0.45
25:O5:191:GLN:O	25:O5:195:GLU:HG2	2.17	0.45
8:OA:217:LEU:O	8:OA:219:ILE:HG13	2.17	0.45
9:OB:170:VAL:HG11	9:OB:377:LEU:HD21	1.98	0.45
9:OB:204:ASN:O	9:OB:208:TYR:N	2.41	0.45
9:OB:334:GLN:HA	9:OB:334:GLN:HE21	1.81	0.45
9:OH:285:THR:OG1	9:OH:287:PRO:HD2	2.17	0.45
8:OI:101:ASN:HD21	8:OI:180:ALA:HB1	1.82	0.45
9:OL:106:TYR:CD1	9:OL:403:MET:HE1	2.51	0.45
9:OL:372:THR:HA	9:OL:422:TYR:CE1	2.50	0.45
9:OL:415:MET:O	9:OL:419:VAL:HG22	2.16	0.45
9:ON:253:LEU:O	9:ON:256:ASN:N	2.44	0.45
9:OP:42:LEU:HA	9:OP:45:GLU:HG3	1.99	0.45
27:P3:132:PHE:CD2	27:P3:135:LEU:HD12	2.51	0.45
8:PC:346:TRP:O	9:PD:388:MET:HB3	2.17	0.45
8:PE:264:ARG:NH1	8:PE:431:ASP:OD2	2.49	0.45
9:PF:372:THR:HA	9:PF:422:TYR:CE1	2.47	0.45
9:PH:313:VAL:HG13	9:PH:367:PHE:HE1	1.82	0.45
8:PI:254:GLU:CD	8:PI:254:GLU:H	2.25	0.45
9:PJ:8:GLN:HG2	9:PJ:14:ASN:HA	1.98	0.45
8:PM:254:GLU:HG3	9:PN:98:GLY:HA2	1.98	0.45
9:PP:113:VAL:HG11	9:PP:150:LEU:HD23	1.98	0.45
28:Q1:48:ARG:NH1	12:S3:86:ASN:OD1	2.50	0.45
8:QG:85:GLN:O	8:RG:283:HIS:NE2	2.49	0.45
8:QG:169:PHE:HA	8:QG:202:PHE:HB2	1.99	0.45
9:QJ:135:LEU:HD12	9:QJ:136:THR:N	2.31	0.45
9:QJ:257:MET:HE2	9:QJ:314:ALA:HB2	1.98	0.45
9:QL:289:LEU:HG	9:QL:363:MET:HE2	1.98	0.45
8:QM:11:GLN:NE2	50:QM:501:GTP:O1A	2.50	0.45
8:QM:138:PHE:HA	8:QM:169:PHE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QN:14:ASN:HD21	9:QN:67:ASP:HB2	1.81	0.45
9:QN:374:ILE:HD12	9:QN:374:ILE:HA	1.79	0.45
9:QP:106:TYR:CD1	9:QP:403:MET:HE3	2.52	0.45
29:R:145:ASP:HB3	29:R:148:PHE:HB2	1.98	0.45
11:R1:75:LYS:HZ3	11:R1:180:MET:HA	1.82	0.45
11:R1:392:ASP:OD2	12:S6:337:TRP:NE1	2.49	0.45
11:R3:16:ASP:N	11:R3:16:ASP:OD1	2.49	0.45
8:RC:169:PHE:HA	8:RC:202:PHE:HB2	1.99	0.45
9:RD:204:ASN:OD1	52:RD:502:GDP:N2	2.48	0.45
9:RF:294:PHE:CD2	9:RF:333:VAL:HG21	2.51	0.45
8:RG:332:ILE:O	8:RG:335:ILE:HG22	2.16	0.45
8:RI:279:GLU:O	8:RI:283:HIS:CE1	2.70	0.45
9:RJ:249:ASP:H	9:RJ:252:LYS:HB2	1.81	0.45
12:S0:270:LYS:HE3	12:S1:402:GLU:OE1	2.17	0.45
12:S4:355:VAL:HG11	30:V5:333:TRP:CH2	2.52	0.45
12:S7:379:ILE:O	12:S7:383:LYS:HG2	2.17	0.45
12:S8:318:SER:O	12:S8:322:ARG:HG3	2.17	0.45
12:S9:393:LEU:HD11	12:S9:424:VAL:HG13	1.97	0.45
8:SA:252:LEU:HA	8:SA:255:PHE:CE2	2.51	0.45
8:SA:413:MET:HE3	8:SA:414:GLU:N	2.32	0.45
8:SE:215:ARG:NH2	8:SE:300:ASN:OD1	2.43	0.45
8:SE:348:PRO:HG2	9:SF:384:GLN:HG3	1.98	0.45
9:SF:198:GLU:HA	9:SF:264:HIS:HB2	1.99	0.45
8:SI:56:THR:HA	8:TI:285:GLN:HB2	1.98	0.45
8:SI:286:LEU:H	8:SI:286:LEU:HD23	1.82	0.45
8:SI:333:ALA:O	8:SI:337:THR:HG23	2.17	0.45
8:SK:56:THR:HA	8:TK:285:GLN:HB2	1.97	0.45
8:SK:395:PHE:HA	8:SK:398:MET:HE2	1.97	0.45
25:T:267:TYR:HD1	25:T:294:ARG:HD3	1.81	0.45
14:T1:65:HIS:O	14:T1:69:ALA:N	2.44	0.45
14:T1:437:TYR:CD2	14:T1:442:GLN:HG3	2.51	0.45
14:T2:339:LEU:O	14:T2:343:ILE:HG12	2.17	0.45
14:T4:286:LEU:HD23	14:T4:286:LEU:HA	1.77	0.45
8:TC:21:TRP:CH2	8:TC:52:PHE:HB3	2.52	0.45
9:TD:36:TYR:CD1	9:TD:44:LEU:HD22	2.51	0.45
9:TJ:7:LEU:HB2	9:TJ:135:LEU:HB2	1.99	0.45
9:TL:156:ARG:NH1	9:TL:197:ASP:OD1	2.50	0.45
8:TM:71:GLU:OE1	8:TM:71:GLU:N	2.50	0.45
8:TM:201:ALA:O	8:TM:268:PRO:HD2	2.17	0.45
9:TN:267:MET:HG2	9:TN:299:MET:HE3	1.98	0.45
30:U6:145:ARG:HH22	30:U7:402:ARG:HH11	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U8:355:ASN:HA	30:U8:358:GLN:HG3	1.99	0.45
8:UA:169:PHE:CE2	8:UA:202:PHE:HD2	2.26	0.45
8:UE:56:THR:OG1	8:UE:60:LYS:HG2	2.17	0.45
9:UF:69:GLU:HG2	9:UF:71:GLY:H	1.81	0.45
9:UF:150:LEU:O	9:UF:153:SER:OG	2.26	0.45
8:UM:215:ARG:NH2	8:UM:300:ASN:OD1	2.49	0.45
9:UN:8:GLN:NE2	9:UN:14:ASN:HA	2.32	0.45
8:UO:311:LYS:H	8:UO:382:THR:HG22	1.81	0.45
25:V:293:ASN:OD1	25:V:294:ARG:N	2.50	0.45
30:V0:415:ARG:HG3	30:V1:141:ASN:HD22	1.82	0.45
30:V1:310:MET:HA	30:V1:310:MET:HE3	1.98	0.45
30:V5:361:LEU:HD12	30:V5:455:LEU:HD13	1.97	0.45
30:V6:443:LEU:HD22	30:V6:446:MET:HE1	1.98	0.45
30:V8:240:ILE:HA	30:V8:243:ASN:HD22	1.82	0.45
8:VC:370:LYS:HE3	39:a:315:ILE:HA	1.99	0.45
8:VE:152:LEU:O	8:VE:156:ARG:HG2	2.17	0.45
8:VG:252:LEU:HA	8:VG:255:PHE:CZ	2.52	0.45
8:VG:326:LYS:NZ	9:VH:219:THR:HA	2.32	0.45
8:VK:311:LYS:H	8:VK:382:THR:HG22	1.82	0.45
9:VL:8:GLN:HG2	9:VL:14:ASN:HA	1.99	0.45
8:VM:25:CYS:SG	8:VM:26:LEU:HD22	2.57	0.45
9:VN:262:ARG:HH21	9:VN:418:LEU:HB2	1.82	0.45
31:W:616:LEU:O	31:W:620:ILE:HG12	2.17	0.45
8:WE:105:ARG:HH21	8:WE:110:ILE:HG13	1.82	0.45
8:WE:139:HIS:O	8:WE:170:ALA:HA	2.17	0.45
8:WE:325:PRO:HA	8:WE:328:VAL:HB	1.98	0.45
9:WN:1:MET:HE3	9:WN:2:ARG:H	1.82	0.45
9:WN:164:MET:SD	9:WN:196:THR:HA	2.56	0.45
35:XA:20:LYS:HG3	35:XA:23:GLN:HB3	1.98	0.45
35:XA:170:ARG:HG2	35:XA:172:TYR:CE1	2.52	0.45
35:XE:74:PRO:HA	35:XE:136:LEU:HD12	1.98	0.45
31:Y:5:PHE:O	31:Y:6:LEU:HD23	2.17	0.45
31:Y:253:TYR:HD1	31:Y:260:VAL:HG22	1.81	0.45
31:Y:536:ASN:OD1	31:Y:536:ASN:N	2.49	0.45
37:YF:195:ILE:HG13	37:YF:197:TYR:CE1	2.52	0.45
37:YH:88:ASP:H	37:YH:92:TYR:HE1	1.65	0.45
31:Z:622:ARG:NH1	31:Z:625:GLU:OE1	2.50	0.45
40:a1:45:ARG:HA	40:a1:48:ARG:CZ	2.46	0.45
40:a3:74:THR:O	40:a3:78:VAL:HG23	2.17	0.45
40:a3:77:TRP:O	40:a3:81:GLU:HG2	2.16	0.45
39:b:404:ARG:O	39:b:408:GLU:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:b4:198:LEU:HD12	41:b4:201:TRP:CE3	2.51	0.45
39:c:228:LEU:O	39:c:232:MET:HE2	2.16	0.45
39:c:254:ARG:C	39:c:258:LYS:HE2	2.42	0.45
39:c:365:LYS:HA	39:c:368:GLU:HG3	1.97	0.45
42:e:201:THR:HG22	42:e:239:LEU:HB2	1.98	0.45
42:f:14:LEU:HD21	42:f:615:LYS:HB3	1.99	0.45
42:f:79:ILE:HB	42:f:96:TRP:HB2	1.99	0.45
42:f:471:LYS:HD3	42:f:471:LYS:HA	1.80	0.45
42:g:296:ILE:HG12	42:g:307:VAL:HG22	1.98	0.45
44:h1:84:LEU:HD12	44:h1:85:GLU:HG2	1.99	0.45
43:i:205:GLU:HG2	43:i:206:GLU:OE1	2.16	0.45
46:i3:1340:TRP:CE3	46:i3:1404:VAL:HG21	2.52	0.45
43:j:120:LYS:HE2	43:j:120:LYS:HB2	1.73	0.45
4:j1:72:GLU:HA	4:j1:75:ARG:HH21	1.81	0.45
4:j1:193:ARG:HE	4:j1:193:ARG:HB2	1.65	0.45
45:m:110:ARG:HB2	45:m:110:ARG:NH1	2.32	0.45
47:p:414:LYS:HE3	47:p:414:LYS:HB3	1.61	0.45
2:1:578:PHE:O	2:1:581:GLN:HG3	2.17	0.45
3:3:267:LYS:O	3:3:271:GLU:HG2	2.16	0.45
3:3:277:LYS:O	3:3:281:ARG:HG3	2.17	0.45
9:AB:174:LYS:HE2	9:AB:174:LYS:HB2	1.76	0.45
9:AB:211:CYS:HA	9:AB:215:LEU:HD13	1.99	0.45
8:AC:209:ILE:HG23	8:AC:230:LEU:HD23	1.98	0.45
8:AG:248:LEU:HD11	9:AH:177:ASP:OD1	2.17	0.45
8:AG:287:SER:O	8:AG:291:ILE:HG23	2.17	0.45
9:AL:276:ARG:NH2	31:Y:35:LEU:O	2.50	0.45
9:AN:27:GLU:OE1	9:AN:241:ARG:NH2	2.46	0.45
9:AN:167:PHE:CE1	9:AN:233:MET:HG2	2.52	0.45
10:B:184:ARG:O	10:B:184:ARG:NE	2.45	0.45
10:B:186:GLN:O	10:B:189:LEU:N	2.45	0.45
10:B:222:LYS:O	10:B:226:GLU:HG2	2.16	0.45
11:B4:32:ARG:HH12	11:B5:285:ASN:C	2.24	0.45
9:BB:320:ARG:CZ	17:H:232:MET:SD	3.04	0.45
8:BC:194:THR:O	8:BC:198:SER:OG	2.34	0.45
8:BC:276:ILE:HD11	8:BC:286:LEU:HD11	1.98	0.45
8:BE:91:GLN:HG3	8:BE:121:ARG:HH21	1.81	0.45
9:BF:47:ILE:HD11	17:J:288:PHE:CE1	2.51	0.45
8:BG:205:ASP:OD1	8:BG:303:VAL:HA	2.17	0.45
9:BJ:68:LEU:HD12	9:BJ:97:ALA:HB2	1.99	0.45
9:BL:203:ASP:OD2	9:BL:206:ALA:N	2.45	0.45
8:BM:41:THR:HG21	22:M4:172:LYS:NZ	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BM:164:LYS:HD2	8:BM:164:LYS:H	1.81	0.45
8:BM:434:GLU:O	8:BM:437:VAL:HG22	2.17	0.45
9:BN:162:ARG:HG2	9:BN:162:ARG:NH1	2.32	0.45
8:BO:252:LEU:HA	8:BO:255:PHE:CD1	2.52	0.45
8:BO:326:LYS:NZ	9:BP:218:THR:HA	2.32	0.45
9:BP:113:VAL:HG11	9:BP:150:LEU:HD23	1.99	0.45
12:C0:99:TRP:HD1	12:C1:208:ILE:HG22	1.82	0.45
9:CH:226:ASN:ND2	52:CH:502:GDP:O6	2.43	0.45
9:CJ:27:GLU:OE2	9:CJ:318:ARG:NH1	2.48	0.45
9:CN:404:ASP:OD1	9:CN:404:ASP:N	2.32	0.45
8:CO:422:ARG:HH12	8:CO:426:ALA:HB2	1.81	0.45
8:CQ:208:ALA:HB2	8:CQ:304:LYS:HD3	1.98	0.45
14:D2:26:GLU:OE2	12:S2:217:LYS:NZ	2.50	0.45
14:D4:95:THR:HG21	14:D5:380:GLU:HB2	1.99	0.45
9:DB:305:PRO:HA	9:DB:373:ALA:HB2	1.99	0.45
8:DE:385:ALA:HA	8:DE:388:TRP:CZ3	2.51	0.45
9:DH:238:THR:HA	9:DH:241:ARG:HH21	1.82	0.45
8:DI:80:THR:O	8:DI:80:THR:OG1	2.28	0.45
8:DK:107:HIS:HA	8:DK:152:LEU:HD23	1.99	0.45
9:DL:164:MET:HA	9:DL:164:MET:HE2	1.98	0.45
9:DL:166:THR:HG23	9:DL:199:THR:HG23	1.98	0.45
8:DM:360:PRO:O	8:DM:370:LYS:NZ	2.37	0.45
8:DO:362:VAL:HG23	8:DO:370:LYS:HE2	1.99	0.45
9:DP:253:LEU:O	9:DP:257:MET:N	2.50	0.45
9:DP:325:GLU:O	9:DP:329:GLN:HG3	2.17	0.45
15:E:87:MET:O	15:E:235:ARG:NH1	2.50	0.45
9:EB:70:PRO:HA	9:EB:73:MET:HE1	1.97	0.45
9:EH:285:THR:HB	9:EH:287:PRO:HD2	1.99	0.45
8:EI:230:LEU:HD21	8:EI:275:VAL:HG21	1.99	0.45
9:EJ:345:ILE:HA	8:EK:398:MET:HE1	1.99	0.45
8:EM:188:ILE:O	8:EM:191:THR:OG1	2.35	0.45
15:F:293:ARG:NH2	15:F:297:GLN:OE1	2.47	0.45
8:FA:141:PHE:HB2	8:FA:173:PRO:HD3	1.99	0.45
8:FA:322:ASP:OD2	8:FA:373:ARG:NH2	2.50	0.45
8:FA:381:THR:OG1	8:FA:382:THR:N	2.45	0.45
9:FB:69:GLU:N	9:FB:69:GLU:OE1	2.50	0.45
8:FC:201:ALA:O	8:FC:268:PRO:HD2	2.17	0.45
8:FG:317:MET:SD	8:FG:377:MET:HG2	2.57	0.45
9:FH:125:GLU:HB3	36:Y2:160:SER:O	2.16	0.45
9:FJ:5:VAL:HB	9:FJ:133:PHE:HD1	1.82	0.45
9:FJ:51:TYR:HB3	9:FJ:59:TYR:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FL:197:ASP:OD1	9:FL:197:ASP:N	2.48	0.45
9:FN:221:THR:N	9:FN:224:ASP:OD2	2.50	0.45
9:FN:299:MET:N	9:FN:299:MET:HE2	2.31	0.45
9:GB:65:LEU:HD22	9:GB:90:PHE:HE1	1.82	0.45
9:GD:270:PHE:HD2	9:GD:273:LEU:HD21	1.82	0.45
8:GG:94:THR:OG1	49:y:140:THR:OG1	2.25	0.45
9:GH:189:VAL:HA	9:GH:192:LEU:HB2	1.99	0.45
9:GH:270:PHE:CD1	9:GH:272:PRO:HD2	2.52	0.45
8:GI:153:LEU:O	8:GI:157:LEU:HB2	2.17	0.45
8:GI:317:MET:HA	8:GI:317:MET:HE3	1.97	0.45
8:GK:7:ILE:HD12	8:GK:7:ILE:HG23	1.77	0.45
8:GK:76:ASP:OD1	8:GK:79:ARG:NH2	2.41	0.45
9:GN:242:PHE:HB3	9:GN:356:ILE:HD12	1.98	0.45
9:GN:293:MET:HE1	9:GN:365:ALA:C	2.42	0.45
8:HA:89:PRO:HD3	8:IA:283:HIS:ND1	2.32	0.45
9:HB:252:LYS:NZ	50:HC:501:GTP:O3G	2.34	0.45
9:HB:377:LEU:HD22	9:HB:380:ARG:NH2	2.30	0.45
8:HE:419:SER:O	8:HE:423:GLU:HG2	2.17	0.45
9:HJ:43:GLN:C	9:HJ:44:LEU:HD22	2.42	0.45
9:HL:72:THR:O	9:HL:75:SER:OG	2.24	0.45
9:HL:379:LYS:HA	9:HL:379:LYS:HD2	1.87	0.45
9:IB:4:ILE:HG21	9:IB:50:TYR:CE1	2.52	0.45
8:IC:257:THR:HA	9:ID:397:TRP:CH2	2.52	0.45
9:IF:147:MET:SD	9:IF:147:MET:N	2.83	0.45
8:IG:56:THR:HG23	8:IG:58:ALA:H	1.81	0.45
8:IG:326:LYS:HZ3	9:IH:218:THR:C	2.25	0.45
9:IH:251:ARG:HA	9:IH:254:ALA:HB3	1.98	0.45
9:IJ:36:TYR:CG	9:IJ:44:LEU:HD22	2.51	0.45
9:IN:334:GLN:OE1	9:IN:348:ASN:N	2.45	0.45
8:IO:164:LYS:O	8:IO:166:LYS:NZ	2.49	0.45
19:J2:32:PRO:HB3	19:J2:79:PRO:HA	1.99	0.45
9:JB:199:THR:HG23	9:JB:264:HIS:ND1	2.32	0.45
8:JC:438:ASP:OD1	8:JC:439:SER:N	2.50	0.45
9:JD:324:LYS:HA	8:JE:210:TYR:HE1	1.81	0.45
8:JI:15:GLN:HB3	8:JI:228:ASN:HD21	1.82	0.45
8:JI:221:ARG:HE	8:JI:221:ARG:HB2	1.56	0.45
8:JI:252:LEU:HA	8:JI:255:PHE:CE1	2.52	0.45
9:JJ:239:CYS:HB2	9:JJ:248:ALA:H	1.82	0.45
8:JK:326:LYS:HZ1	9:JL:219:THR:HA	1.82	0.45
9:JL:36:TYR:CG	9:JL:44:LEU:HD12	2.52	0.45
8:JM:320:ARG:HD3	8:JM:360:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:K1:23:ARG:HD2	9:UB:218:THR:HG22	1.98	0.45
13:K3:397:PHE:CZ	13:K3:401:ARG:HD2	2.52	0.45
8:KE:412:GLY:O	41:b2:362:HIS:NE2	2.45	0.45
9:KF:274:THR:HB	9:KF:278:SER:HB2	1.99	0.45
9:KH:24:ILE:HG12	9:KH:241:ARG:HH12	1.80	0.45
9:KJ:159:TYR:HB3	9:KJ:162:ARG:HG3	1.98	0.45
8:KM:2:ARG:HE	8:KM:242:LEU:HG	1.82	0.45
8:KO:291:ILE:HD12	8:KO:375:VAL:HG12	1.97	0.45
9:LB:91:VAL:HG12	9:LB:112:LEU:HD11	1.99	0.45
8:LC:90:GLU:HA	43:h:129:ARG:HD3	1.99	0.45
9:LD:20:PHE:HA	9:LD:230:SER:OG	2.17	0.45
9:LF:392:LYS:HE3	43:i:95:PRO:HD3	1.98	0.45
9:LL:313:VAL:HG12	9:LL:349:VAL:HG13	1.98	0.45
9:LP:213:ARG:O	9:LP:216:LYS:NZ	2.41	0.45
9:MB:27:GLU:OE2	9:MB:241:ARG:NH2	2.50	0.45
9:MB:267:MET:HE2	9:MB:299:MET:HE2	1.98	0.45
9:MF:147:MET:O	9:MF:150:LEU:N	2.49	0.45
8:MI:141:PHE:CE1	8:MI:203:MET:HE1	2.52	0.45
9:ML:309:ARG:HG3	9:ML:426:GLN:HG3	1.98	0.45
9:MN:320:ARG:HH21	23:Q:361:ILE:HD11	1.81	0.45
9:MN:321:MET:HE3	9:MN:363:MET:HG2	1.98	0.45
8:MO:147:SER:O	8:MO:151:SER:OG	2.29	0.45
9:MP:86:ARG:HA	9:MP:86:ARG:NE	2.32	0.45
8:NA:9:VAL:HG13	8:NA:149:PHE:CE2	2.52	0.45
9:NL:135:LEU:HD23	9:NL:152:ILE:HD11	1.99	0.45
9:NL:330:MET:HE3	9:NL:349:VAL:HG11	1.99	0.45
8:NM:53:PHE:CB	8:NM:61:HIS:CG	2.95	0.45
9:NN:146:GLY:O	9:NN:149:THR:OG1	2.34	0.45
17:O7:261:LEU:HD12	17:O7:264:ARG:HH21	1.81	0.45
17:O9:157:TYR:HB2	17:O9:161:ALA:HB2	1.99	0.45
8:OC:172:TYR:HD2	8:OC:205:ASP:HB3	1.80	0.45
8:OI:291:ILE:HD13	8:OI:373:ARG:NH1	2.32	0.45
8:OK:172:TYR:CD2	8:OK:205:ASP:HB3	2.51	0.45
8:OO:333:ALA:HA	8:OO:336:LYS:CE	2.46	0.45
9:OP:299:MET:HE2	9:OP:301:ALA:H	1.81	0.45
23:P:166:LYS:HE3	23:P:166:LYS:HB3	1.76	0.45
9:PD:2:ARG:O	9:PD:49:VAL:HG22	2.17	0.45
9:PD:115:SER:O	9:PD:119:VAL:HG23	2.16	0.45
9:PF:60:VAL:HG11	9:QF:281:TYR:HB3	1.98	0.45
9:PF:263:LEU:HD22	9:PF:422:TYR:HD2	1.81	0.45
9:PH:189:VAL:HA	9:PH:192:LEU:HD23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PH:274:THR:OG1	9:PH:279:GLN:OE1	2.30	0.45
8:PI:167:LEU:HD21	8:PI:255:PHE:HZ	1.81	0.45
8:PI:234:ILE:HD11	8:PI:272:TYR:HB2	1.98	0.45
9:PJ:86:ARG:HA	9:QJ:281:TYR:CD2	2.52	0.45
8:PM:311:LYS:H	8:PM:382:THR:HG22	1.82	0.45
9:PN:263:LEU:HD22	9:PN:422:TYR:CD2	2.52	0.45
28:Q4:52:THR:OG1	28:Q4:59:ALA:N	2.42	0.45
9:QB:27:GLU:OE2	9:QB:359:ARG:N	2.43	0.45
8:QE:125:LEU:HD23	8:QE:128:LEU:HD12	1.99	0.45
9:QF:344:TRP:H	9:QF:344:TRP:CD1	2.35	0.45
8:QG:206:ASN:HB3	8:QG:210:TYR:CZ	2.52	0.45
9:QH:72:THR:O	9:QH:75:SER:OG	2.27	0.45
9:QH:362:LYS:HD2	9:QH:362:LYS:C	2.42	0.45
9:QJ:231:ALA:HB1	9:QJ:270:PHE:CZ	2.51	0.45
8:QK:88:HIS:NE2	8:QK:90:GLU:HB3	2.32	0.45
9:QL:91:VAL:HG11	9:QL:116:VAL:HG22	1.99	0.45
8:QM:326:LYS:HZ2	9:QN:220:PRO:HD2	1.79	0.45
9:QP:404:ASP:OD1	9:QP:406:MET:HB3	2.16	0.45
9:RD:372:THR:HA	9:RD:422:TYR:CE1	2.50	0.45
8:RE:263:PRO:HG3	9:RF:396:HIS:CD2	2.52	0.45
9:RF:361:LEU:HD12	9:RF:362:LYS:N	2.32	0.45
9:RH:372:THR:HG21	9:RH:426:GLN:HB2	1.98	0.45
8:RI:49:PHE:HD2	8:RI:53:PHE:HB2	1.81	0.45
8:RI:108:TYR:HA	8:RI:112:LYS:HE3	1.99	0.45
9:RL:7:LEU:HB2	9:RL:135:LEU:HB3	1.98	0.45
9:RL:183:TYR:O	9:RL:187:LEU:HG	2.16	0.45
9:RL:198:GLU:HG3	9:RL:266:PHE:HE2	1.82	0.45
8:RM:286:LEU:HG	8:RM:373:ARG:HH11	1.82	0.45
9:RP:313:VAL:HA	9:RP:369:GLY:HA2	1.99	0.45
12:S0:468:ILE:HA	12:S0:472:LYS:HG2	1.99	0.45
12:S3:71:ARG:NH1	12:S4:234:ARG:HH22	2.15	0.45
12:S4:198:CYS:HA	12:S4:472:LYS:HD2	1.99	0.45
12:S7:248:ARG:HA	12:S7:248:ARG:HD2	1.76	0.45
12:S9:344:ASN:O	12:S9:348:THR:HG23	2.17	0.45
9:SB:372:THR:HA	9:SB:422:TYR:CE1	2.52	0.45
9:SD:27:GLU:O	9:SD:359:ARG:NH2	2.44	0.45
9:SD:136:THR:HG22	9:SD:167:PHE:HB2	1.99	0.45
8:SE:265:ILE:HG22	8:SE:380:ASN:HD21	1.82	0.45
8:SE:313:MET:HE1	8:SE:381:THR:HA	1.98	0.45
9:SF:242:PHE:CG	9:SF:356:ILE:HD12	2.52	0.45
8:SG:312:TYR:HE2	8:SG:341:ILE:HD12	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SG:348:PRO:HD3	9:SH:388:MET:HE3	1.98	0.45
9:SH:73:MET:SD	9:SH:74:ASP:N	2.89	0.45
9:SH:89:ASN:ND2	9:SH:123:GLU:OE2	2.50	0.45
9:SJ:238:THR:HG21	9:SJ:318:ARG:HD3	1.98	0.45
9:SJ:258:VAL:HB	8:SK:407:TRP:HZ2	1.80	0.45
8:SK:9:VAL:N	8:SK:138:PHE:O	2.36	0.45
9:SN:28:HIS:CG	9:SN:47:ILE:HG13	2.52	0.45
9:SN:112:LEU:O	9:SN:115:SER:OG	2.33	0.45
14:T0:43:THR:HG22	14:T0:45:GLY:N	2.32	0.45
14:T1:363:ARG:NH2	14:T1:374:GLN:OE1	2.50	0.45
14:T1:410:MET:SD	14:T1:411:SER:N	2.90	0.45
14:T2:232:THR:O	14:T2:235:SER:OG	2.34	0.45
14:T2:366:VAL:HG22	14:T2:367:GLU:H	1.81	0.45
14:T3:363:ARG:CZ	14:T3:368:LEU:HA	2.47	0.45
14:T4:124:LEU:HD23	14:T4:124:LEU:HA	1.81	0.45
8:TE:191:THR:HA	8:TE:194:THR:HG22	1.97	0.45
9:TF:346:PRO:HD2	8:TG:398:MET:HE2	1.99	0.45
9:TH:270:PHE:HD1	9:TH:271:ALA:H	1.64	0.45
8:TK:105:ARG:HH21	8:TK:110:ILE:HD11	1.82	0.45
8:TM:324:VAL:O	8:TM:328:VAL:HG23	2.17	0.45
9:TN:77:ARG:HH22	9:TN:87:PRO:HB3	1.81	0.45
25:U:412:MET:SD	25:U:445:ALA:HB1	2.57	0.45
30:U3:454:GLU:O	30:U3:458:LYS:HG2	2.16	0.45
9:UB:372:THR:HA	9:UB:422:TYR:CE1	2.50	0.45
8:UC:60:LYS:HB2	8:UC:60:LYS:HE3	1.80	0.45
9:UH:68:LEU:HG	9:UH:96:GLY:HA2	1.99	0.45
8:UM:297:GLU:O	8:UM:301:GLN:NE2	2.44	0.45
8:UO:93:ILE:HD13	8:UO:117:LEU:HG	1.98	0.45
8:UO:147:SER:OG	8:UO:190:THR:OG1	2.29	0.45
25:V:381:LEU:HD11	25:V:398:PHE:CE2	2.51	0.45
25:V:409:VAL:O	25:V:413:LEU:HG	2.16	0.45
30:V2:415:ARG:O	30:V2:418:ASN:N	2.49	0.45
9:VB:311:LEU:N	9:VB:370:ASN:O	2.49	0.45
8:VC:152:LEU:O	8:VC:156:ARG:HG2	2.16	0.45
9:VD:19:LYS:HA	9:VD:22:GLU:HG3	1.99	0.45
9:VD:205:GLU:HA	9:VD:208:TYR:HD2	1.80	0.45
8:VG:35:GLN:HE22	8:VG:60:LYS:HB2	1.82	0.45
8:VG:152:LEU:O	8:VG:155:GLU:HG2	2.17	0.45
8:VG:208:ALA:HB2	8:VG:304:LYS:HD2	1.97	0.45
8:VG:213:CYS:HB3	8:VG:219:ILE:HD11	1.98	0.45
8:VI:121:ARG:HH21	8:VI:124:LYS:HG2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VI:298:PRO:HA	8:VI:301:GLN:HG2	1.99	0.45
8:VM:223:THR:OG1	8:VM:224:TYR:N	2.49	0.45
8:VM:319:TYR:CE2	8:VM:328:VAL:HG22	2.52	0.45
9:VN:172:SER:HB2	9:VN:203:ASP:OD1	2.17	0.45
30:W2:372:GLU:O	30:W2:376:MET:HG3	2.16	0.45
30:W4:458:LYS:O	30:W4:462:LEU:HD12	2.16	0.45
30:W6:468:LYS:O	30:W6:472:MET:HE2	2.17	0.45
8:WA:130:THR:OG1	8:WA:131:GLY:N	2.50	0.45
9:WB:107:THR:OG1	9:WB:108:GLU:N	2.50	0.45
9:WD:8:GLN:HE21	9:WD:14:ASN:HA	1.81	0.45
8:WE:239:THR:OG1	8:WE:243:ARG:NH1	2.49	0.45
8:WE:350:GLY:HA2	9:WF:179:VAL:HG12	1.98	0.45
8:WG:6:SER:HB3	8:WG:8:HIS:CD2	2.52	0.45
9:WH:68:LEU:HB3	9:WH:96:GLY:HA2	1.99	0.45
34:X8:142:LEU:HD12	34:X8:153:THR:HG21	1.98	0.45
36:Y4:186:ARG:HG3	36:Y4:187:GLN:OE1	2.17	0.45
37:YB:146:ARG:HB3	37:YB:205:ILE:HD11	1.97	0.45
37:YE:115:ILE:HA	37:YE:118:MET:HB2	1.98	0.45
31:Z:448:VAL:HG22	31:Z:449:ASP:H	1.82	0.45
39:a:317:ARG:HE	39:a:318:ILE:HG13	1.81	0.45
41:b2:357:MET:CE	41:b2:440:HIS:HB2	2.44	0.45
39:c:149:MET:HB3	42:g:537:ILE:HD11	1.99	0.45
39:c:320:ASP:O	39:c:324:ARG:HG2	2.17	0.45
42:e:433:ILE:HG22	42:e:467:ILE:HD13	1.97	0.45
43:j:178:GLU:O	43:j:182:LYS:HG2	2.17	0.45
4:j1:144:MET:HB3	4:j1:290:ILE:HG13	1.99	0.45
45:l:75:PRO:HG3	45:l:95:TRP:CD2	2.52	0.45
1:0:74:CYS:SG	8:JO:357:TYR:OH	2.62	0.45
2:1:406:LEU:HD11	8:IA:282:TYR:HA	1.99	0.45
2:2:504:VAL:HG22	9:HP:36:TYR:HD2	1.81	0.45
3:3:92:ILE:HB	18:I1:114:ARG:NH1	2.32	0.45
3:3:371:LYS:HD3	9:GD:360:GLY:O	2.17	0.45
7:A3:127:LEU:HG	7:A4:10:ARG:HD3	1.99	0.45
9:AD:252:LYS:NZ	8:AE:101:ASN:OD1	2.49	0.45
8:AE:105:ARG:HG3	8:AE:411:GLU:HG3	1.98	0.45
8:AG:271:THR:HB	8:AG:377:MET:HB3	1.99	0.45
9:AL:345:ILE:HG23	8:AM:398:MET:HE2	1.99	0.45
8:AO:8:HIS:H	8:AO:8:HIS:CD2	2.35	0.45
11:B2:64:LEU:HD22	11:B2:186:ASP:OD1	2.16	0.45
11:B3:102:ASN:HB3	11:B3:106:LYS:NZ	2.32	0.45
8:BM:188:ILE:HD12	8:BM:188:ILE:HA	1.76	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BN:314:ALA:HB3	9:BN:368:ILE:HB	1.97	0.45
8:BO:427:ALA:HA	8:BO:430:LYS:HD2	1.99	0.45
12:C0:293:THR:HA	12:C1:411:LEU:HD22	1.98	0.45
12:C2:163:GLU:HG3	12:C2:308:VAL:HG13	1.99	0.45
12:C4:295:SER:O	12:C5:413:ARG:NH2	2.50	0.45
9:CB:27:GLU:OE2	9:CB:242:PHE:HZ	2.00	0.45
9:CB:128:ASP:OD1	9:CB:129:CYS:N	2.46	0.45
8:CC:166:LYS:N	8:CC:199:ASP:OD2	2.36	0.45
9:CD:7:LEU:HD23	9:CD:7:LEU:HA	1.87	0.45
8:CE:54:SER:HA	8:CE:64:ARG:HH21	1.82	0.45
9:CF:218:THR:HG21	22:M2:188:GLU:HG2	1.98	0.45
9:CF:224:ASP:OD1	25:U:314:GLU:HG3	2.16	0.45
9:CF:309:ARG:HD3	9:CF:340:TYR:C	2.41	0.45
8:CM:235:VAL:O	8:CM:239:THR:HG23	2.16	0.45
9:CN:156:ARG:NH1	9:CN:197:ASP:OD1	2.50	0.45
8:CQ:6:SER:HB3	8:CQ:8:HIS:CD2	2.52	0.45
8:CQ:368:LEU:HD23	8:CQ:368:LEU:HA	1.80	0.45
14:D0:241:TYR:N	14:D1:354:GLN:OE1	2.49	0.45
14:D1:47:ARG:O	14:D1:47:ARG:NH1	2.43	0.45
14:D2:63:ARG:NH1	14:D3:415:ASP:OD2	2.49	0.45
9:DF:407:GLU:HA	9:DF:410:GLU:HG2	1.99	0.45
8:DG:262:TYR:OH	9:DH:391:ARG:O	2.35	0.45
9:DH:198:GLU:HA	9:DH:264:HIS:HB2	1.98	0.45
8:DI:201:ALA:O	8:DI:268:PRO:HD2	2.17	0.45
9:DL:83:GLN:HB2	31:Y:388:ARG:NH2	2.32	0.45
9:DP:50:TYR:HE2	9:DP:241:ARG:HD3	1.82	0.45
8:DQ:2:ARG:NH2	8:DQ:133:GLN:OE1	2.43	0.45
8:DQ:5:ILE:HD12	8:DQ:135:PHE:HE1	1.82	0.45
8:DQ:67:PHE:HB2	8:DQ:92:LEU:HD22	1.99	0.45
8:EA:170:ALA:HB3	8:EA:203:MET:HE1	1.99	0.45
8:EG:51:THR:HG21	8:EG:243:ARG:HG2	1.99	0.45
9:EL:376:GLU:O	9:EL:380:ARG:HG2	2.16	0.45
9:EN:41:ASP:N	9:EN:41:ASP:OD1	2.50	0.45
8:EO:321:GLY:HA3	8:EO:373:ARG:HA	1.99	0.45
8:FA:276:ILE:HG12	8:FA:281:ALA:HB2	1.98	0.45
8:FC:153:LEU:HD12	8:FC:154:MET:HG2	1.99	0.45
8:FG:297:GLU:HG3	8:FG:299:ALA:H	1.81	0.45
9:FH:267:MET:HB3	9:FH:299:MET:HE2	1.98	0.45
9:FJ:11:GLN:O	9:FJ:15:GLN:NE2	2.48	0.45
8:FK:191:THR:HA	8:FK:194:THR:HG22	1.99	0.45
9:FL:31:ASP:OD1	9:FL:35:THR:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FL:135:LEU:HD23	9:FL:152:ILE:HD11	1.98	0.45
8:FM:211:ASP:OD2	8:FM:215:ARG:NH2	2.50	0.45
8:GC:108:TYR:HA	8:GC:112:LYS:HE3	1.99	0.45
8:GC:225:THR:HA	8:GC:228:ASN:HB2	1.99	0.45
9:GD:297:LYS:HD3	36:Y2:241:LYS:H	1.81	0.45
8:GE:135:PHE:HE2	8:GE:161:TYR:HD1	1.65	0.45
9:GF:406:MET:HE3	9:GF:409:THR:OG1	2.16	0.45
8:GI:139:HIS:O	8:GI:170:ALA:HA	2.17	0.45
8:GK:171:ILE:HD13	8:GK:204:VAL:HG23	1.98	0.45
9:GL:72:THR:O	9:GL:75:SER:OG	2.21	0.45
8:GM:96:LYS:HD2	8:GM:96:LYS:HA	1.63	0.45
8:GM:239:THR:HG22	8:GM:243:ARG:HG3	1.99	0.45
8:GM:384:ILE:HG23	8:GM:388:TRP:CZ3	2.51	0.45
9:GN:249:ASP:OD1	9:GN:252:LYS:N	2.45	0.45
8:GO:393:HIS:O	8:GO:397:LEU:HD23	2.17	0.45
9:HB:330:MET:HE1	9:HB:351:THR:HG22	1.98	0.45
9:HF:334:GLN:OE1	9:HF:348:ASN:N	2.50	0.45
9:HH:313:VAL:HG13	9:HH:367:PHE:HE1	1.81	0.45
9:HJ:337:ASN:HB3	9:HJ:340:TYR:HD2	1.82	0.45
8:HK:123:ARG:HE	36:Y1:102:GLY:CA	2.30	0.45
9:HL:1:MET:HE3	9:HL:2:ARG:HB2	1.99	0.45
9:HL:192:LEU:HD13	9:HL:196:THR:OG1	2.17	0.45
8:HO:217:LEU:HD21	8:HO:275:VAL:HB	1.97	0.45
8:IA:346:TRP:HZ2	8:IA:435:VAL:HG13	1.82	0.45
9:IB:154:LYS:HE2	9:IB:154:LYS:HB3	1.75	0.45
9:IB:275:SER:N	9:IB:278:SER:OG	2.49	0.45
9:IF:101:TRP:HZ3	9:IF:106:TYR:OH	2.00	0.45
8:IG:316:CYS:HA	8:IG:352:LYS:HB2	1.97	0.45
8:IK:2:ARG:HB3	8:IK:242:LEU:HD23	1.99	0.45
8:IK:101:ASN:HA	8:IK:144:GLY:N	2.30	0.45
8:IK:113:GLU:N	8:IK:113:GLU:OE1	2.50	0.45
9:IL:68:LEU:HA	9:IL:68:LEU:HD23	1.65	0.45
8:IM:7:ILE:HD13	8:IM:7:ILE:HA	1.85	0.45
8:IM:111:GLY:O	8:IM:115:VAL:HG23	2.17	0.45
8:IO:53:PHE:C	8:IO:64:ARG:HE	2.25	0.45
19:J1:187:TYR:HA	19:J1:190:LEU:HG	1.97	0.45
8:JM:178:SER:OG	8:JM:180:ALA:O	2.35	0.45
9:JN:324:LYS:NZ	8:JO:221:ARG:HA	2.18	0.45
8:JO:313:MET:HE3	8:JO:346:TRP:CZ2	2.52	0.45
9:JP:50:TYR:HE2	9:JP:241:ARG:HE	1.64	0.45
9:JP:269:GLY:N	9:JP:367:PHE:O	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JQ:111:GLY:O	8:JQ:115:VAL:HG13	2.17	0.45
20:K1:12:ASN:OD1	20:K1:13:GLN:N	2.50	0.45
9:KD:31:ASP:OD2	9:KD:33:THR:OG1	2.35	0.45
9:KD:331:LEU:HD22	8:KE:177:VAL:HG13	1.97	0.45
9:KD:341:PHE:HE1	9:KD:348:ASN:CB	2.29	0.45
9:KD:346:PRO:HD2	8:KE:398:MET:HE2	1.98	0.45
8:KE:209:ILE:HB	8:KE:227:LEU:HD22	1.99	0.45
8:KG:75:VAL:HG12	8:KG:79:ARG:HE	1.82	0.45
8:KI:311:LYS:H	8:KI:382:THR:HG22	1.82	0.45
9:KJ:324:LYS:HB2	9:KJ:325:GLU:OE1	2.17	0.45
9:KL:177:ASP:OD1	52:KL:502:GDP:O3'	2.30	0.45
8:KM:111:GLY:O	8:KM:115:VAL:HG23	2.16	0.45
8:KO:244:PHE:HE2	8:KO:320:ARG:HH21	1.65	0.45
9:KP:65:LEU:HD21	9:KP:76:VAL:HG21	1.98	0.45
9:KP:114:ASP:OD1	9:KP:114:ASP:N	2.46	0.45
9:LB:55:THR:HG21	23:P:365:GLN:HE21	1.81	0.45
8:LC:10:GLY:O	8:LC:14:VAL:HG23	2.16	0.45
9:LD:101:TRP:HZ3	9:LD:403:MET:HE1	1.81	0.45
9:LF:11:GLN:O	9:LF:15:GLN:HG2	2.17	0.45
8:LG:85:GLN:O	8:MG:283:HIS:NE2	2.50	0.45
8:LG:88:HIS:HE1	8:LG:90:GLU:HG3	1.82	0.45
8:LG:280:LYS:HE3	8:LG:280:LYS:HB2	1.78	0.45
9:LJ:155:ILE:HD11	9:LJ:164:MET:HE3	1.99	0.45
8:LK:70:LEU:HB3	8:LK:98:ASP:HA	1.98	0.45
9:LN:54:ALA:HA	9:MN:283:ALA:HB2	1.99	0.45
22:M4:128:THR:OG1	22:M4:130:ILE:HG12	2.17	0.45
22:M4:156:LEU:HD21	27:P6:81:LEU:HD21	1.98	0.45
8:MA:396:ASP:HB2	8:MA:422:ARG:HH21	1.81	0.45
9:MB:258:VAL:HG23	8:MC:407:TRP:HE1	1.82	0.45
8:MC:151:SER:HB2	8:MC:193:THR:HG21	1.98	0.45
9:MD:139:LEU:HD12	9:MD:170:VAL:HG12	1.99	0.45
9:MD:182:PRO:O	9:MD:186:THR:HG23	2.16	0.45
9:MJ:5:VAL:HG22	9:MJ:62:ARG:HD2	1.98	0.45
9:MJ:271:ALA:O	9:MJ:292:GLN:HG2	2.16	0.45
8:MK:287:SER:HA	8:MK:373:ARG:HD2	1.98	0.45
9:ML:238:THR:HG21	9:ML:318:ARG:HD2	1.98	0.45
8:MM:377:MET:HE3	8:MM:379:SER:HB3	1.99	0.45
8:MM:402:ARG:HD3	8:MM:402:ARG:HA	1.90	0.45
9:MN:215:LEU:HD21	9:MN:273:LEU:HB2	1.99	0.45
8:MO:248:LEU:H	8:MO:355:ILE:HG23	1.82	0.45
9:NB:161:ASP:OD2	9:NB:162:ARG:NH1	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ND:268:PRO:HA	9:ND:367:PHE:O	2.16	0.45
9:NF:146:GLY:O	9:NF:149:THR:OG1	2.27	0.45
8:NI:186:ASN:OD1	8:NI:408:TYR:OH	2.25	0.45
9:NL:226:ASN:HA	9:NL:229:VAL:HG22	1.98	0.45
8:NM:246:GLY:HA2	8:NM:357:TYR:HD1	1.81	0.45
9:NN:27:GLU:HA	9:NN:359:ARG:HD2	1.98	0.45
23:O:20:ARG:O	23:O:24:LYS:HG2	2.17	0.45
24:O2:66:GLN:N	24:O2:66:GLN:OE1	2.50	0.45
24:O2:103:LEU:HD12	24:O2:103:LEU:HA	1.86	0.45
17:O7:237:ARG:H	17:O7:237:ARG:HG2	1.52	0.45
8:OA:51:THR:O	8:OA:64:ARG:NH1	2.47	0.45
9:OF:6:HIS:HA	9:OF:134:GLN:HB3	1.98	0.45
8:OI:214:ARG:HH21	36:Y4:82:ASP:HB3	1.82	0.45
9:OL:167:PHE:CG	9:OL:233:MET:SD	3.10	0.45
9:OL:198:GLU:HB2	9:OL:266:PHE:HE2	1.82	0.45
8:OM:223:THR:OG1	8:OM:224:TYR:N	2.48	0.45
8:OM:338:LYS:HE3	36:Y5:220:ALA:HB2	1.99	0.45
9:ON:87:PRO:HD3	9:PN:281:TYR:CD2	2.51	0.45
27:P3:171:ARG:CZ	27:P3:171:ARG:HA	2.47	0.45
27:P5:135:LEU:HG	17:P8:52:PRO:HB3	1.98	0.45
8:PC:6:SER:HB3	8:PC:8:HIS:CD2	2.52	0.45
8:PC:224:TYR:CD1	8:PC:227:LEU:HD22	2.52	0.45
8:PE:219:ILE:HG22	8:PE:221:ARG:H	1.81	0.45
8:PG:83:TYR:HB3	8:PG:86:LEU:HB3	1.98	0.45
8:PG:212:ILE:HD11	8:PG:275:VAL:CG2	2.47	0.45
8:PG:309:HIS:ND1	8:PG:386:GLU:OE2	2.50	0.45
8:PI:331:ALA:O	8:PI:335:ILE:HG12	2.16	0.45
9:PL:139:LEU:HD21	9:PL:168:SER:HB2	1.99	0.45
8:PM:150:ALA:HA	8:PM:153:LEU:HG	1.99	0.45
8:PO:70:LEU:HD12	8:PO:70:LEU:HA	1.87	0.45
9:PP:147:MET:O	9:PP:151:LEU:N	2.42	0.45
9:QD:227:HIS:O	9:QD:231:ALA:N	2.45	0.45
9:QF:256:ASN:ND2	8:QG:182:VAL:HG12	2.32	0.45
8:QI:229:ARG:HH11	8:QI:229:ARG:HA	1.82	0.45
9:QL:323:MET:HE1	9:QL:353:VAL:HG21	1.99	0.45
8:QO:322:ASP:OD1	8:QO:373:ARG:HB3	2.17	0.45
11:R2:110:LEU:O	11:R2:114:ILE:HG22	2.16	0.45
11:R2:403:LYS:HD3	11:R2:405:VAL:HG13	1.98	0.45
8:RI:11:GLN:NE2	50:RI:501:GTP:O1A	2.49	0.45
8:RI:167:LEU:HD11	8:RI:256:GLN:HE21	1.82	0.45
8:RM:152:LEU:HD12	8:RM:153:LEU:HD22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RM:217:LEU:O	8:RM:218:ASP:HB2	2.16	0.45
8:RO:8:HIS:CE1	8:RO:17:GLY:HA2	2.51	0.45
9:RP:330:MET:HA	9:RP:333:VAL:HG12	1.99	0.45
12:S0:319:ALA:HA	12:S0:322:ARG:HH21	1.81	0.45
12:S1:45:SER:OG	12:S7:324:GLU:OE1	2.28	0.45
12:S1:210:LEU:HD23	12:S1:210:LEU:HA	1.84	0.45
12:S4:394:LYS:HA	12:S4:394:LYS:HD2	1.48	0.45
12:S6:473:CYS:O	12:S6:477:ARG:N	2.44	0.45
12:S8:141:HIS:ND1	12:S8:141:HIS:C	2.75	0.45
12:S9:171:THR:O	12:S9:175:THR:OG1	2.35	0.45
8:SA:292:THR:HG21	8:SA:331:ALA:HB1	1.99	0.45
8:SE:30:ILE:HG13	8:SE:36:MET:HE1	1.99	0.45
9:SH:125:GLU:OE1	9:TH:336:LYS:NZ	2.34	0.45
9:SJ:183:TYR:O	9:SJ:187:LEU:HG	2.16	0.45
14:T2:56:TRP:HE1	14:T3:419:LYS:NZ	2.15	0.45
14:T4:101:ARG:HG3	30:U0:486:THR:HA	1.99	0.45
14:T4:366:VAL:HG22	14:T4:367:GLU:H	1.82	0.45
8:TA:149:PHE:O	8:TA:153:LEU:HG	2.17	0.45
9:TB:136:THR:HG22	9:TB:167:PHE:HB2	1.98	0.45
8:TC:56:THR:HG23	8:TC:58:ALA:N	2.31	0.45
9:TH:24:ILE:HA	9:TH:27:GLU:HB3	1.98	0.45
9:TH:290:THR:HA	9:TH:293:MET:HB2	1.98	0.45
9:TJ:337:ASN:HB3	9:TJ:340:TYR:HD2	1.82	0.45
25:U:519:ASN:HD22	25:U:522:GLN:NE2	2.15	0.45
30:U8:319:GLU:O	30:U8:322:GLU:HG3	2.16	0.45
8:UE:27:GLU:OE2	8:UE:236:SER:OG	2.26	0.45
9:UH:226:ASN:OD1	52:UH:502:GDP:N1	2.47	0.45
8:UK:113:GLU:OE1	8:UK:113:GLU:N	2.34	0.45
8:UK:269:LEU:HD22	8:UK:303:VAL:HG21	1.98	0.45
9:UL:123:GLU:O	9:UL:126:SER:OG	2.28	0.45
9:UN:68:LEU:HD11	9:UN:147:MET:HE1	1.99	0.45
8:UO:276:ILE:HD12	8:UO:276:ILE:HA	1.89	0.45
25:V:26:HIS:H	25:V:48:GLY:HA2	1.81	0.45
30:V7:262:TYR:HE2	30:W0:175:ARG:NH2	2.15	0.45
8:VE:352:LYS:HZ3	9:VF:179:VAL:H	1.65	0.45
9:VF:170:VAL:HG21	9:VF:201:CYS:HB2	1.98	0.45
9:VF:406:MET:HE3	9:VF:406:MET:O	2.17	0.45
9:VL:40:SER:HB3	9:VL:43:GLN:HE21	1.81	0.45
9:VL:324:LYS:HE3	8:VM:210:TYR:CD1	2.52	0.45
8:VM:154:MET:HE1	8:VM:166:LYS:HD2	1.98	0.45
8:VM:286:LEU:HD12	8:VM:286:LEU:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VN:61:PRO:HD3	9:VN:84:ILE:HG22	1.99	0.45
9:VN:138:SER:HA	9:VN:169:VAL:HB	1.98	0.45
30:W2:214:ASN:HA	30:W2:217:ARG:HH11	1.82	0.45
30:W7:218:GLU:OE2	30:W7:473:ARG:NH2	2.50	0.45
30:W7:351:THR:HA	30:W7:462:LEU:HD11	1.97	0.45
9:WD:404:ASP:OD1	9:WD:404:ASP:N	2.49	0.45
8:WE:203:MET:HE1	8:WE:267:PHE:HB3	1.98	0.45
8:WG:117:LEU:CD1	8:WG:121:ARG:HH21	2.30	0.45
8:WG:174:ALA:HA	8:WG:205:ASP:HB2	1.99	0.45
8:WK:115:VAL:HG22	8:WK:152:LEU:HD13	1.99	0.45
9:WP:1:MET:N	9:WP:128:ASP:OD1	2.42	0.45
33:X5:10:VAL:HG12	33:X5:14:VAL:HG23	1.99	0.45
35:XC:87:PHE:H	35:XC:107:ASN:ND2	2.15	0.45
35:XH:73:LEU:HD22	35:XH:169:ASP:HB3	1.99	0.45
36:Y4:54:ARG:HD2	36:Y4:54:ARG:N	2.32	0.45
37:YB:44:GLY:O	37:YB:144:ARG:NH1	2.50	0.45
39:a:223:GLU:HG2	39:a:226:ARG:HH21	1.81	0.45
40:a1:32:GLU:N	40:a1:32:GLU:OE1	2.50	0.45
39:b:510:ARG:HD2	39:b:511:ARG:HE	1.80	0.45
41:b1:364:CYS:SG	41:b1:433:LEU:HG	2.57	0.45
41:b4:114:HIS:O	41:b4:118:ARG:HG2	2.17	0.45
39:c:417:GLU:HA	39:c:420:LEU:HB2	1.98	0.45
42:e:373:PRO:HD2	48:q:135:LYS:HE2	1.98	0.45
42:f:353:LYS:HA	42:f:376:THR:HA	1.97	0.45
44:h4:56:TYR:CD1	44:h4:88:LEU:HD23	2.52	0.45
43:i:41:LYS:HA	43:i:41:LYS:HD3	1.75	0.45
46:i2:1415:MET:HB3	46:i2:1416:ARG:H	1.70	0.45
43:j:124:ILE:HD12	43:j:135:ASP:HA	1.99	0.45
45:n:12:LYS:HA	45:n:15:LEU:HG	1.99	0.45
45:n:29:LYS:HA	45:n:29:LYS:HD2	1.73	0.45
47:p:301:LEU:HA	47:p:304:MET:SD	2.57	0.45
47:p:379:MET:HE1	47:p:380:LYS:HD3	1.99	0.45
2:1:467:LEU:C	2:1:468:TYR:HD1	2.24	0.45
2:2:447:TYR:N	8:IO:221:ARG:HH21	2.14	0.45
3:3:160:ARG:HH22	26:P2:7:TYR:H	1.64	0.45
3:3:169:ALA:O	3:3:173:GLU:HG3	2.17	0.45
7:A2:327:GLU:OE2	7:A2:327:GLU:N	2.50	0.45
7:A5:163:LEU:HB2	7:A5:231:GLN:NE2	2.31	0.45
8:AE:5:ILE:HB	8:AE:135:PHE:CD1	2.52	0.45
8:AE:80:THR:HG21	17:I:213:ILE:HG13	1.99	0.45
9:AF:305:PRO:HA	9:AF:373:ALA:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:27:GLU:OE1	8:AG:243:ARG:NH2	2.50	0.45
8:AG:203:MET:N	8:AG:203:MET:SD	2.90	0.45
9:AJ:68:LEU:HD23	9:AJ:68:LEU:HA	1.79	0.45
8:AK:324:VAL:HG12	8:AK:326:LYS:H	1.82	0.45
9:AP:180:VAL:HG23	9:AP:184:ASN:HD21	1.81	0.45
11:B2:158:ALA:HA	11:B2:239:LEU:HD21	1.99	0.45
11:B2:295:GLY:HA2	11:B2:298:ARG:HH12	1.82	0.45
9:BD:3:GLU:HG2	9:BD:127:CYS:SG	2.57	0.45
9:BH:146:GLY:O	9:BH:149:THR:OG1	2.33	0.45
9:CB:358:PRO:HG2	9:CB:361:LEU:HB3	1.99	0.45
8:CC:317:MET:HA	8:CC:317:MET:HE3	1.98	0.45
8:CE:297:GLU:OE1	8:CE:299:ALA:N	2.50	0.45
8:CE:345:ASP:N	8:CE:345:ASP:OD1	2.49	0.45
9:CP:287:PRO:HA	9:CP:329:GLN:NE2	2.28	0.45
8:CQ:125:LEU:HD12	8:CQ:125:LEU:O	2.17	0.45
14:D2:25:LYS:O	14:D2:29:VAL:HG22	2.16	0.45
14:D2:188:GLU:OE1	28:Q2:31:TYR:CE1	2.66	0.45
9:DF:320:ARG:NH2	9:DF:355:ASP:OD2	2.50	0.45
8:DM:338:LYS:HD3	8:DM:340:THR:H	1.82	0.45
9:DP:39:ASP:HA	17:O7:52:PRO:HD2	1.98	0.45
8:EA:17:GLY:HA3	8:EA:67:PHE:CZ	2.52	0.45
9:EB:36:TYR:OH	9:EB:40:SER:O	2.35	0.45
9:ED:276:ARG:NH2	25:U:397:CYS:SG	2.90	0.45
8:EE:271:THR:HB	8:EE:377:MET:HB3	1.98	0.45
9:EF:296:ALA:O	9:EF:299:MET:HG2	2.17	0.45
9:EF:309:ARG:NH2	9:EF:339:SER:O	2.50	0.45
8:EI:20:CYS:SG	8:EI:21:TRP:N	2.90	0.45
9:EJ:111:GLU:OE1	9:EJ:111:GLU:N	2.41	0.45
8:FA:234:ILE:HD11	8:FA:272:TYR:HB2	1.99	0.45
8:FA:428:LEU:HD12	8:FA:428:LEU:HA	1.87	0.45
9:FD:60:VAL:HG11	9:GD:281:TYR:HB3	1.99	0.45
8:FE:328:VAL:HG11	8:FE:353:VAL:HG11	1.99	0.45
9:FH:178:THR:HG22	9:FH:180:VAL:H	1.82	0.45
9:FN:16:ILE:HD11	9:FN:136:THR:HB	1.98	0.45
9:FN:113:VAL:HG11	9:FN:150:LEU:HD23	1.98	0.45
8:FO:191:THR:HA	8:FO:194:THR:HG22	1.98	0.45
8:GA:49:PHE:HD2	8:GA:53:PHE:HB2	1.82	0.45
9:GB:233:MET:HB2	9:GB:233:MET:HE3	1.60	0.45
9:GD:342:VAL:HB	9:GD:344:TRP:CD1	2.52	0.45
8:GG:21:TRP:CH2	8:GG:65:ALA:HB2	2.52	0.45
8:GG:408:TYR:HB3	8:GG:413:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GJ:321:MET:SD	9:GJ:321:MET:N	2.89	0.45
9:GN:291:GLN:HB2	36:Y2:51:TYR:CD2	2.52	0.45
8:HA:90:GLU:HG2	8:HA:121:ARG:NH1	2.32	0.45
9:HB:28:HIS:HD2	9:HB:47:ILE:HG13	1.82	0.45
9:HB:142:GLY:N	52:HB:502:GDP:O3B	2.46	0.45
9:HB:372:THR:HG21	9:HB:426:GLN:HB2	1.99	0.45
8:HE:417:GLU:N	8:HE:417:GLU:OE1	2.49	0.45
8:HG:113:GLU:O	36:Y1:187:GLN:NE2	2.41	0.45
9:HL:411:ALA:O	9:HL:415:MET:HG2	2.16	0.45
8:HM:164:LYS:HA	8:HM:164:LYS:HD2	1.74	0.45
9:HN:250:LEU:HD23	9:HN:250:LEU:HA	1.86	0.45
18:I1:110:GLN:NE2	18:I1:111:SER:O	2.50	0.45
9:IB:271:ALA:HB3	9:IB:272:PRO:HD3	1.99	0.45
9:ID:203:ASP:OD2	9:ID:302:ALA:N	2.48	0.45
9:IF:164:MET:N	9:IF:164:MET:SD	2.90	0.45
9:IF:343:GLU:HB2	9:IF:430:ALA:HB2	1.99	0.45
50:II:501:GTP:O1A	50:II:501:GTP:H8	2.00	0.45
9:IJ:296:ALA:HA	9:IJ:299:MET:HG2	1.99	0.45
8:IK:30:ILE:HG13	8:IK:53:PHE:HE2	1.82	0.45
8:IK:189:LEU:HD22	8:IK:413:MET:HE1	1.98	0.45
8:IK:297:GLU:O	8:IK:301:GLN:NE2	2.39	0.45
9:IL:256:ASN:O	9:IL:312:THR:HG21	2.17	0.45
9:IL:375:GLN:HA	9:IL:378:PHE:CD2	2.52	0.45
8:IM:27:GLU:HG2	8:IM:361:THR:HG21	1.98	0.45
19:J4:167:MET:N	19:J4:167:MET:HE3	2.31	0.45
9:JB:137:HIS:HB2	9:JB:144:GLY:HA3	1.98	0.45
8:JE:203:MET:HE1	8:JE:267:PHE:CD1	2.52	0.45
8:JG:19:ALA:HB1	8:JG:229:ARG:HD2	1.99	0.45
8:JI:15:GLN:HB3	8:JI:228:ASN:ND2	2.32	0.45
8:JM:241:SER:OG	8:JM:250:VAL:N	2.49	0.45
9:KB:8:GLN:NE2	9:KB:13:GLY:O	2.50	0.45
9:KB:330:MET:HB3	9:KB:349:VAL:HG11	1.98	0.45
8:KC:25:CYS:SG	8:KC:86:LEU:HD21	2.57	0.45
8:KC:133:GLN:NE2	8:KC:251:ASP:OD2	2.50	0.45
8:KC:234:ILE:HD11	8:KC:302:MET:HE1	1.98	0.45
8:KC:425:LEU:HD12	8:KC:428:LEU:HD12	1.98	0.45
9:KD:204:ASN:O	9:KD:208:TYR:N	2.39	0.45
9:KJ:117:LEU:HD21	9:KJ:154:LYS:HG3	1.99	0.45
8:KM:98:ASP:OD1	8:KM:98:ASP:N	2.38	0.45
8:KM:155:GLU:HA	8:KM:197:HIS:ND1	2.32	0.45
8:KM:203:MET:HE1	8:KM:267:PHE:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KM:288:VAL:HB	8:KM:327:ASP:OD2	2.17	0.45
9:KN:208:TYR:CD1	9:KN:225:LEU:HD21	2.51	0.45
8:KO:211:ASP:HA	8:KO:214:ARG:HG2	1.98	0.45
8:LA:155:GLU:HA	8:LA:197:HIS:CD2	2.52	0.45
8:LA:385:ALA:HA	8:LA:388:TRP:HE3	1.82	0.45
9:LB:117:LEU:HA	9:LB:120:VAL:HG22	1.98	0.45
8:LC:68:VAL:HG12	8:LC:93:ILE:HB	1.99	0.45
9:LD:191:GLN:OE1	43:i:63:LEU:HD13	2.17	0.45
9:LL:8:GLN:HE21	9:LL:14:ASN:HA	1.82	0.45
9:LL:172:SER:HB2	9:LL:203:ASP:OD1	2.17	0.45
9:LL:252:LYS:HA	8:LM:100:ALA:HB1	1.98	0.45
8:LM:298:PRO:HG3	8:LM:308:ARG:HH22	1.82	0.45
9:LN:344:TRP:HZ3	8:LO:403:ALA:HB2	1.82	0.45
8:LO:105:ARG:NH2	8:LO:110:ILE:HD11	2.31	0.45
9:MB:268:PRO:HG2	9:MB:300:MET:HG3	1.99	0.45
9:MB:299:MET:HE1	9:MB:367:PHE:CE2	2.52	0.45
9:MF:73:MET:HE2	9:MF:92:PHE:HB3	1.99	0.45
8:MI:121:ARG:HA	8:MI:121:ARG:HD2	1.64	0.45
9:ML:198:GLU:OE2	9:ML:254:ALA:HA	2.17	0.45
8:MM:393:HIS:CD2	43:k:39:MET:HE3	2.44	0.45
9:MP:147:MET:O	9:MP:151:LEU:N	2.42	0.45
6:N1:22:THR:HG22	6:N1:25:ARG:HH21	1.83	0.45
6:N1:54:THR:O	6:N1:58:GLU:HG2	2.17	0.45
15:N2:123:MET:O	15:N2:127:THR:HG23	2.17	0.45
8:NC:53:PHE:HB3	8:NC:61:HIS:HB3	1.98	0.45
9:ND:87:PRO:HA	9:ND:90:PHE:CE2	2.52	0.45
8:NE:32:PRO:HA	8:NE:83:TYR:CE2	2.51	0.45
9:NF:201:CYS:SG	9:NF:265:PHE:HB3	2.57	0.45
9:NH:284:LEU:HD23	9:NH:284:LEU:HA	1.85	0.45
8:NI:326:LYS:HE3	9:NJ:220:PRO:HG2	1.99	0.45
9:NJ:299:MET:N	9:NJ:299:MET:HE2	2.32	0.45
8:NK:11:GLN:HG3	8:NK:74:VAL:HG11	1.98	0.45
9:NL:270:PHE:CE1	9:NL:272:PRO:HD2	2.52	0.45
8:NO:219:ILE:HG12	8:NO:222:PRO:HG3	1.99	0.45
8:OA:114:ILE:HG22	8:OA:118:VAL:HG23	1.99	0.45
8:OA:238:ILE:HG23	8:OA:239:THR:HG23	1.99	0.45
8:OC:25:CYS:HB2	8:OC:30:ILE:HB	1.98	0.45
9:OD:211:CYS:HB3	9:OD:220:PRO:HG3	1.98	0.45
9:OD:322:SER:O	8:OE:221:ARG:NH1	2.50	0.45
9:OD:324:LYS:HZ3	8:OE:222:PRO:HB2	1.82	0.45
9:OF:409:THR:O	9:OF:412:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OG:7:ILE:HG23	8:OG:7:ILE:HD12	1.67	0.45
9:OH:149:THR:HB	9:OH:191:GLN:HG2	1.99	0.45
9:OH:310:TYR:CD1	9:OH:371:SER:HB2	2.52	0.45
8:OI:2:ARG:NE	8:OI:242:LEU:HG	2.32	0.45
9:OJ:20:PHE:CE2	9:OJ:233:MET:HB2	2.51	0.45
8:OM:245:ASP:HA	8:OM:249:ASN:HD21	1.82	0.45
8:OO:196:GLU:OE1	8:OO:197:HIS:NE2	2.50	0.45
27:P4:153:LEU:HD12	27:P4:153:LEU:HA	1.88	0.45
27:P6:180:GLN:H	14:T2:340:LYS:HE2	1.82	0.45
17:P8:59:MET:SD	11:R2:354:GLN:NE2	2.90	0.45
8:PK:121:ARG:HA	8:PK:121:ARG:NE	2.32	0.45
8:PM:141:PHE:HD2	8:PM:173:PRO:HD3	1.81	0.45
8:PM:209:ILE:CD1	8:PM:227:LEU:HA	2.47	0.45
9:PN:314:ALA:HB3	9:PN:368:ILE:HB	1.98	0.45
8:PO:5:ILE:HD13	8:PO:125:LEU:HG	1.97	0.45
8:PO:5:ILE:HB	8:PO:135:PHE:CD2	2.52	0.45
28:Q2:123:ILE:HG12	12:S7:425:TYR:CE2	2.52	0.45
28:Q3:173:PRO:HG2	28:Q3:174:GLN:OE1	2.17	0.45
9:QB:270:PHE:CD2	9:QB:272:PRO:HD2	2.51	0.45
8:QC:30:ILE:HD13	8:QC:36:MET:SD	2.57	0.45
9:QD:156:ARG:NH1	9:QD:197:ASP:OD1	2.44	0.45
9:QD:329:GLN:HG3	9:QD:329:GLN:H	1.63	0.45
8:QE:312:TYR:HE2	8:QE:341:ILE:HD12	1.82	0.45
8:QE:404:PHE:HD1	8:QE:407:TRP:CD1	2.29	0.45
9:QF:219:THR:O	9:QF:219:THR:OG1	2.24	0.45
8:QK:105:ARG:HH21	8:QK:110:ILE:HG13	1.82	0.45
8:QK:321:GLY:HA3	8:QK:373:ARG:HA	1.99	0.45
9:QP:24:ILE:HA	9:QP:27:GLU:HG2	1.98	0.45
11:R2:109:PRO:HA	11:R2:112:VAL:HG12	1.98	0.45
11:R2:331:ARG:HH21	11:R3:208:ILE:HG21	1.81	0.45
11:R3:158:ALA:HA	11:R3:239:LEU:HD21	1.98	0.45
8:RE:316:CYS:HA	8:RE:352:LYS:HB3	1.99	0.45
9:RJ:12:CYS:O	9:RJ:16:ILE:HG12	2.16	0.45
9:RJ:181:GLU:CD	9:RJ:182:PRO:HD3	2.42	0.45
8:RM:104:ALA:HB2	8:RM:413:MET:HE1	1.99	0.45
9:RP:406:MET:HA	9:RP:406:MET:HE2	1.98	0.45
29:S:167:HIS:NE2	29:S:171:GLU:OE2	2.50	0.45
12:S1:36:ARG:HA	12:S1:36:ARG:HD2	1.72	0.45
12:S1:467:TYR:O	12:S1:471:GLU:HB3	2.17	0.45
12:S2:134:GLN:NE2	12:S3:426:GLU:OE2	2.50	0.45
12:S2:226:ILE:HG12	12:S2:336:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S3:209:ASP:OD1	12:S3:462:LYS:NZ	2.43	0.45
12:S5:350:ARG:O	12:S5:354:THR:HG23	2.16	0.45
12:S6:114:ARG:O	12:S6:118:GLU:HG2	2.16	0.45
12:S6:370:GLN:HA	12:S6:373:PHE:CD2	2.51	0.45
12:S8:99:TRP:CD1	12:S9:208:ILE:HG13	2.48	0.45
12:S8:137:LYS:O	12:S8:138:THR:C	2.60	0.45
8:SE:172:TYR:CD1	8:SE:203:MET:HE2	2.52	0.45
8:SG:220:GLU:HG2	8:SG:221:ARG:HG2	1.99	0.45
8:SG:263:PRO:HG3	9:SH:396:HIS:CD2	2.51	0.45
8:SG:320:ARG:NH2	8:SG:358:GLN:O	2.50	0.45
9:SH:142:GLY:N	52:SH:502:GDP:O3B	2.42	0.45
9:SH:270:PHE:HD1	9:SH:272:PRO:HD2	1.81	0.45
8:SM:223:THR:OG1	8:SM:224:TYR:N	2.50	0.45
8:SM:367:ASP:OD1	8:SM:367:ASP:N	2.50	0.45
14:T1:149:TYR:HB2	14:T1:183:ILE:HG21	1.98	0.45
14:T2:251:ALA:H	14:T3:368:LEU:HD12	1.82	0.45
14:T3:344:LYS:HB2	14:T3:344:LYS:HE2	1.83	0.45
14:T4:80:GLU:O	14:T4:83:GLN:HG3	2.17	0.45
9:TB:344:TRP:H	9:TB:344:TRP:CD1	2.33	0.45
8:TC:111:GLY:O	8:TC:115:VAL:HG23	2.17	0.45
8:TC:150:ALA:O	8:TC:154:MET:HG2	2.17	0.45
8:TE:1:MET:CE	8:TE:50:ASN:HB3	2.47	0.45
9:TH:211:CYS:HA	9:TH:215:LEU:HB2	1.99	0.45
8:TI:215:ARG:NH2	8:TI:300:ASN:OD1	2.38	0.45
8:TM:245:ASP:HA	8:TM:249:ASN:HD21	1.81	0.45
30:U1:232:LEU:HD12	30:U1:235:ARG:HD3	1.99	0.45
30:U2:442:GLN:HG3	30:U7:280:PHE:HA	1.98	0.45
30:U5:231:LYS:HA	30:U5:234:LYS:HD2	1.98	0.45
30:U6:83:ARG:CZ	30:U7:216:ILE:HG23	2.47	0.45
30:U6:104:ARG:HD2	30:W2:295:THR:HB	1.98	0.45
30:U6:121:LEU:HD22	30:V2:162:ARG:HH22	1.82	0.45
30:U8:211:VAL:HG13	30:U8:343:PHE:CE1	2.52	0.45
8:UC:105:ARG:HH21	8:UC:110:ILE:HD11	1.82	0.45
8:UE:313:MET:HA	8:UE:313:MET:HE2	1.99	0.45
8:UG:49:PHE:HB2	8:UG:53:PHE:HD2	1.81	0.45
8:UI:326:LYS:HG3	9:UJ:220:PRO:HD2	1.99	0.45
9:UJ:25:SER:O	9:UJ:29:GLY:N	2.50	0.45
9:UN:245:GLN:HA	9:UN:245:GLN:OE1	2.17	0.45
8:UO:88:HIS:NE2	8:VO:283:HIS:HB3	2.31	0.45
30:V1:209:ASP:OD1	30:V1:209:ASP:N	2.45	0.45
30:V6:195:LEU:HD13	30:V6:215:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V8:268:PHE:CZ	30:V8:279:PHE:HB3	2.52	0.45
8:VG:6:SER:HB3	8:VG:8:HIS:CD2	2.52	0.45
8:VG:47:ASP:HA	8:VG:50:ASN:HD21	1.81	0.45
9:VH:173:PRO:HD3	9:VH:380:ARG:NE	2.32	0.45
8:VI:93:ILE:HD11	8:VI:121:ARG:HG3	1.99	0.45
8:VI:185:TYR:O	8:VI:189:LEU:HG	2.17	0.45
8:VK:130:THR:OG1	8:VK:131:GLY:N	2.50	0.45
8:VO:259:LEU:HD21	8:VO:316:CYS:HB2	1.98	0.45
30:W2:151:PHE:O	30:W2:155:GLU:HG2	2.17	0.45
30:W2:403:PRO:HG2	30:W2:406:GLU:HG3	1.99	0.45
8:WC:80:THR:HB	39:a6:93:PRO:HD2	1.98	0.45
8:WK:339:ARG:O	8:WK:339:ARG:NE	2.50	0.45
34:X6:76:PHE:HB2	34:X6:89:VAL:HG12	1.99	0.45
35:XD:144:TYR:HB2	35:XD:146:THR:HG22	2.00	0.45
35:XD:174:GLU:HA	35:XD:177:LEU:HD12	1.99	0.45
35:XF:115:LYS:HB3	35:XF:116:PRO:CD	2.46	0.45
35:XG:22:LEU:HD12	35:XG:22:LEU:HA	1.82	0.45
36:Y1:75:LYS:NZ	36:Y1:82:ASP:O	2.49	0.45
37:YB:195:ILE:H	37:YB:195:ILE:HG13	1.65	0.45
37:YF:133:LEU:HD23	37:YF:133:LEU:HA	1.86	0.45
37:YH:218:ARG:HG3	37:YH:219:TYR:CD1	2.51	0.45
31:Z:284:LEU:HD12	31:Z:285:PRO:HD2	1.97	0.45
31:Z:699:TRP:H	31:Z:699:TRP:CD1	2.35	0.45
39:a:179:ARG:HH12	42:f:89:PHE:HE2	1.65	0.45
40:a4:7:PHE:HD1	40:a4:8:MET:N	2.14	0.45
39:b:514:ILE:HA	39:b:517:ILE:HG22	1.98	0.45
41:b1:391:GLU:OE1	41:b1:391:GLU:N	2.50	0.45
41:b4:431:LYS:HA	41:b4:434:LYS:HD3	1.98	0.45
41:b5:135:LEU:HA	41:b5:255:VAL:HG11	2.00	0.45
42:f:141:SER:HB2	42:f:148:ILE:HD11	1.98	0.45
42:g:508:VAL:HG23	42:g:519:THR:HG22	1.98	0.45
45:i1:72:LEU:O	45:i1:73:LYS:NZ	2.41	0.45
2:1:515:LEU:HA	8:IE:221:ARG:HB3	1.97	0.44
4:5:132:ILE:HG23	4:5:137:PHE:HB2	1.99	0.44
1:7:43:SER:OG	9:IB:53:GLU:OE1	2.33	0.44
7:A1:338:ILE:HG23	33:X4:140:PRO:HG2	1.99	0.44
7:A2:85:VAL:HG22	7:A2:168:LYS:HD3	1.99	0.44
7:A2:105:TYR:HE2	7:A2:146:VAL:HG11	1.82	0.44
7:A3:161:ILE:O	7:A3:165:ARG:HG2	2.17	0.44
9:AF:159:TYR:HB3	9:AF:162:ARG:HG2	1.99	0.44
9:AF:257:MET:HE2	9:AF:257:MET:HB2	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AF:350:LYS:HE3	9:AF:350:LYS:HB3	1.67	0.44
8:AG:113:GLU:N	8:AG:113:GLU:OE1	2.49	0.44
9:AH:429:THR:OG1	9:AH:432:GLU:N	2.50	0.44
8:AI:41:THR:HG23	25:V:96:VAL:HG23	1.99	0.44
9:AJ:190:HIS:C	9:AJ:190:HIS:ND1	2.75	0.44
9:AL:73:MET:N	9:AL:73:MET:HE2	2.32	0.44
8:AM:324:VAL:O	8:AM:328:VAL:HG23	2.18	0.44
9:AN:248:ALA:HA	9:AN:252:LYS:HD3	1.98	0.44
9:AN:257:MET:SD	9:AN:314:ALA:HB2	2.56	0.44
8:AO:7:ILE:HD13	8:AO:7:ILE:HA	1.84	0.44
10:B:168:ARG:HH21	10:B:172:GLU:CD	2.24	0.44
11:B2:123:ARG:NH2	11:B2:134:GLU:OE2	2.50	0.44
11:B3:32:ARG:NH2	11:B4:286:THR:OG1	2.49	0.44
9:BB:184:ASN:OD1	9:BB:398:TYR:OH	2.36	0.44
9:BB:341:PHE:HB3	9:BB:348:ASN:HD21	1.82	0.44
8:BE:203:MET:HE1	8:BE:267:PHE:HD1	1.81	0.44
9:BF:139:LEU:HA	9:BF:145:SER:HB3	1.98	0.44
9:BJ:256:ASN:HD22	9:BJ:350:LYS:HD3	1.80	0.44
8:BM:49:PHE:O	8:BM:53:PHE:N	2.51	0.44
10:C:485:TYR:CD1	8:GG:41:THR:HG21	2.52	0.44
12:C4:422:ASN:HD21	27:P6:122:ASP:CG	2.24	0.44
9:CB:198:GLU:OE1	9:CB:198:GLU:N	2.50	0.44
8:CC:108:TYR:HA	8:CC:112:LYS:HZ2	1.83	0.44
9:CD:7:LEU:N	9:CD:134:GLN:O	2.46	0.44
8:CE:316:CYS:HB3	8:CE:378:LEU:HB2	1.97	0.44
9:CJ:10:GLY:O	9:CJ:14:ASN:ND2	2.49	0.44
9:CL:350:LYS:HD3	9:CL:351:THR:N	2.32	0.44
9:CN:47:ILE:HG12	9:CN:51:TYR:HB2	2.00	0.44
8:CO:312:TYR:HE2	8:CO:341:ILE:HD12	1.82	0.44
9:CP:166:THR:HG23	9:CP:199:THR:HG23	1.99	0.44
9:CP:319:GLY:N	9:CP:354:CYS:O	2.49	0.44
8:CQ:225:THR:HA	8:CQ:228:ASN:HB2	1.98	0.44
14:D3:257:TRP:HE1	14:D4:367:GLU:CD	2.25	0.44
14:D4:307:ARG:O	14:D4:311:LEU:HD12	2.17	0.44
14:D4:344:LYS:HB2	14:D4:344:LYS:HE3	1.71	0.44
9:DB:41:ASP:HB2	17:H:55:VAL:HG13	1.98	0.44
9:DB:262:ARG:HH21	9:DB:418:LEU:HB2	1.82	0.44
9:DB:388:MET:HA	9:DB:388:MET:HE3	1.99	0.44
8:DC:84:ARG:HG3	8:DC:85:GLN:HG2	1.98	0.44
9:DH:236:VAL:HG22	9:DH:368:ILE:HD11	1.99	0.44
8:DI:200:CYS:HA	8:DI:266:HIS:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DM:84:ARG:NH2	17:M:15:HIS:O	2.46	0.44
9:DP:276:ARG:HB2	31:Z:271:GLY:HA3	1.99	0.44
8:EC:107:HIS:O	8:EC:152:LEU:HD21	2.17	0.44
8:EG:295:CYS:SG	8:EG:377:MET:HE2	2.57	0.44
9:EJ:253:LEU:O	9:EJ:257:MET:N	2.50	0.44
9:EJ:324:LYS:HG2	8:EK:214:ARG:NH2	2.32	0.44
8:EM:155:GLU:HA	8:EM:197:HIS:ND1	2.32	0.44
8:EM:317:MET:HE3	8:EM:317:MET:HA	1.99	0.44
9:EN:44:LEU:HD22	17:Z5:212:LEU:HD21	1.99	0.44
15:F:99:GLU:HB2	15:F:242:TYR:HB2	1.99	0.44
8:FA:123:ARG:NE	36:Y3:66:PRO:HG2	2.32	0.44
9:FD:198:GLU:HA	9:FD:264:HIS:HB2	1.98	0.44
9:FF:323:MET:HE2	8:FG:210:TYR:OH	2.17	0.44
8:FK:324:VAL:HG12	8:FK:326:LYS:H	1.82	0.44
9:FN:324:LYS:HD2	9:FN:324:LYS:HA	1.84	0.44
8:FO:149:PHE:CD1	8:FO:152:LEU:HD11	2.52	0.44
8:FO:319:TYR:HE2	8:FO:328:VAL:HG13	1.82	0.44
9:GF:270:PHE:HZ	9:GF:318:ARG:HH22	1.65	0.44
9:GH:344:TRP:H	9:GH:344:TRP:CD1	2.35	0.44
9:GL:135:LEU:HD23	9:GL:152:ILE:HD11	1.98	0.44
9:GL:202:ILE:HD13	9:GL:300:MET:SD	2.57	0.44
9:GL:291:GLN:HB2	36:Y2:87:TYR:CZ	2.52	0.44
8:GM:2:ARG:HB3	8:GM:133:GLN:HG3	1.99	0.44
9:GN:68:LEU:H	9:GN:143:THR:HG21	1.82	0.44
17:H:16:TYR:HB2	17:H:39:THR:HG21	1.99	0.44
9:HH:3:GLU:OE1	9:HH:3:GLU:N	2.50	0.44
9:HJ:101:TRP:CD1	9:HJ:146:GLY:HA2	2.51	0.44
9:HJ:203:ASP:OD1	9:HJ:204:ASN:N	2.50	0.44
8:HK:7:ILE:HB	8:HK:137:ILE:HD12	1.99	0.44
8:HK:253:THR:O	8:HK:257:THR:OG1	2.27	0.44
9:IB:415:MET:HE3	9:IB:415:MET:O	2.17	0.44
8:IC:260:VAL:HG13	8:IC:265:ILE:O	2.17	0.44
9:ID:253:LEU:O	9:ID:257:MET:N	2.46	0.44
9:ID:328:GLU:O	9:ID:332:ASN:N	2.44	0.44
8:IG:88:HIS:HB2	9:JH:280:GLN:CG	2.47	0.44
9:IH:309:ARG:HH21	9:IH:342:VAL:HA	1.81	0.44
8:II:388:TRP:O	8:II:392:ASP:HB2	2.17	0.44
9:IJ:309:ARG:NH2	9:IJ:339:SER:O	2.50	0.44
8:IM:168:GLU:O	8:IM:201:ALA:HA	2.17	0.44
8:IO:139:HIS:ND1	8:IO:140:SER:O	2.41	0.44
9:IP:86:ARG:HB2	9:IP:89:ASN:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J4:240:HIS:HD2	19:J4:241:PHE:CD1	2.35	0.44
19:J4:246:SER:HB3	8:LO:430:LYS:HG2	1.99	0.44
9:JH:183:TYR:CD2	9:JH:398:TYR:CE1	3.06	0.44
9:JJ:58:LYS:HE3	9:JJ:58:LYS:HB3	1.80	0.44
8:JK:21:TRP:CZ3	8:JK:63:PRO:HB3	2.52	0.44
9:JL:44:LEU:HA	9:JL:47:ILE:HG23	1.98	0.44
9:JN:64:VAL:HG21	9:JN:120:VAL:HG12	2.00	0.44
8:KA:316:CYS:HB3	8:KA:378:LEU:HB2	1.99	0.44
8:KA:425:LEU:HD12	8:KA:425:LEU:HA	1.88	0.44
9:KB:21:TRP:CZ3	9:KB:24:ILE:HD11	2.52	0.44
9:KB:166:THR:HG23	9:KB:199:THR:HG23	1.99	0.44
8:KC:152:LEU:HA	8:KC:155:GLU:OE1	2.17	0.44
9:KF:323:MET:HE1	8:KG:224:TYR:CD1	2.52	0.44
9:KH:101:TRP:NE1	9:KH:188:SER:OG	2.51	0.44
8:KM:206:ASN:OD1	50:KM:501:GTP:N2	2.50	0.44
9:KN:16:ILE:HD11	9:KN:136:THR:HB	2.00	0.44
9:KN:156:ARG:HD3	9:KN:164:MET:HE1	1.99	0.44
9:KN:165:ASN:N	9:KN:165:ASN:OD1	2.50	0.44
9:KN:207:LEU:HB2	9:KN:225:LEU:HD23	1.98	0.44
8:LC:109:THR:OG1	8:LC:110:ILE:N	2.50	0.44
9:LD:346:PRO:HG3	8:LE:394:LYS:HG3	1.98	0.44
9:LF:293:MET:HG2	9:LF:367:PHE:HB2	1.99	0.44
8:LG:40:LYS:NZ	8:LG:41:THR:O	2.35	0.44
9:LH:55:THR:HG23	9:MH:283:ALA:HA	1.98	0.44
9:LN:327:ASP:HA	9:LN:330:MET:HG3	2.00	0.44
8:LO:339:ARG:O	8:LO:339:ARG:NE	2.50	0.44
9:LP:299:MET:N	9:LP:299:MET:HE2	2.32	0.44
22:M4:170:ASP:OD1	22:M4:170:ASP:N	2.35	0.44
8:MG:108:TYR:HA	8:MG:112:LYS:HE3	1.99	0.44
8:MI:200:CYS:HA	8:MI:266:HIS:HB2	1.99	0.44
9:MJ:117:LEU:HB3	9:MJ:121:ARG:NH2	2.32	0.44
9:ML:320:ARG:HH22	23:P:62:LYS:HZ3	1.65	0.44
9:MP:180:VAL:HG13	9:MP:184:ASN:HD21	1.82	0.44
8:NA:9:VAL:HB	8:NA:139:HIS:HB3	2.00	0.44
8:NA:28:HIS:HB2	8:NA:30:ILE:HD11	1.98	0.44
8:NA:275:VAL:HG23	8:NA:275:VAL:O	2.17	0.44
9:NB:274:THR:OG1	9:NB:279:GLN:OE1	2.36	0.44
9:ND:253:LEU:O	9:ND:257:MET:CB	2.64	0.44
9:NF:208:TYR:CE2	9:NF:225:LEU:HD11	2.51	0.44
9:NH:4:ILE:HB	9:NH:50:TYR:CE1	2.52	0.44
9:NH:68:LEU:HD23	9:NH:68:LEU:HA	1.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NH:225:LEU:O	9:NH:229:VAL:HG22	2.17	0.44
8:NI:4:CYS:SG	8:NI:51:THR:OG1	2.74	0.44
8:NK:132:LEU:HD22	8:NK:164:LYS:HG3	1.98	0.44
8:NK:210:TYR:CE2	8:NK:227:LEU:HD21	2.52	0.44
8:NK:318:LEU:HD23	8:NK:318:LEU:HA	1.72	0.44
8:NK:425:LEU:HD12	8:NK:425:LEU:HA	1.84	0.44
8:NO:20:CYS:HB3	8:NO:24:TYR:CE2	2.52	0.44
8:NO:322:ASP:OD2	8:NO:373:ARG:NH2	2.51	0.44
24:O4:45:ASN:O	24:O4:100:ARG:NH1	2.50	0.44
17:O7:289:ILE:O	17:O7:292:MET:HG2	2.16	0.44
8:OA:83:TYR:HA	8:OA:86:LEU:HD23	1.99	0.44
9:OB:12:CYS:HA	52:OB:502:GDP:C5	2.52	0.44
9:OB:304:ASP:HB3	9:OB:307:HIS:HE1	1.82	0.44
8:OG:286:LEU:HB3	8:OG:291:ILE:HD11	1.99	0.44
8:OG:308:ARG:HE	36:Y4:107:PHE:HE1	1.63	0.44
9:OH:130:LEU:HB2	9:OH:162:ARG:NE	2.32	0.44
8:OI:296:PHE:CE1	8:OI:335:ILE:HD13	2.51	0.44
9:OJ:130:LEU:O	9:OJ:162:ARG:NH1	2.35	0.44
9:OJ:166:THR:HG21	9:OJ:192:LEU:HD11	1.99	0.44
9:OJ:309:ARG:NH2	9:OJ:339:SER:O	2.50	0.44
8:OM:7:ILE:HD11	8:OM:135:PHE:CD1	2.52	0.44
9:ON:267:MET:HE1	9:ON:373:ALA:HB3	1.97	0.44
9:ON:305:PRO:CD	36:Y5:205:ARG:HH22	2.28	0.44
9:OP:32:PRO:O	9:OP:83:GLN:NE2	2.51	0.44
23:P:38:MET:O	23:P:38:MET:HG3	2.17	0.44
27:P3:142:PRO:HG3	27:P3:169:LEU:HD13	1.99	0.44
27:P5:113:SER:OG	11:R3:37:GLN:NE2	2.49	0.44
17:P9:178:LEU:HD13	30:W7:40:PHE:CE2	2.52	0.44
9:PD:199:THR:N	9:PD:264:HIS:O	2.43	0.44
9:PD:278:SER:HA	9:PD:281:TYR:CE2	2.52	0.44
9:PD:407:GLU:HA	9:PD:410:GLU:HG2	1.98	0.44
8:PE:275:VAL:HA	8:PE:368:LEU:HD11	1.98	0.44
9:PF:87:PRO:HA	9:PF:90:PHE:CD1	2.53	0.44
9:PH:60:VAL:HG11	9:QH:281:TYR:HB3	1.99	0.44
9:PH:98:GLY:O	9:PH:99:ASN:ND2	2.50	0.44
9:PJ:282:ARG:HE	9:PJ:288:GLU:CD	2.25	0.44
9:PL:167:PHE:CE2	9:PL:233:MET:HG2	2.52	0.44
8:PO:133:GLN:C	8:PO:252:LEU:HD21	2.43	0.44
8:QC:236:SER:O	8:QC:243:ARG:NH2	2.50	0.44
8:QE:7:ILE:HD13	8:QE:137:ILE:CD1	2.45	0.44
9:QF:52:ASN:HB3	9:QF:60:VAL:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QF:68:LEU:HB3	9:QF:96:GLY:HA2	1.99	0.44
9:QF:236:VAL:HG13	9:QF:237:THR:HG23	1.98	0.44
8:QI:83:TYR:HB3	8:QI:86:LEU:HB3	1.98	0.44
8:QO:79:ARG:HH21	8:QO:94:THR:HG23	1.82	0.44
11:R0:300:LEU:HD11	11:R1:42:ALA:HB1	1.98	0.44
8:RE:377:MET:HE3	8:RE:378:LEU:N	2.32	0.44
8:RG:6:SER:HB2	8:RG:65:ALA:HA	1.99	0.44
8:RM:301:GLN:HG2	8:RM:302:MET:H	1.82	0.44
8:RM:429:GLU:O	8:RM:433:GLU:HG2	2.17	0.44
9:RP:239:CYS:SG	9:RP:248:ALA:N	2.88	0.44
12:S0:134:GLN:HE21	12:S0:138:THR:HG1	1.64	0.44
12:S0:209:ASP:N	12:S0:209:ASP:OD1	2.50	0.44
12:S2:48:LEU:HD23	12:S2:48:LEU:HA	1.79	0.44
12:S2:126:ARG:HA	12:S2:126:ARG:HD2	1.70	0.44
12:S4:350:ARG:HA	12:S4:350:ARG:HD2	1.67	0.44
8:SA:372:GLN:CD	8:SA:372:GLN:H	2.24	0.44
8:SA:425:LEU:HA	8:SA:428:LEU:HD23	1.99	0.44
8:SG:322:ASP:OD1	8:SG:322:ASP:N	2.46	0.44
9:SH:404:ASP:OD1	9:SH:404:ASP:N	2.48	0.44
9:SL:193:VAL:HA	9:SL:264:HIS:HE2	1.82	0.44
9:SL:204:ASN:HA	9:SL:207:LEU:HG	1.97	0.44
8:SM:350:GLY:HA2	9:SN:179:VAL:HG22	1.99	0.44
9:TB:133:PHE:HB2	9:TB:164:MET:HE1	1.98	0.44
8:TG:14:VAL:HG21	8:TG:75:VAL:HG22	1.99	0.44
8:TG:52:PHE:HZ	8:TG:239:THR:HG21	1.82	0.44
8:TG:105:ARG:HH21	8:TG:110:ILE:HG13	1.82	0.44
9:TJ:31:ASP:OD1	9:TJ:35:THR:N	2.50	0.44
9:TJ:36:TYR:CZ	9:TJ:44:LEU:HD22	2.51	0.44
9:TL:113:VAL:HG11	9:TL:150:LEU:HD23	1.98	0.44
25:U:487:PRO:HA	25:U:490:PHE:HD2	1.81	0.44
30:U2:206:LEU:HD21	30:U3:89:ARG:HH11	1.82	0.44
30:U3:188:LEU:HD12	30:U3:222:LEU:HB2	1.99	0.44
30:U8:478:SER:C	30:U8:480:PRO:HD3	2.42	0.44
9:UB:142:GLY:O	9:UB:146:GLY:HA3	2.17	0.44
9:UD:27:GLU:HA	9:UD:359:ARG:HG3	1.98	0.44
9:UF:344:TRP:H	9:UF:344:TRP:CD1	2.34	0.44
9:UH:238:THR:HG1	9:UH:354:CYS:HG	1.65	0.44
9:UH:395:LEU:O	9:UH:399:THR:OG1	2.33	0.44
9:UJ:182:PRO:O	9:UJ:186:THR:OG1	2.33	0.44
9:UJ:345:ILE:HA	8:UK:398:MET:HE1	2.00	0.44
8:UM:136:LEU:H	8:UM:136:LEU:HD23	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V7:221:LEU:HD11	30:V7:331:GLN:HB3	1.99	0.44
8:VC:172:TYR:N	8:VC:204:VAL:O	2.48	0.44
8:VC:324:VAL:HG12	8:VC:326:LYS:H	1.82	0.44
9:VF:318:ARG:HG3	9:VF:318:ARG:HH11	1.82	0.44
9:VJ:271:ALA:HB2	9:VJ:365:ALA:HB3	1.99	0.44
8:VO:47:ASP:N	8:VO:47:ASP:OD1	2.49	0.44
8:VO:317:MET:HB3	8:VO:353:VAL:HA	1.98	0.44
31:W:246:ARG:HH12	31:W:380:PRO:HD3	1.82	0.44
31:W:737:ASP:OD1	31:W:737:ASP:N	2.50	0.44
30:W2:156:LEU:HD22	30:W2:254:ILE:HD13	2.00	0.44
30:W5:323:HIS:O	30:W5:327:THR:HG23	2.17	0.44
8:WE:172:TYR:OH	8:WE:388:TRP:HD1	1.98	0.44
8:WE:292:THR:HA	8:WE:295:CYS:SG	2.57	0.44
9:WH:388:MET:HE3	9:WH:388:MET:HB2	1.93	0.44
9:WJ:66:VAL:HA	9:WJ:91:VAL:O	2.16	0.44
9:WL:12:CYS:O	9:WL:16:ILE:HG12	2.17	0.44
9:WL:72:THR:O	9:WL:75:SER:OG	2.31	0.44
9:WL:328:GLU:O	9:WL:332:ASN:N	2.45	0.44
8:WM:52:PHE:CE2	8:WM:243:ARG:HD3	2.52	0.44
9:WN:213:ARG:HH21	9:WN:297:LYS:HB3	1.82	0.44
9:WP:50:TYR:HE2	9:WP:241:ARG:HD3	1.82	0.44
31:X:80:SER:H	31:X:174:THR:HG21	1.83	0.44
35:XB:91:VAL:HG22	35:XB:154:VAL:HG22	1.99	0.44
35:XD:53:ASN:HB3	35:XD:56:THR:HG23	1.99	0.44
35:XH:91:VAL:HG22	35:XH:154:VAL:HG22	1.99	0.44
31:Y:627:PHE:O	31:Y:630:ASN:C	2.59	0.44
37:YB:84:ILE:HD12	37:YB:84:ILE:H	1.81	0.44
37:YH:77:LYS:NZ	37:YH:113:ARG:HD3	2.32	0.44
39:a:311:MET:HE3	39:a:311:MET:O	2.17	0.44
40:a2:131:LYS:HB2	40:a2:131:LYS:HE2	1.78	0.44
39:c:422:LYS:NZ	39:c:425:LEU:HD12	2.31	0.44
42:e:170:ARG:HH22	42:e:186:GLU:HG3	1.81	0.44
42:e:416:HIS:HD2	42:e:420:VAL:HG22	1.81	0.44
42:f:120:SER:OG	42:f:124:LEU:N	2.37	0.44
42:f:460:HIS:NE2	42:f:478:THR:OG1	2.46	0.44
42:g:230:LEU:HB3	42:g:239:LEU:HD11	1.98	0.44
44:h2:58:MET:HE3	44:h2:60:TRP:NE1	2.31	0.44
44:h2:86:ASP:OD1	44:h2:86:ASP:N	2.48	0.44
44:h3:79:ILE:HG22	44:h3:80:TYR:H	1.82	0.44
4:j1:44:GLU:OE2	4:j1:46:LEU:HB2	2.17	0.44
47:p:220:LYS:HG3	47:p:224:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:584:ASP:N	2:1:584:ASP:OD1	2.49	0.44
4:5:315:ASN:HA	4:5:318:VAL:HB	2.00	0.44
5:8:113:LEU:HD12	5:8:113:LEU:HA	1.87	0.44
7:A3:130:ASP:OD1	7:A3:130:ASP:N	2.42	0.44
9:AF:68:LEU:HB3	9:AF:96:GLY:HA2	1.99	0.44
9:AJ:171:PRO:HB2	9:AJ:181:GLU:OE2	2.17	0.44
9:AJ:224:ASP:OD1	9:AJ:225:LEU:N	2.50	0.44
9:AJ:228:LEU:O	9:AJ:232:THR:HG23	2.17	0.44
9:AN:304:ASP:HB3	9:AN:307:HIS:ND1	2.33	0.44
9:AP:336:LYS:HD2	37:YH:30:ALA:HB1	2.00	0.44
9:AP:336:LYS:HZ3	37:YH:31:MET:HE1	1.81	0.44
11:B3:36:HIS:HA	11:B3:39:ARG:HE	1.80	0.44
9:BB:265:PHE:HB2	9:BB:374:ILE:CD1	2.47	0.44
9:BF:37:HIS:HA	17:J:315:ARG:HH12	1.81	0.44
8:BK:215:ARG:NH1	8:BK:216:ASN:OD1	2.51	0.44
9:BL:180:VAL:O	9:BL:180:VAL:HG12	2.17	0.44
8:BM:111:GLY:O	8:BM:115:VAL:HG23	2.18	0.44
8:BO:183:GLU:HA	8:BO:186:ASN:ND2	2.32	0.44
10:C:485:TYR:CD1	8:GG:41:THR:CG2	3.00	0.44
12:C4:276:ASN:HA	12:C5:395:VAL:HG11	2.00	0.44
12:C4:320:LYS:O	12:C4:324:GLU:HG2	2.17	0.44
12:C5:415:MET:SD	12:C5:415:MET:N	2.91	0.44
8:CE:53:PHE:HB3	8:CE:61:HIS:HB3	2.00	0.44
8:CG:2:ARG:H	8:CG:2:ARG:HG2	1.62	0.44
9:CH:102:ALA:HB2	9:CH:403:MET:HE3	1.99	0.44
8:CI:46:ASP:HB3	8:CI:47:ASP:H	1.52	0.44
8:CI:262:TYR:HD2	8:CI:265:ILE:HD12	1.82	0.44
9:CL:306:ARG:HG2	9:CL:306:ARG:HH11	1.82	0.44
8:CM:252:LEU:O	8:CM:256:GLN:HB2	2.18	0.44
9:CN:309:ARG:H	9:CN:372:THR:HB	1.82	0.44
9:CP:299:MET:H	9:CP:299:MET:HG2	1.46	0.44
9:CP:321:MET:SD	9:CP:321:MET:N	2.90	0.44
8:CQ:136:LEU:H	8:CQ:136:LEU:HD23	1.83	0.44
14:D4:217:ASP:CB	14:D5:365:ASN:HD22	2.30	0.44
9:DB:137:HIS:HB2	9:DB:144:GLY:HA3	2.00	0.44
8:DC:88:HIS:HD2	8:EA:283:HIS:HB2	1.82	0.44
9:DF:164:MET:HE3	9:DF:196:THR:HA	1.99	0.44
8:DG:265:ILE:HG23	8:DG:432:TYR:CZ	2.51	0.44
8:DI:328:VAL:O	8:DI:332:ILE:HG12	2.17	0.44
9:DJ:372:THR:HG21	9:DJ:426:GLN:HB2	1.98	0.44
8:DK:79:ARG:HH21	8:DK:94:THR:HG23	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DL:5:VAL:HB	9:DL:133:PHE:HD1	1.81	0.44
8:DM:25:CYS:O	8:DM:30:ILE:N	2.51	0.44
8:DO:408:TYR:HB3	8:DO:413:MET:CE	2.48	0.44
8:DQ:338:LYS:HD3	8:DQ:340:THR:H	1.81	0.44
15:E:149:ASN:HB3	15:E:195:CYS:HB3	1.98	0.44
8:EE:1:MET:SD	8:EE:1:MET:N	2.89	0.44
8:EG:70:LEU:HD23	8:EG:145:THR:HG23	1.98	0.44
8:EK:166:LYS:N	8:EK:199:ASP:OD2	2.42	0.44
8:EM:151:SER:HA	8:EM:193:THR:HG21	1.99	0.44
9:EN:180:VAL:HG22	9:EN:183:TYR:HB2	2.00	0.44
15:F:280:THR:OG1	15:F:283:ASP:OD2	2.28	0.44
8:FA:388:TRP:CD1	8:FA:425:LEU:HD11	2.52	0.44
9:FB:407:GLU:HA	9:FB:410:GLU:HG2	1.99	0.44
9:FD:257:MET:SD	9:FD:312:THR:OG1	2.59	0.44
9:FF:252:LYS:HA	8:FG:100:ALA:HB1	2.00	0.44
9:FL:406:MET:N	9:FL:406:MET:HE2	2.33	0.44
8:GA:302:MET:HE3	8:GA:302:MET:HB3	1.89	0.44
8:GA:352:LYS:HA	9:GB:177:ASP:O	2.17	0.44
9:GB:2:ARG:HG2	9:GB:131:GLN:HE21	1.82	0.44
9:GB:184:ASN:OD1	9:GB:398:TYR:OH	2.34	0.44
9:GB:324:LYS:HD2	8:GC:210:TYR:CE2	2.52	0.44
8:GC:70:LEU:H	8:GC:145:THR:HG21	1.82	0.44
9:GD:60:VAL:HG11	9:HD:281:TYR:HB3	2.00	0.44
9:GD:252:LYS:HA	8:GE:100:ALA:HB1	1.99	0.44
9:GH:156:ARG:HG3	9:GH:195:ASN:HB3	1.98	0.44
8:GK:133:GLN:HB3	8:GK:252:LEU:HD21	1.99	0.44
8:GK:297:GLU:O	8:GK:301:GLN:NE2	2.38	0.44
9:GL:276:ARG:NH2	26:P2:8:LEU:HD23	2.32	0.44
9:GL:375:GLN:NE2	9:GL:423:GLN:OE1	2.40	0.44
8:GM:56:THR:HG21	8:GM:60:LYS:HE3	1.99	0.44
9:GN:139:LEU:HB2	9:GN:171:PRO:HD3	2.00	0.44
9:HD:363:MET:HE2	9:HD:363:MET:HB2	1.75	0.44
8:HK:311:LYS:HD3	8:HK:344:VAL:HG12	2.00	0.44
8:HM:392:ASP:HA	8:HM:422:ARG:HH22	1.82	0.44
9:HN:284:LEU:HD22	9:HN:363:MET:HE2	2.00	0.44
17:I:58:PRO:O	17:I:59:MET:HG2	2.18	0.44
17:I:232:MET:HE2	17:I:232:MET:HB3	1.92	0.44
8:IA:5:ILE:O	8:IA:136:LEU:HD23	2.16	0.44
8:IA:79:ARG:HA	8:IA:84:ARG:HD3	1.99	0.44
8:IA:220:GLU:CD	8:IA:220:GLU:H	2.24	0.44
8:IA:311:LYS:H	8:IA:382:THR:HG22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IA:317:MET:SD	8:IA:351:PHE:HD1	2.39	0.44
8:IC:38:SER:OG	8:IC:39:ASP:N	2.49	0.44
8:IC:51:THR:HG21	8:IC:243:ARG:HG2	2.00	0.44
8:IC:70:LEU:HD23	8:IC:145:THR:HG23	1.99	0.44
8:IC:284:GLU:OE2	8:IC:284:GLU:N	2.50	0.44
9:ID:296:ALA:HB1	9:ID:299:MET:HE2	1.99	0.44
8:IE:83:TYR:HB3	8:IE:86:LEU:HB3	1.98	0.44
8:IE:262:TYR:HB2	8:IE:265:ILE:HD12	1.99	0.44
8:IG:98:ASP:O	8:IG:105:ARG:NH2	2.51	0.44
9:IH:72:THR:O	9:IH:75:SER:OG	2.32	0.44
9:IL:309:ARG:H	9:IL:372:THR:HB	1.82	0.44
8:IM:8:HIS:HE1	8:IM:65:ALA:HB1	1.82	0.44
9:JB:180:VAL:HG11	9:JB:394:PHE:CE2	2.51	0.44
9:JD:362:LYS:HG2	9:JD:363:MET:SD	2.57	0.44
8:JE:322:ASP:OD1	8:JE:373:ARG:NH2	2.51	0.44
8:JI:335:ILE:HD12	8:JI:335:ILE:HA	1.81	0.44
9:JJ:64:VAL:HG21	9:JJ:120:VAL:HG12	2.00	0.44
9:JN:25:SER:O	9:JN:29:GLY:N	2.50	0.44
8:JO:352:LYS:HZ1	9:JP:179:VAL:H	1.64	0.44
9:JP:182:PRO:HG3	9:JP:384:GLN:NE2	2.32	0.44
8:JQ:390:ARG:HH11	8:JQ:390:ARG:HG2	1.82	0.44
8:JQ:425:LEU:HD12	8:JQ:428:LEU:HD12	1.99	0.44
13:K3:389:TYR:OH	29:S:169:GLU:OE1	2.35	0.44
13:K3:429:PRO:HB2	13:K3:430:LEU:HD12	1.99	0.44
8:KA:264:ARG:HE	44:h1:128:GLN:CD	2.25	0.44
8:KA:313:MET:HG3	8:KA:346:TRP:CH2	2.52	0.44
8:KA:338:LYS:HG3	8:KA:341:ILE:HG12	1.98	0.44
8:KC:149:PHE:CD1	8:KC:152:LEU:HD11	2.53	0.44
9:KD:1:MET:HE1	9:KD:2:ARG:HE	1.82	0.44
9:KD:318:ARG:HB3	9:KD:358:PRO:HD3	1.98	0.44
8:KK:269:LEU:HD21	8:KK:384:ILE:HD12	1.99	0.44
9:KL:335:ASN:OD1	9:KL:336:LYS:HD2	2.16	0.44
8:KO:279:GLU:H	8:KO:279:GLU:CD	2.22	0.44
9:KP:1:MET:N	9:KP:128:ASP:OD1	2.50	0.44
21:L1:140:ARG:CZ	8:VG:365:GLY:H	2.30	0.44
9:LF:383:GLU:CD	44:h2:90:TRP:HE1	2.25	0.44
8:LI:402:ARG:NH1	8:LI:415:GLU:OE2	2.50	0.44
9:LJ:156:ARG:HD2	9:LJ:156:ARG:HA	1.86	0.44
9:LP:5:VAL:HB	9:LP:133:PHE:HD1	1.82	0.44
9:MB:27:GLU:O	9:MB:43:GLN:NE2	2.31	0.44
9:MD:272:PRO:HG3	9:MD:364:SER:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MG:265:ILE:HG21	8:MG:313:MET:HE1	2.00	0.44
8:MK:118:VAL:HG11	8:MK:149:PHE:HZ	1.82	0.44
17:N:245:ASP:O	17:N:249:LYS:HG2	2.18	0.44
9:ND:170:VAL:HG21	9:ND:377:LEU:HD11	2.00	0.44
9:ND:363:MET:HA	9:ND:363:MET:HE2	1.98	0.44
9:NF:1:MET:HB3	9:NF:2:ARG:H	1.63	0.44
8:NG:164:LYS:HE3	8:NG:164:LYS:HB3	1.65	0.44
8:NG:382:THR:HA	8:NG:432:TYR:HE2	1.80	0.44
8:NI:298:PRO:HA	8:NI:301:GLN:HG2	1.98	0.44
9:NJ:407:GLU:HA	9:NJ:410:GLU:HG2	1.98	0.44
8:NK:234:ILE:O	8:NK:238:ILE:HG12	2.17	0.44
8:NO:122:ILE:HA	8:NO:125:LEU:HD12	1.99	0.44
17:O7:215:ARG:HD2	17:O7:244:MET:HG3	1.99	0.44
17:O8:43:LEU:HD12	27:P3:146:VAL:HG11	1.97	0.44
17:O8:159:GLU:HA	17:O8:162:TRP:HD1	1.82	0.44
9:OB:8:GLN:HE21	9:OB:14:ASN:HA	1.82	0.44
9:OB:52:ASN:HB3	9:OB:60:VAL:HG23	1.99	0.44
8:OE:209:ILE:HD11	8:OE:231:ILE:HD11	1.99	0.44
9:OF:19:LYS:HA	9:OF:22:GLU:CD	2.42	0.44
8:OG:168:GLU:HB3	8:OG:201:ALA:HA	2.00	0.44
9:OJ:262:ARG:HH21	9:OJ:418:LEU:HB2	1.83	0.44
8:OK:7:ILE:HG22	8:OK:137:ILE:HA	1.99	0.44
8:OK:288:VAL:HG21	8:OK:327:ASP:OD1	2.18	0.44
8:OK:311:LYS:H	8:OK:382:THR:HG22	1.82	0.44
8:OO:280:LYS:O	8:OO:284:GLU:HG2	2.17	0.44
23:P:20:ARG:HA	23:P:20:ARG:HD2	1.68	0.44
23:P:251:ASP:HA	23:P:254:THR:HG22	1.99	0.44
27:P3:138:PRO:HD2	27:P3:148:LYS:HE2	2.00	0.44
27:P3:163:ARG:HH22	30:U0:316:ARG:HG2	1.81	0.44
27:P6:155:GLY:C	11:R3:358:GLN:HE21	2.25	0.44
8:PC:11:GLN:HG3	8:PC:74:VAL:HG11	1.98	0.44
8:PI:261:PRO:HG3	8:PI:313:MET:HE3	1.98	0.44
9:PJ:27:GLU:CD	9:PJ:318:ARG:HH22	2.25	0.44
9:PJ:266:PHE:HE1	9:PJ:370:ASN:HB2	1.82	0.44
8:PM:153:LEU:O	8:PM:157:LEU:HB2	2.17	0.44
9:PN:87:PRO:HD3	9:QN:281:TYR:CD2	2.52	0.44
9:PN:336:LYS:H	9:PN:336:LYS:HG2	1.63	0.44
8:PO:252:LEU:HA	8:PO:255:PHE:CE1	2.52	0.44
28:Q2:195:ILE:HG21	12:S6:104:LEU:HD12	1.99	0.44
28:Q4:113:LEU:HD23	28:Q4:113:LEU:HA	1.75	0.44
8:QC:210:TYR:O	8:QC:214:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QC:271:THR:HA	8:QC:302:MET:HE1	1.98	0.44
9:QD:170:VAL:HG11	9:QD:377:LEU:HD21	1.98	0.44
9:QD:202:ILE:HA	9:QD:300:MET:HE1	1.99	0.44
8:QE:313:MET:HE2	8:QE:346:TRP:HH2	1.82	0.44
9:QF:314:ALA:HB3	9:QF:368:ILE:HB	2.00	0.44
8:QG:339:ARG:O	8:QG:339:ARG:NE	2.47	0.44
9:QH:244:GLY:N	9:QH:247:ASN:OD1	2.50	0.44
9:QJ:257:MET:SD	9:QJ:312:THR:OG1	2.56	0.44
9:QN:50:TYR:HE1	9:QN:241:ARG:HD3	1.82	0.44
8:QO:12:ALA:C	8:QO:16:ILE:HD12	2.42	0.44
9:QP:36:TYR:CZ	9:QP:44:LEU:HD22	2.52	0.44
9:QP:376:GLU:O	9:QP:380:ARG:NH1	2.50	0.44
11:R3:274:SER:O	11:R3:278:GLU:HG2	2.17	0.44
11:R5:40:GLN:O	11:R5:44:ILE:HG12	2.18	0.44
8:RC:236:SER:OG	8:RC:243:ARG:NH2	2.48	0.44
9:RD:362:LYS:HD3	9:RD:363:MET:HG2	1.99	0.44
8:RI:90:GLU:HG3	8:RI:121:ARG:HH11	1.83	0.44
8:RI:114:ILE:HD12	8:RI:117:LEU:HD12	1.98	0.44
29:S:81:ASP:OD2	29:S:85:ARG:NE	2.51	0.44
12:S1:350:ARG:HD2	12:S1:350:ARG:HA	1.72	0.44
12:S1:453:ALA:HB1	12:S9:405:ARG:HH22	1.83	0.44
12:S3:145:ASN:HB2	12:S4:419:ARG:HH22	1.81	0.44
12:S3:197:GLU:OE1	12:S6:248:ARG:NH2	2.42	0.44
12:S4:403:ARG:HB3	12:S4:406:ARG:NH1	2.32	0.44
12:S5:318:SER:O	12:S5:322:ARG:HG3	2.18	0.44
12:S7:222:GLU:HA	12:S7:339:GLN:HG2	1.99	0.44
8:SA:3:GLU:OE2	8:SA:64:ARG:NH2	2.50	0.44
9:SB:261:PRO:HG3	8:SC:406:HIS:CD2	2.53	0.44
8:SE:62:VAL:HG22	8:TE:283:HIS:CD2	2.51	0.44
8:SE:377:MET:SD	8:SE:378:LEU:N	2.90	0.44
9:SF:279:GLN:H	9:SF:279:GLN:HG2	1.64	0.44
9:SH:121:ARG:HD3	9:SH:122:LYS:HD3	1.99	0.44
8:SI:239:THR:HG23	8:SI:242:LEU:HD12	1.99	0.44
8:SI:377:MET:HE3	8:SI:378:LEU:N	2.31	0.44
8:SK:132:LEU:O	8:SK:164:LYS:NZ	2.45	0.44
9:SL:204:ASN:ND2	52:SL:502:GDP:N3	2.66	0.44
9:SL:285:THR:HB	9:SL:287:PRO:HD2	1.99	0.44
8:SM:120:ASP:O	8:SM:124:LYS:HG2	2.16	0.44
8:SM:325:PRO:HA	8:SM:328:VAL:HB	1.99	0.44
9:SN:8:GLN:HE21	9:SN:14:ASN:HA	1.82	0.44
25:T:279:HIS:NE2	25:T:287:PRO:HA	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T0:67:ALA:O	14:T0:71:ARG:HG3	2.16	0.44
14:T4:326:LEU:HD21	14:T4:409:ARG:HH11	1.82	0.44
8:TA:191:THR:HA	8:TA:194:THR:HG22	2.00	0.44
8:TC:239:THR:OG1	8:TC:243:ARG:NH1	2.49	0.44
8:TC:242:LEU:HD12	8:TC:242:LEU:H	1.82	0.44
9:TD:407:GLU:HA	9:TD:410:GLU:HG2	1.98	0.44
9:TF:63:ALA:HB3	9:TF:85:PHE:CE1	2.52	0.44
9:TH:267:MET:HE1	9:TH:367:PHE:HE2	1.82	0.44
9:TH:371:SER:O	9:TH:422:TYR:OH	2.27	0.44
9:TJ:412:GLU:HA	9:TJ:415:MET:HG2	1.99	0.44
9:TL:31:ASP:OD1	9:TL:35:THR:N	2.49	0.44
9:TL:224:ASP:O	9:TL:228:LEU:HD22	2.17	0.44
9:TN:174:LYS:HB3	9:TN:205:GLU:OE2	2.17	0.44
9:TN:309:ARG:HG3	9:TN:426:GLN:HG3	1.99	0.44
25:U:380:GLU:OE1	25:U:381:LEU:N	2.50	0.44
30:U7:205:ASP:OD2	30:U7:461:THR:OG1	2.29	0.44
30:U7:280:PHE:H	30:U8:393:GLN:HG2	1.82	0.44
30:U8:396:LEU:O	30:U8:400:THR:HG23	2.16	0.44
8:UA:328:VAL:HG11	8:UA:353:VAL:HG11	1.98	0.44
8:UE:235:VAL:HA	8:UE:238:ILE:HD12	1.98	0.44
8:UE:372:GLN:HB3	39:c:369:ILE:HD13	1.99	0.44
9:UF:41:ASP:OD2	9:UF:42:LEU:N	2.50	0.44
8:UG:154:MET:HE2	8:UG:197:HIS:HB3	1.98	0.44
9:UH:20:PHE:HB2	9:UH:233:MET:CE	2.47	0.44
9:UJ:167:PHE:CZ	9:UJ:233:MET:HG2	2.51	0.44
9:UL:150:LEU:HG	9:UL:154:LYS:HE2	1.98	0.44
9:UL:345:ILE:HA	8:UM:398:MET:HE1	1.99	0.44
8:UM:73:THR:O	8:UM:77:GLU:HG2	2.18	0.44
8:UO:16:ILE:HD11	8:UO:231:ILE:HB	1.98	0.44
8:UO:70:LEU:HB3	8:UO:98:ASP:HA	1.99	0.44
30:V0:347:ILE:O	30:V0:351:THR:HG22	2.18	0.44
30:V0:443:LEU:HA	30:V0:446:MET:SD	2.58	0.44
30:V1:330:ASP:O	30:V1:334:LYS:HG2	2.17	0.44
30:V2:427:LEU:O	30:V2:431:LYS:HG3	2.18	0.44
30:V6:158:TYR:O	30:V6:162:ARG:HG2	2.17	0.44
30:V7:329:SER:OG	30:V7:330:ASP:N	2.50	0.44
30:V8:371:ALA:HB3	30:V8:441:LEU:HD13	1.98	0.44
8:VC:52:PHE:CA	8:VC:64:ARG:HE	2.30	0.44
9:VF:113:VAL:O	9:VF:117:LEU:HG	2.18	0.44
8:VG:70:LEU:HB3	8:VG:98:ASP:HA	1.98	0.44
8:VI:7:ILE:HB	8:VI:137:ILE:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VJ:146:GLY:O	9:VJ:149:THR:OG1	2.32	0.44
8:VK:93:ILE:HD13	8:VK:117:LEU:HG	1.98	0.44
8:VM:219:ILE:HG13	8:VM:219:ILE:O	2.17	0.44
31:W:383:LEU:HD12	31:W:384:PRO:HD2	1.98	0.44
31:W:409:LEU:HD12	31:W:409:LEU:H	1.81	0.44
31:W:509:ILE:HG22	31:W:596:ASP:HB2	1.99	0.44
31:W:706:ASP:O	31:W:708:GLN:HG2	2.17	0.44
30:W4:466:LYS:O	30:W4:466:LYS:NZ	2.33	0.44
30:W6:140:ARG:O	30:W6:145:ARG:NH2	2.51	0.44
8:WC:417:GLU:HA	8:WC:420:GLU:HG2	1.99	0.44
9:WH:3:GLU:OE2	9:WH:48:ASN:OD1	2.36	0.44
8:WK:108:TYR:HA	8:WK:112:LYS:HE3	2.00	0.44
8:WM:219:ILE:HG22	8:WM:221:ARG:H	1.83	0.44
9:WP:5:VAL:HG22	9:WP:62:ARG:HD2	1.98	0.44
31:X:71:TRP:H	31:X:71:TRP:CD1	2.34	0.44
31:X:553:LYS:HB3	31:X:553:LYS:HE3	1.77	0.44
31:X:696:VAL:HG22	31:X:702:ASN:HD21	1.80	0.44
33:X4:219:GLN:O	33:X4:221:PRO:HD3	2.17	0.44
35:XB:35:LYS:HG3	35:XB:37:ILE:HG23	1.99	0.44
35:XH:169:ASP:OD1	35:XH:169:ASP:N	2.40	0.44
37:YE:89:TYR:H	37:YE:125:LYS:HE2	1.82	0.44
31:Z:171:ASP:O	31:Z:175:LYS:HG3	2.18	0.44
41:b1:375:ARG:HH12	41:b1:379:LYS:CD	2.30	0.44
41:b2:208:SER:O	41:b2:211:ARG:HB2	2.17	0.44
41:b3:262:HIS:NE2	41:b3:278:LEU:HB3	2.33	0.44
41:b4:387:LEU:HD12	41:b4:387:LEU:O	2.16	0.44
39:c:291:ASP:O	39:c:295:GLU:HG2	2.17	0.44
39:c:400:ARG:O	39:c:404:ARG:HG2	2.16	0.44
42:f:126:LEU:N	42:f:140:TRP:O	2.45	0.44
42:g:208:VAL:HG13	42:g:222:LEU:HB3	1.98	0.44
42:g:229:ILE:HD13	42:g:264:LEU:HD12	1.99	0.44
46:i3:1340:TRP:CH2	46:i3:1344:LEU:HD22	2.52	0.44
46:i4:1468:LEU:HD13	46:i4:1504:LYS:HB3	1.98	0.44
4:j1:190:GLU:H	4:j1:190:GLU:CD	2.25	0.44
2:2:481:MET:HA	2:2:484:ALA:HB3	2.00	0.44
3:3:130:MET:HE1	9:HL:39:ASP:HB2	2.00	0.44
4:5:290:ILE:HB	4:5:329:ILE:HG23	1.99	0.44
7:A2:207:ILE:HD13	33:X4:133:PHE:CE2	2.53	0.44
7:A2:288:GLU:OE2	7:A3:34:SER:OG	2.35	0.44
9:AB:362:LYS:HE2	9:AB:362:LYS:HB2	1.71	0.44
8:AE:129:CYS:SG	8:AE:130:THR:N	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:116:ASP:OD1	8:AK:116:ASP:N	2.51	0.44
8:AM:320:ARG:HD3	8:AM:360:PRO:HG3	2.00	0.44
9:AN:123:GLU:O	9:AN:126:SER:OG	2.31	0.44
9:AP:4:ILE:HG21	9:AP:50:TYR:CZ	2.53	0.44
9:AP:304:ASP:HB3	9:AP:307:HIS:HD1	1.81	0.44
10:B:129:LYS:HB2	10:B:129:LYS:HE2	1.81	0.44
11:B4:64:LEU:O	11:B4:68:ILE:HG13	2.17	0.44
9:BD:167:PHE:CZ	9:BD:233:MET:HG3	2.53	0.44
9:BF:163:ILE:CD1	9:BF:251:ARG:HE	2.28	0.44
9:BF:293:MET:SD	9:BF:367:PHE:HB2	2.58	0.44
8:BG:103:TYR:HB3	8:BG:408:TYR:HE2	1.82	0.44
8:BG:195:LEU:HD21	8:BG:264:ARG:HH11	1.82	0.44
9:BH:8:GLN:HE21	9:BH:14:ASN:HA	1.82	0.44
8:BK:221:ARG:NH2	17:L:228:PHE:O	2.49	0.44
9:BL:57:GLY:HA3	17:M:314:ARG:NH2	2.33	0.44
8:BO:5:ILE:HB	8:BO:135:PHE:CE2	2.53	0.44
9:BP:8:GLN:HE21	9:BP:14:ASN:HA	1.83	0.44
9:BP:245:GLN:HG2	9:BP:323:MET:HE2	1.98	0.44
9:CD:45:GLU:OE1	40:a1:17:TYR:OH	2.36	0.44
9:CD:86:ARG:HA	9:DD:281:TYR:CD2	2.52	0.44
9:CF:376:GLU:O	9:CF:380:ARG:NH1	2.45	0.44
9:CH:273:LEU:O	9:CH:292:GLN:NE2	2.47	0.44
9:CL:149:THR:O	9:CL:152:ILE:HG22	2.17	0.44
8:CM:350:GLY:HA2	9:CN:179:VAL:HG12	2.00	0.44
8:CQ:225:THR:O	8:CQ:229:ARG:N	2.40	0.44
14:D2:61:TYR:CE1	38:Z1:144:GLU:HG2	2.52	0.44
14:D4:174:VAL:O	14:D4:178:LYS:HG2	2.17	0.44
14:D5:365:ASN:CG	14:D5:366:VAL:H	2.25	0.44
9:DB:239:CYS:SG	9:DB:248:ALA:N	2.90	0.44
8:DG:269:LEU:HD21	8:DG:384:ILE:HD12	1.98	0.44
8:DI:2:ARG:HA	8:DI:133:GLN:HG3	1.99	0.44
9:DL:42:LEU:H	9:DL:42:LEU:HD23	1.82	0.44
8:EA:191:THR:HA	8:EA:194:THR:HG22	1.99	0.44
8:EM:87:PHE:HB3	8:EM:92:LEU:HD21	1.98	0.44
9:EN:207:LEU:HD12	9:EN:300:MET:HB2	1.98	0.44
8:FA:157:LEU:HD22	8:FA:166:LYS:HD3	1.99	0.44
8:FC:21:TRP:HA	8:FC:24:TYR:HD2	1.81	0.44
8:FE:195:LEU:HD13	8:FE:428:LEU:HD11	1.99	0.44
9:FF:116:VAL:HG11	9:FF:151:LEU:HD11	1.98	0.44
9:FF:221:THR:N	9:FF:224:ASP:OD2	2.49	0.44
9:FJ:6:HIS:CD2	9:FJ:8:GLN:HG3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:125:GLU:OE2	9:FJ:159:TYR:OH	2.29	0.44
8:FK:53:PHE:HB3	8:FK:61:HIS:HB3	1.98	0.44
9:FL:387:ALA:HA	9:FL:390:ARG:HH21	1.82	0.44
9:FN:24:ILE:HA	9:FN:27:GLU:CD	2.42	0.44
8:GA:264:ARG:NH1	8:GA:431:ASP:OD2	2.48	0.44
9:GB:256:ASN:ND2	8:GC:181:VAL:HB	2.28	0.44
9:GB:267:MET:HE1	9:GB:367:PHE:CE2	2.53	0.44
8:GE:32:PRO:HD3	49:y:78:TYR:HD1	1.82	0.44
8:GG:105:ARG:HB3	8:GG:110:ILE:CD1	2.47	0.44
9:GH:151:LEU:O	9:GH:155:ILE:HG12	2.16	0.44
9:GJ:72:THR:O	9:GJ:75:SER:OG	2.25	0.44
8:GM:57:GLY:N	8:HM:285:GLN:OE1	2.51	0.44
8:GM:68:VAL:HG12	8:GM:93:ILE:HB	1.98	0.44
8:GM:105:ARG:HH21	8:GM:110:ILE:HD11	1.82	0.44
9:HB:351:THR:HG23	8:HC:179:THR:HG23	1.99	0.44
8:HC:426:ALA:O	8:HC:430:LYS:HG2	2.18	0.44
9:HF:345:ILE:HA	8:HG:398:MET:HE1	1.98	0.44
8:HK:101:ASN:HA	8:HK:144:GLY:H	1.81	0.44
8:HM:19:ALA:O	8:HM:22:GLU:HG2	2.17	0.44
9:HN:7:LEU:HB3	9:HN:135:LEU:HB2	1.99	0.44
9:HN:72:THR:O	9:HN:75:SER:OG	2.29	0.44
9:HN:267:MET:HE3	9:HN:374:ILE:HG22	1.98	0.44
9:HP:166:THR:HG23	9:HP:199:THR:HG23	1.97	0.44
18:I1:120:HIS:HA	18:I1:125:HIS:ND1	2.32	0.44
9:IB:336:LYS:HZ2	9:IB:337:ASN:HB2	1.82	0.44
9:IF:38:GLY:HA3	9:IF:43:GLN:NE2	2.27	0.44
8:IG:261:PRO:HA	9:IH:394:PHE:CE2	2.53	0.44
9:IH:87:PRO:HG2	8:JI:279:GLU:OE2	2.17	0.44
8:II:103:TYR:CE2	8:II:189:LEU:HB3	2.53	0.44
8:IK:205:ASP:OD1	8:IK:205:ASP:N	2.48	0.44
8:IM:248:LEU:HD23	8:IM:248:LEU:HA	1.89	0.44
8:IM:328:VAL:HG11	8:IM:353:VAL:HG21	1.99	0.44
9:IN:212:PHE:HD1	9:IN:213:ARG:HH21	1.65	0.44
8:IO:70:LEU:HD23	8:IO:95:GLY:HA3	1.99	0.44
8:IO:84:ARG:HG3	8:IO:85:GLN:HG3	2.00	0.44
8:IO:91:GLN:O	8:IO:93:ILE:HG13	2.16	0.44
9:IP:143:THR:HG1	52:IP:502:GDP:PB	2.39	0.44
9:IP:238:THR:HG21	9:IP:318:ARG:HD2	1.99	0.44
19:J5:54:ARG:N	19:J5:57:MET:SD	2.90	0.44
8:JC:416:GLY:O	8:JC:420:GLU:HG2	2.17	0.44
8:JE:151:SER:O	8:JE:154:MET:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JE:338:LYS:HD2	8:JE:341:ILE:HG12	1.99	0.44
9:JF:269:GLY:N	9:JF:367:PHE:O	2.50	0.44
9:JF:347:ASN:O	8:JG:181:VAL:HG22	2.17	0.44
9:JF:350:LYS:HE2	8:JG:180:ALA:HA	1.99	0.44
8:JI:60:LYS:HB2	8:JI:60:LYS:HE2	1.69	0.44
8:JK:139:HIS:O	8:JK:170:ALA:HA	2.17	0.44
9:JL:147:MET:HE3	9:JL:151:LEU:HD11	1.99	0.44
9:JL:161:ASP:OD2	9:JL:162:ARG:NE	2.50	0.44
8:JM:392:ASP:HB3	8:JM:422:ARG:CZ	2.47	0.44
9:JN:31:ASP:OD2	9:JN:35:THR:OG1	2.32	0.44
9:JN:318:ARG:HD3	9:JN:358:PRO:HD3	1.99	0.44
8:JO:241:SER:OG	8:JO:250:VAL:N	2.50	0.44
8:JO:269:LEU:O	8:JO:378:LEU:HA	2.16	0.44
8:JQ:70:LEU:HD13	8:JQ:95:GLY:HA3	1.99	0.44
9:KF:166:THR:HG23	9:KF:199:THR:HG23	1.99	0.44
8:KI:109:THR:HG23	8:KI:411:GLU:OE2	2.17	0.44
9:KJ:324:LYS:HG3	8:KK:222:PRO:HD2	1.99	0.44
9:KJ:400:GLY:HA2	44:h3:123:PRO:HG3	1.99	0.44
8:KO:6:SER:HB3	8:KO:8:HIS:CE1	2.53	0.44
8:KO:66:VAL:HG23	8:KO:125:LEU:HD12	1.97	0.44
8:KO:319:TYR:HB2	8:KO:355:ILE:HD13	1.99	0.44
9:KP:418:LEU:HD23	9:KP:418:LEU:HA	1.86	0.44
21:L1:110:ARG:HB3	21:L1:113:ALA:HB2	1.99	0.44
21:L1:133:MET:SD	9:VF:245:GLN:CA	3.05	0.44
8:LA:5:ILE:HD13	8:LA:125:LEU:HB3	2.00	0.44
9:LB:2:ARG:HD2	9:LB:240:LEU:HD11	1.99	0.44
9:LB:21:TRP:CZ3	9:LB:24:ILE:HD11	2.53	0.44
9:LB:33:THR:O	9:LB:58:LYS:NZ	2.50	0.44
9:LD:345:ILE:HB	9:LD:348:ASN:OD1	2.18	0.44
9:LD:416:ASN:OD1	41:b2:489:PRO:HB3	2.17	0.44
8:LK:203:MET:HE1	8:LK:267:PHE:HB3	2.00	0.44
9:LL:1:MET:HE3	8:LM:72:PRO:HG3	2.00	0.44
8:LM:57:GLY:HA2	23:P:38:MET:HE3	1.97	0.44
8:LM:111:GLY:O	8:LM:115:VAL:HG23	2.17	0.44
8:LM:326:LYS:HG2	8:LM:326:LYS:H	1.54	0.44
9:LN:5:VAL:HB	9:LN:133:PHE:HD1	1.81	0.44
9:LN:329:GLN:O	9:LN:333:VAL:HG22	2.18	0.44
9:LP:324:LYS:HE2	9:LP:324:LYS:HB3	1.82	0.44
22:M2:147:TYR:HB3	22:M2:148:PRO:HD3	1.98	0.44
9:MB:285:THR:OG1	9:MB:287:PRO:HD2	2.18	0.44
8:MC:194:THR:O	8:MC:266:HIS:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MK:98:ASP:OD1	8:MK:98:ASP:N	2.50	0.44
9:ML:163:ILE:HD13	9:ML:250:LEU:HB3	1.98	0.44
9:ML:251:ARG:NH1	8:MM:97:GLU:OE1	2.37	0.44
9:ML:395:LEU:O	9:ML:399:THR:HG22	2.16	0.44
9:NF:324:LYS:CE	8:NG:222:PRO:HD2	2.47	0.44
9:NH:198:GLU:HB2	9:NH:266:PHE:CE2	2.52	0.44
9:NJ:305:PRO:HB2	9:NJ:310:TYR:CE1	2.50	0.44
9:NJ:321:MET:SD	9:NJ:321:MET:N	2.90	0.44
8:NK:241:SER:HB3	8:NK:250:VAL:H	1.82	0.44
8:NM:75:VAL:HG12	8:NM:79:ARG:CZ	2.46	0.44
8:NM:298:PRO:HA	8:NM:301:GLN:HG2	2.00	0.44
9:NN:407:GLU:HA	9:NN:410:GLU:HG2	1.98	0.44
8:NO:17:GLY:O	8:NO:21:TRP:CD1	2.70	0.44
8:NO:97:GLU:HG3	8:NO:105:ARG:HH22	1.83	0.44
9:NP:268:PRO:HG2	9:NP:300:MET:SD	2.56	0.44
9:NP:271:ALA:HB1	9:NP:289:LEU:HD22	2.00	0.44
24:O3:97:ARG:NH1	11:R3:52:GLN:OE1	2.50	0.44
25:O5:97:LEU:HD22	25:O5:190:THR:HA	1.99	0.44
25:O5:326:ALA:O	25:O5:355:TYR:OH	2.35	0.44
17:O8:58:PRO:HD2	17:O8:59:MET:HE2	1.99	0.44
8:OA:210:TYR:HD1	8:OA:214:ARG:HH12	1.66	0.44
8:OA:298:PRO:HA	8:OA:301:GLN:HG2	1.98	0.44
9:OB:285:THR:OG1	9:OB:287:PRO:HD2	2.17	0.44
9:OD:162:ARG:NE	9:OD:162:ARG:HA	2.31	0.44
9:OD:289:LEU:HD12	9:OD:363:MET:HG2	1.99	0.44
8:OE:203:MET:HE3	8:OE:203:MET:HB3	1.81	0.44
8:OK:241:SER:HB3	8:OK:250:VAL:H	1.81	0.44
8:OM:202:PHE:O	8:OM:204:VAL:HG23	2.17	0.44
8:OM:341:ILE:HD13	8:OM:341:ILE:HA	1.87	0.44
8:OO:171:ILE:HD13	8:OO:204:VAL:HG13	1.99	0.44
9:OP:269:GLY:N	9:OP:367:PHE:O	2.50	0.44
17:P8:160:GLU:HA	17:P8:163:LYS:HD3	1.99	0.44
8:PC:254:GLU:HG3	9:PD:98:GLY:HA2	1.99	0.44
8:PE:11:GLN:HG3	8:PE:74:VAL:HG11	1.99	0.44
8:PG:217:LEU:HD21	8:PG:367:ASP:HB2	1.99	0.44
8:PG:324:VAL:HG12	8:PG:326:LYS:H	1.82	0.44
9:PJ:86:ARG:HB3	9:PJ:89:ASN:ND2	2.31	0.44
8:QC:86:LEU:O	8:RC:283:HIS:NE2	2.50	0.44
8:QC:176:GLN:OE1	8:QC:177:VAL:HG13	2.18	0.44
9:QF:169:VAL:HA	9:QF:202:ILE:HG13	1.98	0.44
9:QF:178:THR:HB	9:QF:181:GLU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QH:117:LEU:HA	9:QH:120:VAL:HG22	2.00	0.44
9:QH:334:GLN:HA	9:QH:341:PHE:CE2	2.53	0.44
8:QI:153:LEU:O	8:QI:157:LEU:HB2	2.16	0.44
9:QL:31:ASP:OD1	9:QL:35:THR:N	2.49	0.44
9:QL:156:ARG:HD2	9:QL:156:ARG:HA	1.71	0.44
8:QM:93:ILE:HD13	8:QM:93:ILE:HA	1.86	0.44
8:QM:219:ILE:HB	8:QM:222:PRO:HG3	1.99	0.44
8:QM:244:PHE:CE2	8:QM:357:TYR:HB2	2.53	0.44
9:QN:271:ALA:HB1	9:QN:289:LEU:HD22	2.00	0.44
8:QO:248:LEU:HD12	9:QP:11:GLN:HE22	1.82	0.44
9:QP:134:GLN:NE2	9:QP:167:PHE:HD1	2.15	0.44
11:R0:129:VAL:HG22	11:R0:130:ARG:O	2.16	0.44
11:R2:355:LYS:O	11:R2:359:THR:HG23	2.18	0.44
11:R4:30:ARG:HA	11:R4:30:ARG:NH1	2.32	0.44
8:RC:317:MET:HE2	8:RC:319:TYR:CD2	2.53	0.44
9:RD:50:TYR:CE2	9:RD:241:ARG:HD3	2.49	0.44
8:RE:103:TYR:N	8:RE:186:ASN:OD1	2.51	0.44
9:RF:327:ASP:HA	9:RF:330:MET:SD	2.57	0.44
8:RG:5:ILE:HD13	8:RG:125:LEU:HB3	1.99	0.44
9:RH:207:LEU:HB3	9:RH:225:LEU:HG	1.99	0.44
8:RI:5:ILE:HD13	8:RI:125:LEU:HB3	1.98	0.44
8:RI:312:TYR:CE2	8:RI:341:ILE:HG23	2.51	0.44
9:RJ:165:ASN:ND2	9:RJ:198:GLU:OE2	2.50	0.44
9:RL:91:VAL:HG12	9:RL:112:LEU:HD11	1.99	0.44
8:RM:139:HIS:O	8:RM:170:ALA:HA	2.17	0.44
9:RN:257:MET:HE2	9:RN:257:MET:HA	2.00	0.44
12:S8:438:LEU:O	12:S8:442:GLU:HG2	2.17	0.44
8:SA:9:VAL:HB	8:SA:139:HIS:HB3	1.99	0.44
9:SB:3:GLU:OE2	9:SB:3:GLU:N	2.51	0.44
9:SD:54:ALA:HA	9:TD:283:ALA:HB2	1.99	0.44
9:SD:372:THR:HA	9:SD:422:TYR:OH	2.17	0.44
9:SF:87:PRO:HD2	9:TF:281:TYR:CE1	2.52	0.44
8:SG:68:VAL:HG12	8:SG:93:ILE:HB	2.00	0.44
9:SH:139:LEU:HD11	9:SH:168:SER:HB2	1.99	0.44
9:SH:324:LYS:HE2	9:SH:324:LYS:HB2	1.78	0.44
9:SH:337:ASN:HB3	9:SH:340:TYR:HD2	1.82	0.44
9:SL:14:ASN:HD21	9:SL:67:ASP:HB2	1.82	0.44
9:SN:238:THR:HG23	9:SN:241:ARG:HH21	1.82	0.44
9:SN:299:MET:HE3	9:SN:300:MET:H	1.82	0.44
14:T1:258:ALA:HA	14:T1:261:ASN:HD21	1.81	0.44
14:T1:415:ASP:O	14:T1:419:LYS:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T3:100:THR:HG22	14:T4:356:ARG:HH22	1.82	0.44
14:T4:77:GLN:O	14:T4:81:SER:OG	2.24	0.44
8:TA:248:LEU:H	8:TA:355:ILE:HG23	1.82	0.44
9:TD:344:TRP:H	9:TD:344:TRP:CD1	2.35	0.44
9:TF:345:ILE:HG23	8:TG:398:MET:HE1	1.99	0.44
8:TG:21:TRP:O	8:TG:25:CYS:N	2.43	0.44
8:TG:36:MET:N	8:TG:36:MET:SD	2.90	0.44
9:TH:118:ASP:OD1	9:TH:121:ARG:NH2	2.43	0.44
8:TI:5:ILE:HD11	8:TI:129:CYS:SG	2.58	0.44
8:TI:116:ASP:OD1	8:TI:117:LEU:N	2.50	0.44
8:TK:311:LYS:H	8:TK:382:THR:HG22	1.82	0.44
9:TL:102:ALA:HB1	9:TL:403:MET:HE1	1.98	0.44
30:U2:159:GLU:HG3	30:U2:304:ILE:HD12	1.99	0.44
30:U5:179:CYS:O	30:U5:183:GLU:HG3	2.17	0.44
30:U9:439:ASP:HA	30:U9:442:GLN:CD	2.42	0.44
9:UB:36:TYR:CZ	9:UB:44:LEU:HD22	2.52	0.44
9:UB:132:GLY:HA3	9:UB:163:ILE:O	2.18	0.44
8:UC:20:CYS:HB3	8:UC:24:TYR:OH	2.17	0.44
9:UF:47:ILE:HG12	9:UF:51:TYR:HB2	1.98	0.44
9:UF:156:ARG:NH1	9:UF:197:ASP:OD1	2.33	0.44
9:UL:274:THR:HB	9:UL:278:SER:HB2	1.99	0.44
25:V:78:LYS:HA	25:V:78:LYS:HD3	1.71	0.44
30:V3:387:TYR:O	30:V3:390:LYS:HG2	2.16	0.44
30:V3:393:GLN:NE2	30:V4:283:VAL:H	2.14	0.44
30:V6:127:LYS:HD3	30:V6:127:LYS:HA	1.73	0.44
30:V6:145:ARG:HH12	30:V6:293:PRO:HB3	1.81	0.44
30:V8:294:GLU:HG2	30:V8:295:THR:HG23	1.99	0.44
8:VA:135:PHE:HD2	8:VA:166:LYS:HG2	1.82	0.44
8:VA:269:LEU:HD22	8:VA:303:VAL:HG21	2.00	0.44
8:VE:352:LYS:NZ	9:VF:179:VAL:H	2.16	0.44
8:VG:154:MET:HE1	8:VG:194:THR:HA	1.98	0.44
8:VG:217:LEU:HD11	8:VG:367:ASP:HB3	2.00	0.44
9:VH:249:ASP:H	9:VH:252:LYS:HB2	1.82	0.44
8:VM:274:PRO:HG3	8:VM:371:VAL:HG11	1.98	0.44
9:VN:77:ARG:HE	43:k:212:GLN:NE2	2.15	0.44
9:VN:241:ARG:HH21	9:VN:242:PHE:HE2	1.64	0.44
31:W:225:TYR:O	31:W:228:LYS:HG2	2.16	0.44
9:WB:156:ARG:HD3	9:WB:164:MET:CE	2.48	0.44
9:WB:363:MET:HE3	9:WB:364:SER:N	2.31	0.44
9:WD:68:LEU:HB3	9:WD:96:GLY:HA2	2.00	0.44
8:WE:167:LEU:HD23	8:WE:202:PHE:HE2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WF:139:LEU:HD11	9:WF:168:SER:HB3	1.98	0.44
9:WF:321:MET:HE1	9:WF:326:VAL:HG23	1.99	0.44
8:WG:4:CYS:SG	8:WG:136:LEU:HD22	2.57	0.44
32:X0:190:LEU:O	32:X0:192:TYR:N	2.50	0.44
36:Y0:22:LEU:HD21	36:Y1:245:TYR:CE1	2.52	0.44
36:Y5:168:LYS:HD3	36:Y5:168:LYS:HA	1.67	0.44
37:YA:141:LEU:HB3	37:YA:180:ILE:HG21	1.99	0.44
37:YE:52:LYS:HA	37:YE:52:LYS:HD2	1.72	0.44
37:YF:88:ASP:H	37:YF:92:TYR:HE1	1.64	0.44
40:a2:140:LEU:HD12	40:a2:143:GLN:NE2	2.33	0.44
41:b3:408:GLN:HE21	44:h3:105:VAL:HG23	1.82	0.44
41:b4:382:LEU:HD23	41:b4:382:LEU:N	2.23	0.44
39:c:331:ALA:O	39:c:335:LEU:HG	2.18	0.44
39:c:458:GLU:HA	39:c:461:LYS:HD2	1.99	0.44
42:e:213:MET:HG2	42:e:220:PHE:HB2	1.99	0.44
42:e:525:LYS:HA	42:e:541:GLU:HA	1.99	0.44
42:g:229:ILE:HD11	42:g:266:VAL:HG21	1.99	0.44
42:g:257:ARG:HG2	42:g:298:LEU:HD21	1.98	0.44
43:h:192:GLU:O	43:h:196:VAL:HG23	2.17	0.44
46:i3:1474:PHE:O	46:i3:1478:LEU:HD23	2.17	0.44
45:l:9:GLN:H	45:l:9:GLN:HG2	1.53	0.44
45:n:79:VAL:HG21	45:n:96:ILE:HD11	2.00	0.44
47:p:374:TYR:O	47:p:378:VAL:HG13	2.16	0.44
48:r:138:ILE:HD12	48:r:138:ILE:H	1.83	0.44
49:y:131:ASN:N	49:y:131:ASN:OD1	2.50	0.44
1:0:114:LEU:HD22	1:0:118:THR:HG21	2.00	0.44
2:2:365:PHE:CE1	4:6:351:ILE:HG12	2.52	0.44
3:3:294:ASP:O	3:3:297:GLU:HG3	2.18	0.44
3:3:308:ASP:HA	3:3:311:MET:SD	2.57	0.44
4:5:189:CYS:HA	4:5:192:LYS:HD3	1.98	0.44
5:8:113:LEU:HD12	5:8:114:PRO:HD2	1.99	0.44
7:A1:116:LEU:O	7:A1:120:GLU:HG2	2.17	0.44
7:A1:314:HIS:ND1	7:A2:201:SER:HB2	2.33	0.44
7:A1:379:LYS:O	7:A1:383:ILE:HD12	2.18	0.44
9:AB:252:LYS:NZ	50:AC:501:GTP:O3G	2.47	0.44
8:AC:11:GLN:HE21	8:AC:15:GLN:HE22	1.65	0.44
8:AC:175:PRO:HB3	8:AC:390:ARG:NH1	2.32	0.44
9:AD:285:THR:HB	9:AD:287:PRO:HD2	1.99	0.44
9:AD:295:ASP:OD2	9:AD:297:LYS:HG2	2.17	0.44
9:AF:224:ASP:OD1	33:X4:212:THR:OG1	2.27	0.44
8:AI:101:ASN:HA	8:AI:144:GLY:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:204:VAL:HG11	8:AI:302:MET:HE2	2.00	0.44
8:AK:172:TYR:HB2	8:AK:203:MET:HB2	2.00	0.44
9:AL:67:ASP:O	9:AL:92:PHE:HA	2.17	0.44
11:B0:17:TRP:HA	11:B0:20:ASN:HD21	1.82	0.44
11:B1:268:ARG:NE	11:B1:272:MET:HE2	2.32	0.44
11:B3:369:HIS:HD2	11:B3:372:ARG:NE	2.13	0.44
11:B4:180:MET:HA	11:B4:183:LEU:HD12	1.99	0.44
11:B5:258:ARG:O	11:B5:262:GLU:HG2	2.17	0.44
11:B5:272:MET:HE3	11:B5:384:LEU:HD13	1.98	0.44
8:BC:7:ILE:O	8:BC:9:VAL:HG23	2.18	0.44
8:BC:103:TYR:HB3	8:BC:408:TYR:HE2	1.81	0.44
8:BC:116:ASP:OD1	8:BC:117:LEU:N	2.50	0.44
9:BF:216:LYS:NZ	25:U:144:PRO:HG3	2.32	0.44
9:BF:268:PRO:HA	9:BF:368:ILE:HD13	2.00	0.44
8:BG:11:GLN:O	8:BG:15:GLN:HG3	2.18	0.44
8:BI:10:GLY:O	8:BI:14:VAL:HG22	2.17	0.44
8:BM:114:ILE:O	8:BM:118:VAL:HG12	2.17	0.44
9:BP:178:THR:HB	9:BP:181:GLU:HB2	1.99	0.44
10:C:405:LYS:HE3	8:GI:58:ALA:C	2.42	0.44
12:C2:411:LEU:HD12	12:C2:411:LEU:HA	1.83	0.44
8:CC:276:ILE:HD12	8:CC:281:ALA:HA	2.00	0.44
9:CD:152:ILE:O	9:CD:156:ARG:HG2	2.18	0.44
8:CE:81:GLY:HA3	27:P4:21:TYR:HE2	1.82	0.44
8:CE:371:VAL:HG12	8:CE:373:ARG:H	1.82	0.44
8:CI:203:MET:HE3	8:CI:388:TRP:CZ2	2.53	0.44
8:CK:317:MET:HE2	8:CK:317:MET:HB2	1.89	0.44
9:CL:155:ILE:HD12	9:CL:158:GLU:HB3	1.99	0.44
8:CM:17:GLY:HA2	8:CM:20:CYS:SG	2.58	0.44
9:CN:213:ARG:NH2	9:CN:297:LYS:HD3	2.32	0.44
9:CP:337:ASN:HB3	9:CP:340:TYR:HD2	1.83	0.44
8:CQ:21:TRP:HA	8:CQ:24:TYR:HD1	1.82	0.44
8:CQ:208:ALA:O	8:CQ:212:ILE:HG12	2.17	0.44
13:D:373:VAL:HG22	8:KA:82:THR:HG23	1.99	0.44
9:DD:213:ARG:HH12	9:DD:297:LYS:HB3	1.82	0.44
8:DG:155:GLU:HG3	8:DG:197:HIS:CE1	2.52	0.44
8:DG:314:ALA:O	8:DG:380:ASN:N	2.47	0.44
8:DI:7:ILE:HG22	8:DI:122:ILE:HD11	1.99	0.44
15:E:93:LEU:HD11	15:E:114:VAL:HB	1.99	0.44
15:E:201:LEU:HD12	15:E:201:LEU:HA	1.65	0.44
8:EC:234:ILE:HD11	8:EC:272:TYR:HB2	1.99	0.44
8:EC:276:ILE:HD12	8:EC:276:ILE:HA	1.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EF:256:ASN:HD21	8:EG:181:VAL:H	1.64	0.44
8:EG:201:ALA:O	8:EG:268:PRO:HD2	2.17	0.44
8:EM:294:ALA:HA	8:EM:297:GLU:HG2	1.99	0.44
9:EN:226:ASN:O	9:EN:230:SER:OG	2.35	0.44
8:EO:238:ILE:HG13	8:EO:239:THR:HG23	2.00	0.44
8:EO:398:MET:N	8:EO:398:MET:HE2	2.32	0.44
15:F:12:MET:HE1	9:IP:1:MET:SD	2.57	0.44
8:FA:139:HIS:O	8:FA:170:ALA:HA	2.17	0.44
8:FA:294:ALA:O	8:FA:300:ASN:ND2	2.49	0.44
9:FB:198:GLU:HA	9:FB:264:HIS:HB2	1.99	0.44
9:FF:132:GLY:HA2	9:FF:162:ARG:HB3	1.98	0.44
8:FG:31:GLN:NE2	8:FG:35:GLN:HB2	2.32	0.44
8:FG:52:PHE:CZ	8:FG:239:THR:HG21	2.52	0.44
8:FG:269:LEU:HD22	8:FG:303:VAL:HG21	1.98	0.44
9:FL:14:ASN:HD21	9:FL:67:ASP:HB2	1.82	0.44
8:FO:33:ASP:HA	8:FO:85:GLN:HE21	1.82	0.44
8:FO:255:PHE:O	8:FO:259:LEU:HB2	2.18	0.44
9:GB:323:MET:HE2	8:GC:224:TYR:CD2	2.53	0.44
8:GC:153:LEU:HD12	8:GC:154:MET:HG2	1.98	0.44
8:GC:269:LEU:HD11	8:GC:303:VAL:HB	1.98	0.44
8:GE:118:VAL:O	8:GE:122:ILE:HG12	2.17	0.44
9:GH:367:PHE:CZ	9:GH:369:GLY:HA3	2.52	0.44
8:GI:348:PRO:HG2	9:GJ:384:GLN:HG3	1.97	0.44
8:GM:47:ASP:OD1	26:P2:111:LYS:N	2.51	0.44
8:GM:115:VAL:HG21	8:GM:152:LEU:HD22	1.99	0.44
8:GM:118:VAL:HG21	8:GM:149:PHE:HZ	1.83	0.44
8:GM:371:VAL:HG22	8:GM:373:ARG:H	1.81	0.44
17:H:249:LYS:HD3	17:H:249:LYS:H	1.83	0.44
8:HA:36:MET:HE3	8:HA:61:HIS:NE2	2.33	0.44
8:HA:254:GLU:HG2	9:HB:98:GLY:HA2	2.00	0.44
9:HB:221:THR:N	9:HB:224:ASP:OD2	2.50	0.44
9:HH:11:GLN:O	9:HH:15:GLN:HG2	2.17	0.44
9:HH:138:SER:HA	9:HH:169:VAL:H	1.83	0.44
18:I1:58:THR:OG1	18:I1:59:ASN:N	2.50	0.44
8:IA:348:PRO:HD2	9:IB:384:GLN:HE22	1.82	0.44
9:IB:306:ARG:HH22	36:Y0:54:ARG:N	2.15	0.44
8:IC:259:LEU:HD21	8:IC:316:CYS:HB2	2.00	0.44
8:IC:260:VAL:HG22	8:IC:266:HIS:HA	1.98	0.44
8:IC:315:CYS:O	8:IC:351:PHE:HA	2.16	0.44
8:IE:231:ILE:O	8:IE:235:VAL:HG23	2.18	0.44
9:IF:144:GLY:N	52:IF:502:GDP:O1B	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IG:139:HIS:O	8:IG:170:ALA:HA	2.18	0.44
8:IG:317:MET:HB3	8:IG:319:TYR:CE1	2.53	0.44
9:IJ:371:SER:O	9:IJ:422:TYR:OH	2.27	0.44
8:IK:377:MET:C	8:IK:378:LEU:HD23	2.42	0.44
8:IM:234:ILE:HD11	8:IM:272:TYR:HB2	1.99	0.44
8:IO:183:GLU:HA	8:IO:186:ASN:ND2	2.32	0.44
19:J2:63:ILE:HD11	9:NB:45:GLU:HA	1.99	0.44
19:J4:25:VAL:HA	19:J4:32:PRO:HG2	2.00	0.44
9:JB:344:TRP:CZ2	8:JC:400:ALA:HB3	2.51	0.44
8:JC:386:GLU:O	8:JC:390:ARG:HG2	2.18	0.44
8:JE:25:CYS:SG	8:JE:26:LEU:N	2.91	0.44
8:JE:52:PHE:CE2	8:JE:243:ARG:HD3	2.53	0.44
8:JG:119:LEU:HD12	8:JG:156:ARG:HH21	1.82	0.44
9:JH:51:TYR:HB3	9:JH:59:TYR:HB3	1.99	0.44
9:JH:73:MET:HE3	9:JH:92:PHE:HB3	2.00	0.44
8:JM:307:PRO:HB3	8:JM:312:TYR:HE1	1.81	0.44
9:JN:211:CYS:SG	9:JN:212:PHE:N	2.90	0.44
8:JO:174:ALA:HB3	8:JO:177:VAL:HG13	2.00	0.44
8:KC:150:ALA:O	8:KC:154:MET:HG3	2.18	0.44
9:KH:183:TYR:O	9:KH:187:LEU:HD13	2.16	0.44
9:KH:308:GLY:HA3	9:KH:373:ALA:HB2	1.99	0.44
8:KI:201:ALA:HB3	8:KI:267:PHE:HA	1.99	0.44
8:KK:251:ASP:OD1	8:KK:252:LEU:N	2.51	0.44
8:KM:168:GLU:OE2	8:KM:170:ALA:HB2	2.18	0.44
9:KN:242:PHE:HB2	9:KN:354:CYS:SG	2.57	0.44
9:KN:362:LYS:HB3	9:KN:362:LYS:HE3	1.76	0.44
8:KO:287:SER:O	8:KO:291:ILE:HG23	2.17	0.44
17:L:237:ARG:HE	17:L:237:ARG:HB3	1.62	0.44
9:LB:375:GLN:HG3	9:LB:379:LYS:HE3	1.99	0.44
8:LC:304:LYS:HD2	8:LC:304:LYS:HA	1.76	0.44
8:LI:191:THR:HA	8:LI:194:THR:HG22	2.00	0.44
8:LI:246:GLY:HA2	8:LI:357:TYR:CE2	2.51	0.44
9:LJ:308:GLY:HA2	44:h3:64:MET:HE3	1.98	0.44
9:LJ:346:PRO:HD2	8:LK:398:MET:HE3	1.98	0.44
8:LK:7:ILE:CG2	8:LK:153:LEU:HD21	2.48	0.44
8:LK:93:ILE:HD12	8:LK:118:VAL:HG22	1.98	0.44
8:LO:6:SER:HB3	8:LO:8:HIS:CD2	2.53	0.44
8:LO:183:GLU:HA	8:LO:186:ASN:HD22	1.83	0.44
17:M:288:PHE:CE2	17:M:290:PRO:HG3	2.52	0.44
8:MC:157:LEU:HD22	8:MC:166:LYS:HD3	2.00	0.44
8:MK:7:ILE:HD12	8:MK:137:ILE:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NA:215:ARG:NH1	8:NA:216:ASN:OD1	2.51	0.44
9:NH:72:THR:O	9:NH:75:SER:OG	2.31	0.44
9:NH:143:THR:OG1	52:NH:502:GDP:O1B	2.26	0.44
8:NI:1:MET:N	8:NI:1:MET:SD	2.88	0.44
8:NI:49:PHE:HB2	8:NI:53:PHE:HD2	1.82	0.44
8:NI:291:ILE:HD12	8:NI:375:VAL:HB	1.99	0.44
8:NO:35:GLN:HA	8:NO:60:LYS:HG2	1.98	0.44
9:NP:321:MET:N	9:NP:321:MET:SD	2.91	0.44
17:O9:183:ARG:HG2	17:O9:184:ASP:N	2.31	0.44
8:OA:66:VAL:HG22	8:OA:68:VAL:HG13	2.00	0.44
9:OB:178:THR:HB	9:OB:181:GLU:HB2	2.00	0.44
9:OD:31:ASP:OD1	9:OD:35:THR:N	2.50	0.44
8:OE:245:ASP:HA	8:OE:249:ASN:HD21	1.81	0.44
9:OF:87:PRO:HD3	9:PF:281:TYR:CD1	2.51	0.44
8:OG:311:LYS:HG3	8:OG:344:VAL:CG1	2.46	0.44
8:OI:114:ILE:HG22	8:OI:118:VAL:HG23	2.00	0.44
9:OJ:289:LEU:HD21	9:OJ:365:ALA:HB3	1.99	0.44
9:OJ:361:LEU:HD12	9:OJ:362:LYS:H	1.83	0.44
9:OL:68:LEU:HB3	9:OL:96:GLY:HA2	1.99	0.44
9:ON:147:MET:N	9:ON:147:MET:SD	2.90	0.44
9:ON:182:PRO:O	9:ON:186:THR:OG1	2.31	0.44
8:PC:338:LYS:HE2	8:PC:340:THR:HB	1.98	0.44
8:PG:108:TYR:HA	8:PG:112:LYS:HE3	1.99	0.44
9:PH:307:HIS:CE1	9:PH:373:ALA:HA	2.53	0.44
9:PH:344:TRP:HZ3	8:PI:403:ALA:HB2	1.82	0.44
8:PK:25:CYS:O	8:PK:30:ILE:N	2.43	0.44
9:PL:321:MET:HE1	9:PL:326:VAL:HG23	2.00	0.44
9:PP:267:MET:HA	9:PP:267:MET:HE3	1.98	0.44
9:QD:326:VAL:O	9:QD:330:MET:HG2	2.17	0.44
8:QE:68:VAL:HG13	8:QE:93:ILE:HG23	1.98	0.44
9:QF:16:ILE:HD13	9:QF:229:VAL:HG11	1.98	0.44
8:QG:154:MET:HE3	8:QG:193:THR:HG22	2.00	0.44
9:QJ:253:LEU:HD12	9:QJ:257:MET:HG2	1.99	0.44
8:QK:385:ALA:HA	8:QK:388:TRP:HD1	1.83	0.44
9:QL:375:GLN:HA	9:QL:378:PHE:HD2	1.81	0.44
8:QM:102:ASN:HB3	8:QM:105:ARG:HB2	1.98	0.44
9:QN:324:LYS:HE3	8:QO:210:TYR:CE1	2.53	0.44
9:QP:230:SER:CA	9:QP:233:MET:HG2	2.47	0.44
9:QP:305:PRO:HA	9:QP:373:ALA:HB2	1.98	0.44
11:R1:26:THR:O	11:R1:30:ARG:HG2	2.17	0.44
11:R1:103:LEU:HD12	11:R1:103:LEU:HA	1.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R3:130:ARG:HD3	11:R4:11:ARG:HH21	1.81	0.44
11:R3:170:GLN:NE2	14:T2:143:ASP:O	2.50	0.44
11:R4:131:ASP:N	11:R4:131:ASP:OD1	2.48	0.44
8:RE:6:SER:HB2	8:RE:65:ALA:HA	1.98	0.44
8:RG:133:GLN:HB3	8:RG:252:LEU:HD23	1.99	0.44
9:RL:268:PRO:HG2	9:RL:300:MET:SD	2.58	0.44
8:RM:208:ALA:HB2	8:RM:304:LYS:HD3	1.99	0.44
9:RN:69:GLU:HG2	9:RN:71:GLY:H	1.82	0.44
9:RN:321:MET:HE1	9:RN:353:VAL:HG13	1.99	0.44
8:RO:8:HIS:ND1	8:RO:13:GLY:O	2.47	0.44
8:RO:398:MET:HA	8:RO:398:MET:HE3	2.00	0.44
12:S1:412:CYS:SG	12:S1:413:ARG:N	2.91	0.44
12:S4:179:ARG:NH2	12:S4:182:GLU:OE1	2.50	0.44
12:S4:300:TRP:O	12:S4:304:THR:HG23	2.17	0.44
12:S6:141:HIS:CE1	12:S7:419:ARG:CZ	3.01	0.44
12:S8:399:ARG:O	12:S8:403:ARG:HG2	2.18	0.44
8:SC:166:LYS:N	8:SC:199:ASP:OD2	2.45	0.44
9:SD:318:ARG:HE	9:SD:358:PRO:HB3	1.83	0.44
8:SE:262:TYR:OH	9:SF:391:ARG:O	2.30	0.44
9:SN:7:LEU:HD13	9:SN:135:LEU:HB2	1.99	0.44
14:T1:134:GLN:HE21	14:T1:279:ARG:HG2	1.82	0.44
14:T1:262:HIS:O	14:T1:266:LEU:HD12	2.17	0.44
14:T1:316:GLN:CD	30:U4:271:ARG:HE	2.25	0.44
14:T2:188:GLU:O	14:T2:192:ARG:HG3	2.16	0.44
14:T5:411:SER:HA	14:T5:414:LYS:HE2	1.99	0.44
8:TA:139:HIS:O	8:TA:170:ALA:HA	2.17	0.44
8:TA:251:ASP:OD1	8:TA:253:THR:N	2.50	0.44
9:TB:138:SER:HA	9:TB:169:VAL:HB	2.00	0.44
9:TB:237:THR:HG22	9:TB:250:LEU:HD21	2.00	0.44
8:TC:166:LYS:N	8:TC:199:ASP:OD2	2.41	0.44
9:TD:186:THR:HG23	9:TD:415:MET:HE1	2.00	0.44
8:TG:102:ASN:ND2	8:TG:105:ARG:HG3	2.33	0.44
8:TI:4:CYS:HB3	8:TI:136:LEU:HD11	1.99	0.44
8:TM:263:PRO:HG3	9:TN:396:HIS:CD2	2.53	0.44
30:U0:208:HIS:HD1	30:U1:89:ARG:HG2	1.82	0.44
30:U2:140:ARG:NH2	30:U2:141:ASN:HA	2.32	0.44
30:U4:282:GLY:HA2	30:U4:285:LYS:HG3	1.98	0.44
30:U8:101:LEU:HA	30:U8:104:ARG:HE	1.83	0.44
9:UB:362:LYS:HZ1	9:UB:363:MET:HG2	1.83	0.44
8:UC:80:THR:O	8:UC:84:ARG:NH1	2.51	0.44
8:UE:5:ILE:HB	8:UE:135:PHE:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:302:MET:N	8:UE:302:MET:SD	2.91	0.44
9:UF:199:THR:O	9:UF:266:PHE:N	2.46	0.44
9:UL:8:GLN:HE21	9:UL:14:ASN:HA	1.81	0.44
9:UL:237:THR:HG22	9:UL:250:LEU:HD21	1.99	0.44
9:UN:293:MET:CE	9:UN:367:PHE:HB2	2.46	0.44
25:V:355:TYR:HA	25:V:359:PHE:HB2	1.98	0.44
25:V:371:LYS:HD3	25:V:371:LYS:HA	1.78	0.44
25:V:465:LYS:HB2	25:V:465:LYS:HE2	1.81	0.44
30:V3:330:ASP:O	30:V3:334:LYS:HG2	2.18	0.44
30:V6:251:GLU:HA	30:V6:254:ILE:HG22	2.00	0.44
8:VA:62:VAL:HG21	8:WA:283:HIS:CD2	2.53	0.44
9:VD:87:PRO:HD3	9:WD:281:TYR:CE2	2.52	0.44
9:VF:323:MET:HG2	8:VG:224:TYR:CE1	2.52	0.44
8:VG:36:MET:HG3	8:VG:39:ASP:HB2	2.00	0.44
8:VG:372:GLN:NE2	8:VG:373:ARG:HG2	2.31	0.44
9:VL:279:GLN:OE1	9:VL:282:ARG:NH2	2.42	0.44
8:VM:62:VAL:HG13	8:WM:283:HIS:NE2	2.32	0.44
9:WB:5:VAL:HG22	9:WB:62:ARG:HD2	1.98	0.44
9:WF:188:SER:O	9:WF:192:LEU:HD22	2.17	0.44
9:WF:238:THR:HG21	9:WF:318:ARG:HD3	2.00	0.44
9:WF:324:LYS:HA	9:WF:327:ASP:OD2	2.17	0.44
9:WL:183:TYR:OH	9:WL:393:ALA:O	2.35	0.44
8:WM:183:GLU:HG3	8:WM:184:PRO:HD3	1.98	0.44
34:X8:113:ARG:HB3	34:X8:266:TRP:CZ2	2.52	0.44
35:XA:29:VAL:HG22	35:XA:57:THR:HG23	2.00	0.44
31:Y:469:ILE:HD12	31:Y:469:ILE:HA	1.80	0.44
36:Y1:169:LEU:HD23	36:Y1:171:SER:H	1.83	0.44
36:Y4:188:THR:OG1	36:Y4:189:GLU:N	2.43	0.44
39:a:154:MET:SD	39:a:155:THR:N	2.91	0.44
39:a:202:LYS:HZ2	39:b:530:LEU:HB2	1.82	0.44
40:a4:92:GLU:HA	40:a4:94:LYS:HE2	1.98	0.44
41:b2:402:GLN:HB3	44:h2:59:PRO:HD2	2.00	0.44
41:b4:415:LEU:HD21	41:b5:115:ARG:NH2	2.32	0.44
39:c:168:VAL:O	39:c:171:GLU:HG3	2.16	0.44
39:c:279:ARG:O	39:c:283:LYS:HG2	2.18	0.44
39:c:320:ASP:HA	39:c:323:GLN:HE21	1.82	0.44
42:e:402:ALA:N	42:e:407:ARG:O	2.49	0.44
42:f:583:GLY:HA3	42:f:614:TRP:CZ3	2.53	0.44
46:i2:1396:TYR:O	46:i2:1400:ILE:HG12	2.17	0.44
46:i3:1370:PHE:CD1	46:i3:1372:LEU:HD21	2.51	0.44
47:p:467:LYS:HD3	47:p:467:LYS:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:651:ARG:HG2	9:IF:56:GLY:HA3	2.00	0.44
4:5:169:ILE:O	4:5:173:THR:HG22	2.18	0.44
1:7:80:ARG:O	9:JD:276:ARG:NH2	2.33	0.44
7:A1:336:ARG:HG3	7:A2:59:VAL:HG22	2.00	0.44
7:A2:138:LYS:HD2	7:A2:138:LYS:HA	1.78	0.44
7:A3:372:LEU:HD12	7:A3:372:LEU:HA	1.85	0.44
7:A4:319:THR:O	7:A5:184:ILE:HD11	2.18	0.44
9:AB:113:VAL:HG11	9:AB:150:LEU:HD23	1.99	0.44
8:AC:36:MET:HE2	8:AC:61:HIS:NE2	2.33	0.44
9:AD:295:ASP:OD2	9:AD:297:LYS:N	2.36	0.44
8:AE:201:ALA:O	8:AE:268:PRO:HD2	2.18	0.44
8:AE:430:LYS:O	8:AE:434:GLU:HG2	2.18	0.44
9:AH:170:VAL:HG11	9:AH:377:LEU:HD13	1.98	0.44
9:AH:377:LEU:HA	9:AH:380:ARG:NE	2.32	0.44
8:AI:201:ALA:O	8:AI:268:PRO:HD2	2.17	0.44
8:AI:402:ARG:HH22	37:YD:229:LYS:HE3	1.83	0.44
9:AJ:243:PRO:HB3	8:AK:77:GLU:OE1	2.18	0.44
8:AO:212:ILE:HD11	8:AO:275:VAL:HG11	2.00	0.44
10:B:43:VAL:O	10:B:46:GLU:HG2	2.18	0.44
11:B1:202:LYS:HE2	11:B2:319:GLU:HB3	2.00	0.44
11:B2:323:TYR:CE2	14:D1:205:ARG:HD3	2.53	0.44
11:B4:64:LEU:HD23	11:B4:64:LEU:HA	1.82	0.44
11:B5:392:ASP:OD2	11:B5:408:VAL:HG23	2.18	0.44
9:BB:261:PRO:HG3	8:BC:406:HIS:CD2	2.53	0.44
8:BE:29:GLY:HA3	8:BE:42:ILE:HD13	2.00	0.44
8:BE:53:PHE:C	8:BE:64:ARG:HE	2.26	0.44
9:BH:77:ARG:HD3	9:BH:90:PHE:CZ	2.52	0.44
8:BI:279:GLU:HA	17:K:237:ARG:HH21	1.81	0.44
8:BK:220:GLU:H	8:BK:220:GLU:CD	2.25	0.44
10:C:327:GLU:O	10:C:331:ILE:HG12	2.17	0.44
10:C:342:LEU:HD23	10:C:346:ARG:HD3	1.99	0.44
10:C:465:LYS:HD3	10:C:485:TYR:OH	2.18	0.44
12:C2:88:THR:HA	17:P8:184:ASP:HA	1.99	0.44
12:C3:121:ARG:HG2	12:C4:375:ILE:HD13	1.99	0.44
12:C4:135:ILE:HD11	12:C5:430:THR:HG21	1.99	0.44
12:C5:412:CYS:HA	12:C5:413:ARG:NH2	2.32	0.44
8:CC:147:SER:O	8:CC:151:SER:OG	2.29	0.44
8:CE:1:MET:SD	8:CE:2:ARG:N	2.91	0.44
8:CG:322:ASP:OD2	8:CG:373:ARG:NH2	2.50	0.44
9:CH:319:GLY:HA2	9:CH:357:PRO:HD3	1.98	0.44
9:CN:8:GLN:HE21	9:CN:14:ASN:HA	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CO:201:ALA:O	8:CO:268:PRO:HD2	2.17	0.44
8:CQ:23:LEU:HD12	8:CQ:26:LEU:HD11	2.00	0.44
14:D0:84:LEU:O	14:D0:88:THR:HG23	2.17	0.44
14:D3:25:LYS:HB3	14:D3:25:LYS:HE3	1.75	0.44
14:D3:106:ARG:HG3	14:D3:110:MET:HE1	1.98	0.44
8:DC:11:GLN:O	8:DC:15:GLN:HG2	2.17	0.44
9:DD:10:GLY:O	9:DD:14:ASN:ND2	2.50	0.44
9:DJ:173:PRO:HG3	9:DJ:380:ARG:HD2	1.98	0.44
8:EA:40:LYS:HB3	8:EA:43:GLY:HA3	1.98	0.44
8:EA:234:ILE:HD11	8:EA:272:TYR:HB2	1.99	0.44
8:EI:234:ILE:HD11	8:EI:272:TYR:HB2	2.00	0.44
8:FA:326:LYS:HZ2	9:FB:212:PHE:HZ	1.65	0.44
9:FB:167:PHE:CD2	9:FB:233:MET:HE1	2.52	0.44
8:FC:52:PHE:CE2	8:FC:243:ARG:HD3	2.52	0.44
8:FG:298:PRO:HA	8:FG:301:GLN:HG2	2.00	0.44
8:FK:116:ASP:O	36:Y2:108:PRO:HB3	2.17	0.44
8:GC:259:LEU:HD12	8:GC:259:LEU:HA	1.82	0.44
8:GC:353:VAL:HG22	9:GD:177:ASP:HB2	2.00	0.44
8:GE:57:GLY:H	8:HE:285:GLN:HA	1.82	0.44
8:GI:288:VAL:O	8:GI:292:THR:OG1	2.30	0.44
9:GJ:21:TRP:HZ3	9:GJ:51:TYR:CE2	2.36	0.44
9:GL:229:VAL:O	9:GL:233:MET:HG2	2.18	0.44
8:GM:147:SER:OG	8:GM:190:THR:OG1	2.22	0.44
8:GM:280:LYS:HE2	8:GM:280:LYS:HB2	1.84	0.44
9:GN:136:THR:HG22	9:GN:167:PHE:HB2	1.98	0.44
8:GO:53:PHE:HB3	8:GO:61:HIS:HB3	1.99	0.44
8:HA:111:GLY:O	8:HA:115:VAL:HG23	2.17	0.44
9:HB:77:ARG:HA	9:HB:77:ARG:HD2	1.63	0.44
8:HC:28:HIS:CD2	8:HC:49:PHE:HB3	2.53	0.44
9:HH:203:ASP:OD2	9:HH:206:ALA:N	2.42	0.44
8:HI:192:HIS:NE2	8:HI:424:ASP:OD2	2.51	0.44
8:HI:239:THR:OG1	8:HI:243:ARG:NH1	2.51	0.44
9:HJ:205:GLU:HA	9:HJ:208:TYR:HD2	1.82	0.44
8:HK:115:VAL:O	8:HK:119:LEU:HD12	2.17	0.44
9:HL:232:THR:HG21	9:HL:268:PRO:HB2	1.99	0.44
9:HN:257:MET:HE1	9:HN:314:ALA:HB2	1.99	0.44
8:IA:101:ASN:HD21	8:IA:180:ALA:HB1	1.82	0.44
9:IB:237:THR:HG22	9:IB:250:LEU:HD21	1.99	0.44
9:IF:396:HIS:CD2	9:IF:397:TRP:HD1	2.36	0.44
8:IG:7:ILE:O	8:IG:9:VAL:HG23	2.17	0.44
9:IH:291:GLN:OE1	36:Y1:164:LYS:NZ	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:II:212:ILE:C	8:II:214:ARG:H	2.26	0.44
9:IL:211:CYS:HB3	9:IL:220:PRO:HG3	1.98	0.44
19:J2:54:ARG:HH12	9:NB:40:SER:C	2.26	0.44
19:J2:149:ILE:HG12	19:J2:152:GLN:HB2	1.99	0.44
19:J5:36:LEU:HD12	19:J5:40:ASP:OD2	2.18	0.44
9:JF:102:ALA:HB2	9:JF:398:TYR:HD1	1.83	0.44
9:JH:139:LEU:HD13	9:JH:168:SER:HB2	1.99	0.44
8:JI:182:VAL:HG22	8:JI:185:TYR:HB2	2.00	0.44
8:JI:317:MET:HB2	8:JI:317:MET:HE2	1.53	0.44
9:JJ:1:MET:N	9:JJ:128:ASP:OD1	2.51	0.44
9:JJ:147:MET:HE3	9:JJ:147:MET:HB2	1.77	0.44
8:JK:53:PHE:HB3	8:JK:61:HIS:HB3	1.99	0.44
9:JN:187:LEU:HD11	9:JN:408:PHE:CE1	2.51	0.44
8:JO:157:LEU:HD23	8:JO:157:LEU:HA	1.86	0.44
9:JP:55:THR:HG23	9:KN:283:ALA:HA	2.00	0.44
8:JQ:395:PHE:CD2	8:JQ:422:ARG:HD3	2.51	0.44
13:K3:374:GLU:CD	13:K3:374:GLU:H	2.26	0.44
9:KB:26:ASP:O	9:KB:359:ARG:NH1	2.50	0.44
9:KB:231:ALA:HB1	9:KB:270:PHE:CE1	2.53	0.44
9:KF:241:ARG:HE	9:KF:241:ARG:HB2	1.64	0.44
8:KK:346:TRP:CD1	9:KL:391:ARG:HD3	2.53	0.44
8:KM:2:ARG:HB2	8:KM:242:LEU:HD21	1.99	0.44
8:KM:3:GLU:HA	8:KM:51:THR:HA	2.00	0.44
8:KM:185:TYR:O	8:KM:189:LEU:HD12	2.18	0.44
8:LA:166:LYS:N	8:LA:199:ASP:OD2	2.45	0.44
8:LC:271:THR:HA	8:LC:302:MET:SD	2.57	0.44
9:LF:45:GLU:OE2	9:LF:46:ARG:NH2	2.50	0.44
9:LF:392:LYS:NZ	43:i:93:ASP:OD2	2.37	0.44
9:LN:227:HIS:CD2	29:S:138:MET:HE1	2.52	0.44
9:MB:28:HIS:HA	9:MB:43:GLN:OE1	2.18	0.44
9:MH:248:ALA:HA	9:MH:252:LYS:HE2	2.00	0.44
8:MI:111:GLY:O	8:MI:115:VAL:HG23	2.18	0.44
9:ML:276:ARG:HD3	23:P:81:GLU:OE1	2.17	0.44
8:MO:66:VAL:HG21	8:MO:122:ILE:HD13	1.99	0.44
8:NC:280:LYS:HA	8:NC:280:LYS:HD2	1.79	0.44
9:NF:132:GLY:HA2	9:NF:162:ARG:HB3	1.99	0.44
9:NH:262:ARG:NH2	9:NH:417:ASP:OD2	2.50	0.44
9:NP:377:LEU:HB2	9:NP:380:ARG:HH21	1.83	0.44
23:O:21:ASN:HA	23:O:24:LYS:HG2	1.99	0.44
25:O5:346:ASP:OD1	25:O5:352:ARG:NH2	2.50	0.44
9:OB:196:THR:HG21	9:OB:199:THR:OG1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OB:200:TYR:OH	9:OB:368:ILE:HD13	2.17	0.44
9:OB:269:GLY:N	9:OB:367:PHE:O	2.51	0.44
9:OH:247:ASN:ND2	8:OI:74:VAL:HG22	2.33	0.44
9:OL:324:LYS:HE2	8:OM:222:PRO:C	2.42	0.44
8:OO:215:ARG:HH22	36:Y5:187:GLN:CD	2.26	0.44
27:P3:138:PRO:CD	27:P3:148:LYS:HZ3	2.18	0.44
9:PD:86:ARG:NE	9:PD:88:ASP:OD2	2.51	0.44
9:PD:207:LEU:HB3	9:PD:225:LEU:HG	1.98	0.44
9:PF:237:THR:HG22	9:PF:250:LEU:HD21	1.99	0.44
9:PH:47:ILE:HG12	9:PH:51:TYR:HB2	2.00	0.44
9:PH:305:PRO:HA	9:PH:373:ALA:HB2	2.00	0.44
8:PI:291:ILE:HD13	8:PI:373:ARG:HD3	2.00	0.44
9:PJ:87:PRO:HA	9:PJ:90:PHE:HD1	1.82	0.44
9:PJ:263:LEU:HD22	9:PJ:422:TYR:CD2	2.53	0.44
9:PL:371:SER:OG	9:PL:372:THR:N	2.51	0.44
8:PM:11:GLN:HG3	8:PM:74:VAL:HG11	1.99	0.44
9:PP:142:GLY:N	52:PP:502:GDP:O3B	2.41	0.44
9:QD:156:ARG:HD3	9:QD:164:MET:SD	2.57	0.44
9:QF:150:LEU:O	9:QF:154:LYS:HG2	2.17	0.44
8:QG:260:VAL:HB	9:QH:397:TRP:HZ2	1.83	0.44
9:QL:257:MET:HB3	9:QL:266:PHE:CZ	2.53	0.44
8:QO:63:PRO:O	8:QO:91:GLN:NE2	2.43	0.44
9:RF:28:HIS:CG	9:RF:47:ILE:HG13	2.52	0.44
9:RN:267:MET:HG2	9:RN:299:MET:HE2	1.98	0.44
8:RO:425:LEU:HD12	8:RO:425:LEU:HA	1.84	0.44
12:S0:142:SER:HA	12:S1:419:ARG:NH2	2.33	0.44
12:S4:352:ALA:O	12:S4:355:VAL:HG12	2.17	0.44
12:S6:270:LYS:HD3	12:S6:270:LYS:O	2.17	0.44
12:S8:382:ILE:HG21	12:S8:438:LEU:HB2	2.00	0.44
12:S9:452:LYS:HZ2	12:S9:453:ALA:HA	1.82	0.44
8:SA:290:GLU:HA	8:SA:293:ASN:HD21	1.82	0.44
8:SA:319:TYR:OH	8:SA:328:VAL:HG13	2.17	0.44
9:SB:68:LEU:HB3	9:SB:96:GLY:HA2	2.00	0.44
9:SD:173:PRO:HG3	9:SD:380:ARG:HH11	1.82	0.44
9:SF:317:PHE:HA	9:SF:365:ALA:HA	1.98	0.44
8:SG:2:ARG:HD2	8:SG:242:LEU:HB3	1.98	0.44
9:SH:224:ASP:O	9:SH:228:LEU:HD22	2.18	0.44
9:SH:257:MET:HB3	9:SH:266:PHE:CZ	2.53	0.44
9:SH:423:GLN:NE2	9:SH:423:GLN:O	2.51	0.44
8:SI:111:GLY:O	8:SI:115:VAL:HG23	2.17	0.44
9:SJ:210:ILE:O	9:SJ:214:THR:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SK:317:MET:HE1	8:SK:375:VAL:HG13	1.99	0.44
8:SM:132:LEU:O	8:SM:164:LYS:NZ	2.45	0.44
8:SM:150:ALA:O	8:SM:153:LEU:HD12	2.18	0.44
9:SN:379:LYS:HZ2	9:SN:419:VAL:HB	1.83	0.44
14:T1:188:GLU:HA	14:T1:191:LYS:HD2	2.00	0.44
14:T1:359:GLN:HA	14:T1:362:HIS:HB2	1.99	0.44
14:T4:238:VAL:HG22	14:T5:351:ARG:HG2	1.98	0.44
8:TC:83:TYR:HB3	8:TC:86:LEU:HD23	1.99	0.44
8:TC:372:GLN:OE1	47:o:155:LEU:HD22	2.18	0.44
9:TF:72:THR:O	9:TF:76:VAL:HG23	2.18	0.44
9:TF:285:THR:HB	9:TF:287:PRO:HD2	2.00	0.44
8:TG:310:GLY:O	8:TG:342:GLN:NE2	2.50	0.44
9:TJ:202:ILE:HD11	9:TJ:207:LEU:HD11	1.99	0.44
9:TJ:392:LYS:HB3	9:TJ:395:LEU:HD22	1.99	0.44
8:TK:2:ARG:HB3	8:TK:242:LEU:HD23	1.99	0.44
9:TL:1:MET:SD	9:TL:2:ARG:N	2.87	0.44
9:TL:63:ALA:HB3	9:TL:85:PHE:CE2	2.52	0.44
8:TM:361:THR:OG1	8:TM:362:VAL:N	2.50	0.44
9:TN:362:LYS:HG2	9:TN:363:MET:SD	2.57	0.44
25:U:244:ARG:HD3	25:U:246:TYR:CE1	2.53	0.44
30:U1:474:LYS:HB2	30:U1:474:LYS:HE3	1.78	0.44
30:U7:267:CYS:HA	30:U7:270:LEU:HD12	1.98	0.44
30:U8:385:LYS:HB3	30:U8:385:LYS:HE2	1.74	0.44
8:UC:229:ARG:CZ	8:UC:366:GLY:HA2	2.48	0.44
9:UH:317:PHE:HB3	9:UH:321:MET:HE1	1.98	0.44
30:V2:226:GLN:HA	30:V2:229:MET:SD	2.57	0.44
30:V4:110:ARG:HB3	30:V4:110:ARG:CZ	2.47	0.44
30:V4:171:ASP:OD1	30:V4:175:ARG:NH2	2.50	0.44
30:V7:240:ILE:O	30:V7:244:ARG:HG3	2.17	0.44
30:V7:446:MET:O	30:V7:450:ARG:HG3	2.17	0.44
30:V8:224:CYS:O	30:V8:228:GLN:HG2	2.17	0.44
9:VB:267:MET:SD	9:VB:299:MET:HB3	2.57	0.44
8:VE:4:CYS:SG	8:VE:136:LEU:HD22	2.58	0.44
9:VF:58:LYS:NZ	9:VF:59:TYR:O	2.50	0.44
9:VH:213:ARG:NE	9:VH:297:LYS:HG2	2.32	0.44
8:VI:132:LEU:O	8:VI:164:LYS:NZ	2.42	0.44
8:VI:298:PRO:HB3	8:VI:307:PRO:HD2	1.99	0.44
9:VL:296:ALA:HA	9:VL:299:MET:HE3	2.00	0.44
31:W:94:GLN:OE1	31:W:94:GLN:N	2.42	0.44
31:W:350:LYS:HZ3	40:a1:56:LEU:HD22	1.82	0.44
30:W7:153:LYS:HG2	30:W7:257:LYS:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WA:154:MET:HE1	8:WA:168:GLU:OE2	2.17	0.44
8:WA:209:ILE:HD13	8:WA:227:LEU:HA	2.00	0.44
8:WA:352:LYS:NZ	9:WB:179:VAL:HG13	2.33	0.44
9:WD:73:MET:HE3	9:WD:92:PHE:HB3	1.99	0.44
9:WH:322:SER:H	8:WI:221:ARG:CZ	2.31	0.44
9:WJ:252:LYS:HA	8:WK:100:ALA:HB1	2.00	0.44
9:WJ:313:VAL:O	9:WJ:349:VAL:HA	2.17	0.44
9:WL:258:VAL:HB	8:WM:407:TRP:HZ2	1.83	0.44
8:WM:53:PHE:HB3	8:WM:61:HIS:HB3	2.00	0.44
9:WN:362:LYS:HG3	9:WN:363:MET:CG	2.48	0.44
9:WP:262:ARG:HA	9:WP:262:ARG:CZ	2.48	0.44
31:X:492:GLU:OE2	31:X:492:GLU:N	2.49	0.44
31:X:667:LEU:HD11	31:X:674:LEU:HD21	1.99	0.44
34:X6:164:TYR:CD1	34:X6:165:PRO:HD3	2.52	0.44
34:X8:24:SER:C	34:X8:25:LYS:HD3	2.42	0.44
35:XB:170:ARG:HB3	35:XB:172:TYR:CE1	2.53	0.44
36:Y5:230:LYS:O	36:Y5:230:LYS:NZ	2.39	0.44
37:YA:122:GLY:HA3	37:YA:126:ILE:HD11	1.99	0.44
37:YC:179:PRO:HD3	37:YC:231:MET:HE2	2.00	0.44
41:b3:151:LEU:HD12	41:b3:227:LEU:HB3	1.99	0.44
41:b4:427:LEU:O	41:b4:430:GLU:HG3	2.17	0.44
41:b5:361:ILE:HG23	41:b5:365:MET:HE1	1.99	0.44
39:c:168:VAL:HG12	39:c:172:ARG:HE	1.83	0.44
42:e:275:PHE:HB2	42:e:322:PHE:CZ	2.52	0.44
42:e:384:ARG:NH1	42:e:425:THR:O	2.48	0.44
42:f:373:PRO:CD	48:r:135:LYS:HE3	2.44	0.44
44:h1:45:PHE:HB3	44:h1:93:SER:HB2	1.99	0.44
44:h2:128:GLN:O	44:h2:132:ILE:HG13	2.18	0.44
43:i:214:LEU:HD11	43:i:227:LYS:HZ2	1.82	0.44
43:k:225:ILE:HG22	43:k:229:LYS:NZ	2.32	0.44
49:y:162:ARG:O	49:y:162:ARG:NE	2.51	0.44
1:0:81:PHE:O	9:JP:276:ARG:NH1	2.50	0.44
4:6:129:ILE:HG21	4:6:273:LEU:HD23	2.00	0.44
7:A3:105:TYR:HE1	7:A3:400:ARG:NH1	2.15	0.44
8:AA:353:VAL:H	9:AB:177:ASP:HB2	1.82	0.44
9:AB:69:GLU:HG2	9:AB:71:GLY:H	1.81	0.44
8:AE:430:LYS:HD2	8:AE:430:LYS:HA	1.84	0.44
9:AJ:426:GLN:CD	37:YE:43:ALA:HB2	2.43	0.44
8:AM:285:GLN:HB2	8:MM:56:THR:HA	2.00	0.44
9:AP:1:MET:N	9:AP:128:ASP:OD1	2.43	0.44
9:AP:379:LYS:O	9:AP:383:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BB:19:LYS:HG3	9:BB:226:ASN:HB2	2.00	0.44
9:BB:282:ARG:NH1	9:BB:292:GLN:OE1	2.44	0.44
9:BF:21:TRP:CE3	9:BF:24:ILE:HD11	2.52	0.44
9:BH:221:THR:HG21	31:X:205:GLU:HG2	2.00	0.44
8:BI:31:GLN:HB3	8:BI:32:PRO:HD3	1.99	0.44
9:BJ:257:MET:HE3	9:BJ:257:MET:HB3	1.91	0.44
9:BJ:324:LYS:HE2	9:BJ:324:LYS:HB3	1.83	0.44
8:BK:191:THR:HG21	8:BK:425:LEU:HG	2.00	0.44
8:BO:5:ILE:HB	8:BO:135:PHE:CD2	2.53	0.44
10:C:213:LYS:HA	10:C:213:LYS:HD3	1.74	0.44
12:C3:166:GLU:OE1	12:C3:315:ARG:NH1	2.50	0.44
12:C3:386:ILE:HG23	12:C3:431:ILE:HD12	2.00	0.44
12:C4:184:GLY:O	12:C4:188:THR:HG23	2.18	0.44
8:CC:7:ILE:HG23	8:CC:7:ILE:HD12	1.55	0.44
9:CD:74:ASP:HA	31:W:275:MET:HE1	1.99	0.44
9:CD:345:ILE:HA	8:CE:398:MET:HE1	1.99	0.44
8:CE:262:TYR:OH	9:CF:391:ARG:O	2.36	0.44
8:CG:77:GLU:O	8:CG:81:GLY:N	2.51	0.44
8:CM:168:GLU:OE1	8:CM:170:ALA:HB2	2.17	0.44
8:CM:319:TYR:CG	8:CM:323:VAL:HG21	2.53	0.44
8:CM:329:ASN:HA	8:CM:332:ILE:HG22	1.99	0.44
9:CN:52:ASN:HB3	9:CN:60:VAL:HG23	2.00	0.44
9:CN:86:ARG:HG2	9:CN:88:ASP:H	1.82	0.44
8:CO:68:VAL:HG12	8:CO:93:ILE:HB	1.99	0.44
9:CP:375:GLN:O	9:CP:379:LYS:HG2	2.18	0.44
8:CQ:275:VAL:HG23	8:CQ:368:LEU:HD21	1.99	0.44
14:D3:134:GLN:HG3	14:D3:279:ARG:HG2	1.98	0.44
14:D4:93:GLN:O	14:D4:97:LEU:HG	2.17	0.44
14:D5:377:LEU:HA	14:D5:380:GLU:OE2	2.17	0.44
9:DB:146:GLY:O	9:DB:149:THR:OG1	2.34	0.44
9:DB:210:ILE:HD11	9:DB:298:ASN:HA	2.00	0.44
8:DC:182:VAL:HG13	8:DC:186:ASN:HD21	1.82	0.44
9:DF:198:GLU:HA	9:DF:264:HIS:HB2	2.00	0.44
9:DJ:83:GLN:O	9:EH:281:TYR:OH	2.29	0.44
9:DN:165:ASN:OD1	9:DN:165:ASN:N	2.50	0.44
8:DQ:280:LYS:HD2	8:DQ:280:LYS:HA	1.78	0.44
8:EA:270:ALA:HB3	8:EA:302:MET:HE1	2.00	0.44
8:EC:21:TRP:HA	8:EC:24:TYR:CD1	2.53	0.44
8:EE:215:ARG:NH2	8:EE:299:ALA:O	2.51	0.44
9:EH:2:ARG:HH22	8:EI:73:THR:CG2	2.31	0.44
8:EM:402:ARG:NE	8:EM:415:GLU:OE2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EN:362:LYS:O	9:EN:362:LYS:NZ	2.35	0.44
8:EO:34:GLY:HA3	8:EO:60:LYS:HZ3	1.83	0.44
8:EO:83:TYR:HB3	8:EO:86:LEU:HB3	1.99	0.44
8:FC:90:GLU:CD	8:GC:280:LYS:HZ3	2.24	0.44
8:FG:326:LYS:HG3	9:FH:212:PHE:CZ	2.53	0.44
8:FI:219:ILE:HD13	31:Y:629:LYS:NZ	2.33	0.44
9:FJ:12:CYS:SG	9:FJ:138:SER:HB3	2.58	0.44
9:FN:122:LYS:HG3	9:GN:291:GLN:HE22	1.82	0.44
8:FO:125:LEU:HD23	8:FO:125:LEU:HA	1.83	0.44
9:GB:328:GLU:O	9:GB:332:ASN:HB2	2.18	0.44
8:GE:1:MET:HG2	49:y:113:ASN:ND2	2.32	0.44
8:GE:385:ALA:HA	8:GE:388:TRP:CZ3	2.53	0.44
8:GG:137:ILE:HD12	8:GG:167:LEU:O	2.17	0.44
9:GH:225:LEU:HD12	9:GH:225:LEU:H	1.83	0.44
9:GJ:344:TRP:HZ3	8:GK:403:ALA:HB2	1.83	0.44
8:GK:91:GLN:HE22	8:GK:125:LEU:HD11	1.83	0.44
8:GK:111:GLY:O	8:GK:115:VAL:HG23	2.17	0.44
9:GL:174:LYS:HD2	9:GL:205:GLU:HG3	1.99	0.44
17:H:50:LYS:HE2	17:H:50:LYS:HB2	1.82	0.44
9:HB:372:THR:HA	9:HB:422:TYR:CE1	2.52	0.44
9:HD:117:LEU:O	9:HD:121:ARG:HB2	2.18	0.44
9:HD:407:GLU:OE1	9:HD:407:GLU:N	2.40	0.44
9:HD:411:ALA:O	9:HD:415:MET:HG3	2.18	0.44
8:HE:193:THR:O	8:HE:197:HIS:HB2	2.18	0.44
8:HE:205:ASP:OD1	8:HE:206:ASN:N	2.51	0.44
8:HG:98:ASP:OD1	8:HG:99:ALA:N	2.50	0.44
8:HG:329:ASN:HB3	9:HH:175:VAL:HG11	1.99	0.44
9:HH:105:HIS:CD2	9:HH:150:LEU:HB2	2.52	0.44
8:HI:168:GLU:O	8:HI:201:ALA:HA	2.18	0.44
8:HO:113:GLU:OE2	8:HO:113:GLU:N	2.34	0.44
8:HO:172:TYR:CZ	8:HO:391:LEU:HD21	2.53	0.44
8:IC:21:TRP:CZ2	8:IC:65:ALA:HB2	2.53	0.44
9:ID:385:PHE:CE2	9:ID:412:GLU:HB3	2.52	0.44
8:IG:133:GLN:HB3	8:IG:252:LEU:HD21	2.00	0.44
8:IG:327:ASP:N	8:IG:327:ASP:OD1	2.45	0.44
9:IH:105:HIS:CD2	9:IH:150:LEU:HB2	2.53	0.44
9:IH:290:THR:HG21	9:IH:329:GLN:HB3	1.99	0.44
8:II:108:TYR:HB2	8:II:411:GLU:OE2	2.16	0.44
9:IJ:221:THR:OG1	9:IJ:222:TYR:N	2.49	0.44
8:IK:229:ARG:O	8:IK:233:GLN:HG2	2.17	0.44
8:IM:121:ARG:HD2	8:IM:121:ARG:HA	1.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IO:304:LYS:HA	8:IO:304:LYS:HD2	1.88	0.44
8:IO:394:LYS:HD2	8:IO:398:MET:HE2	1.99	0.44
19:J1:172:ARG:NH1	8:NA:57:GLY:O	2.32	0.44
19:J2:54:ARG:HH21	9:NB:36:TYR:HE2	1.65	0.44
8:JC:6:SER:HB2	8:JC:8:HIS:CD2	2.53	0.44
8:JE:352:LYS:HG2	9:JF:179:VAL:HG23	1.99	0.44
8:JG:370:LYS:HE2	8:JG:370:LYS:H	1.81	0.44
9:JJ:241:ARG:HB2	9:JJ:242:PHE:CD2	2.53	0.44
9:JJ:267:MET:HG3	9:JJ:299:MET:HE2	2.00	0.44
9:JJ:322:SER:OG	8:JK:222:PRO:O	2.34	0.44
9:JL:63:ALA:O	9:JL:89:ASN:ND2	2.51	0.44
8:JO:56:THR:OG1	8:KM:284:GLU:O	2.34	0.44
13:K3:420:LYS:HE3	13:K3:420:LYS:HB3	1.66	0.44
8:KC:203:MET:HE1	8:KC:267:PHE:CD1	2.53	0.44
8:KG:16:ILE:HG21	8:KG:138:PHE:HD2	1.83	0.44
9:KJ:267:MET:HE1	9:KJ:303:CYS:O	2.18	0.44
9:KL:265:PHE:HB3	9:KL:374:ILE:HG21	1.99	0.44
8:KM:263:PRO:HG3	9:KN:396:HIS:CD2	2.53	0.44
8:KM:311:LYS:H	8:KM:382:THR:HG22	1.83	0.44
9:LJ:313:VAL:HG21	9:LJ:341:PHE:HE1	1.82	0.44
8:LM:6:SER:HB3	8:LM:8:HIS:CD2	2.53	0.44
9:LP:375:GLN:HB3	9:LP:422:TYR:CE2	2.53	0.44
9:MB:75:SER:HA	23:O:19:ARG:NH2	2.32	0.44
9:MB:130:LEU:HD23	9:MB:162:ARG:HD3	1.99	0.44
9:MD:221:THR:OG1	9:MD:222:TYR:N	2.50	0.44
9:MF:256:ASN:N	9:MF:256:ASN:OD1	2.50	0.44
8:MI:6:SER:HB3	8:MI:8:HIS:NE2	2.32	0.44
8:MM:115:VAL:HG21	8:MM:152:LEU:HD22	1.99	0.44
8:MO:28:HIS:NE2	8:MO:243:ARG:HD2	2.33	0.44
8:MO:390:ARG:NH2	43:k:140:GLY:HA2	2.33	0.44
15:N2:179:SER:HB2	15:N2:181:LEU:HD13	1.98	0.44
8:NA:56:THR:HB	8:OA:285:GLN:HB2	1.98	0.44
9:NB:287:PRO:O	9:NB:291:GLN:HG2	2.18	0.44
8:NE:71:GLU:N	8:NE:71:GLU:OE1	2.51	0.44
9:NF:347:ASN:ND2	8:NG:178:SER:HB2	2.33	0.44
8:NG:63:PRO:HG2	8:NG:87:PHE:CE1	2.53	0.44
8:NI:258:ASN:O	8:NI:316:CYS:SG	2.76	0.44
9:NJ:150:LEU:O	9:NJ:154:LYS:HG2	2.17	0.44
9:NJ:191:GLN:NE2	9:NJ:194:GLU:OE2	2.50	0.44
9:NL:12:CYS:SG	9:NL:138:SER:HB2	2.57	0.44
9:NN:344:TRP:CD1	9:NN:345:ILE:HG12	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NO:65:ALA:HB3	8:NO:87:PHE:CE2	2.53	0.44
9:NP:377:LEU:HA	9:NP:380:ARG:NE	2.29	0.44
24:O3:65:ILE:HD13	24:O3:65:ILE:HA	1.90	0.44
8:OA:367:ASP:OD1	8:OA:367:ASP:N	2.51	0.44
9:OD:323:MET:HE3	9:OD:324:LYS:HD2	1.99	0.44
9:OF:299:MET:HE2	9:OF:299:MET:HB3	1.87	0.44
8:OG:168:GLU:O	8:OG:202:PHE:N	2.51	0.44
9:OH:275:SER:O	9:OH:279:GLN:NE2	2.50	0.44
8:OI:154:MET:HE3	8:OI:158:SER:HB2	2.00	0.44
9:OJ:36:TYR:CE2	9:OJ:44:LEU:HB3	2.52	0.44
9:OJ:117:LEU:HD11	9:OJ:154:LYS:HD3	1.99	0.44
8:OK:313:MET:HG3	8:OK:344:VAL:HG11	1.98	0.44
9:OL:146:GLY:O	9:OL:149:THR:OG1	2.35	0.44
9:ON:404:ASP:N	9:ON:404:ASP:OD1	2.45	0.44
8:OO:28:HIS:CE1	8:OO:243:ARG:HD2	2.52	0.44
8:OO:268:PRO:HG3	8:OO:380:ASN:HD21	1.82	0.44
9:OP:210:ILE:CD1	9:OP:273:LEU:HD13	2.46	0.44
9:OP:237:THR:OG1	9:OP:241:ARG:NH1	2.51	0.44
23:P:227:LEU:HA	23:P:227:LEU:HD12	1.85	0.44
26:P1:44:GLY:O	26:P1:48:VAL:HG13	2.18	0.44
27:P7:38:PRO:HA	27:P7:41:GLN:OE1	2.18	0.44
17:P8:61:LYS:HE3	17:P8:62:PRO:HD2	1.99	0.44
8:PC:21:TRP:CE3	8:PC:24:TYR:HD1	2.36	0.44
8:PC:332:ILE:HG23	8:PC:351:PHE:CE2	2.53	0.44
8:PC:350:GLY:HA2	9:PD:179:VAL:HG13	1.99	0.44
9:PD:1:MET:HE1	8:PE:96:LYS:HA	2.00	0.44
9:PF:34:GLY:HA3	9:PF:58:LYS:HE2	2.00	0.44
9:PF:309:ARG:HE	9:PF:340:TYR:HA	1.82	0.44
8:PI:5:ILE:HB	8:PI:135:PHE:CE2	2.53	0.44
8:PI:15:GLN:HB3	8:PI:228:ASN:ND2	2.32	0.44
9:PJ:328:GLU:HA	9:PJ:331:LEU:HG	2.00	0.44
9:PL:252:LYS:HA	8:PM:100:ALA:HB1	2.00	0.44
9:PL:299:MET:H	9:PL:299:MET:HG2	1.63	0.44
8:PO:152:LEU:O	8:PO:156:ARG:HG2	2.18	0.44
8:PO:203:MET:HE1	8:PO:303:VAL:HG13	1.99	0.44
8:PO:219:ILE:HD11	8:PO:367:ASP:HB3	1.99	0.44
8:QC:388:TRP:HB3	8:QC:425:LEU:HD21	1.98	0.44
8:QC:414:GLU:OE2	8:QC:417:GLU:N	2.51	0.44
8:QE:70:LEU:HB3	8:QE:98:ASP:HA	1.99	0.44
9:QH:31:ASP:OD1	9:QH:35:THR:N	2.50	0.44
8:QI:19:ALA:HB1	8:QI:229:ARG:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QI:56:THR:HG22	8:RI:285:GLN:HB2	1.99	0.44
9:QN:50:TYR:CE1	9:QN:241:ARG:HD3	2.53	0.44
9:QP:16:ILE:HD11	9:QP:136:THR:HB	1.99	0.44
9:QP:137:HIS:NE2	9:QP:139:LEU:HD23	2.33	0.44
11:R1:153:GLU:O	11:R1:157:GLN:N	2.38	0.44
11:R3:49:THR:O	11:R3:53:ILE:HG12	2.17	0.44
8:RC:83:TYR:HB3	8:RC:86:LEU:HB3	2.00	0.44
8:RE:108:TYR:HA	8:RE:112:LYS:HE3	1.98	0.44
9:RH:12:CYS:O	9:RH:16:ILE:HG12	2.17	0.44
9:RH:372:THR:HA	9:RH:422:TYR:CE1	2.52	0.44
8:RI:53:PHE:O	8:RI:64:ARG:NH1	2.50	0.44
8:RI:328:VAL:HG11	8:RI:353:VAL:HG11	1.99	0.44
8:RK:3:GLU:H	8:RK:133:GLN:HG2	1.83	0.44
8:RK:174:ALA:HA	8:RK:205:ASP:HB2	1.99	0.44
9:RL:274:THR:HB	9:RL:278:SER:HB2	1.99	0.44
9:RL:342:VAL:HB	9:RL:344:TRP:CD1	2.52	0.44
9:RN:274:THR:HB	9:RN:278:SER:HB2	2.00	0.44
29:S:95:ASN:HD22	29:S:95:ASN:HA	1.61	0.44
12:S3:485:ARG:HB3	12:S3:485:ARG:NH1	2.32	0.44
12:S7:437:ARG:HD3	12:S7:437:ARG:HA	1.77	0.44
12:S8:452:LYS:HE2	12:S8:452:LYS:HB3	1.73	0.44
8:SA:115:VAL:HG13	8:SA:156:ARG:CZ	2.48	0.44
9:SB:15:GLN:NE2	52:SB:502:GDP:N7	2.65	0.44
9:SB:224:ASP:O	9:SB:228:LEU:HD22	2.18	0.44
9:SJ:324:LYS:HE2	8:SK:210:TYR:HB3	1.99	0.44
8:SK:185:TYR:CD1	8:SK:398:MET:HE3	2.53	0.44
8:SK:349:THR:O	9:SL:179:VAL:HG12	2.18	0.44
9:SL:54:ALA:HB3	9:SL:58:LYS:HB2	1.99	0.44
9:SN:281:TYR:O	9:SN:282:ARG:NE	2.48	0.44
8:TA:280:LYS:HB3	8:TA:280:LYS:HE2	1.77	0.44
9:TB:73:MET:HE2	9:TB:90:PHE:CD2	2.50	0.44
9:TB:323:MET:HA	9:TB:326:VAL:HB	1.99	0.44
9:TD:313:VAL:HG12	9:TD:349:VAL:HG13	1.99	0.44
9:TF:304:ASP:HB3	9:TF:307:HIS:CD2	2.52	0.44
8:TI:325:PRO:HA	8:TI:328:VAL:HB	1.98	0.44
9:TN:28:HIS:CG	9:TN:47:ILE:HG13	2.53	0.44
25:U:320:VAL:HG21	25:U:323:TRP:CZ2	2.51	0.44
25:U:326:ALA:HA	25:U:329:PHE:HD2	1.81	0.44
30:U1:142:LEU:CD2	30:U1:268:PHE:HB2	2.48	0.44
30:U1:188:LEU:HD13	30:U1:222:LEU:HB2	2.00	0.44
30:U3:449:SER:C	30:U9:401:ARG:HH22	2.23	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U9:218:GLU:HG3	30:U9:339:THR:HG21	1.99	0.44
8:UC:338:LYS:HE2	8:UC:340:THR:HB	1.99	0.44
9:UD:248:ALA:HA	9:UD:252:LYS:HG3	2.00	0.44
8:UI:105:ARG:HH21	8:UI:110:ILE:HD11	1.82	0.44
8:UM:152:LEU:O	8:UM:156:ARG:HG2	2.17	0.44
30:V1:335:GLN:O	30:V1:339:THR:OG1	2.30	0.44
30:V1:399:ARG:HH22	30:V2:142:LEU:HD22	1.83	0.44
30:V2:188:LEU:HD22	30:V2:223:LYS:HE3	2.00	0.44
9:VD:296:ALA:HA	9:VD:299:MET:HE3	1.99	0.44
8:VG:136:LEU:HG	8:VG:138:PHE:CE1	2.52	0.44
8:VG:214:ARG:NH1	8:VG:220:GLU:OE1	2.51	0.44
8:VI:402:ARG:NH1	8:VI:415:GLU:OE2	2.45	0.44
9:VL:290:THR:HA	9:VL:293:MET:HE1	1.99	0.44
8:VO:28:HIS:CE1	8:VO:243:ARG:HD2	2.53	0.44
8:VO:172:TYR:CD2	8:VO:205:ASP:HB3	2.53	0.44
31:W:107:TYR:OH	31:W:114:GLN:OE1	2.28	0.44
31:W:448:VAL:HG22	31:W:449:ASP:H	1.82	0.44
31:W:518:TYR:HB3	31:W:520:PHE:CE1	2.53	0.44
31:W:620:ILE:O	31:W:624:HIS:ND1	2.48	0.44
9:WF:299:MET:HE2	9:WF:299:MET:HB2	1.77	0.44
9:WJ:123:GLU:O	9:WJ:126:SER:OG	2.29	0.44
8:WK:246:GLY:HA2	8:WK:357:TYR:CD1	2.53	0.44
9:WP:151:LEU:O	9:WP:155:ILE:HG12	2.18	0.44
34:X8:95:THR:OG1	34:X8:99:GLN:OE1	2.35	0.44
35:XF:73:LEU:HB2	35:XF:167:PHE:HB3	1.98	0.44
36:Y0:42:THR:HG22	36:Y0:44:THR:H	1.82	0.44
36:Y1:106:TYR:CD2	36:Y1:106:TYR:C	2.92	0.44
37:YB:32:MET:HE3	37:YB:32:MET:HB3	1.87	0.44
39:a6:129:GLN:HA	39:a6:132:LYS:HZ3	1.83	0.44
41:b4:398:VAL:O	41:b4:402:GLN:HG2	2.17	0.44
41:b5:118:ARG:HD3	41:b5:118:ARG:HA	1.70	0.44
39:c:263:GLU:O	39:c:267:LYS:HG2	2.18	0.44
42:g:120:SER:OG	42:g:124:LEU:N	2.47	0.44
44:h2:103:LYS:HB2	44:h2:103:LYS:HE2	1.86	0.44
44:h4:105:VAL:HA	44:h4:108:LYS:HB2	1.99	0.44
43:i:53:LYS:HB3	43:i:53:LYS:HE3	1.75	0.44
46:i4:1432:GLU:HG2	46:i4:1496:TYR:CD1	2.52	0.44
4:j1:120:ASP:N	4:j1:120:ASP:OD1	2.50	0.44
43:k:193:ARG:NH1	43:k:248:LYS:HD3	2.31	0.44
43:k:193:ARG:HA	43:k:196:VAL:HG23	2.00	0.44
47:o:110:GLU:HA	47:o:113:ARG:HE	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:49:TYR:CD2	1:0:50:SER:N	2.85	0.44
2:1:396:PRO:HD2	2:1:399:MET:SD	2.58	0.44
2:1:412:ARG:HH11	2:1:414:LEU:HA	1.82	0.44
3:3:29:LYS:HE2	9:NL:83:GLN:HB3	2.00	0.44
3:3:392:GLU:O	3:3:396:THR:OG1	2.33	0.44
3:4:483:CYS:HA	3:4:486:LYS:HG2	1.98	0.44
4:5:73:ASP:O	4:5:75:ARG:NH2	2.51	0.44
4:5:127:GLU:OE2	4:5:281:ARG:NH2	2.45	0.44
1:7:89:MET:HA	1:7:89:MET:HE2	2.00	0.44
7:A1:107:GLU:HA	7:A1:110:HIS:ND1	2.32	0.44
7:A2:76:GLU:OE1	11:B2:266:ARG:NH2	2.51	0.44
8:AA:311:LYS:H	8:AA:382:THR:HG22	1.83	0.44
8:AA:372:GLN:HB3	33:X4:49:VAL:HB	1.99	0.44
9:AB:135:LEU:HD22	9:AB:152:ILE:HD11	1.99	0.44
9:AH:404:ASP:OD1	9:AH:404:ASP:N	2.38	0.44
9:AJ:3:GLU:O	9:AJ:131:GLN:N	2.50	0.44
8:AK:121:ARG:HA	8:AK:121:ARG:HD2	1.86	0.44
9:AN:326:VAL:O	9:AN:330:MET:HG2	2.18	0.44
8:AO:105:ARG:HH21	8:AO:110:ILE:HD11	1.83	0.44
8:AO:345:ASP:N	8:AO:345:ASP:OD1	2.50	0.44
11:B4:167:GLU:HA	11:B4:170:GLN:HG3	2.00	0.44
9:BD:73:MET:HE3	9:BD:92:PHE:HB3	2.00	0.44
9:BD:330:MET:HB3	9:BD:349:VAL:HG11	1.99	0.44
8:BE:155:GLU:OE1	8:BE:156:ARG:NH1	2.51	0.44
9:BF:296:ALA:H	9:BF:306:ARG:NH2	2.16	0.44
8:BG:192:HIS:NE2	8:BG:421:ALA:HA	2.33	0.44
8:BI:7:ILE:HG22	8:BI:7:ILE:O	2.17	0.44
8:BK:285:GLN:OE1	8:BK:286:LEU:N	2.50	0.44
8:BM:72:PRO:HB3	17:M:286:MET:HE3	2.00	0.44
8:BM:288:VAL:HG11	8:BM:327:ASP:HB2	2.00	0.44
9:BN:173:PRO:HD3	9:BN:380:ARG:CZ	2.48	0.44
8:BO:88:HIS:HB3	8:BO:91:GLN:CG	2.47	0.44
9:BP:170:VAL:HG11	9:BP:377:LEU:HD21	2.00	0.44
12:C4:293:THR:HB	12:C5:413:ARG:HH21	1.82	0.44
9:CB:5:VAL:HB	9:CB:133:PHE:CD1	2.50	0.44
9:CD:250:LEU:HD23	9:CD:250:LEU:HA	1.76	0.44
9:CD:372:THR:HA	9:CD:422:TYR:HE1	1.83	0.44
8:CI:125:LEU:HD23	8:CI:125:LEU:HA	1.86	0.44
9:CP:113:VAL:HG11	9:CP:150:LEU:HD23	1.98	0.44
14:D1:162:ARG:CZ	14:D1:167:LEU:HA	2.48	0.44
14:D2:61:TYR:HB3	38:Z1:147:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:D3:156:LEU:HD12	14:D3:156:LEU:HA	1.85	0.44
14:D4:171:TYR:OH	13:K3:386:PRO:HG3	2.17	0.44
9:DB:12:CYS:SG	9:DB:169:VAL:HG21	2.58	0.44
8:DC:1:MET:SD	8:DC:2:ARG:N	2.87	0.44
8:DC:250:VAL:HG23	8:DC:254:GLU:HB2	1.99	0.44
8:DE:185:TYR:O	8:DE:189:LEU:HD13	2.18	0.44
9:DF:239:CYS:SG	9:DF:248:ALA:N	2.90	0.44
9:DF:309:ARG:HG3	9:DF:426:GLN:HG3	1.98	0.44
9:DH:337:ASN:HB3	9:DH:340:TYR:HD2	1.83	0.44
8:DO:58:ALA:O	8:DO:60:LYS:HG2	2.18	0.44
9:DP:372:THR:HA	9:DP:422:TYR:CE1	2.52	0.44
9:ED:293:MET:HE3	9:ED:293:MET:C	2.42	0.44
9:ED:390:ARG:HH21	9:ED:391:ARG:NE	2.15	0.44
8:EE:320:ARG:O	8:EE:374:ALA:N	2.48	0.44
9:EF:78:SER:OG	31:X:482:LYS:N	2.51	0.44
9:EF:362:LYS:O	9:EF:363:MET:HE2	2.17	0.44
9:EH:239:CYS:SG	9:EH:248:ALA:N	2.90	0.44
9:EJ:344:TRP:HZ3	8:EK:403:ALA:HB2	1.82	0.44
9:EJ:376:GLU:HG2	9:EJ:380:ARG:HH21	1.82	0.44
9:EL:156:ARG:HD2	9:EL:156:ARG:HA	1.85	0.44
9:EN:261:PRO:HG3	8:EO:406:HIS:CD2	2.52	0.44
9:EN:324:LYS:HD3	8:EO:210:TYR:CD1	2.52	0.44
15:F:100:VAL:HA	15:F:103:GLN:CD	2.43	0.44
8:FA:167:LEU:HD21	8:FA:255:PHE:HZ	1.82	0.44
8:FA:269:LEU:N	8:FA:379:SER:O	2.48	0.44
9:FB:54:ALA:HB3	9:FB:58:LYS:HG3	1.99	0.44
9:FD:274:THR:HB	9:FD:278:SER:HB2	2.00	0.44
8:FG:63:PRO:O	8:FG:91:GLN:NE2	2.35	0.44
8:FG:66:VAL:HG13	8:FG:125:LEU:HD12	1.98	0.44
8:FG:230:LEU:O	8:FG:234:ILE:HG23	2.18	0.44
8:FI:22:GLU:OE2	8:FI:363:VAL:HG23	2.17	0.44
8:FI:201:ALA:O	8:FI:268:PRO:HD2	2.18	0.44
9:FN:309:ARG:NH2	9:FN:339:SER:O	2.49	0.44
8:GA:166:LYS:N	8:GA:199:ASP:OD2	2.41	0.44
9:GB:118:ASP:HB3	9:GB:122:LYS:HE2	2.00	0.44
8:GC:388:TRP:HB3	8:GC:425:LEU:HD21	1.98	0.44
8:GE:281:ALA:HA	8:GE:284:GLU:HG2	1.99	0.44
8:GG:279:GLU:OE1	8:GG:279:GLU:N	2.29	0.44
8:GI:35:GLN:C	8:GI:36:MET:HE2	2.42	0.44
8:GI:370:LYS:HA	8:GI:370:LYS:HD2	1.81	0.44
9:GJ:257:MET:SD	9:GJ:312:THR:OG1	2.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GL:1:MET:SD	9:GL:1:MET:N	2.84	0.44
8:GM:77:GLU:CD	26:P2:80:ALA:HB3	2.43	0.44
9:GN:117:LEU:HD23	9:GN:117:LEU:HA	1.84	0.44
9:GN:306:ARG:NH1	36:Y2:55:GLY:O	2.51	0.44
8:GO:88:HIS:HA	8:HO:283:HIS:ND1	2.33	0.44
8:HA:27:GLU:OE2	8:HA:358:GLN:NE2	2.49	0.44
8:HA:85:GLN:O	8:IA:283:HIS:NE2	2.51	0.44
9:HB:205:GLU:HA	9:HB:208:TYR:HD2	1.83	0.44
8:HE:101:ASN:HA	8:HE:144:GLY:H	1.83	0.44
8:HE:129:CYS:SG	8:HE:132:LEU:HD12	2.57	0.44
8:HE:287:SER:O	8:HE:291:ILE:HG23	2.18	0.44
8:HG:311:LYS:H	8:HG:382:THR:HG22	1.81	0.44
8:HI:210:TYR:CE1	8:HI:227:LEU:HD21	2.52	0.44
8:HK:188:ILE:O	8:HK:191:THR:OG1	2.35	0.44
9:HL:116:VAL:O	9:HL:120:VAL:HG22	2.16	0.44
8:HM:25:CYS:SG	8:HM:26:LEU:N	2.90	0.44
9:HN:65:LEU:HB3	9:HN:73:MET:HE1	1.99	0.44
9:HN:323:MET:HE1	8:HO:224:TYR:CD2	2.52	0.44
18:I1:116:LYS:HA	18:I1:116:LYS:HD2	1.77	0.44
8:IA:313:MET:HG3	8:IA:344:VAL:HG11	1.98	0.44
9:IB:215:LEU:HD21	9:IB:273:LEU:HB2	1.99	0.44
9:ID:325:GLU:HG3	8:IE:221:ARG:NH1	2.33	0.44
9:ID:337:ASN:OD1	36:Y1:237:THR:HG22	2.17	0.44
8:IE:2:ARG:NE	8:IE:133:GLN:HB2	2.33	0.44
9:IF:65:LEU:HD13	9:IF:90:PHE:CD1	2.52	0.44
8:IG:121:ARG:HD3	8:IG:125:LEU:HD13	1.99	0.44
9:IH:362:LYS:HA	9:IH:362:LYS:HD3	1.86	0.44
8:II:252:LEU:HA	8:II:255:PHE:CD2	2.53	0.44
8:IK:21:TRP:CE3	8:IK:24:TYR:HD2	2.35	0.44
8:IK:287:SER:O	8:IK:290:GLU:HG2	2.18	0.44
8:IO:315:CYS:HB3	8:IO:317:MET:CE	2.48	0.44
19:J3:227:LYS:HE2	41:b4:231:ARG:NH1	2.30	0.44
19:J4:136:ARG:HH22	9:KL:195:ASN:CG	2.26	0.44
9:JD:8:GLN:HE21	9:JD:14:ASN:HA	1.82	0.44
9:JD:156:ARG:NH1	9:JD:197:ASP:OD1	2.41	0.44
9:JD:170:VAL:HG11	9:JD:377:LEU:HD21	2.00	0.44
9:JD:249:ASP:N	9:JD:249:ASP:OD1	2.50	0.44
9:JD:299:MET:HE2	9:JD:299:MET:HA	1.97	0.44
8:JE:228:ASN:HA	8:JE:231:ILE:HG22	1.99	0.44
8:JG:99:ALA:HA	8:JG:105:ARG:HD3	2.00	0.44
8:JG:167:LEU:HD12	8:JG:200:CYS:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JG:315:CYS:HA	8:JG:379:SER:HA	2.00	0.44
9:JJ:131:GLN:NE2	9:JJ:249:ASP:HB2	2.32	0.44
8:JK:322:ASP:OD2	8:JK:373:ARG:NH2	2.51	0.44
9:JL:207:LEU:HD23	9:JL:207:LEU:HA	1.57	0.44
8:JO:328:VAL:O	8:JO:332:ILE:HG12	2.17	0.44
9:JP:299:MET:HE1	9:JP:367:PHE:CE2	2.53	0.44
13:K3:335:GLU:HA	13:K3:338:LEU:HG	1.98	0.44
9:KB:182:PRO:O	9:KB:186:THR:HG23	2.17	0.44
9:KB:278:SER:O	9:KB:282:ARG:HG3	2.18	0.44
9:KD:255:VAL:HA	8:KE:407:TRP:CE2	2.52	0.44
9:KF:400:GLY:HA2	44:h2:123:PRO:HG3	1.98	0.44
9:KJ:166:THR:HG23	9:KJ:199:THR:HG23	2.00	0.44
9:KJ:191:GLN:HE21	9:KJ:191:GLN:HB2	1.58	0.44
8:KK:172:TYR:CG	8:KK:173:PRO:HD2	2.53	0.44
8:KK:225:THR:HA	8:KK:228:ASN:HB2	2.00	0.44
8:KK:231:ILE:HA	8:KK:234:ILE:HD12	2.00	0.44
8:KM:36:MET:HE3	8:KM:61:HIS:HD2	1.81	0.44
8:KM:326:LYS:HD2	8:KM:326:LYS:HA	1.55	0.44
17:L:221:TYR:HD1	17:L:222:ALA:N	2.16	0.44
9:LH:240:LEU:HA	9:LH:240:LEU:HD12	1.61	0.44
9:LJ:8:GLN:OE1	9:LJ:65:LEU:HG	2.17	0.44
8:LK:130:THR:O	45:n:22:TRP:NE1	2.49	0.44
8:LK:199:ASP:N	8:LK:199:ASP:OD1	2.50	0.44
8:LK:335:ILE:HD11	8:LK:341:ILE:HG13	2.00	0.44
8:LK:405:VAL:HG12	8:LK:409:VAL:HG23	1.99	0.44
9:LL:256:ASN:HD21	8:LM:181:VAL:H	1.66	0.44
9:LL:297:LYS:HA	9:LL:297:LYS:HD3	1.76	0.44
8:LM:175:PRO:HD2	8:LM:207:GLU:OE2	2.16	0.44
9:LN:154:LYS:HZ2	9:LN:154:LYS:HG3	1.67	0.44
9:LN:258:VAL:HB	8:LO:407:TRP:HZ2	1.81	0.44
9:LN:293:MET:HE3	9:LN:293:MET:C	2.43	0.44
8:LO:135:PHE:HE2	8:LO:161:TYR:HD2	1.64	0.44
8:LO:157:LEU:HD23	8:LO:161:TYR:HB2	2.00	0.44
9:LP:404:ASP:N	9:LP:404:ASP:OD1	2.47	0.44
8:MA:209:ILE:HG12	8:MA:302:MET:SD	2.58	0.44
9:MF:285:THR:HG22	9:MF:287:PRO:HD2	1.98	0.44
8:MI:72:PRO:O	8:MI:76:ASP:HB2	2.17	0.44
9:ML:338:SER:HB2	43:k:43:LYS:HB3	1.99	0.44
9:MN:375:GLN:HA	9:MN:378:PHE:HD2	1.82	0.44
17:N:267:ARG:HD2	17:N:269:HIS:CD2	2.53	0.44
8:NC:9:VAL:HG13	8:NC:149:PHE:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ND:21:TRP:CE3	9:ND:24:ILE:HD11	2.53	0.44
9:ND:215:LEU:HB3	9:ND:217:LEU:HD21	1.98	0.44
9:NH:1:MET:HG3	9:NH:2:ARG:H	1.82	0.44
8:NI:376:CYS:SG	8:NI:377:MET:N	2.90	0.44
8:NK:183:GLU:HA	8:NK:186:ASN:HD22	1.82	0.44
8:NK:328:VAL:HG11	8:NK:353:VAL:HG11	2.00	0.44
8:NO:264:ARG:NH1	8:NO:431:ASP:OD2	2.51	0.44
17:O9:153:LEU:HD12	17:O9:157:TYR:CZ	2.53	0.44
9:OB:170:VAL:HG11	9:OB:377:LEU:HD11	2.00	0.44
9:OD:5:VAL:HB	9:OD:133:PHE:HD1	1.82	0.44
8:OE:274:PRO:HG3	8:OE:286:LEU:HD11	2.00	0.44
8:OI:2:ARG:NH2	8:OI:251:ASP:HA	2.33	0.44
8:OI:326:LYS:HA	8:OI:326:LYS:HD3	1.64	0.44
9:OJ:336:LYS:HE3	36:Y4:52:SER:HB2	2.00	0.44
8:OK:324:VAL:O	8:OK:328:VAL:HG23	2.17	0.44
8:OM:90:GLU:OE1	8:OM:121:ARG:NH1	2.50	0.44
27:P5:63:LYS:HA	27:P5:63:LYS:HD3	1.79	0.44
27:P5:172:TRP:HD1	11:R3:16:ASP:HB3	1.82	0.44
17:P9:63:LYS:HD2	30:U3:333:TRP:CZ2	2.52	0.44
17:P9:87:PRO:HG2	11:R4:218:TRP:HZ3	1.82	0.44
9:PB:325:GLU:O	9:PB:329:GLN:N	2.45	0.44
9:PD:134:GLN:NE2	9:PD:165:ASN:O	2.51	0.44
9:PF:67:ASP:HA	9:PF:143:THR:HG21	1.99	0.44
8:PG:65:ALA:O	8:PG:91:GLN:NE2	2.44	0.44
8:PG:136:LEU:HD12	8:PG:169:PHE:HE1	1.82	0.44
9:PH:207:LEU:HB3	9:PH:225:LEU:HG	1.99	0.44
8:PK:11:GLN:HG3	8:PK:74:VAL:HG11	2.00	0.44
8:PK:206:ASN:HB3	8:PK:210:TYR:CZ	2.53	0.44
8:PK:326:LYS:HB3	9:PL:212:PHE:CZ	2.53	0.44
9:PP:156:ARG:NH1	9:PP:197:ASP:OD1	2.40	0.44
28:Q1:18:LEU:HD13	12:S4:386:ILE:HG12	2.00	0.44
28:Q2:24:ASP:HB2	12:S7:435:GLN:NE2	2.24	0.44
28:Q3:105:LEU:HD22	28:Q3:109:TYR:HB2	2.00	0.44
28:Q4:34:LEU:H	28:Q4:34:LEU:HD23	1.82	0.44
9:QB:324:LYS:O	9:QB:328:GLU:N	2.46	0.44
8:QC:6:SER:HB3	8:QC:8:HIS:CD2	2.53	0.44
9:QH:11:GLN:NE2	9:QH:67:ASP:OD2	2.51	0.44
9:QH:273:LEU:O	9:QH:292:GLN:NE2	2.51	0.44
9:QH:372:THR:HG21	9:QH:426:GLN:CD	2.43	0.44
9:QJ:28:HIS:CG	9:QJ:47:ILE:HG13	2.53	0.44
9:QJ:329:GLN:O	9:QJ:333:VAL:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QM:384:ILE:HG12	8:QM:388:TRP:HE1	1.81	0.44
9:QP:337:ASN:HB3	9:QP:340:TYR:HD2	1.82	0.44
11:R1:416:ASN:OD1	11:R1:416:ASN:N	2.47	0.44
11:R3:389:LYS:HD2	12:S8:337:TRP:CZ2	2.53	0.44
11:R4:22:TYR:O	11:R4:26:THR:HG23	2.18	0.44
11:R4:104:GLN:NE2	14:T1:161:ARG:O	2.51	0.44
9:RD:5:VAL:HB	9:RD:133:PHE:HD1	1.83	0.44
9:RF:138:SER:HA	9:RF:169:VAL:HB	1.99	0.44
9:RH:138:SER:HA	9:RH:169:VAL:HB	2.00	0.44
8:RM:333:ALA:O	8:RM:337:THR:HG23	2.18	0.44
8:RO:250:VAL:HG13	8:RO:254:GLU:HB2	2.00	0.44
29:S:335:ARG:NH1	29:S:339:ASP:OD1	2.51	0.44
12:S1:243:GLN:NE2	12:S1:247:ASP:OD1	2.50	0.44
12:S1:420:LEU:HA	12:S1:423:GLU:HB2	2.00	0.44
12:S2:328:LEU:HD12	12:S2:328:LEU:O	2.17	0.44
12:S6:443:ASP:HA	12:S6:446:GLN:HB3	1.99	0.44
12:S7:127:LEU:HD22	12:S8:437:ARG:NH1	2.33	0.44
9:SB:31:ASP:OD1	9:SB:35:THR:N	2.50	0.44
8:SC:57:GLY:H	8:TC:285:GLN:HA	1.83	0.44
8:SC:317:MET:HE2	8:SC:319:TYR:CD1	2.53	0.44
8:SE:2:ARG:HB3	8:SE:242:LEU:HD23	2.00	0.44
9:SJ:72:THR:O	9:SJ:75:SER:OG	2.26	0.44
9:SL:174:LYS:HB3	9:SL:205:GLU:OE1	2.18	0.44
8:SM:289:ALA:O	8:SM:293:ASN:ND2	2.49	0.44
25:T:169:ASN:HD21	25:T:201:LEU:HA	1.83	0.44
14:T4:164:HIS:CD2	14:T4:165:PRO:HA	2.53	0.44
8:TA:169:PHE:CE2	8:TA:235:VAL:HG22	2.53	0.44
8:TA:250:VAL:HG13	8:TA:254:GLU:HB2	1.98	0.44
8:TC:101:ASN:HA	8:TC:144:GLY:N	2.32	0.44
9:TD:375:GLN:HA	9:TD:378:PHE:HD2	1.82	0.44
8:TE:147:SER:OG	8:TE:190:THR:OG1	2.27	0.44
9:TH:15:GLN:O	9:TH:19:LYS:HD3	2.16	0.44
8:TI:203:MET:HA	8:TI:203:MET:CE	2.43	0.44
8:TM:345:ASP:N	8:TM:345:ASP:OD1	2.49	0.44
9:TN:267:MET:HG2	9:TN:299:MET:CE	2.48	0.44
25:U:452:PHE:HD1	25:U:465:LYS:HD2	1.82	0.44
30:U0:271:ARG:HD3	30:U0:271:ARG:HA	1.72	0.44
30:U4:126:ASP:O	30:U4:129:GLN:NE2	2.50	0.44
30:U7:343:PHE:HB3	30:U7:470:MET:HE3	1.99	0.44
8:UA:204:VAL:HG13	8:UA:302:MET:HB3	1.99	0.44
8:UA:214:ARG:HH21	8:UA:222:PRO:HD2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UA:278:ALA:HA	8:UA:281:ALA:HB3	2.00	0.44
9:UB:276:ARG:HH12	9:UB:280:GLN:HG2	1.81	0.44
9:UB:325:GLU:H	8:UC:221:ARG:NH1	2.15	0.44
8:UC:311:LYS:H	8:UC:382:THR:HG22	1.81	0.44
8:UE:24:TYR:HB3	8:UE:28:HIS:CE1	2.48	0.44
9:UF:372:THR:HA	9:UF:422:TYR:CE1	2.51	0.44
9:UJ:12:CYS:SG	9:UJ:169:VAL:HG21	2.56	0.44
8:UK:79:ARG:HH21	8:UK:94:THR:HG23	1.82	0.44
9:UL:64:VAL:HG21	9:UL:120:VAL:HG12	1.99	0.44
9:UL:270:PHE:CE1	9:UL:272:PRO:HD2	2.53	0.44
9:UN:68:LEU:HB3	9:UN:96:GLY:HA2	1.99	0.44
9:UN:368:ILE:HD12	9:UN:368:ILE:HA	1.87	0.44
8:UO:279:GLU:HA	8:UO:282:TYR:CE2	2.52	0.44
25:V:299:LYS:HG2	25:V:300:VAL:HG23	1.99	0.44
30:V1:216:ILE:HB	30:V1:217:ARG:HH12	1.83	0.44
30:V2:129:GLN:HA	30:V2:132:HIS:CD2	2.52	0.44
30:V2:402:ARG:NH1	30:V2:408:CYS:H	2.15	0.44
30:V4:196:TYR:O	30:V4:200:LYS:HG3	2.18	0.44
30:V7:269:ASN:O	30:V7:270:LEU:HB2	2.17	0.44
30:V8:196:TYR:O	30:V8:199:GLU:HG2	2.17	0.44
30:V9:349:GLU:O	30:V9:353:VAL:HG23	2.17	0.44
9:VB:7:LEU:HD12	9:VB:135:LEU:HB2	1.99	0.44
9:VB:45:GLU:HG2	9:VB:46:ARG:HG2	1.99	0.44
9:VB:169:VAL:HA	9:VB:202:ILE:HG22	2.00	0.44
9:VB:325:GLU:OE2	8:VC:221:ARG:NH1	2.51	0.44
8:VG:352:LYS:HE2	9:VH:178:THR:HA	2.00	0.44
9:VH:322:SER:O	8:VI:221:ARG:NH1	2.51	0.44
9:VJ:21:TRP:CE3	9:VJ:24:ILE:HD11	2.52	0.44
9:VJ:47:ILE:HG12	9:VJ:51:TYR:HB2	2.00	0.44
9:VL:87:PRO:HD3	9:WL:281:TYR:CD2	2.52	0.44
8:VM:88:HIS:CE1	8:VM:90:GLU:HB3	2.52	0.44
8:VM:282:TYR:OH	39:b:373:ARG:NH2	2.50	0.44
31:W:19:ARG:O	31:W:44:GLY:HA2	2.18	0.44
31:W:284:LEU:HD12	31:W:285:PRO:HD2	1.99	0.44
30:W0:308:GLN:O	30:W0:309:ASN:C	2.61	0.44
9:WB:249:ASP:H	9:WB:252:LYS:HB2	1.82	0.44
9:WF:150:LEU:O	9:WF:154:LYS:HG2	2.18	0.44
8:WG:40:LYS:CE	42:f:238:LEU:HA	2.46	0.44
9:WJ:139:LEU:HD21	9:WJ:168:SER:HB3	2.00	0.44
9:WL:44:LEU:O	9:WL:44:LEU:HD23	2.18	0.44
9:WN:22:GLU:HG2	9:WN:81:PHE:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WN:150:LEU:HG	9:WN:154:LYS:HE2	2.00	0.44
31:X:67:ASP:N	31:X:67:ASP:OD1	2.49	0.44
34:X8:109:GLY:O	34:X8:113:ARG:N	2.45	0.44
35:XB:1:MET:HE3	35:XB:1:MET:HB2	1.83	0.44
37:YB:89:TYR:CZ	37:YB:118:MET:HE3	2.52	0.44
38:Z1:137:LYS:NZ	38:Z1:141:ARG:HE	2.16	0.44
41:b5:112:PRO:HG2	41:b5:113:MET:SD	2.57	0.44
42:e:467:ILE:HG23	42:e:478:THR:HG22	2.00	0.44
42:e:532:PHE:HB2	47:o:76:MET:SD	2.58	0.44
42:g:520:SER:HB2	42:g:548:ILE:HB	2.00	0.44
44:h2:118:MET:HE3	44:h2:124:LEU:HB2	2.00	0.44
45:i1:112:GLU:OE2	45:i1:112:GLU:N	2.45	0.44
46:i4:1423:ALA:O	46:i4:1508:ASN:HB3	2.18	0.44
43:k:156:GLU:O	43:k:160:LYS:HG3	2.18	0.44
47:p:506:ARG:HA	47:p:506:ARG:HD3	1.77	0.44
2:1:786:ARG:HA	2:1:786:ARG:HD3	1.74	0.44
3:3:340:LYS:HA	3:3:343:ASN:ND2	2.33	0.44
5:8:81:TYR:CE1	5:8:85:ILE:HD11	2.52	0.44
7:A2:390:CYS:SG	7:A2:391:MET:N	2.90	0.44
7:A3:384:TYR:HB2	12:C3:467:TYR:CZ	2.52	0.44
8:AA:157:LEU:O	8:AA:166:LYS:NZ	2.51	0.44
9:AB:146:GLY:O	9:AB:149:THR:OG1	2.35	0.44
9:AD:3:GLU:O	9:AD:4:ILE:HD13	2.18	0.44
8:AE:141:PHE:HB2	8:AE:173:PRO:HD3	2.00	0.44
9:AF:150:LEU:HG	9:AF:154:LYS:HE2	1.99	0.44
9:AH:254:ALA:O	9:AH:258:VAL:HG12	2.17	0.44
9:AH:429:THR:HG21	9:AH:432:GLU:HB3	1.99	0.44
8:AI:265:ILE:HG23	8:AI:432:TYR:CZ	2.53	0.44
9:AJ:286:VAL:HG11	9:AJ:326:VAL:HG12	2.00	0.44
9:AL:8:GLN:HE21	9:AL:14:ASN:HA	1.83	0.44
8:AO:326:LYS:HG3	8:AO:327:ASP:H	1.83	0.44
8:AO:420:GLU:HB2	35:XH:108:TYR:CE2	2.53	0.44
10:B:112:GLN:NE2	9:HH:80:PRO:HA	2.32	0.44
10:B:209:LEU:HD12	10:B:209:LEU:HA	1.83	0.44
11:B1:206:THR:HG21	11:B2:342:VAL:HG21	2.00	0.44
11:B2:21:SER:OG	11:B3:275:PHE:HE2	2.00	0.44
11:B4:180:MET:HE1	28:Q4:132:PRO:HA	1.98	0.44
11:B4:387:ASP:N	11:B4:387:ASP:OD1	2.50	0.44
11:B5:408:VAL:HA	12:C6:46:LEU:HB3	1.99	0.44
9:BD:189:VAL:HG13	9:BD:415:MET:HE3	2.00	0.44
9:BD:222:TYR:O	9:BD:226:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BD:261:PRO:HG3	8:BE:406:HIS:CD2	2.53	0.44
8:BE:7:ILE:O	8:BE:9:VAL:HG23	2.17	0.44
8:BE:151:SER:HA	8:BE:154:MET:HE2	2.00	0.44
9:BF:346:PRO:HD2	8:BG:398:MET:HG3	1.99	0.44
8:BM:7:ILE:O	8:BM:9:VAL:HG23	2.18	0.44
8:BO:191:THR:HG21	8:BO:425:LEU:HD22	2.00	0.44
10:C:372:GLU:O	10:C:375:PHE:HB3	2.18	0.44
12:C4:400:LEU:O	12:C4:404:THR:HG23	2.17	0.44
8:CC:6:SER:HB2	8:CC:8:HIS:CD2	2.52	0.44
8:CC:73:THR:HA	8:CC:76:ASP:HB2	1.99	0.44
9:CJ:189:VAL:HG11	9:CJ:415:MET:SD	2.58	0.44
9:CJ:310:TYR:CD1	9:CJ:371:SER:HB2	2.52	0.44
8:CK:180:ALA:HB3	8:CK:183:GLU:HB2	2.00	0.44
8:CK:192:HIS:NE2	8:CK:421:ALA:HA	2.33	0.44
9:CN:248:ALA:HA	9:CN:252:LYS:HD2	1.99	0.44
8:CQ:317:MET:HE3	8:CQ:351:PHE:CD1	2.50	0.44
14:D4:155:ASN:O	14:D4:159:ARG:HB2	2.18	0.44
9:DD:276:ARG:HD3	9:DD:276:ARG:HA	1.74	0.44
9:DH:246:LEU:HD21	8:DI:179:THR:HB	2.00	0.44
9:DH:302:ALA:HB3	9:DH:380:ARG:HH22	1.83	0.44
9:DN:146:GLY:O	9:DN:149:THR:OG1	2.31	0.44
8:EC:52:PHE:CE2	8:EC:243:ARG:HD3	2.53	0.44
8:EC:225:THR:O	8:EC:229:ARG:HG3	2.18	0.44
9:EH:103:LYS:NZ	9:EH:108:GLU:OE2	2.49	0.44
8:EI:217:LEU:HD11	8:EI:275:VAL:HG22	1.98	0.44
8:EK:114:ILE:HG22	8:EK:117:LEU:HD21	2.00	0.44
9:EL:86:ARG:HG2	9:EL:88:ASP:H	1.83	0.44
9:EL:144:GLY:N	52:EL:502:GDP:O1B	2.43	0.44
8:EM:40:LYS:NZ	31:Z:453:VAL:O	2.50	0.44
9:EN:207:LEU:HB3	9:EN:225:LEU:HD22	1.99	0.44
8:EO:34:GLY:HA3	8:EO:60:LYS:NZ	2.32	0.44
8:FA:161:TYR:CE2	36:Y3:66:PRO:HB3	2.53	0.44
8:FA:210:TYR:HB3	8:FA:214:ARG:HH21	1.82	0.44
9:FB:205:GLU:HA	9:FB:208:TYR:HD2	1.83	0.44
8:FC:88:HIS:HE1	8:GC:284:GLU:HB2	1.83	0.44
9:FF:155:ILE:HD11	9:FF:164:MET:CE	2.48	0.44
9:GB:238:THR:HG21	9:GB:318:ARG:HD3	1.98	0.44
9:GB:267:MET:HE1	9:GB:367:PHE:HE2	1.82	0.44
8:GC:102:ASN:ND2	8:GC:105:ARG:HB2	2.33	0.44
8:GC:322:ASP:OD2	8:GC:373:ARG:NH2	2.33	0.44
8:GE:166:LYS:N	8:GE:199:ASP:OD2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GF:87:PRO:HD3	9:HF:281:TYR:HE2	1.83	0.44
9:GF:192:LEU:HD21	9:GF:199:THR:HG21	1.99	0.44
9:GF:324:LYS:HZ2	8:GG:214:ARG:HB2	1.82	0.44
9:GH:214:THR:O	9:GH:216:LYS:NZ	2.51	0.44
9:GH:416:ASN:HA	9:GH:419:VAL:HG22	1.99	0.44
8:GK:50:ASN:O	8:GK:64:ARG:NH1	2.51	0.44
8:GK:192:HIS:CE1	8:GK:193:THR:HG23	2.53	0.44
17:H:246:ASP:HA	17:H:249:LYS:HG2	2.00	0.44
8:HA:68:VAL:HA	8:HA:93:ILE:O	2.17	0.44
8:HA:329:ASN:O	8:HA:332:ILE:HG22	2.17	0.44
9:HB:324:LYS:HG2	9:HB:328:GLU:OE1	2.18	0.44
8:HC:4:CYS:HA	8:HC:134:GLY:O	2.18	0.44
8:HC:111:GLY:O	8:HC:115:VAL:HG23	2.18	0.44
9:HD:344:TRP:CH2	8:HE:403:ALA:HB2	2.53	0.44
9:HF:86:ARG:HA	9:IF:281:TYR:HD2	1.83	0.44
8:HG:252:LEU:HA	8:HG:255:PHE:CE1	2.53	0.44
8:HG:346:TRP:O	9:HH:388:MET:HG3	2.18	0.44
9:HJ:390:ARG:O	9:HJ:392:LYS:NZ	2.51	0.44
8:HK:111:GLY:O	8:HK:115:VAL:HG13	2.17	0.44
8:HK:203:MET:CE	8:HK:203:MET:H	2.30	0.44
9:HN:322:SER:CB	8:HO:221:ARG:HG2	2.48	0.44
8:HO:288:VAL:HB	8:HO:327:ASP:OD1	2.18	0.44
9:HP:87:PRO:HD3	9:IP:281:TYR:CE2	2.53	0.44
9:HP:377:LEU:HD13	9:HP:380:ARG:HH12	1.83	0.44
8:IA:25:CYS:SG	8:IA:26:LEU:N	2.91	0.44
8:IA:107:HIS:ND1	8:IA:108:TYR:CE2	2.86	0.44
9:IF:47:ILE:HG13	9:IF:51:TYR:HB2	1.99	0.44
9:IF:358:PRO:HG2	9:IF:361:LEU:HB2	2.00	0.44
8:IG:285:GLN:OE1	8:IG:286:LEU:N	2.51	0.44
8:II:311:LYS:H	8:II:382:THR:CG2	2.27	0.44
8:IK:437:VAL:O	9:IL:391:ARG:NH2	2.51	0.44
9:IL:287:PRO:O	9:IL:291:GLN:HG3	2.16	0.44
9:IL:326:VAL:HA	9:IL:329:GLN:OE1	2.18	0.44
8:IM:210:TYR:HE1	8:IM:227:LEU:HD11	1.83	0.44
9:IN:274:THR:HB	9:IN:278:SER:HB2	1.99	0.44
9:IN:344:TRP:H	9:IN:344:TRP:CD1	2.35	0.44
19:J4:68:LEU:HA	8:OK:221:ARG:HE	1.82	0.44
19:J4:199:GLN:O	19:J4:203:LYS:HB2	2.17	0.44
19:J5:70:LYS:HG2	19:J5:71:PRO:HD2	2.00	0.44
8:JE:105:ARG:O	8:JE:110:ILE:HG12	2.18	0.44
9:JF:103:LYS:O	9:JF:108:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JI:428:LEU:HA	8:JI:431:ASP:OD2	2.18	0.44
9:JL:309:ARG:H	9:JL:372:THR:HB	1.81	0.44
8:JM:116:ASP:OD1	8:JM:117:LEU:N	2.50	0.44
20:K2:14:ASP:OD1	20:K2:14:ASP:N	2.51	0.44
8:KC:53:PHE:HB3	8:KC:61:HIS:HB3	2.00	0.44
8:KC:85:GLN:OE1	8:KC:85:GLN:HA	2.17	0.44
8:KE:412:GLY:C	41:b2:362:HIS:NE2	2.76	0.44
9:KH:147:MET:HE3	9:KH:147:MET:HB3	1.72	0.44
9:KN:139:LEU:HD21	9:KN:192:LEU:HD11	1.99	0.44
9:KP:212:PHE:HB3	6:N1:29:PHE:HE2	1.78	0.44
8:LA:210:TYR:HB3	8:LA:214:ARG:NH1	2.33	0.44
9:LF:253:LEU:O	9:LF:257:MET:CB	2.63	0.44
8:LG:270:ALA:O	8:LG:271:THR:OG1	2.36	0.44
8:LG:415:GLU:H	8:LG:415:GLU:CD	2.26	0.44
9:LH:51:TYR:HB3	9:LH:59:TYR:HB3	1.98	0.44
9:LH:65:LEU:HB3	9:LH:73:MET:HE1	2.00	0.44
8:LI:145:THR:OG1	50:LI:501:GTP:O1G	2.28	0.44
8:LI:150:ALA:O	8:LI:154:MET:HG2	2.17	0.44
8:LO:271:THR:HA	8:LO:302:MET:SD	2.58	0.44
8:LO:287:SER:N	8:LO:290:GLU:OE1	2.51	0.44
22:M1:197:GLU:HG2	22:M1:199:ARG:HH21	1.83	0.44
8:MC:336:LYS:HB3	45:l:4:ASN:HD21	1.82	0.44
8:MG:270:ALA:O	8:MG:302:MET:HG3	2.17	0.44
9:MH:1:MET:SD	8:MI:72:PRO:HG3	2.58	0.44
9:MN:79:GLY:C	23:P:20:ARG:HH22	2.26	0.44
9:MN:251:ARG:HA	9:MN:254:ALA:HB3	1.99	0.44
9:MP:313:VAL:HG13	9:MP:367:PHE:HE1	1.83	0.44
8:NC:122:ILE:HD11	8:NC:135:PHE:HZ	1.83	0.44
8:NC:263:PRO:HG3	9:ND:396:HIS:CG	2.52	0.44
9:ND:47:ILE:HG12	9:ND:51:TYR:HB2	1.99	0.44
9:NF:211:CYS:HA	9:NF:215:LEU:HD13	1.99	0.44
9:NH:4:ILE:HA	9:NH:132:GLY:O	2.17	0.44
9:NH:98:GLY:O	9:NH:100:ASN:ND2	2.51	0.44
9:NJ:202:ILE:HA	9:NJ:202:ILE:HD12	1.75	0.44
9:NL:27:GLU:HG2	9:NL:241:ARG:HH22	1.83	0.44
9:NL:68:LEU:H	9:NL:143:THR:HG21	1.83	0.44
9:NN:156:ARG:NE	9:NN:195:ASN:OD1	2.51	0.44
9:NP:42:LEU:HD23	9:NP:356:ILE:HD11	2.00	0.44
9:NP:207:LEU:HD23	9:NP:300:MET:HB2	1.99	0.44
24:O3:39:LYS:HB2	24:O3:39:LYS:HE2	1.81	0.44
25:O5:269:MET:HE3	25:O5:269:MET:HB3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O8:145:ALA:HB1	17:O8:165:ALA:HB1	2.00	0.44
8:OA:311:LYS:HD3	8:OA:344:VAL:HG12	2.00	0.44
8:OC:169:PHE:HA	8:OC:202:PHE:HB2	2.00	0.44
8:OE:231:ILE:O	8:OE:235:VAL:HG23	2.18	0.44
8:OE:263:PRO:HG3	9:OF:396:HIS:CD2	2.52	0.44
9:OF:253:LEU:O	9:OF:256:ASN:N	2.49	0.44
8:OK:184:PRO:HG2	8:OK:394:LYS:HE2	2.00	0.44
8:OK:413:MET:HE3	8:OK:413:MET:HB3	1.83	0.44
8:OM:88:HIS:CE1	8:PM:280:LYS:HD2	2.52	0.44
9:ON:132:GLY:HA3	9:ON:163:ILE:O	2.18	0.44
8:OO:2:ARG:NH2	8:OO:251:ASP:HA	2.33	0.44
8:OO:186:ASN:O	8:OO:190:THR:OG1	2.30	0.44
8:OO:298:PRO:HG3	8:OO:308:ARG:HE	1.82	0.44
23:P:274:TRP:HZ2	23:P:277:MET:HG3	1.83	0.44
26:P1:68:PHE:O	26:P1:72:VAL:HG12	2.18	0.44
27:P4:44:LEU:HD21	25:U:237:THR:HG21	1.99	0.44
27:P4:178:PHE:N	11:R1:125:ASP:OD1	2.43	0.44
27:P5:45:ASP:HA	25:V:358:LYS:HE3	1.99	0.44
27:P6:157:LEU:O	27:P6:157:LEU:HD12	2.18	0.44
17:P8:99:GLU:HB2	30:W6:59:ILE:HD11	2.00	0.44
9:PF:375:GLN:HA	9:PF:378:PHE:HD2	1.83	0.44
8:PM:3:GLU:O	8:PM:133:GLN:N	2.47	0.44
9:PN:374:ILE:HD12	9:PN:374:ILE:HA	1.87	0.44
8:PO:32:PRO:HA	8:PO:86:LEU:HD21	2.00	0.44
9:QB:261:PRO:HB2	9:QB:262:ARG:NH2	2.32	0.44
9:QB:329:GLN:O	9:QB:333:VAL:HG12	2.18	0.44
8:QE:62:VAL:HG22	8:RE:283:HIS:CE1	2.53	0.44
8:QE:408:TYR:HB3	8:QE:413:MET:HB2	2.00	0.44
9:QF:91:VAL:HG11	9:QF:116:VAL:HG22	1.99	0.44
8:QI:115:VAL:HG12	8:QI:152:LEU:HD13	2.00	0.44
9:QJ:27:GLU:OE1	9:QJ:241:ARG:NH1	2.51	0.44
8:QK:93:ILE:HD13	8:QK:93:ILE:HA	1.86	0.44
8:QO:118:VAL:HG12	8:QO:122:ILE:HD11	2.00	0.44
8:QO:389:ALA:HB3	8:QO:390:ARG:HH12	1.81	0.44
11:R4:396:LYS:HE3	12:S9:348:THR:HG21	1.99	0.44
9:RD:172:SER:OG	9:RD:205:GLU:OE1	2.31	0.44
9:RH:376:GLU:HG3	9:RH:380:ARG:HH22	1.83	0.44
9:RL:50:TYR:CE2	9:RL:241:ARG:HD3	2.53	0.44
12:S0:206:MET:N	12:S0:206:MET:HE2	2.33	0.44
12:S1:55:TYR:HE1	12:S7:228:CYS:HB2	1.82	0.44
12:S2:204:LYS:HZ1	12:S7:255:GLU:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S3:336:MET:HE2	12:S3:336:MET:HB3	1.90	0.44
12:S7:196:ARG:CZ	12:S7:200:PHE:HB2	2.48	0.44
12:S9:199:LEU:O	12:S9:203:GLU:HG2	2.17	0.44
8:SE:230:LEU:HD11	8:SE:368:LEU:HD21	2.00	0.44
25:T:244:ARG:HG2	25:T:265:HIS:CE1	2.53	0.44
14:T1:346:LYS:HD2	14:T1:346:LYS:HA	1.65	0.44
14:T2:286:LEU:HD23	14:T2:286:LEU:HA	1.75	0.44
14:T4:164:HIS:CG	14:T4:165:PRO:HA	2.52	0.44
14:T5:376:ARG:NH1	14:T5:376:ARG:O	2.51	0.44
9:TB:143:THR:O	9:TB:148:GLY:N	2.45	0.44
9:TH:72:THR:O	9:TH:76:VAL:HG23	2.18	0.44
9:TH:238:THR:HG21	9:TH:318:ARG:HH11	1.82	0.44
9:TH:309:ARG:HG3	9:TH:426:GLN:HG3	2.00	0.44
9:TJ:87:PRO:HA	9:TJ:90:PHE:CD2	2.53	0.44
8:TK:37:PRO:O	39:d:540:ARG:NH1	2.51	0.44
8:TM:27:GLU:OE2	8:TM:320:ARG:NH2	2.50	0.44
8:TM:73:THR:O	8:TM:77:GLU:HG2	2.17	0.44
8:TM:226:ASN:O	8:TM:229:ARG:HG2	2.18	0.44
8:TM:278:ALA:HB2	8:TM:369:ALA:HB2	2.00	0.44
25:U:423:LEU:HB2	25:U:507:ASP:HB3	2.00	0.44
30:U1:126:ASP:O	30:U1:130:LEU:HD12	2.18	0.44
30:U1:183:GLU:OE1	30:U1:481:ARG:NE	2.42	0.44
30:U5:152:TRP:HB3	30:U5:257:LYS:HE2	1.99	0.44
30:U6:305:ARG:O	30:U6:309:ASN:ND2	2.51	0.44
30:U7:124:MET:HA	30:U7:127:LYS:HZ1	1.83	0.44
9:UF:324:LYS:HD3	8:UG:222:PRO:HD2	1.99	0.44
9:UF:375:GLN:HA	9:UF:378:PHE:HD2	1.83	0.44
9:UJ:156:ARG:HD3	9:UJ:164:MET:HG3	1.99	0.44
9:UL:51:TYR:O	9:UL:62:ARG:NH2	2.49	0.44
8:UM:2:ARG:HH21	9:UN:69:GLU:HG3	1.83	0.44
8:UM:153:LEU:O	8:UM:157:LEU:HB2	2.17	0.44
30:V0:354:LYS:O	30:V0:358:GLN:HG2	2.18	0.44
30:V2:174:LYS:NZ	30:V2:233:ALA:O	2.50	0.44
30:V3:412:PRO:O	30:V3:416:LEU:HG	2.17	0.44
30:V4:170:MET:HE1	30:V4:318:ARG:HB2	1.98	0.44
30:V4:215:LEU:O	30:V4:219:VAL:HG23	2.18	0.44
30:V6:310:MET:HE2	30:V6:310:MET:HB2	1.71	0.44
30:V8:442:GLN:O	30:V8:446:MET:HG2	2.17	0.44
30:V9:354:LYS:HZ3	30:V9:459:ALA:HA	1.83	0.44
8:VI:23:LEU:HD12	8:VI:26:LEU:HD11	2.00	0.44
8:VI:154:MET:HE3	8:VI:193:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VI:276:ILE:HG23	8:VI:280:LYS:HE2	2.00	0.44
8:VI:298:PRO:HG3	8:VI:308:ARG:HE	1.83	0.44
9:VJ:20:PHE:HB2	9:VJ:233:MET:HE3	2.00	0.44
8:VK:11:GLN:HG3	8:VK:74:VAL:HG11	2.00	0.44
30:W0:387:TYR:CD1	30:W0:390:LYS:HE3	2.52	0.44
30:W4:208:HIS:HA	30:W4:212:GLU:HG3	2.00	0.44
8:WA:108:TYR:CE2	8:WA:413:MET:HE2	2.53	0.44
8:WA:213:CYS:HA	8:WA:217:LEU:HD23	1.98	0.44
9:WB:52:ASN:HB3	9:WB:60:VAL:HG23	2.00	0.44
8:WE:21:TRP:HA	8:WE:24:TYR:HD2	1.83	0.44
9:WH:257:MET:SD	9:WH:312:THR:OG1	2.70	0.44
8:WI:172:TYR:HB2	8:WI:203:MET:HB3	2.00	0.44
8:WK:236:SER:HA	8:WK:243:ARG:HH12	1.83	0.44
9:WL:361:LEU:HD12	9:WL:361:LEU:HA	1.87	0.44
8:WM:286:LEU:HG	8:WM:373:ARG:HH11	1.82	0.44
8:WO:105:ARG:HH21	8:WO:110:ILE:HD11	1.83	0.44
8:WO:319:TYR:CG	8:WO:323:VAL:HG21	2.53	0.44
32:X0:203:HIS:NE2	32:X0:205:CYS:HB2	2.32	0.44
33:X4:84:LYS:HE3	33:X4:84:LYS:HB3	1.81	0.44
34:X6:133:HIS:CE1	34:X6:155:PHE:HA	2.53	0.44
35:XD:96:ASP:HA	35:XD:149:ILE:HD11	2.00	0.44
35:XE:15:TYR:HD1	35:XE:16:SER:H	1.66	0.44
35:XE:20:LYS:HD3	35:XE:20:LYS:HA	1.82	0.44
35:XG:25:TRP:CD2	35:XG:61:CYS:HB3	2.53	0.44
37:YC:93:LEU:HD23	37:YC:129:VAL:HG11	1.98	0.44
40:a4:84:LYS:HD3	40:a4:91:LEU:HD22	2.00	0.44
41:b4:220:SER:O	41:b4:224:LEU:HG	2.18	0.44
39:c:99:GLY:N	43:k:248:LYS:H	2.16	0.44
39:c:465:GLU:O	39:c:469:LYS:HG2	2.18	0.44
42:e:175:VAL:HG21	42:e:220:PHE:CZ	2.53	0.44
42:e:503:THR:OG1	42:e:522:THR:N	2.51	0.44
42:f:392:ALA:HA	42:f:398:ILE:HD13	2.00	0.44
42:g:571:VAL:HG21	42:g:617:PRO:HG3	1.99	0.44
46:i4:1420:ILE:HD11	45:n:40:GLN:HE21	1.82	0.44
4:j1:259:THR:HB	4:j1:331:ILE:HG13	2.00	0.44
2:1:576:LYS:HB3	2:1:648:TRP:NE1	2.33	0.44
2:2:351:ILE:HD12	2:2:351:ILE:H	1.83	0.44
2:2:502:LYS:H	6:N1:94:LYS:HA	1.82	0.44
2:2:514:LYS:HE3	2:2:514:LYS:HB3	1.79	0.44
2:2:515:LEU:N	6:N1:100:ARG:HH21	2.16	0.44
3:3:335:MET:HE3	3:3:335:MET:HB3	1.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:388:GLN:HA	3:4:391:ASN:HD21	1.82	0.44
3:4:487:ILE:HD13	3:4:490:ILE:HD11	1.98	0.44
5:8:103:HIS:ND1	8:JK:225:THR:HG21	2.33	0.44
6:A:27:ARG:HH22	6:A:28:ASN:HB2	1.83	0.44
7:A1:201:SER:HB3	7:A1:204:VAL:HG21	2.00	0.44
8:AC:68:VAL:HG12	8:AC:93:ILE:HB	2.00	0.44
9:AD:40:SER:OG	9:AD:43:GLN:OE1	2.32	0.44
8:AE:274:PRO:HG3	8:AE:286:LEU:HD13	1.99	0.44
9:AF:216:LYS:HB3	9:AF:216:LYS:HE3	1.81	0.44
8:AM:155:GLU:HG2	8:AM:197:HIS:CE1	2.53	0.44
9:AN:87:PRO:HD3	9:BN:281:TYR:CD2	2.53	0.44
10:B:31:MET:N	10:B:31:MET:SD	2.91	0.44
11:B1:36:HIS:HA	11:B1:39:ARG:HE	1.83	0.44
11:B1:269:LEU:HA	11:B1:269:LEU:HD23	1.73	0.44
11:B2:411:PHE:CE1	12:S6:235:GLN:HB3	2.53	0.44
9:BB:271:ALA:HB1	9:BB:289:LEU:HD22	2.00	0.44
8:BC:68:VAL:HG12	8:BC:93:ILE:HB	2.00	0.44
8:BE:332:ILE:HG23	8:BE:351:PHE:CE2	2.53	0.44
9:BF:268:PRO:HG2	9:BF:300:MET:HG3	1.99	0.44
9:BF:375:GLN:HA	9:BF:378:PHE:HD2	1.82	0.44
8:BG:101:ASN:HA	8:BG:144:GLY:N	2.23	0.44
8:BG:172:TYR:N	8:BG:204:VAL:O	2.28	0.44
8:BG:245:ASP:OD1	8:BG:245:ASP:N	2.47	0.44
9:BJ:224:ASP:OD2	25:V:216:ARG:NH2	2.34	0.44
8:BM:3:GLU:OE1	8:BM:129:CYS:HB3	2.17	0.44
8:BO:66:VAL:HG12	8:BO:68:VAL:HG13	1.98	0.44
8:BO:111:GLY:H	8:BO:112:LYS:HZ2	1.66	0.44
12:C2:91:PHE:CE2	12:C2:93:ARG:HD2	2.53	0.44
9:CB:419:VAL:O	9:CB:423:GLN:N	2.44	0.44
8:CE:401:LYS:HA	8:CE:401:LYS:HD3	1.83	0.44
8:CE:427:ALA:HA	8:CE:430:LYS:HD3	2.00	0.44
8:CG:370:LYS:NZ	31:X:223:ILE:HA	2.33	0.44
8:CI:35:GLN:HE22	8:CI:60:LYS:HB2	1.82	0.44
9:CJ:232:THR:OG1	9:CJ:300:MET:HE1	2.17	0.44
8:CM:172:TYR:N	8:CM:204:VAL:O	2.32	0.44
9:CN:309:ARG:NH2	9:CN:339:SER:O	2.51	0.44
9:CN:346:PRO:O	9:CN:347:ASN:ND2	2.50	0.44
9:CP:309:ARG:NH2	9:CP:339:SER:O	2.51	0.44
14:D0:47:ARG:NH1	14:D0:47:ARG:O	2.44	0.44
9:DB:251:ARG:NH1	8:DC:105:ARG:HH12	2.16	0.44
8:DC:47:ASP:N	8:DC:47:ASP:OD1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DC:90:GLU:OE1	8:DC:121:ARG:NH1	2.50	0.44
9:DF:146:GLY:O	9:DF:149:THR:OG1	2.34	0.44
9:DF:368:ILE:HA	9:DF:368:ILE:HD12	1.77	0.44
9:DJ:323:MET:HE1	8:DK:224:TYR:CZ	2.52	0.44
8:DK:150:ALA:O	8:DK:154:MET:HG2	2.18	0.44
8:EA:209:ILE:HG22	8:EA:227:LEU:HD22	2.00	0.44
9:ED:274:THR:HB	9:ED:278:SER:HB2	2.00	0.44
9:EF:165:ASN:HB3	9:EF:200:TYR:HE2	1.83	0.44
9:EF:180:VAL:O	9:EF:184:ASN:ND2	2.50	0.44
9:EF:234:SER:O	9:EF:241:ARG:NH2	2.51	0.44
9:FB:12:CYS:O	9:FB:16:ILE:HG12	2.18	0.44
9:FB:311:LEU:HD23	9:FB:312:THR:N	2.33	0.44
8:FC:117:LEU:HD22	36:Y3:32:ILE:HD12	1.99	0.44
9:FD:138:SER:HA	9:FD:169:VAL:HB	2.00	0.44
8:FG:172:TYR:OH	8:FG:391:LEU:HD22	2.17	0.44
9:FH:86:ARG:HG3	9:FH:89:ASN:H	1.82	0.44
9:FH:146:GLY:O	9:FH:149:THR:OG1	2.35	0.44
9:FH:261:PRO:HG3	8:FI:406:HIS:CD2	2.53	0.44
9:FH:318:ARG:HD3	9:FH:358:PRO:HD3	2.00	0.44
9:FJ:253:LEU:HD23	9:FJ:253:LEU:HA	1.88	0.44
8:FK:263:PRO:HG3	9:FL:396:HIS:CD2	2.53	0.44
9:FL:249:ASP:N	9:FL:249:ASP:OD1	2.51	0.44
9:FL:324:LYS:HB2	8:FM:222:PRO:HD2	1.99	0.44
9:FN:152:ILE:O	9:FN:156:ARG:HG2	2.17	0.44
9:FN:302:ALA:HB3	9:FN:377:LEU:HD11	1.99	0.44
8:FO:358:GLN:NE2	8:FO:359:PRO:O	2.32	0.44
8:GA:116:ASP:OD1	8:GA:117:LEU:HD22	2.17	0.44
9:GD:228:LEU:O	9:GD:232:THR:HG23	2.17	0.44
8:GG:69:ASP:OD1	8:GG:70:LEU:N	2.51	0.44
8:GG:195:LEU:HD11	8:GG:428:LEU:HD22	2.00	0.44
8:GG:204:VAL:HG21	8:GG:302:MET:HE2	2.00	0.44
9:GH:202:ILE:HD13	9:GH:300:MET:SD	2.58	0.44
9:GL:171:PRO:HB3	9:GL:181:GLU:OE2	2.18	0.44
9:GL:306:ARG:HH11	36:Y2:91:GLY:HA3	1.83	0.44
8:GO:275:VAL:C	8:GO:276:ILE:HG13	2.42	0.44
9:HD:77:ARG:HD3	9:HD:90:PHE:CZ	2.53	0.44
8:HG:172:TYR:CE2	8:HG:391:LEU:HD11	2.53	0.44
9:HH:324:LYS:HD3	8:HI:210:TYR:HB3	1.98	0.44
8:HM:287:SER:O	8:HM:290:GLU:HG3	2.17	0.44
9:HN:249:ASP:H	9:HN:252:LYS:HB2	1.83	0.44
9:HN:306:ARG:HG2	9:HN:340:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HO:115:VAL:HG22	8:HO:152:LEU:HD11	2.00	0.44
17:I:263:GLU:H	31:W:88:GLU:HB3	1.83	0.44
8:IA:140:SER:HA	8:IA:171:ILE:H	1.83	0.44
8:IA:269:LEU:HD22	8:IA:303:VAL:HG21	2.00	0.44
8:IA:276:ILE:HD12	8:IA:276:ILE:HA	1.84	0.44
8:IE:246:GLY:HA2	8:IE:357:TYR:HD1	1.81	0.44
8:IG:133:GLN:HB3	8:IG:252:LEU:HD11	2.00	0.44
8:IG:339:ARG:HG3	8:IG:340:THR:HG23	1.99	0.44
9:IH:250:LEU:HA	9:IH:250:LEU:HD13	1.82	0.44
9:IJ:44:LEU:HD12	9:IJ:44:LEU:HA	1.89	0.44
8:IK:310:GLY:HA3	8:IK:383:ALA:HB2	1.99	0.44
9:IL:109:GLY:O	9:IL:113:VAL:HG13	2.18	0.44
9:IN:107:THR:OG1	9:IN:108:GLU:N	2.51	0.44
8:IO:51:THR:HG21	8:IO:243:ARG:HG2	1.99	0.44
9:IP:232:THR:OG1	9:IP:300:MET:HE1	2.18	0.44
19:J4:68:LEU:O	8:OK:221:ARG:NE	2.50	0.44
19:J4:106:PHE:HB3	9:OL:280:GLN:OE1	2.18	0.44
19:J5:123:MET:HE2	19:J5:123:MET:HA	2.00	0.44
9:JD:335:ASN:OD1	9:JD:335:ASN:N	2.50	0.44
8:JE:28:HIS:NE2	8:JE:48:SER:OG	2.48	0.44
8:JE:246:GLY:HA2	8:JE:357:TYR:CE1	2.52	0.44
8:JE:272:TYR:H	8:JE:302:MET:HE2	1.82	0.44
9:JF:84:ILE:HD12	9:JF:84:ILE:HG23	1.71	0.44
8:JG:88:HIS:CE1	8:JG:90:GLU:H	2.36	0.44
9:JJ:1:MET:HE3	9:JJ:2:ARG:H	1.82	0.44
9:JJ:44:LEU:HA	9:JJ:47:ILE:HG23	1.98	0.44
9:JJ:285:THR:OG1	9:JJ:287:PRO:HD2	2.18	0.44
8:JK:319:TYR:HB3	8:JK:323:VAL:HG21	1.99	0.44
9:JL:7:LEU:N	9:JL:134:GLN:O	2.32	0.44
8:JO:324:VAL:O	8:JO:328:VAL:HG23	2.18	0.44
9:JP:1:MET:HE3	9:JP:2:ARG:H	1.83	0.44
8:JQ:39:ASP:N	8:JQ:39:ASP:OD1	2.49	0.44
8:JQ:191:THR:HA	8:JQ:194:THR:HG22	2.00	0.44
13:K3:361:PHE:CD1	9:KL:362:LYS:HG3	2.52	0.44
8:KA:196:GLU:OE1	44:h1:129:SER:OG	2.36	0.44
8:KA:258:ASN:HB3	9:KB:179:VAL:HG23	1.99	0.44
9:KD:107:THR:OG1	41:b2:466:ARG:NH1	2.43	0.44
9:KD:181:GLU:HG2	9:KD:182:PRO:HD3	2.00	0.44
8:KE:174:ALA:HB3	8:KE:177:VAL:O	2.18	0.44
9:KF:28:HIS:HB3	9:KF:47:ILE:HD11	2.00	0.44
8:KI:220:GLU:OE1	8:KI:220:GLU:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LA:107:HIS:HA	8:LA:152:LEU:HD23	1.99	0.44
8:LA:440:VAL:HG21	44:h1:47:LEU:HA	2.00	0.44
9:LB:375:GLN:HG3	9:LB:379:LYS:CE	2.48	0.44
9:LD:62:ARG:NH1	9:LD:127:CYS:SG	2.91	0.44
9:LD:314:ALA:HB3	9:LD:368:ILE:HB	2.00	0.44
9:LH:334:GLN:NE2	9:LH:349:VAL:HG23	2.33	0.44
8:LK:206:ASN:HD21	50:LK:501:GTP:HN22	1.65	0.44
8:LK:312:TYR:CE2	8:LK:341:ILE:HG23	2.52	0.44
9:LL:211:CYS:SG	9:LL:212:PHE:N	2.91	0.44
8:MA:312:TYR:HE2	8:MA:341:ILE:HD12	1.81	0.44
8:MC:202:PHE:HE2	8:MC:378:LEU:HD13	1.82	0.44
8:ME:136:LEU:HD23	8:ME:136:LEU:HA	1.84	0.44
8:MG:180:ALA:HB3	8:MG:183:GLU:HB3	2.00	0.44
8:MG:395:PHE:CD2	8:MG:422:ARG:HD3	2.52	0.44
9:MH:321:MET:HE3	9:MH:321:MET:HB2	1.60	0.44
8:MI:326:LYS:HD3	9:MJ:220:PRO:HD2	1.99	0.44
8:MK:167:LEU:HD23	8:MK:202:PHE:HE2	1.83	0.44
9:ML:198:GLU:HA	9:ML:264:HIS:HB2	1.99	0.44
8:MM:33:ASP:HA	8:MM:85:GLN:HG2	1.99	0.44
8:NA:12:ALA:O	8:NA:16:ILE:HG22	2.17	0.44
8:NA:97:GLU:OE2	8:NA:110:ILE:HD12	2.18	0.44
8:NA:263:PRO:HG3	9:NB:396:HIS:CD2	2.53	0.44
8:NA:324:VAL:HG12	8:NA:326:LYS:H	1.83	0.44
9:NB:12:CYS:O	9:NB:16:ILE:HG12	2.17	0.44
8:NC:123:ARG:NE	36:Y4:180:PRO:O	2.41	0.44
9:ND:305:PRO:HA	9:ND:373:ALA:HB2	1.99	0.44
8:NE:165:SER:HB3	8:NE:256:GLN:HE22	1.83	0.44
9:NF:372:THR:HG21	9:NF:426:GLN:HB2	1.99	0.44
9:NH:105:HIS:CD2	9:NH:150:LEU:HB2	2.53	0.44
9:NH:162:ARG:HH21	9:NH:251:ARG:HH22	1.64	0.44
9:NJ:304:ASP:HB3	9:NJ:307:HIS:ND1	2.33	0.44
8:NK:7:ILE:HD11	8:NK:135:PHE:HD1	1.83	0.44
8:NK:188:ILE:HG13	8:NK:395:PHE:CG	2.53	0.44
9:NP:293:MET:HE3	9:NP:367:PHE:HB3	2.00	0.44
25:O5:486:SER:N	25:O5:489:ASP:OD2	2.51	0.44
17:O7:282:ILE:HD12	17:O7:283:PRO:HD2	1.99	0.44
17:O8:60:THR:O	17:O8:61:LYS:HD2	2.18	0.44
17:O9:70:LYS:NZ	30:U1:338:ASN:OD1	2.51	0.44
8:OC:6:SER:HB2	8:OC:65:ALA:HA	2.00	0.44
8:OC:172:TYR:HB2	8:OC:203:MET:CG	2.46	0.44
8:OC:274:PRO:HG2	8:OC:371:VAL:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OC:413:MET:HE1	8:OC:415:GLU:HA	1.99	0.44
8:OE:108:TYR:HA	8:OE:112:LYS:HE3	2.00	0.44
8:OG:60:LYS:HZ1	8:OG:86:LEU:HD12	1.83	0.44
8:OG:88:HIS:HE1	8:PG:280:LYS:HG3	1.83	0.44
9:OL:5:VAL:HB	9:OL:133:PHE:HD1	1.82	0.44
9:OL:20:PHE:CD1	9:OL:233:MET:HE2	2.51	0.44
9:OL:60:VAL:HG11	9:OL:86:ARG:HH21	1.82	0.44
9:OL:213:ARG:NH1	36:Y5:244:ASP:HA	2.33	0.44
8:OO:170:ALA:O	8:OO:203:MET:HA	2.18	0.44
8:OO:275:VAL:HG23	8:OO:368:LEU:HD11	1.99	0.44
27:P3:53:PHE:CD2	25:T:327:LYS:HE3	2.52	0.44
27:P4:110:TYR:OH	27:P4:154:PRO:O	2.24	0.44
27:P6:41:GLN:NE2	27:P6:45:ASP:OD2	2.50	0.44
9:PB:330:MET:HB2	9:PB:349:VAL:HG11	2.00	0.44
9:PD:324:LYS:HD3	8:PE:222:PRO:HD2	1.99	0.44
8:PK:23:LEU:O	8:PK:26:LEU:HD12	2.18	0.44
8:PK:387:ALA:HA	8:PK:390:ARG:HH11	1.81	0.44
8:PM:298:PRO:HG3	8:PM:308:ARG:HH21	1.82	0.44
8:PO:24:TYR:HA	8:PO:27:GLU:HB2	2.00	0.44
28:Q5:48:ARG:HB2	28:Q5:63:TRP:CZ2	2.52	0.44
9:QB:156:ARG:HG3	9:QB:195:ASN:HB3	2.00	0.44
9:QB:324:LYS:HZ1	8:QC:214:ARG:HD3	1.83	0.44
8:QC:24:TYR:HA	8:QC:27:GLU:OE2	2.18	0.44
9:QF:174:LYS:HE2	9:QF:174:LYS:HB2	1.82	0.44
8:QG:219:ILE:HB	8:QG:222:PRO:HG3	2.00	0.44
8:QG:310:GLY:HA3	8:QG:383:ALA:HB2	2.00	0.44
9:QH:330:MET:HB3	9:QH:349:VAL:HG11	2.00	0.44
8:QI:117:LEU:O	8:QI:121:ARG:HG2	2.18	0.44
8:QI:264:ARG:HH12	8:QI:428:LEU:HA	1.83	0.44
8:QK:52:PHE:CE2	8:QK:243:ARG:HD3	2.53	0.44
8:QM:325:PRO:HA	8:QM:328:VAL:HB	2.00	0.44
9:QP:222:TYR:HD1	52:QP:502:GDP:C6	2.35	0.44
29:R:25:ARG:HG2	29:S:376:SER:HB2	1.99	0.44
11:R4:413:ARG:NH2	11:R4:417:ARG:NH2	2.66	0.44
8:RG:259:LEU:HD21	8:RG:378:LEU:HG	2.00	0.44
8:RG:326:LYS:HE2	9:RH:220:PRO:HG2	2.00	0.44
8:RO:137:ILE:HD11	8:RO:168:GLU:HG2	2.00	0.44
29:S:125:ARG:NH2	29:S:144:GLU:OE1	2.50	0.44
29:S:366:GLU:HA	29:S:369:PHE:HB2	2.00	0.44
12:S0:141:HIS:HE1	12:S0:145:ASN:OD1	2.00	0.44
12:S3:378:THR:O	12:S3:382:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S8:347:PHE:HD2	12:S8:473:CYS:HB2	1.82	0.44
12:S9:331:VAL:O	12:S9:335:GLU:HG2	2.18	0.44
9:SH:270:PHE:CD1	9:SH:272:PRO:HD2	2.52	0.44
9:SJ:121:ARG:HG2	9:SJ:159:TYR:OH	2.18	0.44
8:SK:150:ALA:O	8:SK:154:MET:HG2	2.17	0.44
25:T:97:LEU:HB2	25:T:124:TYR:HB3	2.00	0.44
14:T0:19:VAL:HG11	14:T1:266:LEU:HD13	2.00	0.44
14:T0:61:TYR:HD1	14:T0:64:TYR:HE1	1.64	0.44
14:T1:41:LEU:HD12	14:T1:42:ALA:N	2.33	0.44
14:T3:135:LYS:HA	14:T3:138:LEU:HD12	2.00	0.44
14:T4:246:LYS:H	14:T4:246:LYS:HG2	1.59	0.44
14:T4:317:LYS:HB2	14:T4:317:LYS:HE2	1.80	0.44
8:TC:120:ASP:O	8:TC:124:LYS:HG3	2.18	0.44
8:TK:6:SER:HB3	8:TK:8:HIS:NE2	2.33	0.44
8:TK:49:PHE:HB2	8:TK:53:PHE:HD2	1.83	0.44
9:TN:31:ASP:OD2	9:TN:37:HIS:NE2	2.51	0.44
9:TN:86:ARG:HG2	9:TN:88:ASP:H	1.83	0.44
30:U5:170:MET:SD	30:U5:314:SER:OG	2.69	0.44
30:U7:89:ARG:HH22	30:U7:92:PRO:HD3	1.82	0.44
30:U8:74:ARG:HD3	30:U8:74:ARG:HA	1.83	0.44
30:U8:112:TRP:CH2	30:U9:440:THR:HG22	2.53	0.44
30:U8:197:ASN:ND2	30:U8:468:LYS:HD2	2.33	0.44
8:UA:150:ALA:O	8:UA:153:LEU:HD12	2.18	0.44
8:UA:220:GLU:OE1	8:UA:220:GLU:N	2.51	0.44
8:UA:252:LEU:HA	8:UA:255:PHE:CE1	2.53	0.44
9:UB:324:LYS:HD3	8:UC:210:TYR:CG	2.52	0.44
9:UD:7:LEU:HB2	9:UD:135:LEU:HB2	1.99	0.44
9:UD:39:ASP:OD1	9:UD:39:ASP:N	2.36	0.44
9:UH:4:ILE:HB	9:UH:50:TYR:HE1	1.82	0.44
9:UH:47:ILE:HG12	9:UH:51:TYR:HB2	2.00	0.44
9:UL:68:LEU:HD23	9:UL:68:LEU:HA	1.89	0.44
25:V:337:ILE:HA	25:V:337:ILE:HD12	1.63	0.44
30:V1:118:GLY:O	30:V1:122:ARG:N	2.47	0.44
30:V3:450:ARG:HD2	30:V4:102:GLN:OE1	2.18	0.44
30:V7:227:ASP:OD1	30:V7:230:ARG:NH1	2.51	0.44
30:V7:265:GLU:HG2	30:V7:269:ASN:OD1	2.17	0.44
30:V8:210:ASN:HA	30:V8:213:LYS:HG2	2.00	0.44
30:V9:343:PHE:HA	30:V9:346:ARG:HD2	1.99	0.44
9:VF:152:ILE:HA	9:VF:155:ILE:HG12	2.00	0.44
9:VJ:164:MET:HE2	9:VJ:196:THR:HA	1.99	0.44
8:VM:27:GLU:HG2	8:VM:361:THR:OG1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VM:332:ILE:HD11	8:VM:351:PHE:CG	2.53	0.44
9:VN:175:VAL:N	9:VN:205:GLU:OE2	2.50	0.44
30:W2:403:PRO:O	30:W2:404:ASN:C	2.60	0.44
30:W6:143:GLY:H	30:W6:145:ARG:HH21	1.66	0.44
8:WA:279:GLU:N	8:WA:279:GLU:OE1	2.51	0.44
9:WB:313:VAL:HG12	9:WB:349:VAL:HG13	2.00	0.44
9:WB:350:LYS:HZ3	8:WC:180:ALA:HA	1.83	0.44
8:WG:53:PHE:HB3	8:WG:61:HIS:HB3	1.99	0.44
9:WL:257:MET:SD	9:WL:312:THR:OG1	2.64	0.44
9:WL:406:MET:N	9:WL:406:MET:HE2	2.33	0.44
9:WN:372:THR:HA	9:WN:422:TYR:CE1	2.48	0.44
8:WO:83:TYR:HB3	8:WO:86:LEU:HB3	2.00	0.44
9:WP:310:TYR:CD1	9:WP:371:SER:HB2	2.53	0.44
34:X6:74:HIS:HB2	34:X6:91:GLU:HB3	2.00	0.44
34:X7:40:ILE:HD12	34:X7:40:ILE:HA	1.93	0.44
34:X7:196:TRP:HH2	34:X7:224:GLN:NE2	2.15	0.44
35:XA:94:LEU:HB2	35:XA:152:LEU:HD21	2.00	0.44
35:XE:178:PRO:HB2	35:XE:180:GLU:OE1	2.17	0.44
35:XF:72:LYS:HD2	37:YF:62:ARG:NE	2.33	0.44
35:XH:174:GLU:HA	35:XH:177:LEU:HG	1.99	0.44
37:YF:185:LYS:HA	37:YF:209:ILE:HD12	2.00	0.44
37:YG:93:LEU:HA	37:YG:118:MET:HE1	2.00	0.44
31:Z:31:ASN:HD22	31:Z:31:ASN:C	2.22	0.44
31:Z:95:GLU:N	31:Z:95:GLU:OE2	2.51	0.44
17:Z4:254:PHE:HB3	17:Z4:255:ARG:NH2	2.33	0.44
39:a:202:LYS:NZ	39:b:530:LEU:HB2	2.33	0.44
40:a2:111:TYR:CE1	40:a2:113:PRO:HA	2.53	0.44
39:a6:86:MET:HE3	39:a6:88:ARG:HB2	2.00	0.44
39:b:315:ILE:HA	39:b:318:ILE:HD12	1.99	0.44
39:c:219:LYS:HA	39:c:222:ASP:OD1	2.18	0.44
39:c:482:VAL:HA	39:c:485:ASN:HB3	1.98	0.44
39:d:501:ARG:O	39:d:505:GLU:HG2	2.18	0.44
42:g:489:ASP:N	42:g:496:ASN:OD1	2.50	0.44
45:i1:4:ASN:HD21	45:i1:26:ARG:HD3	1.83	0.44
48:r:65:LYS:HA	48:r:65:LYS:HD2	1.72	0.44
1:0:32:SER:HA	1:0:35:LEU:HB2	1.99	0.43
2:2:435:GLU:OE2	9:HN:55:THR:OG1	2.23	0.43
3:3:97:ARG:HH11	4:6:306:VAL:HG12	1.83	0.43
3:4:483:CYS:O	3:4:487:ILE:HG12	2.18	0.43
4:5:30:ALA:HB1	4:5:92:LEU:HD22	2.00	0.43
9:AB:6:HIS:HB2	9:AB:134:GLN:HE21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AE:414:GLU:OE2	8:AE:415:GLU:N	2.51	0.43
8:AG:7:ILE:HD12	8:AG:137:ILE:HG13	1.99	0.43
8:AG:352:LYS:HD2	9:AH:177:ASP:O	2.18	0.43
8:AI:168:GLU:O	8:AI:201:ALA:HA	2.18	0.43
8:AO:139:HIS:O	8:AO:170:ALA:HA	2.18	0.43
9:AP:36:TYR:CG	9:AP:44:LEU:HD22	2.53	0.43
11:B3:204:ASN:O	11:B3:207:ARG:HG2	2.18	0.43
11:B3:376:ASP:OD1	11:B3:380:LYS:NZ	2.50	0.43
11:B4:206:THR:HB	11:B5:339:ILE:HG12	2.00	0.43
11:B5:308:MET:HA	11:B5:308:MET:HE3	1.99	0.43
11:B5:368:LYS:HB3	11:B5:368:LYS:HE2	1.79	0.43
9:BB:207:LEU:HD12	9:BB:225:LEU:HD23	2.00	0.43
9:BB:357:PRO:HD2	17:H:270:TRP:CD1	2.53	0.43
9:BD:337:ASN:HB3	9:BD:340:TYR:HD2	1.83	0.43
8:BE:114:ILE:O	8:BE:118:VAL:HG23	2.18	0.43
8:BE:286:LEU:HD23	8:BE:286:LEU:HA	1.78	0.43
8:BE:326:LYS:NZ	9:BF:218:THR:O	2.51	0.43
8:BG:182:VAL:HG22	8:BG:404:PHE:CD1	2.53	0.43
9:BH:68:LEU:HA	9:BH:68:LEU:HD13	1.76	0.43
9:BJ:20:PHE:O	9:BJ:24:ILE:HG12	2.18	0.43
8:BO:153:LEU:O	8:BO:157:LEU:HD23	2.18	0.43
9:BP:118:ASP:HA	9:BP:121:ARG:HH11	1.83	0.43
12:C0:86:ASN:OD1	12:C0:87:ARG:N	2.39	0.43
12:C1:145:ASN:OD1	12:C2:419:ARG:NH1	2.49	0.43
12:C3:230:GLN:HB3	12:C3:234:ARG:HH21	1.83	0.43
12:C4:139:GLN:NE2	12:C4:276:ASN:OD1	2.34	0.43
12:C4:167:MET:HE2	12:C4:167:MET:HA	2.00	0.43
12:C4:243:GLN:NE2	12:C4:247:ASP:OD1	2.50	0.43
9:CB:174:LYS:HA	9:CB:174:LYS:HD2	1.74	0.43
8:CC:111:GLY:O	8:CC:115:VAL:HG23	2.18	0.43
9:CD:154:LYS:HE3	9:CD:154:LYS:HB3	1.87	0.43
8:CM:90:GLU:HG2	8:CM:121:ARG:NH1	2.33	0.43
9:CN:216:LYS:HD2	22:M4:191:ARG:NH2	2.33	0.43
9:CN:321:MET:SD	9:CN:321:MET:N	2.91	0.43
8:CQ:288:VAL:HG13	8:CQ:319:TYR:HE2	1.83	0.43
14:D1:135:LYS:HE2	28:Q1:136:CYS:SG	2.58	0.43
14:D1:221:VAL:HG22	14:D2:364:PRO:HD2	1.99	0.43
14:D5:378:LEU:O	14:D5:382:GLU:HG2	2.17	0.43
9:DD:134:GLN:HG3	9:DD:167:PHE:HE2	1.83	0.43
9:DD:386:THR:HG23	9:DD:390:ARG:HH11	1.81	0.43
8:DE:125:LEU:HD12	8:DE:125:LEU:HA	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DF:167:PHE:CE2	9:DF:233:MET:HG3	2.53	0.43
9:DH:133:PHE:HD2	9:DH:164:MET:HE1	1.83	0.43
8:DI:7:ILE:HD11	8:DI:137:ILE:HB	2.00	0.43
9:DJ:313:VAL:HG13	9:DJ:367:PHE:HE1	1.83	0.43
8:DK:319:TYR:N	8:DK:354:GLY:O	2.45	0.43
9:DP:170:VAL:HG11	9:DP:377:LEU:HD11	2.00	0.43
15:E:176:SER:HA	15:E:183:GLU:HG3	2.00	0.43
9:EB:270:PHE:HD2	9:EB:273:LEU:HD21	1.83	0.43
9:EF:320:ARG:N	9:EF:363:MET:HE1	2.32	0.43
8:EG:167:LEU:HD23	8:EG:202:PHE:HE2	1.83	0.43
8:EI:46:ASP:OD2	8:EI:48:SER:OG	2.27	0.43
8:EM:40:LYS:HE2	31:Z:466:PHE:HD2	1.81	0.43
8:EM:89:PRO:HD2	8:FM:280:LYS:HZ3	1.83	0.43
8:EM:99:ALA:HA	8:EM:105:ARG:HD3	1.99	0.43
8:EM:254:GLU:HG2	9:EN:98:GLY:HA2	2.00	0.43
8:EO:150:ALA:O	8:EO:153:LEU:HG	2.18	0.43
8:EO:338:LYS:HG3	8:EO:341:ILE:HB	2.00	0.43
8:FA:267:PHE:HD2	8:FA:432:TYR:OH	2.01	0.43
9:FB:276:ARG:HD3	9:FB:276:ARG:H	1.83	0.43
8:FE:66:VAL:HG12	8:FE:68:VAL:HG13	1.99	0.43
8:FG:360:PRO:O	8:FG:370:LYS:NZ	2.37	0.43
9:FH:293:MET:HE3	9:FH:293:MET:C	2.43	0.43
8:FI:258:ASN:HD21	9:FJ:179:VAL:H	1.66	0.43
8:FI:265:ILE:HG23	8:FI:432:TYR:CZ	2.53	0.43
9:FL:257:MET:SD	9:FL:314:ALA:HB2	2.58	0.43
8:FM:352:LYS:HE2	9:FN:178:THR:HA	1.99	0.43
16:G:34:ASN:HD21	9:GJ:227:HIS:CD2	2.36	0.43
8:GA:340:THR:OG1	36:Y3:69:ARG:HD2	2.18	0.43
8:GA:377:MET:HE3	8:GA:378:LEU:N	2.27	0.43
9:GB:350:LYS:HZ2	8:GC:180:ALA:HA	1.82	0.43
9:GD:148:GLY:O	9:GD:152:ILE:HG13	2.18	0.43
9:GD:270:PHE:O	9:GD:298:ASN:ND2	2.51	0.43
8:GG:2:ARG:H	8:GG:2:ARG:HG3	1.54	0.43
8:GG:11:GLN:HE21	8:GG:15:GLN:HE22	1.65	0.43
8:GI:26:LEU:HD13	8:GI:363:VAL:HG12	2.00	0.43
8:GI:104:ALA:HB1	8:GI:411:GLU:OE1	2.18	0.43
8:GK:69:ASP:OD1	8:GK:70:LEU:N	2.51	0.43
8:GK:101:ASN:HD22	8:GK:143:GLY:HA2	1.82	0.43
8:GM:255:PHE:HA	8:GM:258:ASN:OD1	2.18	0.43
8:GO:36:MET:HE2	8:GO:36:MET:HA	1.99	0.43
9:HB:124:ALA:HB2	9:HB:133:PHE:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:90:GLU:H	8:HC:90:GLU:CD	2.18	0.43
9:HD:183:TYR:HB3	9:HD:398:TYR:HE2	1.82	0.43
9:HD:310:TYR:HA	9:HD:371:SER:HB2	1.99	0.43
9:HF:101:TRP:CD1	9:HF:146:GLY:HA2	2.53	0.43
9:HH:363:MET:HE2	9:HH:363:MET:HB2	1.89	0.43
8:HK:88:HIS:N	8:HK:91:GLN:OE1	2.51	0.43
8:HK:201:ALA:O	8:HK:268:PRO:HD2	2.18	0.43
9:HN:54:ALA:HB2	9:HN:60:VAL:HG13	1.99	0.43
9:HN:242:PHE:HB3	9:HN:356:ILE:HD12	1.99	0.43
9:HN:309:ARG:HG3	9:HN:426:GLN:HG3	2.00	0.43
8:HO:2:ARG:HA	8:HO:133:GLN:HE21	1.83	0.43
17:I:26:GLN:HB2	17:I:42:LEU:HD11	1.99	0.43
18:I1:126:GLN:NE2	9:JN:276:ARG:HA	2.32	0.43
9:ID:87:PRO:HD3	8:JE:283:HIS:CD2	2.52	0.43
8:II:33:ASP:OD1	8:II:34:GLY:N	2.51	0.43
9:IL:324:LYS:HE3	9:IL:324:LYS:HB3	1.51	0.43
8:IM:105:ARG:O	8:IM:110:ILE:HG22	2.17	0.43
9:IN:324:LYS:HB2	8:IO:210:TYR:CD2	2.53	0.43
8:IO:139:HIS:O	8:IO:170:ALA:HA	2.17	0.43
8:IO:259:LEU:HD12	8:IO:259:LEU:HA	1.82	0.43
19:J2:166:ASN:C	19:J2:167:MET:HE2	2.43	0.43
19:J2:174:ARG:NH1	9:OF:218:THR:OG1	2.51	0.43
19:J2:277:MET:HE2	8:LG:433:GLU:HA	1.99	0.43
19:J4:76:CYS:HB3	8:NK:84:ARG:CZ	2.48	0.43
19:J5:71:PRO:CB	8:OO:218:ASP:OD2	2.66	0.43
9:JD:226:ASN:OD1	52:JD:502:GDP:N1	2.48	0.43
9:JD:375:GLN:NE2	9:JD:419:VAL:O	2.51	0.43
9:JF:148:GLY:O	9:JF:152:ILE:HG13	2.18	0.43
9:JF:231:ALA:HB1	9:JF:270:PHE:CZ	2.53	0.43
9:JF:255:VAL:HA	8:JG:407:TRP:CE2	2.53	0.43
8:JM:236:SER:HA	8:JM:243:ARG:HH12	1.83	0.43
17:K:27:LEU:HD12	17:K:28:ARG:N	2.33	0.43
13:K3:310:MET:HE2	13:K3:310:MET:N	2.33	0.43
8:KA:167:LEU:HD23	8:KA:202:PHE:HE2	1.83	0.43
9:KD:31:ASP:OD1	9:KD:35:THR:N	2.51	0.43
9:KD:173:PRO:C	9:KD:175:VAL:H	2.25	0.43
8:KE:413:MET:HB2	8:KE:413:MET:HE3	1.56	0.43
9:KF:191:GLN:HE22	41:b3:249:ASN:ND2	2.16	0.43
8:KI:64:ARG:HG2	8:KI:125:LEU:HD22	1.99	0.43
8:KI:172:TYR:CD2	8:KI:173:PRO:HD2	2.53	0.43
8:KK:150:ALA:O	8:KK:154:MET:HG2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KL:138:SER:HA	9:KL:169:VAL:HB	2.00	0.43
9:KN:174:LYS:HB3	9:KN:205:GLU:OE2	2.17	0.43
9:KP:50:TYR:HE2	9:KP:241:ARG:HD3	1.83	0.43
9:LB:406:MET:O	9:LB:410:GLU:HG2	2.17	0.43
8:LC:2:ARG:HB3	8:LC:242:LEU:HD13	1.99	0.43
8:LC:339:ARG:HE	8:LC:339:ARG:HB2	1.63	0.43
9:LD:418:LEU:O	9:LD:422:TYR:N	2.46	0.43
9:LH:293:MET:HE3	9:LH:293:MET:O	2.18	0.43
8:LI:168:GLU:O	8:LI:201:ALA:HA	2.19	0.43
8:LI:174:ALA:HB3	8:LI:177:VAL:O	2.18	0.43
8:LI:430:LYS:HE2	8:LI:430:LYS:HB2	1.76	0.43
9:LJ:146:GLY:O	9:LJ:149:THR:OG1	2.36	0.43
9:LL:44:LEU:HD13	9:LL:47:ILE:HD12	1.99	0.43
9:LL:180:VAL:O	9:LL:184:ASN:ND2	2.51	0.43
8:LM:141:PHE:HB2	8:LM:173:PRO:HD3	2.00	0.43
8:LO:210:TYR:CE1	8:LO:227:LEU:HD11	2.53	0.43
9:LP:60:VAL:HG11	9:MP:281:TYR:HB3	1.99	0.43
22:M4:104:ASN:O	22:M4:107:THR:OG1	2.32	0.43
8:MC:69:ASP:OD1	8:MC:70:LEU:N	2.50	0.43
8:MG:249:ASN:H	9:MH:11:GLN:HE22	1.64	0.43
9:MH:25:SER:OG	9:MH:51:TYR:OH	2.29	0.43
9:ML:334:GLN:NE2	9:ML:349:VAL:HG23	2.32	0.43
8:MM:265:ILE:HG23	8:MM:432:TYR:CZ	2.53	0.43
17:N:41:GLN:O	17:N:45:ASP:HB2	2.18	0.43
9:NB:121:ARG:HH22	9:NB:155:ILE:HA	1.82	0.43
8:NC:206:ASN:HB3	8:NC:210:TYR:CE1	2.53	0.43
9:ND:213:ARG:HH21	9:ND:297:LYS:HD3	1.83	0.43
9:NF:226:ASN:HA	9:NF:229:VAL:HG22	2.00	0.43
8:NM:79:ARG:HH22	8:NM:94:THR:HG21	1.83	0.43
8:NM:276:ILE:HD12	8:NM:281:ALA:HA	1.99	0.43
8:NM:297:GLU:O	8:NM:301:GLN:NE2	2.29	0.43
9:NN:165:ASN:HB3	9:NN:198:GLU:OE2	2.18	0.43
25:O5:210:ASP:O	25:O5:214:GLN:HG2	2.18	0.43
25:O6:52:LEU:H	25:O6:52:LEU:HD23	1.81	0.43
8:OA:36:MET:HG3	8:OA:61:HIS:NE2	2.33	0.43
8:OA:135:PHE:CE2	8:OA:157:LEU:HD21	2.53	0.43
9:OD:289:LEU:HD12	9:OD:363:MET:CG	2.48	0.43
8:OE:6:SER:HB3	8:OE:8:HIS:CD2	2.53	0.43
8:OG:186:ASN:ND2	8:OG:408:TYR:OH	2.51	0.43
9:OH:144:GLY:N	52:OH:502:GDP:O1B	2.29	0.43
9:OH:337:ASN:HD22	36:Y4:89:ILE:CD1	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OK:175:PRO:HB3	8:OK:390:ARG:CZ	2.48	0.43
9:OL:167:PHE:CE2	9:OL:233:MET:HG2	2.53	0.43
9:OL:247:ASN:H	8:OM:11:GLN:HE22	1.65	0.43
8:OM:191:THR:HA	8:OM:194:THR:HG22	1.98	0.43
8:OM:263:PRO:HG3	9:ON:396:HIS:CD2	2.53	0.43
8:OO:426:ALA:O	8:OO:430:LYS:HG2	2.18	0.43
27:P4:136:MET:N	27:P4:136:MET:SD	2.90	0.43
9:PB:131:GLN:HE22	9:PB:249:ASP:HB2	1.83	0.43
9:PB:213:ARG:HE	9:PB:297:LYS:HD3	1.82	0.43
8:PE:49:PHE:HD2	8:PE:53:PHE:HB2	1.83	0.43
9:PF:147:MET:HE1	9:PF:151:LEU:HD11	1.99	0.43
9:PF:362:LYS:HD3	9:PF:362:LYS:HA	1.74	0.43
8:PI:209:ILE:HA	8:PI:212:ILE:HG22	2.00	0.43
9:PL:266:PHE:HE1	9:PL:370:ASN:HB2	1.82	0.43
28:Q3:52:THR:HB	28:Q3:53:PRO:HD2	2.00	0.43
8:QC:210:TYR:HB3	8:QC:214:ARG:HH12	1.83	0.43
9:QF:257:MET:SD	9:QF:312:THR:OG1	2.71	0.43
9:QH:135:LEU:HD12	9:QH:136:THR:N	2.32	0.43
9:QJ:73:MET:HA	9:QJ:76:VAL:HB	2.00	0.43
9:QL:261:PRO:HG3	8:QM:406:HIS:CD2	2.53	0.43
9:QL:318:ARG:HD3	9:QL:358:PRO:HD3	2.00	0.43
8:QM:5:ILE:HD13	8:QM:125:LEU:HB3	2.00	0.43
8:QM:203:MET:N	8:QM:203:MET:SD	2.91	0.43
8:QO:332:ILE:HA	8:QO:335:ILE:HD12	2.00	0.43
11:R3:309:MET:HE1	11:R4:194:LEU:HD23	2.00	0.43
11:R4:286:THR:O	11:R4:290:ILE:HG22	2.18	0.43
11:R4:413:ARG:HD2	11:R4:413:ARG:HA	1.66	0.43
8:RC:30:ILE:HD13	8:RC:36:MET:SD	2.58	0.43
8:RE:337:THR:O	8:RE:337:THR:OG1	2.34	0.43
8:RG:166:LYS:N	8:RG:199:ASP:OD2	2.40	0.43
8:RI:14:VAL:HG22	8:RI:67:PHE:HD2	1.83	0.43
9:RJ:404:ASP:OD1	9:RJ:404:ASP:N	2.38	0.43
9:RP:182:PRO:O	9:RP:186:THR:HG23	2.18	0.43
9:RP:362:LYS:HE2	9:RP:363:MET:HG2	2.00	0.43
29:S:280:GLN:O	29:S:284:ILE:HG13	2.18	0.43
12:S0:183:ARG:NH1	12:S0:187:GLU:HG2	2.33	0.43
12:S2:192:LEU:HD13	12:S2:226:ILE:HG21	1.99	0.43
12:S6:164:LEU:HD23	14:T3:247:PHE:CE2	2.53	0.43
12:S8:222:GLU:O	12:S8:226:ILE:HG12	2.18	0.43
12:S8:457:HIS:O	12:S8:461:VAL:HG23	2.18	0.43
8:SA:311:LYS:H	8:SA:382:THR:HG22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SB:284:LEU:HB3	9:SB:362:LYS:NZ	2.31	0.43
8:SC:51:THR:HG21	8:SC:243:ARG:HG2	1.99	0.43
8:SC:154:MET:HE1	8:SC:168:GLU:CD	2.42	0.43
9:SD:293:MET:HE3	9:SD:293:MET:HB3	1.82	0.43
9:SD:313:VAL:O	9:SD:350:LYS:N	2.46	0.43
8:SE:280:LYS:HA	8:SE:280:LYS:HD2	1.72	0.43
9:SF:330:MET:SD	9:SF:331:LEU:N	2.91	0.43
8:SG:370:LYS:HA	8:SG:370:LYS:HD2	1.82	0.43
9:SH:235:GLY:HA2	9:SH:318:ARG:HH12	1.83	0.43
9:SL:279:GLN:H	9:SL:279:GLN:HG2	1.64	0.43
8:SM:332:ILE:HD11	8:SM:353:VAL:HG21	1.99	0.43
14:T2:363:ARG:HB2	14:T2:368:LEU:HB2	1.99	0.43
14:T3:376:ARG:CZ	30:W0:443:LEU:HD12	2.49	0.43
9:TB:131:GLN:NE2	9:TB:132:GLY:O	2.51	0.43
8:TC:19:ALA:O	8:TC:23:LEU:HD22	2.17	0.43
8:TC:91:GLN:HA	8:TC:121:ARG:HD3	2.00	0.43
8:TI:88:HIS:CD2	8:TI:90:GLU:HB3	2.53	0.43
8:TI:195:LEU:HD13	8:TI:428:LEU:HD11	2.00	0.43
8:TI:248:LEU:HD21	9:TJ:222:TYR:HE2	1.83	0.43
8:TM:215:ARG:NH2	8:TM:300:ASN:OD1	2.38	0.43
9:TN:324:LYS:HE2	9:TN:324:LYS:HB3	1.85	0.43
25:U:97:LEU:HD22	25:U:190:THR:HA	2.00	0.43
25:U:239:ASP:OD1	25:U:240:LYS:N	2.50	0.43
30:U0:410:ASP:N	30:U0:410:ASP:OD1	2.50	0.43
30:U1:298:LYS:HD2	30:U1:298:LYS:HA	1.77	0.43
30:U2:92:PRO:HD2	30:U2:93:ARG:HH11	1.83	0.43
30:U3:177:LEU:HD23	30:U3:177:LEU:HA	1.84	0.43
30:U5:277:ILE:HD11	30:U6:387:TYR:CE2	2.53	0.43
30:U7:122:ARG:HH22	30:U7:123:ILE:HG13	1.82	0.43
30:U7:123:ILE:HG22	30:U7:127:LYS:NZ	2.33	0.43
30:U7:339:THR:HB	30:U7:473:ARG:HH21	1.83	0.43
30:U8:280:PHE:CE2	30:U9:394:THR:HA	2.52	0.43
30:U8:287:ASP:HB3	30:U9:409:ARG:HH21	1.82	0.43
9:UF:344:TRP:HA	8:UG:397:LEU:HD12	1.98	0.43
30:V0:367:GLU:O	30:V0:370:GLN:HG2	2.17	0.43
30:V2:403:PRO:HD2	30:V2:406:GLU:HB2	2.00	0.43
30:V3:173:LEU:HD22	30:V3:318:ARG:HG3	2.00	0.43
30:V3:458:LYS:NZ	30:V4:95:TRP:HE1	2.15	0.43
30:V6:221:LEU:HD21	30:V6:332:MET:HA	1.99	0.43
30:V6:376:MET:HE3	30:V6:376:MET:HB3	1.89	0.43
30:V6:433:ARG:HH11	30:V6:433:ARG:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VA:280:LYS:O	8:VA:284:GLU:HG2	2.18	0.43
9:VF:30:ILE:HD11	9:VF:47:ILE:HD11	1.99	0.43
8:VG:69:ASP:O	8:VG:94:THR:HA	2.18	0.43
8:VG:179:THR:HG1	50:VG:501:GTP:HO3'	1.66	0.43
9:VH:356:ILE:HD13	9:VH:356:ILE:HA	1.81	0.43
8:VK:90:GLU:OE2	8:VK:121:ARG:NH1	2.51	0.43
8:VK:402:ARG:HD2	8:VK:405:VAL:HG21	2.00	0.43
9:VN:133:PHE:O	9:VN:164:MET:HA	2.18	0.43
9:VN:294:PHE:CE2	9:VN:333:VAL:HG11	2.53	0.43
8:VO:136:LEU:HD12	8:VO:138:PHE:HE1	1.83	0.43
31:W:246:ARG:HH22	31:W:380:PRO:HD3	1.83	0.43
31:W:606:TYR:O	31:W:733:VAL:HG23	2.18	0.43
31:W:653:LEU:HD11	31:W:658:ILE:HB	1.99	0.43
31:W:659:ARG:HE	31:W:659:ARG:HB2	1.59	0.43
30:W0:188:LEU:HD11	30:W0:223:LYS:HE2	1.99	0.43
30:W0:440:THR:O	30:W0:444:LEU:HG	2.18	0.43
30:W4:49:ASN:HA	30:W4:52:ARG:HD3	2.00	0.43
30:W4:160:LEU:O	30:W4:164:LEU:HD22	2.18	0.43
30:W6:376:MET:H	30:W6:376:MET:HE3	1.82	0.43
8:WA:52:PHE:CZ	8:WA:239:THR:HG21	2.53	0.43
8:WC:169:PHE:HA	8:WC:202:PHE:HB2	2.00	0.43
8:WK:368:LEU:HD23	8:WK:368:LEU:HA	1.85	0.43
8:WM:209:ILE:HD13	8:WM:209:ILE:HA	1.77	0.43
9:WP:21:TRP:CE3	9:WP:24:ILE:HD11	2.53	0.43
33:X4:362:TRP:CG	33:X4:363:THR:N	2.83	0.43
34:X7:29:ALA:O	34:X7:37:THR:OG1	2.23	0.43
34:X7:127:HIS:O	34:X7:191:LYS:NZ	2.47	0.43
35:XB:96:ASP:OD1	35:XB:96:ASP:N	2.50	0.43
35:XG:37:ILE:HD11	35:XG:161:ARG:NH1	2.33	0.43
35:XG:96:ASP:N	35:XG:96:ASP:OD1	2.49	0.43
31:Y:543:SER:HA	31:Y:601:THR:HG21	2.00	0.43
36:Y1:67:GLY:HA2	36:Y1:68:PRO:HD3	1.80	0.43
37:YB:164:GLU:OE2	37:YB:164:GLU:N	2.50	0.43
40:a2:11:LEU:N	40:a2:12:PRO:CD	2.82	0.43
39:a6:113:LYS:HD2	43:h:196:VAL:HG22	1.99	0.43
41:b3:199:LEU:HD23	41:b3:199:LEU:HA	1.84	0.43
39:c:130:ALA:O	39:c:134:GLU:HG2	2.18	0.43
42:e:377:CYS:SG	42:e:391:SER:HB2	2.58	0.43
42:g:529:TRP:CD1	42:g:536:VAL:HG13	2.53	0.43
44:h4:49:GLN:CA	44:h4:49:GLN:HE21	2.30	0.43
46:i2:1335:GLN:NE2	46:i2:1372:LEU:HA	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:i3:1331:ARG:NH1	46:i3:1378:GLU:OE2	2.50	0.43
43:k:128:LYS:HG2	43:k:129:ARG:H	1.83	0.43
45:m:55:ARG:O	45:m:57:LYS:NZ	2.32	0.43
47:o:48:GLU:O	47:o:52:ILE:HG12	2.18	0.43
47:o:117:ASP:O	47:o:121:GLU:HG2	2.18	0.43
47:o:177:LYS:HD3	47:o:180:GLU:HB3	2.00	0.43
47:p:160:LYS:HE3	47:p:160:LYS:HB3	1.88	0.43
49:y:78:TYR:CE2	49:y:98:ALA:HA	2.53	0.43
2:2:367:GLN:O	2:2:370:LYS:HG2	2.18	0.43
2:2:497:ALA:N	4:j1:350:GLU:OE2	2.45	0.43
3:3:312:LYS:HE3	3:3:312:LYS:HB3	1.64	0.43
3:4:388:GLN:HA	3:4:391:ASN:ND2	2.33	0.43
7:A3:5:LEU:HD12	33:X4:244:PRO:HG2	1.99	0.43
7:A4:4:LEU:HD11	33:X4:342:LEU:HD11	2.00	0.43
8:AC:40:LYS:HE2	8:AC:42:ILE:HG23	1.99	0.43
8:AC:66:VAL:HG12	8:AC:68:VAL:HG13	2.00	0.43
8:AC:79:ARG:NH2	8:AC:92:LEU:O	2.51	0.43
9:AF:122:LYS:HE2	9:AF:122:LYS:HB3	1.56	0.43
9:AF:318:ARG:HE	9:AF:318:ARG:HB3	1.64	0.43
8:AG:217:LEU:HD21	8:AG:275:VAL:HB	2.00	0.43
9:AH:377:LEU:HA	9:AH:380:ARG:HE	1.82	0.43
8:AK:395:PHE:CE2	8:AK:422:ARG:HB2	2.53	0.43
9:AL:3:GLU:OE1	9:AL:3:GLU:N	2.50	0.43
9:AL:356:ILE:HD13	9:AL:356:ILE:HA	1.87	0.43
8:AM:295:CYS:HB3	8:AM:377:MET:CE	2.47	0.43
9:AN:287:PRO:O	9:AN:291:GLN:HG2	2.18	0.43
8:AO:263:PRO:HD2	35:XH:116:PRO:HG2	2.00	0.43
9:AP:80:PRO:HG2	33:X5:119:LEU:HD11	2.00	0.43
10:B:32:ASN:CG	10:B:36:ARG:HH12	2.26	0.43
11:B1:11:ARG:HA	11:B1:11:ARG:HD2	1.86	0.43
11:B1:53:ILE:HD11	11:B2:307:LYS:CD	2.48	0.43
11:B3:31:GLN:CD	11:B4:369:HIS:HD1	2.25	0.43
8:BC:46:ASP:OD2	8:BC:48:SER:OG	2.29	0.43
9:BD:5:VAL:HB	9:BD:133:PHE:HD1	1.82	0.43
8:BE:124:LYS:HE2	8:BE:124:LYS:HB2	1.79	0.43
9:BH:165:ASN:OD1	9:BH:165:ASN:N	2.51	0.43
9:BJ:39:ASP:OD1	9:BJ:39:ASP:N	2.41	0.43
8:BK:88:HIS:NE2	8:CK:284:GLU:OE2	2.47	0.43
8:BK:353:VAL:HB	9:BL:177:ASP:HB2	1.99	0.43
9:BN:257:MET:HE2	9:BN:257:MET:HB2	1.82	0.43
8:BO:254:GLU:CD	9:BP:98:GLY:HA2	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BO:269:LEU:HD22	8:BO:303:VAL:HG11	2.00	0.43
9:BP:273:LEU:O	9:BP:292:GLN:NE2	2.51	0.43
9:BP:318:ARG:HD3	9:BP:358:PRO:HD3	2.00	0.43
12:C2:428:ASP:O	12:C2:432:GLN:HG2	2.18	0.43
12:C3:91:PHE:CE1	12:C3:93:ARG:HG3	2.53	0.43
9:CF:8:GLN:HG2	9:CF:14:ASN:HA	2.00	0.43
8:CG:313:MET:SD	8:CG:435:VAL:HG11	2.57	0.43
9:CJ:170:VAL:HG11	9:CJ:377:LEU:HD21	2.00	0.43
9:CJ:257:MET:HA	9:CJ:257:MET:HE2	1.99	0.43
9:CJ:326:VAL:HG23	9:CJ:330:MET:HE3	2.00	0.43
8:CK:326:LYS:H	8:CK:326:LYS:HG2	1.62	0.43
9:CN:8:GLN:HG2	9:CN:14:ASN:HA	2.00	0.43
8:CO:101:ASN:HD21	8:CO:180:ALA:HB1	1.83	0.43
8:CQ:167:LEU:HD23	8:CQ:202:PHE:HE2	1.83	0.43
14:D1:288:ASP:OD2	32:X0:204:TYR:OH	2.37	0.43
8:DC:11:GLN:HG3	8:DC:15:GLN:HE21	1.83	0.43
8:DC:347:CYS:HA	9:DD:388:MET:HE1	1.99	0.43
8:DE:79:ARG:HG2	17:I:20:TYR:HD1	1.83	0.43
8:DE:234:ILE:HD11	8:DE:302:MET:HE1	2.00	0.43
8:DE:265:ILE:HG23	8:DE:432:TYR:CZ	2.53	0.43
8:DG:125:LEU:HD23	8:DG:125:LEU:HA	1.85	0.43
8:DI:243:ARG:HH22	8:DI:320:ARG:HH22	1.65	0.43
9:DL:8:GLN:HG2	9:DL:14:ASN:HA	2.00	0.43
9:DL:284:LEU:HD21	9:DL:363:MET:HG3	1.99	0.43
8:DM:56:THR:HG22	8:EK:285:GLN:HB2	1.99	0.43
8:DO:1:MET:H1	8:DO:1:MET:HE3	1.84	0.43
8:DO:426:ALA:O	8:DO:430:LYS:HG2	2.18	0.43
8:EG:50:ASN:OD1	8:EG:50:ASN:N	2.49	0.43
8:EG:269:LEU:HD22	8:EG:303:VAL:HG21	2.00	0.43
9:EJ:54:ALA:HA	9:FJ:283:ALA:HB2	2.00	0.43
8:EM:271:THR:HB	8:EM:377:MET:HB3	2.00	0.43
9:EN:28:HIS:ND1	9:EN:47:ILE:HG22	2.33	0.43
8:EO:36:MET:SD	8:EO:61:HIS:NE2	2.92	0.43
15:F:150:PHE:CE2	15:F:152:LEU:HD21	2.53	0.43
9:FB:323:MET:O	9:FB:326:VAL:HG22	2.18	0.43
8:FG:212:ILE:HD12	8:FG:212:ILE:HA	1.80	0.43
8:FI:130:THR:OG1	8:FI:131:GLY:N	2.52	0.43
8:FK:98:ASP:OD1	8:FK:98:ASP:N	2.43	0.43
9:FL:253:LEU:O	9:FL:257:MET:HB2	2.18	0.43
9:FN:173:PRO:HG2	9:FN:174:LYS:HD3	1.99	0.43
8:FO:157:LEU:HG	8:FO:166:LYS:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FO:352:LYS:HD3	8:FO:352:LYS:HA	1.75	0.43
8:GA:49:PHE:HB2	8:GA:53:PHE:HD2	1.83	0.43
8:GA:69:ASP:OD1	8:GA:70:LEU:N	2.50	0.43
8:GA:171:ILE:HD13	8:GA:204:VAL:HG13	1.98	0.43
9:GB:134:GLN:HE22	9:GB:233:MET:HE3	1.83	0.43
8:GC:91:GLN:HG2	8:GC:121:ARG:CZ	2.48	0.43
8:GG:171:ILE:HD13	8:GG:171:ILE:HA	1.90	0.43
9:GJ:83:GLN:OE1	9:GJ:83:GLN:N	2.51	0.43
8:GK:68:VAL:HG12	8:GK:93:ILE:HB	2.00	0.43
8:GM:203:MET:HE1	8:GM:267:PHE:HB3	2.00	0.43
8:HA:394:LYS:O	8:HA:398:MET:HG2	2.18	0.43
9:HD:130:LEU:O	9:HD:162:ARG:NH2	2.36	0.43
8:HG:108:TYR:HA	8:HG:112:LYS:HZ2	1.83	0.43
9:HH:68:LEU:HD23	9:HH:68:LEU:HA	1.86	0.43
8:HK:2:ARG:HH12	9:HL:71:GLY:H	1.65	0.43
8:HK:210:TYR:CE1	8:HK:227:LEU:HD21	2.52	0.43
8:HO:301:GLN:H	8:HO:301:GLN:HG2	1.68	0.43
8:IA:68:VAL:HG23	8:IA:93:ILE:HB	1.99	0.43
8:IC:130:THR:OG1	8:IC:131:GLY:N	2.50	0.43
9:IH:183:TYR:HE1	9:IH:388:MET:HB2	1.83	0.43
9:IH:253:LEU:HB3	9:IH:257:MET:HE1	2.01	0.43
9:IJ:45:GLU:HG3	13:K3:266:LEU:HG	2.00	0.43
9:IL:196:THR:HG21	9:IL:199:THR:HG1	1.83	0.43
8:IM:175:PRO:HB3	8:IM:390:ARG:CZ	2.48	0.43
19:J2:235:LEU:HD12	8:LG:393:HIS:CD2	2.53	0.43
19:J2:266:GLU:HG2	41:b3:211:ARG:HH12	1.83	0.43
19:J3:247:HIS:HE1	45:n:92:LEU:HD21	1.82	0.43
19:J3:261:LEU:HA	19:J3:264:HIS:ND1	2.33	0.43
19:J4:102:HIS:CE1	19:J4:104:ASN:HD21	2.36	0.43
19:J4:212:LEU:HG	19:J4:213:GLY:H	1.83	0.43
19:J5:119:ASN:O	19:J5:123:MET:CB	2.66	0.43
9:JB:310:TYR:HA	9:JB:371:SER:HA	2.00	0.43
8:JC:68:VAL:HG12	8:JC:93:ILE:HB	2.00	0.43
9:JD:58:LYS:HD3	9:JD:59:TYR:N	2.33	0.43
9:JF:73:MET:HA	9:JF:76:VAL:HB	1.99	0.43
9:JH:267:MET:HE3	9:JH:299:MET:CG	2.47	0.43
8:JI:138:PHE:CZ	8:JI:235:VAL:HG11	2.53	0.43
9:JJ:2:ARG:O	9:JJ:49:VAL:HG23	2.18	0.43
9:JJ:178:THR:HG22	9:JJ:181:GLU:N	2.32	0.43
9:JJ:299:MET:HE3	9:JJ:300:MET:N	2.32	0.43
8:JM:188:ILE:O	8:JM:191:THR:OG1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JO:319:TYR:HB2	8:JO:355:ILE:HD13	1.99	0.43
9:KB:251:ARG:NH2	8:KC:97:GLU:OE2	2.51	0.43
9:KB:395:LEU:O	9:KB:399:THR:HG22	2.18	0.43
8:KC:312:TYR:CE2	8:KC:341:ILE:HG23	2.52	0.43
9:KD:47:ILE:HG13	9:KD:51:TYR:CD1	2.53	0.43
8:KE:6:SER:C	8:KE:7:ILE:HD12	2.44	0.43
8:KE:111:GLY:O	8:KE:115:VAL:HG23	2.18	0.43
8:KI:88:HIS:CE1	8:KI:90:GLU:HB3	2.52	0.43
8:KK:152:LEU:HD23	8:KK:152:LEU:HA	1.88	0.43
9:KN:74:ASP:HA	9:KN:77:ARG:HG2	2.00	0.43
9:KN:122:LYS:HE3	9:KN:122:LYS:HB3	1.83	0.43
9:KP:210:ILE:HA	9:KP:210:ILE:HD13	1.66	0.43
9:KP:412:GLU:O	9:KP:415:MET:HG3	2.18	0.43
21:L1:69:ARG:HG3	9:VF:26:ASP:O	2.18	0.43
8:LG:98:ASP:OD1	8:LG:98:ASP:N	2.51	0.43
9:LH:11:GLN:O	9:LH:15:GLN:HG2	2.18	0.43
9:LH:15:GLN:O	9:LH:226:ASN:ND2	2.51	0.43
9:LL:5:VAL:HB	9:LL:133:PHE:CD1	2.51	0.43
8:LM:415:GLU:HB3	43:k:75:LYS:HG3	2.00	0.43
8:LO:208:ALA:O	8:LO:212:ILE:HG12	2.18	0.43
9:LP:121:ARG:O	9:LP:125:GLU:HG2	2.18	0.43
9:MB:150:LEU:HG	9:MB:154:LYS:HE2	2.00	0.43
9:MB:282:ARG:NE	9:MB:284:LEU:HD21	2.33	0.43
8:MG:225:THR:O	8:MG:229:ARG:HG2	2.18	0.43
8:MG:298:PRO:HG3	8:MG:308:ARG:HH22	1.83	0.43
9:MH:1:MET:HE1	8:MI:96:LYS:HA	2.00	0.43
9:MH:282:ARG:HD2	9:MH:282:ARG:HA	1.77	0.43
9:MH:378:PHE:HD1	9:MH:415:MET:HE3	1.83	0.43
8:MI:382:THR:O	8:MI:382:THR:OG1	2.36	0.43
8:MK:30:ILE:HD12	8:MK:61:HIS:CD2	2.52	0.43
8:MM:69:ASP:OD1	8:MM:70:LEU:N	2.51	0.43
9:MN:184:ASN:OD1	9:MN:398:TYR:OH	2.33	0.43
6:N1:12:ASN:OD1	6:N1:15:ARG:NH2	2.41	0.43
9:NB:136:THR:HG22	9:NB:167:PHE:HB2	2.01	0.43
8:NC:195:LEU:HD22	8:NC:428:LEU:HD21	2.00	0.43
9:NF:36:TYR:CE1	9:NF:44:LEU:HG	2.52	0.43
9:NF:358:PRO:HG2	9:NF:361:LEU:HB3	1.99	0.43
8:NG:56:THR:OG1	8:NG:57:GLY:N	2.51	0.43
8:NG:141:PHE:O	8:NG:187:SER:OG	2.30	0.43
8:NG:326:LYS:HE2	9:NH:220:PRO:HG2	2.00	0.43
9:NJ:372:THR:HG21	9:NJ:426:GLN:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NN:252:LYS:HA	8:NO:100:ALA:HB1	2.00	0.43
9:NP:50:TYR:OH	9:NP:134:GLN:OE1	2.33	0.43
17:O8:93:LYS:HD3	17:O8:94:PRO:N	2.33	0.43
17:O9:159:GLU:HA	17:O9:162:TRP:CD1	2.53	0.43
9:OB:20:PHE:CD2	9:OB:230:SER:HA	2.53	0.43
9:OB:318:ARG:NH2	9:OB:364:SER:HB3	2.33	0.43
9:OD:346:PRO:HD2	8:OE:398:MET:HE2	2.00	0.43
9:OH:19:LYS:HA	9:OH:19:LYS:HD3	1.88	0.43
8:OI:54:SER:HB3	8:OI:62:VAL:HB	1.99	0.43
9:OJ:309:ARG:HG3	9:OJ:426:GLN:HG3	2.00	0.43
9:OJ:327:ASP:O	9:OJ:330:MET:HB3	2.18	0.43
8:OK:130:THR:OG1	8:OK:131:GLY:N	2.50	0.43
9:OL:42:LEU:HA	9:OL:45:GLU:HG2	2.00	0.43
9:OP:170:VAL:HG21	9:OP:377:LEU:HD11	1.99	0.43
23:P:277:MET:HE3	23:P:281:GLN:HB3	2.01	0.43
26:P2:76:PRO:HB2	26:P2:82:ASN:HB3	2.00	0.43
9:PB:8:GLN:HB3	9:PB:65:LEU:HA	1.99	0.43
8:PC:326:LYS:HG2	9:PD:220:PRO:HG2	2.00	0.43
9:PD:185:ALA:O	9:PD:189:VAL:HG23	2.17	0.43
8:PE:180:ALA:HB3	8:PE:183:GLU:HB3	2.00	0.43
9:PF:306:ARG:H	9:PF:306:ARG:HG2	1.66	0.43
8:PI:14:VAL:HG22	8:PI:67:PHE:HD2	1.84	0.43
9:PJ:47:ILE:HG12	9:PJ:51:TYR:HB2	2.00	0.43
8:PK:209:ILE:HA	8:PK:212:ILE:HG22	2.00	0.43
8:PM:326:LYS:HE2	9:PN:219:THR:HA	2.00	0.43
28:Q1:76:TRP:CD1	28:Q1:77:TYR:HD1	2.35	0.43
9:QD:285:THR:H	9:QD:288:GLU:HG3	1.83	0.43
8:QE:136:LEU:HB2	8:QE:138:PHE:HE1	1.83	0.43
8:QG:274:PRO:HG3	8:QG:286:LEU:HD22	1.98	0.43
8:QI:88:HIS:ND1	8:RI:283:HIS:HD2	2.16	0.43
8:QI:165:SER:HB3	8:QI:256:GLN:HE22	1.83	0.43
8:QK:151:SER:HB3	8:QK:193:THR:HG21	1.99	0.43
8:QM:2:ARG:NE	8:QM:133:GLN:OE1	2.50	0.43
8:QO:83:TYR:HB3	8:QO:86:LEU:HB3	1.99	0.43
11:R3:275:PHE:CD2	11:R3:380:LYS:HE2	2.53	0.43
11:R4:26:THR:OG1	11:R4:27:ASN:N	2.49	0.43
8:RI:114:ILE:HG13	8:RI:118:VAL:HG23	1.99	0.43
8:RI:132:LEU:O	8:RI:164:LYS:NZ	2.33	0.43
8:RI:311:LYS:HD2	8:RI:436:GLY:HA2	2.00	0.43
8:RK:270:ALA:O	8:RK:271:THR:OG1	2.29	0.43
9:RL:66:VAL:HA	9:RL:91:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RO:107:HIS:HA	8:RO:152:LEU:HD23	1.99	0.43
9:RP:323:MET:SD	9:RP:324:LYS:N	2.91	0.43
12:S3:192:LEU:HB2	12:S3:226:ILE:HG21	2.00	0.43
9:SB:407:GLU:HA	9:SB:410:GLU:HG2	1.99	0.43
9:SD:312:THR:HA	9:SD:348:ASN:HB3	1.99	0.43
9:SN:130:LEU:HD21	9:SN:133:PHE:CE2	2.53	0.43
14:T3:390:ALA:O	14:T3:394:LYS:HG2	2.18	0.43
9:TB:135:LEU:HD23	9:TB:152:ILE:HD11	2.00	0.43
8:TC:22:GLU:O	8:TC:26:LEU:HG	2.18	0.43
8:TC:253:THR:HA	8:TC:256:GLN:HE21	1.83	0.43
9:TD:72:THR:HB	9:TD:73:MET:HE2	2.00	0.43
9:TD:167:PHE:CZ	9:TD:233:MET:HB2	2.53	0.43
9:TD:267:MET:SD	9:TD:299:MET:HB3	2.58	0.43
8:TE:27:GLU:OE1	8:TE:361:THR:OG1	2.36	0.43
8:TE:91:GLN:HA	8:TE:121:ARG:HD3	2.00	0.43
8:TE:123:ARG:HH22	8:TE:160:ASP:HB3	1.83	0.43
9:TH:5:VAL:HB	9:TH:133:PHE:HD1	1.81	0.43
9:TH:167:PHE:CZ	9:TH:233:MET:HG3	2.52	0.43
8:TK:348:PRO:HD2	9:TL:388:MET:HE1	2.00	0.43
8:TM:102:ASN:HB3	8:TM:105:ARG:HB2	2.00	0.43
8:TM:414:GLU:CD	8:TM:416:GLY:H	2.26	0.43
9:TN:136:THR:HG22	9:TN:167:PHE:HB2	1.99	0.43
30:U3:433:ARG:HA	30:U3:433:ARG:HD3	1.77	0.43
30:U4:86:LEU:HG	30:U4:89:ARG:HE	1.82	0.43
30:U8:177:LEU:HD11	30:U8:232:LEU:HD23	2.01	0.43
30:U8:239:GLN:NE2	30:U8:243:ASN:OD1	2.49	0.43
8:UC:223:THR:OG1	8:UC:224:TYR:N	2.51	0.43
9:UD:151:LEU:HD12	9:UD:152:ILE:HG23	2.00	0.43
9:UH:199:THR:N	9:UH:264:HIS:O	2.41	0.43
8:UI:53:PHE:HB3	8:UI:61:HIS:HB3	2.00	0.43
8:UI:171:ILE:HD13	8:UI:171:ILE:HA	1.91	0.43
9:UJ:378:PHE:CD1	9:UJ:415:MET:HE1	2.53	0.43
8:UK:239:THR:HG1	8:UK:243:ARG:HH11	1.61	0.43
9:UN:223:GLY:O	9:UN:227:HIS:N	2.49	0.43
9:UN:377:LEU:HA	9:UN:380:ARG:CZ	2.48	0.43
30:V1:376:MET:HA	30:V1:379:GLU:OE2	2.17	0.43
30:V1:413:GLN:NE2	30:V2:287:ASP:OD1	2.51	0.43
30:V4:231:LYS:O	30:V4:235:ARG:HG2	2.18	0.43
30:V4:473:ARG:HD2	30:V4:473:ARG:HA	1.84	0.43
30:V5:361:LEU:HD21	30:V5:451:LEU:HB2	2.00	0.43
30:V9:427:LEU:HD13	30:V9:427:LEU:HA	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VD:8:GLN:HG2	9:VD:14:ASN:HA	2.00	0.43
9:VJ:119:VAL:O	9:VJ:123:GLU:HG2	2.18	0.43
8:VM:116:ASP:O	8:VM:119:LEU:HD12	2.18	0.43
8:VM:239:THR:O	8:VM:243:ARG:HG3	2.18	0.43
9:VN:144:GLY:N	52:VN:502:GDP:O1B	2.28	0.43
31:W:576:VAL:HG21	31:W:732:TYR:HB3	1.99	0.43
31:W:613:ASP:OD1	31:W:680:ARG:NH1	2.50	0.43
9:WB:309:ARG:HD3	9:WB:309:ARG:HA	1.72	0.43
8:WC:207:GLU:HA	8:WC:210:TYR:CD2	2.52	0.43
9:WF:163:ILE:HD13	9:WF:163:ILE:HA	1.89	0.43
8:WI:133:GLN:HE22	8:WI:252:LEU:HB2	1.82	0.43
9:WL:156:ARG:HD3	9:WL:164:MET:CE	2.29	0.43
8:WM:26:LEU:HD11	8:WM:363:VAL:HA	2.00	0.43
8:WM:312:TYR:HE2	8:WM:341:ILE:HD12	1.82	0.43
9:WN:46:ARG:O	9:WN:49:VAL:HG12	2.18	0.43
8:WO:136:LEU:H	8:WO:136:LEU:HD23	1.83	0.43
8:WO:141:PHE:CZ	8:WO:194:THR:HG21	2.53	0.43
8:WO:276:ILE:HG23	8:WO:280:LYS:HD2	2.00	0.43
8:WO:319:TYR:HB3	8:WO:323:VAL:HG11	2.00	0.43
31:X:200:ARG:NH1	31:X:205:GLU:OE2	2.38	0.43
31:X:225:TYR:O	31:X:228:LYS:HG2	2.18	0.43
34:X6:192:LYS:HE3	34:X6:253:SER:HA	2.01	0.43
34:X8:249:GLN:HE22	34:X8:251:SER:HB3	1.83	0.43
35:XA:91:VAL:HG22	35:XA:154:VAL:HG22	2.00	0.43
35:XA:104:ARG:HB3	35:XA:118:ILE:HD11	2.00	0.43
35:XC:36:ARG:NH1	35:XC:45:LEU:HD21	2.32	0.43
35:XC:69:LEU:HA	35:XC:69:LEU:HD23	1.76	0.43
35:XD:133:GLN:NE2	35:XD:134:PHE:O	2.51	0.43
35:XE:164:ARG:NH2	35:XE:181:PHE:HA	2.33	0.43
31:Y:456:PHE:HD1	31:Y:463:ILE:HG13	1.83	0.43
31:Y:562:ILE:HG12	31:Y:589:ILE:HD12	2.00	0.43
36:Y5:192:VAL:HA	36:Y5:196:LYS:HE3	1.98	0.43
37:YG:38:ARG:NH1	37:YG:40:PRO:HA	2.33	0.43
39:b:330:LEU:O	39:b:333:GLU:HG3	2.18	0.43
39:b:416:THR:O	39:b:419:LYS:HG2	2.18	0.43
41:b1:357:MET:O	41:b1:357:MET:HG2	2.18	0.43
41:b4:115:ARG:NH1	44:h3:51:MET:HE1	2.33	0.43
41:b4:393:LEU:HD23	41:b5:115:ARG:NH2	2.30	0.43
41:b5:256:LEU:HD12	41:b5:263:SER:HB3	2.00	0.43
39:c:148:ILE:O	39:c:151:GLN:HG3	2.18	0.43
39:c:244:GLU:OE2	39:c:248:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:c:254:ARG:O	39:c:258:LYS:HG3	2.18	0.43
42:f:45:CYS:H	42:f:587:SER:HB2	1.82	0.43
42:f:412:ILE:HD12	42:f:415:ALA:HB2	2.00	0.43
42:g:433:ILE:HD13	42:g:433:ILE:HA	1.84	0.43
44:h2:71:LEU:O	44:h2:75:GLU:HG2	2.18	0.43
44:h4:61:LYS:NZ	44:h4:86:ASP:OD1	2.51	0.43
44:h4:96:LEU:HA	44:h4:102:ARG:CZ	2.48	0.43
43:k:167:LYS:HD2	43:k:170:GLU:OE1	2.18	0.43
45:l:79:VAL:HG21	45:l:96:ILE:HD11	2.01	0.43
47:p:218:GLU:HA	47:p:221:GLU:OE2	2.19	0.43
47:p:539:SER:O	47:p:543:LEU:N	2.44	0.43
5:8:69:ARG:NH2	8:JI:46:ASP:HB2	2.33	0.43
7:A5:26:ARG:HH12	31:Z:63:GLY:HA3	1.84	0.43
7:A5:84:LEU:HD23	7:A5:168:LYS:HZ3	1.83	0.43
8:AA:6:SER:HB3	8:AA:8:HIS:NE2	2.33	0.43
8:AA:328:VAL:HG11	8:AA:353:VAL:HG11	2.00	0.43
9:AD:415:MET:HE2	9:AD:415:MET:HB2	1.89	0.43
9:AF:164:MET:HE2	9:AF:164:MET:HB2	1.71	0.43
9:AH:267:MET:HE2	9:AH:303:CYS:SG	2.57	0.43
9:AJ:101:TRP:NE1	9:AJ:145:SER:O	2.49	0.43
9:AL:26:ASP:OD1	9:AL:359:ARG:NH1	2.46	0.43
8:AM:231:ILE:O	8:AM:235:VAL:HG23	2.18	0.43
9:AN:267:MET:HE2	9:AN:303:CYS:SG	2.58	0.43
8:AO:262:TYR:HB2	8:AO:265:ILE:HD12	1.98	0.43
9:AP:199:THR:HB	9:AP:265:PHE:HD1	1.83	0.43
11:B3:49:THR:O	11:B3:53:ILE:HG12	2.18	0.43
11:B3:202:LYS:NZ	14:D3:212:GLU:OE2	2.47	0.43
11:B4:133:VAL:HG23	11:B4:268:ARG:HG3	1.99	0.43
9:BB:6:HIS:HD2	9:BB:21:TRP:HE1	1.66	0.43
9:BB:149:THR:HB	9:BB:191:GLN:HG2	2.00	0.43
9:BB:172:SER:HB2	9:BB:203:ASP:OD1	2.19	0.43
8:BC:88:HIS:HD2	8:CC:283:HIS:HB2	1.83	0.43
8:BG:217:LEU:HD21	8:BG:275:VAL:HB	1.99	0.43
9:BH:287:PRO:O	9:BH:291:GLN:HG2	2.19	0.43
8:BI:344:VAL:HG11	8:BI:346:TRP:CE2	2.53	0.43
8:BK:93:ILE:HD13	8:BK:117:LEU:HG	2.00	0.43
9:BL:362:LYS:HE2	9:BL:362:LYS:HB2	1.88	0.43
8:BM:8:HIS:HE1	8:BM:21:TRP:HE1	1.65	0.43
9:BN:10:GLY:O	9:BN:14:ASN:ND2	2.51	0.43
9:BP:310:TYR:CD1	9:BP:371:SER:HB2	2.54	0.43
9:BP:327:ASP:O	9:BP:330:MET:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:238:LYS:NZ	8:GO:55:GLU:OE2	2.51	0.43
12:C2:349:ASN:O	12:C2:353:GLU:HG3	2.18	0.43
9:CD:322:SER:HB3	9:CD:325:GLU:OE2	2.19	0.43
8:CE:269:LEU:HD21	8:CE:384:ILE:HB	2.00	0.43
9:CH:284:LEU:HB2	9:CH:362:LYS:HE2	2.00	0.43
9:CH:322:SER:HA	8:CI:223:THR:HG22	2.00	0.43
9:CH:326:VAL:O	9:CH:330:MET:HG2	2.18	0.43
9:CL:257:MET:HB3	9:CL:266:PHE:CZ	2.53	0.43
9:DB:39:ASP:O	17:H:51:SER:OG	2.29	0.43
8:DC:111:GLY:O	8:DC:115:VAL:HG23	2.18	0.43
8:DC:209:ILE:HA	8:DC:212:ILE:HG22	2.00	0.43
9:DD:344:TRP:HZ3	8:DE:403:ALA:HB2	1.83	0.43
8:DE:372:GLN:CD	8:DE:372:GLN:H	2.26	0.43
8:DG:35:GLN:NE2	8:DG:60:LYS:HB2	2.34	0.43
9:DH:283:ALA:HB3	9:DH:288:GLU:OE2	2.19	0.43
9:DJ:392:LYS:HD3	9:DJ:392:LYS:HA	1.75	0.43
8:DK:84:ARG:NH2	17:L:13:GLU:OE1	2.46	0.43
9:DL:173:PRO:HG2	9:DL:174:LYS:HD2	2.00	0.43
9:DN:229:VAL:O	9:DN:233:MET:HG3	2.18	0.43
8:DQ:318:LEU:HD23	8:DQ:354:GLY:HA3	1.99	0.43
15:E:149:ASN:OD1	15:E:225:ARG:NH2	2.36	0.43
15:E:200:PHE:CE2	15:E:202:ASP:HB3	2.53	0.43
9:EB:256:ASN:ND2	8:EC:181:VAL:HG22	2.33	0.43
9:EB:372:THR:HG21	9:EB:426:GLN:HB2	2.01	0.43
8:EC:112:LYS:HE2	8:EC:112:LYS:HB2	1.84	0.43
8:EC:116:ASP:OD1	8:EC:116:ASP:N	2.49	0.43
8:EC:346:TRP:HZ2	8:EC:435:VAL:HG13	1.83	0.43
9:ED:164:MET:SD	9:ED:196:THR:HA	2.58	0.43
9:EH:51:TYR:HB3	9:EH:59:TYR:HB3	1.99	0.43
9:EJ:282:ARG:NH1	9:EJ:288:GLU:OE2	2.51	0.43
8:EO:4:CYS:HB3	8:EO:136:LEU:HD23	2.00	0.43
8:FA:271:THR:HG23	8:FA:300:ASN:OD1	2.18	0.43
8:FC:3:GLU:OE2	8:FC:64:ARG:NH2	2.52	0.43
8:FC:179:THR:HG1	50:FC:501:GTP:HO3'	1.51	0.43
8:FC:264:ARG:NH1	8:FC:431:ASP:OD2	2.51	0.43
9:FD:8:GLN:NE2	9:FD:17:GLY:HA3	2.33	0.43
9:FD:401:GLU:HA	36:Y3:18:PRO:HG3	2.00	0.43
8:FE:167:LEU:HD23	8:FE:202:PHE:HE2	1.83	0.43
9:FF:269:GLY:N	9:FF:367:PHE:O	2.50	0.43
9:FJ:74:ASP:HA	9:FJ:77:ARG:NH1	2.33	0.43
9:FJ:299:MET:HE3	9:FJ:299:MET:HB3	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FL:404:ASP:OD1	9:FL:404:ASP:N	2.49	0.43
8:FM:79:ARG:NH2	36:Y2:78:LYS:HE2	2.33	0.43
8:GC:21:TRP:CH2	8:GC:65:ALA:HB2	2.53	0.43
9:GD:204:ASN:HA	9:GD:207:LEU:HD12	2.01	0.43
8:GE:326:LYS:HZ1	9:GF:208:TYR:C	2.25	0.43
8:GK:230:LEU:O	8:GK:234:ILE:HG12	2.18	0.43
9:GL:233:MET:HE3	9:GL:233:MET:HB2	1.82	0.43
8:GM:25:CYS:SG	8:GM:86:LEU:HD11	2.58	0.43
8:GM:213:CYS:SG	8:GM:214:ARG:N	2.90	0.43
8:HA:107:HIS:HA	8:HA:152:LEU:HD23	2.00	0.43
9:HB:242:PHE:CB	9:HB:356:ILE:HD12	2.47	0.43
8:HC:54:SER:O	8:HC:62:VAL:HG12	2.19	0.43
9:HF:35:THR:HG23	9:HF:58:LYS:HD3	2.00	0.43
8:HG:201:ALA:O	8:HG:268:PRO:HD2	2.18	0.43
8:HK:31:GLN:HG3	8:HK:32:PRO:HD2	2.00	0.43
8:HK:259:LEU:HD23	8:HK:268:PRO:HG3	2.00	0.43
8:HK:392:ASP:HB3	8:HK:422:ARG:HH22	1.82	0.43
9:HL:131:GLN:O	9:HL:163:ILE:HG12	2.18	0.43
8:IA:21:TRP:CZ3	8:IA:63:PRO:HB3	2.54	0.43
8:IE:130:THR:OG1	8:IE:131:GLY:N	2.51	0.43
9:IF:5:VAL:HG11	9:IF:120:VAL:HG23	1.99	0.43
9:IF:324:LYS:HE2	8:IG:222:PRO:HD2	2.01	0.43
8:IG:191:THR:O	8:IG:195:LEU:HB2	2.18	0.43
9:IH:102:ALA:HB2	9:IH:398:TYR:CD1	2.53	0.43
9:IH:372:THR:HA	9:IH:422:TYR:CE1	2.52	0.43
8:IK:297:GLU:OE2	8:IK:300:ASN:HB2	2.18	0.43
8:IK:417:GLU:H	8:IK:417:GLU:CD	2.24	0.43
9:IL:133:PHE:HB2	9:IL:164:MET:HE1	2.00	0.43
8:IM:258:ASN:HD22	8:IM:352:LYS:HE2	1.82	0.43
9:IN:227:HIS:O	9:IN:230:SER:N	2.51	0.43
19:J5:124:ASN:O	19:J5:128:VAL:HG12	2.17	0.43
9:JB:358:PRO:HG2	9:JB:361:LEU:HB3	2.00	0.43
9:JD:331:LEU:O	9:JD:335:ASN:OD1	2.37	0.43
9:JH:324:LYS:HB3	8:JI:222:PRO:HD2	2.00	0.43
8:JI:6:SER:HB3	8:JI:8:HIS:CD2	2.53	0.43
9:JJ:276:ARG:HA	9:JJ:279:GLN:HE21	1.84	0.43
9:JL:114:ASP:OD1	9:JL:115:SER:N	2.50	0.43
9:JL:199:THR:HG1	9:JL:264:HIS:CD2	2.34	0.43
8:JM:6:SER:HB3	8:JM:8:HIS:CD2	2.53	0.43
9:JN:128:ASP:OD1	9:JN:129:CYS:N	2.51	0.43
9:JN:310:TYR:CD1	9:JN:371:SER:HB2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:JN:403:MET:HE2	9:JN:407:GLU:OE2	2.17	0.43
8:JO:105:ARG:O	8:JO:110:ILE:HG22	2.18	0.43
9:JP:198:GLU:HB2	9:JP:266:PHE:CE2	2.53	0.43
9:JP:239:CYS:SG	9:JP:248:ALA:N	2.88	0.43
8:JQ:431:ASP:O	8:JQ:435:VAL:HG23	2.17	0.43
13:K3:365:SER:HB3	13:K3:368:HIS:HB2	1.99	0.43
8:KA:271:THR:HB	8:KA:377:MET:HB3	2.01	0.43
9:KB:322:SER:CB	8:KC:221:ARG:HG3	2.47	0.43
8:KC:274:PRO:HG3	8:KC:286:LEU:HD13	1.98	0.43
9:KF:21:TRP:CZ3	9:KF:24:ILE:HD11	2.53	0.43
8:KG:112:LYS:HB2	8:KG:112:LYS:HE2	1.68	0.43
9:KH:216:LYS:HZ3	9:KH:275:SER:HB3	1.83	0.43
8:KI:5:ILE:HD12	8:KI:64:ARG:HB3	1.99	0.43
8:KI:346:TRP:CD1	9:KJ:391:ARG:HG3	2.54	0.43
8:KK:60:LYS:HZ2	8:LK:283:HIS:CG	2.36	0.43
9:KL:67:ASP:OD1	9:KL:68:LEU:N	2.50	0.43
9:KP:8:GLN:HE21	9:KP:14:ASN:HA	1.83	0.43
8:LA:90:GLU:OE2	8:LA:121:ARG:NH1	2.52	0.43
9:LD:78:SER:O	9:LD:78:SER:OG	2.37	0.43
9:LF:257:MET:SD	9:LF:312:THR:OG1	2.62	0.43
9:LF:309:ARG:HG3	9:LF:426:GLN:OE1	2.18	0.43
8:LG:52:PHE:CZ	8:LG:239:THR:HG21	2.54	0.43
9:LJ:358:PRO:HG2	9:LJ:361:LEU:HB3	2.01	0.43
9:LL:112:LEU:O	9:LL:116:VAL:HG22	2.18	0.43
8:LM:75:VAL:O	8:LM:79:ARG:HG3	2.19	0.43
8:LO:315:CYS:HB3	8:LO:377:MET:HE1	1.99	0.43
9:LP:403:MET:HA	9:LP:403:MET:HE2	2.01	0.43
9:MB:159:TYR:HB3	9:MB:162:ARG:HG3	1.99	0.43
9:MF:198:GLU:HA	9:MF:264:HIS:HB2	2.00	0.43
8:MG:175:PRO:HG2	8:MG:176:GLN:OE1	2.18	0.43
9:MJ:314:ALA:HB3	9:MJ:368:ILE:HB	1.99	0.43
8:MK:97:GLU:N	8:MK:97:GLU:OE2	2.47	0.43
8:MK:288:VAL:HG13	8:MK:319:TYR:HE1	1.82	0.43
8:MM:188:ILE:O	8:MM:191:THR:OG1	2.36	0.43
8:MO:345:ASP:OD1	8:MO:345:ASP:N	2.48	0.43
8:NA:313:MET:N	8:NA:313:MET:SD	2.92	0.43
9:NB:330:MET:HA	9:NB:333:VAL:HG12	2.01	0.43
9:ND:229:VAL:O	9:ND:233:MET:HE3	2.18	0.43
8:NE:295:CYS:HB3	8:NE:377:MET:HG3	2.00	0.43
8:NG:368:LEU:H	8:NG:368:LEU:HD23	1.84	0.43
8:NG:422:ARG:HH11	8:NG:423:GLU:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NJ:42:LEU:HA	9:NJ:45:GLU:HB2	2.00	0.43
9:NJ:101:TRP:O	9:NJ:102:ALA:C	2.62	0.43
9:NJ:101:TRP:O	9:NJ:104:GLY:N	2.52	0.43
9:NL:198:GLU:HB2	9:NL:266:PHE:HE2	1.83	0.43
17:O7:14:PRO:O	17:O7:40:ALA:HA	2.18	0.43
17:O7:234:MET:HE2	17:O7:234:MET:HB3	1.93	0.43
9:OB:149:THR:HB	9:OB:191:GLN:HG2	1.99	0.43
9:OB:289:LEU:O	9:OB:293:MET:HG3	2.19	0.43
8:OC:4:CYS:SG	8:OC:136:LEU:HG	2.58	0.43
8:OC:203:MET:HE3	8:OC:384:ILE:HD11	2.00	0.43
9:OD:65:LEU:HD13	9:OD:90:PHE:CD1	2.54	0.43
8:OE:188:ILE:O	8:OE:191:THR:OG1	2.35	0.43
9:OF:20:PHE:CZ	9:OF:233:MET:HB2	2.54	0.43
8:OG:371:VAL:HG12	8:OG:373:ARG:H	1.84	0.43
9:OH:31:ASP:OD1	9:OH:31:ASP:N	2.51	0.43
8:OI:73:THR:HA	8:OI:76:ASP:HB2	1.99	0.43
8:OI:245:ASP:HA	8:OI:249:ASN:HD21	1.83	0.43
9:OJ:234:SER:O	9:OJ:238:THR:OG1	2.34	0.43
9:ON:68:LEU:HB3	9:ON:96:GLY:HA2	2.00	0.43
8:OO:154:MET:HE1	8:OO:166:LYS:HD2	2.00	0.43
27:P4:112:ALA:HA	27:P4:116:LEU:HD22	1.99	0.43
9:PB:271:ALA:HB1	9:PB:289:LEU:HD22	1.99	0.43
8:PE:2:ARG:H	8:PE:2:ARG:HG3	1.60	0.43
9:PF:325:GLU:HA	9:PF:328:GLU:HG2	1.99	0.43
8:PI:386:GLU:OE1	8:PI:386:GLU:N	2.49	0.43
9:PJ:325:GLU:C	9:PJ:329:GLN:HE21	2.26	0.43
9:PL:31:ASP:HB3	9:PL:37:HIS:CD2	2.54	0.43
9:PL:86:ARG:HG2	9:PL:88:ASP:H	1.83	0.43
9:PN:31:ASP:OD1	9:PN:35:THR:N	2.51	0.43
8:PO:171:ILE:HD13	8:PO:171:ILE:HA	1.87	0.43
9:PP:309:ARG:HG3	9:PP:426:GLN:HG3	1.99	0.43
23:Q:296:LYS:HA	23:Q:296:LYS:HD2	1.78	0.43
9:QD:70:PRO:HA	9:QD:73:MET:HE1	1.99	0.43
8:QG:152:LEU:O	8:QG:156:ARG:HG2	2.18	0.43
8:QG:167:LEU:HD12	8:QG:202:PHE:HE2	1.83	0.43
9:QJ:271:ALA:HB1	9:QJ:289:LEU:HD22	2.00	0.43
8:QK:5:ILE:HG23	8:QK:125:LEU:HD13	2.00	0.43
9:QL:242:PHE:HB2	9:QL:354:CYS:SG	2.59	0.43
8:QM:2:ARG:HB3	8:QM:242:LEU:HD23	2.00	0.43
8:QM:111:GLY:O	8:QM:115:VAL:HG23	2.18	0.43
8:QM:276:ILE:HG13	8:QM:280:LYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QN:267:MET:HE3	9:QN:299:MET:CG	2.44	0.43
8:QO:6:SER:HB3	8:QO:8:HIS:CD2	2.53	0.43
8:QO:319:TYR:HB3	8:QO:323:VAL:HG21	1.98	0.43
11:R4:409:ASP:OD2	11:R4:412:THR:HG21	2.18	0.43
9:RD:136:THR:HG22	9:RD:167:PHE:HB2	2.00	0.43
8:RE:294:ALA:HA	8:RE:297:GLU:HG2	1.99	0.43
9:RF:271:ALA:HB2	9:RF:367:PHE:HZ	1.83	0.43
8:RG:102:ASN:ND2	8:RG:105:ARG:HG3	2.34	0.43
9:RH:112:LEU:HD23	9:RH:147:MET:HE1	2.00	0.43
9:RJ:55:THR:O	9:RJ:58:LYS:HE3	2.18	0.43
8:RO:91:GLN:HA	8:RO:121:ARG:HD3	2.00	0.43
9:RP:202:ILE:HA	9:RP:300:MET:SD	2.58	0.43
12:S0:210:LEU:HD23	12:S0:210:LEU:HA	1.90	0.43
12:S1:411:LEU:O	12:S1:411:LEU:HD23	2.17	0.43
12:S2:200:PHE:CE1	12:S7:252:HIS:HB2	2.53	0.43
12:S5:237:LEU:O	12:S5:241:ASN:ND2	2.51	0.43
12:S6:209:ASP:OD1	12:S6:209:ASP:N	2.49	0.43
12:S8:144:GLN:HE21	12:S8:148:GLU:CD	2.25	0.43
12:S8:408:ASN:N	12:S8:408:ASN:OD1	2.51	0.43
9:SB:72:THR:O	9:SB:75:SER:OG	2.31	0.43
8:SC:50:ASN:ND2	8:SC:64:ARG:HH12	2.16	0.43
8:SC:315:CYS:HA	8:SC:379:SER:HA	2.00	0.43
9:SD:26:ASP:O	9:SD:359:ARG:NE	2.51	0.43
9:SH:162:ARG:NH1	9:SH:251:ARG:HH22	2.16	0.43
8:SI:132:LEU:O	8:SI:164:LYS:NZ	2.38	0.43
9:SJ:262:ARG:HH21	9:SJ:418:LEU:HD13	1.84	0.43
8:SK:215:ARG:NH2	8:SK:300:ASN:OD1	2.42	0.43
9:SL:380:ARG:O	9:SL:384:GLN:HG2	2.18	0.43
9:SN:33:THR:HG22	9:SN:58:LYS:HZ1	1.84	0.43
9:SN:406:MET:N	9:SN:406:MET:HE2	2.33	0.43
25:T:326:ALA:HA	25:T:329:PHE:HB2	1.99	0.43
14:T1:241:TYR:HB2	14:T1:243:HIS:HE1	1.81	0.43
14:T4:284:CYS:SG	14:T4:285:ILE:N	2.91	0.43
14:T4:441:LEU:HG	14:T4:446:TYR:HB3	2.00	0.43
8:TA:5:ILE:HD11	8:TA:129:CYS:SG	2.59	0.43
9:TF:42:LEU:HD23	9:TF:356:ILE:HD11	1.99	0.43
9:TF:139:LEU:HD12	9:TF:170:VAL:HG12	1.99	0.43
9:TJ:6:HIS:HA	9:TJ:134:GLN:HG2	2.00	0.43
8:TK:206:ASN:OD1	50:TK:501:GTP:N2	2.51	0.43
8:TM:7:ILE:HA	8:TM:66:VAL:HG12	1.99	0.43
8:TM:111:GLY:HA2	8:TM:149:PHE:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TN:412:GLU:HA	9:TN:415:MET:SD	2.58	0.43
30:U8:352:ASP:HB2	30:V3:333:TRP:NE1	2.33	0.43
30:U9:373:ASN:O	30:U9:376:MET:HG2	2.19	0.43
9:UB:404:ASP:OD1	9:UB:404:ASP:N	2.52	0.43
8:UC:33:ASP:OD1	8:UC:34:GLY:N	2.51	0.43
8:UC:125:LEU:HD23	8:UC:125:LEU:HA	1.86	0.43
8:UE:60:LYS:NZ	8:VE:282:TYR:HD1	2.16	0.43
9:UN:253:LEU:O	9:UN:257:MET:N	2.51	0.43
9:UN:362:LYS:HB2	39:d:445:GLU:CD	2.43	0.43
25:V:187:ASP:HB3	25:V:190:THR:HG23	2.00	0.43
30:V3:177:LEU:HD11	30:V3:229:MET:HB2	2.01	0.43
30:V6:135:GLN:O	30:V6:138:THR:HB	2.18	0.43
30:V6:443:LEU:HA	30:V6:446:MET:CE	2.48	0.43
30:V7:366:GLN:O	30:V7:370:GLN:HG2	2.17	0.43
9:VB:144:GLY:N	52:VB:502:GDP:O1B	2.32	0.43
8:VC:302:MET:HE3	8:VC:302:MET:HA	2.00	0.43
8:VE:88:HIS:HB3	8:VE:91:GLN:HG3	2.00	0.43
8:VI:370:LYS:HD2	39:b:474:HIS:CE1	2.53	0.43
9:VJ:310:TYR:CD1	9:VJ:371:SER:HB2	2.53	0.43
8:VK:282:TYR:CE1	39:b:424:ARG:HB3	2.51	0.43
8:VK:298:PRO:HG3	8:VK:308:ARG:HE	1.84	0.43
8:VM:120:ASP:O	8:VM:124:LYS:HG3	2.18	0.43
31:W:638:PHE:CD1	31:W:638:PHE:N	2.86	0.43
30:W0:398:CYS:O	30:W0:402:ARG:HG3	2.19	0.43
30:W6:161:ASP:O	30:W6:165:THR:HG23	2.18	0.43
30:W7:214:ASN:HA	30:W7:217:ARG:NH1	2.32	0.43
8:WC:185:TYR:CE2	8:WC:404:PHE:HB2	2.52	0.43
9:WD:376:GLU:HG3	9:WD:380:ARG:NH2	2.33	0.43
9:WD:390:ARG:HH12	9:WD:391:ARG:HE	1.66	0.43
8:WE:258:ASN:CG	8:WE:352:LYS:HB2	2.43	0.43
8:WG:70:LEU:HB3	8:WG:98:ASP:HA	2.01	0.43
8:WI:287:SER:N	8:WI:290:GLU:OE1	2.52	0.43
9:WL:392:LYS:HA	9:WL:392:LYS:HD3	1.81	0.43
31:X:95:GLU:N	31:X:95:GLU:OE2	2.51	0.43
35:XA:141:ARG:NE	35:XA:146:THR:O	2.38	0.43
35:XA:164:ARG:NH2	35:XA:181:PHE:HA	2.33	0.43
35:XA:178:PRO:HG2	35:XA:181:PHE:HD1	1.83	0.43
35:XE:15:TYR:CD1	35:XE:164:ARG:HB2	2.53	0.43
35:XE:69:LEU:HD23	35:XE:69:LEU:HA	1.87	0.43
35:XE:179:ALA:HA	35:XE:182:LYS:HB2	2.00	0.43
35:XH:126:ASP:OD1	35:XH:126:ASP:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Y0:40:LYS:HG3	36:Y0:40:LYS:O	2.19	0.43
39:b:314:GLU:HG2	39:b:315:ILE:N	2.33	0.43
39:b:400:ARG:HA	39:b:403:ARG:HE	1.83	0.43
41:b5:151:LEU:HB2	41:b5:227:LEU:CD2	2.48	0.43
39:c:106:PRO:O	39:c:110:GLU:HG2	2.19	0.43
42:f:221:TYR:CD1	42:f:264:LEU:HD21	2.54	0.43
42:g:13:GLU:HA	42:g:581:HIS:HA	1.99	0.43
42:g:396:GLY:HA2	42:g:420:VAL:H	1.83	0.43
43:h:249:ILE:H	43:h:249:ILE:HG13	1.63	0.43
44:h1:58:MET:HA	44:h1:59:PRO:HD3	1.87	0.43
46:i2:1499:LYS:HE3	46:i2:1499:LYS:HB3	1.84	0.43
46:i4:1440:LEU:HA	46:i4:1443:ILE:HG22	2.01	0.43
2:2:292:TYR:CE2	9:IJ:276:ARG:HG2	2.54	0.43
4:5:304:TYR:HB3	4:5:314:TYR:HE1	1.81	0.43
7:A0:312:VAL:HG21	7:A1:193:ASN:HA	2.00	0.43
9:AB:103:LYS:HB3	9:AB:103:LYS:HE2	1.76	0.43
9:AD:117:LEU:HA	9:AD:120:VAL:HG12	2.00	0.43
9:AF:7:LEU:N	9:AF:134:GLN:O	2.43	0.43
9:AH:7:LEU:HD13	9:AH:151:LEU:HD21	2.01	0.43
9:AH:336:LYS:HA	9:AH:336:LYS:HD3	1.72	0.43
8:AI:28:HIS:CE1	8:AI:243:ARG:HD2	2.54	0.43
9:AJ:324:LYS:HE2	8:AK:210:TYR:HB3	2.00	0.43
8:AM:331:ALA:O	8:AM:335:ILE:HG12	2.18	0.43
8:AO:285:GLN:HB2	8:MO:56:THR:HA	2.00	0.43
11:B1:94:GLN:NE2	11:B1:94:GLN:CA	2.80	0.43
11:B4:268:ARG:HH21	11:B4:272:MET:HE3	1.83	0.43
11:B5:131:ASP:O	11:B5:134:GLU:HG3	2.18	0.43
9:BB:256:ASN:HD22	8:BC:182:VAL:HG22	1.83	0.43
8:BC:119:LEU:HA	8:BC:122:ILE:HG22	2.01	0.43
8:BC:141:PHE:HB2	8:BC:173:PRO:HD3	1.99	0.43
8:BE:348:PRO:HD2	9:BF:388:MET:HE1	1.99	0.43
9:BF:363:MET:HB3	9:BF:363:MET:HE2	1.72	0.43
9:BJ:136:THR:HG22	9:BJ:167:PHE:HD2	1.83	0.43
9:BJ:232:THR:HG21	9:BJ:268:PRO:HB2	2.00	0.43
8:BK:241:SER:OG	8:BK:250:VAL:O	2.24	0.43
8:BK:352:LYS:HD2	9:BL:177:ASP:O	2.18	0.43
9:BL:161:ASP:OD2	9:BL:162:ARG:NH2	2.50	0.43
9:BL:269:GLY:N	9:BL:367:PHE:O	2.51	0.43
9:BL:276:ARG:HH21	31:Y:125:LEU:HD11	1.83	0.43
8:BM:326:LYS:HD3	8:BM:329:ASN:HB3	1.99	0.43
8:BO:167:LEU:HD12	8:BO:202:PHE:HE2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:369:LYS:HG3	10:C:370:GLU:N	2.33	0.43
12:C1:136:ARG:NH2	12:C2:388:GLU:OE2	2.47	0.43
12:C4:398:THR:HA	12:C4:401:ASP:OD1	2.18	0.43
12:C6:36:ARG:HD2	12:C6:41:ASN:OD1	2.18	0.43
9:CB:87:PRO:HA	9:CB:90:PHE:CD2	2.54	0.43
9:CB:404:ASP:OD1	9:CB:404:ASP:N	2.51	0.43
8:CC:7:ILE:HA	8:CC:7:ILE:HD13	1.56	0.43
8:CC:288:VAL:O	8:CC:292:THR:HG22	2.19	0.43
8:CE:24:TYR:HA	8:CE:27:GLU:HB2	1.99	0.43
8:CG:119:LEU:HD23	8:CG:119:LEU:HA	1.84	0.43
8:CG:255:PHE:O	8:CG:259:LEU:HB2	2.18	0.43
8:CG:265:ILE:HG21	8:CG:313:MET:HE1	1.99	0.43
9:CH:323:MET:HG2	8:CI:224:TYR:CE2	2.53	0.43
8:CK:41:THR:HG21	31:Y:231:ARG:CD	2.48	0.43
9:CN:27:GLU:OE1	9:CN:241:ARG:NH2	2.43	0.43
9:CN:299:MET:SD	9:CN:299:MET:N	2.91	0.43
8:CO:264:ARG:HH12	8:CO:428:LEU:HA	1.83	0.43
8:DC:11:GLN:HG3	8:DC:74:VAL:HG21	2.00	0.43
8:DE:385:ALA:HA	8:DE:388:TRP:CE3	2.54	0.43
9:DF:69:GLU:HG2	9:DF:71:GLY:H	1.84	0.43
8:DI:258:ASN:HD21	9:DJ:179:VAL:H	1.66	0.43
8:DK:203:MET:H	8:DK:203:MET:CE	2.29	0.43
8:DK:317:MET:O	8:DK:354:GLY:N	2.51	0.43
9:DN:268:PRO:HG2	9:DN:300:MET:HG3	2.00	0.43
8:DO:1:MET:HE3	8:DO:1:MET:N	2.33	0.43
8:DQ:333:ALA:O	8:DQ:337:THR:HG23	2.19	0.43
15:E:254:TYR:CD1	15:E:264:LYS:HE2	2.53	0.43
9:ED:204:ASN:OD1	52:ED:502:GDP:N2	2.51	0.43
9:EH:170:VAL:HG21	9:EH:377:LEU:HD11	2.01	0.43
8:EK:326:LYS:HE3	9:EL:219:THR:HA	2.00	0.43
9:EN:274:THR:HG21	9:EN:282:ARG:HD3	1.99	0.43
8:FA:89:PRO:HD2	8:GA:283:HIS:NE2	2.34	0.43
8:FA:136:LEU:HD12	8:FA:138:PHE:HE2	1.83	0.43
9:FB:376:GLU:O	9:FB:380:ARG:HG2	2.18	0.43
9:FD:345:ILE:HA	8:FE:398:MET:HE1	1.99	0.43
9:FF:5:VAL:HG22	9:FF:62:ARG:HD2	2.00	0.43
9:FJ:211:CYS:SG	9:FJ:220:PRO:HG3	2.58	0.43
9:FJ:262:ARG:HH21	9:FJ:418:LEU:HB2	1.82	0.43
9:FL:361:LEU:HD12	9:FL:361:LEU:HA	1.80	0.43
8:FO:72:PRO:HD3	8:FO:95:GLY:O	2.18	0.43
16:G:115:SER:HB3	8:HM:214:ARG:NH2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GA:269:LEU:HD12	8:GA:270:ALA:N	2.33	0.43
9:GD:173:PRO:HG3	9:GD:380:ARG:HD2	2.01	0.43
9:GF:323:MET:H	9:GF:323:MET:HG2	1.48	0.43
9:GF:344:TRP:H	9:GF:344:TRP:CD1	2.37	0.43
8:GG:125:LEU:HD23	8:GG:125:LEU:HA	1.85	0.43
9:GL:139:LEU:HA	9:GL:145:SER:HB3	2.00	0.43
8:HA:396:ASP:HB2	8:HA:422:ARG:HH22	1.82	0.43
9:HB:77:ARG:HD3	9:HB:90:PHE:CZ	2.53	0.43
9:HB:148:GLY:O	9:HB:152:ILE:HG13	2.17	0.43
9:HF:28:HIS:CE1	9:HF:47:ILE:HG22	2.54	0.43
8:HI:151:SER:HB3	8:HI:193:THR:HG21	2.00	0.43
9:HJ:327:ASP:O	9:HJ:330:MET:HB3	2.18	0.43
9:HN:117:LEU:O	9:HN:121:ARG:HG3	2.17	0.43
9:HP:210:ILE:CG1	9:HP:300:MET:HE1	2.47	0.43
9:ID:68:LEU:HB3	9:ID:96:GLY:HA2	1.99	0.43
9:ID:118:ASP:OD1	9:ID:121:ARG:NH2	2.47	0.43
9:ID:392:LYS:HA	9:ID:392:LYS:HD3	1.73	0.43
8:IE:213:CYS:HA	8:IE:217:LEU:HD13	2.00	0.43
9:IJ:252:LYS:HG2	8:IK:100:ALA:HA	1.99	0.43
9:IJ:253:LEU:O	9:IJ:257:MET:HB2	2.19	0.43
9:IJ:304:ASP:HB3	9:IJ:307:HIS:HE1	1.83	0.43
9:IJ:404:ASP:OD1	9:IJ:405:GLU:N	2.48	0.43
8:IM:281:ALA:HA	8:IM:284:GLU:HG2	2.01	0.43
8:IM:419:SER:O	8:IM:423:GLU:HG3	2.19	0.43
9:IN:305:PRO:HB2	9:IN:310:TYR:HE1	1.83	0.43
8:IO:139:HIS:HD1	8:IO:140:SER:C	2.26	0.43
19:J1:179:PHE:CD2	9:OB:224:ASP:OD1	2.72	0.43
19:J3:133:VAL:HG11	8:KI:410:GLY:CA	2.49	0.43
19:J3:195:GLN:HB2	19:J4:50:LEU:HD21	2.00	0.43
9:JB:388:MET:HB2	9:JB:393:ALA:HB3	2.00	0.43
8:JC:171:ILE:HA	8:JC:204:VAL:HG13	1.99	0.43
8:JC:185:TYR:HD2	8:JC:408:TYR:CE1	2.36	0.43
8:JC:433:GLU:O	8:JC:437:VAL:HG23	2.18	0.43
9:JD:156:ARG:HD3	9:JD:164:MET:HG3	2.00	0.43
9:JD:183:TYR:O	9:JD:187:LEU:HD12	2.18	0.43
9:JF:32:PRO:HB2	15:N2:104:LEU:HD21	2.00	0.43
8:JG:352:LYS:HE3	9:JH:99:ASN:HD21	1.83	0.43
9:JJ:225:LEU:HD21	52:JJ:502:GDP:N2	2.33	0.43
8:JK:68:VAL:HG11	8:JK:149:PHE:CE2	2.53	0.43
9:JL:1:MET:HE1	9:JL:2:ARG:CZ	2.47	0.43
9:JL:120:VAL:HA	9:JL:123:GLU:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JO:53:PHE:HA	8:JO:62:VAL:O	2.19	0.43
8:JO:287:SER:H	8:JO:290:GLU:HB2	1.83	0.43
8:JQ:150:ALA:O	8:JQ:154:MET:HG2	2.18	0.43
8:JQ:239:THR:C	8:JQ:243:ARG:HE	2.27	0.43
17:K:314:ARG:HA	17:K:317:HIS:ND1	2.32	0.43
8:KC:216:ASN:HB3	8:KC:275:VAL:O	2.19	0.43
9:KD:374:ILE:HD11	9:KD:422:TYR:CE2	2.53	0.43
8:KE:337:THR:HA	8:KE:339:ARG:HH22	1.83	0.43
8:KG:141:PHE:HD2	8:KG:172:TYR:HA	1.82	0.43
9:KH:407:GLU:HA	9:KH:410:GLU:HG2	2.01	0.43
8:KI:90:GLU:HG2	8:KI:121:ARG:HH11	1.83	0.43
8:KI:104:ALA:HB2	8:KI:408:TYR:HD1	1.84	0.43
8:KK:311:LYS:NZ	8:KK:436:GLY:O	2.43	0.43
9:KN:51:TYR:O	9:KN:62:ARG:NH2	2.52	0.43
8:LA:204:VAL:HG23	8:LA:302:MET:HB2	2.00	0.43
9:LB:55:THR:N	9:MB:283:ALA:HB2	2.33	0.43
8:LC:96:LYS:HA	8:LC:96:LYS:HD3	1.67	0.43
8:LG:271:THR:HA	8:LG:302:MET:HE1	1.99	0.43
9:LH:196:THR:HG21	9:LH:199:THR:OG1	2.19	0.43
9:LJ:54:ALA:HB3	9:LJ:58:LYS:HB3	2.00	0.43
9:LN:308:GLY:HA2	44:h4:64:MET:HE2	2.01	0.43
22:M1:165:LEU:HD22	27:P3:87:PHE:CZ	2.53	0.43
22:M2:140:PRO:HB3	25:U:159:MET:SD	2.58	0.43
8:MC:326:LYS:HG2	8:MC:327:ASP:OD1	2.18	0.43
9:MD:159:TYR:HE2	37:YB:32:MET:HE1	1.82	0.43
9:MD:272:PRO:HG3	9:MD:364:SER:HA	1.99	0.43
9:MF:121:ARG:CZ	37:YC:29:LYS:HD3	2.48	0.43
8:MG:2:ARG:NH2	31:X:22:LYS:HD3	2.33	0.43
8:MG:278:ALA:HA	8:MG:369:ALA:HB2	2.00	0.43
8:MI:276:ILE:HD11	8:MI:286:LEU:HD11	2.00	0.43
9:MJ:350:LYS:NZ	8:MK:179:THR:O	2.48	0.43
9:ML:147:MET:HE3	9:ML:147:MET:HB3	1.88	0.43
9:ML:407:GLU:HA	9:ML:410:GLU:HG2	1.99	0.43
8:MO:215:ARG:NH2	8:MO:300:ASN:OD1	2.44	0.43
8:MO:318:LEU:HD23	8:MO:318:LEU:HA	1.86	0.43
9:MP:167:PHE:CE2	9:MP:233:MET:HB3	2.54	0.43
9:NB:166:THR:HG21	9:NB:192:LEU:HD11	1.99	0.43
8:NC:31:GLN:NE2	8:NC:35:GLN:HB2	2.33	0.43
8:NE:298:PRO:HG3	8:NE:308:ARG:NE	2.32	0.43
8:NE:326:LYS:HG2	9:NF:208:TYR:CE1	2.53	0.43
9:NF:147:MET:HE3	9:NF:147:MET:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NF:324:LYS:HZ1	8:NG:210:TYR:C	2.22	0.43
9:NF:335:ASN:HB2	9:NF:336:LYS:NZ	2.33	0.43
9:NH:213:ARG:NH2	9:NH:214:THR:HB	2.34	0.43
9:NJ:47:ILE:HG22	9:NJ:51:TYR:HB2	1.99	0.43
9:NL:19:LYS:HD2	9:NL:19:LYS:H	1.82	0.43
9:NL:324:LYS:HE2	9:NL:324:LYS:HB2	1.53	0.43
8:NM:220:GLU:OE1	8:NM:221:ARG:HG2	2.18	0.43
8:NO:136:LEU:HB3	8:NO:138:PHE:CE1	2.53	0.43
9:NP:299:MET:SD	9:NP:299:MET:N	2.91	0.43
23:O:12:GLU:O	23:O:16:ILE:HG12	2.18	0.43
24:O4:103:LEU:HG	24:O4:112:SER:HB2	1.99	0.43
8:OA:167:LEU:HB2	8:OA:202:PHE:CE2	2.51	0.43
9:OB:167:PHE:CD2	9:OB:233:MET:HG2	2.53	0.43
9:OF:336:LYS:HE3	36:Y4:121:SER:OG	2.19	0.43
8:OK:2:ARG:H	8:OK:2:ARG:HG3	1.56	0.43
8:OK:252:LEU:HA	8:OK:255:PHE:CZ	2.53	0.43
9:OL:407:GLU:HA	9:OL:410:GLU:HG2	2.00	0.43
9:ON:134:GLN:NE2	9:ON:165:ASN:O	2.51	0.43
9:ON:337:ASN:ND2	36:Y5:202:MET:SD	2.92	0.43
9:OP:181:GLU:HB3	9:OP:182:PRO:HD3	1.99	0.43
27:P6:154:PRO:HD3	11:R4:31:GLN:OE1	2.18	0.43
27:P6:157:LEU:HA	17:P9:56:LEU:HD11	1.99	0.43
17:P8:63:LYS:HD3	30:U2:333:TRP:CE2	2.53	0.43
9:PB:170:VAL:HG11	9:PB:377:LEU:HD11	2.00	0.43
9:PD:165:ASN:OD1	9:PD:198:GLU:HB2	2.18	0.43
9:PD:239:CYS:SG	9:PD:248:ALA:N	2.90	0.43
9:PD:361:LEU:HD12	9:PD:361:LEU:HA	1.89	0.43
9:PF:256:ASN:HD21	8:PG:181:VAL:HG23	1.83	0.43
9:PH:21:TRP:CE3	9:PH:24:ILE:HD11	2.53	0.43
8:PI:404:PHE:CE1	8:PI:407:TRP:CD1	3.06	0.43
8:PK:325:PRO:HA	8:PK:328:VAL:HB	2.00	0.43
9:PL:200:TYR:HE1	9:PL:368:ILE:HG23	1.84	0.43
8:PO:88:HIS:ND1	8:QO:283:HIS:HB3	2.33	0.43
23:Q:299:GLN:HB2	23:Q:300:ARG:NH1	2.34	0.43
28:Q1:52:THR:HB	28:Q1:53:PRO:HD2	2.01	0.43
28:Q1:123:ILE:HG23	28:Q1:124:THR:HG23	2.00	0.43
28:Q2:19:GLU:HG3	12:S7:383:LYS:HD2	1.99	0.43
9:QB:202:ILE:HA	9:QB:300:MET:HE1	2.01	0.43
8:QC:238:ILE:HG13	8:QC:239:THR:HG23	2.00	0.43
9:QD:246:LEU:HB3	9:QD:353:VAL:HG23	2.00	0.43
8:QE:2:ARG:H	8:QE:2:ARG:HG3	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QE:7:ILE:HA	8:QE:66:VAL:HG23	1.99	0.43
8:QE:295:CYS:HB3	8:QE:377:MET:HE3	1.99	0.43
9:QF:165:ASN:HB3	9:QF:200:TYR:CE2	2.54	0.43
9:QH:226:ASN:O	9:QH:230:SER:OG	2.34	0.43
9:QJ:36:TYR:CZ	9:QJ:44:LEU:HD22	2.52	0.43
8:QK:141:PHE:HD2	8:QK:172:TYR:HA	1.83	0.43
9:QL:113:VAL:HG11	9:QL:150:LEU:HD23	2.00	0.43
8:QO:261:PRO:HG3	8:QO:346:TRP:HH2	1.83	0.43
9:QP:86:ARG:NH1	9:RP:277:GLY:O	2.50	0.43
11:R0:300:LEU:HA	11:R0:300:LEU:HD23	1.80	0.43
11:R3:391:MET:HA	11:R3:391:MET:HE2	2.01	0.43
11:R4:150:VAL:O	11:R4:153:GLU:HG3	2.18	0.43
11:R4:275:PHE:O	11:R4:279:LEU:HG	2.18	0.43
11:R4:298:ARG:HD3	11:R4:298:ARG:H	1.80	0.43
11:R4:363:LEU:HG	11:R4:367:PHE:CE2	2.54	0.43
8:RC:326:LYS:HE2	8:RC:326:LYS:HB2	1.76	0.43
8:RI:66:VAL:HG12	8:RI:68:VAL:HG13	2.00	0.43
8:RI:280:LYS:HD2	8:RI:280:LYS:HA	1.80	0.43
8:RK:203:MET:H	8:RK:203:MET:HG2	1.55	0.43
8:RM:166:LYS:N	8:RM:199:ASP:OD2	2.40	0.43
8:RM:207:GLU:HA	8:RM:210:TYR:CD2	2.53	0.43
29:S:110:PHE:O	29:S:114:ASP:HB2	2.18	0.43
12:S3:211:VAL:HG11	12:S3:350:ARG:HH21	1.82	0.43
12:S6:205:ARG:HG2	12:S6:465:THR:HG22	2.01	0.43
12:S6:361:ILE:HG13	12:S6:361:ILE:H	1.56	0.43
12:S8:53:ASN:HA	12:S8:56:TYR:CD1	2.54	0.43
12:S9:236:HIS:HA	12:S9:239:LYS:CG	2.48	0.43
12:S9:337:TRP:HE1	12:S9:480:TYR:HD2	1.67	0.43
8:SA:172:TYR:HD1	8:SA:203:MET:HE3	1.82	0.43
8:SC:221:ARG:HH11	8:SC:221:ARG:HA	1.83	0.43
9:SD:42:LEU:HD21	9:SD:356:ILE:HG13	2.00	0.43
9:SF:249:ASP:H	9:SF:252:LYS:HB2	1.84	0.43
9:SH:100:ASN:HB3	9:SH:103:LYS:HD3	2.01	0.43
9:SH:299:MET:HE3	9:SH:299:MET:HA	2.00	0.43
8:SI:150:ALA:O	8:SI:154:MET:HG2	2.18	0.43
8:SI:215:ARG:NH2	8:SI:299:ALA:O	2.52	0.43
9:SJ:36:TYR:HB2	9:SJ:59:TYR:HE1	1.83	0.43
9:SJ:113:VAL:HG11	9:SJ:150:LEU:HD23	2.01	0.43
9:SJ:114:ASP:OD1	9:SJ:114:ASP:N	2.49	0.43
9:SJ:233:MET:HA	9:SJ:236:VAL:HG23	2.00	0.43
8:SK:319:TYR:CE2	8:SK:353:VAL:HG13	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SK:413:MET:HE2	8:SK:417:GLU:HG2	2.00	0.43
9:SL:268:PRO:O	9:SL:300:MET:HE3	2.18	0.43
8:SM:68:VAL:HG12	8:SM:93:ILE:HB	1.99	0.43
8:SM:258:ASN:ND2	9:SN:179:VAL:H	2.15	0.43
25:T:244:ARG:HG2	25:T:265:HIS:ND1	2.32	0.43
25:T:296:ARG:HB3	25:T:323:TRP:CZ3	2.53	0.43
14:T0:238:VAL:CG1	14:T1:351:ARG:HB3	2.49	0.43
14:T3:52:LEU:HD23	14:T3:52:LEU:HA	1.89	0.43
8:TI:108:TYR:HA	8:TI:112:LYS:HE3	2.00	0.43
8:TI:138:PHE:CD1	8:TI:169:PHE:HB2	2.53	0.43
9:TJ:169:VAL:HA	9:TJ:202:ILE:HG23	2.00	0.43
9:TJ:313:VAL:HG13	9:TJ:367:PHE:CE1	2.52	0.43
8:TK:96:LYS:HE2	8:TK:96:LYS:N	2.33	0.43
9:TL:263:LEU:HD13	9:TL:370:ASN:ND2	2.33	0.43
9:TL:271:ALA:HA	9:TL:292:GLN:HE22	1.83	0.43
30:U0:195:LEU:HG	30:U0:215:LEU:HD23	2.00	0.43
30:U0:218:GLU:OE1	30:U0:473:ARG:NH2	2.52	0.43
30:U0:225:CYS:HB3	30:U0:328:LEU:HD13	2.00	0.43
30:U2:215:LEU:HD12	30:U2:215:LEU:HA	1.91	0.43
8:UE:226:ASN:HD22	8:UE:229:ARG:HH21	1.65	0.43
9:UF:313:VAL:HG12	9:UF:349:VAL:HG13	2.00	0.43
9:UH:151:LEU:HD12	9:UH:151:LEU:H	1.83	0.43
8:UM:70:LEU:HD23	8:UM:145:THR:HG23	2.00	0.43
8:UM:215:ARG:NH1	8:UM:216:ASN:OD1	2.51	0.43
30:V3:96:ASP:OD1	30:V3:97:ARG:N	2.52	0.43
30:V3:198:ARG:NH1	30:V3:209:ASP:OD1	2.51	0.43
30:V3:466:LYS:NZ	30:V3:467:ASP:OD2	2.51	0.43
30:V4:146:LEU:O	30:V4:149:LEU:HG	2.18	0.43
30:V4:186:CYS:N	30:V4:187:PRO:CD	2.81	0.43
30:V8:368:ILE:HG23	30:V8:441:LEU:HD11	2.00	0.43
8:VC:328:VAL:HG21	8:VC:355:ILE:HD11	1.99	0.43
9:VD:261:PRO:HG3	8:VE:406:HIS:CD2	2.53	0.43
8:VI:188:ILE:O	8:VI:191:THR:OG1	2.37	0.43
9:VL:346:PRO:HD2	8:VM:398:MET:HE1	2.01	0.43
8:WA:281:ALA:HA	8:WA:284:GLU:HB3	1.99	0.43
9:WB:218:THR:HB	43:h:224:LYS:HE3	2.01	0.43
8:WG:1:MET:HE2	8:WG:2:ARG:HG3	2.00	0.43
9:WH:111:GLU:OE1	9:WH:111:GLU:N	2.45	0.43
9:WH:310:TYR:N	9:WH:340:TYR:O	2.47	0.43
9:WJ:386:THR:O	9:WJ:390:ARG:HG2	2.18	0.43
9:WP:66:VAL:HA	9:WP:91:VAL:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XG:72:LYS:HB3	35:XG:72:LYS:HE3	1.67	0.43
36:Y0:38:PHE:HB2	36:Y0:47:ARG:HD3	2.00	0.43
36:Y4:158:GLN:HE22	36:Y4:160:SER:HB2	1.84	0.43
37:YB:165:MET:HE2	37:YB:165:MET:N	2.34	0.43
31:Z:630:ASN:HD22	31:Z:668:PRO:HB3	1.84	0.43
17:Z4:255:ARG:NE	17:Z4:255:ARG:HA	2.32	0.43
40:a2:154:GLN:CD	40:a2:155:THR:HG23	2.44	0.43
41:b1:378:ILE:HD13	41:b1:378:ILE:HA	1.82	0.43
41:b4:433:LEU:HD12	41:b4:437:ARG:NH2	2.34	0.43
41:b5:425:HIS:CE1	41:b5:429:MET:HE3	2.53	0.43
42:g:272:LEU:HD11	42:g:286:LYS:HD3	2.00	0.43
42:g:387:LYS:HE2	43:k:9:SER:HB2	1.99	0.43
43:h:229:LYS:O	43:h:233:GLU:HG2	2.19	0.43
4:j1:27:ALA:HB3	4:j1:99:ASP:HB2	2.00	0.43
43:k:122:LYS:HD2	43:k:123:PRO:HD2	1.99	0.43
47:o:162:ARG:O	47:o:166:ILE:HG22	2.18	0.43
47:o:223:GLU:O	47:o:227:LYS:HG2	2.18	0.43
47:p:254:LYS:HE3	47:p:254:LYS:HB3	1.76	0.43
47:p:300:ARG:HD3	47:p:300:ARG:N	2.34	0.43
47:p:384:GLU:HA	47:p:387:ARG:HH21	1.82	0.43
47:p:467:LYS:HD3	47:p:467:LYS:N	2.32	0.43
48:s:95:HIS:O	48:s:99:ILE:HG23	2.19	0.43
1:0:94:GLU:OE1	1:0:95:GLN:HG2	2.18	0.43
2:1:501:SER:HB3	2:1:504:VAL:HG23	1.99	0.43
2:1:830:CYS:SG	2:1:833:THR:HG23	2.58	0.43
3:3:180:ARG:O	3:3:184:ILE:HG12	2.18	0.43
1:7:208:TYR:H	1:7:211:SER:HB3	1.83	0.43
6:A:25:ARG:O	6:A:29:PHE:HB3	2.19	0.43
7:A1:106:LYS:HG2	7:A1:110:HIS:CE1	2.53	0.43
9:AB:362:LYS:NZ	33:X4:78:GLN:HB2	2.32	0.43
8:AE:304:LYS:HE2	48:q:81:HIS:O	2.18	0.43
9:AF:189:VAL:HG21	9:AF:415:MET:SD	2.58	0.43
9:AF:414:ASN:HA	37:YC:175:ARG:HH12	1.83	0.43
9:AH:268:PRO:C	9:AH:300:MET:HE3	2.43	0.43
9:AH:289:LEU:HD12	9:AH:289:LEU:HA	1.78	0.43
9:AH:316:VAL:HB	9:AH:366:THR:HG23	2.00	0.43
9:AH:433:GLU:OE1	9:AH:434:GLY:N	2.52	0.43
9:AJ:322:SER:HB3	22:M3:37:PHE:HB2	2.00	0.43
9:AJ:371:SER:O	9:AJ:422:TYR:OH	2.24	0.43
9:AL:317:PHE:CE2	9:AL:326:VAL:HG13	2.45	0.43
10:B:290:GLU:N	10:B:290:GLU:OE1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BB:212:PHE:O	9:BB:216:LYS:HA	2.19	0.43
8:BC:114:ILE:O	8:BC:118:VAL:HG22	2.18	0.43
9:BN:325:GLU:O	9:BN:329:GLN:HG2	2.18	0.43
8:BO:338:LYS:HE2	8:BO:340:THR:HB	2.00	0.43
9:BP:269:GLY:N	9:BP:367:PHE:O	2.51	0.43
12:C1:307:ASN:OD1	12:C1:310:ARG:NH2	2.48	0.43
12:C3:96:PRO:HB2	17:P9:89:TYR:HD1	1.83	0.43
12:C3:110:SER:HA	12:C4:451:THR:HG21	1.99	0.43
12:C4:244:LEU:HD23	12:C4:244:LEU:HA	1.91	0.43
8:CC:79:ARG:HH21	8:CC:94:THR:HG23	1.82	0.43
8:CC:265:ILE:HG23	8:CC:432:TYR:CZ	2.53	0.43
9:CD:146:GLY:O	9:CD:149:THR:OG1	2.33	0.43
9:CD:217:LEU:HB2	9:CD:220:PRO:HD3	2.01	0.43
8:CE:402:ARG:CZ	8:CE:402:ARG:HB2	2.48	0.43
9:CH:186:THR:HG23	9:CH:415:MET:HE2	2.01	0.43
9:CH:197:ASP:HB3	9:CH:198:GLU:OE1	2.18	0.43
8:CI:219:ILE:HD13	8:CI:226:ASN:ND2	2.32	0.43
8:CM:265:ILE:HD11	8:CM:435:VAL:HG21	2.00	0.43
8:CO:345:ASP:OD1	8:CO:345:ASP:N	2.51	0.43
9:CP:344:TRP:CD1	9:CP:344:TRP:H	2.37	0.43
8:DC:169:PHE:HA	8:DC:202:PHE:HB2	1.99	0.43
9:DD:236:VAL:HG22	9:DD:368:ILE:HD11	2.01	0.43
8:DE:362:VAL:HG13	8:DE:368:LEU:HG	2.01	0.43
9:DH:55:THR:HG21	9:EF:284:LEU:HG	1.99	0.43
8:DI:152:LEU:HA	8:DI:155:GLU:HG3	2.01	0.43
8:DI:311:LYS:H	8:DI:382:THR:HG22	1.82	0.43
9:DN:423:GLN:NE2	9:DN:423:GLN:O	2.52	0.43
9:DP:322:SER:OG	8:DQ:221:ARG:NH2	2.51	0.43
8:DQ:102:ASN:ND2	8:DQ:105:ARG:HG3	2.34	0.43
8:EA:139:HIS:HE1	8:EA:141:PHE:CE1	2.37	0.43
9:ED:229:VAL:O	9:ED:233:MET:HG2	2.18	0.43
8:EE:7:ILE:HD11	8:EE:135:PHE:CD1	2.53	0.43
9:EF:357:PRO:HB3	9:EF:362:LYS:O	2.19	0.43
8:EG:20:CYS:SG	8:EG:21:TRP:N	2.92	0.43
8:EG:339:ARG:HH21	8:EG:342:GLN:HG2	1.83	0.43
9:EH:155:ILE:HD13	9:EH:155:ILE:HA	1.88	0.43
8:EK:66:VAL:HG12	8:EK:68:VAL:HG13	2.01	0.43
9:EL:284:LEU:HG	9:EL:363:MET:HB2	2.01	0.43
9:EL:398:TYR:HB3	9:EL:403:MET:SD	2.59	0.43
8:EM:49:PHE:O	8:EM:53:PHE:N	2.43	0.43
8:EO:6:SER:HB3	8:EO:8:HIS:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FB:274:THR:HB	9:FB:278:SER:HB2	2.01	0.43
8:FC:214:ARG:HG3	8:FC:214:ARG:H	1.67	0.43
9:FD:204:ASN:ND2	52:FD:502:GDP:N3	2.67	0.43
8:FG:102:ASN:HB3	8:FG:105:ARG:HB2	1.99	0.43
9:FH:68:LEU:HD23	9:FH:68:LEU:HA	1.86	0.43
9:FH:252:LYS:HA	8:FI:100:ALA:HB1	2.01	0.43
8:FI:36:MET:HE2	8:FI:36:MET:HB2	1.70	0.43
9:FJ:325:GLU:OE1	9:FJ:325:GLU:N	2.39	0.43
9:FL:285:THR:HB	9:FL:287:PRO:HD2	2.00	0.43
8:FM:344:VAL:HG22	8:FM:345:ASP:OD1	2.18	0.43
9:FN:184:ASN:O	9:FN:188:SER:OG	2.26	0.43
9:FN:240:LEU:HD13	9:FN:249:ASP:HB2	1.99	0.43
9:GB:21:TRP:CH2	9:GB:50:TYR:HB3	2.53	0.43
8:GE:352:LYS:HD2	8:GE:352:LYS:HA	1.87	0.43
9:GF:96:GLY:O	9:GF:103:LYS:HD3	2.18	0.43
9:GH:255:VAL:HA	8:GI:407:TRP:CE2	2.54	0.43
8:GI:358:GLN:H	8:GI:358:GLN:HG3	1.60	0.43
9:GJ:17:GLY:HA2	9:GJ:20:PHE:HB3	1.99	0.43
9:GJ:164:MET:HB3	9:GJ:164:MET:HE2	1.59	0.43
9:GL:58:LYS:HE3	9:HL:280:GLN:O	2.19	0.43
8:GM:370:LYS:NZ	26:P2:101:TRP:O	2.47	0.43
8:GM:385:ALA:HA	8:GM:388:TRP:HE3	1.83	0.43
8:GO:91:GLN:HA	8:GO:121:ARG:NH1	2.33	0.43
8:GO:201:ALA:O	8:GO:268:PRO:HD2	2.17	0.43
9:HD:73:MET:HE3	9:HD:73:MET:HB2	1.72	0.43
8:HE:123:ARG:HD2	36:Y1:218:PRO:HD3	2.01	0.43
9:HF:337:ASN:CG	49:y:130:ILE:HG21	2.43	0.43
9:HH:237:THR:HG22	9:HH:241:ARG:HE	1.83	0.43
9:HJ:36:TYR:CD1	9:HJ:44:LEU:HD21	2.53	0.43
9:HJ:158:GLU:HG3	9:HJ:159:TYR:CE1	2.53	0.43
9:HJ:323:MET:HE3	9:HJ:323:MET:HB2	1.51	0.43
8:HK:9:VAL:HG11	8:HK:150:ALA:HB2	2.01	0.43
8:HK:69:ASP:OD2	8:HK:71:GLU:N	2.44	0.43
8:HK:69:ASP:CG	8:HK:70:LEU:N	2.77	0.43
9:HN:164:MET:HE3	9:HN:165:ASN:N	2.33	0.43
9:HN:204:ASN:HA	9:HN:207:LEU:HG	1.99	0.43
9:HN:230:SER:HA	9:HN:233:MET:HE2	2.00	0.43
9:HN:309:ARG:H	9:HN:372:THR:HB	1.82	0.43
8:IA:288:VAL:O	8:IA:292:THR:HG23	2.19	0.43
8:IC:271:THR:HB	8:IC:377:MET:HB3	1.99	0.43
9:IF:130:LEU:HB2	9:IF:162:ARG:HE	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IF:274:THR:HG21	9:IF:282:ARG:HD3	2.01	0.43
9:IH:86:ARG:HH21	9:IH:87:PRO:HB2	1.83	0.43
8:II:125:LEU:HD23	8:II:125:LEU:HA	1.89	0.43
8:II:172:TYR:CE1	8:II:387:ALA:HB1	2.54	0.43
9:IJ:149:THR:HB	9:IJ:191:GLN:HG2	2.01	0.43
8:IK:276:ILE:HD12	8:IK:276:ILE:HA	1.87	0.43
8:IK:297:GLU:OE1	8:IK:299:ALA:N	2.41	0.43
9:IL:245:GLN:HG3	9:IL:355:ASP:OD1	2.19	0.43
9:IN:238:THR:HG21	9:IN:318:ARG:NE	2.34	0.43
8:IO:23:LEU:HD12	8:IO:26:LEU:HD11	1.99	0.43
8:IO:70:LEU:HB3	8:IO:98:ASP:HA	2.01	0.43
9:IP:104:GLY:O	9:IP:147:MET:HG3	2.18	0.43
9:IP:226:ASN:OD1	52:IP:502:GDP:N1	2.50	0.43
19:J1:190:LEU:HA	19:J1:193:GLN:OE1	2.18	0.43
9:JB:28:HIS:CG	9:JB:47:ILE:HG13	2.53	0.43
8:JC:108:TYR:HA	8:JC:112:LYS:HE3	2.01	0.43
9:JD:380:ARG:HA	9:JD:380:ARG:CZ	2.49	0.43
9:JF:245:GLN:NE2	8:JG:224:TYR:HB2	2.34	0.43
9:JF:300:MET:C	9:JF:300:MET:HE3	2.43	0.43
8:JI:223:THR:N	8:JI:226:ASN:OD1	2.50	0.43
9:JJ:180:VAL:O	9:JJ:184:ASN:ND2	2.51	0.43
8:JK:76:ASP:HA	8:JK:79:ARG:HD2	1.99	0.43
9:JN:89:ASN:N	9:JN:89:ASN:OD1	2.51	0.43
9:JN:247:ASN:H	8:JO:11:GLN:HE22	1.66	0.43
9:JN:279:GLN:H	9:JN:279:GLN:HG2	1.64	0.43
9:JP:22:GLU:HG3	9:JP:81:PHE:CE2	2.54	0.43
20:K2:52:ARG:HB2	20:K2:52:ARG:HH11	1.83	0.43
20:K2:57:TRP:H	20:K2:57:TRP:HE3	1.66	0.43
13:K3:301:LEU:HA	13:K3:301:LEU:HD12	1.72	0.43
8:KA:130:THR:OG1	8:KA:131:GLY:N	2.52	0.43
9:KB:313:VAL:HG13	9:KB:367:PHE:CE1	2.54	0.43
8:KC:111:GLY:O	8:KC:115:VAL:HG23	2.19	0.43
8:KC:212:ILE:HG23	8:KC:216:ASN:HD22	1.84	0.43
9:KD:267:MET:HE3	9:KD:299:MET:HG3	2.00	0.43
9:KD:357:PRO:HB3	9:KD:362:LYS:O	2.18	0.43
9:KH:139:LEU:HD12	9:KH:170:VAL:HG12	2.00	0.43
8:KI:190:THR:O	8:KI:194:THR:HG23	2.18	0.43
9:KJ:210:ILE:HD13	9:KJ:210:ILE:HA	1.83	0.43
8:KK:192:HIS:NE2	8:KK:421:ALA:HA	2.34	0.43
9:KN:173:PRO:HG3	9:KN:380:ARG:HE	1.83	0.43
8:KO:107:HIS:HA	8:KO:152:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KP:311:LEU:HD23	9:KP:312:THR:N	2.33	0.43
8:LA:289:ALA:O	8:LA:293:ASN:ND2	2.52	0.43
8:LA:373:ARG:HH22	29:R:152:ARG:HH22	1.66	0.43
8:LG:1:MET:N	25:V:29:GLN:OE1	2.51	0.43
8:LG:201:ALA:O	8:LG:268:PRO:HD2	2.18	0.43
9:LH:252:LYS:HA	8:LI:100:ALA:HB1	2.01	0.43
8:LK:7:ILE:O	8:LK:7:ILE:HG22	2.18	0.43
9:LL:240:LEU:HD12	9:LL:240:LEU:HA	1.80	0.43
8:LM:285:GLN:NE2	8:LM:290:GLU:OE2	2.51	0.43
8:LO:217:LEU:HD23	8:LO:367:ASP:HB2	2.01	0.43
8:LO:229:ARG:HD3	8:LO:363:VAL:HG11	1.99	0.43
9:LP:270:PHE:HD2	9:LP:273:LEU:HD21	1.83	0.43
8:ME:328:VAL:HG11	8:ME:353:VAL:HG11	2.01	0.43
8:MG:288:VAL:HB	8:MG:327:ASP:HB3	2.01	0.43
8:MI:201:ALA:O	8:MI:268:PRO:HD2	2.18	0.43
8:MI:274:PRO:HG3	8:MI:286:LEU:HD13	2.01	0.43
9:MJ:203:ASP:OD1	9:MJ:204:ASN:N	2.52	0.43
8:MK:104:ALA:HB1	8:MK:411:GLU:OE1	2.18	0.43
8:MK:345:ASP:OD1	8:MK:345:ASP:N	2.46	0.43
9:MN:263:LEU:HB3	9:MN:422:TYR:CE2	2.52	0.43
9:MN:323:MET:H	9:MN:323:MET:HG2	1.71	0.43
9:ND:252:LYS:HE2	8:NE:100:ALA:HA	2.01	0.43
8:NE:252:LEU:HA	8:NE:255:PHE:CD1	2.54	0.43
8:NG:225:THR:OG1	8:NG:229:ARG:NH2	2.51	0.43
9:NJ:143:THR:HG1	9:NJ:144:GLY:N	2.16	0.43
9:NJ:316:VAL:HG22	9:NJ:352:ALA:HB3	2.01	0.43
8:NM:392:ASP:O	8:NM:422:ARG:NH2	2.51	0.43
9:NN:31:ASP:OD2	9:NN:35:THR:OG1	2.36	0.43
8:NO:286:LEU:HD12	8:NO:286:LEU:HA	1.90	0.43
8:NO:313:MET:HG3	8:NO:344:VAL:HG11	2.01	0.43
8:NO:325:PRO:HB2	9:NP:208:TYR:OH	2.19	0.43
9:NP:68:LEU:HD23	9:NP:68:LEU:HA	1.86	0.43
9:NP:147:MET:SD	9:NP:147:MET:N	2.86	0.43
9:OF:232:THR:HG21	9:OF:268:PRO:HB2	1.99	0.43
9:OF:289:LEU:O	9:OF:292:GLN:N	2.51	0.43
8:OK:111:GLY:O	8:OK:115:VAL:HG23	2.17	0.43
9:OP:124:ALA:HA	9:OP:130:LEU:HD21	2.00	0.43
27:P5:161:HIS:O	17:P8:56:LEU:HD21	2.19	0.43
27:P6:88:PRO:HA	27:P6:89:PRO:HD3	1.92	0.43
17:P9:91:SER:HB2	11:R4:223:ARG:NH1	2.30	0.43
17:P9:159:GLU:OE2	17:P9:159:GLU:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:P9:182:ARG:O	30:W7:35:GLU:HB2	2.19	0.43
9:PB:289:LEU:O	9:PB:292:GLN:N	2.49	0.43
8:PC:224:TYR:HA	8:PC:227:LEU:HD13	2.00	0.43
9:PD:31:ASP:OD1	9:PD:33:THR:HG22	2.18	0.43
9:PD:228:LEU:HG	9:PD:300:MET:CE	2.46	0.43
9:PD:372:THR:HA	9:PD:422:TYR:CE1	2.47	0.43
9:PH:189:VAL:HG13	9:PH:415:MET:HE3	1.99	0.43
9:PH:403:MET:HE2	9:PH:404:ASP:N	2.32	0.43
9:PN:289:LEU:HD21	9:PN:363:MET:HE3	1.99	0.43
9:PP:58:LYS:NZ	9:PP:59:TYR:O	2.52	0.43
9:PP:324:LYS:HE2	9:PP:324:LYS:HB3	1.90	0.43
9:QB:137:HIS:CD2	9:QB:144:GLY:C	2.97	0.43
9:QD:337:ASN:HB3	9:QD:340:TYR:HD2	1.84	0.43
9:QH:62:ARG:HG2	9:QH:123:GLU:OE1	2.18	0.43
8:QI:132:LEU:O	8:QI:164:LYS:NZ	2.40	0.43
8:QI:179:THR:OG1	50:QI:501:GTP:O3'	2.27	0.43
8:QI:333:ALA:O	8:QI:337:THR:HG22	2.19	0.43
8:QI:386:GLU:OE2	8:QI:386:GLU:N	2.45	0.43
9:QJ:372:THR:HA	9:QJ:422:TYR:CE1	2.51	0.43
11:R0:138:LEU:O	11:R0:142:GLU:HG2	2.17	0.43
11:R0:276:TYR:HA	11:R0:279:LEU:HD12	2.00	0.43
11:R2:355:LYS:HA	11:R2:355:LYS:HD2	1.61	0.43
11:R3:102:ASN:O	11:R3:106:LYS:HG2	2.18	0.43
8:RC:119:LEU:HD11	8:RC:156:ARG:HE	1.83	0.43
9:RD:7:LEU:HA	9:RD:64:VAL:HG23	2.00	0.43
8:RG:271:THR:HB	8:RG:377:MET:HB3	2.00	0.43
8:RG:345:ASP:N	8:RG:345:ASP:OD1	2.46	0.43
9:RH:117:LEU:HD23	9:RH:117:LEU:HA	1.87	0.43
9:RH:244:GLY:N	9:RH:247:ASN:OD1	2.41	0.43
9:RJ:363:MET:HE3	9:RJ:363:MET:HA	2.01	0.43
8:RK:264:ARG:NH1	8:RK:431:ASP:OD2	2.52	0.43
9:RN:252:LYS:HE3	8:RO:100:ALA:HA	2.01	0.43
9:RN:309:ARG:HG3	9:RN:426:GLN:HG3	1.99	0.43
9:RP:148:GLY:HA2	9:RP:151:LEU:HD12	2.01	0.43
12:S2:294:VAL:HG23	12:S3:411:LEU:HB3	2.01	0.43
12:S3:352:ALA:HB1	30:V6:333:TRP:HZ2	1.83	0.43
12:S5:163:GLU:OE2	12:S5:315:ARG:NH2	2.51	0.43
12:S8:121:ARG:HD2	12:S9:374:GLN:OE1	2.19	0.43
12:S8:401:ASP:O	12:S8:404:THR:OG1	2.34	0.43
9:SB:299:MET:HA	9:SB:299:MET:HE3	2.01	0.43
8:SC:17:GLY:O	8:SC:21:TRP:CD1	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SC:317:MET:HE3	8:SC:318:LEU:N	2.33	0.43
14:T1:8:LEU:HD11	14:T1:11:GLU:HB2	1.99	0.43
14:T2:7:LEU:HB3	14:T4:370:ARG:HH21	1.84	0.43
14:T2:8:LEU:HD22	14:T3:253:THR:HG23	2.01	0.43
14:T3:419:LYS:HA	14:T3:419:LYS:HD3	1.56	0.43
14:T4:78:ARG:HH12	14:T5:331:ASP:C	2.27	0.43
8:TA:2:ARG:HB3	8:TA:133:GLN:HG3	2.00	0.43
8:TA:49:PHE:HB2	8:TA:53:PHE:CD2	2.53	0.43
8:TC:149:PHE:O	8:TC:153:LEU:HG	2.18	0.43
9:TF:198:GLU:HB2	9:TF:266:PHE:CE2	2.49	0.43
9:TH:86:ARG:HD3	9:TH:88:ASP:H	1.83	0.43
9:TJ:212:PHE:HB2	9:TJ:213:ARG:HD3	2.00	0.43
9:TL:5:VAL:HB	9:TL:133:PHE:CD1	2.51	0.43
9:TN:144:GLY:N	52:TN:502:GDP:O1B	2.33	0.43
30:U0:425:ASP:O	30:U0:428:GLN:HG2	2.18	0.43
30:U1:116:LEU:O	30:U1:120:SER:OG	2.29	0.43
30:U2:462:LEU:HD23	30:U2:462:LEU:HA	1.83	0.43
30:U6:277:ILE:HG22	30:U7:394:THR:HG21	1.99	0.43
30:U9:437:THR:O	30:U9:440:THR:OG1	2.23	0.43
8:UC:88:HIS:HD2	8:VC:283:HIS:ND1	2.16	0.43
8:UE:251:ASP:OD1	8:UE:251:ASP:N	2.46	0.43
9:UF:68:LEU:HD23	9:UF:68:LEU:HA	1.88	0.43
9:UH:326:VAL:O	9:UH:330:MET:HB2	2.19	0.43
9:UJ:147:MET:HE3	9:UJ:147:MET:O	2.18	0.43
9:UJ:253:LEU:O	9:UJ:257:MET:HG2	2.18	0.43
8:UK:1:MET:HE2	8:UK:2:ARG:N	2.33	0.43
8:UK:130:THR:OG1	8:UK:131:GLY:N	2.52	0.43
9:UL:6:HIS:HE2	9:UL:8:GLN:CD	2.26	0.43
9:UN:167:PHE:CE1	9:UN:233:MET:HG3	2.54	0.43
30:V1:170:MET:SD	30:V1:314:SER:HB3	2.59	0.43
30:V2:317:LEU:HD23	30:V2:317:LEU:HA	1.86	0.43
30:V6:257:LYS:NZ	30:V6:296:TRP:HE1	2.16	0.43
30:V7:210:ASN:O	30:V7:214:ASN:ND2	2.51	0.43
8:VA:326:LYS:HB2	8:VA:326:LYS:HE3	1.90	0.43
9:VB:17:GLY:HA2	9:VB:20:PHE:HB3	2.00	0.43
9:VB:362:LYS:HE3	39:a:340:VAL:HB	2.00	0.43
8:VC:1:MET:HE3	8:VC:47:ASP:HB2	2.00	0.43
9:VD:152:ILE:HA	9:VD:155:ILE:HG12	2.01	0.43
9:VD:375:GLN:HA	9:VD:378:PHE:HD2	1.84	0.43
8:VG:25:CYS:HB2	8:VG:30:ILE:HB	2.00	0.43
8:VG:114:ILE:O	8:VG:118:VAL:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VM:286:LEU:HD12	8:VM:290:GLU:HG3	1.98	0.43
9:VN:111:GLU:OE2	9:VN:111:GLU:N	2.51	0.43
8:VO:324:VAL:HB	8:VO:327:ASP:CG	2.44	0.43
30:W2:155:GLU:O	30:W2:159:GLU:OE1	2.37	0.43
30:W7:467:ASP:OD1	30:W7:467:ASP:N	2.50	0.43
8:WC:23:LEU:HD12	8:WC:26:LEU:HD11	2.01	0.43
8:WC:204:VAL:HA	8:WC:303:VAL:HG22	2.00	0.43
9:WH:228:LEU:HB3	9:WH:300:MET:CE	2.48	0.43
9:WJ:344:TRP:H	9:WJ:344:TRP:CD1	2.37	0.43
8:WM:286:LEU:HG	8:WM:373:ARG:NH1	2.33	0.43
33:X5:124:HIS:HB3	33:X5:127:GLU:CD	2.44	0.43
34:X8:126:LEU:HD12	34:X8:127:HIS:N	2.33	0.43
34:X8:160:GLN:H	34:X8:160:GLN:CD	2.26	0.43
35:XA:173:SER:H	35:XA:176:GLU:CD	2.26	0.43
35:XF:33:HIS:NE2	35:XF:35:LYS:HE3	2.33	0.43
31:Y:453:VAL:HG22	31:Y:468:PRO:HD3	2.00	0.43
36:Y4:120:PRO:HB2	36:Y4:122:HIS:CE1	2.53	0.43
31:Z:479:MET:SD	31:Z:480:PHE:N	2.91	0.43
39:a:114:TRP:CZ2	43:j:192:GLU:HG2	2.53	0.43
42:f:611:ILE:O	42:f:612:LEU:HD23	2.18	0.43
42:g:113:LYS:O	42:g:131:GLY:N	2.52	0.43
42:g:504:LEU:O	42:g:522:THR:HG23	2.19	0.43
42:g:571:VAL:H	42:g:579:VAL:HG13	1.83	0.43
44:h1:42:LEU:HD13	44:h1:43:PRO:HD2	2.00	0.43
43:i:38:ASP:HA	43:i:41:LYS:HE2	1.99	0.43
43:i:192:GLU:HA	43:i:195:ALA:HB3	2.00	0.43
43:k:167:LYS:HD2	43:k:167:LYS:HA	1.84	0.43
43:k:178:GLU:O	43:k:182:LYS:HG2	2.18	0.43
2:1:425:SER:O	2:1:429:VAL:HG23	2.18	0.43
2:1:608:GLU:O	2:1:612:GLN:HG2	2.19	0.43
2:2:275:PHE:HB2	8:II:358:GLN:CD	2.43	0.43
2:2:301:LYS:HE3	9:IJ:279:GLN:HB2	2.01	0.43
2:2:494:GLU:O	4:j1:368:LYS:NZ	2.52	0.43
3:3:19:LYS:NZ	36:Y5:244:ASP:OD2	2.51	0.43
3:3:366:ASP:N	3:3:366:ASP:OD1	2.50	0.43
4:5:361:ARG:HG2	4:5:371:ASN:HB2	2.00	0.43
7:A1:168:LYS:O	7:A1:172:GLU:HG3	2.18	0.43
8:AA:175:PRO:O	8:AA:394:LYS:NZ	2.43	0.43
9:AB:113:VAL:HA	9:AB:116:VAL:HG22	2.00	0.43
8:AC:389:ALA:N	8:AC:429:GLU:OE2	2.52	0.43
9:AD:37:HIS:CB	17:I:255:ARG:HH22	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AD:358:PRO:HG2	9:AD:361:LEU:HB3	2.01	0.43
9:AF:163:ILE:HG21	9:AF:250:LEU:HD11	2.01	0.43
8:AG:191:THR:O	8:AG:195:LEU:HB2	2.18	0.43
9:AH:21:TRP:CZ3	9:AH:61:PRO:HB3	2.53	0.43
9:AH:101:TRP:NE1	9:AH:145:SER:O	2.50	0.43
8:AK:157:LEU:HB3	8:AK:166:LYS:HE3	2.01	0.43
8:AK:265:ILE:HG23	8:AK:432:TYR:CZ	2.53	0.43
8:AM:318:LEU:O	8:AM:375:VAL:HA	2.18	0.43
9:AN:252:LYS:HG3	8:AO:100:ALA:HA	2.00	0.43
11:B2:301:GLU:HA	11:B2:304:LEU:HD12	2.00	0.43
9:BB:310:TYR:CD1	9:BB:371:SER:HB2	2.54	0.43
9:BD:189:VAL:HA	9:BD:192:LEU:HD23	2.01	0.43
8:BE:46:ASP:OD2	22:M2:175:TYR:HD2	2.01	0.43
9:BJ:310:TYR:CD1	9:BJ:371:SER:HB2	2.53	0.43
9:BN:170:VAL:HG11	9:BN:377:LEU:HD21	2.01	0.43
8:BO:79:ARG:HH21	8:BO:94:THR:HG23	1.83	0.43
12:C0:131:LYS:HZ2	12:C1:430:THR:HG23	1.82	0.43
12:C2:172:ASN:ND2	11:R2:409:ASP:O	2.51	0.43
12:C2:400:LEU:O	12:C2:404:THR:HG23	2.18	0.43
9:CB:256:ASN:HA	8:CC:404:PHE:CE2	2.53	0.43
9:CB:309:ARG:NH2	9:CB:339:SER:O	2.51	0.43
9:CB:415:MET:N	9:CB:415:MET:HE2	2.34	0.43
9:CD:130:LEU:O	9:CD:162:ARG:NH1	2.51	0.43
9:CD:392:LYS:HA	9:CD:392:LYS:HD3	1.92	0.43
8:CI:225:THR:OG1	27:P5:24:ASP:OD2	2.22	0.43
9:CL:137:HIS:ND1	9:CL:144:GLY:O	2.51	0.43
14:D0:32:ASN:HD21	14:D0:40:GLY:H	1.65	0.43
14:D2:54:ASP:O	14:D2:58:GLN:HG3	2.18	0.43
14:D3:166:ASP:OD1	14:D3:419:LYS:NZ	2.52	0.43
8:DC:79:ARG:HB3	17:H:17:ILE:HD11	2.00	0.43
9:DF:165:ASN:HB2	9:DF:200:TYR:CE2	2.47	0.43
9:DF:330:MET:HE2	9:DF:349:VAL:HG11	1.99	0.43
9:DN:318:ARG:HD3	9:DN:358:PRO:HD3	2.01	0.43
9:DP:232:THR:HG21	9:DP:268:PRO:HB2	2.00	0.43
8:DQ:8:HIS:H	8:DQ:8:HIS:CD2	2.36	0.43
8:EC:34:GLY:HA3	8:EC:60:LYS:NZ	2.33	0.43
9:ED:156:ARG:NH1	9:ED:197:ASP:OD1	2.41	0.43
9:ED:321:MET:SD	9:ED:363:MET:SD	3.16	0.43
9:EH:218:THR:HG22	25:V:402:PRO:HB2	2.01	0.43
8:EI:326:LYS:HG2	9:EJ:212:PHE:HE1	1.84	0.43
8:FA:123:ARG:HE	36:Y3:66:PRO:HG2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FB:313:VAL:HB	9:FB:349:VAL:HG22	2.00	0.43
8:FC:12:ALA:O	8:FC:16:ILE:HG12	2.18	0.43
8:FE:191:THR:HA	8:FE:194:THR:HG22	2.00	0.43
8:FE:239:THR:OG1	8:FE:243:ARG:NH1	2.51	0.43
9:FF:299:MET:HA	9:FF:299:MET:HE3	2.00	0.43
8:FG:76:ASP:HA	8:FG:79:ARG:HD2	2.01	0.43
9:FN:207:LEU:HD12	9:FN:300:MET:HB2	1.99	0.43
9:FN:293:MET:HE3	9:FN:293:MET:C	2.44	0.43
16:G:112:THR:HA	8:GM:96:LYS:HB2	2.01	0.43
8:GA:15:GLN:HB3	8:GA:228:ASN:HD21	1.83	0.43
9:GB:289:LEU:HD11	9:GB:363:MET:HB3	2.01	0.43
8:GC:265:ILE:HG23	8:GC:432:TYR:CZ	2.53	0.43
8:GC:272:TYR:HD1	8:GC:275:VAL:HG22	1.83	0.43
8:GC:306:ASP:HB3	8:GC:309:HIS:CD2	2.53	0.43
9:GD:32:PRO:O	9:GD:83:GLN:NE2	2.51	0.43
9:GF:65:LEU:HD22	9:GF:90:PHE:CE2	2.53	0.43
9:GF:323:MET:HA	9:GF:326:VAL:HB	1.99	0.43
8:GI:98:ASP:OD1	8:GI:145:THR:OG1	2.35	0.43
8:GI:252:LEU:HD12	8:GI:252:LEU:H	1.83	0.43
9:GJ:274:THR:HG21	9:GJ:282:ARG:NE	2.33	0.43
9:GJ:385:PHE:HE2	9:GJ:412:GLU:HB2	1.83	0.43
8:GK:1:MET:SD	8:GK:2:ARG:CZ	3.07	0.43
8:GK:287:SER:O	8:GK:291:ILE:HG23	2.19	0.43
9:GL:156:ARG:HG3	9:GL:195:ASN:HB3	2.00	0.43
9:GL:207:LEU:HA	9:GL:210:ILE:HG22	2.01	0.43
8:GM:155:GLU:HG2	8:GM:197:HIS:CD2	2.53	0.43
8:GO:101:ASN:HD22	8:GO:143:GLY:HA2	1.83	0.43
8:HA:88:HIS:CD2	8:HA:90:GLU:HB3	2.53	0.43
8:HC:182:VAL:HG12	8:HC:186:ASN:HD21	1.84	0.43
8:HC:241:SER:HB3	8:HC:250:VAL:H	1.84	0.43
9:HH:317:PHE:HB2	9:HH:353:VAL:HG22	2.00	0.43
8:HI:408:TYR:HB3	8:HI:413:MET:HE2	2.00	0.43
9:HJ:54:ALA:HB3	9:HJ:58:LYS:HB2	1.99	0.43
9:HJ:91:VAL:HG11	9:HJ:116:VAL:HG22	2.01	0.43
8:HM:88:HIS:HE1	8:HM:90:GLU:HB3	1.84	0.43
8:HM:231:ILE:O	8:HM:235:VAL:HG23	2.18	0.43
8:HO:147:SER:O	8:HO:151:SER:OG	2.33	0.43
9:HP:198:GLU:HA	9:HP:264:HIS:HB2	2.01	0.43
9:IB:22:GLU:O	9:IB:25:SER:OG	2.31	0.43
9:IB:306:ARG:NH2	36:Y0:53:PHE:C	2.75	0.43
9:IB:310:TYR:CD1	9:IB:371:SER:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IB:313:VAL:HG13	9:IB:367:PHE:HE2	1.83	0.43
9:ID:253:LEU:HA	9:ID:257:MET:HE3	2.00	0.43
9:IF:87:PRO:HD3	8:JG:283:HIS:CG	2.54	0.43
9:IF:275:SER:O	9:IF:279:GLN:NE2	2.52	0.43
8:IG:7:ILE:O	8:IG:7:ILE:HG22	2.19	0.43
9:IH:65:LEU:HD11	9:IH:85:PHE:HD2	1.83	0.43
9:IH:252:LYS:HG2	8:II:100:ALA:HA	2.00	0.43
8:II:214:ARG:HG2	36:Y1:155:LYS:HZ2	1.81	0.43
8:IK:243:ARG:NH2	8:IK:244:PHE:HE2	2.15	0.43
8:IK:298:PRO:CG	36:Y1:106:TYR:CG	3.02	0.43
8:IK:298:PRO:HA	8:IK:301:GLN:HG2	2.01	0.43
9:IL:5:VAL:HB	9:IL:133:PHE:CD1	2.50	0.43
8:IO:215:ARG:HD3	36:Y1:45:LYS:NZ	2.33	0.43
9:IP:334:GLN:NE2	9:IP:348:ASN:H	2.15	0.43
19:J1:253:THR:HG22	19:J1:255:ALA:H	1.83	0.43
19:J3:88:TYR:CE2	8:OG:372:GLN:HB3	2.54	0.43
19:J4:216:TYR:OH	9:KN:262:ARG:NH1	2.52	0.43
19:J5:28:ILE:HG23	19:J5:30:PRO:HD2	2.01	0.43
19:J5:83:PHE:CE2	19:J5:85:TYR:HD1	2.36	0.43
9:JB:384:GLN:O	9:JB:388:MET:HE1	2.18	0.43
9:JD:12:CYS:SG	9:JD:16:ILE:HD11	2.58	0.43
8:JE:88:HIS:CE1	8:JE:90:GLU:HG2	2.54	0.43
9:JN:226:ASN:OD1	52:JN:502:GDP:N1	2.48	0.43
9:JP:208:TYR:CZ	9:JP:225:LEU:HD11	2.53	0.43
9:JP:344:TRP:CD1	9:JP:345:ILE:HG13	2.54	0.43
8:JQ:311:LYS:HD3	8:JQ:344:VAL:HG12	2.00	0.43
20:K1:17:HIS:O	20:K1:21:ILE:HG12	2.19	0.43
9:KB:344:TRP:H	9:KB:344:TRP:CD1	2.36	0.43
8:KC:285:GLN:OE1	8:KC:286:LEU:N	2.50	0.43
8:KO:15:GLN:HA	8:KO:18:ASN:OD1	2.19	0.43
8:KO:91:GLN:HE21	8:KO:125:LEU:HD11	1.83	0.43
21:L1:62:ALA:HB1	9:VF:217:LEU:HD12	2.01	0.43
8:LA:384:ILE:HG23	8:LA:388:TRP:HZ3	1.84	0.43
8:LC:36:MET:HB2	8:LC:61:HIS:CE1	2.53	0.43
8:LC:203:MET:HE3	8:LC:203:MET:HB3	1.86	0.43
8:LE:239:THR:HB	8:LE:243:ARG:NH1	2.33	0.43
8:LE:329:ASN:HD22	9:LF:175:VAL:HG21	1.82	0.43
9:LH:180:VAL:HG13	9:LH:184:ASN:HD21	1.83	0.43
9:LJ:215:LEU:HD21	9:LJ:273:LEU:HB3	2.00	0.43
9:LJ:380:ARG:HA	9:LJ:383:GLU:HG3	2.01	0.43
8:LO:317:MET:HE3	8:LO:317:MET:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LO:353:VAL:HG22	9:LP:177:ASP:HB2	2.01	0.43
9:LP:31:ASP:OD2	9:LP:35:THR:OG1	2.32	0.43
9:LP:309:ARG:H	9:LP:372:THR:HB	1.84	0.43
9:LP:330:MET:HE3	9:LP:349:VAL:HB	1.99	0.43
8:MC:345:ASP:N	8:MC:345:ASP:OD1	2.51	0.43
9:MD:337:ASN:OD1	43:i:48:THR:N	2.39	0.43
8:ME:7:ILE:HB	8:ME:137:ILE:HG12	2.00	0.43
8:ME:171:ILE:HD13	8:ME:204:VAL:HG13	2.01	0.43
9:MF:109:GLY:O	9:MF:113:VAL:HG13	2.19	0.43
9:MH:381:ILE:HB	9:MH:415:MET:HE1	1.99	0.43
8:MI:429:GLU:O	8:MI:433:GLU:HG2	2.18	0.43
8:MM:120:ASP:OD2	8:MM:124:LYS:HG3	2.18	0.43
9:MN:279:GLN:HE22	23:Q:366:PRO:HD2	1.84	0.43
8:MO:385:ALA:HA	8:MO:388:TRP:HZ3	1.84	0.43
15:N2:168:ASP:HB3	15:N2:193:LEU:HD13	2.01	0.43
15:N2:188:ASP:OD1	15:N2:188:ASP:N	2.52	0.43
8:NC:8:HIS:CD2	8:NC:8:HIS:H	2.35	0.43
8:NC:188:ILE:HG13	8:NC:395:PHE:CG	2.53	0.43
9:ND:229:VAL:HG12	9:ND:233:MET:CE	2.49	0.43
9:ND:229:VAL:HG12	9:ND:233:MET:HE3	2.00	0.43
9:ND:271:ALA:HB2	9:ND:293:MET:HG2	2.01	0.43
8:NE:264:ARG:NH1	8:NE:431:ASP:OD2	2.51	0.43
9:NF:5:VAL:HB	9:NF:133:PHE:CD1	2.53	0.43
9:NF:65:LEU:HD12	9:NF:65:LEU:H	1.83	0.43
9:NH:392:LYS:HD2	9:NH:395:LEU:HD23	2.00	0.43
9:NL:32:PRO:HA	9:NL:84:ILE:HD11	1.99	0.43
9:NL:132:GLY:HA3	9:NL:163:ILE:HG13	2.00	0.43
8:NM:377:MET:SD	8:NM:378:LEU:N	2.92	0.43
9:NN:87:PRO:HD3	9:ON:281:TYR:CD2	2.53	0.43
9:NN:237:THR:HA	9:NN:240:LEU:HD13	2.00	0.43
8:NO:55:GLU:HA	8:NO:61:HIS:HA	2.01	0.43
25:O5:218:GLU:OE1	25:O5:221:ARG:NH2	2.42	0.43
9:OB:30:ILE:HG13	9:OB:51:TYR:HE1	1.82	0.43
9:OB:316:VAL:O	9:OB:366:THR:N	2.42	0.43
8:OC:288:VAL:O	8:OC:292:THR:HG23	2.17	0.43
9:OD:113:VAL:HG11	9:OD:150:LEU:HD23	2.00	0.43
9:OD:237:THR:O	9:OD:241:ARG:HG3	2.19	0.43
8:OE:437:VAL:O	9:OF:391:ARG:NH2	2.46	0.43
9:OF:309:ARG:C	9:OF:371:SER:HG	2.27	0.43
8:OG:88:HIS:O	8:OG:91:GLN:HG2	2.18	0.43
9:OH:199:THR:N	9:OH:264:HIS:O	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OJ:87:PRO:HD3	9:PJ:281:TYR:CD2	2.54	0.43
8:OM:154:MET:HE3	8:OM:158:SER:HB2	1.99	0.43
8:OM:213:CYS:HA	8:OM:217:LEU:HD23	2.00	0.43
9:ON:31:ASP:HB3	9:ON:37:HIS:CD2	2.53	0.43
9:ON:54:ALA:HA	9:PN:283:ALA:HB2	1.99	0.43
27:P6:157:LEU:HB2	17:P9:56:LEU:CG	2.49	0.43
17:P8:66:GLU:HB3	11:R2:346:GLU:OE1	2.19	0.43
8:PC:338:LYS:HD3	8:PC:341:ILE:HG12	2.01	0.43
9:PD:170:VAL:HG11	9:PD:377:LEU:HD21	2.01	0.43
9:PF:86:ARG:HE	9:QF:281:TYR:HB2	1.84	0.43
9:PF:296:ALA:H	9:PF:306:ARG:HH21	1.67	0.43
9:PF:415:MET:SD	9:PF:418:LEU:HD13	2.58	0.43
8:PG:331:ALA:O	8:PG:335:ILE:HG12	2.18	0.43
8:PG:350:GLY:HA2	9:PH:179:VAL:HG13	2.01	0.43
9:PH:237:THR:HG22	9:PH:250:LEU:HD21	2.00	0.43
9:PJ:281:TYR:O	9:PJ:282:ARG:NH1	2.50	0.43
8:PK:231:ILE:O	8:PK:235:VAL:HG23	2.19	0.43
9:PL:217:LEU:HD21	9:PL:276:ARG:HH12	1.83	0.43
9:PL:325:GLU:HA	9:PL:328:GLU:HB3	2.01	0.43
8:PO:27:GLU:OE2	8:PO:236:SER:OG	2.20	0.43
28:Q1:79:LEU:HD23	28:Q1:79:LEU:HA	1.86	0.43
28:Q4:31:TYR:H	32:X3:207:ARG:NH1	2.16	0.43
9:QB:379:LYS:HD3	9:QB:419:VAL:HG11	2.01	0.43
8:QC:180:ALA:HB1	8:QC:182:VAL:HG12	2.00	0.43
8:QC:326:LYS:CE	9:QD:220:PRO:HD2	2.49	0.43
9:QD:50:TYR:CE2	9:QD:241:ARG:HD3	2.53	0.43
8:QE:111:GLY:O	8:QE:115:VAL:HG23	2.18	0.43
8:QG:1:MET:HB2	8:QG:1:MET:HE2	1.83	0.43
9:QH:8:GLN:HB3	9:QH:65:LEU:HA	2.00	0.43
9:QH:74:ASP:OD1	9:QH:74:ASP:N	2.51	0.43
9:QJ:198:GLU:HB2	9:QJ:266:PHE:HE2	1.83	0.43
9:QN:280:GLN:HG3	9:QN:281:TYR:CZ	2.53	0.43
9:QN:404:ASP:OD1	9:QN:404:ASP:N	2.48	0.43
8:QO:338:LYS:HD3	8:QO:341:ILE:HG12	2.00	0.43
9:QP:267:MET:HE1	9:QP:299:MET:HE3	1.99	0.43
11:R2:23:LEU:HA	11:R2:26:THR:HG22	2.00	0.43
11:R2:269:LEU:O	11:R2:273:GLU:HG3	2.19	0.43
11:R3:214:THR:OG1	11:R3:215:LEU:N	2.51	0.43
8:RC:263:PRO:HG3	9:RD:396:HIS:CD2	2.53	0.43
9:RF:14:ASN:HD22	9:RF:65:LEU:HD23	1.83	0.43
9:RF:50:TYR:CE2	9:RF:241:ARG:HD3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RG:72:PRO:HD3	8:RG:95:GLY:O	2.18	0.43
9:RH:48:ASN:O	9:RH:62:ARG:NH2	2.51	0.43
8:RI:27:GLU:OE1	8:RI:358:GLN:NE2	2.51	0.43
8:RI:258:ASN:OD1	9:RJ:179:VAL:N	2.47	0.43
9:RJ:68:LEU:HB3	9:RJ:96:GLY:HA2	1.99	0.43
9:RJ:139:LEU:HD12	9:RJ:170:VAL:HG23	2.00	0.43
9:RJ:325:GLU:HB2	8:RK:221:ARG:NH2	2.33	0.43
8:RK:12:ALA:O	8:RK:16:ILE:HG23	2.19	0.43
9:RL:73:MET:HA	9:RL:76:VAL:HB	1.99	0.43
9:RL:331:LEU:HD13	8:RM:176:GLN:HE21	1.83	0.43
8:RO:71:GLU:OE1	8:RO:71:GLU:N	2.52	0.43
12:S1:71:ARG:HH21	12:S1:74:ARG:HG2	1.84	0.43
12:S2:111:ASN:O	12:S2:115:HIS:ND1	2.52	0.43
12:S5:176:ASP:HA	12:S5:179:ARG:HE	1.82	0.43
12:S5:177:ILE:HG12	12:S5:180:ARG:HH21	1.83	0.43
12:S6:145:ASN:HA	12:S6:148:GLU:OE1	2.18	0.43
12:S7:368:THR:O	12:S7:372:ILE:HG23	2.18	0.43
9:SB:162:ARG:HH21	9:SB:251:ARG:HH22	1.66	0.43
9:SB:198:GLU:HG2	9:SB:200:TYR:CE1	2.54	0.43
9:SB:252:LYS:HE3	9:SB:350:LYS:HE3	2.01	0.43
9:SB:276:ARG:HD3	9:SB:276:ARG:HA	1.73	0.43
9:SB:305:PRO:HA	9:SB:373:ALA:HB2	2.00	0.43
9:SD:87:PRO:HD3	9:TD:281:TYR:CD2	2.54	0.43
8:SE:117:LEU:HD12	8:SE:117:LEU:H	1.83	0.43
8:SE:226:ASN:ND2	8:SE:367:ASP:OD2	2.48	0.43
8:SG:346:TRP:CE2	9:SH:391:ARG:HG3	2.54	0.43
8:SG:394:LYS:HA	8:SG:397:LEU:HG	2.00	0.43
8:SI:166:LYS:N	8:SI:199:ASP:OD2	2.49	0.43
9:SJ:386:THR:O	9:SJ:390:ARG:HG2	2.19	0.43
9:SJ:403:MET:HG2	9:SJ:404:ASP:O	2.19	0.43
9:SL:198:GLU:HG2	9:SL:200:TYR:CZ	2.54	0.43
9:SL:316:VAL:O	9:SL:366:THR:N	2.37	0.43
9:SN:376:GLU:HG2	9:SN:380:ARG:NH1	2.29	0.43
14:T1:225:ASP:OD1	14:T1:225:ASP:N	2.51	0.43
14:T1:308:CYS:HB3	14:T1:427:ARG:HH22	1.83	0.43
14:T3:204:ASN:ND2	14:T3:271:GLU:OE1	2.52	0.43
14:T4:73:TYR:HA	14:T4:76:ARG:CZ	2.49	0.43
9:TH:375:GLN:HA	9:TH:378:PHE:HD2	1.84	0.43
8:TI:53:PHE:HE1	8:TI:63:PRO:HG3	1.84	0.43
8:TK:102:ASN:ND2	8:TK:105:ARG:HG3	2.34	0.43
8:TM:136:LEU:HD12	8:TM:138:PHE:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TN:285:THR:HB	9:TN:287:PRO:HD2	2.01	0.43
25:U:354:PHE:CE1	25:U:358:LYS:HD2	2.53	0.43
30:U0:134:MET:SD	30:U0:134:MET:N	2.85	0.43
30:U3:73:ARG:HB3	30:U3:74:ARG:H	1.59	0.43
30:U3:430:LEU:HD21	30:U4:127:LYS:HE2	2.00	0.43
30:U5:346:ARG:NE	30:U5:465:ASP:OD2	2.52	0.43
30:U6:180:ALA:HB1	30:U6:229:MET:HE3	1.99	0.43
30:U7:352:ASP:OD1	30:V2:333:TRP:NE1	2.52	0.43
8:UA:88:HIS:CD2	8:UA:121:ARG:HH12	2.36	0.43
8:UK:202:PHE:HZ	8:UK:378:LEU:HD22	1.83	0.43
8:UK:252:LEU:HA	8:UK:255:PHE:CZ	2.54	0.43
30:V0:381:ALA:O	30:V0:385:LYS:HG2	2.18	0.43
30:V3:177:LEU:HD21	30:V3:232:LEU:HB3	2.01	0.43
30:V3:363:LYS:CE	30:V4:110:ARG:HH21	2.31	0.43
30:V5:227:ASP:HA	30:V5:230:ARG:HD2	2.00	0.43
30:V8:225:CYS:O	30:V8:229:MET:HG2	2.19	0.43
9:VD:69:GLU:HG2	9:VD:71:GLY:H	1.82	0.43
9:VF:344:TRP:CE3	8:VG:401:LYS:HE3	2.53	0.43
8:VG:408:TYR:HB3	8:VG:413:MET:SD	2.58	0.43
9:VH:86:ARG:HA	9:WH:281:TYR:CD2	2.54	0.43
9:VH:276:ARG:NH2	39:b:511:ARG:HH12	2.16	0.43
8:VI:282:TYR:CE2	39:b:479:ARG:HD3	2.51	0.43
9:VJ:285:THR:HB	9:VJ:287:PRO:HD2	2.01	0.43
8:VM:7:ILE:HD11	8:VM:135:PHE:CD1	2.53	0.43
31:W:597:GLN:N	31:W:597:GLN:OE1	2.52	0.43
30:W5:159:GLU:HG3	30:W5:304:ILE:HG23	2.00	0.43
30:W5:195:LEU:HD23	30:W5:195:LEU:HA	1.82	0.43
30:W5:328:LEU:O	30:W5:332:MET:HG3	2.18	0.43
30:W7:455:LEU:HD23	30:W7:455:LEU:HA	1.82	0.43
8:WA:108:TYR:HD2	8:WA:413:MET:HE2	1.82	0.43
8:WC:322:ASP:OD1	8:WC:373:ARG:NH2	2.50	0.43
9:WD:310:TYR:CD1	9:WD:371:SER:HB2	2.54	0.43
9:WD:377:LEU:HA	9:WD:380:ARG:NE	2.31	0.43
8:WE:259:LEU:HD22	8:WE:268:PRO:HG2	1.99	0.43
8:WI:96:LYS:HA	8:WI:96:LYS:HD3	1.87	0.43
8:WK:136:LEU:H	8:WK:136:LEU:HD23	1.84	0.43
8:WK:136:LEU:HB2	8:WK:138:PHE:HE1	1.84	0.43
8:WK:163:LYS:HG2	37:YF:71:HIS:CE1	2.54	0.43
9:WL:270:PHE:HD2	9:WL:273:LEU:HD21	1.83	0.43
9:WN:86:ARG:HH21	9:WN:88:ASP:CG	2.25	0.43
9:WN:392:LYS:HD3	9:WN:395:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WP:395:LEU:O	9:WP:399:THR:OG1	2.34	0.43
9:WP:403:MET:HG3	9:WP:407:GLU:OE2	2.18	0.43
35:XC:107:ASN:HA	35:XC:123:MET:O	2.19	0.43
36:Y5:240:ILE:HA	36:Y5:240:ILE:HD12	1.79	0.43
37:YA:174:TYR:HD2	37:YA:227:ASN:HB2	1.84	0.43
37:YD:22:VAL:HB	37:YD:38:ARG:NH1	2.34	0.43
37:YE:102:GLU:OE2	37:YE:104:THR:OG1	2.25	0.43
37:YF:65:PHE:HB3	37:YF:67:ILE:HG23	2.00	0.43
37:YH:159:LEU:O	37:YH:162:SER:OG	2.34	0.43
40:a4:100:LEU:HD23	40:a4:138:LEU:HD21	2.00	0.43
39:b:530:LEU:HB3	39:b:535:CYS:SG	2.59	0.43
41:b1:425:HIS:O	41:b1:429:MET:HG2	2.18	0.43
41:b5:236:PHE:O	41:b5:240:GLU:HG2	2.19	0.43
41:b5:292:ALA:O	41:b5:295:LYS:HG2	2.19	0.43
41:b5:338:GLN:NE2	41:b5:342:GLU:OE2	2.52	0.43
42:e:141:SER:HB2	42:e:148:ILE:HD11	2.00	0.43
42:f:47:VAL:HG12	42:f:63:HIS:CE1	2.54	0.43
42:f:468:ARG:HG3	42:f:510:TYR:CD2	2.54	0.43
46:i3:1459:LYS:HG2	46:i3:1507:TYR:OH	2.19	0.43
46:i4:1431:MET:SD	46:i4:1432:GLU:N	2.92	0.43
47:o:66:LEU:O	47:o:69:GLU:HG3	2.19	0.43
3:3:321:LEU:HB2	9:GF:276:ARG:HD2	2.01	0.43
3:3:341:ILE:HG13	3:3:341:ILE:H	1.53	0.43
3:4:440:ARG:O	3:4:443:LEU:HD12	2.19	0.43
4:6:159:HIS:HA	4:6:162:ARG:HG2	2.01	0.43
4:6:274:GLY:HA2	4:6:277:LEU:HD12	2.00	0.43
7:A4:205:VAL:HG13	7:A4:207:ILE:HB	1.99	0.43
8:AA:317:MET:O	8:AA:354:GLY:N	2.49	0.43
8:AA:326:LYS:HG3	8:AA:327:ASP:N	2.34	0.43
8:AC:347:CYS:HA	9:AD:388:MET:HE1	2.00	0.43
9:AD:238:THR:HG21	9:AD:318:ARG:HE	1.84	0.43
8:AE:221:ARG:HB3	33:X4:162:SER:OG	2.17	0.43
8:AG:175:PRO:CB	8:AG:390:ARG:NH1	2.77	0.43
9:AL:420:SER:O	9:AL:423:GLN:HG2	2.19	0.43
8:AM:388:TRP:HB2	8:AM:429:GLU:OE1	2.18	0.43
9:AN:21:TRP:CE3	9:AN:24:ILE:HD11	2.54	0.43
9:AN:270:PHE:CE1	9:AN:272:PRO:HD2	2.53	0.43
11:B4:202:LYS:HD3	11:B4:202:LYS:HA	1.70	0.43
11:B4:345:LEU:HD23	11:B4:345:LEU:HA	1.85	0.43
9:BB:319:GLY:HA2	9:BB:357:PRO:HG3	2.00	0.43
8:BC:107:HIS:HA	8:BC:152:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BE:231:ILE:HA	8:BE:234:ILE:HD12	2.00	0.43
8:BI:7:ILE:HD12	8:BI:7:ILE:HG23	1.74	0.43
8:BM:298:PRO:HB3	8:BM:307:PRO:HD2	2.00	0.43
8:BO:22:GLU:O	8:BO:26:LEU:HG	2.18	0.43
8:BO:141:PHE:HB2	8:BO:173:PRO:HD3	2.00	0.43
9:BP:130:LEU:O	9:BP:162:ARG:NH2	2.38	0.43
9:BP:305:PRO:HA	9:BP:373:ALA:HB2	2.01	0.43
12:C2:97:ASP:O	12:C2:101:ARG:HG2	2.18	0.43
12:C3:83:PHE:HE1	12:C4:200:PHE:HB2	1.83	0.43
12:C4:293:THR:HB	12:C5:413:ARG:NH2	2.33	0.43
9:CB:111:GLU:OE1	9:CB:111:GLU:N	2.38	0.43
8:CC:84:ARG:HH11	40:a1:98:LYS:HE2	1.84	0.43
8:CC:223:THR:HG23	8:CC:225:THR:N	2.34	0.43
9:CD:306:ARG:NE	9:CD:306:ARG:HA	2.34	0.43
9:CF:23:VAL:O	9:CF:27:GLU:HG2	2.18	0.43
8:CG:151:SER:HA	8:CG:193:THR:HG21	1.99	0.43
9:CJ:27:GLU:CD	9:CJ:318:ARG:HH12	2.27	0.43
8:CM:158:SER:O	8:CM:162:GLY:HA2	2.18	0.43
8:CM:259:LEU:HD23	8:CM:268:PRO:HG2	2.00	0.43
9:CN:236:VAL:HG13	9:CN:237:THR:HG23	2.00	0.43
9:CP:406:MET:N	9:CP:406:MET:SD	2.91	0.43
8:DC:6:SER:C	8:DC:7:ILE:HD13	2.43	0.43
9:DD:156:ARG:HD3	9:DD:164:MET:HG3	1.99	0.43
9:DD:197:ASP:OD1	9:DD:197:ASP:N	2.49	0.43
9:DD:252:LYS:NZ	50:DE:501:GTP:O3G	2.38	0.43
8:DE:141:PHE:HB2	8:DE:173:PRO:HD3	1.99	0.43
9:DJ:321:MET:HE3	9:DJ:321:MET:HB3	1.77	0.43
9:DL:30:ILE:HD11	9:DL:47:ILE:HD11	1.99	0.43
9:DL:192:LEU:HD21	9:DL:199:THR:HG21	2.00	0.43
8:DM:52:PHE:CE2	8:DM:243:ARG:HD3	2.53	0.43
8:DM:151:SER:HA	8:DM:193:THR:HG21	2.01	0.43
9:DN:1:MET:HA	9:DN:1:MET:HE2	2.01	0.43
8:DQ:271:THR:HB	8:DQ:377:MET:HB3	2.01	0.43
8:DQ:430:LYS:HA	8:DQ:430:LYS:HD3	1.76	0.43
9:EB:58:LYS:HZ2	9:FB:280:GLN:C	2.24	0.43
9:ED:97:ALA:HA	9:ED:103:LYS:HD2	2.01	0.43
9:ED:163:ILE:HD11	9:ED:251:ARG:HB2	2.01	0.43
8:EM:88:HIS:CE1	8:EM:121:ARG:HH21	2.36	0.43
9:EN:28:HIS:CE1	9:EN:47:ILE:HG22	2.54	0.43
9:EN:249:ASP:H	9:EN:252:LYS:HB3	1.84	0.43
9:FD:128:ASP:HB3	36:Y2:232:CYS:SG	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FG:91:GLN:HA	8:FG:121:ARG:NH1	2.33	0.43
8:FI:91:GLN:HA	8:FI:121:ARG:HH12	1.83	0.43
8:FI:311:LYS:H	8:FI:382:THR:HG22	1.83	0.43
9:FN:404:ASP:OD1	9:FN:404:ASP:N	2.52	0.43
8:FO:108:TYR:CE2	8:FO:413:MET:HB3	2.54	0.43
9:GB:58:LYS:HA	9:GB:58:LYS:HD2	1.88	0.43
9:GD:320:ARG:HH11	49:y:90:SER:HA	1.84	0.43
8:GE:340:THR:HB	36:Y2:220:ALA:HB1	2.01	0.43
9:GH:180:VAL:HG22	9:GH:183:TYR:HB2	2.00	0.43
8:GI:204:VAL:HG12	8:GI:302:MET:CE	2.48	0.43
8:GI:280:LYS:HA	8:GI:280:LYS:HD3	1.77	0.43
9:GJ:89:ASN:ND2	9:GJ:123:GLU:OE2	2.51	0.43
9:GJ:163:ILE:CG2	9:GJ:250:LEU:HD21	2.45	0.43
9:GJ:198:GLU:HG3	9:GJ:266:PHE:CE2	2.53	0.43
8:GK:241:SER:OG	8:GK:250:VAL:O	2.25	0.43
9:GL:196:THR:HG22	9:GL:198:GLU:H	1.84	0.43
8:GM:21:TRP:HE1	8:GM:65:ALA:HB2	1.83	0.43
8:GM:185:TYR:OH	8:GM:398:MET:HB3	2.19	0.43
17:H:291:SER:HB2	17:H:310:LYS:NZ	2.34	0.43
8:HA:325:PRO:HA	8:HA:328:VAL:HB	2.01	0.43
9:HB:146:GLY:O	9:HB:149:THR:OG1	2.29	0.43
8:HC:154:MET:HA	8:HC:154:MET:HE2	2.01	0.43
9:HD:226:ASN:ND2	52:HD:502:GDP:O6	2.51	0.43
8:HE:233:GLN:NE2	8:HE:368:LEU:HD21	2.34	0.43
9:HF:83:GLN:O	9:IF:281:TYR:OH	2.26	0.43
8:HG:157:LEU:HD12	8:HG:160:ASP:HB2	2.00	0.43
8:HG:324:VAL:HG12	8:HG:326:LYS:H	1.82	0.43
8:HI:125:LEU:HD23	8:HI:125:LEU:HA	1.78	0.43
8:HK:68:VAL:HG21	8:HK:118:VAL:HG11	2.01	0.43
8:IA:56:THR:HG21	9:JB:281:TYR:HD1	1.83	0.43
8:IA:318:LEU:HB2	8:IA:376:CYS:HB3	2.00	0.43
8:IC:325:PRO:HA	8:IC:328:VAL:HB	2.01	0.43
8:IE:259:LEU:HD23	8:IE:259:LEU:HA	1.88	0.43
8:IG:19:ALA:O	8:IG:22:GLU:HG2	2.19	0.43
9:IH:45:GLU:C	9:IH:46:ARG:HD2	2.44	0.43
9:IH:167:PHE:CG	9:IH:233:MET:HE3	2.54	0.43
9:IH:299:MET:HE1	9:IH:367:PHE:HD2	1.84	0.43
8:II:419:SER:O	8:II:423:GLU:HG2	2.19	0.43
8:IM:63:PRO:HD3	8:IM:86:LEU:HD11	2.00	0.43
8:IM:262:TYR:OH	9:IN:391:ARG:O	2.33	0.43
9:IN:378:PHE:HD1	9:IN:415:MET:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IO:21:TRP:CZ2	8:IO:65:ALA:HB2	2.54	0.43
8:IO:88:HIS:N	8:IO:91:GLN:OE1	2.51	0.43
8:IO:295:CYS:HB3	8:IO:377:MET:HE2	2.00	0.43
19:J2:54:ARG:HG3	19:J2:57:MET:SD	2.59	0.43
19:J2:249:ALA:HB2	45:m:85:THR:HG22	2.00	0.43
19:J3:116:LEU:H	19:J3:148:ARG:NH1	2.16	0.43
19:J4:228:PRO:HA	19:J4:229:PRO:HD3	1.81	0.43
9:JB:24:ILE:HG13	9:JB:51:TYR:OH	2.19	0.43
9:JB:193:VAL:HA	9:JB:264:HIS:HE2	1.82	0.43
9:JD:163:ILE:HD11	9:JD:251:ARG:HE	1.82	0.43
8:JE:132:LEU:O	8:JE:164:LYS:NZ	2.40	0.43
9:JF:289:LEU:O	9:JF:292:GLN:N	2.52	0.43
8:JG:217:LEU:HB3	8:JG:219:ILE:HG12	2.00	0.43
9:JH:256:ASN:HD21	8:JI:181:VAL:H	1.67	0.43
9:JH:285:THR:OG1	9:JH:287:PRO:HD2	2.19	0.43
9:JJ:273:LEU:H	9:JJ:292:GLN:HE22	1.65	0.43
9:JJ:330:MET:HB3	9:JJ:349:VAL:HG11	2.00	0.43
8:JK:111:GLY:O	8:JK:115:VAL:HG23	2.19	0.43
8:JK:333:ALA:O	8:JK:337:THR:HG22	2.19	0.43
8:KG:19:ALA:O	8:KG:229:ARG:NH2	2.51	0.43
9:KH:10:GLY:O	9:KH:14:ASN:N	2.39	0.43
9:KJ:297:LYS:HE3	9:KJ:297:LYS:HB3	1.74	0.43
8:KK:231:ILE:O	8:KK:235:VAL:HG23	2.19	0.43
8:KM:195:LEU:HA	8:KM:266:HIS:NE2	2.34	0.43
9:KN:391:ARG:O	9:KN:392:LYS:HG2	2.18	0.43
21:L1:127:ARG:NH1	21:L1:131:VAL:H	2.16	0.43
9:LB:119:VAL:O	9:LB:122:LYS:HB2	2.18	0.43
9:LB:154:LYS:HE2	9:LB:154:LYS:HB3	1.65	0.43
8:LC:430:LYS:HE2	8:LC:430:LYS:HB2	1.68	0.43
9:LD:68:LEU:HD23	9:LD:112:LEU:HD22	1.99	0.43
9:LH:178:THR:HB	9:LH:181:GLU:HB2	2.00	0.43
9:LL:152:ILE:O	9:LL:156:ARG:HG2	2.18	0.43
8:LM:338:LYS:HZ3	41:b4:382:LEU:HD12	1.84	0.43
9:MB:318:ARG:HD3	9:MB:358:PRO:HD3	2.01	0.43
9:MD:115:SER:HA	9:MD:118:ASP:OD1	2.18	0.43
9:MD:248:ALA:HA	9:MD:252:LYS:HD3	2.01	0.43
9:MD:337:ASN:ND2	43:i:49:MET:H	2.16	0.43
9:MH:39:ASP:HB3	25:V:76:PRO:HB3	1.99	0.43
8:MK:47:ASP:OD1	31:Y:24:GLN:N	2.51	0.43
9:ML:36:TYR:CD2	9:ML:44:LEU:HD13	2.54	0.43
9:ML:279:GLN:HB3	23:P:70:HIS:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ML:290:THR:HG21	9:ML:329:GLN:HB3	1.99	0.43
9:ML:361:LEU:HD12	9:ML:361:LEU:HA	1.82	0.43
8:NC:51:THR:HG21	8:NC:243:ARG:HG2	2.01	0.43
8:NE:88:HIS:CE1	8:OE:284:GLU:HG2	2.54	0.43
8:NE:111:GLY:O	8:NE:115:VAL:HG23	2.18	0.43
9:NJ:272:PRO:HG3	9:NJ:364:SER:HA	1.99	0.43
8:NK:425:LEU:HD12	8:NK:428:LEU:HD23	2.00	0.43
9:NL:397:TRP:H	9:NL:397:TRP:CD1	2.37	0.43
8:NO:239:THR:O	8:NO:242:LEU:HG	2.19	0.43
9:OB:263:LEU:HD22	9:OB:422:TYR:HD2	1.84	0.43
8:OG:263:PRO:HG3	9:OH:396:HIS:CD2	2.54	0.43
8:OG:319:TYR:CE2	8:OG:328:VAL:HG22	2.54	0.43
8:OI:154:MET:HE1	8:OI:166:LYS:HD2	2.00	0.43
8:OM:207:GLU:HG2	8:OM:304:LYS:HE2	2.00	0.43
27:P3:177:PRO:HG2	27:P3:180:GLN:HB3	2.00	0.43
27:P6:11:HIS:CD2	27:P6:12:VAL:HG23	2.54	0.43
27:P6:163:ARG:HH12	30:U3:316:ARG:HB3	1.83	0.43
8:PC:387:ALA:O	8:PC:390:ARG:HG3	2.18	0.43
9:PF:86:ARG:HD3	9:PF:88:ASP:N	2.29	0.43
8:PG:34:GLY:O	8:PG:61:HIS:ND1	2.44	0.43
8:PI:137:ILE:HG13	8:PI:168:GLU:HA	1.99	0.43
8:PI:312:TYR:CE1	8:PI:379:SER:HB2	2.54	0.43
9:PJ:246:LEU:HA	8:PK:11:GLN:HE22	1.83	0.43
8:PK:250:VAL:HG13	8:PK:254:GLU:HB2	2.00	0.43
8:PM:6:SER:HB3	8:PM:8:HIS:CD2	2.53	0.43
9:PN:150:LEU:HG	9:PN:154:LYS:HE2	2.01	0.43
9:PN:267:MET:HE3	9:PN:374:ILE:HB	2.01	0.43
28:Q2:143:GLN:HG2	12:S7:443:ASP:OD1	2.18	0.43
9:QB:358:PRO:HD3	9:QB:364:SER:HB2	2.01	0.43
8:QC:70:LEU:HD12	8:QC:70:LEU:O	2.18	0.43
8:QC:79:ARG:HH21	8:QC:94:THR:HG23	1.83	0.43
8:QE:83:TYR:HB3	8:QE:86:LEU:HB3	2.00	0.43
9:QF:406:MET:HE3	9:QF:406:MET:O	2.19	0.43
9:QH:19:LYS:NZ	9:QH:227:HIS:ND1	2.64	0.43
9:QH:87:PRO:HD3	9:RH:281:TYR:CE2	2.54	0.43
8:QK:166:LYS:N	8:QK:199:ASP:OD2	2.42	0.43
9:QL:231:ALA:HB1	9:QL:270:PHE:CE2	2.54	0.43
8:QO:135:PHE:HD2	8:QO:166:LYS:HG2	1.83	0.43
8:QO:141:PHE:CE2	8:QO:172:TYR:HD1	2.36	0.43
11:R0:360:GLN:HG2	14:T4:237:GLN:HA	1.99	0.43
11:R4:364:ASP:HA	11:R4:367:PHE:HD2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RC:167:LEU:HD23	8:RC:202:PHE:HE2	1.84	0.43
8:RC:253:THR:O	8:RC:257:THR:HG23	2.18	0.43
9:RD:323:MET:HE1	9:RD:353:VAL:HG21	2.00	0.43
8:RE:76:ASP:HA	8:RE:79:ARG:NE	2.33	0.43
9:RF:293:MET:HE1	9:RF:294:PHE:CD2	2.53	0.43
9:RF:324:LYS:HB2	8:RG:221:ARG:NH2	2.34	0.43
9:RH:7:LEU:HD13	9:RH:64:VAL:HB	1.99	0.43
9:RJ:221:THR:N	9:RJ:224:ASP:OD2	2.52	0.43
8:RK:111:GLY:O	8:RK:115:VAL:HG23	2.19	0.43
8:RM:17:GLY:O	8:RM:21:TRP:HB2	2.19	0.43
9:RN:363:MET:HA	9:RN:363:MET:HE3	2.01	0.43
9:RN:375:GLN:NE2	9:RN:423:GLN:OE1	2.51	0.43
8:RO:349:THR:OG1	9:RP:181:GLU:OE2	2.31	0.43
29:S:103:LYS:HB2	29:S:106:THR:HG23	2.01	0.43
12:S0:121:ARG:NH1	12:S1:375:ILE:HA	2.34	0.43
12:S0:196:ARG:O	12:S0:199:LEU:HD12	2.19	0.43
12:S2:375:ILE:HG23	12:S2:445:LEU:HD12	2.01	0.43
12:S3:269:ASP:O	12:S3:272:GLN:HG3	2.17	0.43
12:S6:270:LYS:HD2	12:S6:274:LEU:HD13	2.00	0.43
12:S6:434:LEU:HD12	12:S6:434:LEU:HA	1.91	0.43
12:S8:176:ASP:HA	12:S8:179:ARG:NE	2.34	0.43
12:S9:176:ASP:O	12:S9:180:ARG:HG2	2.19	0.43
9:SD:138:SER:HA	9:SD:169:VAL:HB	2.00	0.43
8:SE:362:VAL:HG13	8:SE:370:LYS:HD3	2.00	0.43
9:SF:317:PHE:HB2	9:SF:321:MET:HE1	2.00	0.43
9:SF:344:TRP:CD1	8:SG:401:LYS:HD2	2.54	0.43
9:SF:395:LEU:C	9:SF:399:THR:HG1	2.27	0.43
9:SH:282:ARG:CZ	9:SH:284:LEU:HD21	2.48	0.43
8:SI:320:ARG:HH21	8:SI:360:PRO:HA	1.84	0.43
8:SM:53:PHE:HB3	8:SM:61:HIS:HB3	2.00	0.43
8:SM:297:GLU:HG3	8:SM:299:ALA:H	1.84	0.43
8:TC:54:SER:HB3	8:TC:64:ARG:CZ	2.48	0.43
8:TC:141:PHE:CE1	8:TC:203:MET:HE1	2.54	0.43
9:TF:49:VAL:HB	9:TF:241:ARG:HH21	1.84	0.43
9:TH:330:MET:HE1	8:TI:177:VAL:HG12	2.01	0.43
8:TI:1:MET:SD	8:TI:2:ARG:N	2.92	0.43
8:TI:332:ILE:HD11	8:TI:353:VAL:HG21	1.99	0.43
9:TJ:112:LEU:HB3	9:TJ:147:MET:HE2	1.99	0.43
9:TL:267:MET:N	9:TL:267:MET:SD	2.91	0.43
9:TN:66:VAL:HG11	9:TN:147:MET:HE1	2.01	0.43
30:U2:479:THR:O	30:U2:483:THR:OG1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U7:124:MET:HA	30:U7:127:LYS:NZ	2.33	0.43
30:U7:236:ILE:HG12	30:U7:317:LEU:HD23	2.01	0.43
30:U7:399:ARG:NH2	30:U7:413:GLN:HB2	2.34	0.43
8:UA:107:HIS:HA	8:UA:152:LEU:HD23	2.00	0.43
9:UB:31:ASP:OD1	9:UB:35:THR:N	2.52	0.43
9:UB:125:GLU:OE1	9:VB:336:LYS:NZ	2.44	0.43
9:UD:276:ARG:NE	9:UD:276:ARG:O	2.52	0.43
8:UE:239:THR:HG22	8:UE:243:ARG:HG3	2.01	0.43
9:UF:17:GLY:HA2	9:UF:20:PHE:HB3	2.01	0.43
8:UG:297:GLU:O	8:UG:301:GLN:NE2	2.37	0.43
9:UJ:8:GLN:CD	9:UJ:14:ASN:HA	2.44	0.43
8:UK:302:MET:HA	8:UK:302:MET:HE3	2.00	0.43
8:UM:259:LEU:HD21	8:UM:378:LEU:HB3	2.00	0.43
8:UO:6:SER:HB3	8:UO:8:HIS:CD2	2.54	0.43
25:V:346:ASP:OD1	25:V:347:CYS:N	2.51	0.43
30:V1:334:LYS:O	30:V1:338:ASN:N	2.41	0.43
30:V2:360:GLN:HG3	30:V2:451:LEU:HD21	2.00	0.43
30:V4:100:ASP:HA	30:V4:103:ILE:HG22	2.00	0.43
30:V5:240:ILE:HG22	30:V5:244:ARG:HE	1.83	0.43
30:V7:447:THR:HG22	30:V7:450:ARG:CZ	2.49	0.43
30:V8:247:GLN:NE2	30:V8:251:GLU:OE1	2.51	0.43
9:VB:21:TRP:CZ2	9:VB:63:ALA:HB2	2.54	0.43
9:VB:174:LYS:HE3	9:VB:174:LYS:HB3	1.84	0.43
9:VD:356:ILE:HD12	9:VD:356:ILE:HA	1.87	0.43
8:VE:172:TYR:N	8:VE:204:VAL:O	2.41	0.43
8:VG:191:THR:HB	8:VG:425:LEU:HD21	2.01	0.43
9:VH:313:VAL:HB	9:VH:349:VAL:HG22	2.00	0.43
9:VJ:165:ASN:ND2	9:VJ:200:TYR:OH	2.52	0.43
8:VK:313:MET:HG3	8:VK:344:VAL:HG11	2.01	0.43
8:VM:85:GLN:NE2	42:g:495:ARG:HH12	2.17	0.43
8:VM:315:CYS:HB3	8:VM:377:MET:HE2	1.99	0.43
31:W:437:PHE:HB3	31:W:524:ASN:HB3	2.00	0.43
30:W0:251:GLU:HA	30:W0:254:ILE:HD12	2.00	0.43
30:W0:353:VAL:HB	30:W0:458:LYS:HE2	1.99	0.43
30:W0:378:LEU:HD23	30:W0:378:LEU:HA	1.83	0.43
30:W7:474:LYS:HA	30:W7:474:LYS:HD3	1.81	0.43
9:WB:114:ASP:OD1	9:WB:115:SER:N	2.51	0.43
9:WB:252:LYS:HA	9:WB:252:LYS:HD2	1.80	0.43
9:WB:296:ALA:HA	9:WB:299:MET:CE	2.49	0.43
9:WB:325:GLU:OE2	8:WC:221:ARG:NH1	2.51	0.43
9:WD:146:GLY:O	9:WD:149:THR:OG1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WD:356:ILE:HD13	48:q:139:HIS:NE2	2.33	0.43
9:WF:170:VAL:HG11	9:WF:377:LEU:HD21	2.00	0.43
8:WG:191:THR:HG21	8:WG:425:LEU:HD11	2.01	0.43
9:WH:86:ARG:NH2	37:YD:197:TYR:OH	2.51	0.43
8:WI:324:VAL:HG12	8:WI:326:LYS:H	1.83	0.43
8:WK:23:LEU:O	8:WK:26:LEU:HD12	2.19	0.43
8:WK:27:GLU:OE2	8:WK:236:SER:OG	2.28	0.43
8:WK:103:TYR:HD2	8:WK:413:MET:HE1	1.83	0.43
8:WO:260:VAL:HB	9:WP:397:TRP:HZ2	1.82	0.43
34:X6:246:GLU:HA	34:X6:249:GLN:NE2	2.32	0.43
34:X8:17:THR:HA	34:X8:27:LYS:HG2	2.01	0.43
35:XA:171:LEU:HD23	35:XA:171:LEU:HA	1.69	0.43
35:XB:180:GLU:OE2	35:XB:180:GLU:N	2.38	0.43
35:XC:36:ARG:HD3	35:XC:47:LEU:HD22	1.99	0.43
35:XH:164:ARG:NH2	35:XH:181:PHE:HA	2.34	0.43
31:Y:91:ASP:O	31:Y:92:LYS:HG2	2.19	0.43
31:Y:103:LYS:HE3	31:Y:103:LYS:HB3	1.89	0.43
31:Y:453:VAL:CG2	31:Y:466:PHE:HD2	2.32	0.43
31:Y:559:SER:HA	31:Y:562:ILE:HD12	2.00	0.43
37:YE:84:ILE:O	37:YE:89:TYR:OH	2.28	0.43
39:a6:121:LYS:O	39:a6:121:LYS:HD3	2.18	0.43
39:b:321:GLU:O	39:b:324:ARG:NH2	2.52	0.43
39:b:531:PRO:HB2	39:b:534:TYR:CD1	2.53	0.43
41:b3:341:ARG:HB2	41:b3:341:ARG:HH11	1.82	0.43
39:c:130:ALA:HA	39:c:133:LYS:HE2	2.01	0.43
42:e:48:LEU:HG	42:e:59:PHE:CE2	2.53	0.43
43:h:218:ILE:HG22	43:h:223:LYS:HB3	2.00	0.43
43:h:226:ARG:HA	43:h:229:LYS:HD2	2.00	0.43
46:i2:1436:PHE:HD2	46:i2:1493:VAL:HA	1.84	0.43
47:o:61:ARG:O	47:o:65:VAL:HG12	2.19	0.43
2:1:495:ARG:CZ	4:5:367:THR:HA	2.48	0.43
2:2:331:ARG:NH1	8:HK:84:ARG:HG2	2.33	0.43
2:2:350:SER:HB3	9:IL:219:THR:H	1.84	0.43
3:3:458:GLN:O	3:3:462:ARG:HD3	2.19	0.43
8:AA:347:CYS:HA	9:AB:388:MET:HE1	1.99	0.43
8:AC:39:ASP:O	31:W:173:PHE:HB2	2.19	0.43
9:AD:251:ARG:HD2	8:AE:105:ARG:NH1	2.34	0.43
9:AF:6:HIS:NE2	9:AF:8:GLN:OE1	2.46	0.43
9:AJ:251:ARG:HD2	8:AK:105:ARG:NH1	2.34	0.43
9:AL:346:PRO:HD2	8:AM:398:MET:CE	2.48	0.43
8:AO:7:ILE:HD12	8:AO:7:ILE:HG23	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AP:304:ASP:HB3	9:AP:307:HIS:ND1	2.33	0.43
11:B0:39:ARG:HH12	11:B1:293:LEU:CA	2.31	0.43
11:B1:297:ILE:HG23	11:B1:356:LEU:HD11	1.99	0.43
11:B4:168:ILE:HG12	11:B4:228:ARG:NH2	2.33	0.43
9:BB:68:LEU:HD23	9:BB:68:LEU:HA	1.90	0.43
9:BF:326:VAL:O	9:BF:330:MET:HG2	2.19	0.43
9:BF:415:MET:HE3	9:BF:415:MET:HB3	1.70	0.43
8:BI:231:ILE:O	8:BI:235:VAL:HG23	2.19	0.43
9:BJ:41:ASP:OD2	17:L:275:ILE:N	2.44	0.43
9:BN:330:MET:HE3	9:BN:349:VAL:CG1	2.49	0.43
9:BP:318:ARG:HB3	9:BP:364:SER:HB2	1.99	0.43
12:C0:90:PHE:HB2	17:O8:183:ARG:CD	2.49	0.43
12:C0:253:GLU:OE1	12:C0:310:ARG:NH2	2.52	0.43
12:C6:77:GLU:HG3	12:S0:227:LEU:HD11	2.01	0.43
9:CB:203:ASP:O	9:CB:207:LEU:HG	2.18	0.43
9:CD:8:GLN:NE2	9:CD:65:LEU:HD23	2.33	0.43
8:CG:111:GLY:HA2	8:CG:149:PHE:CE2	2.53	0.43
8:CI:360:PRO:HG3	8:CI:374:ALA:HB2	2.01	0.43
8:CM:33:ASP:OD1	8:CM:34:GLY:N	2.51	0.43
8:CM:223:THR:OG1	8:CM:224:TYR:N	2.52	0.43
9:CN:146:GLY:O	9:CN:149:THR:OG1	2.36	0.43
9:CN:196:THR:HG21	9:CN:199:THR:OG1	2.19	0.43
8:CO:120:ASP:OD2	8:CO:124:LYS:NZ	2.44	0.43
8:CO:310:GLY:HA3	8:CO:383:ALA:HB2	2.00	0.43
8:CQ:22:GLU:O	8:CQ:26:LEU:HG	2.18	0.43
13:D:392:GLU:OE1	29:R:162:TRP:NE1	2.41	0.43
14:D2:169:ARG:HD2	12:S2:90:PHE:CE1	2.50	0.43
14:D3:265:LEU:HD23	14:D3:265:LEU:HA	1.86	0.43
14:D3:341:GLN:CD	25:V:61:GLU:HB2	2.43	0.43
9:DB:210:ILE:HD13	9:DB:210:ILE:HA	1.82	0.43
9:DB:271:ALA:HB1	9:DB:289:LEU:HD22	1.99	0.43
8:DE:211:ASP:HB3	8:DE:215:ARG:NH2	2.34	0.43
8:DI:50:ASN:OD1	8:DI:50:ASN:N	2.47	0.43
9:DJ:131:GLN:HE22	9:DJ:250:LEU:H	1.67	0.43
9:DN:48:ASN:OD1	9:DN:48:ASN:N	2.44	0.43
8:DO:82:THR:HG23	17:N:59:MET:HA	2.01	0.43
8:DO:316:CYS:HB3	8:DO:378:LEU:HB2	2.00	0.43
8:EC:191:THR:HA	8:EC:194:THR:HG22	2.01	0.43
9:EL:274:THR:HB	9:EL:278:SER:HB2	2.01	0.43
9:EL:299:MET:HE3	9:EL:300:MET:N	2.33	0.43
8:EM:121:ARG:HD2	8:EM:121:ARG:HA	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EM:132:LEU:HD23	8:EM:132:LEU:HA	1.81	0.43
8:FA:258:ASN:ND2	8:FA:352:LYS:HB2	2.29	0.43
9:FB:94:GLN:HE22	36:Y3:61:ALA:HA	1.83	0.43
9:FD:73:MET:SD	9:FD:74:ASP:N	2.92	0.43
8:FE:153:LEU:O	8:FE:157:LEU:N	2.50	0.43
9:FF:237:THR:HG22	9:FF:250:LEU:HD21	2.00	0.43
8:FI:298:PRO:HA	8:FI:301:GLN:HG2	1.99	0.43
9:FN:407:GLU:HA	9:FN:410:GLU:HG2	2.01	0.43
8:FO:103:TYR:HD2	8:FO:413:MET:HE1	1.84	0.43
8:FO:119:LEU:HD11	8:FO:156:ARG:HG2	2.01	0.43
8:FO:320:ARG:HG3	8:FO:356:ASN:HB3	2.01	0.43
9:GB:295:ASP:HB2	36:Y3:54:ARG:HB3	2.00	0.43
9:GB:330:MET:SD	9:GB:331:LEU:N	2.91	0.43
8:GC:239:THR:HB	8:GC:243:ARG:HH21	1.84	0.43
9:GD:258:VAL:HG23	8:GE:407:TRP:HE1	1.83	0.43
8:GE:135:PHE:HE2	8:GE:161:TYR:CD1	2.37	0.43
9:GH:211:CYS:SG	9:GH:220:PRO:HG3	2.59	0.43
8:GM:21:TRP:CZ2	8:GM:63:PRO:HB3	2.54	0.43
9:GN:272:PRO:HG3	9:GN:364:SER:HA	1.99	0.43
8:GO:250:VAL:HG13	8:GO:254:GLU:HB2	2.00	0.43
8:HA:141:PHE:HB2	8:HA:173:PRO:HD3	2.01	0.43
8:HK:123:ARG:HD3	8:HK:124:LYS:NZ	2.32	0.43
8:HM:259:LEU:HD21	8:HM:268:PRO:HG3	2.01	0.43
9:HP:72:THR:O	9:HP:75:SER:OG	2.31	0.43
9:HP:143:THR:OG1	9:HP:144:GLY:N	2.52	0.43
18:I1:131:PRO:HB2	18:I1:133:HIS:CE1	2.54	0.43
8:IC:215:ARG:HE	36:Y0:32:ILE:HD13	1.84	0.43
8:IE:88:HIS:HA	9:JF:281:TYR:CE2	2.54	0.43
8:IE:328:VAL:HG11	8:IE:353:VAL:HG11	2.00	0.43
9:IF:16:ILE:HD13	9:IF:226:ASN:HB3	2.00	0.43
9:IH:332:ASN:HA	9:IH:335:ASN:HD21	1.84	0.43
8:II:110:ILE:HA	8:II:113:GLU:OE2	2.19	0.43
8:II:348:PRO:HD2	9:IJ:388:MET:SD	2.58	0.43
9:IJ:198:GLU:HB2	9:IJ:266:PHE:HE2	1.83	0.43
9:IJ:379:LYS:HE2	9:IJ:379:LYS:HB3	1.84	0.43
8:IK:104:ALA:HB1	8:IK:411:GLU:OE1	2.18	0.43
9:IL:131:GLN:O	9:IL:163:ILE:HG12	2.18	0.43
19:J1:191:TRP:NE1	9:OB:280:GLN:HG2	2.34	0.43
19:J1:219:ARG:O	19:J1:223:LEU:HG	2.19	0.43
19:J1:233:ASP:OD1	19:J1:234:ALA:N	2.51	0.43
19:J2:200:GLN:O	19:J2:203:LYS:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J3:220:SER:HB2	9:KJ:156:ARG:NH2	2.34	0.43
19:J5:31:PRO:HA	19:J5:32:PRO:HD3	1.94	0.43
8:JC:4:CYS:HB3	8:JC:136:LEU:CD1	2.46	0.43
8:JC:325:PRO:HA	8:JC:328:VAL:HB	2.01	0.43
9:JD:252:LYS:HG3	9:JD:350:LYS:HZ3	1.82	0.43
9:JF:104:GLY:HA2	9:JF:108:GLU:OE2	2.18	0.43
9:JF:190:HIS:HA	9:JF:414:ASN:ND2	2.34	0.43
8:JG:230:LEU:HD23	8:JG:230:LEU:HA	1.75	0.43
8:JK:119:LEU:HD23	8:JK:119:LEU:HA	1.81	0.43
9:JL:153:SER:HA	9:JL:195:ASN:HD21	1.83	0.43
8:JO:163:LYS:HA	8:JO:163:LYS:HD3	1.68	0.43
8:JO:183:GLU:CD	8:JO:184:PRO:HD3	2.44	0.43
8:KA:313:MET:N	8:KA:313:MET:HE2	2.34	0.43
9:KB:14:ASN:OD1	9:KB:73:MET:HE1	2.19	0.43
8:KC:311:LYS:HD3	8:KC:344:VAL:HG12	2.01	0.43
8:KG:203:MET:HE1	8:KG:267:PHE:HB3	2.01	0.43
9:KH:209:ASP:HA	9:KH:212:PHE:HB2	2.00	0.43
9:KH:300:MET:HE2	9:KH:300:MET:HB3	1.75	0.43
8:KI:139:HIS:NE2	8:KI:168:GLU:OE2	2.52	0.43
8:KI:213:CYS:HA	8:KI:217:LEU:HD12	2.01	0.43
8:KI:338:LYS:NZ	8:KI:340:THR:HB	2.34	0.43
9:KL:147:MET:HE3	9:KL:151:LEU:HD11	2.01	0.43
8:KM:171:ILE:HD13	8:KM:204:VAL:HG13	2.00	0.43
8:KM:211:ASP:N	8:KM:211:ASP:OD1	2.52	0.43
8:KM:288:VAL:HG13	8:KM:319:TYR:CE1	2.53	0.43
21:L1:157:HIS:NE2	9:VH:78:SER:HB2	2.33	0.43
8:LA:51:THR:HG21	8:LA:243:ARG:HG2	1.99	0.43
9:LH:23:VAL:HG21	9:LH:230:SER:HB3	2.01	0.43
8:LI:171:ILE:HD13	8:LI:204:VAL:HG23	2.01	0.43
8:LI:189:LEU:HD23	8:LI:189:LEU:HA	1.82	0.43
8:LM:434:GLU:O	8:LM:437:VAL:HG12	2.19	0.43
9:LP:152:ILE:O	9:LP:156:ARG:HG2	2.19	0.43
8:MA:153:LEU:O	8:MA:157:LEU:N	2.42	0.43
8:MA:326:LYS:HG3	9:MB:212:PHE:HZ	1.83	0.43
8:MC:434:GLU:OE1	45:l:55:ARG:NH2	2.51	0.43
9:MF:173:PRO:HG3	9:MF:380:ARG:HD3	2.00	0.43
8:MG:311:LYS:HB3	8:MG:311:LYS:HE2	1.83	0.43
9:MN:78:SER:O	9:MN:78:SER:OG	2.33	0.43
9:MN:172:SER:HB2	9:MN:203:ASP:OD1	2.18	0.43
9:MN:198:GLU:N	9:MN:198:GLU:OE1	2.51	0.43
9:MP:372:THR:HG21	9:MP:426:GLN:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N1:29:PHE:HA	6:N1:32:HIS:ND1	2.33	0.43
8:NA:3:GLU:HG3	8:NA:129:CYS:SG	2.58	0.43
8:NA:306:ASP:HB3	8:NA:309:HIS:ND1	2.34	0.43
9:NB:8:GLN:HE21	9:NB:14:ASN:HA	1.83	0.43
9:NB:31:ASP:OD2	9:NB:35:THR:OG1	2.36	0.43
8:NC:132:LEU:O	8:NC:164:LYS:NZ	2.47	0.43
8:NE:361:THR:OG1	8:NE:362:VAL:N	2.52	0.43
8:NG:188:ILE:HD11	8:NG:391:LEU:HG	2.01	0.43
8:NI:168:GLU:HB3	8:NI:201:ALA:HA	2.01	0.43
8:NI:368:LEU:HD23	8:NI:368:LEU:H	1.84	0.43
8:NK:324:VAL:O	8:NK:328:VAL:HG23	2.19	0.43
9:NN:170:VAL:HG11	9:NN:377:LEU:HD11	2.01	0.43
9:NP:372:THR:HA	9:NP:422:TYR:CE1	2.54	0.43
17:O8:54:SER:O	27:P3:158:CYS:N	2.51	0.43
9:OB:200:TYR:CE1	9:OB:266:PHE:HB2	2.54	0.43
8:OC:5:ILE:HD12	8:OC:135:PHE:HE1	1.83	0.43
9:OD:52:ASN:HB3	9:OD:60:VAL:HG13	2.01	0.43
8:OE:235:VAL:HA	8:OE:238:ILE:HG22	2.00	0.43
9:OJ:286:VAL:HG12	9:OJ:329:GLN:NE2	2.33	0.43
8:OK:1:MET:HE3	8:OK:50:ASN:HB3	2.01	0.43
23:P:82:LYS:HZ2	23:P:82:LYS:HB3	1.83	0.43
26:P2:112:SER:O	26:P2:116:ARG:HG3	2.18	0.43
27:P6:132:PHE:CB	27:P6:135:LEU:HD23	2.45	0.43
8:PI:316:CYS:HB3	8:PI:378:LEU:HB2	2.01	0.43
9:PJ:131:GLN:HE22	9:PJ:250:LEU:H	1.67	0.43
9:PN:188:SER:O	9:PN:192:LEU:HD22	2.19	0.43
8:PO:416:GLY:O	8:PO:420:GLU:HG2	2.18	0.43
9:QB:21:TRP:CE2	9:QB:61:PRO:HB3	2.54	0.43
9:QB:147:MET:HE3	9:QB:147:MET:HA	2.00	0.43
8:QC:11:GLN:HB3	50:QC:501:GTP:PA	2.58	0.43
8:QC:176:GLN:OE1	8:QC:177:VAL:N	2.51	0.43
8:QE:254:GLU:HG2	9:QF:98:GLY:HA2	2.00	0.43
8:QG:112:LYS:HA	8:QG:115:VAL:CG1	2.48	0.43
9:QL:54:ALA:HB3	9:QL:58:LYS:HB3	1.99	0.43
8:QM:208:ALA:HA	8:QM:211:ASP:OD2	2.18	0.43
9:QN:255:VAL:HG21	8:QO:100:ALA:O	2.18	0.43
8:QO:326:LYS:HE2	8:QO:326:LYS:HB2	1.83	0.43
11:R2:182:THR:O	11:R2:185:ILE:HG22	2.19	0.43
8:RC:79:ARG:HH21	8:RC:94:THR:HG23	1.83	0.43
8:RC:204:VAL:HG23	8:RC:302:MET:SD	2.59	0.43
8:RE:64:ARG:HH21	8:RE:128:LEU:HG	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RI:335:ILE:HD13	8:RI:335:ILE:HA	1.83	0.43
8:RK:352:LYS:HD2	9:RL:177:ASP:O	2.19	0.43
9:RL:184:ASN:OD1	9:RL:398:TYR:OH	2.35	0.43
12:S2:197:GLU:HG2	12:S2:476:MET:HE1	2.00	0.43
12:S3:206:MET:HB3	12:S3:206:MET:HE2	1.85	0.43
12:S4:347:PHE:CZ	12:S4:472:LYS:HE2	2.54	0.43
12:S4:446:GLN:NE2	12:S5:285:ARG:H	2.17	0.43
12:S8:222:GLU:HA	12:S8:339:GLN:HG2	2.00	0.43
8:SA:245:ASP:HA	8:SA:249:ASN:HD21	1.84	0.43
8:SA:313:MET:SD	8:SA:380:ASN:HB3	2.58	0.43
8:SC:125:LEU:HD23	8:SC:125:LEU:HA	1.76	0.43
9:SD:60:VAL:HG11	9:TD:281:TYR:HB3	2.01	0.43
8:SE:88:HIS:CE1	8:TE:283:HIS:CD2	3.06	0.43
9:SH:55:THR:HB	9:TH:283:ALA:HA	2.00	0.43
9:SJ:7:LEU:HD13	9:SJ:135:LEU:HB2	1.99	0.43
9:SL:312:THR:HA	9:SL:348:ASN:HB3	2.00	0.43
8:SM:11:GLN:HA	8:SM:74:VAL:HG11	2.01	0.43
25:T:301:LEU:C	25:T:321:LEU:HD22	2.43	0.43
14:T1:117:LEU:O	14:T1:121:ILE:HD12	2.18	0.43
14:T2:81:SER:HB2	14:T3:339:LEU:HD11	2.01	0.43
14:T2:183:ILE:O	14:T2:187:GLN:HG3	2.19	0.43
14:T4:243:HIS:HB2	14:T5:357:LEU:HD13	2.00	0.43
8:TA:19:ALA:O	8:TA:22:GLU:HG2	2.18	0.43
8:TA:191:THR:HG21	8:TA:425:LEU:HD22	2.01	0.43
9:TD:305:PRO:HA	9:TD:373:ALA:HB2	1.99	0.43
8:TI:33:ASP:OD2	8:TI:34:GLY:N	2.52	0.43
9:TL:261:PRO:HG3	8:TM:406:HIS:CD2	2.53	0.43
9:TL:343:GLU:N	9:TL:343:GLU:OE1	2.50	0.43
9:TN:117:LEU:O	9:TN:121:ARG:NE	2.51	0.43
9:TN:197:ASP:OD1	9:TN:197:ASP:N	2.52	0.43
25:U:260:ARG:HH22	25:U:285:ARG:HG3	1.84	0.43
30:U0:228:GLN:O	30:U0:231:LYS:HG3	2.18	0.43
30:U7:180:ALA:HA	30:U7:183:GLU:OE1	2.19	0.43
30:U9:436:GLU:O	30:U9:440:THR:HG23	2.19	0.43
8:UA:202:PHE:CE1	8:UA:268:PRO:HB2	2.54	0.43
9:UB:229:VAL:O	9:UB:232:THR:N	2.50	0.43
9:UD:358:PRO:HG2	9:UD:361:LEU:HB3	2.01	0.43
9:UF:193:VAL:HA	9:UF:264:HIS:NE2	2.34	0.43
8:UG:53:PHE:HB3	8:UG:61:HIS:HB3	2.00	0.43
9:UJ:113:VAL:HA	9:UJ:116:VAL:HG22	2.00	0.43
25:V:210:ASP:O	25:V:214:GLN:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V2:453:HIS:O	30:V2:457:ILE:HG13	2.18	0.43
30:V7:256:ASP:O	30:V7:260:ALA:HB2	2.18	0.43
30:V8:270:LEU:HD12	4:j1:197:PRO:HG3	2.00	0.43
9:VD:358:PRO:HG2	9:VD:361:LEU:HB3	2.00	0.43
8:VE:3:GLU:HA	8:VE:51:THR:HA	2.01	0.43
9:VF:290:THR:HA	9:VF:293:MET:HE1	2.00	0.43
8:VG:269:LEU:HD21	8:VG:384:ILE:HD12	2.00	0.43
8:VG:326:LYS:HB3	9:VH:212:PHE:HZ	1.83	0.43
8:VI:254:GLU:OE1	8:VI:254:GLU:N	2.51	0.43
9:VJ:271:ALA:HB1	9:VJ:289:LEU:HB3	1.99	0.43
8:VM:287:SER:OG	8:VM:290:GLU:OE2	2.27	0.43
8:VM:302:MET:HE3	8:VM:302:MET:HA	2.00	0.43
9:VN:167:PHE:CE1	9:VN:233:MET:HG2	2.54	0.43
8:VO:16:ILE:HG21	8:VO:138:PHE:CD2	2.54	0.43
8:VO:111:GLY:O	8:VO:115:VAL:HG13	2.19	0.43
31:W:549:ILE:HG23	31:W:742:VAL:HG22	2.01	0.43
30:W5:201:ARG:HG3	30:W5:464:ILE:HD12	2.01	0.43
9:WB:316:VAL:HG22	9:WB:352:ALA:HB3	2.01	0.43
9:WF:49:VAL:HG23	9:WF:50:TYR:CD1	2.54	0.43
8:WI:252:LEU:HA	8:WI:255:PHE:CE2	2.54	0.43
9:WL:52:ASN:HB3	9:WL:60:VAL:HG23	2.00	0.43
9:WP:314:ALA:HA	9:WP:350:LYS:O	2.18	0.43
35:XE:91:VAL:HG22	35:XE:154:VAL:HG22	2.00	0.43
35:XG:113:ARG:HD3	35:XG:115:LYS:NZ	2.34	0.43
37:YA:175:ARG:HD2	37:YA:231:MET:HE1	1.99	0.43
37:YC:89:TYR:CE1	37:YC:118:MET:HE3	2.54	0.43
37:YD:100:LEU:HD13	37:YD:152:THR:HG23	2.01	0.43
37:YE:146:ARG:HG3	37:YE:205:ILE:HD11	2.00	0.43
37:YF:57:ARG:NH2	37:YF:102:GLU:OE2	2.52	0.43
37:YG:195:ILE:HB	37:YG:197:TYR:CZ	2.54	0.43
31:Z:584:ASP:O	31:Z:588:SER:OG	2.28	0.43
31:Z:667:LEU:HD11	31:Z:674:LEU:HD21	2.01	0.43
40:a4:100:LEU:HB3	40:a4:101:GLN:OE1	2.19	0.43
41:b3:165:LEU:HD23	41:b3:169:ARG:HE	1.83	0.43
41:b4:116:ASP:O	41:b4:117:ALA:C	2.61	0.43
42:g:170:ARG:HE	42:g:172:GLU:HB2	1.84	0.43
44:h1:118:MET:SD	44:h1:124:LEU:HB3	2.59	0.43
43:k:234:MET:HE3	43:k:234:MET:HA	2.01	0.43
2:2:481:MET:CE	2:2:481:MET:H	2.32	0.43
4:5:163:PRO:HG3	30:V5:280:PHE:HE2	1.83	0.43
7:A1:80:LYS:HA	7:A1:80:LYS:HD2	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AA:317:MET:SD	8:AA:377:MET:HG2	2.59	0.43
9:AB:100:ASN:HB3	9:AB:103:LYS:HB2	2.01	0.43
8:AC:169:PHE:CE1	8:AC:235:VAL:HG12	2.54	0.43
8:AE:225:THR:HG21	33:X4:182:LYS:HD3	2.00	0.43
9:AH:172:SER:HB2	9:AH:203:ASP:OD1	2.19	0.43
8:AI:325:PRO:HA	8:AI:328:VAL:HG12	2.01	0.43
8:AI:423:GLU:OE1	35:XE:108:TYR:HE2	2.02	0.43
8:AK:335:ILE:HD13	8:AK:335:ILE:HA	1.93	0.43
9:AL:38:GLY:HA3	9:AL:43:GLN:OE1	2.19	0.43
9:AL:152:ILE:HD11	9:AL:164:MET:CG	2.48	0.43
9:AP:55:THR:HG22	9:BP:282:ARG:O	2.19	0.43
9:AP:58:LYS:HZ3	9:BP:281:TYR:HD1	1.66	0.43
9:AP:282:ARG:HD3	9:AP:283:ALA:H	1.84	0.43
11:B1:395:ARG:NH2	11:B1:405:VAL:O	2.49	0.43
11:B3:162:LEU:HD23	11:B3:162:LEU:HA	1.88	0.43
11:B3:328:GLU:C	11:B3:330:CYS:H	2.27	0.43
8:BC:244:PHE:HB3	31:W:209:PRO:HB3	2.00	0.43
8:BE:425:LEU:HD23	8:BE:425:LEU:HA	1.76	0.43
8:BG:91:GLN:CD	8:BG:121:ARG:HH12	2.27	0.43
9:BJ:285:THR:HA	9:BJ:363:MET:HE1	2.01	0.43
9:BL:311:LEU:HD12	9:BL:342:VAL:HG21	2.00	0.43
12:C4:399:ARG:O	12:C4:403:ARG:HG3	2.18	0.43
9:CB:100:ASN:HB3	9:CB:103:LYS:HD3	2.00	0.43
9:CD:5:VAL:HB	9:CD:133:PHE:HD1	1.83	0.43
9:CF:19:LYS:HD2	9:CF:19:LYS:HA	1.75	0.43
9:CN:249:ASP:OD1	9:CN:252:LYS:N	2.45	0.43
9:CN:289:LEU:O	9:CN:293:MET:HG2	2.18	0.43
8:CO:186:ASN:O	8:CO:190:THR:OG1	2.36	0.43
9:CP:309:ARG:HG3	9:CP:426:GLN:HG3	2.01	0.43
8:CQ:172:TYR:N	8:CQ:204:VAL:O	2.38	0.43
14:D1:29:VAL:HG23	12:S3:212:HIS:HE1	1.84	0.43
14:D3:378:LEU:O	14:D3:382:GLU:HG2	2.19	0.43
14:D4:24:ARG:HG2	14:D4:27:TYR:CD1	2.54	0.43
9:DB:225:LEU:HD12	9:DB:225:LEU:H	1.84	0.43
9:DB:258:VAL:HB	8:DC:407:TRP:HE1	1.84	0.43
8:DC:87:PHE:C	8:EA:283:HIS:HE1	2.27	0.43
9:DF:263:LEU:HD22	9:DF:422:TYR:CD2	2.54	0.43
9:DJ:87:PRO:HD3	9:EH:281:TYR:CE2	2.54	0.43
9:DL:372:THR:HG21	9:DL:426:GLN:CD	2.43	0.43
8:DM:14:VAL:HG22	8:DM:67:PHE:HD2	1.84	0.43
9:DP:233:MET:H	9:DP:233:MET:HG2	1.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DP:261:PRO:HG3	8:DQ:406:HIS:CD2	2.53	0.43
8:EA:2:ARG:NH2	9:EB:71:GLY:N	2.67	0.43
9:EB:199:THR:N	9:EB:264:HIS:O	2.51	0.43
8:EK:388:TRP:H	8:EK:388:TRP:CD1	2.37	0.43
8:EO:377:MET:HE2	8:EO:379:SER:HB3	2.00	0.43
8:FA:221:ARG:HA	8:FA:221:ARG:HD2	1.73	0.43
9:FB:152:ILE:O	9:FB:156:ARG:HG2	2.18	0.43
8:FC:53:PHE:HB3	8:FC:61:HIS:HB3	2.01	0.43
9:FD:72:THR:O	9:FD:75:SER:OG	2.29	0.43
9:FD:156:ARG:HD3	9:FD:164:MET:CE	2.48	0.43
8:FG:6:SER:HB3	8:FG:8:HIS:NE2	2.34	0.43
8:FI:246:GLY:HA2	8:FI:357:TYR:CD1	2.54	0.43
9:FJ:11:GLN:OE1	52:FJ:502:GDP:H8	2.01	0.43
9:FL:1:MET:HE3	9:FL:2:ARG:H	1.84	0.43
9:FL:58:LYS:HD3	9:FL:58:LYS:HA	1.76	0.43
8:GA:227:LEU:HD23	8:GA:227:LEU:H	1.84	0.43
8:GA:227:LEU:O	8:GA:231:ILE:HG12	2.19	0.43
9:GB:372:THR:HG21	9:GB:426:GLN:HB2	2.01	0.43
8:GG:324:VAL:O	8:GG:328:VAL:HG23	2.19	0.43
9:GJ:230:SER:HA	9:GJ:233:MET:SD	2.59	0.43
8:GO:223:THR:OG1	8:GO:224:TYR:N	2.52	0.43
8:HC:78:VAL:HG12	8:HC:92:LEU:HD21	2.00	0.43
8:HC:104:ALA:HB1	8:HC:411:GLU:CD	2.44	0.43
8:HC:329:ASN:O	8:HC:332:ILE:HG22	2.19	0.43
8:HE:6:SER:HA	8:HE:136:LEU:O	2.19	0.43
9:HF:167:PHE:CD1	9:HF:233:MET:HG2	2.54	0.43
9:HF:323:MET:HE1	8:HG:224:TYR:CG	2.54	0.43
9:HF:328:GLU:O	9:HF:332:ASN:HB2	2.19	0.43
8:HG:11:GLN:HG3	8:HG:74:VAL:HG21	2.01	0.43
8:HG:225:THR:O	8:HG:229:ARG:HG3	2.19	0.43
8:HG:239:THR:OG1	8:HG:243:ARG:NH1	2.41	0.43
8:HK:5:ILE:HD12	8:HK:135:PHE:HE1	1.84	0.43
9:HL:299:MET:HE3	9:HL:300:MET:H	1.82	0.43
8:HM:263:PRO:HG3	9:HN:396:HIS:CD2	2.54	0.43
8:HM:329:ASN:HB2	9:HN:175:VAL:HG21	2.00	0.43
8:HO:183:GLU:HA	8:HO:186:ASN:HD22	1.83	0.43
8:IA:33:ASP:OD1	8:IA:34:GLY:N	2.52	0.43
9:ID:251:ARG:HA	9:ID:254:ALA:HB3	2.01	0.43
9:ID:310:TYR:CD1	9:ID:371:SER:HB2	2.54	0.43
8:IE:331:ALA:O	8:IE:335:ILE:HG12	2.19	0.43
8:IE:372:GLN:HE21	8:IE:373:ARG:HH12	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IF:331:LEU:HD21	8:IG:176:GLN:HB3	2.00	0.43
9:IJ:310:TYR:CD1	9:IJ:371:SER:HB2	2.53	0.43
8:IK:152:LEU:HA	8:IK:155:GLU:HG3	2.01	0.43
8:IK:264:ARG:HH22	8:IK:427:ALA:HB3	1.83	0.43
9:IL:192:LEU:HD13	9:IL:196:THR:OG1	2.19	0.43
8:IM:425:LEU:HD12	8:IM:425:LEU:HA	1.77	0.43
9:IN:205:GLU:HA	9:IN:208:TYR:CD2	2.54	0.43
9:IN:267:MET:HE3	9:IN:267:MET:C	2.44	0.43
8:IO:9:VAL:HG11	8:IO:150:ALA:HB2	2.01	0.43
9:JB:18:ALA:O	9:JB:22:GLU:HG3	2.18	0.43
9:JB:318:ARG:N	9:JB:364:SER:O	2.40	0.43
9:JD:344:TRP:CD1	9:JD:345:ILE:HG13	2.54	0.43
8:JE:163:LYS:HE3	8:JE:163:LYS:HB3	1.71	0.43
8:JG:223:THR:OG1	8:JG:224:TYR:N	2.52	0.43
8:JK:326:LYS:HE2	8:JK:326:LYS:HB2	1.79	0.43
8:JK:388:TRP:HB3	8:JK:425:LEU:HD11	2.00	0.43
8:JM:6:SER:HB3	8:JM:8:HIS:NE2	2.33	0.43
8:JM:111:GLY:O	8:JM:115:VAL:HG13	2.19	0.43
8:JO:108:TYR:HE2	8:JO:413:MET:SD	2.42	0.43
8:JO:119:LEU:HD23	8:JO:119:LEU:HA	1.88	0.43
20:K2:19:ASN:O	20:K2:23:ARG:HG3	2.18	0.43
13:K3:401:ARG:HB2	13:K3:404:ARG:HB2	1.99	0.43
8:KC:295:CYS:HB3	8:KC:377:MET:HE2	2.01	0.43
9:KD:267:MET:HE1	9:KD:305:PRO:HD3	2.00	0.43
9:KD:418:LEU:HD12	9:KD:418:LEU:HA	1.74	0.43
9:KF:70:PRO:HB3	9:KF:92:PHE:HE2	1.80	0.43
8:KG:6:SER:C	8:KG:7:ILE:HD12	2.44	0.43
9:KH:47:ILE:HG23	9:KH:51:TYR:CD1	2.53	0.43
8:KI:167:LEU:HD23	8:KI:202:PHE:HE2	1.83	0.43
8:KI:430:LYS:HB2	8:KI:430:LYS:HE3	1.84	0.43
8:KK:319:TYR:CD1	8:KK:375:VAL:HG12	2.54	0.43
9:KL:324:LYS:HB2	8:KM:222:PRO:HD2	2.01	0.43
9:KP:252:LYS:HA	9:KP:252:LYS:HD2	1.76	0.43
8:LA:311:LYS:HD3	8:LA:344:VAL:HG12	2.01	0.43
8:LA:326:LYS:HG3	9:LB:212:PHE:HZ	1.83	0.43
9:LB:310:TYR:CD1	9:LB:371:SER:HB3	2.54	0.43
8:LC:365:GLY:HA3	29:R:108:ARG:HG3	2.00	0.43
9:LD:279:GLN:CD	29:R:69:MET:HE3	2.44	0.43
8:LE:153:LEU:O	8:LE:157:LEU:HB2	2.18	0.43
8:LE:194:THR:O	8:LE:266:HIS:NE2	2.49	0.43
8:LK:196:GLU:HB3	45:n:76:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LN:21:TRP:CE3	9:LN:24:ILE:HD11	2.54	0.43
9:LN:299:MET:HE3	9:LN:299:MET:HA	2.01	0.43
8:LO:10:GLY:O	8:LO:14:VAL:HG23	2.19	0.43
9:LP:8:GLN:NE2	9:LP:13:GLY:O	2.49	0.43
22:M4:126:ASP:OD1	22:M4:127:LYS:N	2.51	0.43
9:MD:154:LYS:O	9:MD:158:GLU:HG3	2.19	0.43
8:MI:75:VAL:O	8:MI:79:ARG:HG3	2.19	0.43
8:MK:440:VAL:HB	45:n:56:SER:HB2	2.00	0.43
9:ML:165:ASN:HD21	9:ML:250:LEU:HD13	1.83	0.43
9:ML:320:ARG:HH22	23:P:62:LYS:NZ	2.16	0.43
8:MO:337:THR:HA	45:i1:26:ARG:HG3	2.01	0.43
8:MO:385:ALA:HA	8:MO:388:TRP:CZ3	2.53	0.43
9:NB:68:LEU:HD23	9:NB:68:LEU:HA	1.86	0.43
9:NB:334:GLN:OE1	9:NB:348:ASN:N	2.52	0.43
9:NF:263:LEU:HD23	9:NF:422:TYR:CE2	2.54	0.43
9:NH:287:PRO:O	9:NH:291:GLN:HG2	2.18	0.43
9:NJ:201:CYS:SG	9:NJ:265:PHE:HB3	2.58	0.43
8:NM:202:PHE:HE1	8:NM:378:LEU:HD22	1.83	0.43
8:NM:239:THR:OG1	8:NM:243:ARG:NH1	2.51	0.43
9:NN:252:LYS:NZ	50:NO:501:GTP:O3G	2.48	0.43
8:NO:319:TYR:CE2	8:NO:328:VAL:HG22	2.53	0.43
8:NO:338:LYS:HD2	8:NO:338:LYS:HA	1.94	0.43
25:O5:302:VAL:HG12	25:O5:304:ASN:H	1.83	0.43
25:O5:429:PRO:HG3	31:Z:644:TYR:CG	2.54	0.43
17:O7:7:HIS:HB3	17:O7:10:PHE:HE1	1.84	0.43
8:OA:255:PHE:O	8:OA:259:LEU:HG	2.19	0.43
8:OA:259:LEU:HD22	8:OA:268:PRO:HG2	2.01	0.43
9:OB:2:ARG:HD3	9:OB:131:GLN:HE21	1.84	0.43
8:OC:327:ASP:HA	8:OC:330:ALA:HB3	2.00	0.43
9:OD:299:MET:N	9:OD:299:MET:SD	2.92	0.43
8:OE:7:ILE:HG12	8:OE:122:ILE:HD11	2.00	0.43
9:OF:306:ARG:HH21	36:Y4:124:ILE:HG22	1.84	0.43
8:OG:313:MET:HE1	8:OG:344:VAL:HG11	2.01	0.43
9:OJ:291:GLN:OE1	36:Y4:54:ARG:NH2	2.49	0.43
9:OL:65:LEU:HD11	9:OL:85:PHE:HD2	1.84	0.43
9:OL:132:GLY:HA3	9:OL:163:ILE:O	2.18	0.43
8:OM:346:TRP:O	9:ON:388:MET:HG3	2.19	0.43
9:ON:72:THR:O	9:ON:75:SER:OG	2.36	0.43
9:OP:198:GLU:HA	9:OP:264:HIS:HB2	2.01	0.43
26:P2:96:GLU:OE1	26:P2:103:LYS:HA	2.18	0.43
26:P2:99:ILE:HA	26:P2:100:PRO:HD3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:P3:132:PHE:HB2	27:P3:135:LEU:HB2	1.99	0.43
27:P3:137:GLU:HA	27:P3:148:LYS:NZ	2.34	0.43
27:P3:172:TRP:NE1	11:R1:16:ASP:HB3	2.32	0.43
8:PC:70:LEU:HD12	8:PC:70:LEU:O	2.19	0.43
9:PJ:8:GLN:HB3	9:PJ:65:LEU:HA	2.01	0.43
9:PJ:421:GLU:HA	9:PJ:424:GLN:HB3	2.00	0.43
8:PK:172:TYR:HE2	8:PK:390:ARG:HH12	1.67	0.43
9:PL:261:PRO:HG3	8:PM:406:HIS:CD2	2.54	0.43
8:PO:56:THR:HA	8:QO:285:GLN:HB2	2.01	0.43
28:Q2:105:LEU:HD12	28:Q2:105:LEU:HA	1.83	0.43
8:QC:316:CYS:C	8:QC:317:MET:HE2	2.44	0.43
8:QG:344:VAL:HG12	8:QG:347:CYS:SG	2.59	0.43
9:QH:5:VAL:HG13	9:QH:130:LEU:HD11	2.01	0.43
9:QH:142:GLY:H	52:QH:502:GDP:PB	2.41	0.43
9:QH:361:LEU:HD12	9:QH:361:LEU:HA	1.82	0.43
8:QI:326:LYS:HD3	9:QJ:212:PHE:CE1	2.54	0.43
9:QN:378:PHE:HB3	9:QN:415:MET:HE2	2.01	0.43
8:QO:3:GLU:H	8:QO:133:GLN:HG2	1.84	0.43
8:QO:141:PHE:CD2	8:QO:172:TYR:HA	2.54	0.43
9:QP:68:LEU:HD23	9:QP:68:LEU:HA	1.92	0.43
11:R1:202:LYS:HB2	11:R1:205:PRO:HB3	2.01	0.43
11:R3:368:LYS:O	11:R3:372:ARG:HD2	2.19	0.43
11:R4:11:ARG:HE	11:R4:11:ARG:HB3	1.73	0.43
11:R4:123:ARG:NH2	11:R4:129:VAL:O	2.38	0.43
11:R4:380:LYS:HD3	11:R4:380:LYS:HA	1.84	0.43
8:RC:125:LEU:HD23	8:RC:125:LEU:HA	1.83	0.43
8:RC:154:MET:HE2	8:RC:197:HIS:O	2.19	0.43
8:RC:210:TYR:O	8:RC:214:ARG:HG3	2.18	0.43
8:RE:161:TYR:HD2	8:RE:164:LYS:HG3	1.83	0.43
8:RG:201:ALA:HB1	8:RG:203:MET:HE2	2.01	0.43
9:RJ:135:LEU:HG	9:RJ:164:MET:HE2	2.00	0.43
9:RL:198:GLU:HG3	9:RL:266:PHE:CE2	2.54	0.43
9:RL:337:ASN:N	9:RL:337:ASN:OD1	2.52	0.43
8:RM:271:THR:HB	8:RM:377:MET:CE	2.48	0.43
9:RN:73:MET:HE3	9:RN:92:PHE:HB3	2.00	0.43
9:RN:125:GLU:OE1	9:SL:336:LYS:NZ	2.44	0.43
8:RO:234:ILE:HD11	8:RO:272:TYR:HB2	2.00	0.43
29:S:365:THR:OG1	29:S:366:GLU:N	2.52	0.43
12:S2:71:ARG:HD3	12:S3:234:ARG:NH1	2.34	0.43
12:S5:183:ARG:HH12	14:T5:396:GLN:HE21	1.66	0.43
12:S9:202:ARG:NH1	12:S9:213:ASP:OD2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SA:313:MET:HE3	8:SA:313:MET:N	2.34	0.43
8:SA:350:GLY:HA2	9:SB:179:VAL:HG22	2.01	0.43
8:SC:167:LEU:HD11	8:SC:252:LEU:HD11	2.00	0.43
8:SE:319:TYR:CE2	8:SE:353:VAL:HG13	2.45	0.43
8:SI:151:SER:HA	8:SI:193:THR:HG21	2.00	0.43
8:SI:214:ARG:NE	8:SI:214:ARG:O	2.51	0.43
8:SI:287:SER:O	8:SI:291:ILE:HG12	2.18	0.43
8:SK:3:GLU:OE2	8:SK:64:ARG:NH2	2.52	0.43
8:SK:413:MET:HE2	8:SK:417:GLU:CG	2.49	0.43
25:T:301:LEU:H	25:T:301:LEU:HD23	1.84	0.43
14:T1:360:ARG:HG3	14:T1:374:GLN:HE22	1.84	0.43
14:T3:84:LEU:HD13	14:T4:394:LYS:HG3	2.00	0.43
8:TA:75:VAL:O	8:TA:79:ARG:HG3	2.19	0.43
8:TC:229:ARG:NE	8:TC:367:ASP:H	2.14	0.43
9:TD:221:THR:N	9:TD:224:ASP:OD2	2.49	0.43
8:TE:317:MET:SD	8:TE:319:TYR:CE1	3.12	0.43
9:TJ:296:ALA:O	9:TJ:297:LYS:HD3	2.19	0.43
8:TK:326:LYS:HG3	9:TL:212:PHE:CZ	2.54	0.43
8:TK:345:ASP:OD1	8:TK:345:ASP:N	2.51	0.43
9:TL:32:PRO:O	9:TL:83:GLN:NE2	2.51	0.43
8:TM:7:ILE:HD12	8:TM:137:ILE:HG12	2.01	0.43
9:TN:276:ARG:NE	9:TN:276:ARG:O	2.51	0.43
30:U1:199:GLU:HB3	30:U6:248:HIS:HE1	1.83	0.43
30:U3:402:ARG:NH2	30:U3:408:CYS:O	2.40	0.43
30:U5:211:VAL:HG13	30:U5:343:PHE:HE1	1.83	0.43
30:U5:354:LYS:HD3	30:U5:462:LEU:HD12	2.01	0.43
9:UB:135:LEU:HD22	9:UB:137:HIS:CD2	2.54	0.43
9:UB:309:ARG:HG3	9:UB:426:GLN:HG3	2.00	0.43
8:UE:332:ILE:HD11	8:UE:353:VAL:HG21	2.01	0.43
9:UF:261:PRO:HG3	8:UG:406:HIS:CD2	2.54	0.43
9:UL:142:GLY:N	52:UL:502:GDP:O3B	2.43	0.43
9:UL:330:MET:SD	9:UL:349:VAL:HB	2.58	0.43
9:UL:361:LEU:HD12	9:UL:361:LEU:HA	1.87	0.43
8:UM:263:PRO:HG3	9:UN:396:HIS:CD2	2.53	0.43
8:UM:422:ARG:NH1	8:UM:426:ALA:HB2	2.34	0.43
8:UO:352:LYS:HE3	8:UO:352:LYS:HB3	1.81	0.43
30:V3:200:LYS:HA	30:V3:200:LYS:HD2	1.64	0.43
30:V4:330:ASP:HB3	30:V4:334:LYS:HE3	2.00	0.43
30:V5:242:ASP:O	30:V5:310:MET:HE3	2.18	0.43
9:VB:67:ASP:HA	9:VB:143:THR:HG21	2.00	0.43
9:VB:269:GLY:N	9:VB:367:PHE:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VG:33:ASP:OD1	8:VG:34:GLY:N	2.52	0.43
8:VG:286:LEU:HA	8:VG:290:GLU:OE2	2.18	0.43
8:VI:150:ALA:O	8:VI:154:MET:HG2	2.19	0.43
9:VL:87:PRO:HA	9:VL:90:PHE:HD1	1.84	0.43
9:VL:318:ARG:HH21	9:VL:358:PRO:HB3	1.84	0.43
30:W4:363:LYS:O	30:W4:367:GLU:HG2	2.19	0.43
30:W7:178:GLU:O	30:W7:182:GLU:HG2	2.18	0.43
8:WA:192:HIS:CE1	8:WA:421:ALA:HA	2.53	0.43
9:WB:109:GLY:HA2	9:WB:147:MET:SD	2.59	0.43
8:WC:186:ASN:O	8:WC:190:THR:OG1	2.25	0.43
9:WF:329:GLN:HB3	9:WF:330:MET:HE2	2.01	0.43
9:WH:328:GLU:OE2	9:WH:329:GLN:HG3	2.19	0.43
8:WI:248:LEU:HD12	8:WI:248:LEU:HA	1.82	0.43
9:WN:167:PHE:CD1	9:WN:233:MET:HE3	2.54	0.43
33:X5:11:SER:HB3	33:X5:14:VAL:HG22	2.00	0.43
33:X5:124:HIS:HB3	33:X5:127:GLU:OE1	2.18	0.43
34:X6:97:LEU:N	34:X6:141:VAL:O	2.50	0.43
34:X6:192:LYS:HD3	34:X6:192:LYS:HA	1.88	0.43
34:X8:13:LYS:HB2	34:X8:13:LYS:HE2	1.85	0.43
34:X8:97:LEU:HG	34:X8:205:MET:HE1	2.01	0.43
35:XF:59:ILE:HD12	35:XF:59:ILE:O	2.18	0.43
35:XH:107:ASN:HA	35:XH:123:MET:O	2.19	0.43
31:Y:720:VAL:HA	31:Y:724:MET:HE1	2.01	0.43
36:Y4:41:HIS:NE2	36:Y4:47:ARG:HA	2.33	0.43
37:YE:113:ARG:NH1	37:YE:117:ASP:OD1	2.52	0.43
37:YG:89:TYR:HD2	37:YG:93:LEU:HD22	1.84	0.43
37:YH:71:HIS:ND1	37:YH:71:HIS:O	2.52	0.43
37:YH:165:MET:HA	37:YH:165:MET:HE3	2.00	0.43
31:Z:71:TRP:H	31:Z:71:TRP:CD1	2.36	0.43
39:a:195:SER:O	39:a:197:ILE:N	2.52	0.43
39:a:226:ARG:NH2	39:a:227:ARG:HB2	2.32	0.43
39:b:371:ARG:NH1	39:b:374:ALA:HB3	2.33	0.43
41:b1:416:ALA:HB2	44:h1:49:GLN:HE21	1.84	0.43
41:b2:185:ARG:HE	41:b2:189:GLU:HB3	1.82	0.43
41:b3:401:TYR:CZ	41:b3:407:THR:HB	2.54	0.43
41:b3:408:GLN:HG2	44:h3:108:LYS:HZ1	1.83	0.43
41:b4:382:LEU:HG	41:b4:383:LEU:HD22	2.01	0.43
41:b4:476:GLN:HE21	41:b4:476:GLN:HB2	1.66	0.43
41:b5:213:MET:HG2	41:b5:321:ILE:HD12	2.00	0.43
41:b5:266:ASP:OD1	41:b5:268:THR:OG1	2.28	0.43
42:e:220:PHE:CZ	42:e:232:MET:HG3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:h:222:PRO:HA	43:h:225:ILE:HG12	2.01	0.43
43:i:229:LYS:O	43:i:233:GLU:HG2	2.19	0.43
46:i4:1422:ASN:HD22	46:i4:1512:ARG:HA	1.84	0.43
43:k:129:ARG:HE	43:k:129:ARG:HB2	1.25	0.43
48:q:137:SER:OG	48:q:138:ILE:N	2.52	0.43
1:0:82:GLY:HA3	9:JP:361:LEU:HD12	2.01	0.43
2:2:277:ARG:HH12	8:II:359:PRO:HG2	1.84	0.43
3:3:268:ARG:HD3	30:W2:158:TYR:HB2	2.00	0.43
3:3:327:LYS:O	3:3:331:LYS:HG2	2.19	0.43
3:3:446:GLU:HA	3:3:449:ASN:ND2	2.34	0.43
1:7:78:TYR:O	9:JD:276:ARG:NH2	2.52	0.43
7:A0:330:ARG:HG2	7:A1:208:GLU:OE2	2.19	0.43
8:AA:1:MET:HE1	8:AA:50:ASN:ND2	2.33	0.43
8:AC:22:GLU:O	8:AC:26:LEU:HG	2.18	0.43
8:AE:322:ASP:OD2	8:AE:373:ARG:NH2	2.47	0.43
8:AG:387:ALA:HA	8:AG:390:ARG:HG3	2.00	0.43
8:AK:46:ASP:OD1	8:AK:46:ASP:N	2.52	0.43
8:AK:88:HIS:CE1	8:BK:284:GLU:OE2	2.72	0.43
8:AM:326:LYS:HD2	9:AN:220:PRO:HG2	1.99	0.43
9:AP:40:SER:HB3	9:AP:43:GLN:HG3	1.99	0.43
9:AP:281:TYR:OH	9:MP:33:THR:O	2.17	0.43
11:B1:185:ILE:HD13	28:Q1:137:MET:SD	2.59	0.43
11:B2:82:LEU:HD23	11:B2:82:LEU:HA	1.87	0.43
11:B2:202:LYS:HD2	14:D2:212:GLU:OE2	2.18	0.43
9:BB:189:VAL:HA	9:BB:192:LEU:HB2	2.01	0.43
9:BL:158:GLU:O	9:BL:160:PRO:HD3	2.19	0.43
9:BL:375:GLN:O	9:BL:379:LYS:HG3	2.19	0.43
9:BN:324:LYS:O	9:BN:328:GLU:HG2	2.18	0.43
9:BP:8:GLN:HB3	9:BP:65:LEU:HA	2.01	0.43
10:C:354:PHE:CE1	8:HK:282:TYR:CD1	3.07	0.43
12:C1:132:TYR:O	12:C1:136:ARG:HG2	2.19	0.43
12:C4:202:ARG:HD2	12:C4:347:PHE:CE1	2.54	0.43
9:CB:380:ARG:HA	9:CB:383:GLU:CD	2.44	0.43
8:CC:142:GLY:HA2	8:CC:183:GLU:HG2	2.01	0.43
8:CG:180:ALA:HB3	8:CG:183:GLU:HB2	2.01	0.43
9:CJ:203:ASP:OD1	9:CJ:204:ASN:N	2.52	0.43
8:CK:7:ILE:O	8:CK:9:VAL:HG23	2.19	0.43
9:CL:5:VAL:HG22	9:CL:62:ARG:HD2	2.00	0.43
9:CL:38:GLY:O	40:a3:50:LYS:NZ	2.44	0.43
9:CL:357:PRO:HG2	27:P6:16:ILE:HG13	2.01	0.43
8:CM:386:GLU:O	8:CM:390:ARG:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CQ:70:LEU:HD23	8:CQ:70:LEU:HA	1.91	0.43
8:CQ:378:LEU:HA	8:CQ:378:LEU:HD13	1.81	0.43
14:D0:75:GLU:HA	14:D0:78:ARG:HD3	2.01	0.43
14:D2:47:ARG:NH1	14:D2:47:ARG:O	2.37	0.43
14:D5:400:GLN:NE2	14:D5:404:ASN:OD1	2.52	0.43
8:DC:183:GLU:H	8:DC:183:GLU:HG3	1.58	0.43
9:DD:103:LYS:HE2	9:DD:103:LYS:HB3	1.87	0.43
9:DD:150:LEU:HG	9:DD:154:LYS:HE2	2.00	0.43
8:DE:70:LEU:HB3	8:DE:98:ASP:HA	2.01	0.43
8:DG:269:LEU:HD22	8:DG:303:VAL:HG21	2.01	0.43
9:DH:28:HIS:HA	9:DH:43:GLN:HG3	2.01	0.43
9:DJ:69:GLU:HG2	9:DJ:71:GLY:H	1.84	0.43
8:DM:18:ASN:HD22	8:DM:18:ASN:HA	1.62	0.43
9:DP:324:LYS:NZ	8:DQ:210:TYR:O	2.45	0.43
15:E:94:CYS:SG	15:E:125:ARG:NH1	2.92	0.43
8:EC:60:LYS:HE2	8:FC:283:HIS:HB3	2.00	0.43
8:EE:201:ALA:HB1	8:EE:203:MET:SD	2.59	0.43
9:EN:46:ARG:NH2	17:Z5:223:GLY:HA2	2.34	0.43
8:EO:138:PHE:HD2	8:EO:169:PHE:HB2	1.84	0.43
8:FA:290:GLU:HA	8:FA:293:ASN:ND2	2.34	0.43
8:FA:346:TRP:HB3	9:FB:390:ARG:HH12	1.84	0.43
9:FB:28:HIS:CE1	9:FB:47:ILE:HG22	2.54	0.43
8:FC:259:LEU:HA	8:FC:259:LEU:HD12	1.88	0.43
8:FC:270:ALA:HB3	8:FC:302:MET:HE1	2.01	0.43
9:FH:344:TRP:HZ3	8:FI:403:ALA:HB2	1.84	0.43
8:FI:332:ILE:HD13	8:FI:332:ILE:HA	1.87	0.43
8:FK:52:PHE:CZ	8:FK:239:THR:HG21	2.54	0.43
8:FK:203:MET:HE3	8:FK:203:MET:H	1.84	0.43
8:FM:111:GLY:O	8:FM:115:VAL:HG23	2.18	0.43
9:FN:122:LYS:HG3	9:GN:291:GLN:NE2	2.34	0.43
9:FN:247:ASN:HD22	8:FO:71:GLU:HG2	1.84	0.43
8:GA:96:LYS:HD2	8:GA:96:LYS:HA	1.70	0.43
8:GA:250:VAL:HG23	8:GA:254:GLU:HB2	2.01	0.43
9:GD:143:THR:HB	9:GD:147:MET:HE1	2.00	0.43
9:GD:156:ARG:HG3	9:GD:195:ASN:HB3	2.01	0.43
9:GD:418:LEU:O	9:GD:422:TYR:HB3	2.19	0.43
8:GI:206:ASN:OD1	8:GI:206:ASN:N	2.52	0.43
9:GJ:273:LEU:O	9:GJ:292:GLN:NE2	2.40	0.43
9:GL:282:ARG:NE	9:GL:282:ARG:HA	2.33	0.43
8:GM:82:THR:HG21	26:P2:87:ARG:HG3	2.01	0.43
8:GO:33:ASP:O	8:GO:60:LYS:HE3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HB:6:HIS:CG	9:HB:21:TRP:HE1	2.37	0.43
9:HB:74:ASP:OD1	9:HB:75:SER:N	2.52	0.43
9:HD:232:THR:CG2	9:HD:300:MET:HE1	2.49	0.43
8:HE:164:LYS:HA	8:HE:164:LYS:HD3	1.74	0.43
8:HE:286:LEU:HD12	8:HE:291:ILE:HG22	2.00	0.43
9:HF:5:VAL:HB	9:HF:133:PHE:CD1	2.54	0.43
9:HF:252:LYS:NZ	50:HG:501:GTP:O3G	2.51	0.43
8:HG:118:VAL:O	8:HG:122:ILE:HG22	2.19	0.43
8:HG:298:PRO:HG3	8:HG:308:ARG:HH11	1.84	0.43
8:HG:394:LYS:O	8:HG:398:MET:HG2	2.19	0.43
9:HH:330:MET:HG3	9:HH:351:THR:HG21	2.00	0.43
8:HI:385:ALA:HB2	8:HI:432:TYR:HD2	1.84	0.43
8:HM:132:LEU:HD13	8:HM:132:LEU:HA	1.86	0.43
8:HO:172:TYR:OH	8:HO:387:ALA:HB1	2.19	0.43
9:HP:226:ASN:OD1	52:HP:502:GDP:N1	2.43	0.43
9:HP:300:MET:HE2	9:HP:300:MET:HA	2.01	0.43
17:I:249:LYS:HE3	30:W4:139:SER:HB3	2.01	0.43
9:IF:372:THR:HG21	9:IF:426:GLN:CD	2.43	0.43
8:IG:128:LEU:HD23	8:IG:128:LEU:HA	1.82	0.43
9:IH:65:LEU:HD13	9:IH:90:PHE:CD2	2.53	0.43
9:IH:325:GLU:O	9:IH:329:GLN:HG2	2.18	0.43
8:IO:311:LYS:H	8:IO:382:THR:HG22	1.84	0.43
19:J1:227:LYS:HD2	19:J1:227:LYS:HA	1.86	0.43
19:J3:190:LEU:O	19:J3:194:GLU:HG2	2.18	0.43
19:J3:216:TYR:CE2	9:KJ:262:ARG:HD3	2.53	0.43
19:J4:214:LYS:HB3	19:J4:215:LEU:HD12	2.01	0.43
19:J5:57:MET:HG3	19:J5:57:MET:H	1.67	0.43
9:JB:32:PRO:HD3	9:JB:81:PHE:CZ	2.54	0.43
8:JC:345:ASP:N	8:JC:345:ASP:OD1	2.50	0.43
9:JF:143:THR:OG1	9:JF:144:GLY:N	2.52	0.43
9:JF:155:ILE:HA	9:JF:158:GLU:HB3	2.01	0.43
9:JL:267:MET:HE2	9:JL:267:MET:HB3	1.94	0.43
9:JP:120:VAL:O	9:JP:124:ALA:N	2.46	0.43
20:K1:15:GLU:HA	20:K1:18:GLN:HB2	2.01	0.43
20:K1:29:GLU:OE1	20:K1:29:GLU:N	2.52	0.43
20:K1:55:MET:HE1	8:UC:19:ALA:CA	2.48	0.43
8:KA:186:ASN:O	8:KA:190:THR:OG1	2.19	0.43
9:KB:215:LEU:HD21	9:KB:273:LEU:HB3	2.01	0.43
9:KD:6:HIS:CD2	9:KD:8:GLN:HE21	2.37	0.43
9:KD:11:GLN:O	9:KD:15:GLN:HG2	2.18	0.43
8:KE:1:MET:HE3	8:KE:2:ARG:HH11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KF:11:GLN:O	9:KF:15:GLN:HG2	2.19	0.43
9:KH:7:LEU:HD23	9:KH:133:PHE:HB3	2.00	0.43
9:KH:118:ASP:O	9:KH:122:LYS:HG3	2.18	0.43
9:KJ:294:PHE:CD2	9:KJ:333:VAL:HG21	2.53	0.43
9:KJ:325:GLU:HA	9:KJ:328:GLU:HG3	2.00	0.43
9:KJ:330:MET:HA	9:KJ:333:VAL:HG12	2.01	0.43
8:KK:2:ARG:HB2	8:KK:242:LEU:HD23	2.01	0.43
8:KK:6:SER:HB3	8:KK:8:HIS:CD2	2.54	0.43
8:KM:412:GLY:HA2	41:b4:362:HIS:CE1	2.54	0.43
9:KN:113:VAL:O	9:KN:117:LEU:HG	2.19	0.43
9:KN:255:VAL:HA	8:KO:407:TRP:CE2	2.54	0.43
8:KO:98:ASP:OD1	8:KO:98:ASP:N	2.40	0.43
9:KP:165:ASN:HB3	9:KP:200:TYR:HE2	1.83	0.43
9:KP:409:THR:OG1	9:KP:410:GLU:OE2	2.37	0.43
8:LA:210:TYR:O	8:LA:214:ARG:HG3	2.19	0.43
9:LB:7:LEU:O	9:LB:135:LEU:HA	2.18	0.43
9:LB:125:GLU:OE1	9:LB:159:TYR:OH	2.33	0.43
9:LD:249:ASP:OD1	9:LD:252:LYS:HB2	2.19	0.43
9:LF:69:GLU:CD	9:LF:71:GLY:H	2.27	0.43
9:LJ:426:GLN:NE2	44:h3:64:MET:HE1	2.34	0.43
8:LK:136:LEU:HD12	8:LK:138:PHE:HE2	1.84	0.43
9:LL:68:LEU:HG	9:LL:143:THR:HG23	2.01	0.43
8:LM:28:HIS:CE1	8:LM:243:ARG:HD2	2.54	0.43
8:LO:405:VAL:HG12	8:LO:409:VAL:HG23	2.01	0.43
22:M3:3:PHE:O	8:MK:84:ARG:NH1	2.52	0.43
8:MA:289:ALA:O	8:MA:293:ASN:ND2	2.52	0.43
9:MD:139:LEU:HA	9:MD:145:SER:HB2	2.01	0.43
9:MJ:3:GLU:H	9:MJ:131:GLN:HE22	1.67	0.43
8:MK:205:ASP:O	8:MK:209:ILE:HG13	2.18	0.43
8:MM:117:LEU:HB2	48:s:90:THR:HG22	2.01	0.43
9:MP:116:VAL:HG11	9:MP:151:LEU:HD12	1.99	0.43
9:MP:279:GLN:OE1	9:MP:282:ARG:NH2	2.52	0.43
6:N1:75:HIS:CD2	4:j1:310:VAL:HG22	2.54	0.43
8:NA:56:THR:OG1	8:NA:60:LYS:O	2.26	0.43
8:NA:265:ILE:HG13	8:NA:432:TYR:CE1	2.53	0.43
9:ND:276:ARG:HA	9:ND:279:GLN:HG2	2.01	0.43
9:NF:11:GLN:HG2	9:NF:15:GLN:HE22	1.84	0.43
8:NG:231:ILE:H	8:NG:231:ILE:HG13	1.67	0.43
9:NH:143:THR:HB	9:NH:147:MET:HE1	2.01	0.43
8:NI:121:ARG:HA	8:NI:121:ARG:HD2	1.84	0.43
9:NN:19:LYS:O	9:NN:23:VAL:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NO:401:LYS:HA	8:NO:401:LYS:HD3	1.84	0.43
9:OB:200:TYR:CD1	9:OB:266:PHE:HB2	2.54	0.43
9:OB:247:ASN:HD22	8:OC:74:VAL:HG22	1.84	0.43
8:OE:223:THR:OG1	8:OE:224:TYR:N	2.52	0.43
9:OF:262:ARG:HH21	9:OF:418:LEU:HB2	1.84	0.43
9:OF:381:ILE:HD13	9:OF:381:ILE:HA	1.92	0.43
8:OI:14:VAL:HG22	8:OI:67:PHE:HD2	1.83	0.43
9:OJ:310:TYR:CD1	9:OJ:371:SER:HB2	2.53	0.43
9:OJ:334:GLN:HE21	9:OJ:349:VAL:HG23	1.83	0.43
8:OK:32:PRO:O	8:OK:86:LEU:HB2	2.18	0.43
9:OL:375:GLN:O	9:OL:379:LYS:HG2	2.19	0.43
8:OM:331:ALA:O	8:OM:335:ILE:HG12	2.19	0.43
8:PC:111:GLY:O	8:PC:115:VAL:HG23	2.19	0.43
8:PI:139:HIS:CE1	8:PI:170:ALA:HB2	2.54	0.43
9:PJ:139:LEU:HD12	9:PJ:171:PRO:HD2	2.00	0.43
9:PL:25:SER:HB2	9:PL:30:ILE:HG22	2.01	0.43
9:PL:309:ARG:NH1	9:PL:426:GLN:HG3	2.33	0.43
9:QB:69:GLU:HG2	9:QB:71:GLY:H	1.83	0.43
9:QB:293:MET:N	9:QB:293:MET:HE2	2.34	0.43
8:QE:141:PHE:HE2	8:QE:203:MET:HG3	1.84	0.43
8:QE:152:LEU:HD12	8:QE:153:LEU:N	2.33	0.43
9:QF:184:ASN:OD1	9:QF:398:TYR:OH	2.34	0.43
8:QK:185:TYR:O	8:QK:189:LEU:HD12	2.19	0.43
8:QM:231:ILE:O	8:QM:235:VAL:HG23	2.19	0.43
8:QM:344:VAL:HG12	8:QM:347:CYS:SG	2.59	0.43
11:R1:110:LEU:HA	11:R1:144:ILE:HD13	2.00	0.43
11:R3:179:LYS:O	11:R3:182:THR:HB	2.19	0.43
11:R4:403:LYS:HZ2	11:R4:403:LYS:HG3	1.54	0.43
8:RC:60:LYS:HE3	8:RC:60:LYS:HB3	1.72	0.43
8:RE:102:ASN:ND2	8:RE:105:ARG:HG3	2.34	0.43
8:RE:313:MET:HB2	8:RE:346:TRP:CH2	2.54	0.43
8:RG:263:PRO:HG3	9:RH:396:HIS:CG	2.54	0.43
9:RH:15:GLN:NE2	52:RH:502:GDP:N7	2.66	0.43
9:RJ:204:ASN:ND2	52:RJ:502:GDP:N3	2.67	0.43
9:RL:154:LYS:HE2	9:RL:158:GLU:HB2	2.01	0.43
9:RL:244:GLY:N	9:RL:247:ASN:OD1	2.47	0.43
8:RM:90:GLU:OE1	8:RM:90:GLU:N	2.51	0.43
8:RM:239:THR:OG1	8:RM:243:ARG:NH1	2.52	0.43
8:RO:30:ILE:HG13	8:RO:53:PHE:CZ	2.54	0.43
9:RP:367:PHE:C	9:RP:368:ILE:HD13	2.44	0.43
29:S:122:LEU:HB3	29:S:132:ARG:HH22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S0:252:HIS:O	12:S0:255:GLU:HG2	2.19	0.43
12:S1:219:LEU:HD23	12:S1:219:LEU:HA	1.79	0.43
12:S2:446:GLN:HE22	12:S7:284:PHE:HA	1.83	0.43
12:S6:132:TYR:O	12:S6:136:ARG:HG2	2.19	0.43
12:S7:53:ASN:OD1	12:S7:53:ASN:N	2.51	0.43
8:SA:91:GLN:HA	8:SA:121:ARG:HD3	2.01	0.43
9:SD:327:ASP:HB3	8:SE:210:TYR:OH	2.19	0.43
8:SG:260:VAL:HB	9:SH:397:TRP:HZ2	1.83	0.43
8:SG:395:PHE:CD2	8:SG:422:ARG:HD3	2.54	0.43
9:SH:318:ARG:HG2	9:SH:358:PRO:HD3	2.01	0.43
8:SI:223:THR:OG1	8:SI:224:TYR:N	2.52	0.43
9:SJ:5:VAL:HB	9:SJ:133:PHE:HD1	1.82	0.43
9:SJ:204:ASN:ND2	52:SJ:502:GDP:N3	2.67	0.43
8:SK:136:LEU:HB3	8:SK:138:PHE:CE1	2.54	0.43
9:SL:262:ARG:HH21	9:SL:418:LEU:HD23	1.84	0.43
8:SM:345:ASP:OD1	8:SM:345:ASP:N	2.50	0.43
9:SN:274:THR:HB	9:SN:278:SER:HB2	2.01	0.43
25:T:265:HIS:HB2	25:T:274:GLU:HG2	2.01	0.43
25:T:296:ARG:HD3	25:T:296:ARG:HA	1.84	0.43
25:T:355:TYR:HA	25:T:359:PHE:HB2	2.01	0.43
14:T1:137:ARG:NH1	14:T1:443:LEU:HB3	2.34	0.43
14:T4:63:ARG:NH2	14:T5:411:SER:OG	2.52	0.43
8:TA:17:GLY:O	8:TA:21:TRP:HB2	2.19	0.43
8:TC:145:THR:HB	50:TC:501:GTP:O1B	2.19	0.43
9:TF:156:ARG:HG3	9:TF:195:ASN:HB3	2.01	0.43
9:TH:321:MET:HE3	9:TH:363:MET:SD	2.59	0.43
9:TJ:276:ARG:O	9:TJ:276:ARG:NH1	2.52	0.43
8:TK:27:GLU:OE2	8:TK:320:ARG:NH2	2.50	0.43
9:TL:36:TYR:HE1	9:TL:43:GLN:HG2	1.83	0.43
9:TL:138:SER:HA	9:TL:169:VAL:HB	2.01	0.43
30:U2:198:ARG:HB3	30:U2:201:ARG:NH2	2.34	0.43
30:U2:271:ARG:NH1	30:U2:271:ARG:HA	2.34	0.43
30:U5:95:TRP:NE1	30:U5:99:ASN:HD21	2.17	0.43
30:U6:159:GLU:HG2	30:U6:304:ILE:HG13	2.01	0.43
30:U6:345:ALA:O	30:U6:348:SER:OG	2.31	0.43
30:U9:188:LEU:O	30:U9:192:LEU:HG	2.18	0.43
9:UD:269:GLY:HA2	9:UD:300:MET:HE3	1.99	0.43
9:UD:407:GLU:HA	9:UD:410:GLU:HG2	2.00	0.43
8:UI:66:VAL:HG12	8:UI:68:VAL:HG23	2.01	0.43
9:UJ:10:GLY:O	9:UJ:14:ASN:ND2	2.52	0.43
9:UJ:133:PHE:O	9:UJ:165:ASN:ND2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UJ:230:SER:HA	9:UJ:233:MET:HE3	2.01	0.43
8:UM:338:LYS:HE2	8:UM:340:THR:HB	2.00	0.43
9:UN:118:ASP:HA	9:UN:121:ARG:HE	1.83	0.43
9:UN:208:TYR:CE1	9:UN:225:LEU:HD11	2.54	0.43
30:V1:152:TRP:HB2	30:V1:257:LYS:HZ1	1.84	0.43
30:V3:402:ARG:NH1	30:V3:408:CYS:H	2.17	0.43
30:V7:276:SER:O	30:V7:277:ILE:C	2.61	0.43
30:V7:396:LEU:O	30:V7:400:THR:HG23	2.18	0.43
8:VA:16:ILE:HG21	8:VA:138:PHE:CD2	2.54	0.43
8:VA:62:VAL:HG11	8:WA:283:HIS:CD2	2.54	0.43
8:VA:90:GLU:HB3	8:WA:280:LYS:NZ	2.33	0.43
9:VB:372:THR:HA	9:VB:422:TYR:CE1	2.47	0.43
8:VE:7:ILE:O	8:VE:9:VAL:HG23	2.18	0.43
8:VE:132:LEU:HA	8:VE:132:LEU:HD12	1.80	0.43
8:VG:108:TYR:HB2	8:VG:411:GLU:OE2	2.19	0.43
8:VG:182:VAL:O	8:VG:186:ASN:ND2	2.52	0.43
8:VG:324:VAL:O	8:VG:328:VAL:HG23	2.19	0.43
9:VH:313:VAL:HG12	9:VH:349:VAL:HG13	2.00	0.43
9:VJ:130:LEU:O	9:VJ:162:ARG:NH1	2.50	0.43
9:VL:28:HIS:HD1	9:VL:43:GLN:HB3	1.84	0.43
8:VM:240:ALA:HA	8:VM:243:ARG:CZ	2.49	0.43
31:W:234:CYS:HB2	31:W:249:PHE:HB2	2.00	0.43
30:W0:176:ARG:HG3	30:W0:318:ARG:NH2	2.33	0.43
30:W4:186:CYS:O	30:W4:190:VAL:HG23	2.18	0.43
30:W5:201:ARG:HH21	30:W5:207:VAL:H	1.66	0.43
30:W7:438:GLN:O	30:W7:442:GLN:HG2	2.19	0.43
8:WA:287:SER:O	8:WA:291:ILE:HG12	2.18	0.43
8:WA:316:CYS:HA	8:WA:352:LYS:HB2	2.00	0.43
8:WE:312:TYR:HA	8:WE:381:THR:HB	2.01	0.43
9:WF:234:SER:O	9:WF:238:THR:HG23	2.19	0.43
9:WJ:299:MET:HB3	9:WJ:299:MET:HE3	1.60	0.43
9:WL:324:LYS:HE2	9:WL:324:LYS:HB3	1.87	0.43
9:WN:139:LEU:HB3	9:WN:171:PRO:HD3	2.00	0.43
8:WO:118:VAL:HG21	8:WO:149:PHE:HZ	1.83	0.43
9:WP:156:ARG:HD2	9:WP:156:ARG:HA	1.61	0.43
33:X5:84:LYS:NZ	33:X5:89:GLN:HG3	2.34	0.43
34:X6:69:HIS:HB3	34:X6:72:ILE:HD12	2.00	0.43
34:X6:112:ALA:O	34:X6:116:PHE:N	2.45	0.43
34:X6:144:SER:OG	34:X6:148:ARG:N	2.41	0.43
34:X7:14:LEU:HA	34:X7:29:ALA:HA	2.00	0.43
35:XE:81:LYS:HB3	35:XE:129:TRP:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Y1:178:LYS:HD3	36:Y1:178:LYS:HA	1.77	0.43
37:YA:97:PHE:HB3	37:YA:136:PRO:HB2	2.01	0.43
37:YC:165:MET:HE1	37:YC:168:GLU:HB2	2.01	0.43
31:Z:553:LYS:HE2	31:Z:553:LYS:HB2	1.94	0.43
17:Z4:219:SER:HB2	17:Z4:237:ARG:HH12	1.83	0.43
39:d:416:THR:O	39:d:420:LEU:HG	2.19	0.43
42:e:394:ASP:N	42:e:394:ASP:OD1	2.51	0.43
42:f:17:GLN:OE1	42:f:612:LEU:HD22	2.19	0.43
42:f:21:GLY:HA2	42:f:330:CYS:SG	2.59	0.43
42:g:282:LYS:HA	42:g:282:LYS:HD3	1.67	0.43
44:h1:84:LEU:HD12	44:h1:85:GLU:CG	2.49	0.43
46:i2:1367:VAL:HG13	46:i2:1372:LEU:HB2	2.01	0.43
4:j1:26:PHE:HD2	4:j1:102:THR:HG22	1.83	0.43
47:p:249:LYS:NZ	47:p:253:SER:HB3	2.34	0.43
47:p:298:LYS:O	47:p:302:ILE:HG13	2.19	0.43
47:p:369:LYS:O	47:p:373:GLU:HG2	2.19	0.43
2:1:400:ASP:HB3	2:1:403:ASN:HB2	1.99	0.42
3:3:368:LYS:N	3:3:371:LYS:HE3	2.33	0.42
3:4:490:ILE:O	3:4:493:GLU:HG2	2.19	0.42
3:4:494:ASN:N	3:4:494:ASN:OD1	2.51	0.42
6:A:78:PHE:HB3	6:A:82:TYR:OH	2.19	0.42
7:A0:344:ILE:O	7:A0:348:VAL:HG12	2.19	0.42
7:A4:379:LYS:HA	7:A4:379:LYS:HD3	1.91	0.42
8:AA:302:MET:HE3	8:AA:302:MET:HA	2.01	0.42
8:AC:231:ILE:HA	8:AC:234:ILE:HD12	2.00	0.42
9:AD:295:ASP:CG	9:AD:297:LYS:HG2	2.44	0.42
9:AD:313:VAL:HB	9:AD:349:VAL:HG22	2.01	0.42
8:AG:11:GLN:HE21	8:AG:15:GLN:HE22	1.66	0.42
8:AG:425:LEU:O	8:AG:429:GLU:HG2	2.19	0.42
8:AK:251:ASP:HB3	8:AK:254:GLU:HG2	2.01	0.42
9:AL:55:THR:N	9:BL:282:ARG:O	2.48	0.42
9:AN:213:ARG:NE	9:AN:297:LYS:HD2	2.33	0.42
8:AO:353:VAL:HB	9:AP:177:ASP:HB2	2.01	0.42
10:B:110:MET:O	10:B:114:VAL:HG12	2.19	0.42
10:B:132:TYR:CD2	10:C:459:LEU:HD22	2.54	0.42
11:B1:45:LEU:HD21	11:B2:352:MET:HG2	2.01	0.42
11:B2:183:LEU:HD23	11:B2:183:LEU:HA	1.89	0.42
11:B2:195:THR:O	11:B2:195:THR:OG1	2.36	0.42
9:BD:257:MET:SD	9:BD:312:THR:OG1	2.70	0.42
8:BE:54:SER:HA	8:BE:64:ARG:HH21	1.83	0.42
8:BE:149:PHE:O	8:BE:153:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BF:299:MET:HE2	9:BF:299:MET:HA	1.99	0.42
9:BH:3:GLU:N	9:BH:3:GLU:OE1	2.51	0.42
9:BH:77:ARG:O	31:X:323:TYR:OH	2.24	0.42
8:BI:261:PRO:HG3	8:BI:313:MET:HE2	2.00	0.42
9:BJ:210:ILE:HD11	9:BJ:297:LYS:O	2.18	0.42
9:BJ:313:VAL:HG12	9:BJ:349:VAL:HG13	2.01	0.42
10:C:477:LEU:O	10:C:481:PHE:HB2	2.19	0.42
12:C4:244:LEU:HD22	11:R4:416:ASN:HD21	1.84	0.42
9:CB:253:LEU:O	9:CB:257:MET:N	2.51	0.42
9:CB:344:TRP:CD1	9:CB:344:TRP:H	2.37	0.42
8:CC:297:GLU:O	8:CC:301:GLN:NE2	2.39	0.42
9:CD:289:LEU:HD23	9:CD:289:LEU:HA	1.86	0.42
9:CD:323:MET:HG3	8:CE:224:TYR:CD1	2.55	0.42
9:CD:345:ILE:HG23	8:CE:398:MET:HE1	2.01	0.42
9:CH:43:GLN:HE21	9:CH:43:GLN:HB2	1.73	0.42
8:CI:437:VAL:O	9:CJ:391:ARG:NH2	2.32	0.42
9:CL:217:LEU:HB2	9:CL:220:PRO:HG3	2.01	0.42
9:CP:38:GLY:O	40:a4:50:LYS:NZ	2.44	0.42
14:D1:430:CYS:O	14:D1:434:ARG:HG3	2.19	0.42
14:D2:132:MET:HE3	14:D2:132:MET:HB2	1.92	0.42
14:D3:441:LEU:HB3	14:D3:446:TYR:HA	2.01	0.42
9:DB:105:HIS:HE1	9:DB:150:LEU:HD13	1.83	0.42
8:DC:76:ASP:O	8:DC:80:THR:HG23	2.18	0.42
9:DD:63:ALA:O	9:DD:89:ASN:ND2	2.52	0.42
9:DD:199:THR:O	9:DD:266:PHE:N	2.44	0.42
9:DD:271:ALA:HB2	9:DD:293:MET:HG3	2.01	0.42
9:DF:253:LEU:O	9:DF:257:MET:N	2.51	0.42
9:DJ:7:LEU:N	9:DJ:134:GLN:O	2.40	0.42
9:DJ:84:ILE:HD12	9:DJ:84:ILE:HA	1.85	0.42
8:DK:109:THR:N	8:DK:112:LYS:HZ1	2.16	0.42
9:DL:130:LEU:O	9:DL:162:ARG:NH1	2.44	0.42
8:DM:398:MET:HE2	8:DM:398:MET:HB3	1.80	0.42
9:DN:255:VAL:HG23	8:DO:407:TRP:CG	2.54	0.42
8:DO:62:VAL:HG21	8:EM:283:HIS:O	2.19	0.42
9:DP:73:MET:HE2	9:DP:92:PHE:HB3	2.01	0.42
9:DP:318:ARG:HD3	9:DP:358:PRO:HD3	2.00	0.42
8:DQ:6:SER:HB3	8:DQ:8:HIS:CD2	2.54	0.42
15:E:50:ILE:HD12	15:E:95:MET:HE1	2.01	0.42
8:EC:246:GLY:HA2	8:EC:357:TYR:HD1	1.84	0.42
9:EF:382:SER:HB2	9:EF:415:MET:CE	2.49	0.42
9:EH:197:ASP:OD1	9:EH:197:ASP:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EH:198:GLU:HA	9:EH:264:HIS:HB2	2.01	0.42
9:EH:257:MET:SD	9:EH:314:ALA:HB2	2.59	0.42
8:EI:46:ASP:OD1	8:EI:47:ASP:N	2.52	0.42
9:EJ:334:GLN:OE1	9:EJ:348:ASN:N	2.51	0.42
8:EK:68:VAL:HG12	8:EK:93:ILE:HB	2.01	0.42
9:FB:183:TYR:CZ	9:FB:388:MET:HE2	2.54	0.42
8:FC:296:PHE:CZ	8:FC:377:MET:HE1	2.54	0.42
9:FD:415:MET:SD	9:FD:416:ASN:N	2.92	0.42
9:FH:184:ASN:O	9:FH:188:SER:OG	2.28	0.42
8:FI:326:LYS:CE	9:FJ:220:PRO:HD2	2.49	0.42
8:FK:71:GLU:N	8:FK:71:GLU:OE1	2.52	0.42
9:FL:309:ARG:H	9:FL:372:THR:HB	1.84	0.42
16:G:117:ASN:OD1	8:GM:121:ARG:NH1	2.52	0.42
9:GF:238:THR:HG21	9:GF:318:ARG:HD3	2.00	0.42
8:GI:370:LYS:NZ	8:GI:371:VAL:O	2.52	0.42
8:GM:5:ILE:HD11	8:GM:129:CYS:SG	2.59	0.42
8:GO:2:ARG:HD3	8:GO:242:LEU:HD22	2.00	0.42
8:HC:168:GLU:O	8:HC:201:ALA:HA	2.19	0.42
9:HD:77:ARG:HH12	9:HD:83:GLN:HG2	1.83	0.42
8:HG:41:THR:O	8:HG:43:GLY:N	2.52	0.42
9:HH:36:TYR:CD1	9:HH:44:LEU:HD22	2.54	0.42
8:HI:291:ILE:HD11	8:HI:375:VAL:HG12	2.00	0.42
8:HK:27:GLU:OE1	8:HK:243:ARG:NH2	2.52	0.42
8:HK:252:LEU:HA	8:HK:255:PHE:CD2	2.54	0.42
8:HM:320:ARG:NH2	8:HM:360:PRO:HA	2.34	0.42
8:HO:367:ASP:OD1	8:HO:368:LEU:HD12	2.19	0.42
9:HP:238:THR:HA	9:HP:241:ARG:HE	1.84	0.42
9:HP:413:SER:O	9:HP:417:ASP:N	2.44	0.42
8:IA:166:LYS:HG2	8:IA:199:ASP:OD2	2.19	0.42
8:IA:286:LEU:HD23	8:IA:286:LEU:HA	1.84	0.42
8:IC:292:THR:OG1	8:IC:319:TYR:OH	2.26	0.42
8:II:79:ARG:HH21	8:II:94:THR:HG23	1.84	0.42
8:II:387:ALA:O	8:II:390:ARG:HG2	2.19	0.42
9:IJ:134:GLN:OE1	9:IJ:165:ASN:HB2	2.19	0.42
9:IJ:189:VAL:HG11	9:IJ:415:MET:SD	2.59	0.42
9:IJ:415:MET:HE2	9:IJ:415:MET:HB3	1.85	0.42
8:IK:17:GLY:HA2	8:IK:20:CYS:SG	2.60	0.42
8:IK:254:GLU:HG2	9:IL:98:GLY:HA2	2.01	0.42
8:IK:433:GLU:O	8:IK:437:VAL:HG23	2.20	0.42
8:IM:326:LYS:HD3	9:IN:220:PRO:HG2	2.01	0.42
8:IO:107:HIS:HA	8:IO:152:LEU:HD23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IO:108:TYR:HB2	8:IO:411:GLU:OE2	2.19	0.42
9:IP:227:HIS:HD1	9:IP:227:HIS:C	2.27	0.42
19:J4:53:VAL:HB	19:J4:58:PHE:HZ	1.84	0.42
9:JB:150:LEU:HG	9:JB:154:LYS:HE2	2.00	0.42
9:JD:8:GLN:HG2	9:JD:14:ASN:HA	2.01	0.42
9:JD:45:GLU:OE1	9:JD:46:ARG:HG3	2.19	0.42
9:JD:290:THR:OG1	9:JD:329:GLN:OE1	2.31	0.42
9:JD:311:LEU:HD13	9:JD:342:VAL:HG11	2.01	0.42
9:JF:152:ILE:HG22	9:JF:195:ASN:ND2	2.34	0.42
8:JG:352:LYS:NZ	9:JH:178:THR:OG1	2.31	0.42
9:JH:251:ARG:HD2	8:JI:105:ARG:NH1	2.34	0.42
9:JL:350:LYS:HD3	8:JM:180:ALA:HA	2.01	0.42
8:JM:239:THR:HB	8:JM:243:ARG:NH1	2.34	0.42
8:JO:112:LYS:O	8:JO:112:LYS:NZ	2.41	0.42
8:JQ:16:ILE:HD11	8:JQ:171:ILE:HD11	2.01	0.42
8:JQ:227:LEU:O	8:JQ:230:LEU:HG	2.19	0.42
20:K2:65:GLU:HB2	39:d:436:ALA:CB	2.49	0.42
8:KC:50:ASN:O	8:KC:64:ARG:NH1	2.52	0.42
8:KG:225:THR:HA	8:KG:228:ASN:HB2	2.00	0.42
9:KH:251:ARG:O	9:KH:255:VAL:HG12	2.20	0.42
9:KJ:249:ASP:OD1	9:KJ:252:LYS:HB2	2.19	0.42
9:KJ:299:MET:H	9:KJ:299:MET:HG2	1.66	0.42
8:KK:53:PHE:HB3	8:KK:61:HIS:HB3	2.01	0.42
8:KK:312:TYR:CE2	8:KK:341:ILE:HG23	2.54	0.42
9:KL:167:PHE:CE2	9:KL:233:MET:HG2	2.54	0.42
8:KM:344:VAL:HG22	8:KM:347:CYS:SG	2.58	0.42
8:KM:438:ASP:HA	9:KN:391:ARG:HH21	1.84	0.42
8:KO:105:ARG:HH21	8:KO:110:ILE:HG12	1.84	0.42
8:KO:346:TRP:CE3	9:KP:391:ARG:HG3	2.54	0.42
8:LA:138:PHE:HA	8:LA:169:PHE:O	2.19	0.42
8:LA:264:ARG:HE	43:h:84:LYS:NZ	2.16	0.42
8:LC:14:VAL:HG13	8:LC:67:PHE:CD2	2.52	0.42
9:LD:300:MET:HE2	9:LD:300:MET:HB3	1.80	0.42
9:LD:374:ILE:HD11	9:LD:422:TYR:CZ	2.54	0.42
8:LG:70:LEU:HD23	8:LG:95:GLY:HA3	2.00	0.42
8:LG:219:ILE:HB	8:LG:222:PRO:HG3	2.00	0.42
9:LH:321:MET:HE3	9:LH:321:MET:HB2	1.87	0.42
8:LI:172:TYR:HB2	8:LI:203:MET:HB2	2.00	0.42
9:LL:139:LEU:HA	9:LL:145:SER:HB3	2.01	0.42
8:LO:326:LYS:NZ	9:LP:208:TYR:HB3	2.34	0.42
22:M1:165:LEU:HD21	27:P3:87:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MA:247:ALA:HA	23:P:379:ARG:NE	2.34	0.42
9:MB:47:ILE:HG22	9:MB:51:TYR:CD1	2.54	0.42
9:MB:429:THR:HB	9:MB:431:GLU:HG2	2.00	0.42
8:MG:174:ALA:HB3	8:MG:177:VAL:O	2.18	0.42
8:MG:259:LEU:HD12	8:MG:259:LEU:HA	1.83	0.42
9:MH:10:GLY:O	9:MH:14:ASN:ND2	2.52	0.42
8:MO:226:ASN:ND2	8:MO:367:ASP:OD2	2.46	0.42
9:ND:174:LYS:HZ3	9:ND:380:ARG:HH12	1.67	0.42
9:NF:3:GLU:N	9:NF:3:GLU:OE1	2.52	0.42
9:NF:351:THR:OG1	9:NF:352:ALA:N	2.52	0.42
8:NG:431:ASP:HA	8:NG:434:GLU:HG2	1.99	0.42
9:NH:36:TYR:CZ	9:NH:44:LEU:HD22	2.54	0.42
9:NJ:134:GLN:HB2	9:NJ:165:ASN:HD21	1.84	0.42
8:NK:17:GLY:O	8:NK:21:TRP:HE3	2.02	0.42
8:NK:136:LEU:HA	8:NK:167:LEU:HD12	2.01	0.42
9:NL:1:MET:HG2	9:NL:2:ARG:N	2.34	0.42
9:NN:16:ILE:O	9:NN:20:PHE:N	2.48	0.42
9:NN:281:TYR:H	9:NN:282:ARG:NH1	2.17	0.42
9:OB:310:TYR:CD1	9:OB:371:SER:HB2	2.54	0.42
8:OE:288:VAL:HG21	8:OE:327:ASP:OD1	2.19	0.42
9:OF:132:GLY:HA3	9:OF:163:ILE:O	2.18	0.42
9:OF:237:THR:OG1	9:OF:241:ARG:NH1	2.52	0.42
8:OG:259:LEU:HD12	8:OG:259:LEU:HA	1.91	0.42
8:OG:264:ARG:HH12	8:OG:428:LEU:HA	1.83	0.42
9:OH:182:PRO:HB3	9:OH:384:GLN:HG3	2.01	0.42
8:OI:121:ARG:HA	8:OI:124:LYS:HD2	2.01	0.42
8:OI:168:GLU:HB3	8:OI:201:ALA:HA	2.01	0.42
8:OK:138:PHE:HA	8:OK:169:PHE:O	2.19	0.42
23:P:150:ALA:HA	23:P:153:VAL:HG12	2.00	0.42
26:P2:62:LYS:HE3	26:P2:62:LYS:HB2	1.73	0.42
27:P3:134:CYS:HB3	27:P3:153:LEU:HD12	2.00	0.42
27:P3:171:ARG:CZ	11:R1:24:LEU:HG	2.49	0.42
9:PB:263:LEU:HD22	9:PB:422:TYR:CD2	2.54	0.42
9:PD:10:GLY:O	9:PD:14:ASN:ND2	2.52	0.42
8:PE:217:LEU:HD21	8:PE:368:LEU:HD22	2.00	0.42
9:PH:58:LYS:HZ2	9:PH:60:VAL:HG12	1.83	0.42
9:PH:84:ILE:HD12	9:PH:84:ILE:HA	1.88	0.42
8:PK:69:ASP:O	8:PK:94:THR:HA	2.19	0.42
9:PL:290:THR:HG21	9:PL:329:GLN:HB2	2.01	0.42
28:Q1:63:TRP:H	28:Q1:63:TRP:CD1	2.37	0.42
28:Q5:51:PHE:CD2	28:Q5:58:ALA:HB1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QC:295:CYS:HB3	8:QC:377:MET:HE2	2.01	0.42
8:QE:208:ALA:HB1	8:QE:302:MET:HA	2.01	0.42
9:QF:67:ASP:HB3	9:QF:73:MET:HE1	2.00	0.42
9:QF:192:LEU:HD21	9:QF:199:THR:HG21	2.00	0.42
9:QF:257:MET:HE3	9:QF:368:ILE:HG22	2.01	0.42
8:QG:171:ILE:O	8:QG:171:ILE:HG13	2.19	0.42
8:QI:19:ALA:HB1	8:QI:229:ARG:HH11	1.84	0.42
8:QI:154:MET:HE3	8:QI:154:MET:HB2	1.96	0.42
9:QJ:329:GLN:HG3	9:QJ:330:MET:SD	2.59	0.42
9:QN:16:ILE:HD13	9:QN:229:VAL:HG11	2.01	0.42
9:QN:219:THR:O	9:QN:219:THR:OG1	2.32	0.42
9:QN:257:MET:HB3	9:QN:266:PHE:CZ	2.53	0.42
9:QN:372:THR:HA	9:QN:422:TYR:CE1	2.52	0.42
11:R2:321:ARG:HB3	11:R2:324:ARG:HH11	1.83	0.42
11:R4:117:LEU:HD13	11:R4:137:LEU:HD12	2.01	0.42
9:RD:26:ASP:O	9:RD:359:ARG:NH1	2.52	0.42
9:RD:153:SER:HA	9:RD:195:ASN:HD22	1.84	0.42
9:RD:202:ILE:HA	9:RD:300:MET:SD	2.58	0.42
9:RD:323:MET:SD	9:RD:323:MET:N	2.92	0.42
8:RE:2:ARG:H	8:RE:2:ARG:HG3	1.62	0.42
8:RE:11:GLN:HB3	50:RE:501:GTP:PA	2.59	0.42
8:RE:209:ILE:HD12	8:RE:227:LEU:HD23	2.01	0.42
8:RK:288:VAL:O	8:RK:292:THR:HG22	2.18	0.42
9:RL:130:LEU:O	9:RL:162:ARG:NH1	2.45	0.42
9:RN:174:LYS:C	9:RN:174:LYS:HD2	2.44	0.42
9:RN:406:MET:HA	9:RN:406:MET:HE2	2.01	0.42
12:S5:141:HIS:NE2	12:S5:145:ASN:OD1	2.52	0.42
12:S9:388:GLU:HG2	12:S9:389:LYS:HD3	2.01	0.42
8:SA:304:LYS:HD3	8:SA:304:LYS:HA	1.63	0.42
8:SA:338:LYS:HE2	8:SA:340:THR:HB	2.00	0.42
9:SD:324:LYS:HB2	8:SE:221:ARG:HE	1.83	0.42
9:SD:344:TRP:CH2	8:SE:400:ALA:HB3	2.54	0.42
9:SH:12:CYS:SG	9:SH:138:SER:HB3	2.58	0.42
8:SI:66:VAL:HG21	8:SI:122:ILE:HD13	2.00	0.42
9:SJ:232:THR:HG21	9:SJ:300:MET:HE3	2.01	0.42
14:T4:201:ILE:O	14:T4:205:ARG:HD2	2.18	0.42
9:TB:324:LYS:NZ	8:TC:214:ARG:HB2	2.35	0.42
9:TD:20:PHE:CG	9:TD:233:MET:HE1	2.54	0.42
9:TF:113:VAL:HG13	9:TF:147:MET:HE1	2.00	0.42
9:TF:178:THR:HG22	9:TF:180:VAL:H	1.84	0.42
8:TG:83:TYR:HB3	8:TG:86:LEU:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TI:226:ASN:HA	8:TI:229:ARG:HE	1.84	0.42
8:TI:298:PRO:HG3	8:TI:308:ARG:HE	1.84	0.42
9:TN:279:GLN:HE21	9:TN:279:GLN:HB3	1.68	0.42
25:U:249:TRP:O	25:U:259:CYS:HA	2.19	0.42
25:U:407:LYS:HZ2	25:U:408:ASP:N	2.16	0.42
30:U1:396:LEU:HD12	30:U1:396:LEU:HA	1.87	0.42
30:U1:406:GLU:CD	30:U2:296:TRP:HE1	2.27	0.42
30:U6:140:ARG:HA	30:V2:140:ARG:CZ	2.48	0.42
30:U8:333:TRP:CZ3	30:U8:476:PHE:HB3	2.54	0.42
8:UA:287:SER:O	8:UA:291:ILE:HG12	2.19	0.42
9:UB:323:MET:HA	9:UB:326:VAL:HB	2.00	0.42
8:UC:130:THR:OG1	8:UC:131:GLY:N	2.51	0.42
9:UF:274:THR:OG1	9:UF:282:ARG:NH1	2.51	0.42
8:UG:215:ARG:NH1	8:UG:216:ASN:OD1	2.52	0.42
8:UI:152:LEU:O	8:UI:156:ARG:HG2	2.19	0.42
9:UL:16:ILE:HD13	9:UL:229:VAL:HG11	2.01	0.42
9:UL:54:ALA:HA	9:VL:283:ALA:HB2	2.00	0.42
9:UL:146:GLY:O	9:UL:149:THR:OG1	2.33	0.42
8:UM:88:HIS:HB2	8:VM:283:HIS:NE2	2.33	0.42
8:UM:102:ASN:HB3	8:UM:105:ARG:HB2	2.00	0.42
9:UN:36:TYR:CG	9:UN:44:LEU:HD22	2.54	0.42
8:UO:21:TRP:HA	8:UO:24:TYR:HD1	1.84	0.42
8:UO:259:LEU:HD12	8:UO:259:LEU:HA	1.92	0.42
30:V2:406:GLU:OE2	30:V3:256:ASP:HB3	2.19	0.42
30:V3:189:GLN:O	30:V3:193:GLU:HG2	2.18	0.42
30:V3:316:ARG:HA	30:V3:319:GLU:HG3	2.01	0.42
30:V6:433:ARG:HA	30:V6:433:ARG:NH1	2.34	0.42
30:V7:152:TRP:O	30:V7:156:LEU:HG	2.19	0.42
30:V7:368:ILE:HB	30:W0:391:MET:HE1	2.01	0.42
8:VA:138:PHE:HZ	8:VA:235:VAL:HG21	1.84	0.42
8:VA:338:LYS:HD3	8:VA:341:ILE:HG12	2.01	0.42
8:VC:102:ASN:ND2	8:VC:105:ARG:HG3	2.34	0.42
8:VK:80:THR:O	8:VK:84:ARG:NH2	2.52	0.42
8:VK:317:MET:HE3	8:VK:318:LEU:H	1.83	0.42
9:VN:77:ARG:HD2	9:VN:77:ARG:HA	1.78	0.42
8:VO:317:MET:SD	8:VO:318:LEU:N	2.92	0.42
30:W4:198:ARG:NH1	30:W4:465:ASP:OD2	2.52	0.42
30:W6:123:ILE:HG13	30:W6:124:MET:N	2.33	0.42
30:W7:350:GLU:HB3	30:W7:462:LEU:HD21	2.01	0.42
9:WB:293:MET:HE3	9:WB:294:PHE:CE2	2.54	0.42
8:WE:103:TYR:CE2	8:WE:413:MET:HE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WE:155:GLU:HA	8:WE:197:HIS:CE1	2.53	0.42
9:WH:1:MET:N	9:WH:3:GLU:OE1	2.47	0.42
8:WI:7:ILE:HA	8:WI:66:VAL:HG23	2.01	0.42
8:WK:102:ASN:HB3	8:WK:105:ARG:HB2	2.00	0.42
8:WK:416:GLY:O	8:WK:420:GLU:HG2	2.19	0.42
35:XH:26:ASP:HB2	35:XH:63:ALA:HA	2.01	0.42
36:Y4:78:LYS:HE2	36:Y4:78:LYS:HB3	1.85	0.42
37:YB:60:TYR:CD2	37:YB:67:ILE:HD11	2.54	0.42
37:YD:148:ILE:O	37:YD:152:THR:OG1	2.30	0.42
37:YG:64:ASP:O	37:YG:92:TYR:OH	2.32	0.42
37:YH:29:LYS:O	37:YH:32:MET:HB2	2.19	0.42
37:YH:38:ARG:NH1	37:YH:40:PRO:HA	2.34	0.42
37:YH:115:ILE:HG12	37:YH:118:MET:HE2	1.99	0.42
40:a2:40:LYS:HE3	40:a2:40:LYS:HB3	1.78	0.42
42:e:355:ASP:HB3	42:e:371:THR:HA	2.01	0.42
42:g:170:ARG:HG2	42:g:172:GLU:H	1.84	0.42
43:j:229:LYS:HA	43:j:229:LYS:HD3	1.90	0.42
4:j1:25:ARG:HD2	4:j1:46:LEU:HD11	1.99	0.42
4:j1:72:GLU:H	4:j1:72:GLU:HG3	1.66	0.42
47:o:198:GLU:OE2	47:o:201:ARG:NH1	2.52	0.42
47:p:402:LYS:HD2	47:p:403:ALA:N	2.34	0.42
48:r:147:SER:OG	48:r:149:HIS:O	2.37	0.42
2:2:274:PHE:HE1	2:2:277:ARG:HE	1.68	0.42
2:2:315:PHE:CZ	9:HJ:57:GLY:HA2	2.54	0.42
2:2:399:MET:HE3	2:2:399:MET:HB2	1.86	0.42
4:5:197:PRO:O	4:5:203:SER:OG	2.37	0.42
4:6:127:GLU:OE1	4:6:281:ARG:NH1	2.51	0.42
1:7:222:ARG:NH2	1:7:224:PRO:HA	2.34	0.42
7:A1:391:MET:O	7:A1:395:LYS:HG3	2.19	0.42
9:AB:129:CYS:HB3	8:AC:96:LYS:NZ	2.26	0.42
9:AD:359:ARG:NH1	33:X4:128:VAL:HG11	2.34	0.42
8:AE:5:ILE:HG12	8:AE:132:LEU:HD11	2.01	0.42
9:AF:324:LYS:HD3	8:AG:222:PRO:HG2	2.01	0.42
9:AH:62:ARG:HD3	9:AH:127:CYS:SG	2.60	0.42
9:AH:287:PRO:HG3	9:AH:329:GLN:NE2	2.34	0.42
9:AJ:197:ASP:N	9:AJ:197:ASP:OD1	2.50	0.42
8:AM:381:THR:OG1	8:AM:382:THR:N	2.50	0.42
8:AO:28:HIS:HE1	8:AO:243:ARG:HD2	1.84	0.42
9:AP:276:ARG:HA	9:AP:279:GLN:HG2	2.01	0.42
10:B:306:LEU:HD11	8:HA:364:PRO:HG3	2.01	0.42
11:B0:31:GLN:HE21	11:B1:366:LEU:HD22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B3:96:LYS:O	11:B3:100:GLU:HG2	2.19	0.42
11:B3:391:MET:HE2	11:B3:391:MET:HB2	1.60	0.42
11:B5:303:ASP:O	11:B5:306:ARG:HG2	2.19	0.42
9:BF:330:MET:HE2	9:BF:351:THR:HG22	2.00	0.42
9:BF:333:VAL:HA	9:BF:336:LYS:HG2	2.00	0.42
9:BJ:309:ARG:O	9:BJ:372:THR:OG1	2.29	0.42
9:BJ:372:THR:HG21	9:BJ:426:GLN:HB2	2.00	0.42
9:BL:238:THR:HG21	9:BL:318:ARG:HG3	1.99	0.42
10:C:231:ARG:O	10:C:235:LEU:HG	2.18	0.42
12:C1:164:LEU:HD21	12:C1:255:GLU:OE2	2.19	0.42
9:CB:4:ILE:HD13	9:CB:4:ILE:HA	1.83	0.42
9:CB:245:GLN:O	8:CC:11:GLN:NE2	2.51	0.42
8:CC:20:CYS:SG	8:CC:21:TRP:N	2.92	0.42
8:CC:426:ALA:O	8:CC:430:LYS:HG2	2.19	0.42
9:CD:183:TYR:CE1	9:CD:388:MET:HE2	2.54	0.42
9:CD:184:ASN:OD1	9:CD:398:TYR:OH	2.27	0.42
9:CJ:334:GLN:HE22	9:CJ:348:ASN:H	1.66	0.42
8:CK:88:HIS:HE2	8:DK:284:GLU:HG2	1.83	0.42
8:CO:268:PRO:HA	8:CO:380:ASN:HA	2.00	0.42
8:CO:316:CYS:C	8:CO:317:MET:HE2	2.44	0.42
9:CP:42:LEU:HD23	9:CP:42:LEU:HA	1.74	0.42
9:CP:345:ILE:HA	8:CQ:398:MET:HE1	1.99	0.42
8:CQ:292:THR:HG21	8:CQ:331:ALA:HB1	2.00	0.42
14:D1:25:LYS:HD2	12:S2:77:GLU:O	2.19	0.42
14:D5:357:LEU:HD23	14:D5:357:LEU:HA	1.91	0.42
9:DB:52:ASN:HB3	9:DB:60:VAL:HG23	1.99	0.42
8:DC:84:ARG:NH1	17:H:56:LEU:HD12	2.34	0.42
8:DC:227:LEU:O	8:DC:231:ILE:HG13	2.19	0.42
9:DD:101:TRP:HB2	9:DD:184:ASN:OD1	2.19	0.42
9:DF:172:SER:HB2	9:DF:203:ASP:OD1	2.19	0.42
9:DH:219:THR:O	9:DH:219:THR:OG1	2.27	0.42
9:DJ:238:THR:HA	9:DJ:241:ARG:HH21	1.84	0.42
8:DM:84:ARG:H	8:DM:84:ARG:HG2	1.69	0.42
8:EA:24:TYR:HA	8:EA:27:GLU:HB2	2.01	0.42
8:EA:297:GLU:O	8:EA:301:GLN:NE2	2.48	0.42
8:EC:6:SER:HB3	8:EC:8:HIS:CD2	2.53	0.42
8:EC:166:LYS:N	8:EC:199:ASP:OD2	2.39	0.42
9:ED:68:LEU:HD12	9:ED:97:ALA:HB2	2.01	0.42
9:ED:315:ALA:HB3	9:ED:351:THR:HG22	2.01	0.42
8:EE:439:SER:HG	9:EF:390:ARG:HH21	1.66	0.42
9:EH:2:ARG:O	9:EH:49:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EI:221:ARG:HG3	17:L:31:VAL:HG12	2.01	0.42
8:EI:381:THR:OG1	8:EI:382:THR:N	2.52	0.42
9:EJ:309:ARG:HG3	9:EJ:426:GLN:HG3	2.01	0.42
9:EL:337:ASN:HB3	9:EL:340:TYR:CD2	2.54	0.42
9:EN:378:PHE:HB3	9:EN:415:MET:SD	2.59	0.42
8:EO:313:MET:HE3	8:EO:435:VAL:HG13	2.01	0.42
15:F:65:HIS:HD2	15:F:143:VAL:HG12	1.84	0.42
8:FA:174:ALA:HB1	8:FA:207:GLU:OE1	2.18	0.42
8:FC:268:PRO:HA	8:FC:380:ASN:HA	2.01	0.42
8:FE:339:ARG:O	8:FE:339:ARG:NE	2.48	0.42
8:FG:171:ILE:HD13	8:FG:204:VAL:HG13	2.01	0.42
9:FH:35:THR:HG22	9:FH:36:TYR:H	1.84	0.42
8:FI:147:SER:OG	8:FI:190:THR:OG1	2.28	0.42
9:FJ:113:VAL:HG11	9:FJ:150:LEU:HD23	2.02	0.42
9:FN:7:LEU:N	9:FN:134:GLN:O	2.49	0.42
9:FN:51:TYR:HB3	9:FN:59:TYR:HB3	2.00	0.42
9:GB:52:ASN:HB2	9:GB:60:VAL:HG23	2.01	0.42
9:GD:73:MET:HB3	9:GD:90:PHE:CE2	2.54	0.42
9:GD:289:LEU:HD21	9:GD:365:ALA:HB3	2.02	0.42
8:GE:326:LYS:HE2	9:GF:208:TYR:HD1	1.84	0.42
9:GF:55:THR:OG1	9:HF:283:ALA:HA	2.19	0.42
8:GG:189:LEU:HD21	8:GG:418:PHE:HD1	1.84	0.42
8:GG:318:LEU:HD13	8:GG:318:LEU:HA	1.92	0.42
8:GG:326:LYS:NZ	9:GH:208:TYR:HB3	2.34	0.42
9:GH:287:PRO:HG3	9:GH:329:GLN:NE2	2.34	0.42
9:GH:371:SER:O	9:GH:422:TYR:OH	2.28	0.42
8:GK:2:ARG:HB3	8:GK:133:GLN:HG3	2.00	0.42
8:GK:79:ARG:HH22	8:GK:94:THR:HG21	1.83	0.42
9:GL:8:GLN:NE2	9:GL:13:GLY:O	2.51	0.42
8:GM:429:GLU:O	8:GM:433:GLU:HG2	2.20	0.42
17:H:263:GLU:N	17:H:263:GLU:OE1	2.52	0.42
9:HB:178:THR:O	9:HB:181:GLU:HB2	2.18	0.42
9:HD:208:TYR:CE1	9:HD:225:LEU:HD21	2.54	0.42
9:HD:257:MET:HE2	9:HD:314:ALA:HB2	2.01	0.42
9:HF:14:ASN:ND2	9:HF:73:MET:HE1	2.34	0.42
9:HF:324:LYS:HD3	8:HG:210:TYR:HD1	1.85	0.42
9:HF:346:PRO:HD3	8:HG:397:LEU:HD23	2.01	0.42
8:HI:147:SER:OG	8:HI:190:THR:OG1	2.23	0.42
8:HI:386:GLU:OE1	8:HI:386:GLU:N	2.52	0.42
8:HK:65:ALA:O	8:HK:91:GLN:HB3	2.19	0.42
8:HK:324:VAL:HG12	8:HK:326:LYS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HL:385:PHE:O	9:HL:388:MET:HB2	2.19	0.42
8:HM:252:LEU:HA	8:HM:255:PHE:HD2	1.83	0.42
9:HN:371:SER:OG	9:HN:372:THR:N	2.52	0.42
9:HN:377:LEU:HA	9:HN:380:ARG:NE	2.34	0.42
8:HO:214:ARG:HH11	8:HO:220:GLU:HA	1.84	0.42
8:HO:401:LYS:HD3	8:HO:401:LYS:HA	1.78	0.42
8:IA:136:LEU:HD23	8:IA:136:LEU:H	1.83	0.42
9:IB:326:VAL:O	9:IB:330:MET:HB2	2.19	0.42
8:IC:326:LYS:HG3	9:ID:208:TYR:CD2	2.54	0.42
9:ID:1:MET:N	9:ID:129:CYS:HB3	2.34	0.42
9:IF:173:PRO:HD3	9:IF:380:ARG:NH1	2.34	0.42
9:IH:324:LYS:HG2	8:II:210:TYR:CE2	2.54	0.42
9:IJ:323:MET:SD	9:IJ:353:VAL:HG11	2.59	0.42
8:IK:3:GLU:H	8:IK:133:GLN:CG	2.33	0.42
8:IK:5:ILE:HG22	8:IK:7:ILE:HD11	2.01	0.42
9:IL:252:LYS:HE2	8:IM:98:ASP:OD2	2.18	0.42
8:IM:259:LEU:HD11	8:IM:316:CYS:CB	2.49	0.42
8:IO:287:SER:OG	8:IO:290:GLU:OE2	2.37	0.42
19:J1:251:PHE:HE1	8:LC:439:SER:HB3	1.83	0.42
19:J3:62:LEU:HD11	8:NG:76:ASP:OD1	2.19	0.42
9:JB:86:ARG:HG2	9:JB:88:ASP:H	1.85	0.42
9:JB:271:ALA:HB1	9:JB:289:LEU:HD22	2.00	0.42
8:JC:246:GLY:HA2	8:JC:357:TYR:CD1	2.54	0.42
9:JD:50:TYR:HE2	9:JD:241:ARG:HD3	1.84	0.42
9:JF:25:SER:HB3	9:JF:30:ILE:HG22	2.02	0.42
8:JI:402:ARG:HD2	8:JI:402:ARG:HA	1.85	0.42
9:JJ:36:TYR:CZ	9:JJ:44:LEU:HD22	2.54	0.42
9:JJ:120:VAL:O	9:JJ:124:ALA:N	2.52	0.42
9:JJ:170:VAL:N	9:JJ:202:ILE:O	2.37	0.42
9:JL:215:LEU:HD11	13:K3:301:LEU:HD11	2.01	0.42
9:JL:322:SER:OG	9:JL:323:MET:N	2.53	0.42
9:JN:327:ASP:OD2	8:JO:177:VAL:HG21	2.19	0.42
8:JQ:2:ARG:H	8:JQ:2:ARG:HG3	1.62	0.42
8:JQ:188:ILE:O	8:JQ:191:THR:OG1	2.33	0.42
8:KA:388:TRP:CD1	8:KA:388:TRP:H	2.37	0.42
9:KD:323:MET:SD	8:KE:223:THR:HA	2.59	0.42
9:KF:7:LEU:HD23	9:KF:7:LEU:HA	1.83	0.42
8:KG:125:LEU:HD23	8:KG:125:LEU:HA	1.87	0.42
8:KG:166:LYS:N	8:KG:199:ASP:OD2	2.34	0.42
8:KG:224:TYR:OH	50:KG:501:GTP:H2'	2.18	0.42
9:KH:213:ARG:HH12	9:KH:297:LYS:HB3	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KI:71:GLU:OE2	8:KI:74:VAL:HG23	2.19	0.42
9:KJ:170:VAL:HG21	9:KJ:377:LEU:HD21	2.01	0.42
9:KN:324:LYS:HB2	8:KO:222:PRO:HD2	2.00	0.42
8:KO:312:TYR:HE2	8:KO:341:ILE:HG13	1.83	0.42
17:L:249:LYS:O	17:L:253:VAL:HG23	2.19	0.42
9:LB:146:GLY:O	9:LB:149:THR:OG1	2.37	0.42
9:LB:225:LEU:O	9:LB:229:VAL:HG23	2.19	0.42
8:LE:207:GLU:HA	8:LE:210:TYR:CD2	2.54	0.42
8:LE:313:MET:HG2	8:LE:380:ASN:O	2.18	0.42
9:LF:278:SER:O	9:LF:282:ARG:HB2	2.19	0.42
8:LG:139:HIS:NE2	8:LG:168:GLU:OE2	2.50	0.42
8:LG:166:LYS:N	8:LG:199:ASP:OD2	2.42	0.42
8:LK:350:GLY:HA2	9:LL:179:VAL:HG13	2.01	0.42
9:LL:406:MET:SD	9:LL:406:MET:N	2.92	0.42
9:LL:418:LEU:HD12	9:LL:418:LEU:HA	1.81	0.42
8:LO:297:GLU:O	8:LO:301:GLN:NE2	2.39	0.42
17:M:13:GLU:O	17:M:15:HIS:N	2.53	0.42
9:MD:293:MET:HG2	9:MD:367:PHE:HB2	2.00	0.42
9:MD:323:MET:HE1	8:ME:224:TYR:CE2	2.53	0.42
8:ME:223:THR:HG22	8:ME:224:TYR:H	1.83	0.42
8:MG:263:PRO:HG3	9:MH:396:HIS:CD2	2.54	0.42
9:ML:44:LEU:O	9:ML:44:LEU:HD23	2.18	0.42
9:MP:268:PRO:O	9:MP:300:MET:HE3	2.19	0.42
9:NB:72:THR:O	9:NB:75:SER:OG	2.29	0.42
9:NB:407:GLU:HA	9:NB:410:GLU:HG2	2.00	0.42
9:ND:253:LEU:O	9:ND:257:MET:HB2	2.20	0.42
8:NE:2:ARG:HA	8:NE:133:GLN:NE2	2.34	0.42
8:NG:209:ILE:HG12	8:NG:302:MET:HB3	2.02	0.42
8:NK:229:ARG:HE	8:NK:367:ASP:H	1.65	0.42
8:NM:13:GLY:O	8:NM:17:GLY:N	2.46	0.42
8:NM:141:PHE:HB2	8:NM:173:PRO:HD3	2.02	0.42
8:NO:23:LEU:HA	8:NO:26:LEU:HG	2.00	0.42
9:NP:103:LYS:HB3	9:NP:103:LYS:HE2	1.81	0.42
9:OD:213:ARG:HH11	36:Y4:169:LEU:HD11	1.85	0.42
9:OD:306:ARG:NH1	9:OD:307:HIS:HA	2.35	0.42
9:OD:308:GLY:HA3	9:OD:372:THR:HB	2.02	0.42
9:OF:25:SER:HB3	9:OF:30:ILE:HB	2.01	0.42
9:OH:179:VAL:O	9:OH:388:MET:HE1	2.19	0.42
8:OI:166:LYS:HG2	8:OI:199:ASP:OD2	2.19	0.42
9:OL:324:LYS:H	9:OL:324:LYS:HG2	1.54	0.42
8:OM:338:LYS:HD2	36:Y5:217:GLY:HA3	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:ON:12:CYS:SG	9:ON:138:SER:HB3	2.60	0.42
8:OO:21:TRP:CE3	8:OO:63:PRO:HB3	2.54	0.42
9:OP:407:GLU:HA	9:OP:410:GLU:HG3	2.01	0.42
27:P4:161:HIS:HD2	27:P4:163:ARG:HB3	1.84	0.42
9:PB:313:VAL:HG13	9:PB:367:PHE:HE1	1.85	0.42
8:PC:210:TYR:HE1	8:PC:227:LEU:HD11	1.84	0.42
8:PE:191:THR:HG21	8:PE:425:LEU:HD11	2.01	0.42
8:PG:102:ASN:ND2	8:PG:105:ARG:HG3	2.34	0.42
8:PG:318:LEU:HA	8:PG:318:LEU:HD23	1.77	0.42
9:PH:232:THR:HG21	9:PH:268:PRO:HB2	2.01	0.42
9:PH:238:THR:HA	9:PH:241:ARG:HE	1.83	0.42
9:PH:263:LEU:HD22	9:PH:422:TYR:CD2	2.54	0.42
8:PI:75:VAL:HG12	8:PI:79:ARG:HE	1.83	0.42
8:PI:142:GLY:HA2	8:PI:183:GLU:HG2	2.01	0.42
9:PL:73:MET:SD	9:PL:92:PHE:HB3	2.59	0.42
9:PL:139:LEU:HD12	9:PL:170:VAL:HA	2.00	0.42
9:PL:238:THR:HA	9:PL:241:ARG:HE	1.84	0.42
8:PM:217:LEU:HD21	8:PM:368:LEU:HD22	2.01	0.42
9:PN:173:PRO:HD3	9:PN:380:ARG:CZ	2.49	0.42
9:PN:376:GLU:OE1	9:PN:376:GLU:N	2.52	0.42
8:PO:49:PHE:O	8:PO:53:PHE:N	2.41	0.42
8:PO:261:PRO:HG3	8:PO:313:MET:HE2	2.01	0.42
9:QB:414:ASN:OD1	9:QB:415:MET:N	2.51	0.42
9:QD:31:ASP:HB3	9:QD:37:HIS:CD2	2.54	0.42
8:QE:419:SER:O	8:QE:423:GLU:HG2	2.19	0.42
8:QG:239:THR:HB	8:QG:243:ARG:NH1	2.34	0.42
8:QI:397:LEU:HD13	8:QI:397:LEU:HA	1.87	0.42
9:QL:295:ASP:OD1	9:QL:296:ALA:N	2.52	0.42
8:QM:152:LEU:O	8:QM:156:ARG:HG2	2.19	0.42
8:QM:229:ARG:HH11	8:QM:229:ARG:HA	1.84	0.42
8:RC:52:PHE:CE2	8:RC:243:ARG:HD3	2.54	0.42
8:RG:125:LEU:HD23	8:RG:125:LEU:HA	1.87	0.42
8:RI:125:LEU:HD23	8:RI:125:LEU:HA	1.85	0.42
8:RM:211:ASP:HA	8:RM:214:ARG:HD2	2.01	0.42
8:RO:111:GLY:O	8:RO:115:VAL:HG23	2.19	0.42
8:RO:408:TYR:HB3	8:RO:413:MET:CE	2.48	0.42
29:S:303:ARG:NH1	29:S:304:GLN:OE1	2.52	0.42
12:S0:164:LEU:HD23	12:S0:164:LEU:HA	1.85	0.42
12:S2:164:LEU:HA	12:S2:254:LEU:HD21	2.00	0.42
12:S3:223:VAL:O	12:S3:227:LEU:HG	2.18	0.42
12:S4:183:ARG:HG3	12:S4:487:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S5:199:LEU:HG	12:S5:219:LEU:HD22	2.00	0.42
12:S6:288:GLU:OE2	12:S6:289:ARG:HB2	2.19	0.42
12:S8:163:GLU:OE1	12:S8:308:VAL:HA	2.19	0.42
12:S9:174:LEU:HD21	12:S9:244:LEU:HB2	2.00	0.42
8:SA:263:PRO:HG3	9:SB:396:HIS:CD2	2.54	0.42
9:SD:2:ARG:HH12	8:SE:73:THR:HB	1.84	0.42
8:SE:269:LEU:HD12	8:SE:303:VAL:HB	2.01	0.42
8:SE:346:TRP:CD1	9:SF:387:ALA:O	2.69	0.42
8:SG:292:THR:HG21	8:SG:331:ALA:HB1	2.00	0.42
9:SH:7:LEU:HD11	9:SH:133:PHE:HB3	2.01	0.42
9:SH:86:ARG:NE	9:SH:86:ARG:HA	2.33	0.42
8:SI:5:ILE:HD11	8:SI:129:CYS:SG	2.59	0.42
9:SJ:299:MET:HA	9:SJ:299:MET:HE3	2.01	0.42
9:SJ:321:MET:N	9:SJ:321:MET:SD	2.93	0.42
8:SM:136:LEU:HD13	8:SM:138:PHE:CZ	2.54	0.42
8:SM:317:MET:HA	8:SM:317:MET:HE2	2.01	0.42
9:SN:42:LEU:HD23	9:SN:356:ILE:HD11	2.01	0.42
14:T4:159:ARG:O	14:T4:162:ARG:NE	2.43	0.42
8:TC:132:LEU:O	8:TC:164:LYS:NZ	2.47	0.42
8:TE:23:LEU:HA	8:TE:26:LEU:HG	2.01	0.42
8:TE:91:GLN:HE21	8:TE:125:LEU:HD11	1.84	0.42
8:TE:302:MET:HE3	8:TE:302:MET:HB3	1.90	0.42
8:TG:28:HIS:CE1	8:TG:49:PHE:HA	2.54	0.42
8:TI:224:TYR:CD1	50:TI:501:GTP:C6	3.07	0.42
8:TK:168:GLU:O	8:TK:202:PHE:N	2.52	0.42
25:U:244:ARG:HD2	25:U:348:ASP:OD1	2.19	0.42
25:U:384:TYR:OH	25:U:388:GLY:O	2.34	0.42
30:U0:316:ARG:HE	30:U0:316:ARG:HB2	1.73	0.42
30:U1:364:ILE:HD13	30:U1:364:ILE:HA	1.87	0.42
30:U2:218:GLU:HB2	30:U2:335:GLN:HE21	1.84	0.42
30:U2:241:ARG:HH22	30:U6:79:LEU:HG	1.83	0.42
30:U2:410:ASP:OD1	30:U2:410:ASP:N	2.44	0.42
30:U3:159:GLU:OE1	30:U3:162:ARG:NH1	2.51	0.42
30:U6:127:LYS:HZ3	30:U7:426:THR:HB	1.84	0.42
30:U8:158:TYR:O	30:U8:162:ARG:HG2	2.19	0.42
30:U8:211:VAL:HG22	30:U8:343:PHE:HD1	1.85	0.42
30:U8:227:ASP:O	30:U8:231:LYS:HG3	2.19	0.42
30:U9:396:LEU:O	30:U9:400:THR:HG23	2.19	0.42
9:UD:249:ASP:H	9:UD:252:LYS:HB2	1.84	0.42
8:UG:154:MET:HE3	8:UG:158:SER:HB2	2.01	0.42
8:UG:217:LEU:HD21	8:UG:275:VAL:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UG:302:MET:HA	8:UG:302:MET:HE3	2.00	0.42
9:UH:245:GLN:NE2	8:UI:224:TYR:H	2.18	0.42
8:UM:352:LYS:HZ3	9:UN:179:VAL:N	2.17	0.42
25:V:28:SER:HB3	25:V:45:MET:HE1	2.02	0.42
25:V:163:TYR:OH	25:V:175:THR:O	2.34	0.42
30:V2:397:ALA:O	30:V2:400:THR:OG1	2.28	0.42
30:V4:234:LYS:HA	30:V4:234:LYS:HD3	1.79	0.42
30:V5:305:ARG:O	30:V5:309:ASN:ND2	2.41	0.42
30:V5:311:ARG:O	30:V5:315:ILE:HG23	2.19	0.42
8:VC:215:ARG:NH1	8:VC:216:ASN:OD1	2.51	0.42
9:VH:21:TRP:CE3	9:VH:24:ILE:HD11	2.54	0.42
9:VH:337:ASN:HB3	9:VH:340:TYR:CD2	2.54	0.42
8:VI:152:LEU:HA	8:VI:155:GLU:HG3	1.99	0.42
8:VI:261:PRO:HB3	9:VJ:394:PHE:CE2	2.54	0.42
8:VK:33:ASP:OD1	8:VK:34:GLY:N	2.51	0.42
8:VO:105:ARG:HH21	8:VO:110:ILE:HG13	1.83	0.42
31:W:439:LYS:HE2	31:W:439:LYS:HB3	1.87	0.42
8:WE:52:PHE:CE2	8:WE:243:ARG:HD3	2.53	0.42
8:WG:352:LYS:HA	8:WG:352:LYS:HD2	1.68	0.42
9:WH:326:VAL:O	9:WH:330:MET:HG3	2.19	0.42
8:WI:123:ARG:NH2	8:WI:160:ASP:OD1	2.52	0.42
8:WK:231:ILE:O	8:WK:235:VAL:HG23	2.19	0.42
9:WL:324:LYS:NZ	8:WM:220:GLU:O	2.42	0.42
8:WM:112:LYS:HA	8:WM:115:VAL:HG22	2.01	0.42
8:WM:236:SER:OG	8:WM:243:ARG:NH2	2.50	0.42
8:WM:241:SER:OG	8:WM:250:VAL:N	2.45	0.42
9:WN:122:LYS:NZ	37:YG:197:TYR:HA	2.34	0.42
8:WO:49:PHE:HB2	8:WO:53:PHE:HD2	1.84	0.42
9:WP:329:GLN:HE22	9:WP:332:ASN:HD22	1.67	0.42
35:XB:115:LYS:HE2	35:XB:115:LYS:HB3	1.80	0.42
35:XF:72:LYS:HG3	35:XF:149:ILE:O	2.18	0.42
35:XF:179:ALA:HA	35:XF:182:LYS:HB2	2.00	0.42
31:Y:542:TYR:CE2	31:Y:595:ILE:HG13	2.54	0.42
36:Y0:29:LYS:HG2	36:Y0:30:TYR:H	1.84	0.42
37:YC:89:TYR:CZ	37:YC:122:GLY:HA2	2.53	0.42
31:Z:97:PHE:HB2	31:Z:195:PRO:HG2	2.00	0.42
39:b:447:GLU:O	39:b:450:LEU:HD12	2.18	0.42
41:b2:326:GLN:CD	41:b2:330:ASN:HD21	2.27	0.42
41:b3:118:ARG:HD3	41:b3:118:ARG:HA	1.81	0.42
39:c:372:LEU:HA	39:c:375:LEU:CD1	2.49	0.42
42:e:43:LEU:HD21	42:e:610:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:e:489:ASP:HB2	42:e:496:ASN:HD21	1.84	0.42
42:g:551:MET:HA	42:g:561:VAL:O	2.18	0.42
44:h4:67:ARG:O	44:h4:71:LEU:HB2	2.19	0.42
46:i2:1339:CYS:HB2	46:i2:1342:GLU:HB2	2.01	0.42
46:i4:1419:ARG:HE	45:n:35:HIS:HB2	1.83	0.42
43:j:193:ARG:NH2	43:j:248:LYS:HA	2.34	0.42
1:0:36:ARG:HA	1:0:36:ARG:HD2	1.69	0.42
2:1:824:HIS:CD2	2:1:828:GLU:HB2	2.53	0.42
3:3:191:LYS:HD3	3:3:194:LYS:HZ3	1.83	0.42
3:3:445:GLU:HB3	3:3:448:ARG:HH22	1.84	0.42
4:5:74:LEU:HD11	4:5:79:LEU:HD21	2.02	0.42
1:7:47:LEU:HD12	1:7:51:TRP:CZ3	2.54	0.42
5:8:47:THR:O	5:8:49:GLN:N	2.52	0.42
9:AB:170:VAL:HG11	9:AB:377:LEU:HD21	2.00	0.42
9:AD:275:SER:O	9:AD:279:GLN:HG2	2.19	0.42
9:AD:295:ASP:OD2	9:AD:296:ALA:N	2.53	0.42
8:AE:372:GLN:OE1	25:U:89:HIS:CD2	2.71	0.42
8:AG:101:ASN:HD22	8:AG:144:GLY:H	1.66	0.42
8:AG:333:ALA:O	8:AG:337:THR:HG23	2.19	0.42
9:AH:116:VAL:O	9:AH:120:VAL:HG13	2.19	0.42
9:AH:163:ILE:HD11	9:AH:251:ARG:CZ	2.49	0.42
8:AK:242:LEU:HD23	8:AK:242:LEU:HA	1.92	0.42
8:AM:396:ASP:CG	8:AM:422:ARG:HE	2.26	0.42
9:AN:1:MET:HB3	9:AN:2:ARG:H	1.59	0.42
8:AO:75:VAL:HG12	8:AO:79:ARG:HE	1.85	0.42
9:AP:16:ILE:HG23	9:AP:233:MET:HE1	2.01	0.42
11:B2:335:GLN:O	11:B2:339:ILE:HG13	2.18	0.42
11:B3:183:LEU:HD23	11:B3:183:LEU:HA	1.87	0.42
11:B3:345:LEU:HD12	11:B3:345:LEU:HA	1.84	0.42
11:B5:294:GLN:HE22	11:B5:298:ARG:NH1	2.17	0.42
8:BC:56:THR:HG22	8:BC:58:ALA:H	1.85	0.42
8:BC:275:VAL:O	8:BC:275:VAL:HG23	2.19	0.42
9:BF:382:SER:O	9:BF:386:THR:OG1	2.27	0.42
9:BH:87:PRO:HB3	31:X:304:LEU:HD12	2.02	0.42
8:BI:52:PHE:CZ	8:BI:239:THR:HG21	2.54	0.42
9:BJ:216:LYS:HD3	9:BJ:216:LYS:HA	1.85	0.42
9:BJ:250:LEU:HD23	9:BJ:250:LEU:HA	1.85	0.42
8:BK:274:PRO:HG3	8:BK:371:VAL:HG11	2.01	0.42
8:BK:311:LYS:H	8:BK:382:THR:CG2	2.32	0.42
9:BL:178:THR:O	9:BL:181:GLU:HB2	2.18	0.42
8:BM:324:VAL:HG12	8:BM:326:LYS:H	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BM:352:LYS:HD2	8:BM:352:LYS:HA	1.89	0.42
8:BO:326:LYS:HE3	9:BP:220:PRO:HD2	2.01	0.42
8:BO:326:LYS:HZ1	9:BP:218:THR:HA	1.83	0.42
9:BP:221:THR:N	9:BP:224:ASP:OD2	2.53	0.42
10:C:475:ASP:O	10:C:482:ARG:NH2	2.53	0.42
12:C3:254:LEU:HD23	12:C3:254:LEU:HA	1.87	0.42
9:CH:165:ASN:ND2	9:CH:198:GLU:OE2	2.52	0.42
8:CI:201:ALA:O	8:CI:268:PRO:HD2	2.18	0.42
8:CI:280:LYS:HA	8:CI:280:LYS:HD2	1.82	0.42
8:CK:203:MET:HE1	8:CK:267:PHE:CD2	2.54	0.42
8:CM:147:SER:HB3	8:CM:190:THR:OG1	2.19	0.42
8:CM:250:VAL:HG13	8:CM:254:GLU:HB2	2.00	0.42
8:CQ:219:ILE:HD12	8:CQ:219:ILE:HA	1.85	0.42
14:D1:156:LEU:CD2	28:Q1:41:PRO:HD2	2.48	0.42
14:D1:179:GLU:OE2	14:D1:437:TYR:OH	2.27	0.42
14:D3:121:ILE:HD11	14:D3:212:GLU:HA	2.01	0.42
14:D3:230:ARG:HH22	8:LK:40:LYS:N	2.18	0.42
14:D3:294:ARG:HD3	14:D3:294:ARG:HA	1.73	0.42
14:D4:74:SER:O	14:D4:78:ARG:HG3	2.20	0.42
9:DB:212:PHE:C	9:DB:213:ARG:HE	2.28	0.42
8:DC:259:LEU:HD12	8:DC:259:LEU:HA	1.89	0.42
8:DE:137:ILE:HD13	8:DE:137:ILE:HA	1.92	0.42
9:DH:123:GLU:O	9:DH:126:SER:OG	2.32	0.42
8:DI:2:ARG:H	8:DI:2:ARG:HG3	1.55	0.42
8:DI:227:LEU:O	8:DI:231:ILE:HG12	2.18	0.42
9:DJ:236:VAL:HG22	9:DJ:368:ILE:HD11	2.01	0.42
8:DK:254:GLU:O	8:DK:258:ASN:ND2	2.29	0.42
8:DQ:9:VAL:HB	8:DQ:139:HIS:HB3	2.01	0.42
8:DQ:318:LEU:HD23	8:DQ:318:LEU:HA	1.92	0.42
9:EB:114:ASP:OD1	9:EB:115:SER:N	2.52	0.42
9:EB:362:LYS:O	9:EB:363:MET:HE2	2.20	0.42
9:ED:118:ASP:OD1	9:ED:121:ARG:NH2	2.45	0.42
9:ED:257:MET:HA	9:ED:257:MET:HE3	2.01	0.42
9:EF:402:GLY:C	9:EF:403:MET:HE2	2.44	0.42
8:EG:36:MET:HA	8:EG:36:MET:HE3	2.01	0.42
8:EG:221:ARG:HE	17:K:31:VAL:HG12	1.85	0.42
9:EH:276:ARG:NH2	25:V:384:TYR:HA	2.34	0.42
9:EJ:197:ASP:N	9:EJ:197:ASP:OD1	2.52	0.42
8:EK:282:TYR:CZ	17:M:9:LEU:HD12	2.55	0.42
9:EL:50:TYR:O	9:EL:62:ARG:HB2	2.19	0.42
9:EN:184:ASN:OD1	9:EN:398:TYR:OH	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FB:42:LEU:HD23	9:FB:356:ILE:HD11	2.00	0.42
8:FC:225:THR:O	8:FC:229:ARG:HG2	2.19	0.42
8:FE:20:CYS:SG	8:FE:21:TRP:N	2.93	0.42
8:FG:116:ASP:N	8:FG:116:ASP:OD1	2.49	0.42
9:FH:246:LEU:H	9:FH:353:VAL:HB	1.85	0.42
9:FH:407:GLU:HA	9:FH:410:GLU:HG2	2.01	0.42
8:FI:51:THR:HG21	8:FI:243:ARG:HG2	2.02	0.42
8:FM:346:TRP:CD1	9:FN:391:ARG:HG3	2.54	0.42
9:FN:395:LEU:O	9:FN:399:THR:HG23	2.19	0.42
16:G:84:GLN:NE2	8:GK:242:LEU:O	2.51	0.42
8:GA:2:ARG:HB3	8:GA:242:LEU:HD23	2.02	0.42
9:GB:344:TRP:CD1	8:GC:401:LYS:HD2	2.54	0.42
9:GD:118:ASP:O	9:GD:122:LYS:HG2	2.19	0.42
8:GE:180:ALA:HB3	8:GE:183:GLU:HB3	2.01	0.42
9:GF:285:THR:HB	9:GF:287:PRO:HD2	2.01	0.42
9:GN:189:VAL:O	9:GN:193:VAL:HG13	2.19	0.42
8:GO:15:GLN:HB3	8:GO:228:ASN:HD21	1.84	0.42
8:HA:214:ARG:O	8:HA:214:ARG:NE	2.52	0.42
9:HD:139:LEU:HA	9:HD:145:SER:HB2	2.01	0.42
9:HD:148:GLY:O	9:HD:152:ILE:HG13	2.18	0.42
9:HD:257:MET:CE	9:HD:314:ALA:HB2	2.49	0.42
9:HH:263:LEU:HD22	9:HH:422:TYR:HD2	1.84	0.42
17:I:307:ALA:O	17:I:311:GLU:HB2	2.19	0.42
18:I1:106:ARG:HB3	18:I1:108:LYS:HZ2	1.83	0.42
8:IA:151:SER:HA	8:IA:193:THR:HG21	2.01	0.42
9:IB:247:ASN:ND2	8:IC:71:GLU:OE2	2.52	0.42
9:IB:313:VAL:HG13	9:IB:367:PHE:CE2	2.54	0.42
9:ID:73:MET:O	9:ID:77:ARG:HG2	2.19	0.42
9:ID:212:PHE:HB3	9:ID:213:ARG:CZ	2.49	0.42
9:ID:345:ILE:HA	8:IE:398:MET:HE1	2.02	0.42
8:IE:172:TYR:OH	8:IE:387:ALA:HB1	2.18	0.42
9:IF:73:MET:HG3	9:IF:92:PHE:CD2	2.54	0.42
8:IG:11:GLN:O	8:IG:15:GLN:HG3	2.19	0.42
8:IG:269:LEU:HD22	8:IG:303:VAL:HG21	2.01	0.42
9:IJ:63:ALA:O	9:IJ:89:ASN:ND2	2.52	0.42
8:IK:111:GLY:O	8:IK:115:VAL:HG13	2.20	0.42
8:IM:211:ASP:OD2	8:IM:215:ARG:NH1	2.46	0.42
9:IN:51:TYR:O	9:IN:62:ARG:NH2	2.51	0.42
9:IN:356:ILE:HA	9:IN:357:PRO:HD3	1.89	0.42
8:IO:152:LEU:HD12	8:IO:153:LEU:N	2.34	0.42
9:IP:310:TYR:CD1	9:IP:371:SER:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J2:100:ILE:HD12	19:J2:100:ILE:HA	1.79	0.42
19:J4:231:LYS:HD3	19:J4:231:LYS:N	2.35	0.42
9:JD:21:TRP:CE3	9:JD:24:ILE:HD11	2.53	0.42
8:JE:290:GLU:H	8:JE:290:GLU:HG2	1.51	0.42
8:JE:346:TRP:HB3	9:JF:391:ARG:HD2	2.01	0.42
9:JF:284:LEU:HD23	9:JF:284:LEU:HA	1.89	0.42
9:JF:401:GLU:HB2	9:JF:403:MET:HE1	2.01	0.42
8:JG:88:HIS:NE2	8:KE:284:GLU:OE2	2.52	0.42
9:JH:318:ARG:HD3	9:JH:358:PRO:HD3	2.01	0.42
8:JI:231:ILE:O	8:JI:235:VAL:HG22	2.20	0.42
9:JJ:207:LEU:HD23	9:JJ:207:LEU:HA	1.82	0.42
8:JK:117:LEU:HD12	8:JK:117:LEU:HA	1.86	0.42
9:JN:34:GLY:O	9:JN:58:LYS:HA	2.19	0.42
8:JO:52:PHE:HZ	8:JO:239:THR:HG21	1.84	0.42
8:JO:438:ASP:OD2	8:JO:440:VAL:HG23	2.19	0.42
9:JP:32:PRO:HG3	9:JP:81:PHE:HE1	1.84	0.42
8:KA:10:GLY:O	8:KA:14:VAL:HG23	2.18	0.42
8:KA:117:LEU:HD12	8:KA:117:LEU:H	1.84	0.42
8:KE:125:LEU:HD23	8:KE:125:LEU:HA	1.85	0.42
8:KE:239:THR:HB	8:KE:243:ARG:NH1	2.34	0.42
8:KG:70:LEU:HB3	8:KG:98:ASP:HA	2.02	0.42
8:KG:153:LEU:O	8:KG:157:LEU:N	2.45	0.42
9:KJ:148:GLY:HA2	9:KJ:151:LEU:HD12	2.01	0.42
8:KK:167:LEU:HD11	8:KK:256:GLN:HE21	1.84	0.42
9:KL:285:THR:HG22	9:KL:287:PRO:HD2	2.02	0.42
9:KN:324:LYS:HB2	8:KO:210:TYR:CE1	2.52	0.42
8:KO:167:LEU:HD12	8:KO:202:PHE:HZ	1.84	0.42
9:KP:325:GLU:OE1	9:KP:325:GLU:N	2.52	0.42
17:L:225:VAL:HG11	17:L:240:VAL:HG22	2.01	0.42
17:L:276:TYR:CE2	17:L:290:PRO:HD3	2.54	0.42
8:LA:105:ARG:HG3	8:LA:411:GLU:HG3	2.01	0.42
8:LC:312:TYR:CE2	8:LC:341:ILE:HG23	2.54	0.42
8:LE:6:SER:HB3	8:LE:8:HIS:NE2	2.35	0.42
8:LE:185:TYR:O	8:LE:189:LEU:HG	2.18	0.42
9:LF:372:THR:O	9:LF:375:GLN:HG2	2.20	0.42
9:LH:383:GLU:OE1	41:b3:484:TRP:HH2	2.02	0.42
9:LH:428:ALA:HB1	8:LI:401:LYS:HE3	2.00	0.42
8:LI:320:ARG:HD3	8:LI:360:PRO:HG3	2.01	0.42
9:LL:404:ASP:N	9:LL:404:ASP:OD1	2.51	0.42
8:LO:125:LEU:HD23	8:LO:125:LEU:HA	1.86	0.42
8:MA:54:SER:HB3	8:MA:64:ARG:CZ	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MI:296:PHE:CE2	8:MI:335:ILE:HG12	2.54	0.42
8:NA:201:ALA:HB1	8:NA:203:MET:HE1	2.00	0.42
8:NA:287:SER:H	8:NA:290:GLU:CD	2.28	0.42
9:NB:372:THR:HA	9:NB:422:TYR:CE1	2.48	0.42
9:NF:256:ASN:HD22	8:NG:181:VAL:H	1.66	0.42
8:NG:12:ALA:N	50:NG:501:GTP:O2A	2.46	0.42
8:NG:103:TYR:CD2	8:NG:189:LEU:HD13	2.54	0.42
9:NJ:318:ARG:HG2	9:NJ:358:PRO:CD	2.49	0.42
9:NJ:390:ARG:HH21	9:NJ:391:ARG:HE	1.67	0.42
8:NK:70:LEU:HD23	8:NK:70:LEU:HA	1.88	0.42
8:NK:193:THR:O	8:NK:197:HIS:HB2	2.20	0.42
9:NL:269:GLY:HA2	9:NL:300:MET:HE3	2.01	0.42
8:NO:332:ILE:HD12	8:NO:351:PHE:HD2	1.83	0.42
25:O5:276:ARG:HG2	25:O5:290:LEU:HD23	2.01	0.42
17:O7:261:LEU:HD21	30:W7:135:GLN:HE22	1.84	0.42
17:O8:56:LEU:O	27:P3:157:LEU:HG	2.18	0.42
8:OA:213:CYS:HA	8:OA:217:LEU:HD23	2.01	0.42
8:OC:172:TYR:CD2	8:OC:205:ASP:HB3	2.54	0.42
9:OD:285:THR:OG1	9:OD:287:PRO:HD2	2.19	0.42
9:OH:291:GLN:HG2	36:Y4:87:TYR:CG	2.54	0.42
9:OH:337:ASN:ND2	36:Y4:89:ILE:HD13	2.24	0.42
8:OK:107:HIS:HB3	8:OK:108:TYR:CE2	2.54	0.42
8:OK:125:LEU:HD23	8:OK:125:LEU:HA	1.81	0.42
9:ON:60:VAL:HG11	9:ON:86:ARG:HH21	1.83	0.42
27:P3:124:TYR:CE1	11:R1:26:THR:HA	2.54	0.42
8:PC:368:LEU:HD23	8:PC:368:LEU:HA	1.76	0.42
8:PE:60:LYS:HA	8:PE:60:LYS:HD3	1.77	0.42
8:PE:111:GLY:O	8:PE:115:VAL:HG23	2.19	0.42
8:PE:234:ILE:O	8:PE:238:ILE:HG12	2.19	0.42
9:PF:310:TYR:CD1	9:PF:371:SER:HB2	2.54	0.42
8:PK:3:GLU:O	8:PK:133:GLN:N	2.46	0.42
8:PM:188:ILE:O	8:PM:191:THR:OG1	2.37	0.42
8:PM:294:ALA:O	8:PM:300:ASN:ND2	2.48	0.42
8:PM:304:LYS:HA	8:PM:304:LYS:HD2	1.91	0.42
8:PM:425:LEU:O	8:PM:429:GLU:HG2	2.20	0.42
28:Q2:90:ALA:HB2	12:S6:159:GLU:OE2	2.19	0.42
28:Q2:170:LEU:HD23	28:Q2:170:LEU:HA	1.86	0.42
28:Q4:22:PHE:CZ	12:S1:438:LEU:HG	2.53	0.42
28:Q5:63:TRP:CD1	28:Q5:63:TRP:N	2.87	0.42
8:QC:204:VAL:HG13	8:QC:302:MET:HB3	2.01	0.42
9:QD:299:MET:HE2	9:QD:299:MET:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QD:329:GLN:O	9:QD:333:VAL:HG22	2.20	0.42
9:QF:139:LEU:HD12	9:QF:170:VAL:HA	2.01	0.42
8:QK:229:ARG:HH11	8:QK:229:ARG:HA	1.85	0.42
8:QM:89:PRO:HD2	8:RM:280:LYS:HZ1	1.84	0.42
8:QM:262:TYR:HD2	8:QM:265:ILE:HD12	1.83	0.42
11:R1:407:GLN:OE1	11:R1:407:GLN:N	2.47	0.42
11:R2:162:LEU:O	11:R2:166:GLN:HG3	2.19	0.42
11:R3:120:ARG:NH2	11:R3:131:ASP:OD2	2.52	0.42
11:R4:275:PHE:CD2	11:R4:380:LYS:HE2	2.54	0.42
11:R4:392:ASP:HB3	12:S9:341:ASN:HD22	1.82	0.42
9:RF:344:TRP:H	9:RF:344:TRP:CD1	2.36	0.42
9:RF:362:LYS:HE3	9:RF:363:MET:HE3	2.02	0.42
9:RF:406:MET:HA	9:RF:406:MET:HE2	2.02	0.42
8:RK:7:ILE:HB	8:RK:137:ILE:HG23	2.00	0.42
9:RL:64:VAL:HG21	9:RL:120:VAL:HG12	2.01	0.42
8:RM:168:GLU:O	8:RM:201:ALA:HA	2.19	0.42
9:RN:1:MET:SD	9:RN:2:ARG:N	2.92	0.42
12:S1:270:LYS:HA	12:S1:273:HIS:CE1	2.54	0.42
12:S1:472:LYS:HB2	12:S1:476:MET:HE1	2.00	0.42
12:S5:50:TRP:HD1	12:S5:51:ARG:N	2.16	0.42
12:S7:93:ARG:HE	12:S7:93:ARG:HB3	1.62	0.42
12:S7:181:LEU:HA	12:S7:181:LEU:HD12	1.79	0.42
12:S7:400:LEU:HD12	12:S7:400:LEU:HA	1.85	0.42
8:SC:320:ARG:HE	8:SC:360:PRO:HG3	1.84	0.42
9:SD:172:SER:OG	9:SD:205:GLU:OE1	2.32	0.42
8:SE:125:LEU:HD23	8:SE:125:LEU:HA	1.88	0.42
9:SF:11:GLN:HA	9:SF:72:THR:HG21	2.00	0.42
9:SF:22:GLU:OE1	9:SF:23:VAL:HG13	2.19	0.42
8:SI:169:PHE:CZ	8:SI:234:ILE:HD11	2.53	0.42
8:SI:227:LEU:O	8:SI:231:ILE:HG12	2.19	0.42
9:SL:267:MET:HE1	9:SL:367:PHE:HE2	1.84	0.42
9:SL:376:GLU:O	9:SL:380:ARG:NH1	2.53	0.42
25:T:320:VAL:HG21	25:T:323:TRP:CZ2	2.53	0.42
14:T0:63:ARG:HA	14:T0:63:ARG:HD2	1.87	0.42
9:TB:165:ASN:HB3	9:TB:198:GLU:OE1	2.19	0.42
8:TC:191:THR:HA	8:TC:194:THR:HG22	2.01	0.42
9:TD:83:GLN:N	9:TD:83:GLN:OE1	2.52	0.42
8:TE:23:LEU:HD21	8:TE:232:GLY:HA3	2.02	0.42
9:TF:198:GLU:OE2	9:TF:198:GLU:N	2.52	0.42
8:TI:51:THR:HG21	8:TI:243:ARG:HG2	2.01	0.42
9:TJ:6:HIS:CD2	9:TJ:6:HIS:C	2.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TJ:21:TRP:CZ3	9:TJ:61:PRO:HB3	2.54	0.42
8:TK:77:GLU:HA	8:TK:80:THR:HG22	2.01	0.42
9:TN:131:GLN:NE2	9:TN:132:GLY:O	2.52	0.42
30:U1:198:ARG:HB3	30:U1:201:ARG:HH12	1.84	0.42
30:U3:177:LEU:HD22	30:U3:229:MET:HB3	2.00	0.42
30:U5:454:GLU:OE1	30:U5:454:GLU:N	2.48	0.42
30:U8:171:ASP:O	30:U8:175:ARG:HG2	2.19	0.42
8:UA:313:MET:N	8:UA:313:MET:SD	2.93	0.42
9:UB:276:ARG:HH22	9:UB:280:GLN:HE21	1.67	0.42
8:UC:151:SER:HA	8:UC:193:THR:HG21	2.01	0.42
9:UD:252:LYS:HA	9:UD:252:LYS:HD2	1.79	0.42
8:UE:422:ARG:NH1	8:UE:426:ALA:HB2	2.35	0.42
9:UF:313:VAL:HG13	9:UF:367:PHE:CE1	2.54	0.42
9:UJ:263:LEU:HD22	9:UJ:422:TYR:HD2	1.84	0.42
9:UJ:378:PHE:HB3	9:UJ:415:MET:SD	2.58	0.42
9:UN:270:PHE:CD1	9:UN:272:PRO:HD2	2.54	0.42
8:UO:229:ARG:HH11	8:UO:366:GLY:HA2	1.83	0.42
25:V:51:ARG:CZ	25:V:52:LEU:H	2.33	0.42
30:V1:163:LEU:HD23	30:V1:247:GLN:HB3	2.01	0.42
30:V1:454:GLU:HA	30:V1:457:ILE:HG12	2.01	0.42
30:V2:433:ARG:O	30:V2:437:THR:OG1	2.31	0.42
30:V3:421:PHE:HE2	30:V4:284:GLU:OE2	2.02	0.42
30:V6:180:ALA:O	30:V6:184:VAL:HG23	2.19	0.42
30:V8:273:THR:C	30:V8:275:ASP:H	2.27	0.42
8:VA:319:TYR:HE2	8:VA:328:VAL:HG13	1.84	0.42
9:VD:170:VAL:HG11	9:VD:377:LEU:HD11	2.02	0.42
9:VD:187:LEU:O	9:VD:191:GLN:NE2	2.53	0.42
9:VH:377:LEU:HA	9:VH:380:ARG:HD3	2.01	0.42
8:VI:7:ILE:HG23	8:VI:7:ILE:HD12	1.63	0.42
8:VI:167:LEU:HD23	8:VI:202:PHE:HE2	1.84	0.42
8:VK:311:LYS:HD3	8:VK:344:VAL:HG12	2.01	0.42
9:VL:1:MET:HE1	8:VM:96:LYS:HA	2.01	0.42
9:VN:172:SER:OG	9:VN:205:GLU:OE1	2.35	0.42
8:VO:2:ARG:HB3	8:VO:242:LEU:HD23	2.00	0.42
30:W0:311:ARG:HB3	30:W0:312:ALA:H	1.70	0.42
30:W5:217:ARG:HE	30:W5:217:ARG:HB3	1.62	0.42
8:WC:208:ALA:O	8:WC:212:ILE:HG12	2.19	0.42
9:WD:321:MET:SD	9:WD:321:MET:N	2.93	0.42
8:WE:104:ALA:HA	8:WE:413:MET:HE3	2.00	0.42
8:WE:111:GLY:O	8:WE:115:VAL:HG23	2.20	0.42
9:WJ:49:VAL:HG21	9:WJ:241:ARG:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WL:62:ARG:HG2	9:WL:123:GLU:OE2	2.20	0.42
9:WL:163:ILE:HD11	9:WL:251:ARG:HB2	2.01	0.42
9:WP:86:ARG:H	9:WP:86:ARG:HG2	1.59	0.42
31:X:424:LEU:HB3	31:X:432:ASN:HD22	1.84	0.42
31:X:460:ASP:OD2	31:X:483:ARG:NH2	2.53	0.42
33:X5:98:ASP:HB2	33:X5:100:LYS:HG2	2.01	0.42
35:XD:60:THR:HG22	35:XD:155:GLN:HG3	2.01	0.42
35:XD:115:LYS:HB3	35:XD:115:LYS:HE2	1.74	0.42
35:XH:35:LYS:HG3	35:XH:37:ILE:HG12	2.02	0.42
36:Y4:132:ARG:HD2	36:Y4:132:ARG:N	2.34	0.42
37:YA:89:TYR:CE2	37:YA:118:MET:HG2	2.54	0.42
37:YA:93:LEU:HD21	37:YA:133:LEU:HD11	2.01	0.42
37:YE:117:ASP:OD1	37:YE:117:ASP:N	2.48	0.42
37:YG:158:HIS:O	37:YG:162:SER:OG	2.31	0.42
31:Z:58:SER:HB3	31:Z:148:THR:HB	2.00	0.42
40:a2:106:PRO:HA	40:a2:126:TYR:CD2	2.54	0.42
40:a3:150:LYS:HA	40:a3:153:GLU:OE2	2.20	0.42
41:b5:181:LEU:HD12	41:b5:181:LEU:HA	1.94	0.42
39:c:234:ILE:O	39:c:238:GLU:HG2	2.19	0.42
39:c:295:GLU:O	39:c:298:LEU:HG	2.19	0.42
42:e:467:ILE:HG12	42:e:478:THR:HG22	2.01	0.42
42:f:503:THR:OG1	42:f:522:THR:N	2.52	0.42
42:f:505:PHE:HA	42:f:521:GLY:HA2	2.00	0.42
43:i:214:LEU:HD12	43:i:214:LEU:HA	1.79	0.42
46:i4:1443:ILE:HD12	46:i4:1485:LEU:HD21	2.02	0.42
2:1:444:HIS:ND1	9:HB:53:GLU:HB2	2.35	0.42
2:2:503:ARG:NH1	9:HP:36:TYR:OH	2.52	0.42
2:2:508:LYS:O	2:2:512:GLN:CB	2.67	0.42
4:6:44:GLU:OE1	4:6:57:HIS:ND1	2.52	0.42
7:A2:289:ILE:O	7:A2:293:GLU:HG3	2.20	0.42
7:A3:133:GLU:O	7:A3:137:GLN:HG3	2.20	0.42
8:AC:307:PRO:HA	8:AC:383:ALA:HB2	2.00	0.42
9:AD:88:ASP:OD1	9:AD:88:ASP:N	2.52	0.42
8:AE:192:HIS:NE2	8:AE:421:ALA:HA	2.34	0.42
8:AE:227:LEU:O	8:AE:231:ILE:HG12	2.19	0.42
8:AG:36:MET:HG2	8:AG:61:HIS:HE1	1.84	0.42
8:AG:417:GLU:N	8:AG:417:GLU:OE1	2.53	0.42
8:AK:153:LEU:HD23	8:AK:153:LEU:HA	1.85	0.42
8:AK:285:GLN:HB2	8:MK:56:THR:HG22	2.00	0.42
9:AL:45:GLU:HA	17:M:214:GLN:NE2	2.34	0.42
9:AN:274:THR:HB	9:AN:279:GLN:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AN:361:LEU:HD12	9:AN:361:LEU:HA	1.89	0.42
8:AO:423:GLU:OE2	35:XH:104:ARG:NH2	2.53	0.42
10:B:107:ASP:OD1	10:B:111:ARG:NH1	2.52	0.42
10:B:194:GLN:O	10:B:198:GLN:N	2.43	0.42
11:B2:166:GLN:O	11:B2:170:GLN:HG3	2.18	0.42
9:BB:273:LEU:O	9:BB:292:GLN:NE2	2.47	0.42
8:BG:175:PRO:N	8:BG:390:ARG:HH21	2.18	0.42
9:BH:361:LEU:HB2	31:X:93:ARG:HD3	2.02	0.42
8:BI:417:GLU:OE1	8:BI:417:GLU:N	2.43	0.42
8:BM:7:ILE:HD11	8:BM:122:ILE:HD12	2.01	0.42
8:BO:252:LEU:HA	8:BO:255:PHE:HD1	1.84	0.42
9:BP:68:LEU:HD23	9:BP:68:LEU:HA	1.92	0.42
12:C1:104:LEU:HD12	12:C1:104:LEU:HA	1.84	0.42
12:C4:167:MET:CE	12:C4:315:ARG:HG3	2.48	0.42
8:CG:398:MET:HE2	8:CG:398:MET:HB2	1.72	0.42
9:CJ:203:ASP:OD2	9:CJ:205:GLU:HB3	2.20	0.42
9:CL:156:ARG:HG3	9:CL:195:ASN:HB3	2.01	0.42
9:CL:164:MET:HE2	9:CL:164:MET:HB3	1.54	0.42
9:CN:263:LEU:HD22	9:CN:422:TYR:HD2	1.84	0.42
9:CN:346:PRO:HD2	8:CO:398:MET:SD	2.58	0.42
9:CN:375:GLN:NE2	9:CN:423:GLN:OE1	2.33	0.42
8:CO:46:ASP:HA	8:CO:49:PHE:CE2	2.55	0.42
9:CP:285:THR:OG1	9:CP:287:PRO:HD2	2.19	0.42
8:CQ:89:PRO:HG3	40:a4:14:THR:HB	2.01	0.42
14:D3:124:LEU:HD12	14:D3:124:LEU:HA	1.88	0.42
14:D4:78:ARG:HD3	14:D5:331:ASP:CG	2.43	0.42
8:DC:108:TYR:HE2	8:DC:413:MET:HE3	1.85	0.42
8:DG:324:VAL:HG12	8:DG:326:LYS:H	1.84	0.42
8:EA:2:ARG:HH21	9:EB:71:GLY:N	2.17	0.42
8:EA:201:ALA:O	8:EA:268:PRO:HD2	2.20	0.42
9:EB:113:VAL:O	9:EB:117:LEU:HG	2.20	0.42
9:EB:219:THR:OG1	31:W:401:ASP:OD2	2.27	0.42
9:ED:42:LEU:HD23	9:ED:356:ILE:HD11	2.01	0.42
9:ED:69:GLU:N	9:ED:69:GLU:OE1	2.52	0.42
8:EG:370:LYS:H	8:EG:370:LYS:HG2	1.51	0.42
9:EH:273:LEU:O	9:EH:292:GLN:NE2	2.52	0.42
8:EK:326:LYS:HE2	8:EK:326:LYS:HB2	1.83	0.42
8:EM:53:PHE:O	8:EM:64:ARG:NH1	2.52	0.42
9:EN:363:MET:HE3	9:EN:364:SER:N	2.34	0.42
9:EN:406:MET:HE3	9:EN:406:MET:O	2.18	0.42
9:FB:77:ARG:O	9:FB:83:GLN:NE2	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FD:92:PHE:HZ	36:Y2:249:LEU:HD21	1.84	0.42
9:FF:118:ASP:OD1	9:FF:121:ARG:NH2	2.44	0.42
9:FF:367:PHE:C	9:FF:368:ILE:HD13	2.44	0.42
8:FI:191:THR:HA	8:FI:194:THR:HG22	2.01	0.42
8:FM:102:ASN:ND2	8:FM:105:ARG:HG3	2.35	0.42
8:FM:167:LEU:HD23	8:FM:202:PHE:CE2	2.55	0.42
8:FO:206:ASN:HB3	8:FO:210:TYR:CZ	2.54	0.42
8:GC:278:ALA:HB1	8:GC:282:TYR:CE1	2.54	0.42
9:GF:92:PHE:HZ	49:y:120:ALA:HB2	1.84	0.42
9:GF:128:ASP:HA	49:y:136:LYS:HE3	2.01	0.42
8:GG:119:LEU:HD23	8:GG:122:ILE:HD12	2.01	0.42
9:GH:371:SER:OG	9:GH:372:THR:N	2.53	0.42
8:GI:332:ILE:HD13	8:GI:332:ILE:HA	1.89	0.42
9:GJ:156:ARG:HD2	9:GJ:156:ARG:HA	1.84	0.42
8:GK:38:SER:O	8:GK:38:SER:OG	2.34	0.42
8:GK:139:HIS:O	8:GK:170:ALA:HA	2.19	0.42
8:GK:230:LEU:HD13	8:GK:230:LEU:HA	1.86	0.42
9:GL:1:MET:H3	9:GL:3:GLU:CD	2.27	0.42
8:GM:170:ALA:O	8:GM:203:MET:HA	2.20	0.42
9:HB:19:LYS:HD3	9:HB:19:LYS:HA	1.83	0.42
9:HB:327:ASP:HB3	8:HC:177:VAL:HG11	1.99	0.42
9:HD:287:PRO:CA	9:HD:329:GLN:HE22	2.32	0.42
9:HD:374:ILE:HD12	9:HD:378:PHE:HE2	1.85	0.42
9:HF:293:MET:HE2	9:HF:365:ALA:HB3	2.02	0.42
8:HG:3:GLU:OE2	8:HG:129:CYS:HB3	2.19	0.42
8:HG:30:ILE:HG12	8:HG:61:HIS:CD2	2.54	0.42
8:HG:70:LEU:HB2	8:HG:145:THR:HG21	2.00	0.42
8:HI:158:SER:HA	8:HI:166:LYS:HZ3	1.85	0.42
9:HJ:55:THR:CG2	9:IJ:284:LEU:H	2.33	0.42
9:HJ:186:THR:HG21	9:HJ:385:PHE:CZ	2.55	0.42
8:HK:88:HIS:HB3	8:HK:91:GLN:HG3	2.01	0.42
8:HK:90:GLU:HG2	8:IK:280:LYS:NZ	2.31	0.42
9:HL:310:TYR:N	9:HL:340:TYR:O	2.40	0.42
8:HO:203:MET:H	8:HO:203:MET:CE	2.33	0.42
9:HP:299:MET:N	9:HP:299:MET:HE2	2.34	0.42
8:IA:102:ASN:HD22	8:IA:105:ARG:HG3	1.84	0.42
8:IA:251:ASP:N	8:IA:254:GLU:HG3	2.34	0.42
8:IA:325:PRO:HG2	9:IB:222:TYR:CD1	2.54	0.42
9:IB:384:GLN:NE2	9:IB:388:MET:HE3	2.35	0.42
8:IC:70:LEU:HD12	8:IC:110:ILE:HG22	2.00	0.42
8:IE:12:ALA:HA	50:IE:501:GTP:C5	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IH:102:ALA:HB2	9:IH:403:MET:HE3	2.02	0.42
9:IL:142:GLY:N	52:IL:502:GDP:O3B	2.41	0.42
9:IN:294:PHE:HE2	9:IN:333:VAL:HG11	1.84	0.42
8:IO:38:SER:OG	8:IO:39:ASP:N	2.51	0.42
8:IO:207:GLU:O	8:IO:210:TYR:HB2	2.20	0.42
9:IP:68:LEU:HD12	9:IP:97:ALA:HB2	2.01	0.42
19:J3:132:LEU:HD23	19:J3:137:GLU:HB3	2.01	0.42
19:J3:228:PRO:HA	19:J3:229:PRO:HD3	1.93	0.42
8:JC:191:THR:HA	8:JC:194:THR:HG22	2.01	0.42
8:JE:3:GLU:H	8:JE:133:GLN:HG2	1.83	0.42
8:JG:345:ASP:OD2	9:JH:391:ARG:NH2	2.52	0.42
9:JH:404:ASP:OD1	9:JH:404:ASP:N	2.41	0.42
8:JI:149:PHE:HA	8:JI:152:LEU:HD12	2.02	0.42
9:JJ:313:VAL:HG13	9:JJ:367:PHE:HE1	1.84	0.42
8:JM:231:ILE:HA	8:JM:234:ILE:HG12	1.99	0.42
8:JO:236:SER:OG	8:JO:243:ARG:NH2	2.52	0.42
8:JO:339:ARG:H	8:JO:339:ARG:HG3	1.62	0.42
8:JO:385:ALA:HA	8:JO:388:TRP:CD1	2.46	0.42
9:JP:336:LYS:HA	9:JP:336:LYS:HD2	1.70	0.42
17:K:302:ASN:OD1	17:K:302:ASN:N	2.50	0.42
20:K1:17:HIS:HB3	8:TA:130:THR:HB	2.01	0.42
20:K1:110:ARG:O	20:K1:113:HIS:NE2	2.52	0.42
8:KA:229:ARG:HA	8:KA:229:ARG:NH1	2.35	0.42
8:KA:428:LEU:HD23	8:KA:428:LEU:HA	1.82	0.42
9:KD:245:GLN:NE2	9:KD:355:ASP:OD1	2.53	0.42
9:KD:406:MET:HA	9:KD:409:THR:HG23	2.01	0.42
9:KF:293:MET:HE2	9:KF:367:PHE:HB2	2.00	0.42
8:KG:258:ASN:HD22	9:KH:179:VAL:H	1.66	0.42
8:KG:346:TRP:CD1	9:KH:391:ARG:HG3	2.54	0.42
9:KH:252:LYS:HD3	8:KI:100:ALA:HA	2.00	0.42
9:KJ:257:MET:HE2	9:KJ:314:ALA:HB2	2.00	0.42
9:KJ:265:PHE:HB3	9:KJ:374:ILE:HD13	2.01	0.42
8:KM:346:TRP:HB3	9:KN:391:ARG:HG3	2.00	0.42
9:KN:62:ARG:HG2	9:KN:123:GLU:CD	2.45	0.42
9:KN:325:GLU:OE1	8:KO:221:ARG:HG2	2.18	0.42
8:KO:149:PHE:CD1	8:KO:152:LEU:HD11	2.54	0.42
9:KP:36:TYR:OH	9:KP:43:GLN:HB3	2.20	0.42
8:LA:139:HIS:O	8:LA:170:ALA:HA	2.19	0.42
9:LB:138:SER:HA	9:LB:169:VAL:HB	2.01	0.42
9:LB:151:LEU:O	9:LB:155:ILE:HG23	2.20	0.42
8:LG:259:LEU:HD12	8:LG:259:LEU:HA	1.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LH:344:TRP:HZ3	8:LI:403:ALA:HB2	1.85	0.42
9:LJ:257:MET:HE3	9:LJ:257:MET:C	2.44	0.42
9:LL:8:GLN:HG2	9:LL:65:LEU:HG	2.01	0.42
9:MB:195:ASN:O	9:MB:196:THR:OG1	2.36	0.42
9:MD:321:MET:HE2	9:MD:363:MET:HG2	2.00	0.42
8:ME:55:GLU:OE2	8:ME:56:THR:N	2.52	0.42
8:ME:201:ALA:O	8:ME:268:PRO:HD2	2.19	0.42
8:ME:216:ASN:HD22	8:ME:275:VAL:HG23	1.84	0.42
8:MG:203:MET:HE1	8:MG:388:TRP:HE1	1.85	0.42
8:MG:209:ILE:H	8:MG:209:ILE:HG13	1.67	0.42
8:MG:251:ASP:OD1	8:MG:252:LEU:N	2.50	0.42
9:MH:21:TRP:CZ3	9:MH:61:PRO:HB3	2.55	0.42
8:MK:49:PHE:HB2	8:MK:53:PHE:HD2	1.83	0.42
8:MM:280:LYS:HB3	8:MM:280:LYS:HE2	1.75	0.42
9:MP:19:LYS:HD2	9:MP:19:LYS:HA	1.91	0.42
15:N2:220:ILE:HD13	15:N2:220:ILE:HA	1.86	0.42
8:NA:338:LYS:HD3	8:NA:341:ILE:HG12	2.00	0.42
9:NB:330:MET:SD	9:NB:331:LEU:N	2.93	0.42
8:NE:2:ARG:HA	8:NE:133:GLN:CD	2.44	0.42
8:NE:154:MET:HE1	8:NE:197:HIS:HB2	2.00	0.42
8:NG:420:GLU:HA	8:NG:423:GLU:OE1	2.19	0.42
8:NK:302:MET:N	8:NK:302:MET:SD	2.92	0.42
9:NL:202:ILE:HD12	9:NL:300:MET:HG3	2.01	0.42
8:NM:370:LYS:HA	8:NM:370:LYS:HD2	1.76	0.42
8:NO:269:LEU:O	8:NO:378:LEU:HA	2.19	0.42
25:O5:334:PRO:HG2	40:a4:152:TYR:CE1	2.55	0.42
17:O7:247:PHE:O	17:O7:251:GLN:HG2	2.19	0.42
8:OC:105:ARG:HH21	8:OC:110:ILE:HD11	1.83	0.42
8:OK:188:ILE:HD13	8:OK:425:LEU:HD12	2.00	0.42
9:OL:31:ASP:HB3	9:OL:37:HIS:CD2	2.52	0.42
9:OL:173:PRO:HD3	9:OL:380:ARG:CZ	2.49	0.42
9:OL:199:THR:N	9:OL:264:HIS:O	2.45	0.42
8:OM:157:LEU:HD23	8:OM:157:LEU:HA	1.87	0.42
9:OP:36:TYR:HB2	9:OP:59:TYR:CE2	2.55	0.42
23:P:147:LEU:HD12	23:P:147:LEU:H	1.85	0.42
27:P5:153:LEU:HD12	27:P5:153:LEU:HA	1.90	0.42
9:PF:270:PHE:HB3	9:PF:273:LEU:HD11	2.00	0.42
8:PG:265:ILE:HG23	8:PG:432:TYR:CZ	2.55	0.42
9:PH:7:LEU:HB2	9:PH:135:LEU:HB2	2.01	0.42
8:PI:2:ARG:H	8:PI:2:ARG:HG3	1.66	0.42
8:PK:149:PHE:HA	8:PK:152:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PK:234:ILE:HD11	8:PK:272:TYR:HB2	2.01	0.42
9:PL:173:PRO:HD3	9:PL:380:ARG:NH2	2.34	0.42
8:PM:425:LEU:HD23	8:PM:425:LEU:HA	1.79	0.42
9:PN:171:PRO:O	9:PN:380:ARG:NH1	2.51	0.42
8:PO:2:ARG:H	8:PO:2:ARG:HG3	1.65	0.42
8:PO:280:LYS:HD2	8:PO:283:HIS:NE2	2.34	0.42
9:PP:55:THR:HG21	9:QP:282:ARG:HH22	1.83	0.42
9:PP:73:MET:HE2	9:PP:73:MET:HB3	1.72	0.42
9:PP:411:ALA:O	9:PP:415:MET:HE2	2.19	0.42
8:QG:85:GLN:C	8:RG:283:HIS:HE2	2.27	0.42
8:QK:217:LEU:HD21	8:QK:368:LEU:HD23	2.00	0.42
8:QM:49:PHE:HE2	8:QM:55:GLU:HB2	1.85	0.42
8:QM:225:THR:O	8:QM:229:ARG:HG2	2.19	0.42
9:QN:54:ALA:HA	9:RN:283:ALA:HB2	2.01	0.42
8:QO:66:VAL:HG13	8:QO:125:LEU:HD12	2.00	0.42
9:QP:406:MET:SD	9:QP:410:GLU:HB3	2.59	0.42
9:RD:117:LEU:HD23	9:RD:117:LEU:HA	1.92	0.42
9:RD:344:TRP:H	9:RD:344:TRP:CD1	2.36	0.42
8:RE:269:LEU:HD21	8:RE:384:ILE:HD12	2.02	0.42
8:RG:102:ASN:HB3	8:RG:105:ARG:HB2	2.00	0.42
9:RH:233:MET:H	9:RH:233:MET:HG3	1.70	0.42
8:RI:166:LYS:N	8:RI:199:ASP:OD2	2.35	0.42
9:RL:31:ASP:HB3	9:RL:37:HIS:CD2	2.55	0.42
9:RL:323:MET:HB2	9:RL:324:LYS:NZ	2.34	0.42
8:RM:258:ASN:HD21	9:RN:178:THR:HG23	1.84	0.42
8:RO:125:LEU:HD23	8:RO:125:LEU:HA	1.91	0.42
8:RO:388:TRP:CE3	8:RO:425:LEU:HD11	2.55	0.42
9:RP:156:ARG:HA	9:RP:156:ARG:HD2	1.78	0.42
12:S0:194:VAL:HG13	12:S0:476:MET:HE1	2.01	0.42
12:S6:164:LEU:HD23	14:T3:247:PHE:HE2	1.84	0.42
12:S9:197:GLU:OE2	12:S9:476:MET:HE3	2.19	0.42
9:SB:362:LYS:HE3	9:SB:362:LYS:HB3	1.70	0.42
8:SC:265:ILE:HG22	8:SC:380:ASN:HD21	1.84	0.42
8:SC:271:THR:HB	8:SC:377:MET:HB3	2.01	0.42
9:SD:67:ASP:HA	9:SD:143:THR:HG21	2.01	0.42
8:SE:185:TYR:CE2	8:SE:398:MET:HE3	2.54	0.42
9:SF:5:VAL:HG22	9:SF:62:ARG:HD2	2.01	0.42
9:SF:293:MET:N	9:SF:293:MET:SD	2.92	0.42
9:SF:415:MET:HA	9:SF:418:LEU:HD23	2.00	0.42
8:SG:36:MET:HE2	8:SG:36:MET:N	2.35	0.42
8:SI:388:TRP:H	8:SI:388:TRP:CD1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SJ:152:ILE:O	9:SJ:156:ARG:HG2	2.19	0.42
9:SJ:158:GLU:HG3	9:SJ:159:TYR:CD2	2.54	0.42
9:SJ:395:LEU:C	9:SJ:399:THR:HG1	2.27	0.42
9:SL:7:LEU:N	9:SL:134:GLN:O	2.39	0.42
8:SM:35:GLN:C	8:SM:36:MET:HE2	2.43	0.42
14:T0:68:PHE:HA	14:T0:71:ARG:HD3	2.01	0.42
14:T2:339:LEU:HD23	14:T2:339:LEU:HA	1.81	0.42
9:TB:4:ILE:HD12	9:TB:50:TYR:CZ	2.54	0.42
8:TC:35:GLN:HG2	8:TC:60:LYS:HD2	2.00	0.42
8:TG:4:CYS:HB3	8:TG:136:LEU:HD11	2.02	0.42
8:TG:401:LYS:HA	8:TG:401:LYS:HD2	1.79	0.42
8:TK:153:LEU:HD12	8:TK:154:MET:SD	2.58	0.42
9:TL:269:GLY:HA2	9:TL:300:MET:HE3	2.01	0.42
8:TM:90:GLU:OE2	8:TM:121:ARG:NH1	2.52	0.42
8:TM:209:ILE:HD12	8:TM:227:LEU:HD23	2.01	0.42
30:U3:447:THR:HG23	30:U3:450:ARG:HH21	1.83	0.42
30:U6:142:LEU:HD22	30:U7:412:PRO:HB3	2.02	0.42
30:U6:466:LYS:O	30:U6:470:MET:HB2	2.19	0.42
9:UB:299:MET:SD	9:UB:301:ALA:N	2.93	0.42
8:UE:229:ARG:CZ	8:UE:366:GLY:HA2	2.49	0.42
8:UE:326:LYS:HD3	9:UF:208:TYR:CD1	2.54	0.42
9:UF:148:GLY:O	9:UF:152:ILE:HG12	2.20	0.42
8:UI:413:MET:HE1	8:UI:415:GLU:HA	2.00	0.42
8:UK:371:VAL:HG12	8:UK:373:ARG:H	1.85	0.42
9:UL:113:VAL:HA	9:UL:116:VAL:HG22	2.02	0.42
8:UM:203:MET:H	8:UM:203:MET:CE	2.33	0.42
9:UN:42:LEU:HA	9:UN:45:GLU:HG3	2.01	0.42
8:UO:235:VAL:O	8:UO:239:THR:HG22	2.19	0.42
25:V:101:ALA:HB2	25:V:183:ILE:HD13	2.01	0.42
30:V5:218:GLU:HA	30:V5:335:GLN:HG2	2.02	0.42
30:V8:332:MET:HE3	30:V8:332:MET:HB2	1.83	0.42
8:VC:252:LEU:HA	8:VC:255:PHE:CZ	2.54	0.42
9:VD:330:MET:SD	9:VD:349:VAL:HB	2.60	0.42
8:VE:50:ASN:OD1	8:VE:50:ASN:N	2.52	0.42
9:VF:207:LEU:HD11	9:VF:229:VAL:HG23	2.01	0.42
8:VG:7:ILE:HB	8:VG:137:ILE:HG12	2.02	0.42
8:VG:154:MET:HA	8:VG:157:LEU:HD12	2.01	0.42
9:VH:250:LEU:HD12	9:VH:251:ARG:N	2.33	0.42
8:VK:319:TYR:HB3	8:VK:323:VAL:HG11	2.02	0.42
8:VO:102:ASN:ND2	8:VO:105:ARG:HG3	2.35	0.42
30:W0:308:GLN:O	30:W0:311:ARG:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W2:200:LYS:HD3	30:W2:200:LYS:HA	1.85	0.42
9:WB:24:ILE:HA	9:WB:27:GLU:HG2	2.01	0.42
9:WB:50:TYR:HE2	9:WB:241:ARG:HD3	1.83	0.42
9:WD:156:ARG:HD2	9:WD:156:ARG:HA	1.76	0.42
9:WF:287:PRO:HA	9:WF:329:GLN:OE1	2.19	0.42
9:WH:7:LEU:HB2	9:WH:135:LEU:HB2	2.02	0.42
8:WI:206:ASN:HB3	8:WI:210:TYR:CZ	2.54	0.42
8:WK:84:ARG:H	8:WK:84:ARG:HG2	1.68	0.42
9:WL:310:TYR:CD1	9:WL:371:SER:HB2	2.55	0.42
9:WL:332:ASN:O	9:WL:336:LYS:HG2	2.19	0.42
8:WM:209:ILE:HG21	8:WM:227:LEU:HG	2.00	0.42
9:WN:170:VAL:HG11	9:WN:377:LEU:HD21	2.01	0.42
8:WO:431:ASP:O	8:WO:435:VAL:HG23	2.20	0.42
31:X:153:ASN:HB3	31:X:156:ILE:HG13	2.00	0.42
31:X:434:LEU:HD11	31:X:458:LEU:CD2	2.49	0.42
31:X:731:LYS:HE2	31:X:731:LYS:HB2	1.89	0.42
35:XC:61:CYS:SG	35:XC:69:LEU:HD21	2.59	0.42
35:XD:148:TYR:OH	35:XD:151:THR:N	2.52	0.42
31:Y:620:ILE:O	31:Y:624:HIS:ND1	2.51	0.42
36:Y1:22:LEU:HA	36:Y1:22:LEU:HD12	1.81	0.42
37:YC:141:LEU:HB3	37:YC:180:ILE:HG21	2.00	0.42
37:YE:156:LEU:HD22	37:YE:216:PHE:HZ	1.83	0.42
41:b1:399:ARG:NH1	41:b1:399:ARG:O	2.52	0.42
41:b3:462:ARG:HB3	41:b3:466:ARG:CZ	2.49	0.42
42:g:398:ILE:O	42:g:411:THR:HA	2.19	0.42
42:g:527:ALA:HB1	42:g:529:TRP:NE1	2.34	0.42
44:h2:45:PHE:HB3	44:h2:93:SER:HB2	2.01	0.42
46:i3:1386:TYR:HB3	46:i3:1395:ALA:HB3	2.00	0.42
46:i4:1498:ASP:CG	46:i4:1502:SER:H	2.27	0.42
43:j:155:PRO:HD2	43:j:158:ILE:HD12	2.02	0.42
4:j1:197:PRO:HB2	4:j1:203:SER:OG	2.19	0.42
49:y:60:ARG:HG2	49:y:60:ARG:HH11	1.83	0.42
3:3:29:LYS:H	3:3:29:LYS:CD	2.20	0.42
3:3:44:TYR:HA	3:3:47:TYR:HB3	2.01	0.42
4:5:225:HIS:NE2	30:V5:273:THR:O	2.53	0.42
4:6:292:MET:HE3	4:6:325:PRO:HB2	2.02	0.42
1:7:51:TRP:CD1	1:7:52:HIS:N	2.88	0.42
7:A1:246:LEU:HD23	7:A1:246:LEU:HA	1.91	0.42
9:AB:324:LYS:HG3	8:AC:210:TYR:CD1	2.55	0.42
9:AD:5:VAL:HB	9:AD:133:PHE:HD1	1.84	0.42
9:AH:20:PHE:CD1	9:AH:233:MET:HE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:378:LEU:HD23	8:AI:378:LEU:HA	1.78	0.42
8:AK:317:MET:HB2	8:AK:353:VAL:HA	2.00	0.42
9:AL:350:LYS:HA	8:AM:179:THR:O	2.19	0.42
8:AM:125:LEU:HD23	8:AM:125:LEU:HA	1.88	0.42
8:AM:282:TYR:CD2	8:AM:283:HIS:CD2	3.07	0.42
9:AN:5:VAL:HB	9:AN:133:PHE:HD1	1.85	0.42
9:AN:313:VAL:HG13	9:AN:367:PHE:CE1	2.51	0.42
9:AN:375:GLN:HA	9:AN:378:PHE:HD2	1.84	0.42
8:AO:252:LEU:HA	8:AO:255:PHE:CZ	2.53	0.42
10:B:133:MET:HE3	8:HG:370:LYS:O	2.20	0.42
11:B1:120:ARG:NH2	11:B1:131:ASP:OD2	2.48	0.42
11:B3:271:GLU:O	11:B3:275:PHE:HD1	2.03	0.42
11:B5:402:GLU:O	12:S9:312:GLN:NE2	2.44	0.42
8:BG:261:PRO:HA	9:BH:394:PHE:HD1	1.83	0.42
8:BG:439:SER:HB2	9:BH:390:ARG:HH22	1.84	0.42
8:BI:119:LEU:HA	8:BI:122:ILE:HG22	2.01	0.42
9:BJ:19:LYS:HB3	9:BJ:19:LYS:HE3	1.71	0.42
8:BM:6:SER:O	8:BM:7:ILE:HD13	2.20	0.42
8:BM:245:ASP:OD1	8:BM:246:GLY:N	2.52	0.42
8:BM:258:ASN:HD22	9:BN:179:VAL:H	1.67	0.42
8:BM:390:ARG:O	8:BM:394:LYS:NZ	2.51	0.42
9:BN:330:MET:H	9:BN:330:MET:HG2	1.71	0.42
8:BO:215:ARG:NH1	8:BO:216:ASN:OD1	2.52	0.42
10:C:376:LYS:HA	10:C:376:LYS:HD2	1.82	0.42
12:C0:167:MET:CE	12:C0:315:ARG:HG3	2.50	0.42
9:CD:52:ASN:OD1	9:CD:53:GLU:N	2.53	0.42
9:CD:323:MET:HG3	8:CE:224:TYR:HD1	1.83	0.42
8:CE:20:CYS:HB3	8:CE:24:TYR:HE1	1.84	0.42
8:CE:258:ASN:HD21	9:CF:179:VAL:H	1.67	0.42
8:CQ:5:ILE:HD13	8:CQ:125:LEU:HG	2.00	0.42
8:CQ:20:CYS:HB3	8:CQ:24:TYR:CE1	2.54	0.42
14:D2:391:LEU:HD23	14:D2:391:LEU:HA	1.93	0.42
14:D2:400:GLN:HA	14:D2:403:ARG:NH1	2.35	0.42
14:D5:350:LEU:O	14:D5:354:GLN:HG3	2.19	0.42
8:DC:82:THR:HG23	17:H:59:MET:HA	2.00	0.42
9:DH:170:VAL:HG21	9:DH:201:CYS:HB3	2.00	0.42
9:DL:77:ARG:NH2	9:DL:87:PRO:HG3	2.33	0.42
8:DM:335:ILE:HD13	8:DM:335:ILE:HA	1.89	0.42
9:DN:112:LEU:HD23	9:DN:147:MET:HE1	2.02	0.42
15:E:76:ASP:HB2	15:E:89:GLY:C	2.44	0.42
15:E:168:ASP:OD1	15:E:169:HIS:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EA:287:SER:H	8:EA:290:GLU:CD	2.27	0.42
9:EB:146:GLY:O	9:EB:149:THR:OG1	2.32	0.42
9:EB:237:THR:HG22	9:EB:250:LEU:HD21	2.02	0.42
8:EC:89:PRO:HD3	8:FC:283:HIS:NE2	2.35	0.42
8:EE:59:GLY:HA3	31:X:714:LYS:HE3	2.01	0.42
8:EE:313:MET:SD	8:EE:313:MET:N	2.93	0.42
8:EG:117:LEU:HD12	8:EG:117:LEU:H	1.84	0.42
9:EJ:324:LYS:HD3	8:EK:210:TYR:CG	2.54	0.42
8:EK:6:SER:HB3	8:EK:8:HIS:CD2	2.54	0.42
8:EK:408:TYR:HB3	8:EK:413:MET:CE	2.49	0.42
8:EM:70:LEU:HB3	8:EM:98:ASP:HA	2.01	0.42
8:EM:413:MET:HE2	8:EM:413:MET:HB3	1.87	0.42
8:EO:28:HIS:CE1	8:EO:49:PHE:HA	2.54	0.42
9:FB:94:GLN:CD	36:Y3:62:GLU:H	2.27	0.42
9:FB:323:MET:HE1	8:FC:224:TYR:CD1	2.54	0.42
8:FE:339:ARG:HH21	8:FE:342:GLN:HG2	1.83	0.42
8:FI:66:VAL:HG11	8:FI:118:VAL:HG23	2.01	0.42
8:FI:388:TRP:HE3	8:FI:425:LEU:HD11	1.84	0.42
9:FJ:222:TYR:CD2	52:FJ:502:GDP:C6	3.08	0.42
9:FJ:271:ALA:HB1	9:FJ:289:LEU:HD22	2.01	0.42
9:FJ:327:ASP:HA	9:FJ:330:MET:SD	2.60	0.42
8:FK:203:MET:HE1	8:FK:267:PHE:HD1	1.83	0.42
8:FK:352:LYS:NZ	9:FL:178:THR:HG23	2.35	0.42
9:FL:411:ALA:O	9:FL:415:MET:HG3	2.19	0.42
8:FM:7:ILE:HB	8:FM:137:ILE:HG23	2.01	0.42
9:FN:138:SER:HA	9:FN:169:VAL:HB	2.00	0.42
9:GB:131:GLN:CD	9:GB:251:ARG:HH21	2.25	0.42
8:GC:278:ALA:O	8:GC:281:ALA:N	2.49	0.42
9:GD:86:ARG:NH2	9:GD:88:ASP:OD2	2.53	0.42
9:GH:290:THR:HG21	9:GH:329:GLN:HB3	2.00	0.42
8:GI:226:ASN:ND2	8:GI:367:ASP:OD2	2.52	0.42
9:GJ:11:GLN:NE2	52:GJ:502:GDP:O1A	2.51	0.42
9:GJ:263:LEU:HD22	9:GJ:422:TYR:CD2	2.54	0.42
8:GK:2:ARG:H	8:GK:2:ARG:HG3	1.65	0.42
9:GL:165:ASN:HD21	9:GL:250:LEU:HD13	1.83	0.42
8:HA:270:ALA:HB3	8:HA:302:MET:HE1	2.01	0.42
9:HF:31:ASP:OD1	9:HF:35:THR:N	2.45	0.42
8:HG:68:VAL:HG21	8:HG:118:VAL:HG11	2.01	0.42
9:HH:3:GLU:OE2	9:HH:127:CYS:HB3	2.20	0.42
9:HL:117:LEU:O	9:HL:121:ARG:HB2	2.19	0.42
9:HN:87:PRO:HD3	9:IN:281:TYR:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IA:175:PRO:HA	8:IA:390:ARG:CZ	2.50	0.42
8:IA:269:LEU:HD21	8:IA:384:ILE:HD12	2.00	0.42
9:ID:118:ASP:HA	9:ID:121:ARG:HE	1.85	0.42
8:IE:172:TYR:HE1	8:IE:390:ARG:HH22	1.67	0.42
8:IG:79:ARG:HG2	8:IG:92:LEU:HD13	2.01	0.42
8:IG:377:MET:O	8:IG:378:LEU:HD23	2.20	0.42
8:IG:433:GLU:O	8:IG:437:VAL:HG23	2.20	0.42
9:IH:183:TYR:O	9:IH:187:LEU:HD12	2.19	0.42
9:IH:324:LYS:HZ3	8:II:222:PRO:CD	2.32	0.42
8:II:313:MET:HE3	8:II:346:TRP:CZ2	2.54	0.42
9:IL:284:LEU:HA	9:IL:288:GLU:OE2	2.20	0.42
9:IN:392:LYS:HE2	9:IN:395:LEU:HD22	2.01	0.42
9:IP:113:VAL:O	9:IP:117:LEU:HG	2.18	0.42
9:IP:334:GLN:HE22	9:IP:348:ASN:HB2	1.85	0.42
19:J1:179:PHE:HB2	9:OB:227:HIS:ND1	2.35	0.42
19:J2:222:GLN:HG3	41:b3:145:HIS:HE1	1.84	0.42
8:JC:69:ASP:O	8:JC:94:THR:HA	2.20	0.42
8:JC:89:PRO:HD2	8:KA:280:LYS:NZ	2.31	0.42
8:JC:425:LEU:HD12	8:JC:425:LEU:HA	1.86	0.42
8:JE:319:TYR:HB3	8:JE:323:VAL:HG21	2.02	0.42
9:JF:68:LEU:HD11	9:JF:108:GLU:CD	2.44	0.42
9:JH:263:LEU:HD12	9:JH:263:LEU:O	2.20	0.42
8:JI:48:SER:OG	8:JI:49:PHE:N	2.53	0.42
8:JM:2:ARG:H	8:JM:2:ARG:HG3	1.71	0.42
8:JQ:416:GLY:O	8:JQ:420:GLU:HG2	2.19	0.42
20:K2:24:GLU:HA	20:K2:27:LEU:HG	2.01	0.42
20:K2:101:LEU:HD23	47:p:165:GLN:HA	2.02	0.42
8:KE:112:LYS:H	8:KE:112:LYS:HG3	1.71	0.42
8:KE:370:LYS:NZ	8:KE:371:VAL:O	2.43	0.42
9:KF:379:LYS:HZ2	9:KF:419:VAL:HB	1.83	0.42
8:KG:128:LEU:HD23	8:KG:128:LEU:HA	1.89	0.42
8:KI:11:GLN:HA	8:KI:74:VAL:HG11	2.01	0.42
8:KI:251:ASP:OD1	8:KI:252:LEU:N	2.49	0.42
8:KK:227:LEU:H	8:KK:227:LEU:HD12	1.85	0.42
9:KN:193:VAL:HA	9:KN:264:HIS:HE2	1.85	0.42
9:KN:324:LYS:NZ	8:KO:214:ARG:HD3	2.34	0.42
9:KP:6:HIS:HD2	9:KP:21:TRP:NE1	2.18	0.42
9:KP:187:LEU:HD11	9:KP:408:PHE:HD1	1.85	0.42
9:LB:270:PHE:CE1	9:LB:272:PRO:HD2	2.55	0.42
9:LB:279:GLN:NE2	29:R:125:ARG:HG3	2.35	0.42
9:LD:321:MET:HE3	9:LD:321:MET:HB2	1.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LD:331:LEU:HD12	9:LD:331:LEU:HA	1.60	0.42
8:LE:88:HIS:HE1	8:LE:90:GLU:HG3	1.84	0.42
9:LF:390:ARG:CZ	43:i:94:HIS:HB3	2.49	0.42
8:LI:116:ASP:OD1	8:LI:116:ASP:N	2.53	0.42
8:LK:338:LYS:HD3	8:LK:338:LYS:HA	1.82	0.42
8:LM:211:ASP:O	8:LM:215:ARG:HB2	2.20	0.42
9:LN:358:PRO:HG2	9:LN:361:LEU:HD23	2.00	0.42
8:LO:259:LEU:HD21	8:LO:378:LEU:HB3	2.00	0.42
22:M1:131:LEU:HD12	22:M1:131:LEU:H	1.84	0.42
9:MD:117:LEU:HD11	9:MD:154:LYS:HD2	2.02	0.42
9:MF:7:LEU:HD12	9:MF:164:MET:HE1	2.01	0.42
9:MH:130:LEU:O	9:MH:162:ARG:NH1	2.52	0.42
8:MI:390:ARG:HE	8:MI:390:ARG:HB2	1.64	0.42
8:MK:337:THR:O	8:MK:337:THR:HG22	2.18	0.42
9:ML:77:ARG:NH1	31:Y:35:LEU:HD21	2.34	0.42
8:MM:332:ILE:HD11	8:MM:353:VAL:HG21	2.01	0.42
17:N:39:THR:O	17:N:43:LEU:HD22	2.20	0.42
15:N2:71:ILE:HD11	15:N2:122:PRO:HB3	2.01	0.42
15:N2:299:MET:SD	12:S4:422:ASN:ND2	2.91	0.42
8:NA:353:VAL:H	9:NB:177:ASP:HB2	1.84	0.42
9:ND:14:ASN:HD21	9:ND:76:VAL:HG21	1.84	0.42
9:NH:12:CYS:SG	9:NH:138:SER:HB3	2.59	0.42
8:NI:120:ASP:OD1	36:Y4:70:TYR:OH	2.26	0.42
8:NI:164:LYS:HA	8:NI:164:LYS:HD3	1.68	0.42
8:NI:260:VAL:HG13	8:NI:265:ILE:O	2.20	0.42
8:NK:183:GLU:HA	8:NK:186:ASN:ND2	2.34	0.42
8:NM:152:LEU:HD12	8:NM:153:LEU:N	2.35	0.42
9:NN:69:GLU:HG3	9:NN:71:GLY:H	1.84	0.42
8:NO:27:GLU:OE2	8:NO:236:SER:OG	2.27	0.42
25:O5:212:TYR:CZ	25:O5:216:ARG:HD2	2.54	0.42
17:O7:26:GLN:HA	17:O7:29:TYR:HD2	1.85	0.42
17:O8:45:ASP:OD2	17:O8:47:SER:N	2.33	0.42
8:OA:5:ILE:HA	8:OA:64:ARG:HD3	2.01	0.42
9:OB:374:ILE:HD12	9:OB:374:ILE:HA	1.89	0.42
8:OI:392:ASP:HA	8:OI:422:ARG:NH2	2.34	0.42
9:OL:7:LEU:HB3	9:OL:135:LEU:HB2	2.01	0.42
9:OL:314:ALA:HB3	9:OL:368:ILE:HB	2.00	0.42
9:ON:127:CYS:SG	9:ON:130:LEU:HB2	2.59	0.42
8:OO:313:MET:N	8:OO:313:MET:SD	2.93	0.42
9:OP:31:ASP:HB3	9:OP:37:HIS:CD2	2.54	0.42
9:OP:39:ASP:H	9:OP:43:GLN:HE22	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OP:167:PHE:CD2	9:OP:200:TYR:HB2	2.54	0.42
26:P2:14:TYR:O	26:P2:17:SER:OG	2.32	0.42
9:PB:42:LEU:HG	9:PB:242:PHE:HE2	1.84	0.42
8:PC:135:PHE:HD2	8:PC:166:LYS:HG2	1.84	0.42
9:PJ:182:PRO:O	9:PJ:186:THR:OG1	2.31	0.42
8:PK:70:LEU:HD12	8:PK:70:LEU:HA	1.83	0.42
9:PL:226:ASN:O	9:PL:230:SER:OG	2.36	0.42
8:PO:263:PRO:HG3	9:PP:396:HIS:CD2	2.54	0.42
9:PP:147:MET:SD	9:PP:147:MET:N	2.87	0.42
9:PP:296:ALA:HA	9:PP:299:MET:HE1	2.00	0.42
23:Q:324:LEU:HD12	23:Q:324:LEU:C	2.44	0.42
28:Q3:17:THR:HG23	12:S8:383:LYS:HE2	2.02	0.42
28:Q4:109:TYR:HE2	28:Q4:125:ALA:HB2	1.84	0.42
9:QD:273:LEU:O	9:QD:292:GLN:NE2	2.52	0.42
8:QG:202:PHE:HE1	8:QG:378:LEU:HD22	1.84	0.42
8:QI:88:HIS:CE1	8:RI:283:HIS:CD2	3.08	0.42
8:QI:231:ILE:O	8:QI:235:VAL:HG23	2.19	0.42
9:QJ:21:TRP:O	9:QJ:25:SER:OG	2.29	0.42
8:QK:12:ALA:O	8:QK:16:ILE:HD12	2.18	0.42
8:QM:209:ILE:HA	8:QM:212:ILE:HG22	2.01	0.42
9:QN:372:THR:HG21	9:QN:426:GLN:HB2	2.01	0.42
11:R3:131:ASP:N	11:R3:131:ASP:OD1	2.52	0.42
11:R3:345:LEU:HD12	11:R3:345:LEU:HA	1.86	0.42
11:R4:392:ASP:OD1	11:R4:395:ARG:NH1	2.48	0.42
8:RC:312:TYR:CE2	8:RC:341:ILE:HG23	2.54	0.42
8:RC:339:ARG:C	8:RC:339:ARG:NE	2.75	0.42
9:RD:263:LEU:HD22	9:RD:422:TYR:CD2	2.54	0.42
9:RF:371:SER:O	9:RF:422:TYR:OH	2.28	0.42
8:RG:263:PRO:HG3	9:RH:396:HIS:CD2	2.54	0.42
8:RO:239:THR:HB	8:RO:243:ARG:NH1	2.34	0.42
8:RO:324:VAL:O	8:RO:328:VAL:HG23	2.19	0.42
12:S4:157:LYS:HE3	12:S4:157:LYS:HB3	1.86	0.42
12:S5:131:LYS:O	12:S5:135:ILE:HG13	2.19	0.42
12:S5:176:ASP:HA	12:S5:179:ARG:NE	2.33	0.42
12:S5:474:MET:N	12:S5:474:MET:SD	2.92	0.42
12:S6:474:MET:HE3	12:S6:474:MET:HB3	1.83	0.42
12:S8:304:THR:O	12:S8:308:VAL:HG23	2.19	0.42
9:SB:45:GLU:OE2	9:SB:46:ARG:NE	2.52	0.42
8:SG:125:LEU:HD23	8:SG:125:LEU:HA	1.84	0.42
9:SH:311:LEU:N	9:SH:370:ASN:O	2.50	0.42
8:SI:429:GLU:HA	8:SI:432:TYR:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SL:100:ASN:HB3	9:SL:103:LYS:HD3	2.02	0.42
9:SN:257:MET:HE1	9:SN:370:ASN:ND2	2.34	0.42
14:T1:142:LEU:HD12	14:T1:142:LEU:HA	1.90	0.42
14:T1:153:THR:O	14:T1:157:GLN:HG2	2.19	0.42
14:T3:43:THR:HG22	14:T3:45:GLY:N	2.34	0.42
14:T4:159:ARG:HD2	14:T4:159:ARG:HA	1.90	0.42
14:T4:415:ASP:O	14:T4:419:LYS:HG2	2.20	0.42
14:T5:315:LEU:HD22	14:T5:423:LEU:HD12	2.00	0.42
8:TG:345:ASP:N	8:TG:345:ASP:OD1	2.51	0.42
8:TG:413:MET:HE1	8:TG:417:GLU:HB2	2.02	0.42
8:TK:215:ARG:NH2	8:TK:299:ALA:O	2.53	0.42
9:TL:152:ILE:O	9:TL:156:ARG:HG2	2.19	0.42
8:TM:271:THR:HB	8:TM:377:MET:HB3	2.02	0.42
9:TN:178:THR:HG22	9:TN:181:GLU:N	2.35	0.42
30:U1:85:ALA:HB2	31:W:573:HIS:CD2	2.55	0.42
30:U5:166:GLU:OE2	30:U5:314:SER:OG	2.37	0.42
30:U5:287:ASP:C	30:U6:409:ARG:HH21	2.27	0.42
30:U6:162:ARG:NH1	30:V2:122:ARG:HH21	2.17	0.42
30:U6:399:ARG:HH12	30:U6:412:PRO:HB2	1.84	0.42
30:U7:110:ARG:NH2	30:U8:364:ILE:HG12	2.35	0.42
30:U7:122:ARG:NH2	30:U7:123:ILE:HG13	2.35	0.42
30:U8:173:LEU:HA	30:U8:176:ARG:HD2	2.00	0.42
30:U9:367:GLU:HA	30:U9:370:GLN:HG2	2.00	0.42
8:UE:122:ILE:HD12	8:UE:157:LEU:HD21	2.02	0.42
9:UF:273:LEU:O	9:UF:292:GLN:NE2	2.48	0.42
8:UM:352:LYS:HZ3	9:UN:179:VAL:H	1.67	0.42
9:UN:83:GLN:OE1	9:UN:83:GLN:N	2.38	0.42
25:V:403:LYS:HD3	25:V:403:LYS:HA	1.90	0.42
30:V0:437:THR:O	30:V0:440:THR:OG1	2.22	0.42
30:V2:406:GLU:HA	30:V3:296:TRP:CH2	2.52	0.42
30:V2:428:GLN:HA	30:V2:431:LYS:HE2	2.02	0.42
30:V3:258:SER:O	30:V3:261:GLN:HG3	2.20	0.42
30:V4:333:TRP:CD1	30:V4:476:PHE:HZ	2.37	0.42
30:V4:464:ILE:HA	30:V4:468:LYS:HD3	2.00	0.42
30:V6:111:LEU:HG	30:V6:115:ARG:HH11	1.84	0.42
30:V7:369:PHE:HB2	30:W0:391:MET:SD	2.60	0.42
30:V7:402:ARG:NH2	30:V7:413:GLN:OE1	2.53	0.42
8:VA:51:THR:HG21	8:VA:243:ARG:HG2	2.01	0.42
8:VE:317:MET:HE2	8:VE:317:MET:N	2.34	0.42
8:VE:370:LYS:NZ	8:VE:372:GLN:HG3	2.34	0.42
9:VJ:231:ALA:HB3	9:VJ:270:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VJ:324:LYS:HE2	8:VK:222:PRO:HD2	2.02	0.42
8:VK:252:LEU:HA	8:VK:255:PHE:CZ	2.55	0.42
9:VN:325:GLU:HG3	8:VO:221:ARG:NH1	2.34	0.42
8:VO:231:ILE:HA	8:VO:234:ILE:HG12	2.01	0.42
31:W:245:ASP:N	31:W:245:ASP:OD1	2.52	0.42
30:W2:213:LYS:HE3	30:W2:217:ARG:CD	2.49	0.42
30:W2:458:LYS:HD3	30:W2:458:LYS:HA	1.72	0.42
30:W5:122:ARG:HA	30:W5:125:GLN:HB3	2.01	0.42
30:W5:325:PHE:HB3	30:W5:483:THR:HG22	2.01	0.42
30:W5:376:MET:HA	30:W5:379:GLU:HB2	2.01	0.42
30:W7:377:LEU:HD12	30:W7:380:ARG:NH2	2.34	0.42
8:WA:430:LYS:O	8:WA:434:GLU:HG2	2.20	0.42
9:WB:404:ASP:OD1	9:WB:404:ASP:N	2.31	0.42
8:WC:317:MET:N	8:WC:317:MET:HE2	2.34	0.42
8:WE:83:TYR:HB3	8:WE:86:LEU:HB3	2.01	0.42
9:WF:156:ARG:NH1	9:WF:197:ASP:OD1	2.49	0.42
8:WG:195:LEU:HD13	8:WG:428:LEU:HD22	2.01	0.42
8:WI:6:SER:HB3	8:WI:8:HIS:CD2	2.55	0.42
9:WJ:257:MET:SD	9:WJ:312:THR:OG1	2.71	0.42
9:WL:256:ASN:HD21	8:WM:181:VAL:H	1.66	0.42
8:WM:384:ILE:HG23	8:WM:388:TRP:HZ3	1.84	0.42
9:WP:214:THR:HG23	9:WP:297:LYS:HZ3	1.84	0.42
31:X:231:ARG:HB3	31:X:357:ASP:OD2	2.20	0.42
31:X:234:CYS:HB2	31:X:249:PHE:HB2	2.00	0.42
33:X5:75:ILE:HD13	33:X5:78:GLN:OE1	2.19	0.42
34:X6:210:MET:HE3	34:X6:211:PRO:HD2	2.02	0.42
34:X7:97:LEU:N	34:X7:141:VAL:O	2.52	0.42
35:XC:111:THR:OG1	35:XC:113:ARG:NE	2.52	0.42
35:XD:97:LYS:HA	35:XD:97:LYS:HD2	1.92	0.42
35:XH:40:ASN:O	35:XH:43:GLN:NE2	2.52	0.42
36:Y4:189:GLU:O	36:Y4:189:GLU:HG3	2.17	0.42
37:YH:186:ASN:OD1	37:YH:186:ASN:N	2.52	0.42
31:Z:139:PRO:HB2	31:Z:141:PRO:HD2	2.01	0.42
39:a:269:GLU:HA	39:a:272:ARG:HD2	2.02	0.42
39:a:321:GLU:HA	39:a:324:ARG:HD2	2.01	0.42
40:a1:41:ALA:O	40:a1:45:ARG:HG2	2.19	0.42
40:a3:5:LYS:HB3	40:a3:6:THR:H	1.62	0.42
39:a6:127:ARG:O	39:a6:131:LEU:HG	2.19	0.42
41:b1:435:GLU:OE1	41:b1:436:LEU:HD23	2.20	0.42
41:b4:182:ARG:HD2	41:b4:185:ARG:NH1	2.34	0.42
41:b4:225:LYS:HE2	41:b4:225:LYS:HB3	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:c:448:ARG:HA	39:c:451:ARG:NH1	2.35	0.42
42:e:93:ILE:HD13	42:e:117:LEU:HD21	2.00	0.42
42:f:292:GLY:O	42:f:310:GLU:N	2.52	0.42
42:g:347:LEU:HD23	43:k:14:ILE:HG12	2.00	0.42
44:h3:133:SER:O	44:h3:137:ARG:HG3	2.19	0.42
45:i1:4:ASN:ND2	45:i1:26:ARG:HD3	2.35	0.42
46:i2:1357:THR:HA	46:i2:1395:ALA:HA	2.01	0.42
46:i3:1333:ARG:HA	46:i3:1403:CYS:HB2	2.01	0.42
46:i3:1335:GLN:HB2	46:i3:1372:LEU:HD22	2.01	0.42
46:i3:1357:THR:HB	46:i3:1393:LYS:HB3	2.02	0.42
4:j1:282:ASP:OD1	4:j1:282:ASP:N	2.51	0.42
4:j1:344:CYS:HA	4:j1:360:LEU:HB2	2.01	0.42
43:k:202:LYS:O	43:k:206:GLU:HG3	2.18	0.42
43:k:242:SER:O	43:k:246:LYS:HG2	2.20	0.42
2:2:458:ASN:HB3	2:2:461:SER:HB3	2.02	0.42
3:3:327:LYS:O	3:3:330:GLN:HG2	2.18	0.42
3:3:393:VAL:HG23	8:GC:370:LYS:HG3	2.02	0.42
4:5:19:PRO:HB2	4:5:20:LYS:H	1.68	0.42
4:5:100:GLN:HB3	8:IC:39:ASP:HA	2.00	0.42
4:5:159:HIS:HE1	4:5:163:PRO:O	2.02	0.42
6:A:53:ASP:O	6:A:57:GLN:HG3	2.20	0.42
7:A2:161:ILE:O	7:A2:165:ARG:HG2	2.19	0.42
9:AB:232:THR:OG1	9:AB:300:MET:HE1	2.19	0.42
8:AC:348:PRO:HD2	9:AD:388:MET:CE	2.50	0.42
8:AE:276:ILE:HD12	8:AE:281:ALA:HA	2.01	0.42
8:AE:345:ASP:N	8:AE:345:ASP:OD1	2.52	0.42
9:AH:211:CYS:HB3	9:AH:217:LEU:HD13	2.02	0.42
9:AL:19:LYS:HA	9:AL:19:LYS:HE2	2.02	0.42
9:AL:229:VAL:HG12	9:AL:233:MET:SD	2.60	0.42
8:AM:137:ILE:HG13	8:AM:168:GLU:HA	2.00	0.42
9:AN:344:TRP:CZ3	8:AO:403:ALA:HB2	2.55	0.42
8:AO:217:LEU:HB3	8:AO:219:ILE:HG12	2.02	0.42
9:AP:299:MET:HE2	9:AP:299:MET:HA	2.02	0.42
10:B:66:GLU:OE1	10:B:66:GLU:HA	2.18	0.42
11:B1:169:ARG:NH1	28:Q1:120:ASP:OD1	2.51	0.42
11:B3:27:ASN:O	11:B3:31:GLN:NE2	2.49	0.42
11:B3:120:ARG:NH2	11:B3:131:ASP:OD2	2.50	0.42
11:B3:298:ARG:O	11:B3:301:GLU:HG2	2.20	0.42
11:B4:108:LEU:HA	11:B4:108:LEU:HD12	1.90	0.42
9:BB:32:PRO:HD3	9:BB:81:PHE:CZ	2.55	0.42
8:BM:39:ASP:N	25:O5:225:THR:OG1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BN:374:ILE:HD12	9:BN:374:ILE:HA	1.82	0.42
8:BO:11:GLN:HA	8:BO:74:VAL:HG11	2.02	0.42
12:C5:386:ILE:HA	12:C5:431:ILE:HD11	2.01	0.42
12:C5:400:LEU:O	12:C5:404:THR:HG23	2.19	0.42
8:CC:402:ARG:HD3	8:CC:402:ARG:HA	1.86	0.42
9:CD:18:ALA:HB2	9:CD:76:VAL:HG23	2.00	0.42
8:CE:269:LEU:N	8:CE:379:SER:O	2.47	0.42
8:CG:276:ILE:HD11	8:CG:280:LYS:HB3	2.02	0.42
8:CG:348:PRO:HG3	9:CH:384:GLN:HB2	2.01	0.42
8:CK:88:HIS:CE1	8:CK:90:GLU:HB3	2.54	0.42
9:CN:73:MET:CE	9:CN:90:PHE:HB3	2.47	0.42
14:D3:131:MET:HE1	14:D3:278:LEU:HB3	2.01	0.42
14:D3:226:ASP:O	14:D3:230:ARG:HG2	2.19	0.42
14:D3:376:ARG:HD3	14:D3:380:GLU:OE2	2.20	0.42
14:D4:102:LYS:NZ	14:D5:372:ASN:OD1	2.51	0.42
14:D5:383:GLU:HA	14:D5:386:MET:HE2	2.02	0.42
8:DC:21:TRP:CD1	8:DC:87:PHE:HZ	2.36	0.42
9:DD:19:LYS:HA	9:DD:19:LYS:HD2	1.87	0.42
8:DE:1:MET:HE2	8:DE:50:ASN:HB3	2.00	0.42
8:DE:36:MET:HB2	8:DE:61:HIS:NE2	2.33	0.42
8:DI:101:ASN:ND2	8:DI:142:GLY:O	2.52	0.42
8:DK:164:LYS:HA	8:DK:164:LYS:HD3	1.82	0.42
8:DM:211:ASP:OD1	8:DM:215:ARG:NH2	2.48	0.42
9:DN:313:VAL:HG13	9:DN:367:PHE:HE1	1.84	0.42
8:DO:388:TRP:CD1	8:DO:388:TRP:H	2.38	0.42
8:DQ:62:VAL:HG11	8:EO:283:HIS:O	2.19	0.42
9:EB:407:GLU:HA	9:EB:410:GLU:HG2	2.02	0.42
8:EC:255:PHE:O	8:EC:259:LEU:HD23	2.19	0.42
9:ED:87:PRO:HD2	9:FD:281:TYR:CE2	2.54	0.42
9:ED:293:MET:HE3	9:ED:294:PHE:N	2.35	0.42
8:EE:27:GLU:OE1	8:EE:243:ARG:NH2	2.53	0.42
8:EK:204:VAL:HG23	8:EK:302:MET:HB3	2.01	0.42
8:EK:398:MET:N	8:EK:398:MET:HE2	2.34	0.42
8:EM:298:PRO:HA	8:EM:301:GLN:HG2	2.00	0.42
9:EN:375:GLN:HA	9:EN:378:PHE:HD2	1.84	0.42
8:FA:64:ARG:NE	8:FA:129:CYS:SG	2.92	0.42
9:FB:68:LEU:HD23	9:FB:68:LEU:HA	1.92	0.42
8:FC:290:GLU:HA	8:FC:293:ASN:ND2	2.35	0.42
9:FD:167:PHE:HB3	9:FD:202:ILE:HD11	2.02	0.42
8:FE:395:PHE:CE2	8:FE:422:ARG:HB2	2.55	0.42
9:FJ:318:ARG:HG3	9:FJ:356:ILE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:376:GLU:HG2	9:FJ:380:ARG:NH1	2.35	0.42
9:FL:111:GLU:O	36:Y2:93:TYR:OH	2.25	0.42
9:FL:172:SER:HB2	9:FL:203:ASP:OD1	2.19	0.42
8:FO:121:ARG:HH11	8:FO:121:ARG:HA	1.83	0.42
8:FO:220:GLU:OE2	8:FO:221:ARG:NH1	2.53	0.42
8:FO:230:LEU:O	8:FO:234:ILE:HG12	2.19	0.42
8:GA:167:LEU:HD23	8:GA:202:PHE:HE2	1.84	0.42
8:GA:352:LYS:NZ	9:GB:99:ASN:HD21	2.17	0.42
9:GB:7:LEU:N	9:GB:134:GLN:O	2.40	0.42
9:GB:83:GLN:O	9:HB:281:TYR:OH	2.25	0.42
9:GB:87:PRO:HD3	9:HB:281:TYR:CD2	2.54	0.42
8:GC:280:LYS:HA	8:GC:280:LYS:HD2	1.69	0.42
9:GF:327:ASP:HA	9:GF:330:MET:SD	2.59	0.42
9:GH:401:GLU:HB2	9:GH:403:MET:CE	2.49	0.42
8:GK:183:GLU:HA	8:GK:186:ASN:HD22	1.84	0.42
8:GK:274:PRO:HG3	8:GK:371:VAL:HG11	2.00	0.42
8:GK:350:GLY:HA2	9:GL:179:VAL:HG13	2.00	0.42
8:GM:2:ARG:H	8:GM:2:ARG:HG3	1.47	0.42
8:GM:56:THR:HA	8:HM:285:GLN:OE1	2.19	0.42
8:GM:340:THR:HG23	8:GM:341:ILE:HG12	2.01	0.42
8:HA:90:GLU:HG2	8:HA:121:ARG:HD3	2.02	0.42
8:HC:88:HIS:CE1	8:IC:284:GLU:OE1	2.72	0.42
9:HD:7:LEU:HA	9:HD:64:VAL:HG23	2.00	0.42
9:HD:270:PHE:HD2	9:HD:273:LEU:HD21	1.84	0.42
9:HD:273:LEU:O	9:HD:292:GLN:NE2	2.46	0.42
8:HG:206:ASN:HA	8:HG:209:ILE:HD12	2.00	0.42
9:HL:189:VAL:HA	9:HL:192:LEU:HB2	2.02	0.42
9:HL:312:THR:O	9:HL:370:ASN:N	2.45	0.42
9:HN:361:LEU:HD12	9:HN:361:LEU:HA	1.82	0.42
8:HO:6:SER:HB3	8:HO:8:HIS:NE2	2.35	0.42
8:HO:55:GLU:OE2	8:HO:59:GLY:HA2	2.19	0.42
9:HP:112:LEU:HB2	9:HP:147:MET:HE1	2.02	0.42
8:IA:340:THR:OG1	36:Y0:69:ARG:NH1	2.52	0.42
8:IC:324:VAL:HB	8:IC:327:ASP:OD2	2.19	0.42
8:IE:99:ALA:HA	8:IE:105:ARG:HD3	2.01	0.42
8:IG:194:THR:O	8:IG:266:HIS:NE2	2.48	0.42
8:II:224:TYR:CE1	50:II:501:GTP:C5	3.08	0.42
8:IK:297:GLU:OE2	8:IK:300:ASN:N	2.52	0.42
9:IL:100:ASN:HB3	9:IL:103:LYS:HD3	2.01	0.42
9:IN:204:ASN:HA	9:IN:207:LEU:HD12	2.02	0.42
9:IN:306:ARG:HA	9:IN:306:ARG:HD2	1.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:IN:375:GLN:HA	9:IN:378:PHE:HD2	1.84	0.42
17:J:216:LYS:HE2	17:J:216:LYS:HB2	1.87	0.42
19:J2:201:ALA:O	19:J2:205:GLU:HG2	2.19	0.42
19:J3:35:PRO:HB3	19:J3:74:ARG:O	2.19	0.42
19:J3:235:LEU:HD13	8:LK:393:HIS:CG	2.54	0.42
19:J4:106:PHE:CZ	9:NL:58:LYS:HB2	2.55	0.42
9:JB:345:ILE:HG23	8:JC:398:MET:CE	2.43	0.42
9:JD:41:ASP:OD1	9:JD:42:LEU:N	2.53	0.42
8:JE:202:PHE:CE1	8:JE:378:LEU:HD11	2.53	0.42
9:JF:32:PRO:O	9:JF:84:ILE:HD11	2.20	0.42
8:JK:88:HIS:CE1	8:JK:90:GLU:HB3	2.55	0.42
8:JK:339:ARG:H	8:JK:339:ARG:HG3	1.69	0.42
9:JP:323:MET:HE3	8:JQ:224:TYR:CD1	2.54	0.42
8:JQ:424:ASP:O	8:JQ:428:LEU:HG	2.19	0.42
8:KC:171:ILE:HD13	8:KC:171:ILE:HA	1.89	0.42
8:KC:203:MET:SD	8:KC:203:MET:N	2.89	0.42
9:KD:385:PHE:CE2	9:KD:412:GLU:HB3	2.54	0.42
9:KF:344:TRP:CD2	8:KG:401:LYS:HD2	2.54	0.42
8:KG:105:ARG:HH21	8:KG:110:ILE:HD11	1.85	0.42
8:KI:381:THR:OG1	8:KI:382:THR:N	2.53	0.42
9:KL:286:VAL:HB	9:KL:287:PRO:HD3	2.02	0.42
8:KM:1:MET:N	8:KM:1:MET:HE3	2.35	0.42
8:LA:88:HIS:HD2	8:LA:89:PRO:CD	2.32	0.42
9:LB:390:ARG:NH1	44:h1:42:LEU:HG	2.35	0.42
8:LC:57:GLY:HA2	23:P:336:ARG:HD2	2.01	0.42
9:LD:68:LEU:HB2	9:LD:143:THR:HG21	2.01	0.42
9:LF:215:LEU:HD21	9:LF:273:LEU:HB3	2.01	0.42
9:LF:390:ARG:NH2	43:i:94:HIS:HB3	2.34	0.42
9:LF:396:HIS:HA	9:LF:399:THR:HG22	2.01	0.42
9:LH:217:LEU:HD11	25:V:14:GLY:HA3	2.01	0.42
9:LH:388:MET:HG2	9:LH:393:ALA:HB3	2.01	0.42
8:LK:334:THR:HA	8:LK:337:THR:HG22	2.00	0.42
8:LO:192:HIS:NE2	8:LO:421:ALA:HA	2.35	0.42
9:LP:309:ARG:HG3	9:LP:426:GLN:HG3	2.02	0.42
8:MA:171:ILE:HD13	8:MA:204:VAL:HG23	2.00	0.42
8:MA:191:THR:HA	8:MA:194:THR:HG22	2.01	0.42
8:MA:285:GLN:HG2	23:O:38:MET:HB3	2.00	0.42
8:MC:395:PHE:CD2	8:MC:422:ARG:HD3	2.54	0.42
9:MD:215:LEU:HD21	9:MD:273:LEU:HB3	2.02	0.42
9:MF:176:SER:OG	9:MF:181:GLU:OE1	2.29	0.42
8:MG:206:ASN:OD1	8:MG:206:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:MI:230:LEU:HD12	8:MI:230:LEU:HA	1.87	0.42
8:MI:361:THR:OG1	8:MI:362:VAL:N	2.52	0.42
9:MJ:58:LYS:HE2	9:MJ:58:LYS:HB3	1.83	0.42
8:MK:384:ILE:HG23	8:MK:388:TRP:HZ3	1.84	0.42
8:MO:71:GLU:HG3	8:MO:73:THR:HG22	2.00	0.42
8:NA:70:LEU:HD23	8:NA:70:LEU:HA	1.80	0.42
9:NB:153:SER:HA	9:NB:195:ASN:HD22	1.85	0.42
9:NB:325:GLU:HA	9:NB:328:GLU:HB2	2.02	0.42
8:NC:326:LYS:HG3	9:ND:212:PHE:CZ	2.55	0.42
8:NC:338:LYS:HE2	8:NC:340:THR:HB	2.02	0.42
8:NE:149:PHE:CD1	8:NE:152:LEU:HD11	2.55	0.42
8:NG:56:THR:HG22	8:NG:60:LYS:O	2.19	0.42
9:NH:292:GLN:NE2	9:NH:298:ASN:HD22	2.17	0.42
8:NK:270:ALA:O	8:NK:302:MET:HG2	2.20	0.42
8:NK:381:THR:OG1	8:NK:382:THR:N	2.53	0.42
8:NM:320:ARG:HG2	8:NM:360:PRO:HD3	2.02	0.42
9:NN:226:ASN:OD1	52:NN:502:GDP:N1	2.31	0.42
23:O:12:GLU:H	23:O:12:GLU:CD	2.27	0.42
8:OC:402:ARG:HG2	8:OC:405:VAL:HB	2.02	0.42
8:OE:188:ILE:HD13	8:OE:425:LEU:HD12	2.01	0.42
9:OF:113:VAL:HG11	9:OF:150:LEU:HD23	2.02	0.42
9:OF:309:ARG:HG3	9:OF:426:GLN:HG3	2.01	0.42
8:OI:223:THR:OG1	8:OI:224:TYR:N	2.52	0.42
9:OJ:226:ASN:HA	9:OJ:229:VAL:HG22	2.00	0.42
8:OK:33:ASP:OD1	8:OK:34:GLY:N	2.53	0.42
8:OM:293:ASN:ND2	36:Y5:218:PRO:HG3	2.35	0.42
8:OO:21:TRP:CD2	8:OO:63:PRO:HB3	2.53	0.42
8:OO:152:LEU:HD12	8:OO:153:LEU:N	2.34	0.42
27:P3:40:GLU:O	27:P3:44:LEU:HD22	2.20	0.42
9:PB:275:SER:O	9:PB:279:GLN:NE2	2.52	0.42
8:PE:172:TYR:HB2	8:PE:203:MET:HB2	2.00	0.42
9:PF:87:PRO:HA	9:PF:90:PHE:HD1	1.84	0.42
8:PI:246:GLY:HA2	8:PI:357:TYR:CD1	2.55	0.42
8:PK:431:ASP:HA	8:PK:434:GLU:HG3	2.01	0.42
8:PM:2:ARG:H	8:PM:2:ARG:HG3	1.65	0.42
8:PM:83:TYR:HB3	8:PM:86:LEU:HD22	2.01	0.42
8:PM:313:MET:HE3	8:PM:346:TRP:CH2	2.45	0.42
9:PN:334:GLN:O	9:PN:334:GLN:NE2	2.52	0.42
8:PO:223:THR:HG23	8:PO:225:THR:H	1.85	0.42
8:PO:250:VAL:HG13	8:PO:254:GLU:HB2	2.02	0.42
9:PP:257:MET:HE3	9:PP:368:ILE:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PP:310:TYR:CD1	9:PP:371:SER:HB2	2.54	0.42
28:Q3:169:LEU:HB2	12:S8:374:GLN:NE2	2.34	0.42
28:Q4:196:GLY:C	28:Q4:197:GLN:OE1	2.62	0.42
9:QD:270:PHE:CD2	9:QD:272:PRO:HD2	2.54	0.42
9:QD:280:GLN:HG3	9:QD:281:TYR:CD1	2.55	0.42
8:QE:326:LYS:HE2	9:QF:220:PRO:HD2	2.01	0.42
9:QH:68:LEU:HB3	9:QH:95:SER:O	2.20	0.42
9:QJ:196:THR:HB	9:QJ:264:HIS:CE1	2.55	0.42
8:QM:259:LEU:HD21	8:QM:316:CYS:CB	2.48	0.42
9:QN:86:ARG:HG3	9:QN:88:ASP:H	1.83	0.42
9:QP:285:THR:HG23	9:QP:288:GLU:H	1.84	0.42
29:R:174:ARG:HH22	29:R:177:HIS:CD2	2.37	0.42
11:R0:275:PHE:O	11:R0:279:LEU:HG	2.19	0.42
11:R4:138:LEU:O	11:R4:142:GLU:HG2	2.20	0.42
8:RC:152:LEU:O	8:RC:156:ARG:HG3	2.20	0.42
8:RC:188:ILE:O	8:RC:191:THR:OG1	2.37	0.42
9:RD:83:GLN:O	9:SB:281:TYR:OH	2.34	0.42
9:RF:197:ASP:OD1	9:RF:197:ASP:N	2.53	0.42
9:RF:223:GLY:O	9:RF:227:HIS:N	2.48	0.42
8:RK:388:TRP:CE3	8:RK:425:LEU:HD11	2.55	0.42
8:RO:236:SER:HA	8:RO:243:ARG:HH12	1.84	0.42
12:S1:350:ARG:O	12:S1:354:THR:HG23	2.20	0.42
12:S6:452:LYS:HB2	12:S6:452:LYS:HE2	1.84	0.42
12:S9:235:GLN:O	12:S9:239:LYS:HG2	2.19	0.42
8:SA:2:ARG:HH11	8:SA:242:LEU:HA	1.84	0.42
8:SA:288:VAL:HA	8:SA:291:ILE:HG12	2.01	0.42
9:SF:83:GLN:H	9:SF:83:GLN:CD	2.27	0.42
9:SF:253:LEU:HD23	9:SF:350:LYS:HZ3	1.84	0.42
9:SH:362:LYS:HE3	9:SH:362:LYS:HB3	1.92	0.42
8:SI:388:TRP:HB3	8:SI:425:LEU:HD11	2.01	0.42
9:SJ:344:TRP:CD2	8:SK:401:LYS:HD2	2.54	0.42
8:SK:265:ILE:HD13	8:SK:432:TYR:CZ	2.54	0.42
9:SL:3:GLU:C	9:SL:4:ILE:HD13	2.44	0.42
9:SL:402:GLY:C	9:SL:403:MET:HE2	2.45	0.42
9:SN:25:SER:HB3	9:SN:30:ILE:HB	2.02	0.42
14:T4:296:GLN:O	14:T4:300:VAL:HG23	2.19	0.42
9:TD:170:VAL:HG11	9:TD:377:LEU:HD11	2.00	0.42
8:TE:85:GLN:O	8:UE:283:HIS:NE2	2.53	0.42
8:TI:3:GLU:OE2	8:TI:64:ARG:NH2	2.52	0.42
8:TI:108:TYR:HB2	8:TI:411:GLU:OE2	2.19	0.42
8:TI:111:GLY:O	8:TI:115:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TN:274:THR:HB	9:TN:278:SER:HB2	2.01	0.42
25:U:283:ASN:O	25:U:285:ARG:HG2	2.19	0.42
30:U0:381:ALA:O	30:U0:385:LYS:HG2	2.19	0.42
30:U1:378:LEU:HB3	30:U1:434:LEU:HD13	2.01	0.42
30:U2:474:LYS:HD3	30:U2:474:LYS:HA	1.87	0.42
30:U3:343:PHE:HB3	30:U3:470:MET:HE1	2.01	0.42
30:U5:86:LEU:HA	30:U5:86:LEU:HD12	1.46	0.42
30:U8:163:LEU:HD21	30:U8:247:GLN:HB2	2.02	0.42
9:UB:42:LEU:HA	9:UB:45:GLU:HG3	2.00	0.42
8:UE:313:MET:N	8:UE:380:ASN:O	2.45	0.42
9:UF:244:GLY:HA3	9:UF:354:CYS:HA	2.02	0.42
9:UF:276:ARG:O	39:c:348:MET:HE1	2.19	0.42
8:UG:209:ILE:HD12	8:UG:227:LEU:HD23	2.01	0.42
9:UH:1:MET:HA	8:UI:96:LYS:NZ	2.33	0.42
9:UN:388:MET:N	9:UN:388:MET:HE2	2.34	0.42
25:V:269:MET:H	25:V:269:MET:HG3	1.69	0.42
30:V1:145:ARG:HD3	30:V1:145:ARG:HA	1.85	0.42
30:V1:403:PRO:HD2	30:V2:260:ALA:HB2	2.02	0.42
30:V6:232:LEU:HD12	30:V6:232:LEU:HA	1.81	0.42
30:V7:410:ASP:OD1	30:V7:410:ASP:N	2.44	0.42
9:VB:273:LEU:O	9:VB:292:GLN:NE2	2.53	0.42
8:VE:105:ARG:HH21	8:VE:110:ILE:HG13	1.84	0.42
8:VE:245:ASP:HA	8:VE:249:ASN:HD21	1.85	0.42
9:VH:229:VAL:O	9:VH:233:MET:HG2	2.19	0.42
9:VH:248:ALA:HA	9:VH:252:LYS:HG3	2.02	0.42
9:VL:359:ARG:HA	39:b:390:ARG:HH12	1.84	0.42
8:VM:102:ASN:ND2	8:VM:105:ARG:HG3	2.34	0.42
9:VN:12:CYS:SG	9:VN:169:VAL:HG21	2.59	0.42
9:VN:77:ARG:NH1	9:VN:82:GLY:O	2.52	0.42
9:VN:362:LYS:NZ	39:b:340:VAL:HG22	2.34	0.42
8:VO:145:THR:HA	8:VO:149:PHE:CE2	2.55	0.42
31:W:653:LEU:HD23	31:W:690:TYR:CE1	2.55	0.42
30:W0:163:LEU:HD13	30:W0:307:ALA:HB1	2.02	0.42
30:W0:225:CYS:O	30:W0:228:GLN:HG3	2.19	0.42
30:W4:235:ARG:NH2	30:W4:320:GLU:OE1	2.53	0.42
30:W4:248:HIS:O	30:W4:252:ARG:HG3	2.20	0.42
30:W5:214:ASN:HB3	30:W5:339:THR:HG23	2.01	0.42
30:W7:201:ARG:HB2	30:W7:206:LEU:HD13	2.01	0.42
30:W7:378:LEU:HD23	30:W7:378:LEU:HA	1.82	0.42
8:WA:352:LYS:HE3	9:WB:179:VAL:H	1.85	0.42
8:WC:269:LEU:N	8:WC:379:SER:O	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WD:210:ILE:HD13	9:WD:210:ILE:HA	1.84	0.42
8:WE:6:SER:HB3	8:WE:8:HIS:CD2	2.54	0.42
8:WE:155:GLU:HA	8:WE:197:HIS:ND1	2.35	0.42
8:WG:252:LEU:HD12	8:WG:252:LEU:H	1.85	0.42
31:X:437:PHE:HB3	31:X:524:ASN:HB3	2.01	0.42
34:X7:50:PRO:O	34:X7:53:VAL:N	2.53	0.42
34:X7:167:LEU:HD22	34:X7:189:ASP:HA	2.00	0.42
35:XB:170:ARG:NH1	35:XB:171:LEU:O	2.52	0.42
35:XH:69:LEU:HD23	35:XH:69:LEU:HA	1.87	0.42
37:YA:26:PHE:HA	37:YA:30:ALA:HB3	2.01	0.42
37:YA:77:LYS:HA	37:YA:109:PHE:HZ	1.83	0.42
37:YF:188:ASN:OD1	37:YF:188:ASN:N	2.52	0.42
37:YH:126:ILE:HD11	37:YH:163:SER:HB3	2.01	0.42
31:Z:465:VAL:HB	31:Z:480:PHE:HB3	2.01	0.42
39:a:280:GLU:O	39:a:284:GLU:HG2	2.19	0.42
40:a2:11:LEU:HD22	40:a2:11:LEU:N	2.34	0.42
41:b1:398:VAL:O	41:b1:402:GLN:HB2	2.19	0.42
41:b2:326:GLN:OE1	41:b2:330:ASN:ND2	2.44	0.42
41:b2:409:LEU:HD23	41:b2:409:LEU:HA	1.80	0.42
41:b3:357:MET:SD	41:b3:440:HIS:ND1	2.93	0.42
41:b5:164:ARG:HG3	41:b5:318:GLU:HG2	2.02	0.42
42:e:530:GLU:HG2	42:e:532:PHE:H	1.85	0.42
42:f:303:HIS:CE1	46:i3:1494:LEU:HB3	2.55	0.42
42:f:524:ARG:HG2	42:f:546:GLY:C	2.44	0.42
44:h2:118:MET:HG2	44:h2:124:LEU:O	2.19	0.42
44:h4:95:ARG:O	44:h4:102:ARG:NH2	2.52	0.42
46:i3:1441:LEU:HD23	46:i3:1441:LEU:HA	1.88	0.42
45:l:7:ALA:HB1	45:l:10:TYR:HB2	2.01	0.42
47:o:161:GLU:HA	47:o:164:VAL:HG12	2.02	0.42
47:p:535:ASP:C	47:p:537:GLN:H	2.27	0.42
3:3:173:GLU:HA	8:GK:372:GLN:HE22	1.85	0.42
4:6:302:GLU:HG3	13:K3:332:GLY:HA3	2.01	0.42
1:7:167:PRO:HA	1:7:168:PRO:HD3	1.88	0.42
5:8:91:PRO:HD2	5:8:94:ARG:HB2	2.02	0.42
7:A1:134:GLN:HA	7:A1:137:GLN:OE1	2.20	0.42
7:A1:139:GLU:O	7:A1:143:ILE:HD12	2.20	0.42
7:A4:192:ASN:OD1	7:A4:195:SER:OG	2.36	0.42
7:A4:339:LYS:HB3	7:A4:339:LYS:HE3	1.91	0.42
7:A4:346:HIS:CD2	7:A4:350:ARG:HD2	2.55	0.42
8:AA:122:ILE:HD13	8:AA:157:LEU:HD11	2.01	0.42
8:AC:269:LEU:HD12	8:AC:269:LEU:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AC:283:HIS:CD2	8:MC:60:LYS:HZ3	2.37	0.42
8:AC:328:VAL:HG11	8:AC:353:VAL:HG11	2.01	0.42
8:AG:66:VAL:HG22	8:AG:68:VAL:HG13	2.00	0.42
9:AH:324:LYS:HB3	8:AI:222:PRO:HD2	2.01	0.42
8:AI:207:GLU:OE2	8:AI:304:LYS:NZ	2.52	0.42
9:AJ:198:GLU:HA	9:AJ:264:HIS:HB2	2.01	0.42
8:AK:75:VAL:HG12	8:AK:92:LEU:HD23	2.01	0.42
8:AK:318:LEU:HD23	8:AK:318:LEU:HA	1.93	0.42
8:AM:183:GLU:HA	8:AM:186:ASN:HD22	1.84	0.42
8:AO:1:MET:HE3	8:AO:2:ARG:O	2.18	0.42
10:B:101:LYS:HE3	10:B:101:LYS:HB3	1.95	0.42
11:B0:28:ALA:N	11:B1:369:HIS:HE1	2.18	0.42
11:B1:100:GLU:C	11:B1:100:GLU:CD	2.88	0.42
11:B1:204:ASN:O	11:B1:207:ARG:HG2	2.20	0.42
11:B4:17:TRP:CD2	11:B5:129:VAL:HG11	2.55	0.42
11:B4:85:LEU:HD21	11:B4:169:ARG:HB2	2.00	0.42
8:BC:147:SER:O	8:BC:151:SER:OG	2.35	0.42
9:BF:148:GLY:O	9:BF:152:ILE:HG12	2.20	0.42
8:BG:88:HIS:CD2	8:CG:284:GLU:HG2	2.55	0.42
8:BG:90:GLU:HG2	8:BG:121:ARG:NH1	2.34	0.42
8:BI:30:ILE:HD12	8:BI:61:HIS:CD2	2.52	0.42
9:BL:295:ASP:OD1	9:BL:298:ASN:N	2.53	0.42
9:BP:257:MET:HE3	9:BP:257:MET:HB3	1.73	0.42
12:C3:382:ILE:HA	12:C3:382:ILE:HD13	1.84	0.42
9:CB:140:GLY:HA3	9:CB:181:GLU:OE2	2.20	0.42
8:CC:3:GLU:OE2	8:CC:64:ARG:HD3	2.20	0.42
9:CD:41:ASP:OD2	40:a1:9:ARG:HG3	2.19	0.42
9:CD:253:LEU:O	9:CD:257:MET:N	2.52	0.42
9:CD:276:ARG:HD3	31:W:299:THR:HG23	2.02	0.42
9:CD:284:LEU:HD23	9:CD:284:LEU:O	2.20	0.42
9:CD:416:ASN:HA	9:CD:419:VAL:HG22	2.01	0.42
8:CG:267:PHE:CG	8:CG:388:TRP:HH2	2.38	0.42
8:CG:292:THR:HG21	8:CG:331:ALA:HB1	2.02	0.42
8:CG:385:ALA:HA	8:CG:388:TRP:HE3	1.84	0.42
9:CH:58:LYS:HE3	9:CH:58:LYS:HB2	1.76	0.42
9:CJ:318:ARG:HB3	9:CJ:358:PRO:HD3	2.02	0.42
8:CM:425:LEU:HD23	8:CM:425:LEU:HA	1.78	0.42
9:CN:11:GLN:HA	9:CN:72:THR:HG21	2.00	0.42
9:CN:189:VAL:HG13	9:CN:415:MET:CE	2.49	0.42
9:CP:336:LYS:HA	9:CP:336:LYS:HD3	1.80	0.42
14:D1:74:SER:OG	14:D2:328:GLU:OE1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:D3:162:ARG:NH1	14:D3:168:VAL:H	2.18	0.42
9:DB:184:ASN:O	9:DB:188:SER:OG	2.28	0.42
8:DC:370:LYS:HA	8:DC:370:LYS:HD2	1.89	0.42
9:DD:313:VAL:HG13	9:DD:367:PHE:HE1	1.85	0.42
9:DF:276:ARG:O	9:DF:279:GLN:HB3	2.20	0.42
8:DG:58:ALA:HA	31:X:418:PHE:HD2	1.85	0.42
8:DG:88:HIS:CE1	8:DG:90:GLU:HB3	2.55	0.42
9:DH:202:ILE:HD11	9:DH:207:LEU:HD11	2.01	0.42
8:DI:171:ILE:HD13	8:DI:171:ILE:HA	1.86	0.42
8:DK:260:VAL:O	9:DL:397:TRP:NE1	2.48	0.42
8:DQ:53:PHE:HA	8:DQ:62:VAL:O	2.19	0.42
15:E:201:LEU:HD11	15:E:266:GLN:OE1	2.20	0.42
9:EB:239:CYS:SG	9:EB:248:ALA:N	2.93	0.42
8:EC:49:PHE:CE2	8:EC:55:GLU:HG3	2.54	0.42
9:ED:286:VAL:CG2	9:ED:321:MET:HE3	2.48	0.42
8:EE:254:GLU:HA	9:EF:98:GLY:HA2	2.02	0.42
9:EF:54:ALA:HA	9:FF:283:ALA:HB2	2.00	0.42
8:EI:269:LEU:HD22	8:EI:303:VAL:HG21	2.01	0.42
9:EN:54:ALA:HA	9:FN:283:ALA:HB2	2.02	0.42
9:EN:164:MET:HE2	9:EN:164:MET:HA	2.01	0.42
9:EN:198:GLU:HB3	9:EN:266:PHE:HE2	1.84	0.42
15:F:66:TYR:CE2	15:F:138:CYS:HB3	2.54	0.42
15:F:255:LEU:HD12	15:F:255:LEU:HA	1.67	0.42
9:FB:112:LEU:HD23	9:FB:112:LEU:HA	1.92	0.42
9:FB:318:ARG:HD3	9:FB:358:PRO:HD3	2.02	0.42
9:FB:406:MET:HE3	9:FB:410:GLU:HB3	2.01	0.42
8:FE:328:VAL:HG21	8:FE:355:ILE:HD11	2.01	0.42
8:FG:231:ILE:O	8:FG:235:VAL:HG12	2.19	0.42
9:FH:72:THR:O	9:FH:75:SER:OG	2.31	0.42
8:FI:125:LEU:HD23	8:FI:125:LEU:HA	1.90	0.42
8:FI:263:PRO:HG3	9:FJ:396:HIS:CD2	2.55	0.42
8:FK:311:LYS:H	8:FK:382:THR:HG22	1.84	0.42
9:FL:279:GLN:H	9:FL:279:GLN:HG2	1.66	0.42
8:FM:1:MET:SD	8:FM:2:ARG:N	2.93	0.42
8:FM:332:ILE:HD13	8:FM:332:ILE:HA	1.86	0.42
9:GB:51:TYR:HB3	9:GB:59:TYR:HB3	2.01	0.42
8:GC:228:ASN:HA	8:GC:231:ILE:HG22	2.02	0.42
8:GK:98:ASP:OD1	8:GK:100:ALA:N	2.48	0.42
8:GK:137:ILE:HG22	8:GK:139:HIS:HD2	1.83	0.42
8:GK:259:LEU:HD12	8:GK:259:LEU:HA	1.93	0.42
8:HC:297:GLU:HG2	8:HC:299:ALA:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HC:304:LYS:HD3	8:HC:304:LYS:HA	1.84	0.42
8:HE:91:GLN:HA	8:HE:121:ARG:HH12	1.84	0.42
9:HF:19:LYS:HA	9:HF:19:LYS:HD3	1.92	0.42
9:HH:61:PRO:HD3	9:HH:84:ILE:HG12	2.02	0.42
8:HK:390:ARG:HG3	8:HK:391:LEU:N	2.34	0.42
8:HM:93:ILE:HD13	8:HM:117:LEU:HG	2.01	0.42
8:HM:346:TRP:HZ2	8:HM:435:VAL:HG13	1.84	0.42
9:HN:109:GLY:C	9:HN:113:VAL:HG13	2.44	0.42
9:HN:303:CYS:HB3	9:HN:380:ARG:NH2	2.34	0.42
8:HO:98:ASP:O	8:HO:105:ARG:NH1	2.53	0.42
8:HO:201:ALA:O	8:HO:268:PRO:HD2	2.20	0.42
17:I:276:TYR:OH	17:I:288:PHE:O	2.31	0.42
8:IA:88:HIS:N	8:IA:91:GLN:HE22	2.17	0.42
8:IA:317:MET:CG	8:IA:377:MET:HE1	2.48	0.42
9:IB:24:ILE:HD12	9:IB:50:TYR:CD2	2.55	0.42
9:IB:318:ARG:HD3	9:IB:358:PRO:N	2.34	0.42
8:IC:297:GLU:O	8:IC:301:GLN:NE2	2.45	0.42
9:ID:1:MET:HB2	9:ID:2:ARG:H	1.69	0.42
8:IG:341:ILE:HD13	8:IG:341:ILE:HA	1.90	0.42
8:IG:388:TRP:HH2	8:IG:432:TYR:CE1	2.37	0.42
9:IH:108:GLU:O	9:IH:111:GLU:HG2	2.19	0.42
8:II:119:LEU:HA	8:II:122:ILE:HG22	2.02	0.42
9:IJ:279:GLN:HE21	9:IJ:279:GLN:HB3	1.63	0.42
9:IJ:310:TYR:CE1	9:IJ:371:SER:HB2	2.55	0.42
8:IK:395:PHE:HE2	8:IK:422:ARG:HB2	1.83	0.42
9:IL:331:LEU:HD12	8:IM:177:VAL:HG12	2.02	0.42
9:IN:143:THR:OG1	52:IN:502:GDP:O1B	2.17	0.42
9:IN:374:ILE:HG23	9:IN:378:PHE:HE2	1.84	0.42
19:J4:218:THR:HG23	19:J4:221:SER:H	1.84	0.42
9:JB:164:MET:HE1	9:JB:196:THR:HA	2.02	0.42
8:JC:219:ILE:HB	8:JC:222:PRO:HG3	2.02	0.42
8:JG:5:ILE:HD13	8:JG:125:LEU:HG	2.02	0.42
9:JH:113:VAL:HA	9:JH:116:VAL:HG12	2.02	0.42
8:JI:395:PHE:CD2	8:JI:422:ARG:HD3	2.55	0.42
9:JJ:251:ARG:HD2	8:JK:105:ARG:NH1	2.35	0.42
9:JJ:252:LYS:HA	8:JK:100:ALA:HB1	2.01	0.42
9:JN:172:SER:OG	9:JN:175:VAL:O	2.38	0.42
8:JO:287:SER:O	8:JO:291:ILE:HG12	2.20	0.42
9:JP:245:GLN:OE1	9:JP:323:MET:HG3	2.19	0.42
9:JP:317:PHE:HB3	9:JP:321:MET:HE1	2.01	0.42
9:KB:202:ILE:HD13	9:KB:300:MET:SD	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KD:328:GLU:OE2	9:KD:329:GLN:NE2	2.52	0.42
8:KE:3:GLU:HA	8:KE:51:THR:HA	2.02	0.42
8:KI:338:LYS:NZ	8:KI:341:ILE:HG12	2.34	0.42
8:KM:51:THR:HG21	8:KM:243:ARG:HG2	2.02	0.42
8:KM:259:LEU:HD12	8:KM:259:LEU:HA	1.83	0.42
8:KM:277:SER:O	8:KM:281:ALA:N	2.53	0.42
9:KN:116:VAL:HG21	9:KN:151:LEU:HD21	2.00	0.42
9:KN:139:LEU:HD12	9:KN:170:VAL:HA	2.01	0.42
9:KP:189:VAL:HA	9:KP:192:LEU:HG	2.01	0.42
8:LE:241:SER:O	8:LE:249:ASN:ND2	2.53	0.42
8:LE:430:LYS:HE3	8:LE:430:LYS:HB3	1.81	0.42
9:LF:171:PRO:HB3	9:LF:181:GLU:CD	2.45	0.42
8:LI:153:LEU:O	8:LI:157:LEU:HB2	2.19	0.42
8:LI:164:LYS:HA	8:LI:164:LYS:HD3	1.91	0.42
9:LJ:388:MET:HE3	9:LJ:388:MET:HB2	1.93	0.42
8:LO:136:LEU:HB3	8:LO:138:PHE:CE1	2.55	0.42
22:M1:164:LEU:O	22:M1:168:SER:OG	2.30	0.42
8:MC:128:LEU:HD23	8:MC:128:LEU:HA	1.94	0.42
8:MC:339:ARG:H	8:MC:339:ARG:HG2	1.72	0.42
9:MD:11:GLN:O	9:MD:15:GLN:HG2	2.20	0.42
8:MG:326:LYS:HE2	9:MH:219:THR:HA	2.01	0.42
8:MI:152:LEU:HA	8:MI:155:GLU:OE2	2.19	0.42
9:ML:178:THR:O	9:ML:181:GLU:HB2	2.20	0.42
8:MM:174:ALA:HB3	8:MM:177:VAL:O	2.20	0.42
9:NF:164:MET:HE3	9:NF:164:MET:HB3	1.82	0.42
8:NG:188:ILE:HG12	8:NG:391:LEU:HD11	2.02	0.42
8:NG:239:THR:OG1	8:NG:243:ARG:NH1	2.52	0.42
8:NG:422:ARG:C	8:NG:422:ARG:HD3	2.45	0.42
9:NH:372:THR:HA	9:NH:422:TYR:CE1	2.50	0.42
9:NJ:262:ARG:HH21	9:NJ:418:LEU:HB2	1.84	0.42
9:NN:28:HIS:ND1	9:NN:47:ILE:HG13	2.35	0.42
9:NN:313:VAL:HG13	9:NN:349:VAL:HA	2.02	0.42
9:NN:328:GLU:O	9:NN:332:ASN:N	2.44	0.42
9:NN:367:PHE:O	9:NN:368:ILE:HD13	2.20	0.42
8:NO:264:ARG:HH12	8:NO:428:LEU:HA	1.85	0.42
9:NP:270:PHE:HB3	9:NP:273:LEU:HD21	2.02	0.42
9:NP:278:SER:HA	9:NP:281:TYR:CE1	2.54	0.42
25:O5:446:THR:HB	25:O5:448:MET:HE2	2.02	0.42
25:O5:498:VAL:O	25:O5:501:HIS:HB2	2.20	0.42
25:O6:22:LYS:NZ	25:O6:48:GLY:HA3	2.34	0.42
17:O9:85:TYR:HE2	11:R2:219:ASP:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OB:63:ALA:HB3	9:OB:85:PHE:CE1	2.54	0.42
9:OD:253:LEU:HB2	9:OD:257:MET:HE1	2.01	0.42
8:OE:324:VAL:HG12	8:OE:326:LYS:H	1.83	0.42
9:OJ:187:LEU:HD11	9:OJ:408:PHE:HE1	1.85	0.42
9:OJ:372:THR:HA	9:OJ:422:TYR:CE1	2.55	0.42
9:OJ:372:THR:HG21	9:OJ:426:GLN:CD	2.44	0.42
8:OK:387:ALA:HA	8:OK:390:ARG:HG2	2.01	0.42
9:OL:73:MET:HE3	9:OL:77:ARG:HE	1.84	0.42
9:OL:156:ARG:O	9:OL:156:ARG:NH1	2.46	0.42
8:OM:89:PRO:HB2	8:PM:280:LYS:HZ2	1.84	0.42
27:P3:72:ARG:NH2	27:P3:73:ARG:HG2	2.35	0.42
27:P5:52:GLU:OE2	25:V:326:ALA:N	2.40	0.42
27:P5:172:TRP:CD1	11:R3:16:ASP:HB3	2.54	0.42
8:PG:288:VAL:HG21	8:PG:323:VAL:HG23	2.01	0.42
9:PH:189:VAL:HG22	9:PH:415:MET:HE1	2.01	0.42
8:PI:11:GLN:HB3	50:PI:501:GTP:PA	2.60	0.42
8:PM:83:TYR:HD1	8:PM:86:LEU:HD13	1.84	0.42
8:PM:102:ASN:ND2	8:PM:105:ARG:HG3	2.35	0.42
8:PM:331:ALA:O	8:PM:334:THR:OG1	2.34	0.42
9:PP:328:GLU:HA	9:PP:331:LEU:HD23	2.02	0.42
23:Q:299:GLN:O	23:Q:303:GLU:HG2	2.20	0.42
9:QB:131:GLN:HE22	9:QB:250:LEU:H	1.67	0.42
9:QB:257:MET:HB3	9:QB:266:PHE:CZ	2.55	0.42
9:QD:150:LEU:O	9:QD:154:LYS:HG2	2.18	0.42
8:QE:244:PHE:HE2	8:QE:357:TYR:HB2	1.80	0.42
8:QE:404:PHE:CE2	8:QE:408:TYR:CE1	3.08	0.42
8:QG:104:ALA:HA	8:QG:413:MET:HE3	2.00	0.42
8:QG:270:ALA:C	8:QG:302:MET:HE1	2.44	0.42
9:QH:231:ALA:HB1	9:QH:270:PHE:CZ	2.55	0.42
8:QO:167:LEU:HB3	8:QO:202:PHE:CE1	2.54	0.42
8:QO:302:MET:N	8:QO:302:MET:SD	2.92	0.42
29:R:107:ARG:HG2	29:R:108:ARG:O	2.20	0.42
11:R3:403:LYS:HB3	11:R3:403:LYS:HE3	1.77	0.42
9:RD:69:GLU:HG2	9:RD:71:GLY:H	1.84	0.42
9:RD:211:CYS:HB3	9:RD:220:PRO:HG3	2.02	0.42
9:RD:419:VAL:O	9:RD:423:GLN:N	2.43	0.42
8:RG:239:THR:HG22	8:RG:243:ARG:HG3	2.01	0.42
8:RG:262:TYR:OH	9:RH:391:ARG:O	2.36	0.42
9:RH:363:MET:HA	9:RH:363:MET:HE2	2.01	0.42
8:RI:136:LEU:HG	8:RI:138:PHE:CE1	2.55	0.42
9:RJ:322:SER:HB3	8:RK:221:ARG:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RK:191:THR:HA	8:RK:194:THR:HG22	2.02	0.42
8:RK:280:LYS:HA	8:RK:280:LYS:HD3	1.78	0.42
8:RK:313:MET:HE3	8:RK:313:MET:HB3	1.92	0.42
9:RL:12:CYS:O	9:RL:16:ILE:HG12	2.19	0.42
9:RL:312:THR:O	9:RL:370:ASN:N	2.50	0.42
8:RO:191:THR:HA	8:RO:194:THR:HG22	2.02	0.42
9:RP:270:PHE:HD2	9:RP:273:LEU:HD21	1.85	0.42
29:S:276:MET:HE1	29:S:281:LEU:HD23	2.01	0.42
12:S0:202:ARG:HD2	12:S0:202:ARG:HA	1.89	0.42
12:S0:473:CYS:O	12:S0:477:ARG:HG3	2.20	0.42
12:S2:432:GLN:NE2	12:S2:435:GLN:OE1	2.53	0.42
12:S3:187:GLU:HB3	12:S3:485:ARG:HG3	2.01	0.42
12:S8:177:ILE:HD12	12:S8:322:ARG:HD2	2.02	0.42
12:S8:260:ASP:HB3	12:S9:410:GLU:OE1	2.20	0.42
12:S9:414:ASP:N	12:S9:414:ASP:OD1	2.52	0.42
8:SA:132:LEU:HG	8:SA:164:LYS:HD2	2.02	0.42
8:SE:395:PHE:CD2	8:SE:422:ARG:HD3	2.55	0.42
9:SF:118:ASP:O	9:SF:122:LYS:HG2	2.20	0.42
9:SH:395:LEU:C	9:SH:399:THR:HG1	2.27	0.42
8:SK:91:GLN:HE22	8:SK:125:LEU:HD11	1.83	0.42
8:SK:191:THR:HA	8:SK:194:THR:HG22	2.02	0.42
8:SM:91:GLN:HE22	8:SM:125:LEU:HD11	1.85	0.42
8:SM:186:ASN:O	8:SM:190:THR:OG1	2.29	0.42
25:T:97:LEU:HD22	25:T:190:THR:HG22	2.02	0.42
14:T3:366:VAL:HG22	14:T3:367:GLU:H	1.85	0.42
9:TB:61:PRO:HG2	9:TB:85:PHE:CD1	2.55	0.42
9:TF:317:PHE:HD2	9:TF:321:MET:HE3	1.84	0.42
9:TF:321:MET:N	9:TF:321:MET:SD	2.93	0.42
9:TF:321:MET:HG3	9:TF:363:MET:HE2	2.00	0.42
8:TG:223:THR:HG23	8:TG:225:THR:HG22	2.01	0.42
8:TG:275:VAL:HG12	8:TG:368:LEU:HD21	2.01	0.42
8:TG:339:ARG:HD3	8:TG:339:ARG:HA	1.81	0.42
9:TH:133:PHE:HB2	9:TH:164:MET:SD	2.59	0.42
9:TH:299:MET:HE1	9:TH:304:ASP:HA	2.02	0.42
9:TJ:309:ARG:H	9:TJ:372:THR:HB	1.84	0.42
8:TM:125:LEU:HA	8:TM:125:LEU:HD23	1.83	0.42
25:U:229:PHE:HZ	25:U:238:PHE:HE2	1.68	0.42
30:U0:453:HIS:CG	30:U6:401:ARG:HD2	2.55	0.42
30:U4:301:ASN:O	30:U4:305:ARG:HG2	2.19	0.42
30:U5:125:GLN:HG2	30:V1:158:TYR:CG	2.54	0.42
30:U5:339:THR:HB	30:U5:473:ARG:HH22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U6:409:ARG:HA	30:U6:409:ARG:HD3	1.76	0.42
30:U7:328:LEU:O	30:U7:332:MET:HE3	2.19	0.42
8:UC:21:TRP:HA	8:UC:24:TYR:CD1	2.55	0.42
8:UE:217:LEU:HD11	8:UE:368:LEU:HD23	2.01	0.42
9:UH:204:ASN:O	9:UH:208:TYR:N	2.46	0.42
8:UI:416:GLY:O	8:UI:420:GLU:HG2	2.20	0.42
9:UJ:54:ALA:HA	9:VJ:283:ALA:HB2	2.02	0.42
8:UK:317:MET:HE2	8:UK:317:MET:HA	2.01	0.42
8:UM:2:ARG:NH2	9:UN:69:GLU:HG3	2.35	0.42
8:UM:68:VAL:HG23	8:UM:93:ILE:HB	2.00	0.42
8:UM:328:VAL:HG21	8:UM:355:ILE:HD11	2.00	0.42
8:UO:229:ARG:NH1	8:UO:365:GLY:O	2.53	0.42
30:V2:391:MET:HA	30:V3:277:ILE:HD11	2.00	0.42
30:V3:454:GLU:HA	30:V3:457:ILE:HG12	2.01	0.42
30:V6:371:ALA:HB3	30:V6:441:LEU:HD13	2.01	0.42
30:V7:277:ILE:HG12	30:V7:280:PHE:CE2	2.55	0.42
30:V8:217:ARG:HB3	30:V8:335:GLN:NE2	2.34	0.42
30:V8:269:ASN:CG	30:V8:270:LEU:N	2.77	0.42
9:VB:142:GLY:N	52:VB:502:GDP:O3B	2.38	0.42
9:VB:182:PRO:O	9:VB:186:THR:OG1	2.34	0.42
8:VC:33:ASP:OD1	8:VC:34:GLY:N	2.53	0.42
9:VD:86:ARG:HA	9:WD:281:TYR:CD2	2.55	0.42
9:VD:303:CYS:HB2	9:VD:373:ALA:HB1	2.02	0.42
9:VH:276:ARG:HH21	39:b:511:ARG:HH12	1.67	0.42
9:VH:403:MET:HE2	9:VH:408:PHE:CZ	2.55	0.42
8:VI:17:GLY:HA3	8:VI:67:PHE:CE2	2.55	0.42
8:VI:21:TRP:CZ3	8:VI:63:PRO:HB3	2.54	0.42
9:VL:8:GLN:HE21	9:VL:14:ASN:HA	1.84	0.42
31:W:66:THR:OG1	31:W:67:ASP:N	2.52	0.42
30:W0:198:ARG:HB2	30:W0:198:ARG:HH11	1.84	0.42
30:W0:433:ARG:HA	30:W0:436:GLU:CD	2.44	0.42
30:W2:230:ARG:O	30:W2:234:LYS:HG2	2.19	0.42
30:W4:335:GLN:O	30:W4:339:THR:OG1	2.34	0.42
30:W7:217:ARG:HB2	30:W7:217:ARG:NH1	2.34	0.42
8:WA:255:PHE:O	8:WA:259:LEU:HB2	2.20	0.42
9:WB:326:VAL:O	9:WB:330:MET:HB2	2.20	0.42
9:WH:215:LEU:HB3	9:WH:217:LEU:HG	2.01	0.42
8:WK:105:ARG:HG3	8:WK:411:GLU:HG3	2.01	0.42
9:WN:171:PRO:HB2	9:WN:181:GLU:OE2	2.20	0.42
33:X4:156:GLN:NE2	33:X4:158:GLN:O	2.50	0.42
34:X6:96:ASP:HA	34:X6:142:LEU:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XB:26:ASP:HB2	35:XB:63:ALA:HA	2.01	0.42
35:XF:82:ASN:HB3	35:XF:127:ASP:HA	2.01	0.42
35:XH:36:ARG:HD3	37:YG:195:ILE:HG12	2.00	0.42
36:Y2:197:ALA:O	36:Y2:199:GLN:NE2	2.53	0.42
37:YG:138:LYS:HE3	37:YG:142:ASN:HD21	1.85	0.42
39:a:204:HIS:HB2	39:a:207:ARG:HH22	1.85	0.42
41:b1:458:TYR:CE2	41:b1:462:ARG:HD2	2.55	0.42
41:b3:383:LEU:HB2	41:b3:386:ASN:ND2	2.34	0.42
41:b4:172:LEU:HG	41:b4:206:LEU:HB3	2.01	0.42
41:b5:463:LEU:O	41:b5:467:GLN:HG2	2.20	0.42
39:c:124:LEU:O	39:c:127:ARG:HG3	2.19	0.42
42:e:230:LEU:HD23	42:e:230:LEU:HA	1.77	0.42
42:g:109:LEU:HD23	42:g:109:LEU:HA	1.90	0.42
42:g:496:ASN:OD1	42:g:496:ASN:N	2.53	0.42
44:h1:50:GLY:C	44:h1:52:ILE:H	2.28	0.42
44:h1:85:GLU:OE1	44:h1:95:ARG:NH1	2.52	0.42
44:h2:102:ARG:HD3	44:h2:102:ARG:O	2.19	0.42
44:h4:45:PHE:HA	44:h4:94:GLU:O	2.19	0.42
44:h4:129:SER:HA	44:h4:132:ILE:HG22	2.01	0.42
46:i2:1358:ILE:HD12	46:i2:1358:ILE:HA	1.80	0.42
46:i3:1427:LYS:HB3	46:i3:1427:LYS:HE2	1.74	0.42
46:i4:1462:ASP:OD2	46:i4:1467:GLY:N	2.46	0.42
45:n:50:LEU:O	45:n:53:VAL:HG22	2.20	0.42
47:p:212:HIS:O	47:p:216:ILE:HG12	2.19	0.42
47:p:305:ARG:HD3	47:p:308:LYS:HE2	2.02	0.42
47:p:363:LYS:HD2	47:p:363:LYS:HA	1.78	0.42
48:q:88:ASN:O	48:q:92:ILE:HG12	2.19	0.42
1:0:37:SER:HB3	8:JO:290:GLU:OE1	2.18	0.42
2:2:320:PRO:C	8:IK:221:ARG:HH12	2.27	0.42
2:2:503:ARG:HH12	9:HP:40:SER:N	2.18	0.42
3:3:53:SER:HB3	8:KK:337:THR:HG21	2.01	0.42
3:3:94:THR:HA	3:3:97:ARG:NH1	2.35	0.42
3:4:383:ARG:HG2	3:4:386:ARG:HH21	1.85	0.42
4:5:46:LEU:HB2	4:5:55:GLU:HB2	2.02	0.42
7:A5:194:ASN:OD1	11:R4:412:THR:O	2.38	0.42
8:AA:167:LEU:HD11	8:AA:252:LEU:HD23	2.00	0.42
9:AB:78:SER:OG	25:T:147:LYS:O	2.31	0.42
8:AE:313:MET:HB3	8:AE:346:TRP:CH2	2.54	0.42
9:AF:182:PRO:O	9:AF:186:THR:OG1	2.31	0.42
8:AI:269:LEU:HD11	8:AI:384:ILE:HD13	2.01	0.42
9:AN:103:LYS:HB3	9:AN:103:LYS:HE2	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AO:83:TYR:HB3	8:AO:87:PHE:HE1	1.85	0.42
9:AP:87:PRO:HD3	9:BP:281:TYR:HD2	1.85	0.42
9:AP:167:PHE:HD2	9:AP:167:PHE:HA	1.71	0.42
11:B1:180:MET:O	11:B1:184:GLU:HG2	2.19	0.42
11:B2:162:LEU:HD23	11:B2:162:LEU:HA	1.90	0.42
11:B2:355:LYS:HE2	11:B2:355:LYS:HB2	1.74	0.42
11:B4:324:ARG:O	11:B4:329:LEU:HD13	2.20	0.42
9:BB:21:TRP:CZ2	9:BB:63:ALA:HB2	2.55	0.42
8:BG:157:LEU:HD12	8:BG:157:LEU:HA	1.83	0.42
9:BJ:132:GLY:HA2	9:BJ:162:ARG:HB3	2.02	0.42
9:BJ:270:PHE:HD1	9:BJ:273:LEU:HG	1.84	0.42
8:BM:88:HIS:HD2	8:CM:283:HIS:HB2	1.85	0.42
9:BP:372:THR:O	9:BP:375:GLN:HG3	2.20	0.42
12:C0:124:THR:HG23	12:C1:382:ILE:HD11	2.02	0.42
12:C0:244:LEU:HD23	12:C0:244:LEU:HA	1.91	0.42
12:C1:90:PHE:HB2	17:O9:183:ARG:NH2	2.35	0.42
12:C1:274:LEU:HD23	12:C1:274:LEU:HA	1.86	0.42
12:C1:369:LEU:HD23	12:C1:369:LEU:HA	1.83	0.42
8:CC:201:ALA:HB1	8:CC:203:MET:SD	2.60	0.42
8:CG:262:TYR:OH	9:CH:391:ARG:O	2.31	0.42
8:CG:417:GLU:H	8:CG:417:GLU:CD	2.28	0.42
8:CI:191:THR:HA	8:CI:194:THR:HG22	2.01	0.42
8:CK:209:ILE:HA	8:CK:212:ILE:HG22	2.02	0.42
8:CM:88:HIS:CE1	8:CM:90:GLU:HB3	2.55	0.42
8:CO:105:ARG:HH21	8:CO:110:ILE:HD11	1.85	0.42
14:D3:391:LEU:HD23	14:D3:391:LEU:HA	1.87	0.42
14:D4:158:CYS:O	14:D4:425:ILE:HD11	2.20	0.42
14:D5:401:ALA:O	14:D5:405:LEU:HG	2.20	0.42
9:DB:361:LEU:HD12	9:DB:361:LEU:HA	1.89	0.42
9:DF:1:MET:HE2	9:DF:1:MET:HB2	1.90	0.42
9:DJ:44:LEU:O	9:DJ:44:LEU:HD23	2.20	0.42
9:DJ:122:LYS:HD3	9:DJ:122:LYS:HA	1.82	0.42
8:DK:21:TRP:CZ3	8:DK:63:PRO:HB3	2.54	0.42
8:DK:163:LYS:HA	8:DK:163:LYS:HD2	1.86	0.42
9:DL:251:ARG:HD2	8:DM:105:ARG:NH1	2.35	0.42
9:DL:325:GLU:O	9:DL:329:GLN:HG2	2.19	0.42
8:DM:251:ASP:HB3	8:DM:254:GLU:HG3	2.00	0.42
8:DM:316:CYS:HB3	8:DM:378:LEU:HB2	2.01	0.42
8:DQ:5:ILE:HD12	8:DQ:135:PHE:CE1	2.55	0.42
9:EB:72:THR:O	9:EB:75:SER:OG	2.34	0.42
9:EB:78:SER:OG	31:W:482:LYS:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EB:101:TRP:NE1	9:EB:145:SER:O	2.53	0.42
9:EB:165:ASN:HB3	9:EB:200:TYR:HE2	1.84	0.42
9:EF:163:ILE:HD11	9:EF:251:ARG:HB2	2.02	0.42
9:EL:163:ILE:H	9:EL:163:ILE:HG13	1.63	0.42
8:EM:234:ILE:HD11	8:EM:272:TYR:HB2	2.02	0.42
8:EO:88:HIS:ND1	8:EO:90:GLU:HB3	2.34	0.42
8:EO:311:LYS:HD3	8:EO:344:VAL:HG12	2.01	0.42
8:FA:6:SER:HB3	8:FA:8:HIS:CD2	2.55	0.42
8:FA:6:SER:HB3	8:FA:8:HIS:NE2	2.34	0.42
8:FG:102:ASN:ND2	8:FG:105:ARG:HG3	2.34	0.42
8:FG:338:LYS:HE2	8:FG:340:THR:HB	2.00	0.42
9:FH:16:ILE:O	9:FH:20:PHE:N	2.46	0.42
9:FJ:267:MET:HB3	9:FJ:299:MET:CE	2.50	0.42
9:FL:198:GLU:HA	9:FL:264:HIS:HB2	2.01	0.42
8:FM:258:ASN:OD1	9:FN:180:VAL:N	2.50	0.42
8:FM:326:LYS:NZ	9:FN:212:PHE:HB2	2.34	0.42
9:FN:295:ASP:O	9:FN:299:MET:HE3	2.20	0.42
16:G:85:GLU:OE1	8:GK:46:ASP:HB2	2.19	0.42
9:GB:361:LEU:HD12	9:GB:361:LEU:HA	1.81	0.42
9:GD:7:LEU:HD22	9:GD:151:LEU:HD13	2.01	0.42
9:GD:274:THR:HB	9:GD:278:SER:HB2	2.01	0.42
8:GE:88:HIS:HE1	8:HE:280:LYS:HG3	1.85	0.42
8:GE:154:MET:O	8:GE:158:SER:N	2.48	0.42
8:GG:124:LYS:HE2	49:y:157:SER:HB2	2.01	0.42
8:GG:419:SER:O	8:GG:423:GLU:HG2	2.20	0.42
9:GJ:10:GLY:O	9:GJ:14:ASN:ND2	2.52	0.42
8:GM:58:ALA:HB3	8:GM:60:LYS:HE2	2.01	0.42
8:GM:125:LEU:HD23	8:GM:125:LEU:HA	1.80	0.42
9:GN:173:PRO:HG3	9:GN:380:ARG:HH11	1.85	0.42
8:GO:1:MET:HE3	8:GO:50:ASN:HB3	2.02	0.42
9:HB:290:THR:HG21	9:HB:329:GLN:HB3	2.02	0.42
8:HC:5:ILE:O	8:HC:136:LEU:HD23	2.19	0.42
8:HC:248:LEU:HD21	9:HD:222:TYR:CE2	2.55	0.42
8:HE:315:CYS:O	8:HE:351:PHE:HA	2.19	0.42
9:HH:97:ALA:HA	9:HH:103:LYS:HE2	2.02	0.42
8:HI:153:LEU:O	8:HI:157:LEU:HB2	2.19	0.42
8:HI:247:ALA:HB3	8:HI:355:ILE:HG23	2.02	0.42
8:HI:276:ILE:HG13	8:HI:280:LYS:HB2	2.02	0.42
9:HJ:33:THR:HG22	9:HJ:58:LYS:HE3	2.01	0.42
9:HJ:150:LEU:HD21	9:HJ:154:LYS:HE2	2.01	0.42
8:HK:260:VAL:HB	9:HL:397:TRP:CH2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HL:296:ALA:HB3	9:HL:306:ARG:HH22	1.85	0.42
9:IB:285:THR:OG1	9:IB:287:PRO:HD2	2.19	0.42
8:IC:125:LEU:HD13	8:IC:125:LEU:HA	1.92	0.42
8:IC:154:MET:SD	8:IC:197:HIS:HB3	2.59	0.42
9:ID:249:ASP:H	9:ID:252:LYS:HB2	1.84	0.42
9:IF:3:GLU:O	9:IF:131:GLN:N	2.48	0.42
9:IF:25:SER:O	9:IF:29:GLY:N	2.52	0.42
9:IF:34:GLY:HA3	9:IF:58:LYS:HE3	2.01	0.42
8:II:6:SER:O	8:II:65:ALA:HA	2.20	0.42
8:II:132:LEU:HD23	8:II:132:LEU:HA	1.83	0.42
9:IJ:331:LEU:HD21	8:IK:176:GLN:HG2	2.02	0.42
8:IO:85:GLN:O	9:JP:281:TYR:OH	2.28	0.42
8:IO:286:LEU:HD23	8:IO:286:LEU:HA	1.88	0.42
9:IP:39:ASP:HA	4:j1:308:LYS:HE3	2.01	0.42
19:J1:193:GLN:HA	19:J1:196:LYS:HD2	2.01	0.42
19:J4:38:VAL:HA	19:J4:58:PHE:CE2	2.54	0.42
8:JC:11:GLN:HG3	8:JC:74:VAL:HG21	2.02	0.42
8:JC:422:ARG:NH1	8:JC:426:ALA:HB2	2.35	0.42
9:JD:1:MET:HG3	9:JD:2:ARG:H	1.83	0.42
9:JD:21:TRP:CZ3	9:JD:61:PRO:HB3	2.55	0.42
9:JD:123:GLU:O	9:JD:126:SER:OG	2.31	0.42
9:JD:322:SER:HB3	8:JE:221:ARG:NH2	2.34	0.42
8:JE:195:LEU:HA	8:JE:195:LEU:HD12	1.83	0.42
9:JF:257:MET:HB3	9:JF:266:PHE:CZ	2.55	0.42
9:JH:8:GLN:HB3	9:JH:65:LEU:HA	2.01	0.42
9:JH:155:ILE:HD13	9:JH:155:ILE:HA	1.87	0.42
9:JH:267:MET:HE3	9:JH:299:MET:SD	2.60	0.42
8:JI:107:HIS:CE1	8:JI:152:LEU:HG	2.55	0.42
9:JJ:278:SER:HA	9:JJ:281:TYR:CE1	2.55	0.42
9:JN:245:GLN:HB2	9:JN:353:VAL:HG11	2.02	0.42
9:JN:267:MET:HG2	9:JN:301:ALA:HB3	2.01	0.42
9:JN:404:ASP:OD1	9:JN:404:ASP:N	2.47	0.42
8:JO:227:LEU:HD12	8:JO:227:LEU:H	1.84	0.42
8:JQ:276:ILE:HD12	8:JQ:276:ILE:HA	1.91	0.42
17:K:250:ASN:HD22	17:K:250:ASN:HA	1.69	0.42
20:K1:54:PRO:HG2	20:K1:55:MET:HG3	2.01	0.42
8:KA:153:LEU:O	8:KA:157:LEU:N	2.44	0.42
8:KA:277:SER:O	8:KA:281:ALA:N	2.50	0.42
8:KC:188:ILE:HD11	8:KC:391:LEU:HG	2.02	0.42
8:KC:231:ILE:HA	8:KC:234:ILE:HD12	2.01	0.42
8:KE:264:ARG:NH2	44:h2:129:SER:OG	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KH:181:GLU:HA	9:KH:184:ASN:ND2	2.35	0.42
9:KH:293:MET:HE2	9:KH:367:PHE:HB2	2.02	0.42
8:KI:171:ILE:HD13	8:KI:171:ILE:HA	1.88	0.42
9:KJ:68:LEU:HD23	9:KJ:68:LEU:HA	1.90	0.42
8:KK:103:TYR:N	8:KK:186:ASN:OD1	2.52	0.42
8:KM:25:CYS:HA	8:KM:30:ILE:HG12	2.02	0.42
8:KM:103:TYR:N	8:KM:186:ASN:OD1	2.53	0.42
8:KM:252:LEU:HA	8:KM:255:PHE:CE2	2.55	0.42
9:KN:5:VAL:HG22	9:KN:62:ARG:HD2	2.00	0.42
9:KN:266:PHE:HD1	9:KN:370:ASN:HB2	1.85	0.42
8:KO:53:PHE:HB3	8:KO:61:HIS:HB3	2.00	0.42
9:LB:139:LEU:HA	9:LB:145:SER:HB2	2.02	0.42
9:LB:286:VAL:HG22	9:LB:363:MET:HE1	2.01	0.42
9:LB:374:ILE:HG13	9:LB:378:PHE:CE2	2.55	0.42
8:LC:201:ALA:O	8:LC:268:PRO:HD2	2.20	0.42
9:LD:8:GLN:NE2	9:LD:17:GLY:HA3	2.32	0.42
9:LD:133:PHE:CE2	9:LD:155:ILE:HD11	2.55	0.42
8:LK:7:ILE:HG21	8:LK:153:LEU:HD21	2.01	0.42
9:LL:379:LYS:HA	41:b4:489:PRO:HG3	2.01	0.42
9:LN:416:ASN:HA	9:LN:419:VAL:HG22	2.01	0.42
9:LP:309:ARG:NH2	9:LP:339:SER:O	2.53	0.42
8:MA:138:PHE:CD1	8:MA:169:PHE:HB2	2.55	0.42
9:MD:130:LEU:O	9:MD:162:ARG:NH1	2.53	0.42
8:MG:153:LEU:O	8:MG:157:LEU:HB2	2.20	0.42
8:MI:298:PRO:HG3	8:MI:308:ARG:NH2	2.35	0.42
8:MK:288:VAL:HG13	8:MK:319:TYR:CE1	2.55	0.42
9:MN:118:ASP:HA	37:YG:28:VAL:HG11	2.02	0.42
8:MO:125:LEU:HD23	8:MO:125:LEU:HA	1.89	0.42
8:MO:346:TRP:HZ2	8:MO:435:VAL:HG13	1.85	0.42
9:MP:123:GLU:O	9:MP:126:SER:OG	2.32	0.42
17:N:13:GLU:N	17:N:14:PRO:CD	2.83	0.42
8:NA:101:ASN:HA	8:NA:144:GLY:H	1.85	0.42
8:NA:318:LEU:HD23	8:NA:318:LEU:HA	1.93	0.42
8:NC:168:GLU:OE1	8:NC:170:ALA:HB2	2.19	0.42
8:NG:2:ARG:HH22	9:NH:71:GLY:HA3	1.85	0.42
9:NH:371:SER:O	9:NH:422:TYR:OH	2.26	0.42
8:NK:367:ASP:OD1	8:NK:367:ASP:N	2.52	0.42
9:NL:173:PRO:HG3	9:NL:380:ARG:HD3	2.01	0.42
9:NN:30:ILE:HG13	9:NN:51:TYR:CE2	2.55	0.42
8:OA:5:ILE:HG22	8:OA:64:ARG:HB2	2.01	0.42
8:OE:111:GLY:O	8:OE:115:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OF:20:PHE:CE1	9:OF:230:SER:HA	2.54	0.42
8:OG:21:TRP:CZ3	8:OG:63:PRO:HB3	2.55	0.42
8:OG:419:SER:OG	8:OG:420:GLU:OE2	2.38	0.42
9:OJ:20:PHE:CE2	9:OJ:233:MET:HE2	2.54	0.42
9:OL:167:PHE:CD2	9:OL:233:MET:SD	3.13	0.42
9:OL:294:PHE:HB3	36:Y5:238:PHE:HD1	1.85	0.42
9:ON:305:PRO:HA	9:ON:373:ALA:HB2	2.02	0.42
8:OO:293:ASN:O	8:OO:297:GLU:HG3	2.19	0.42
9:OP:230:SER:O	9:OP:234:SER:OG	2.29	0.42
23:P:135:GLY:HA2	23:P:136:PRO:HD3	1.91	0.42
26:P1:59:ALA:O	26:P1:62:LYS:N	2.52	0.42
27:P3:141:GLN:HG2	27:P3:148:LYS:CG	2.48	0.42
9:PB:156:ARG:NH1	9:PB:197:ASP:OD1	2.49	0.42
8:PC:102:ASN:ND2	8:PC:105:ARG:HG3	2.35	0.42
8:PC:234:ILE:O	8:PC:238:ILE:HG12	2.20	0.42
9:PD:189:VAL:HA	9:PD:192:LEU:HD23	2.02	0.42
9:PD:249:ASP:H	9:PD:252:LYS:HB2	1.84	0.42
9:PD:310:TYR:OH	9:PD:369:GLY:HA3	2.20	0.42
9:PD:372:THR:HG21	9:PD:426:GLN:CD	2.45	0.42
9:PH:347:ASN:ND2	9:PH:347:ASN:O	2.53	0.42
8:PI:203:MET:HE1	8:PI:303:VAL:HG13	2.02	0.42
9:PJ:170:VAL:HG11	9:PJ:377:LEU:HD11	2.01	0.42
9:PL:87:PRO:HD3	9:QL:281:TYR:CE2	2.55	0.42
8:PO:7:ILE:HA	8:PO:66:VAL:HG13	2.02	0.42
8:PO:370:LYS:HE2	8:PO:370:LYS:HB2	1.91	0.42
9:PP:202:ILE:HG23	9:PP:300:MET:HB3	2.00	0.42
28:Q2:126:GLN:NE2	28:Q2:133:ARG:HD2	2.35	0.42
28:Q4:11:PRO:HB3	12:S0:289:ARG:NH2	2.34	0.42
9:QB:8:GLN:HG2	9:QB:14:ASN:HA	2.02	0.42
9:QB:325:GLU:OE1	9:QB:325:GLU:N	2.53	0.42
9:QD:209:ASP:O	9:QD:213:ARG:HG2	2.20	0.42
8:QE:250:VAL:HG13	8:QE:254:GLU:HB2	2.00	0.42
8:QE:328:VAL:HG21	8:QE:355:ILE:HD11	2.02	0.42
8:QG:202:PHE:CE1	8:QG:378:LEU:HD22	2.55	0.42
8:QI:111:GLY:O	8:QI:115:VAL:HG13	2.20	0.42
8:QM:179:THR:OG1	50:QM:501:GTP:O3'	2.25	0.42
8:QM:339:ARG:NH2	8:QM:342:GLN:HG2	2.35	0.42
9:QN:226:ASN:O	9:QN:230:SER:OG	2.36	0.42
8:QO:201:ALA:O	8:QO:268:PRO:HD2	2.19	0.42
9:QP:146:GLY:O	9:QP:149:THR:OG1	2.31	0.42
11:R0:126:ILE:HG12	11:R1:20:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R2:117:LEU:HA	11:R2:117:LEU:HD23	1.79	0.42
11:R3:327:VAL:HG23	11:R3:328:GLU:OE2	2.20	0.42
9:RD:74:ASP:OD1	9:RD:77:ARG:NH2	2.51	0.42
9:RD:363:MET:HA	9:RD:363:MET:HE3	2.00	0.42
9:RF:20:PHE:CD1	9:RF:233:MET:HE1	2.53	0.42
9:RF:293:MET:HE1	9:RF:294:PHE:CZ	2.54	0.42
8:RK:70:LEU:HD23	8:RK:70:LEU:HA	1.90	0.42
8:RK:75:VAL:HG11	8:RK:92:LEU:HB3	2.01	0.42
8:RK:209:ILE:H	8:RK:209:ILE:HG13	1.68	0.42
8:RK:264:ARG:HH12	8:RK:428:LEU:HD12	1.85	0.42
8:RM:319:TYR:CE2	8:RM:353:VAL:HG13	2.54	0.42
29:S:301:GLU:HG3	38:Z1:128:PHE:HE2	1.83	0.42
12:S0:168:ILE:HA	12:S0:171:THR:HG22	2.01	0.42
12:S2:172:ASN:OD1	12:S2:173:ALA:N	2.53	0.42
12:S2:470:GLN:O	12:S2:474:MET:HE3	2.18	0.42
12:S3:373:PHE:HB2	14:T2:17:ILE:HD12	2.02	0.42
12:S5:141:HIS:CE1	12:S6:419:ARG:CZ	3.02	0.42
12:S5:343:VAL:HG11	12:S5:477:ARG:HH12	1.85	0.42
12:S8:94:TYR:HB3	12:S8:98:ASP:OD1	2.20	0.42
9:SB:52:ASN:HB2	9:SB:60:VAL:HG23	2.01	0.42
9:SD:72:THR:O	9:SD:75:SER:OG	2.32	0.42
9:SD:267:MET:HE1	9:SD:367:PHE:HE2	1.84	0.42
8:SE:7:ILE:HB	8:SE:137:ILE:HG23	2.00	0.42
8:SE:35:GLN:C	8:SE:36:MET:HE2	2.45	0.42
9:SF:23:VAL:O	9:SF:27:GLU:HG3	2.19	0.42
9:SF:257:MET:SD	9:SF:312:THR:OG1	2.76	0.42
9:SH:5:VAL:HG22	9:SH:62:ARG:HD2	2.02	0.42
8:SI:402:ARG:HD2	8:SI:415:GLU:OE2	2.19	0.42
9:SJ:148:GLY:O	9:SJ:152:ILE:HG23	2.20	0.42
8:SK:4:CYS:HB2	8:SK:52:PHE:HE1	1.85	0.42
8:SK:195:LEU:HD22	8:SK:428:LEU:HD21	2.01	0.42
9:SL:20:PHE:CD2	9:SL:233:MET:HE1	2.54	0.42
9:SN:68:LEU:HD23	9:SN:68:LEU:HA	1.88	0.42
9:SN:91:VAL:HG11	9:SN:116:VAL:HG13	2.01	0.42
25:T:210:ASP:O	25:T:214:GLN:HG2	2.20	0.42
14:T1:334:HIS:O	14:T1:337:ALA:HB3	2.20	0.42
14:T3:220:GLU:O	14:T3:224:ILE:HG23	2.20	0.42
14:T5:389:ARG:O	14:T5:393:GLU:HG2	2.20	0.42
8:TA:264:ARG:NH1	8:TA:431:ASP:OD2	2.53	0.42
9:TB:44:LEU:N	9:TB:44:LEU:HD22	2.35	0.42
9:TB:68:LEU:HD23	9:TB:68:LEU:HA	1.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:TD:344:TRP:HZ3	8:TE:403:ALA:HB2	1.84	0.42
8:TE:240:ALA:HA	8:TE:243:ARG:HD3	2.01	0.42
9:TF:22:GLU:HA	9:TF:81:PHE:CD1	2.55	0.42
9:TJ:52:ASN:HB3	9:TJ:60:VAL:HG23	2.01	0.42
8:TK:6:SER:HB3	8:TK:8:HIS:CD2	2.55	0.42
8:TM:298:PRO:HG3	8:TM:308:ARG:HE	1.84	0.42
30:U1:124:MET:HE3	30:U1:124:MET:C	2.45	0.42
30:U1:324:LEU:O	30:U1:328:LEU:HG	2.20	0.42
30:U1:391:MET:HE3	30:U1:391:MET:CA	2.50	0.42
30:U8:333:TRP:HZ2	30:V3:351:THR:CG2	2.33	0.42
8:UA:73:THR:O	8:UA:77:GLU:HG2	2.20	0.42
9:UB:118:ASP:OD1	9:UB:121:ARG:NH2	2.46	0.42
9:UB:226:ASN:O	9:UB:230:SER:OG	2.27	0.42
8:UC:191:THR:HA	8:UC:194:THR:HG22	2.02	0.42
9:UD:4:ILE:HD12	9:UD:50:TYR:HE2	1.83	0.42
9:UD:56:GLY:CA	39:a:286:MET:HE1	2.50	0.42
9:UD:204:ASN:HA	9:UD:207:LEU:HD12	2.02	0.42
8:UE:171:ILE:HD13	8:UE:204:VAL:HG13	2.02	0.42
8:UI:215:ARG:NH2	8:UI:300:ASN:OD1	2.50	0.42
9:UJ:266:PHE:HB3	9:UJ:368:ILE:HD11	2.01	0.42
8:UK:124:LYS:HA	8:UK:124:LYS:HD3	1.80	0.42
8:UM:32:PRO:HD2	8:UM:33:ASP:H	1.83	0.42
8:UM:269:LEU:HD22	8:UM:303:VAL:HG21	2.02	0.42
25:V:166:LYS:HA	25:V:199:ILE:HD11	2.00	0.42
30:V4:195:LEU:HD12	30:V4:199:GLU:OE2	2.20	0.42
30:V5:266:ASN:ND2	30:V5:270:LEU:HD22	2.35	0.42
30:V6:335:GLN:NE2	30:V6:339:THR:HG1	2.16	0.42
30:V8:170:MET:HE2	30:V8:170:MET:HA	2.02	0.42
9:VB:51:TYR:O	9:VB:62:ARG:NH2	2.52	0.42
9:VB:279:GLN:HE21	9:VB:279:GLN:HB3	1.68	0.42
9:VF:72:THR:O	9:VF:75:SER:OG	2.31	0.42
8:VG:14:VAL:HA	8:VG:67:PHE:CE2	2.55	0.42
8:VG:234:ILE:HD11	8:VG:272:TYR:HB2	2.01	0.42
9:VJ:297:LYS:HD3	9:VJ:297:LYS:N	2.34	0.42
9:VN:5:VAL:HG22	9:VN:62:ARG:HD2	2.01	0.42
9:VN:149:THR:O	9:VN:152:ILE:HG22	2.19	0.42
30:W0:202:ILE:HB	30:W0:457:ILE:HG23	2.00	0.42
30:W5:250:LEU:HD23	30:W5:250:LEU:HA	1.92	0.42
8:WA:117:LEU:HD12	8:WA:121:ARG:NH1	2.34	0.42
8:WC:141:PHE:CE2	8:WC:190:THR:HB	2.55	0.42
8:WE:24:TYR:HD1	8:WE:52:PHE:CE2	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WF:275:SER:O	9:WF:279:GLN:HG2	2.20	0.42
8:WI:126:ALA:HA	8:WI:132:LEU:HD21	2.02	0.42
8:WI:216:ASN:HD22	8:WI:275:VAL:HG23	1.85	0.42
8:WI:242:LEU:HD11	8:WI:251:ASP:HA	2.01	0.42
8:WI:335:ILE:HA	8:WI:338:LYS:HD3	2.01	0.42
8:WI:377:MET:HE3	8:WI:377:MET:C	2.44	0.42
8:WK:63:PRO:O	8:WK:91:GLN:NE2	2.45	0.42
9:WL:322:SER:HB2	48:s:145:ILE:HD12	2.02	0.42
9:WL:325:GLU:HG3	8:WM:221:ARG:CZ	2.50	0.42
8:WO:416:GLY:O	8:WO:420:GLU:HG2	2.20	0.42
34:X8:25:LYS:O	34:X8:41:LYS:HA	2.19	0.42
31:Y:39:ASN:OD1	31:Y:39:ASN:N	2.53	0.42
31:Y:171:ASP:O	31:Y:175:LYS:HG3	2.20	0.42
31:Y:652:VAL:HB	31:Y:687:GLN:HB3	2.02	0.42
36:Y1:109:GLU:OE1	36:Y1:110:LYS:HG3	2.20	0.42
37:YA:148:ILE:O	37:YA:152:THR:HG23	2.20	0.42
37:YC:168:GLU:HG2	37:YC:220:GLY:O	2.20	0.42
37:YF:122:GLY:HA3	37:YF:126:ILE:HD11	2.02	0.42
37:YH:49:ARG:HB3	37:YH:143:LEU:HA	2.02	0.42
31:Z:659:ARG:NH1	31:Z:675:ASP:OD2	2.53	0.42
39:a:106:PRO:O	39:a:109:PHE:N	2.53	0.42
40:a1:97:LYS:NZ	40:a1:99:PRO:HA	2.35	0.42
40:a2:157:ASP:HB3	40:a2:158:VAL:H	1.55	0.42
39:b:300:ASP:HB2	39:b:304:ARG:NH2	2.35	0.42
41:b2:111:LEU:HD11	44:h1:114:LYS:HE2	2.01	0.42
41:b2:134:ARG:HH21	41:b2:248:MET:HB3	1.85	0.42
41:b2:421:LEU:HD23	41:b2:421:LEU:HA	1.90	0.42
42:e:90:LYS:HA	42:e:111:LYS:HA	2.01	0.42
42:f:386:GLY:O	42:f:387:LYS:HD2	2.20	0.42
44:h3:50:GLY:O	44:h3:51:MET:HB3	2.19	0.42
44:h3:106:LEU:HD23	44:h3:106:LEU:HA	1.88	0.42
43:i:90:LEU:HD13	43:i:90:LEU:HA	1.94	0.42
4:j1:232:SER:O	4:j1:236:GLU:HG2	2.20	0.42
2:1:536:SER:O	8:IE:372:GLN:NE2	2.49	0.42
3:3:45:HIS:HA	3:3:48:HIS:NE2	2.34	0.42
3:3:338:GLU:HA	3:3:341:ILE:CD1	2.45	0.42
4:5:264:LYS:HE3	4:5:374:HIS:HB2	2.02	0.42
4:6:20:LYS:HG3	8:IK:358:GLN:HG3	2.02	0.42
4:6:100:GLN:HE22	8:IK:39:ASP:HA	1.85	0.42
1:7:162:GLN:OE1	1:7:162:GLN:N	2.52	0.42
1:7:222:ARG:HH21	9:KF:217:LEU:HD22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:8:69:ARG:HD2	8:JI:358:GLN:HG2	2.02	0.42
5:8:70:TRP:CD2	10:B:61:GLN:HG2	2.55	0.42
5:8:129:GLU:HG2	5:8:131:SER:H	1.84	0.42
6:A:18:ALA:HA	6:A:21:LYS:HE2	2.01	0.42
7:A3:171:LEU:O	7:A3:175:LEU:HD12	2.20	0.42
7:A4:278:LEU:O	7:A4:372:LEU:HD21	2.20	0.42
8:AA:209:ILE:HG12	8:AA:302:MET:HE2	2.02	0.42
8:AC:27:GLU:HG2	8:AC:361:THR:HG21	2.00	0.42
9:AD:283:ALA:HA	9:MD:55:THR:HG23	2.01	0.42
9:AF:336:LYS:HD2	9:AF:336:LYS:HA	1.81	0.42
9:AF:372:THR:HA	9:AF:422:TYR:CE2	2.49	0.42
8:AI:289:ALA:O	8:AI:293:ASN:ND2	2.53	0.42
8:AM:97:GLU:HG3	8:AM:105:ARG:HH22	1.85	0.42
8:AM:395:PHE:CE2	8:AM:422:ARG:HB2	2.54	0.42
10:B:123:GLU:O	10:B:127:LYS:HG2	2.20	0.42
10:B:168:ARG:NH2	10:B:172:GLU:OE1	2.47	0.42
10:B:306:LEU:HD11	8:HA:364:PRO:HG2	2.00	0.42
11:B1:268:ARG:HE	11:B1:272:MET:HE2	1.85	0.42
11:B2:173:ASN:OD1	11:B2:177:ARG:NH1	2.53	0.42
8:BC:26:LEU:HD21	8:BC:363:VAL:HG12	2.02	0.42
9:BD:101:TRP:CD1	9:BD:146:GLY:HA2	2.55	0.42
8:BG:205:ASP:OD1	8:BG:205:ASP:N	2.39	0.42
8:BG:316:CYS:C	8:BG:317:MET:HE2	2.45	0.42
9:BH:152:ILE:HA	9:BH:155:ILE:HG22	2.01	0.42
8:BK:265:ILE:HG23	8:BK:432:TYR:CE1	2.54	0.42
9:BN:173:PRO:HD3	9:BN:380:ARG:NH1	2.35	0.42
9:BN:209:ASP:C	9:BN:297:LYS:HZ1	2.28	0.42
9:BN:356:ILE:HD13	9:BN:356:ILE:HA	1.91	0.42
8:BO:8:HIS:HB2	8:BO:67:PHE:HD1	1.85	0.42
9:BP:135:LEU:HD12	9:BP:136:THR:N	2.34	0.42
12:C1:90:PHE:HD2	17:O9:183:ARG:NH2	2.18	0.42
12:C3:175:THR:O	12:C3:179:ARG:HG3	2.20	0.42
12:C4:244:LEU:O	11:R4:416:ASN:ND2	2.53	0.42
9:CB:321:MET:HB3	9:CB:321:MET:HE2	1.82	0.42
9:CD:215:LEU:HD21	9:CD:273:LEU:HD22	2.01	0.42
9:CD:326:VAL:O	9:CD:330:MET:HG2	2.20	0.42
8:CE:36:MET:HA	8:CE:36:MET:HE2	2.01	0.42
8:CE:402:ARG:HB2	8:CE:402:ARG:NH1	2.35	0.42
8:CI:206:ASN:HD21	50:CI:501:GTP:HN22	1.67	0.42
9:CN:24:ILE:HD12	9:CN:241:ARG:NH1	2.34	0.42
9:CP:253:LEU:O	9:CP:257:MET:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:D2:149:TYR:HB2	14:D2:183:ILE:CD1	2.49	0.42
14:D2:394:LYS:HA	14:D2:394:LYS:HD3	1.70	0.42
14:D3:111:HIS:HB2	14:D3:222:TYR:HE2	1.84	0.42
8:DC:6:SER:O	8:DC:66:VAL:N	2.49	0.42
8:DC:191:THR:HA	8:DC:194:THR:HG22	2.02	0.42
9:DD:66:VAL:HA	9:DD:91:VAL:O	2.19	0.42
8:DG:120:ASP:OD2	8:DG:121:ARG:NH2	2.53	0.42
8:DG:167:LEU:HD21	8:DG:256:GLN:HE21	1.85	0.42
8:DI:195:LEU:HD21	8:DI:264:ARG:NH2	2.35	0.42
9:DP:200:TYR:HB3	9:DP:268:PRO:HG3	2.02	0.42
8:EA:195:LEU:HD22	8:EA:428:LEU:HD21	2.00	0.42
9:ED:233:MET:HG2	9:ED:233:MET:H	1.59	0.42
9:EF:114:ASP:OD1	9:EF:115:SER:N	2.52	0.42
9:EF:321:MET:HE1	8:EG:221:ARG:HD2	2.02	0.42
15:F:10:VAL:H	15:F:10:VAL:HG22	1.57	0.42
8:FA:248:LEU:HD12	8:FA:248:LEU:HA	1.89	0.42
8:FE:269:LEU:HD22	8:FE:303:VAL:HG21	2.01	0.42
8:FE:385:ALA:HA	8:FE:388:TRP:HD1	1.84	0.42
9:FF:103:LYS:HE2	9:FF:103:LYS:HB3	1.81	0.42
9:FH:322:SER:OG	8:FI:222:PRO:O	2.30	0.42
9:FJ:372:THR:HG21	9:FJ:426:GLN:HB2	2.02	0.42
8:FK:154:MET:HE1	8:FK:168:GLU:CD	2.45	0.42
8:FK:425:LEU:HA	8:FK:428:LEU:HB2	2.01	0.42
9:FL:245:GLN:HG2	8:FM:224:TYR:HD2	1.85	0.42
8:FM:269:LEU:N	8:FM:379:SER:O	2.52	0.42
9:GB:134:GLN:HG3	9:GB:165:ASN:OD1	2.20	0.42
9:GD:67:ASP:HB3	9:GD:73:MET:HE3	2.01	0.42
9:GD:322:SER:OG	8:GE:222:PRO:O	2.29	0.42
8:GE:264:ARG:HH12	8:GE:428:LEU:HA	1.84	0.42
9:GH:1:MET:N	9:GH:128:ASP:OD1	2.53	0.42
9:GL:20:PHE:CD2	9:GL:21:TRP:CD1	3.08	0.42
8:GM:150:ALA:O	8:GM:154:MET:HG2	2.19	0.42
9:GN:176:SER:OG	9:GN:177:ASP:N	2.53	0.42
8:GO:227:LEU:O	8:GO:231:ILE:HG12	2.20	0.42
9:HD:58:LYS:HA	9:HD:58:LYS:HD2	1.85	0.42
9:HF:50:TYR:O	9:HF:62:ARG:HB2	2.20	0.42
8:HG:215:ARG:HD3	49:y:155:HIS:H	1.85	0.42
8:HI:306:ASP:HB3	8:HI:309:HIS:CD2	2.54	0.42
8:HK:241:SER:HB3	8:HK:250:VAL:H	1.84	0.42
8:HK:350:GLY:HA2	9:HL:179:VAL:HG12	2.01	0.42
8:HM:320:ARG:NH2	8:HM:358:GLN:HE22	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HM:401:LYS:H	8:HM:401:LYS:HG2	1.71	0.42
9:HN:22:GLU:HG3	9:HN:81:PHE:HB2	2.02	0.42
17:I:226:PRO:HD2	17:I:244:MET:HE1	2.01	0.42
8:IA:31:GLN:HG2	8:IA:37:PRO:HD3	2.01	0.42
8:IA:129:CYS:SG	8:IA:132:LEU:HB2	2.60	0.42
8:IA:388:TRP:HH2	8:IA:432:TYR:CZ	2.38	0.42
9:ID:171:PRO:O	9:ID:380:ARG:NH2	2.52	0.42
8:IE:338:LYS:HB2	8:IE:338:LYS:HE2	1.73	0.42
8:IG:56:THR:HG22	8:IG:60:LYS:H	1.84	0.42
8:IG:168:GLU:O	8:IG:201:ALA:HA	2.19	0.42
17:J:290:PRO:HB2	17:J:311:GLU:OE2	2.18	0.42
19:J3:88:TYR:CZ	8:OG:372:GLN:HB3	2.55	0.42
19:J3:249:ALA:HB2	45:n:85:THR:HG22	2.00	0.42
19:J3:251:PHE:CE1	8:LK:439:SER:HB3	2.54	0.42
9:JB:300:MET:H	9:JB:300:MET:HG2	1.74	0.42
8:JC:167:LEU:HD12	8:JC:202:PHE:HE2	1.85	0.42
9:JH:252:LYS:HA	8:JI:100:ALA:HB1	2.01	0.42
8:JI:105:ARG:O	8:JI:110:ILE:HG12	2.20	0.42
8:JI:247:ALA:HB2	8:JI:357:TYR:OH	2.19	0.42
8:JI:320:ARG:HD3	8:JI:360:PRO:HG3	2.01	0.42
9:JJ:87:PRO:HA	9:JJ:90:PHE:HD1	1.84	0.42
9:JJ:112:LEU:HD23	9:JJ:112:LEU:HA	1.83	0.42
8:JK:324:VAL:HB	8:JK:327:ASP:OD2	2.20	0.42
8:JM:64:ARG:HB3	8:JM:125:LEU:HD21	2.02	0.42
8:JO:209:ILE:HD11	8:JO:302:MET:CE	2.48	0.42
9:JP:33:THR:O	9:JP:58:LYS:HE2	2.20	0.42
9:JP:183:TYR:CZ	9:JP:388:MET:HE2	2.54	0.42
9:JP:322:SER:HB3	8:JQ:221:ARG:HD2	2.02	0.42
8:JQ:224:TYR:HD1	8:JQ:227:LEU:HD12	1.84	0.42
17:K:247:PHE:O	17:K:251:GLN:HG2	2.19	0.42
9:KB:321:MET:HE1	9:KB:363:MET:SD	2.60	0.42
9:KD:345:ILE:HD12	8:KE:398:MET:SD	2.60	0.42
9:KF:125:GLU:OE2	9:KF:159:TYR:OH	2.35	0.42
9:KH:100:ASN:HD22	9:KH:103:LYS:HG3	1.85	0.42
9:KH:395:LEU:HD21	9:KH:405:GLU:OE1	2.20	0.42
9:KJ:344:TRP:CD2	8:KK:401:LYS:HD2	2.54	0.42
8:KK:338:LYS:NZ	8:KK:340:THR:H	2.18	0.42
9:KL:387:ALA:O	9:KL:390:ARG:NH1	2.53	0.42
9:KL:407:GLU:HA	9:KL:410:GLU:HG2	2.01	0.42
9:KN:42:LEU:HD13	9:KN:356:ILE:HG13	2.02	0.42
8:KO:102:ASN:H	8:KO:144:GLY:HA3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KO:301:GLN:HG2	8:KO:303:VAL:H	1.85	0.42
9:KP:151:LEU:O	9:KP:155:ILE:HG12	2.20	0.42
9:KP:272:PRO:HG3	9:KP:364:SER:HB2	2.02	0.42
17:L:221:TYR:HD1	17:L:222:ALA:H	1.67	0.42
8:LE:265:ILE:HD11	8:LE:435:VAL:HG21	2.01	0.42
8:LG:47:ASP:O	8:LG:50:ASN:HB2	2.20	0.42
9:LH:117:LEU:HD23	9:LH:117:LEU:HA	1.86	0.42
8:LM:14:VAL:HG22	8:LM:67:PHE:HD2	1.85	0.42
8:LM:150:ALA:HA	8:LM:153:LEU:HG	2.01	0.42
8:LM:167:LEU:HD23	8:LM:202:PHE:HE2	1.84	0.42
22:M2:184:VAL:HG21	22:M2:195:TYR:CE1	2.55	0.42
8:MC:88:HIS:CE1	8:MC:90:GLU:HB3	2.55	0.42
8:MC:370:LYS:HE3	8:MC:370:LYS:HB2	1.80	0.42
8:ME:170:ALA:HB3	8:ME:203:MET:SD	2.59	0.42
9:MH:117:LEU:HD23	9:MH:117:LEU:HA	1.85	0.42
9:MH:224:ASP:N	9:MH:224:ASP:OD1	2.51	0.42
9:MH:334:GLN:OE1	9:MH:349:VAL:HG23	2.19	0.42
9:MH:371:SER:O	9:MH:374:ILE:HG22	2.20	0.42
9:MN:336:LYS:HD2	9:MN:336:LYS:HA	1.95	0.42
15:N2:194:ASN:OD1	15:N2:194:ASN:N	2.52	0.42
9:NB:5:VAL:HG11	9:NB:123:GLU:HB2	2.02	0.42
8:NE:259:LEU:HD23	8:NE:259:LEU:HA	1.87	0.42
9:NF:89:ASN:OD1	9:NF:122:LYS:NZ	2.52	0.42
8:NG:8:HIS:O	8:NG:68:VAL:HG12	2.20	0.42
8:NG:150:ALA:HA	8:NG:153:LEU:HG	2.02	0.42
8:NG:288:VAL:HA	8:NG:291:ILE:HG12	2.02	0.42
9:NH:21:TRP:CZ3	9:NH:61:PRO:HB3	2.55	0.42
9:NH:131:GLN:OE1	9:NH:251:ARG:NH2	2.43	0.42
9:NJ:4:ILE:HA	9:NJ:132:GLY:O	2.20	0.42
8:NK:4:CYS:HB2	8:NK:52:PHE:HE2	1.84	0.42
8:NK:317:MET:HB2	8:NK:353:VAL:HA	2.01	0.42
8:NM:183:GLU:HA	8:NM:186:ASN:ND2	2.35	0.42
9:NP:42:LEU:HA	9:NP:45:GLU:HG3	2.02	0.42
25:O5:262:TYR:CE1	25:O5:291:LEU:HD11	2.55	0.42
9:OF:238:THR:HG21	9:OF:318:ARG:HG3	2.02	0.42
8:OG:290:GLU:HA	8:OG:293:ASN:HD22	1.84	0.42
9:OH:257:MET:N	9:OH:257:MET:SD	2.93	0.42
8:OI:171:ILE:HD13	8:OI:171:ILE:HA	1.92	0.42
9:OJ:5:VAL:HB	9:OJ:133:PHE:CD1	2.55	0.42
8:OK:33:ASP:HA	8:OK:85:GLN:HE21	1.84	0.42
8:OK:215:ARG:NH1	36:Y4:32:ILE:HG21	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OM:101:ASN:OD1	8:OM:186:ASN:ND2	2.53	0.42
8:OO:88:HIS:NE2	8:PO:283:HIS:O	2.53	0.42
8:OO:313:MET:HG3	8:OO:344:VAL:HG11	2.01	0.42
9:OP:324:LYS:HE2	9:OP:324:LYS:HB3	1.92	0.42
27:P5:137:GLU:HG2	27:P5:150:TYR:HE1	1.85	0.42
27:P7:179:TYR:O	11:R4:375:ALA:HB1	2.20	0.42
9:PD:263:LEU:HD22	9:PD:422:TYR:CD2	2.54	0.42
9:PD:395:LEU:O	9:PD:399:THR:OG1	2.31	0.42
8:PE:14:VAL:HA	8:PE:67:PHE:CD2	2.54	0.42
8:PE:317:MET:HE2	8:PE:317:MET:HB2	1.79	0.42
8:PE:386:GLU:OE1	8:PE:386:GLU:N	2.50	0.42
8:PG:326:LYS:HB3	9:PH:212:PHE:CZ	2.55	0.42
8:PI:352:LYS:HD2	9:PJ:177:ASP:O	2.19	0.42
9:PJ:267:MET:N	9:PJ:267:MET:SD	2.93	0.42
9:PJ:286:VAL:HG21	9:PJ:321:MET:HE2	2.02	0.42
8:PK:213:CYS:HA	8:PK:217:LEU:CD1	2.48	0.42
8:PK:223:THR:HG22	8:PK:225:THR:HG23	2.02	0.42
8:PK:263:PRO:HG3	9:PL:396:HIS:CD2	2.55	0.42
9:PN:222:TYR:HE2	52:PN:502:GDP:C5	2.37	0.42
9:PP:183:TYR:CD1	9:PP:388:MET:HE1	2.55	0.42
28:Q1:24:ASP:OD1	12:S6:435:GLN:NE2	2.53	0.42
28:Q1:76:TRP:NE1	28:Q1:77:TYR:HD1	2.18	0.42
28:Q1:193:PRO:HB2	12:S6:353:GLU:OE2	2.19	0.42
8:QE:186:ASN:O	8:QE:190:THR:OG1	2.38	0.42
9:QF:279:GLN:H	9:QF:279:GLN:HG2	1.59	0.42
9:QH:165:ASN:HB2	9:QH:200:TYR:CE1	2.55	0.42
9:QH:313:VAL:HG13	9:QH:367:PHE:HE1	1.85	0.42
8:QI:88:HIS:CD2	8:QI:91:GLN:HG3	2.54	0.42
9:QJ:183:TYR:HD2	9:QJ:398:TYR:CE2	2.38	0.42
8:QK:326:LYS:HD3	9:QL:212:PHE:CE1	2.54	0.42
8:QM:21:TRP:CZ3	8:QM:52:PHE:HB3	2.55	0.42
9:QN:183:TYR:O	9:QN:187:LEU:HD12	2.20	0.42
11:R0:111:ASP:OD2	11:R0:112:VAL:N	2.52	0.42
11:R0:318:LEU:O	11:R0:322:THR:HG23	2.20	0.42
11:R2:320:SER:O	11:R2:323:TYR:HB2	2.20	0.42
11:R3:150:VAL:O	11:R3:153:GLU:HG2	2.20	0.42
11:R3:323:TYR:OH	14:T1:205:ARG:HG2	2.20	0.42
8:RC:102:ASN:ND2	8:RC:105:ARG:HG3	2.34	0.42
9:RD:8:GLN:HB3	9:RD:65:LEU:HA	2.02	0.42
9:RH:158:GLU:HG3	9:RH:159:TYR:CE1	2.55	0.42
9:RH:211:CYS:HA	9:RH:215:LEU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RK:211:ASP:O	8:RK:215:ARG:HG2	2.20	0.42
8:RM:136:LEU:HD12	8:RM:136:LEU:HA	1.95	0.42
8:RM:208:ALA:O	8:RM:212:ILE:HG13	2.20	0.42
8:RM:292:THR:HG23	8:RM:293:ASN:N	2.35	0.42
9:RN:418:LEU:HD12	9:RN:418:LEU:HA	1.88	0.42
8:RO:316:CYS:C	8:RO:317:MET:HE2	2.44	0.42
12:S2:202:ARG:NH2	12:S2:216:GLU:HB2	2.35	0.42
12:S3:276:ASN:HA	12:S4:395:VAL:HG21	2.01	0.42
12:S3:476:MET:HE2	12:S3:476:MET:HB2	1.88	0.42
12:S5:231:GLU:HA	12:S5:234:ARG:HE	1.85	0.42
12:S5:283:TYR:HE1	12:S6:393:LEU:HB3	1.84	0.42
12:S7:197:GLU:O	12:S7:201:HIS:ND1	2.53	0.42
9:SB:269:GLY:N	9:SB:367:PHE:O	2.53	0.42
8:SE:206:ASN:HD21	50:SE:501:GTP:HN22	1.68	0.42
9:SH:8:GLN:NE2	9:SH:14:ASN:O	2.52	0.42
9:SH:193:VAL:HG21	9:SH:418:LEU:HD21	2.01	0.42
9:SH:196:THR:HG22	9:SH:198:GLU:H	1.85	0.42
8:SI:381:THR:HG23	8:SI:383:ALA:H	1.84	0.42
8:SM:137:ILE:HG21	8:SM:154:MET:HE1	2.02	0.42
8:SM:388:TRP:H	8:SM:388:TRP:CD1	2.38	0.42
9:SN:113:VAL:HB	9:SN:154:LYS:HE3	2.02	0.42
25:T:124:TYR:CE2	25:T:165:TRP:HB3	2.55	0.42
14:T0:51:TYR:HB3	14:T0:52:LEU:H	1.73	0.42
14:T0:61:TYR:HB3	30:V9:380:ARG:NH1	2.31	0.42
14:T1:131:MET:HE2	14:T1:279:ARG:HG3	2.00	0.42
14:T1:237:GLN:CD	14:T1:237:GLN:H	2.27	0.42
14:T1:394:LYS:HD3	14:T1:394:LYS:HA	1.72	0.42
14:T3:210:SER:O	14:T3:213:MET:HG2	2.20	0.42
14:T4:350:LEU:HB2	14:T4:384:LEU:CD2	2.50	0.42
8:TI:170:ALA:O	8:TI:204:VAL:HG12	2.20	0.42
25:U:403:LYS:HG3	25:U:404:ALA:H	1.83	0.42
30:U1:273:THR:HG1	30:V6:390:LYS:NZ	2.17	0.42
30:U2:399:ARG:HH12	30:U2:412:PRO:HB2	1.85	0.42
30:U2:412:PRO:HG3	30:U3:141:ASN:HB3	2.01	0.42
30:U3:77:THR:C	30:U3:78:ILE:HD12	2.44	0.42
30:U4:270:LEU:HD23	30:U4:270:LEU:HA	1.89	0.42
30:U5:352:ASP:O	30:U5:356:LYS:HG2	2.20	0.42
30:U9:211:VAL:HG13	30:U9:343:PHE:HE1	1.84	0.42
9:UB:256:ASN:HB3	9:UB:257:MET:HE2	2.00	0.42
9:UB:377:LEU:HG	9:UB:380:ARG:NH2	2.33	0.42
8:UC:102:ASN:ND2	8:UC:105:ARG:HG3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UF:155:ILE:HG23	9:UF:159:TYR:CD2	2.55	0.42
9:UF:313:VAL:HG13	9:UF:367:PHE:HE1	1.84	0.42
8:UG:264:ARG:HH12	8:UG:428:LEU:HA	1.85	0.42
9:UH:323:MET:O	9:UH:327:ASP:N	2.44	0.42
8:UM:11:GLN:HG3	8:UM:74:VAL:HG11	2.02	0.42
30:V6:443:LEU:O	30:V6:447:THR:HG23	2.19	0.42
30:V7:396:LEU:HA	30:V7:399:ARG:HG2	2.02	0.42
9:VD:324:LYS:HZ3	8:VE:210:TYR:HD1	1.68	0.42
8:VE:278:ALA:HB3	39:a:268:ASN:ND2	2.34	0.42
9:VF:325:GLU:H	8:VG:221:ARG:NH1	2.18	0.42
9:VH:313:VAL:HG13	9:VH:367:PHE:HE1	1.84	0.42
8:VI:277:SER:OG	8:VI:280:LYS:NZ	2.52	0.42
9:VJ:36:TYR:CG	9:VJ:44:LEU:HD22	2.55	0.42
9:VJ:362:LYS:HD2	9:VJ:363:MET:CB	2.48	0.42
8:VK:154:MET:HE3	8:VK:193:THR:HG22	2.02	0.42
8:VK:304:LYS:HD2	8:VK:304:LYS:O	2.20	0.42
9:VL:269:GLY:HA3	9:VL:367:PHE:HB3	2.02	0.42
8:VO:206:ASN:HB3	8:VO:210:TYR:CZ	2.55	0.42
8:VO:292:THR:HG23	8:VO:335:ILE:HD11	2.01	0.42
31:W:335:ASP:N	31:W:335:ASP:OD1	2.52	0.42
30:W0:145:ARG:O	30:W0:149:LEU:HD13	2.20	0.42
30:W0:311:ARG:O	30:W0:312:ALA:C	2.62	0.42
30:W0:382:ILE:HG12	30:W0:431:LYS:HA	2.01	0.42
8:WA:320:ARG:HD3	8:WA:360:PRO:HG3	2.02	0.42
9:WH:323:MET:HE2	8:WI:210:TYR:OH	2.20	0.42
8:WK:21:TRP:CZ3	8:WK:63:PRO:HB3	2.55	0.42
9:WP:117:LEU:HB3	9:WP:121:ARG:NH2	2.34	0.42
31:X:507:LEU:HD23	31:X:513:VAL:HG11	2.02	0.42
32:X1:195:TYR:O	32:X1:204:TYR:N	2.47	0.42
34:X7:206:VAL:HG22	34:X7:234:LEU:HD21	2.02	0.42
34:X8:64:LEU:HB3	34:X8:75:VAL:HG21	2.02	0.42
35:XD:76:LEU:HB3	35:XD:134:PHE:HB3	2.02	0.42
35:XG:15:TYR:CD1	35:XG:164:ARG:HB2	2.55	0.42
36:Y0:69:ARG:HG2	36:Y0:69:ARG:NH1	2.35	0.42
37:YE:185:LYS:HA	37:YE:209:ILE:HD12	2.00	0.42
39:a:166:GLU:HG2	42:f:544:LEU:CD1	2.46	0.42
39:a:197:ILE:HG12	39:b:541:LYS:HZ2	1.84	0.42
39:a:280:GLU:HA	39:a:283:LYS:HD2	2.02	0.42
40:a2:101:GLN:HA	40:a2:134:TYR:HB3	2.01	0.42
40:a2:132:LYS:HB2	40:a2:132:LYS:HE2	1.87	0.42
40:a3:67:LYS:HA	40:a3:68:PRO:HD3	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:b:356:ALA:C	39:b:360:LYS:HZ2	2.28	0.42
39:b:421:ARG:HA	39:b:424:ARG:HD2	2.02	0.42
39:b:500:GLY:O	39:b:504:LYS:HG2	2.20	0.42
39:b:511:ARG:HD3	39:b:511:ARG:HA	1.71	0.42
41:b2:177:GLN:NE2	41:b2:480:LEU:O	2.53	0.42
41:b3:112:PRO:HB2	44:h2:127:TYR:CD2	2.55	0.42
41:b3:354:LEU:HD23	41:b3:354:LEU:HA	1.91	0.42
39:c:120:THR:HG22	39:c:123:GLU:OE1	2.20	0.42
39:c:431:LYS:HE3	39:c:431:LYS:HB3	1.82	0.42
42:f:126:LEU:O	42:f:140:TRP:N	2.33	0.42
42:g:274:ILE:HG12	42:g:286:LYS:HB2	2.01	0.42
43:h:78:PHE:CE2	43:h:80:ARG:HG2	2.55	0.42
44:h3:105:VAL:HA	44:h3:108:LYS:HE2	2.01	0.42
46:i2:1346:GLU:OE1	46:i2:1369:LYS:NZ	2.47	0.42
45:l:75:PRO:HG2	45:l:96:ILE:HA	2.02	0.42
2:1:488:LEU:HG	9:ID:279:GLN:HG3	2.02	0.42
2:1:544:GLY:O	2:1:548:LEU:HD23	2.20	0.42
2:2:479:ARG:O	2:2:483:LYS:NZ	2.53	0.42
3:3:98:ARG:NH1	18:I1:85:PRO:HG3	2.35	0.42
3:3:368:LYS:HG2	3:3:371:LYS:NZ	2.35	0.42
4:6:56:MET:HG2	4:6:65:PHE:HB3	2.01	0.42
7:A2:351:LEU:HD23	7:A2:351:LEU:HA	1.87	0.42
7:A3:94:TYR:CD2	7:A3:239:LYS:HG2	2.55	0.42
8:AA:41:THR:HA	25:T:189:PHE:HB2	2.02	0.42
8:AA:152:LEU:HD12	8:AA:153:LEU:N	2.35	0.42
9:AD:80:PRO:HB3	31:W:161:TYR:CE1	2.54	0.42
9:AF:420:SER:OG	37:YC:144:ARG:NH2	2.53	0.42
9:AJ:213:ARG:NH2	9:AJ:297:LYS:HB2	2.35	0.42
8:AK:101:ASN:HA	8:AK:144:GLY:H	1.84	0.42
8:AK:277:SER:OG	8:AK:278:ALA:N	2.53	0.42
9:AL:209:ASP:OD1	9:AL:213:ARG:NH1	2.52	0.42
8:AM:195:LEU:HD23	8:AM:195:LEU:HA	1.84	0.42
8:BC:66:VAL:HG12	8:BC:68:VAL:HG13	2.01	0.42
8:BE:108:TYR:HA	8:BE:112:LYS:HE3	2.02	0.42
8:BG:7:ILE:HB	8:BG:137:ILE:HG23	2.01	0.42
9:BN:135:LEU:HB3	9:BN:166:THR:OG1	2.20	0.42
10:C:354:PHE:CE2	8:HK:282:TYR:HB2	2.55	0.42
12:C1:146:LEU:HD23	12:C1:146:LEU:HA	1.87	0.42
12:C2:342:LYS:HE3	12:C2:342:LYS:HB3	1.80	0.42
12:C3:183:ARG:HA	12:C3:186:ILE:HD12	2.02	0.42
9:CB:1:MET:N	9:CB:128:ASP:OD1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CB:87:PRO:HD3	9:DB:281:TYR:CD2	2.54	0.42
9:CD:324:LYS:HD3	8:CE:222:PRO:HD2	2.02	0.42
8:CE:52:PHE:C	8:CE:64:ARG:HD2	2.45	0.42
8:CE:324:VAL:HG12	8:CE:326:LYS:HG2	2.02	0.42
9:CF:8:GLN:HE21	9:CF:14:ASN:HA	1.84	0.42
9:CH:74:ASP:OD2	9:CH:75:SER:N	2.53	0.42
9:CJ:21:TRP:CZ3	9:CJ:24:ILE:HD11	2.54	0.42
8:CK:32:PRO:HG2	40:a3:89:LEU:HD13	2.01	0.42
8:CK:41:THR:CG2	31:Y:231:ARG:HD3	2.50	0.42
8:CK:346:TRP:CE3	8:CK:347:CYS:HB2	2.55	0.42
9:CL:37:HIS:HB3	40:a3:49:TYR:HE2	1.85	0.42
8:CO:14:VAL:HG22	8:CO:67:PHE:HD2	1.85	0.42
9:DD:21:TRP:NE1	9:DD:61:PRO:HG3	2.35	0.42
9:DD:48:ASN:OD1	17:I:23:PHE:HB2	2.20	0.42
9:DF:321:MET:HG2	9:DF:322:SER:O	2.20	0.42
8:DG:278:ALA:HA	8:DG:281:ALA:HB3	2.02	0.42
9:DH:404:ASP:OD1	9:DH:404:ASP:N	2.47	0.42
8:DI:295:CYS:HB3	8:DI:377:MET:HE3	2.02	0.42
9:DJ:5:VAL:HB	9:DJ:133:PHE:HD1	1.85	0.42
8:DQ:4:CYS:HB3	8:DQ:136:LEU:HD23	2.01	0.42
9:EB:164:MET:O	9:EB:164:MET:HG3	2.20	0.42
8:EC:382:THR:HA	8:EC:432:TYR:HD2	1.84	0.42
8:EC:385:ALA:HA	8:EC:388:TRP:HD1	1.85	0.42
9:ED:224:ASP:OD1	25:U:388:GLY:HA2	2.19	0.42
8:EE:49:PHE:O	8:EE:53:PHE:N	2.43	0.42
9:EF:12:CYS:O	9:EF:16:ILE:HG12	2.20	0.42
9:EF:50:TYR:CE1	9:EF:241:ARG:HD3	2.55	0.42
8:EG:166:LYS:N	8:EG:199:ASP:OD2	2.40	0.42
9:EH:293:MET:HE3	9:EH:294:PHE:N	2.35	0.42
8:EO:88:HIS:CE1	8:EO:90:GLU:HB3	2.55	0.42
8:EO:91:GLN:HA	8:EO:121:ARG:HH12	1.85	0.42
9:FD:274:THR:O	9:FD:276:ARG:NH2	2.53	0.42
8:FE:102:ASN:ND2	8:FE:105:ARG:HG3	2.35	0.42
9:FF:86:ARG:CZ	9:FF:87:PRO:HD2	2.49	0.42
8:FM:242:LEU:HD23	8:FM:242:LEU:HA	1.90	0.42
9:FN:146:GLY:O	9:FN:149:THR:OG1	2.32	0.42
9:FN:346:PRO:HD3	8:FO:397:LEU:HD11	2.02	0.42
8:GC:120:ASP:HA	8:GC:123:ARG:NH1	2.35	0.42
8:GC:172:TYR:N	8:GC:204:VAL:O	2.39	0.42
9:GD:7:LEU:HD11	9:GD:133:PHE:HB3	2.01	0.42
9:GF:306:ARG:NH1	9:GF:340:TYR:OH	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GG:111:GLY:O	8:GG:115:VAL:HG23	2.19	0.42
8:GG:116:ASP:OD1	8:GG:116:ASP:N	2.51	0.42
8:GG:252:LEU:HA	8:GG:255:PHE:HE1	1.85	0.42
8:GG:311:LYS:HD3	8:GG:344:VAL:HG12	2.01	0.42
9:GH:256:ASN:HD21	8:GI:181:VAL:HB	1.85	0.42
8:GK:102:ASN:ND2	8:GK:105:ARG:HG3	2.34	0.42
8:GM:49:PHE:HB2	8:GM:53:PHE:HD2	1.85	0.42
9:GN:313:VAL:HB	9:GN:349:VAL:HG12	2.02	0.42
8:HC:276:ILE:HD12	8:HC:281:ALA:HB2	2.02	0.42
8:HE:386:GLU:OE1	8:HE:386:GLU:N	2.53	0.42
8:HE:392:ASP:O	8:HE:422:ARG:NH2	2.32	0.42
9:HF:323:MET:HE3	8:HG:210:TYR:OH	2.20	0.42
9:HF:324:LYS:HB2	8:HG:210:TYR:CE1	2.55	0.42
9:HF:372:THR:HG21	9:HF:426:GLN:HB2	2.02	0.42
9:HH:162:ARG:HA	9:HH:162:ARG:HD3	1.75	0.42
8:HI:113:GLU:HB3	36:Y1:153:VAL:HG21	2.01	0.42
8:HI:251:ASP:HB3	8:HI:254:GLU:HG2	2.01	0.42
9:HL:318:ARG:HD3	9:HL:358:PRO:HD3	2.01	0.42
8:HM:427:ALA:O	8:HM:430:LYS:HG2	2.19	0.42
8:HO:132:LEU:HD21	8:HO:135:PHE:CE1	2.54	0.42
8:IC:21:TRP:CE3	8:IC:24:TYR:HD2	2.37	0.42
8:IC:50:ASN:O	8:IC:64:ARG:NH1	2.52	0.42
8:IC:250:VAL:HG13	8:IC:254:GLU:HB2	2.02	0.42
8:IC:326:LYS:HD3	9:ID:220:PRO:O	2.19	0.42
9:ID:385:PHE:HE2	9:ID:412:GLU:HB3	1.85	0.42
8:IE:274:PRO:HG2	8:IE:371:VAL:HG21	2.01	0.42
8:II:71:GLU:HG2	8:II:98:ASP:HB3	2.01	0.42
8:II:180:ALA:HB3	8:II:183:GLU:HB2	2.02	0.42
8:IK:306:ASP:OD2	8:IK:308:ARG:HB3	2.20	0.42
9:IN:294:PHE:CE2	9:IN:333:VAL:HG11	2.54	0.42
19:J2:207:LYS:HA	19:J2:210:VAL:HB	2.00	0.42
9:JB:30:ILE:HG13	9:JB:51:TYR:CE2	2.51	0.42
9:JD:384:GLN:O	9:JD:388:MET:HG2	2.20	0.42
9:JH:313:VAL:HG12	9:JH:349:VAL:HG23	2.02	0.42
8:JI:215:ARG:HA	8:JI:215:ARG:HD2	1.92	0.42
8:JI:217:LEU:HD12	8:JI:277:SER:HB3	2.01	0.42
9:JJ:20:PHE:CE1	9:JJ:233:MET:HB3	2.55	0.42
9:JJ:63:ALA:O	9:JJ:89:ASN:ND2	2.53	0.42
9:JJ:344:TRP:CE3	9:JJ:345:ILE:HG12	2.55	0.42
9:JL:324:LYS:HB3	8:JM:221:ARG:HH21	1.85	0.42
9:JN:143:THR:OG1	9:JN:144:GLY:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JO:209:ILE:HD13	8:JO:209:ILE:HA	1.71	0.42
8:JO:339:ARG:O	8:JO:342:GLN:NE2	2.53	0.42
8:JO:390:ARG:HH11	8:JO:390:ARG:HG2	1.84	0.42
8:JO:433:GLU:O	8:JO:437:VAL:HG23	2.20	0.42
9:JP:99:ASN:OD1	9:JP:99:ASN:O	2.37	0.42
8:JQ:88:HIS:CD2	8:KO:283:HIS:HB2	2.54	0.42
8:JQ:88:HIS:CE1	8:JQ:90:GLU:HB3	2.55	0.42
8:JQ:259:LEU:HD12	8:JQ:314:ALA:HB1	2.01	0.42
8:JQ:424:ASP:OD1	8:NO:339:ARG:NH1	2.53	0.42
20:K1:42:ASN:N	20:K1:42:ASN:OD1	2.53	0.42
20:K1:90:GLU:HA	20:K1:93:GLU:HG2	2.01	0.42
8:KA:7:ILE:HD11	8:KA:135:PHE:CD1	2.54	0.42
8:KC:149:PHE:HA	8:KC:152:LEU:HG	2.02	0.42
8:KK:68:VAL:HG12	8:KK:93:ILE:HB	2.02	0.42
9:KL:8:GLN:NE2	9:KL:17:GLY:HA3	2.35	0.42
8:KM:123:ARG:CZ	41:b4:382:LEU:HD11	2.50	0.42
9:KN:258:VAL:HB	8:KO:407:TRP:HZ2	1.85	0.42
9:KP:6:HIS:HD2	9:KP:21:TRP:HE1	1.66	0.42
9:KP:55:THR:OG1	9:LP:283:ALA:HA	2.20	0.42
9:LB:372:THR:O	9:LB:375:GLN:HG2	2.20	0.42
9:LD:241:ARG:HE	9:LD:241:ARG:HB2	1.72	0.42
9:LD:331:LEU:HD22	8:LE:177:VAL:HG12	2.02	0.42
8:LG:371:VAL:HG12	8:LG:373:ARG:H	1.84	0.42
9:LH:55:THR:HG21	23:P:189:ARG:HH21	1.85	0.42
9:LH:64:VAL:HG21	9:LH:120:VAL:HG12	2.01	0.42
8:LI:224:TYR:HD1	8:LI:224:TYR:HA	1.74	0.42
8:LK:139:HIS:NE2	8:LK:168:GLU:OE1	2.53	0.42
9:LL:256:ASN:HD22	8:LM:182:VAL:HG22	1.85	0.42
8:LM:153:LEU:O	8:LM:157:LEU:HG	2.19	0.42
9:LN:135:LEU:HB3	9:LN:166:THR:HG22	2.02	0.42
8:LO:370:LYS:HG3	29:S:94:ILE:HD11	2.02	0.42
8:MA:9:VAL:HB	8:MA:139:HIS:HB3	2.02	0.42
8:MC:388:TRP:HE3	8:MC:425:LEU:HD21	1.85	0.42
8:MK:1:MET:HB3	8:MK:2:ARG:H	1.72	0.42
9:ML:68:LEU:HB3	9:ML:96:GLY:HA2	2.02	0.42
8:MM:370:LYS:HA	8:MM:370:LYS:HD2	1.83	0.42
6:N1:89:LEU:HD12	6:N1:94:LYS:HB2	2.02	0.42
8:NA:4:CYS:C	8:NA:5:ILE:HD13	2.45	0.42
8:NC:54:SER:HB3	8:NC:64:ARG:NE	2.35	0.42
8:NE:164:LYS:HE2	36:Y4:134:ASP:OD2	2.19	0.42
9:NF:213:ARG:O	9:NF:216:LYS:NZ	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NG:191:THR:HA	8:NG:194:THR:HG22	2.01	0.42
8:NG:260:VAL:HG13	8:NG:265:ILE:O	2.20	0.42
8:NG:286:LEU:HG	8:NG:373:ARG:NH2	2.33	0.42
8:NG:312:TYR:HB2	8:NG:343:PHE:CD1	2.54	0.42
9:NH:178:THR:O	9:NH:181:GLU:HB2	2.19	0.42
9:NH:185:ALA:HA	9:NH:188:SER:HB3	2.00	0.42
8:NI:119:LEU:HA	8:NI:122:ILE:HD11	2.01	0.42
9:NJ:125:GLU:CD	36:Y4:52:SER:H	2.28	0.42
9:NJ:395:LEU:HD11	9:NJ:408:PHE:CE2	2.55	0.42
8:NK:439:SER:HB3	9:NL:391:ARG:HH21	1.84	0.42
9:NL:267:MET:HE2	9:NL:374:ILE:HB	2.02	0.42
9:NN:281:TYR:C	9:NN:282:ARG:HD2	2.45	0.42
9:NN:363:MET:HA	9:NN:363:MET:HE2	2.01	0.42
8:NO:80:THR:HA	8:NO:84:ARG:HH12	1.85	0.42
8:NO:226:ASN:O	8:NO:230:LEU:HD12	2.20	0.42
17:O8:180:HIS:HB2	30:W4:38:GLN:NE2	2.34	0.42
9:OB:321:MET:HE2	9:OB:322:SER:O	2.20	0.42
9:OD:344:TRP:HZ3	8:OE:403:ALA:HB2	1.85	0.42
9:OD:395:LEU:O	9:OD:399:THR:OG1	2.34	0.42
8:OE:5:ILE:HB	8:OE:135:PHE:CD1	2.55	0.42
8:OG:2:ARG:H	8:OG:2:ARG:HG3	1.69	0.42
8:OG:20:CYS:HB3	8:OG:24:TYR:CZ	2.54	0.42
8:OG:60:LYS:HZ2	8:OG:61:HIS:C	2.28	0.42
9:OL:31:ASP:OD1	9:OL:31:ASP:N	2.52	0.42
9:ON:403:MET:HE2	9:ON:403:MET:HB3	1.90	0.42
8:OO:215:ARG:HH22	36:Y5:187:GLN:NE2	2.17	0.42
9:OP:270:PHE:CE2	9:OP:272:PRO:HD2	2.55	0.42
27:P4:66:GLU:OE1	27:P4:66:GLU:N	2.45	0.42
27:P4:161:HIS:CD2	27:P4:163:ARG:HB3	2.55	0.42
8:PC:297:GLU:O	8:PC:301:GLN:NE2	2.40	0.42
9:PF:142:GLY:N	52:PF:502:GDP:O3B	2.38	0.42
9:PH:156:ARG:HG3	9:PH:195:ASN:HB3	2.01	0.42
9:PH:299:MET:HE2	9:PH:299:MET:HB3	1.98	0.42
9:PH:334:GLN:HE22	9:PH:348:ASN:HB2	1.85	0.42
8:PI:136:LEU:HB2	8:PI:169:PHE:HE1	1.85	0.42
8:PI:220:GLU:H	8:PI:220:GLU:CD	2.19	0.42
9:PJ:150:LEU:O	9:PJ:154:LYS:HG2	2.20	0.42
9:PJ:217:LEU:HB3	9:PJ:220:PRO:HD3	2.02	0.42
8:PM:14:VAL:HA	8:PM:67:PHE:CD2	2.54	0.42
9:PN:330:MET:HB3	9:PN:349:VAL:HG11	2.02	0.42
8:PO:52:PHE:CZ	8:PO:239:THR:HG21	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PO:108:TYR:HA	8:PO:112:LYS:HE3	2.02	0.42
8:PO:264:ARG:HH12	8:PO:428:LEU:HA	1.85	0.42
8:PO:425:LEU:HD23	8:PO:425:LEU:HA	1.79	0.42
23:Q:296:LYS:O	23:Q:300:ARG:NH1	2.53	0.42
8:QC:316:CYS:HA	8:QC:352:LYS:HB3	2.02	0.42
8:QE:311:LYS:H	8:QE:382:THR:HG22	1.85	0.42
8:QE:317:MET:HE1	8:QE:352:LYS:H	1.85	0.42
8:QE:425:LEU:HD12	8:QE:425:LEU:O	2.20	0.42
9:QH:50:TYR:HE2	9:QH:241:ARG:HD3	1.85	0.42
9:QH:132:GLY:HA2	9:QH:162:ARG:HB3	2.02	0.42
8:QK:145:THR:H	50:QK:501:GTP:PG	2.43	0.42
9:QL:320:ARG:O	9:QL:321:MET:HG2	2.20	0.42
8:QM:150:ALA:O	8:QM:153:LEU:HG	2.20	0.42
8:QM:264:ARG:HH12	8:QM:428:LEU:HA	1.85	0.42
9:QN:86:ARG:NE	9:QN:88:ASP:OD2	2.52	0.42
8:QO:174:ALA:HA	8:QO:205:ASP:HB2	2.02	0.42
9:QP:267:MET:SD	9:QP:268:PRO:HD2	2.60	0.42
11:R1:13:ARG:HD2	11:R1:13:ARG:N	2.35	0.42
11:R1:106:LYS:HA	11:R1:106:LYS:HD3	1.72	0.42
11:R1:228:ARG:O	11:R1:232:GLU:HG2	2.20	0.42
11:R2:115:GLU:OE1	12:S7:479:SER:OG	2.24	0.42
8:RC:172:TYR:CE1	8:RC:203:MET:HE2	2.55	0.42
8:RE:372:GLN:H	8:RE:372:GLN:HG2	1.62	0.42
8:RI:116:ASP:N	8:RI:116:ASP:OD1	2.50	0.42
8:RI:388:TRP:HE3	8:RI:425:LEU:HD21	1.85	0.42
9:RL:172:SER:OG	9:RL:205:GLU:OE1	2.24	0.42
8:RM:296:PHE:CZ	8:RM:335:ILE:HG21	2.55	0.42
8:RM:317:MET:SD	8:RM:317:MET:N	2.93	0.42
9:RN:15:GLN:H	9:RN:15:GLN:HG3	1.72	0.42
8:RO:139:HIS:O	8:RO:170:ALA:HA	2.20	0.42
8:RO:236:SER:OG	8:RO:243:ARG:NH2	2.52	0.42
8:RO:317:MET:CE	8:RO:377:MET:HE1	2.50	0.42
29:S:74:LYS:HD3	29:S:77:CYS:SG	2.60	0.42
12:S1:157:LYS:HG2	12:S1:258:LEU:HD12	2.02	0.42
12:S3:121:ARG:HH22	12:S4:375:ILE:N	2.18	0.42
12:S3:438:LEU:HD12	12:S3:438:LEU:C	2.45	0.42
12:S4:199:LEU:O	12:S4:203:GLU:HG2	2.20	0.42
12:S8:328:LEU:HA	12:S8:331:VAL:HG12	2.02	0.42
12:S9:480:TYR:CE1	12:S9:484:LEU:HB2	2.49	0.42
12:S9:483:THR:OG1	14:T1:403:ARG:NE	2.47	0.42
8:SC:3:GLU:H	8:SC:133:GLN:HG2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SC:13:GLY:HA2	8:SC:16:ILE:HD11	2.01	0.42
9:SD:224:ASP:O	9:SD:228:LEU:HD22	2.20	0.42
9:SF:322:SER:OG	8:SG:222:PRO:O	2.29	0.42
8:SG:9:VAL:HG11	8:SG:150:ALA:HB2	2.01	0.42
9:SL:58:LYS:HA	9:SL:58:LYS:HD2	1.83	0.42
9:SN:385:PHE:HE2	9:SN:412:GLU:HB2	1.85	0.42
14:T4:62:ALA:N	30:V5:380:ARG:HH21	2.18	0.42
8:TA:288:VAL:HA	8:TA:291:ILE:HG12	2.02	0.42
9:TB:345:ILE:HA	8:TC:398:MET:HE1	2.01	0.42
9:TD:248:ALA:HA	9:TD:252:LYS:HG3	2.02	0.42
8:TE:264:ARG:HH12	8:TE:428:LEU:HD22	1.84	0.42
8:TG:173:PRO:HB3	8:TG:183:GLU:CD	2.45	0.42
8:TG:347:CYS:HA	9:TH:388:MET:HE1	2.02	0.42
9:TH:316:VAL:HG22	9:TH:352:ALA:HB3	2.01	0.42
8:TI:53:PHE:O	8:TI:64:ARG:NH1	2.53	0.42
8:TI:104:ALA:HB1	8:TI:411:GLU:CD	2.45	0.42
8:TI:171:ILE:HD12	8:TI:206:ASN:ND2	2.34	0.42
9:TN:45:GLU:OE1	9:TN:45:GLU:N	2.53	0.42
25:U:98:LYS:HG3	25:U:123:TYR:CE1	2.55	0.42
30:U0:474:LYS:HB2	30:U0:474:LYS:HE3	1.80	0.42
30:U1:388:PRO:O	30:U1:391:MET:HB2	2.20	0.42
30:U2:77:THR:HG22	30:U2:78:ILE:N	2.34	0.42
30:U4:271:ARG:HA	30:U4:271:ARG:HD3	1.89	0.42
30:U7:478:SER:HA	30:U7:481:ARG:HH11	1.84	0.42
9:UD:122:LYS:HD3	9:UD:122:LYS:HA	1.79	0.42
9:UF:134:GLN:HG2	9:UF:165:ASN:OD1	2.19	0.42
8:UI:255:PHE:O	8:UI:259:LEU:HB2	2.20	0.42
8:UI:370:LYS:H	39:c:264:GLN:HE22	1.68	0.42
9:UJ:324:LYS:HD3	8:UK:210:TYR:CD1	2.54	0.42
8:UK:111:GLY:O	8:UK:115:VAL:HG23	2.20	0.42
9:UL:80:PRO:O	39:c:176:LEU:HD21	2.20	0.42
8:UM:155:GLU:OE1	8:UM:156:ARG:NH1	2.52	0.42
9:UN:123:GLU:O	9:UN:126:SER:OG	2.33	0.42
8:UO:278:ALA:HA	8:UO:281:ALA:HB3	2.02	0.42
25:V:170:ARG:NH2	25:V:202:ASN:O	2.51	0.42
25:V:297:MET:HE2	25:V:297:MET:HB3	1.47	0.42
30:V0:204:ILE:HB	30:V1:95:TRP:HD1	1.85	0.42
30:V0:466:LYS:HA	30:V0:470:MET:HG2	2.00	0.42
30:V7:416:LEU:HD12	30:V7:419:GLU:OE1	2.20	0.42
30:V8:433:ARG:HD3	30:V8:433:ARG:HA	1.87	0.42
8:VA:60:LYS:HD2	8:WA:282:TYR:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VA:154:MET:HE1	8:VA:197:HIS:HB3	2.01	0.42
8:VA:372:GLN:CD	39:a:369:ILE:HG12	2.45	0.42
8:VE:352:LYS:HZ3	9:VF:179:VAL:N	2.17	0.42
9:VF:122:LYS:NZ	9:VF:126:SER:HB3	2.35	0.42
9:VH:165:ASN:HB3	9:VH:200:TYR:HE2	1.85	0.42
8:VO:21:TRP:CE3	8:VO:63:PRO:HB3	2.55	0.42
30:W0:357:LEU:HD21	30:W0:455:LEU:HA	2.02	0.42
30:W2:411:VAL:O	30:W2:415:ARG:HG2	2.20	0.42
30:W4:162:ARG:HH11	30:W4:311:ARG:HH22	1.68	0.42
30:W7:363:LYS:HA	30:W7:363:LYS:HD3	1.94	0.42
9:WB:179:VAL:HG23	9:WB:180:VAL:HG13	2.01	0.42
9:WB:361:LEU:HD12	9:WB:361:LEU:HA	1.85	0.42
8:WC:204:VAL:HG23	8:WC:302:MET:O	2.20	0.42
8:WC:316:CYS:C	8:WC:317:MET:HE2	2.45	0.42
9:WD:258:VAL:HB	8:WE:407:TRP:HZ2	1.85	0.42
9:WD:361:LEU:HD12	9:WD:361:LEU:HA	1.93	0.42
9:WF:27:GLU:OE1	9:WF:241:ARG:NH2	2.36	0.42
9:WF:323:MET:SD	9:WF:324:LYS:N	2.93	0.42
9:WH:183:TYR:CZ	9:WH:388:MET:HE2	2.55	0.42
8:WI:154:MET:HE3	8:WI:154:MET:HB2	1.94	0.42
8:WK:190:THR:O	8:WK:194:THR:HG23	2.19	0.42
8:WO:317:MET:HE1	8:WO:375:VAL:CG2	2.49	0.42
9:WP:107:THR:HB	37:YH:74:LYS:HZ1	1.84	0.42
9:WP:288:GLU:HA	9:WP:291:GLN:OE1	2.19	0.42
31:X:104:ILE:HG12	31:X:115:VAL:HG22	2.02	0.42
31:X:170:CYS:SG	31:X:175:LYS:HG2	2.60	0.42
32:X2:214:THR:O	32:X2:214:THR:OG1	2.22	0.42
35:XB:29:VAL:HG22	35:XB:57:THR:HG23	2.01	0.42
35:XB:84:LYS:HA	35:XB:84:LYS:HD3	1.73	0.42
35:XD:45:LEU:HD12	35:XD:46:VAL:N	2.35	0.42
31:Y:716:LYS:HG3	31:Y:717:CYS:H	1.85	0.42
36:Y2:96:LYS:HD2	36:Y2:96:LYS:HA	1.83	0.42
37:YB:23:SER:HB3	37:YB:29:LYS:HZ2	1.85	0.42
37:YF:165:MET:CE	37:YF:168:GLU:HB2	2.50	0.42
37:YH:56:PHE:HE2	37:YH:107:TYR:HB3	1.85	0.42
31:Z:292:ILE:HD13	31:Z:292:ILE:HA	1.89	0.42
31:Z:654:PRO:HB2	31:Z:657:ASP:OD1	2.20	0.42
40:a3:85:LYS:HD3	40:a3:86:TYR:CZ	2.55	0.42
39:b:369:ILE:O	39:b:372:LEU:HG	2.20	0.42
41:b3:350:MET:HE2	41:b3:443:LEU:O	2.19	0.42
39:c:192:LYS:O	39:c:196:LYS:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:e:524:ARG:NH1	42:e:544:LEU:O	2.53	0.42
42:g:331:HIS:NE2	42:g:350:THR:OG1	2.42	0.42
42:g:605:VAL:HA	42:g:610:ALA:O	2.20	0.42
45:i1:59:SER:HA	45:i1:60:PRO:HD3	1.93	0.42
46:i4:1462:ASP:HB2	46:i4:1469:LEU:HD21	2.02	0.42
4:j1:125:ALA:O	4:j1:129:ILE:HG12	2.20	0.42
45:l:36:GLU:OE1	45:l:36:GLU:N	2.51	0.42
45:m:59:SER:HA	45:m:60:PRO:HD3	1.90	0.42
47:o:182:GLN:O	47:o:185:LEU:HG	2.19	0.42
1:0:117:GLU:N	1:0:117:GLU:OE1	2.53	0.41
2:2:313:LYS:H	2:2:313:LYS:HG2	1.62	0.41
4:5:67:LYS:NZ	9:ID:74:ASP:O	2.41	0.41
4:5:159:HIS:CE1	4:5:163:PRO:O	2.73	0.41
4:5:162:ARG:NH2	12:S3:144:GLN:OE1	2.53	0.41
6:A:27:ARG:NH2	6:A:28:ASN:HB2	2.35	0.41
7:A4:275:ARG:NH1	12:C4:471:GLU:OE1	2.53	0.41
9:AD:17:GLY:HA2	9:AD:20:PHE:HB3	2.02	0.41
9:AF:211:CYS:HB3	9:AF:217:LEU:HD23	2.02	0.41
9:AF:297:LYS:HE2	9:AF:297:LYS:HB2	1.79	0.41
10:B:313:ARG:NH1	10:B:314:ASP:OD1	2.52	0.41
11:B2:356:LEU:O	11:B2:360:GLN:HG3	2.20	0.41
11:B3:32:ARG:CZ	11:B4:285:ASN:HB3	2.50	0.41
11:B3:332:ASP:N	11:B3:332:ASP:OD1	2.52	0.41
11:B5:106:LYS:O	11:B5:109:PRO:HD2	2.20	0.41
9:BB:21:TRP:CE3	9:BB:24:ILE:HD11	2.54	0.41
8:BG:413:MET:HE2	8:BG:413:MET:HB3	1.96	0.41
8:BK:425:LEU:HA	8:BK:425:LEU:HD23	1.81	0.41
8:BM:271:THR:N	8:BM:377:MET:O	2.53	0.41
8:BM:392:ASP:OD2	8:BM:422:ARG:NH1	2.53	0.41
8:BO:101:ASN:HA	8:BO:144:GLY:H	1.85	0.41
10:C:320:ARG:NH2	9:HL:39:ASP:OD2	2.48	0.41
10:C:350:MET:CE	8:HK:372:GLN:HB3	2.50	0.41
10:C:443:ILE:HD13	10:C:443:ILE:HA	1.90	0.41
12:C1:204:LYS:HB2	12:C1:468:ILE:CD1	2.50	0.41
12:C1:400:LEU:O	12:C1:404:THR:HG23	2.19	0.41
12:C2:164:LEU:HD23	12:C2:164:LEU:HA	1.79	0.41
12:C2:375:ILE:HD12	12:C2:378:THR:OG1	2.19	0.41
12:C4:337:TRP:CD1	12:C4:480:TYR:HD1	2.35	0.41
12:C6:41:ASN:HD22	12:S9:330:ILE:CG1	2.33	0.41
9:CB:165:ASN:HB3	9:CB:200:TYR:HE2	1.84	0.41
8:CC:31:GLN:OE1	8:CC:38:SER:OG	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:185:TYR:CE1	8:CC:398:MET:HE2	2.54	0.41
9:CF:379:LYS:HE2	9:CF:379:LYS:HB2	1.94	0.41
8:CG:9:VAL:HG12	8:CG:139:HIS:HB3	2.02	0.41
9:CL:198:GLU:HB2	9:CL:266:PHE:HE2	1.85	0.41
8:CO:304:LYS:HD3	8:CO:304:LYS:HA	1.94	0.41
14:D4:221:VAL:HA	14:D4:224:ILE:HG22	2.01	0.41
8:DC:315:CYS:SG	8:DC:379:SER:OG	2.65	0.41
8:DE:259:LEU:HD12	8:DE:259:LEU:HA	1.86	0.41
8:DI:98:ASP:OD1	8:DI:100:ALA:N	2.49	0.41
8:DI:344:VAL:HG21	8:DI:346:TRP:CE2	2.55	0.41
8:DK:60:LYS:HE3	8:DK:60:LYS:HB3	1.76	0.41
8:DM:263:PRO:HG3	9:DN:396:HIS:CD2	2.55	0.41
8:DO:151:SER:HA	8:DO:193:THR:HG21	2.02	0.41
15:E:74:ASN:ND2	15:E:266:GLN:O	2.52	0.41
15:E:107:ASP:N	15:E:107:ASP:OD1	2.52	0.41
15:E:223:TYR:CE2	15:E:230:ALA:HB2	2.55	0.41
15:E:262:LYS:HB2	15:E:264:LYS:NZ	2.35	0.41
8:EC:406:HIS:HA	8:EC:409:VAL:HG22	2.02	0.41
9:ED:256:ASN:HD22	8:EE:182:VAL:HG22	1.85	0.41
9:EF:165:ASN:HB3	9:EF:200:TYR:CE2	2.55	0.41
8:EG:276:ILE:HD12	8:EG:276:ILE:HA	1.90	0.41
9:EH:256:ASN:OD1	8:EI:181:VAL:HG22	2.20	0.41
8:EI:349:THR:O	8:EI:349:THR:OG1	2.31	0.41
8:EK:328:VAL:HG11	8:EK:353:VAL:HG11	2.02	0.41
9:EN:257:MET:SD	9:EN:314:ALA:HB2	2.59	0.41
8:EO:234:ILE:HD13	8:EO:234:ILE:HA	1.92	0.41
9:FB:73:MET:HE2	9:FB:73:MET:HB2	1.89	0.41
9:FB:344:TRP:CG	8:FC:401:LYS:HD2	2.54	0.41
8:FG:1:MET:SD	8:FG:2:ARG:N	2.93	0.41
9:FH:331:LEU:HD22	8:FI:177:VAL:HG13	2.02	0.41
9:FJ:284:LEU:HD12	9:FJ:284:LEU:HA	1.87	0.41
8:GA:248:LEU:HD21	52:GB:502:GDP:H2'	2.02	0.41
9:GB:197:ASP:OD1	9:GB:197:ASP:N	2.53	0.41
9:GB:324:LYS:HE2	8:GC:222:PRO:HD2	2.02	0.41
8:GC:318:LEU:HD23	8:GC:376:CYS:HB2	2.01	0.41
8:GE:70:LEU:HD23	8:GE:70:LEU:HA	1.91	0.41
8:GE:234:ILE:O	8:GE:238:ILE:HD12	2.20	0.41
8:GE:271:THR:HG21	8:GE:295:CYS:HA	2.01	0.41
9:GF:72:THR:O	9:GF:75:SER:OG	2.28	0.41
9:GH:165:ASN:HB3	9:GH:198:GLU:OE1	2.20	0.41
8:GI:70:LEU:HD23	8:GI:70:LEU:HA	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GJ:8:GLN:HE21	9:GJ:14:ASN:HA	1.85	0.41
8:GK:249:ASN:OD1	8:GK:249:ASN:N	2.52	0.41
9:GL:216:LYS:HZ2	9:GL:216:LYS:HG3	1.72	0.41
8:GM:98:ASP:OD1	8:GM:100:ALA:N	2.52	0.41
8:GM:318:LEU:HB2	8:GM:376:CYS:HB3	2.02	0.41
8:HA:347:CYS:HA	9:HB:388:MET:HE1	2.01	0.41
9:HD:54:ALA:HB3	9:HD:58:LYS:HB2	2.00	0.41
8:HE:79:ARG:NH2	8:HE:92:LEU:O	2.53	0.41
9:HF:42:LEU:HA	9:HF:45:GLU:CD	2.45	0.41
8:HG:114:ILE:O	8:HG:118:VAL:HG22	2.19	0.41
8:HG:125:LEU:HD23	8:HG:125:LEU:HA	1.90	0.41
8:HG:252:LEU:HA	8:HG:255:PHE:HE1	1.85	0.41
9:HH:149:THR:HB	9:HH:191:GLN:HG2	2.02	0.41
9:HH:183:TYR:HE1	9:HH:388:MET:HB3	1.85	0.41
9:HJ:31:ASP:OD2	9:HJ:35:THR:OG1	2.36	0.41
9:HL:407:GLU:HA	9:HL:410:GLU:HG2	2.02	0.41
8:HM:387:ALA:O	8:HM:391:LEU:HD13	2.19	0.41
8:HO:172:TYR:HA	8:HO:173:PRO:HD3	1.90	0.41
8:HO:271:THR:HB	8:HO:377:MET:HB3	2.01	0.41
9:HP:368:ILE:HD13	9:HP:368:ILE:HA	1.80	0.41
17:I:53:CYS:SG	17:I:54:SER:N	2.93	0.41
8:IA:352:LYS:HE2	9:IB:178:THR:HA	2.01	0.41
9:IB:135:LEU:HD12	9:IB:136:THR:N	2.34	0.41
8:IC:119:LEU:HA	8:IC:119:LEU:HD12	1.82	0.41
8:IC:136:LEU:HB3	8:IC:138:PHE:CZ	2.55	0.41
9:ID:36:TYR:CD1	9:ID:44:LEU:HD13	2.55	0.41
8:IE:33:ASP:OD1	8:IE:34:GLY:N	2.52	0.41
8:IE:88:HIS:HE2	8:IE:90:GLU:HG2	1.84	0.41
9:IH:392:LYS:HA	9:IH:392:LYS:HD3	1.90	0.41
9:IJ:131:GLN:O	9:IJ:163:ILE:HG22	2.19	0.41
9:IL:9:ALA:HA	9:IL:66:VAL:O	2.20	0.41
9:IL:392:LYS:HD2	9:IL:395:LEU:HD11	2.02	0.41
8:IO:258:ASN:ND2	9:IP:178:THR:HA	2.35	0.41
8:IO:328:VAL:HG11	8:IO:353:VAL:HG11	2.01	0.41
8:IO:397:LEU:HD13	8:IO:397:LEU:HA	1.95	0.41
9:IP:323:MET:O	9:IP:326:VAL:HG12	2.20	0.41
9:IP:372:THR:HA	9:IP:422:TYR:CE1	2.46	0.41
19:J2:266:GLU:CG	41:b3:211:ARG:HH12	2.33	0.41
19:J3:168:THR:CG2	8:OI:372:GLN:HG3	2.50	0.41
9:JD:3:GLU:HG3	9:JD:49:VAL:HA	2.02	0.41
9:JD:385:PHE:HE2	9:JD:412:GLU:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JE:359:PRO:HA	8:JE:360:PRO:HD3	1.95	0.41
8:JG:51:THR:HG23	8:JG:52:PHE:HD1	1.82	0.41
9:JH:244:GLY:HA2	9:JH:355:ASP:CG	2.44	0.41
9:JH:361:LEU:HD12	9:JH:361:LEU:HA	1.89	0.41
9:JH:388:MET:HE2	9:JH:388:MET:HB3	1.83	0.41
9:JL:117:LEU:HD12	9:JL:117:LEU:HA	1.91	0.41
8:JM:406:HIS:HA	8:JM:409:VAL:CG1	2.50	0.41
9:JN:62:ARG:HG2	9:JN:123:GLU:CD	2.44	0.41
8:JO:3:GLU:O	8:JO:133:GLN:N	2.52	0.41
8:JO:52:PHE:CZ	8:JO:239:THR:HG21	2.54	0.41
8:JO:261:PRO:HB3	9:JP:394:PHE:CE2	2.55	0.41
8:JQ:2:ARG:HB3	8:JQ:242:LEU:HD23	2.02	0.41
20:K2:67:ALA:O	20:K2:70:LEU:N	2.53	0.41
13:K3:423:SER:HB2	13:K3:436:LEU:HD12	2.02	0.41
8:KA:298:PRO:HA	8:KA:301:GLN:HG2	2.02	0.41
9:KB:12:CYS:SG	9:KB:138:SER:HB3	2.60	0.41
8:KC:245:ASP:OD2	8:KC:246:GLY:N	2.53	0.41
8:KE:205:ASP:O	8:KE:209:ILE:HG13	2.20	0.41
8:KG:260:VAL:O	9:KH:397:TRP:NE1	2.49	0.41
8:KI:329:ASN:O	8:KI:333:ALA:N	2.50	0.41
9:KN:150:LEU:HD12	9:KN:150:LEU:HA	1.94	0.41
9:KP:50:TYR:CE2	9:KP:241:ARG:HD3	2.55	0.41
8:LC:1:MET:O	8:LC:3:GLU:HG3	2.19	0.41
9:LD:1:MET:HG3	9:LD:2:ARG:HG2	2.01	0.41
8:LE:296:PHE:CE2	8:LE:335:ILE:HG12	2.54	0.41
9:LH:395:LEU:HB3	45:m:82:THR:HG21	2.02	0.41
8:LI:88:HIS:NE2	8:MI:284:GLU:OE2	2.53	0.41
8:LI:348:PRO:HD2	9:LJ:388:MET:HE2	2.01	0.41
9:LJ:344:TRP:HZ3	8:LK:403:ALA:HB2	1.85	0.41
8:LK:27:GLU:OE1	8:LK:28:HIS:N	2.53	0.41
8:LK:317:MET:HE3	8:LK:317:MET:HB3	1.86	0.41
9:LL:178:THR:O	9:LL:181:GLU:HB2	2.19	0.41
9:LN:202:ILE:HD13	9:LN:229:VAL:HG13	2.02	0.41
9:LN:361:LEU:HD13	29:S:139:GLN:NE2	2.34	0.41
8:LO:113:GLU:HB3	43:k:126:VAL:HG23	2.02	0.41
9:LP:10:GLY:O	9:LP:14:ASN:ND2	2.53	0.41
9:LP:211:CYS:SG	9:LP:217:LEU:HB2	2.60	0.41
8:MG:205:ASP:OD1	8:MG:205:ASP:N	2.44	0.41
8:MG:216:ASN:HD22	8:MG:275:VAL:HG13	1.85	0.41
9:ML:195:ASN:O	9:ML:196:THR:OG1	2.35	0.41
8:MO:250:VAL:HG23	8:MO:254:GLU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N1:18:ALA:HA	6:N1:21:LYS:NZ	2.34	0.41
15:N2:274:PRO:O	15:N2:277:LYS:NZ	2.53	0.41
8:NA:11:GLN:HA	8:NA:74:VAL:HG11	2.01	0.41
9:NB:121:ARG:HD3	9:NB:121:ARG:HA	1.76	0.41
8:NC:171:ILE:HD13	8:NC:171:ILE:HA	1.89	0.41
9:NF:172:SER:HB2	9:NF:203:ASP:OD1	2.20	0.41
8:NG:6:SER:O	8:NG:66:VAL:N	2.51	0.41
8:NG:422:ARG:HD3	8:NG:423:GLU:N	2.34	0.41
8:NI:101:ASN:HA	8:NI:144:GLY:H	1.84	0.41
8:NI:195:LEU:HD21	8:NI:264:ARG:HE	1.85	0.41
8:NI:287:SER:O	8:NI:291:ILE:HG23	2.20	0.41
9:NJ:198:GLU:OE1	9:NJ:198:GLU:N	2.52	0.41
9:NJ:324:LYS:NZ	8:NK:213:CYS:HB2	2.35	0.41
9:NL:8:GLN:HB3	9:NL:65:LEU:HA	2.02	0.41
9:NL:242:PHE:HB3	9:NL:356:ILE:HD13	2.02	0.41
9:NP:150:LEU:HG	9:NP:154:LYS:HE2	2.01	0.41
24:O4:79:TYR:HE1	30:W7:47:TYR:HD2	1.67	0.41
25:O5:229:PHE:HZ	25:O5:238:PHE:HE2	1.68	0.41
17:O8:146:ARG:HG2	17:O8:146:ARG:H	1.64	0.41
17:O9:63:LYS:HB3	14:T3:223:ASN:HD21	1.84	0.41
9:OB:8:GLN:HG2	9:OB:14:ASN:HA	2.01	0.41
9:OB:280:GLN:HB3	9:OB:281:TYR:CD1	2.55	0.41
8:OC:263:PRO:HG3	9:OD:396:HIS:CD2	2.54	0.41
9:OF:5:VAL:O	9:OF:134:GLN:N	2.53	0.41
9:OF:344:TRP:CD2	8:OG:401:LYS:HD2	2.55	0.41
8:OG:390:ARG:HA	8:OG:393:HIS:ND1	2.35	0.41
9:OL:211:CYS:HA	9:OL:215:LEU:HB2	2.01	0.41
9:OL:371:SER:O	9:OL:422:TYR:OH	2.30	0.41
8:OM:336:LYS:HA	8:OM:336:LYS:HD3	1.85	0.41
9:ON:207:LEU:HD22	9:ON:228:LEU:HD23	2.00	0.41
23:P:331:LEU:HG	31:W:15:ILE:HD11	2.01	0.41
27:P3:38:PRO:HA	27:P3:41:GLN:HG3	2.01	0.41
27:P4:26:LYS:HE3	27:P4:27:PRO:HD2	2.02	0.41
27:P5:165:LYS:CD	17:P8:51:SER:HB3	2.49	0.41
9:PB:8:GLN:HG2	9:PB:14:ASN:HA	2.02	0.41
9:PD:285:THR:C	9:PD:363:MET:HE1	2.45	0.41
8:PE:304:LYS:HA	8:PE:304:LYS:HD2	1.89	0.41
8:PE:381:THR:OG1	8:PE:382:THR:N	2.53	0.41
8:PE:419:SER:O	8:PE:423:GLU:HG2	2.20	0.41
9:PF:263:LEU:HD22	9:PF:422:TYR:CD2	2.54	0.41
8:PG:102:ASN:HB3	8:PG:105:ARG:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PG:294:ALA:O	8:PG:300:ASN:ND2	2.52	0.41
8:PI:186:ASN:O	8:PI:190:THR:OG1	2.25	0.41
8:PI:191:THR:HG21	8:PI:425:LEU:HD11	2.02	0.41
9:PJ:273:LEU:O	9:PJ:292:GLN:NE2	2.53	0.41
8:PK:3:GLU:OE2	8:PK:64:ARG:NH2	2.53	0.41
8:PM:7:ILE:HD12	8:PM:137:ILE:HG12	2.01	0.41
8:PM:60:LYS:HD3	8:PM:61:HIS:H	1.84	0.41
9:PN:21:TRP:CE3	9:PN:24:ILE:HD11	2.55	0.41
8:PO:31:GLN:N	8:PO:31:GLN:OE1	2.53	0.41
8:PO:154:MET:HE3	8:PO:193:THR:HG22	2.01	0.41
23:Q:283:ALA:O	23:Q:287:LYS:HD2	2.20	0.41
28:Q2:16:GLY:HA2	12:S3:390:SER:HB2	2.02	0.41
9:QB:375:GLN:HA	9:QB:378:PHE:HD2	1.84	0.41
9:QD:86:ARG:HE	9:RD:281:TYR:HB3	1.85	0.41
9:QH:60:VAL:HG11	9:RH:281:TYR:HB3	2.00	0.41
9:QH:242:PHE:HB2	9:QH:354:CYS:SG	2.60	0.41
9:QH:336:LYS:HD2	9:QH:336:LYS:HA	1.88	0.41
8:QK:60:LYS:HE2	8:RK:283:HIS:CE1	2.55	0.41
8:QM:70:LEU:HD23	8:QM:145:THR:HG23	2.00	0.41
9:QN:28:HIS:CG	9:QN:47:ILE:HG13	2.55	0.41
9:QN:318:ARG:HG2	9:QN:356:ILE:O	2.20	0.41
8:QO:248:LEU:HB3	8:QO:355:ILE:HD13	2.02	0.41
11:R1:29:GLU:HA	11:R1:32:ARG:HD3	2.01	0.41
11:R3:117:LEU:HD13	11:R3:137:LEU:HD12	2.02	0.41
11:R4:267:LYS:HE3	11:R4:267:LYS:HB2	1.77	0.41
8:RE:320:ARG:O	8:RE:374:ALA:N	2.51	0.41
8:RI:263:PRO:HG3	9:RJ:396:HIS:CD2	2.55	0.41
8:RK:83:TYR:HB3	8:RK:86:LEU:HD23	2.02	0.41
8:RM:52:PHE:CE2	8:RM:243:ARG:HD3	2.55	0.41
8:RM:335:ILE:HD13	8:RM:335:ILE:HA	1.92	0.41
8:RM:395:PHE:HD2	8:RM:422:ARG:HD3	1.84	0.41
9:RN:322:SER:OG	8:RO:222:PRO:O	2.37	0.41
8:RO:228:ASN:HA	8:RO:231:ILE:HG12	2.02	0.41
8:RO:335:ILE:HD13	8:RO:335:ILE:HA	1.85	0.41
29:S:297:ARG:HD2	38:Z1:153:ARG:HH22	1.84	0.41
12:S1:209:ASP:N	12:S1:209:ASP:OD1	2.53	0.41
12:S2:135:ILE:HD13	12:S3:389:LYS:HD2	2.01	0.41
12:S2:415:MET:HE2	12:S2:415:MET:HB2	1.84	0.41
12:S4:406:ARG:HH21	12:S4:412:CYS:N	2.18	0.41
12:S6:385:ALA:O	12:S6:389:LYS:HG2	2.20	0.41
12:S7:375:ILE:HD13	12:S7:375:ILE:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S8:192:LEU:HB2	12:S8:226:ILE:HG21	2.01	0.41
12:S9:317:ALA:HA	12:S9:320:LYS:CD	2.50	0.41
9:SB:252:LYS:NZ	8:SC:101:ASN:OD1	2.53	0.41
9:SB:376:GLU:HG2	9:SB:380:ARG:HH22	1.85	0.41
9:SD:344:TRP:HH2	8:SE:400:ALA:HB3	1.84	0.41
9:SF:202:ILE:CD1	9:SF:300:MET:HG3	2.50	0.41
9:SF:379:LYS:O	9:SF:383:GLU:OE1	2.38	0.41
8:SK:263:PRO:HG3	9:SL:396:HIS:CD2	2.55	0.41
8:SK:292:THR:HG21	8:SK:331:ALA:HB1	2.01	0.41
8:SK:413:MET:HE3	8:SK:414:GLU:HB2	2.02	0.41
9:SL:252:LYS:HE2	8:SM:100:ALA:HA	2.02	0.41
9:SL:254:ALA:HA	9:SL:257:MET:HB3	2.02	0.41
9:SN:310:TYR:CD1	9:SN:371:SER:HB2	2.55	0.41
25:T:371:LYS:NZ	40:a1:160:ALA:HB1	2.35	0.41
14:T2:266:LEU:HD23	14:T2:266:LEU:HA	1.82	0.41
14:T3:201:ILE:CG2	14:T3:205:ARG:HE	2.33	0.41
14:T3:372:ASN:OD1	30:W0:450:ARG:HG3	2.20	0.41
14:T4:101:ARG:O	14:T4:105:GLU:HG2	2.19	0.41
14:T5:365:ASN:OD1	14:T5:366:VAL:N	2.43	0.41
8:TA:14:VAL:HG22	8:TA:67:PHE:HD2	1.85	0.41
8:TA:346:TRP:HH2	9:TB:390:ARG:HB3	1.84	0.41
8:TC:217:LEU:HD21	8:TC:368:LEU:HD23	2.01	0.41
9:TD:270:PHE:HD2	9:TD:273:LEU:HD22	1.85	0.41
8:TE:28:HIS:CE1	8:TE:49:PHE:HA	2.55	0.41
9:TF:284:LEU:HD21	9:TF:363:MET:HG2	2.01	0.41
8:TI:57:GLY:H	8:UI:285:GLN:HA	1.84	0.41
8:TI:149:PHE:CD1	8:TI:152:LEU:HD11	2.55	0.41
8:TM:102:ASN:ND2	8:TM:105:ARG:HG3	2.35	0.41
30:U0:244:ARG:HH21	30:U5:196:TYR:HD2	1.67	0.41
30:U3:453:HIS:O	30:U3:457:ILE:HG13	2.20	0.41
30:U7:134:MET:HE2	30:U7:134:MET:HA	2.02	0.41
8:UA:169:PHE:HE2	8:UA:202:PHE:CD2	2.27	0.41
8:UG:31:GLN:HG2	8:UG:32:PRO:HD2	2.02	0.41
9:UL:44:LEU:HD12	9:UL:44:LEU:HA	1.91	0.41
9:UL:395:LEU:O	9:UL:399:THR:OG1	2.31	0.41
25:V:219:PRO:HD2	25:V:221:ARG:NH2	2.35	0.41
25:V:454:PRO:HA	25:V:455:PRO:HD3	1.95	0.41
30:V1:364:ILE:HD13	30:V1:364:ILE:HA	1.91	0.41
30:V2:156:LEU:HD23	30:V2:156:LEU:HA	1.89	0.41
30:V4:322:GLU:OE1	30:V4:322:GLU:HA	2.19	0.41
30:V7:260:ALA:HB1	30:V7:264:ASP:CG	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V8:232:LEU:O	30:V8:236:ILE:HG12	2.20	0.41
30:V8:379:GLU:O	30:V8:383:VAL:HG23	2.20	0.41
8:VC:53:PHE:HA	8:VC:62:VAL:O	2.20	0.41
9:VD:54:ALA:HA	9:WD:283:ALA:HB2	2.01	0.41
9:VF:404:ASP:OD1	9:VF:404:ASP:N	2.51	0.41
8:VG:361:THR:OG1	8:VG:362:VAL:N	2.53	0.41
9:VH:42:LEU:HD21	9:VH:356:ILE:HG13	2.02	0.41
9:VJ:276:ARG:HH12	39:b:456:GLN:HB2	1.85	0.41
9:VJ:313:VAL:HG13	9:VJ:367:PHE:HE1	1.84	0.41
9:VJ:378:PHE:HB3	9:VJ:415:MET:HE1	2.01	0.41
8:VK:328:VAL:HG11	8:VK:353:VAL:HG11	2.01	0.41
8:VM:217:LEU:HD12	8:VM:367:ASP:HB2	2.02	0.41
8:VM:390:ARG:HG3	8:VM:391:LEU:N	2.34	0.41
9:VN:346:PRO:HD2	8:VO:398:MET:HE2	2.01	0.41
30:W6:152:TRP:O	30:W6:156:LEU:HG	2.20	0.41
30:W6:213:LYS:O	30:W6:217:ARG:HG3	2.19	0.41
8:WA:81:GLY:O	8:WA:84:ARG:HG3	2.19	0.41
8:WA:215:ARG:HA	8:WA:215:ARG:CZ	2.49	0.41
9:WB:337:ASN:HB3	9:WB:340:TYR:HD2	1.84	0.41
8:WC:29:GLY:O	8:WC:38:SER:OG	2.38	0.41
8:WC:46:ASP:OD1	8:WC:46:ASP:N	2.53	0.41
9:WH:285:THR:OG1	9:WH:287:PRO:HD2	2.19	0.41
9:WJ:143:THR:OG1	9:WJ:144:GLY:N	2.53	0.41
9:WJ:376:GLU:OE2	9:WJ:380:ARG:NH1	2.51	0.41
8:WM:118:VAL:HG21	8:WM:149:PHE:HZ	1.84	0.41
9:WN:172:SER:HB2	9:WN:203:ASP:OD1	2.20	0.41
9:WN:258:VAL:HB	8:WO:407:TRP:HZ2	1.85	0.41
8:WO:117:LEU:O	8:WO:121:ARG:HG2	2.20	0.41
8:WO:326:LYS:HZ3	9:WP:220:PRO:C	2.28	0.41
8:WO:368:LEU:HD12	8:WO:368:LEU:HA	1.84	0.41
31:X:496:SER:O	31:X:497:GLU:HG2	2.20	0.41
35:XB:35:LYS:HE2	35:XB:35:LYS:HB3	1.78	0.41
35:XE:149:ILE:HG22	35:XE:150:GLU:HB2	2.00	0.41
36:Y1:147:VAL:HG21	36:Y1:155:LYS:HZ2	1.85	0.41
37:YB:185:LYS:HA	37:YB:209:ILE:HD12	2.02	0.41
37:YF:84:ILE:H	37:YF:84:ILE:HG13	1.52	0.41
37:YH:100:LEU:HG	37:YH:115:ILE:HD12	2.02	0.41
40:a2:24:LEU:HD23	40:a2:24:LEU:HA	1.90	0.41
40:a3:131:LYS:HE2	40:a3:131:LYS:HB3	1.78	0.41
41:b4:185:ARG:NH2	41:b4:189:GLU:O	2.47	0.41
41:b4:372:TYR:CD1	41:b4:375:ARG:NH2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:b5:122:THR:O	41:b5:126:VAL:HG12	2.20	0.41
41:b5:209:MET:HG2	41:b5:209:MET:H	1.68	0.41
39:c:114:TRP:O	39:c:118:VAL:HG22	2.20	0.41
39:c:249:LYS:HD2	39:c:250:ARG:N	2.35	0.41
42:f:339:VAL:HG12	42:f:380:ILE:HG23	2.02	0.41
42:f:549:ASN:ND2	42:f:590:ILE:O	2.28	0.41
42:g:23:ASN:HB2	42:g:43:LEU:HA	2.02	0.41
4:j1:154:ASP:HA	4:j1:157:VAL:HG13	2.02	0.41
47:p:268:ASP:HA	47:p:271:HIS:ND1	2.34	0.41
47:p:295:ILE:HD12	47:p:295:ILE:HA	1.90	0.41
48:s:153:THR:HG23	48:s:155:GLY:H	1.85	0.41
2:1:756:ARG:HH11	8:HG:47:ASP:HB2	1.85	0.41
3:3:90:PHE:CE2	13:K3:338:LEU:HD22	2.55	0.41
4:5:260:CYS:HB3	4:5:385:GLU:OE1	2.21	0.41
4:6:289:ALA:HB1	4:6:390:PHE:CE1	2.55	0.41
1:7:87:ARG:HH12	9:JD:320:ARG:HB3	1.84	0.41
5:8:39:LYS:NZ	5:8:40:PHE:O	2.52	0.41
7:A1:49:GLU:O	7:A1:53:ARG:HG2	2.20	0.41
7:A2:38:VAL:O	7:A2:42:GLN:HG3	2.20	0.41
7:A3:72:PHE:CB	11:B3:270:ARG:HH21	2.33	0.41
7:A3:191:LEU:HD23	7:A3:191:LEU:HA	1.79	0.41
7:A4:246:LEU:HD23	7:A4:246:LEU:HA	1.91	0.41
8:AA:121:ARG:HA	8:AA:124:LYS:HE2	2.02	0.41
8:AA:231:ILE:H	8:AA:231:ILE:HG13	1.60	0.41
9:AB:262:ARG:NH1	9:AB:417:ASP:OD2	2.53	0.41
8:AE:137:ILE:HD12	8:AE:154:MET:SD	2.60	0.41
8:AI:274:PRO:HG3	8:AI:286:LEU:HD13	2.02	0.41
8:AI:425:LEU:HA	8:AI:425:LEU:HD12	1.77	0.41
8:AK:113:GLU:OE1	8:AK:113:GLU:N	2.53	0.41
8:AK:157:LEU:HD23	8:AK:157:LEU:HA	1.90	0.41
8:AK:275:VAL:HG12	8:AK:368:LEU:HD21	2.01	0.41
8:AM:139:HIS:O	8:AM:170:ALA:HA	2.20	0.41
8:AO:30:ILE:HD13	8:AO:30:ILE:HA	1.90	0.41
9:AP:215:LEU:HD21	9:AP:273:LEU:HD22	2.02	0.41
11:B2:385:LEU:HD22	12:S2:50:TRP:CH2	2.55	0.41
9:BB:1:MET:H2	9:BB:129:CYS:HB3	1.84	0.41
9:BB:66:VAL:HA	9:BB:91:VAL:O	2.20	0.41
8:BG:2:ARG:HA	8:BG:133:GLN:HE21	1.85	0.41
8:BG:304:LYS:HD3	8:BG:304:LYS:HA	1.95	0.41
9:BH:255:VAL:HG22	8:BI:407:TRP:CE3	2.55	0.41
9:BJ:28:HIS:HA	9:BJ:43:GLN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BL:135:LEU:HD21	9:BL:151:LEU:HD22	2.01	0.41
9:BL:332:ASN:O	9:BL:336:LYS:HG2	2.20	0.41
9:BN:325:GLU:OE2	8:BO:221:ARG:HG2	2.20	0.41
9:BP:54:ALA:HA	9:CP:283:ALA:HB2	2.03	0.41
12:C1:473:CYS:O	12:C1:477:ARG:HG3	2.20	0.41
12:C2:99:TRP:HE1	12:C3:462:LYS:HE2	1.84	0.41
12:C2:287:VAL:HG11	12:C3:401:ASP:HA	2.02	0.41
12:C3:120:LEU:HD21	12:C4:441:SER:HA	2.02	0.41
9:CD:232:THR:HG21	9:CD:268:PRO:HB2	2.00	0.41
9:CD:306:ARG:HH21	9:CD:340:TYR:HB3	1.84	0.41
9:CN:253:LEU:O	9:CN:257:MET:HG2	2.20	0.41
8:CO:93:ILE:HD13	8:CO:93:ILE:HA	1.90	0.41
8:CO:223:THR:HG23	8:CO:225:THR:H	1.84	0.41
9:CP:347:ASN:ND2	8:CQ:178:SER:HB2	2.35	0.41
8:CQ:35:GLN:HE22	8:CQ:60:LYS:HD3	1.84	0.41
14:D1:25:LYS:O	14:D1:29:VAL:HG22	2.20	0.41
14:D1:149:TYR:HB2	14:D1:183:ILE:HG21	2.01	0.41
14:D2:343:ILE:O	14:D2:347:GLU:HG2	2.20	0.41
14:D2:423:LEU:HD23	14:D2:423:LEU:HA	1.94	0.41
14:D3:233:ASN:HD21	14:D4:349:PRO:HB3	1.86	0.41
14:D4:67:ALA:O	14:D4:71:ARG:HG3	2.20	0.41
9:DB:318:ARG:HG2	9:DB:356:ILE:O	2.21	0.41
9:DB:401:GLU:HB3	9:DB:403:MET:HE2	2.01	0.41
8:DC:439:SER:N	9:DD:391:ARG:HH21	2.18	0.41
9:DF:128:ASP:OD1	9:DF:129:CYS:N	2.53	0.41
8:DI:105:ARG:HA	8:DI:411:GLU:OE2	2.20	0.41
8:DI:111:GLY:O	8:DI:115:VAL:HG23	2.21	0.41
9:DJ:341:PHE:HB3	9:DJ:348:ASN:ND2	2.35	0.41
8:DK:111:GLY:O	8:DK:115:VAL:HG23	2.19	0.41
9:DL:8:GLN:HE21	9:DL:14:ASN:HA	1.85	0.41
9:DN:170:VAL:HG11	9:DN:377:LEU:HD13	2.02	0.41
8:DO:154:MET:HE1	8:DO:166:LYS:HD2	2.02	0.41
8:DO:239:THR:HB	8:DO:243:ARG:NH1	2.35	0.41
8:DO:317:MET:O	8:DO:354:GLY:N	2.50	0.41
9:DP:10:GLY:O	9:DP:14:ASN:ND2	2.53	0.41
9:DP:122:LYS:HG3	9:EN:291:GLN:HE22	1.85	0.41
8:DQ:84:ARG:NH2	17:O7:59:MET:SD	2.93	0.41
8:DQ:169:PHE:HA	8:DQ:202:PHE:HB2	2.02	0.41
9:ED:78:SER:OG	25:U:468:GLY:N	2.52	0.41
8:EE:6:SER:HB3	8:EE:8:HIS:CD2	2.55	0.41
9:EF:50:TYR:OH	9:EF:237:THR:OG1	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EG:238:ILE:HD13	8:EG:238:ILE:HA	1.86	0.41
8:EK:297:GLU:O	8:EK:301:GLN:NE2	2.43	0.41
8:EM:241:SER:OG	8:EM:250:VAL:N	2.53	0.41
8:EM:311:LYS:H	8:EM:382:THR:HG22	1.85	0.41
15:F:226:HIS:CE1	9:KP:37:HIS:HE1	2.37	0.41
9:FB:7:LEU:HB2	9:FB:135:LEU:HA	2.02	0.41
9:FB:135:LEU:HD23	9:FB:152:ILE:HD11	2.01	0.41
9:FB:143:THR:O	9:FB:148:GLY:N	2.36	0.41
8:FC:166:LYS:N	8:FC:199:ASP:OD2	2.41	0.41
8:FE:439:SER:OG	9:FF:390:ARG:NH2	2.42	0.41
8:FK:102:ASN:ND2	8:FK:105:ARG:HG3	2.35	0.41
9:FL:407:GLU:HA	9:FL:410:GLU:HG2	2.02	0.41
8:FM:263:PRO:HG3	9:FN:396:HIS:CG	2.54	0.41
9:FN:21:TRP:CE3	9:FN:24:ILE:HD11	2.55	0.41
8:GA:14:VAL:HG12	8:GA:67:PHE:CD2	2.50	0.41
9:GB:114:ASP:OD1	9:GB:115:SER:N	2.53	0.41
9:GB:245:GLN:O	8:GC:11:GLN:NE2	2.54	0.41
9:GH:192:LEU:HD23	9:GH:192:LEU:HA	1.89	0.41
8:GK:186:ASN:O	8:GK:190:THR:HG22	2.20	0.41
9:GL:1:MET:HE3	8:GM:96:LYS:HE2	2.01	0.41
9:GL:15:GLN:HB3	9:GL:226:ASN:HD21	1.85	0.41
9:GN:350:LYS:HE2	8:GO:180:ALA:HA	2.01	0.41
8:GO:118:VAL:O	8:GO:122:ILE:HG12	2.19	0.41
8:GO:216:ASN:HD22	8:GO:275:VAL:HG23	1.85	0.41
8:HA:290:GLU:H	8:HA:290:GLU:HG3	1.74	0.41
9:HB:164:MET:HA	9:HB:164:MET:HE3	2.01	0.41
9:HB:261:PRO:HG3	8:HC:406:HIS:CD2	2.55	0.41
9:HB:375:GLN:HG3	9:HB:379:LYS:NZ	2.35	0.41
9:HD:19:LYS:O	9:HD:23:VAL:HG23	2.20	0.41
9:HD:173:PRO:HG3	9:HD:380:ARG:HG2	2.02	0.41
9:HD:242:PHE:HB3	9:HD:356:ILE:HD12	2.01	0.41
9:HD:251:ARG:NE	8:HE:105:ARG:NH1	2.68	0.41
8:HE:107:HIS:HA	8:HE:152:LEU:HD23	2.01	0.41
8:HG:187:SER:O	8:HG:191:THR:HG23	2.20	0.41
9:HH:70:PRO:HB3	9:HH:92:PHE:CD2	2.55	0.41
9:HH:287:PRO:HG3	9:HH:329:GLN:NE2	2.36	0.41
8:HI:295:CYS:HB3	8:HI:377:MET:HE2	2.02	0.41
9:HJ:44:LEU:HD22	9:HJ:44:LEU:N	2.35	0.41
9:HJ:238:THR:CB	9:HJ:318:ARG:HH21	2.33	0.41
9:HJ:363:MET:HE2	9:HJ:363:MET:HB3	1.89	0.41
8:HK:115:VAL:HG12	8:HK:152:LEU:HD11	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HM:207:GLU:OE2	8:HM:304:LYS:NZ	2.51	0.41
8:HM:227:LEU:O	8:HM:231:ILE:HG12	2.20	0.41
9:HN:152:ILE:HA	9:HN:152:ILE:HD13	1.73	0.41
9:HP:61:PRO:HG2	9:HP:84:ILE:HG23	2.01	0.41
9:IB:327:ASP:HA	9:IB:330:MET:HG2	2.01	0.41
8:IC:188:ILE:O	8:IC:191:THR:OG1	2.23	0.41
8:IC:243:ARG:HE	8:IC:244:PHE:HE1	1.68	0.41
8:IE:91:GLN:HE22	8:IE:92:LEU:HG	1.85	0.41
8:IE:252:LEU:HA	8:IE:255:PHE:HE1	1.81	0.41
8:IE:287:SER:N	8:IE:290:GLU:OE2	2.52	0.41
8:IE:381:THR:OG1	8:IE:382:THR:N	2.53	0.41
9:IF:65:LEU:HD21	9:IF:85:PHE:CD1	2.55	0.41
8:IG:356:ASN:OD1	8:IG:357:TYR:N	2.53	0.41
9:IH:374:ILE:HD11	9:IH:422:TYR:CE2	2.56	0.41
8:II:191:THR:HA	8:II:194:THR:HG22	2.02	0.41
8:IK:120:ASP:O	8:IK:124:LYS:HG3	2.20	0.41
9:IL:276:ARG:HA	9:IL:279:GLN:HG2	2.01	0.41
8:IO:8:HIS:CE1	8:IO:138:PHE:CG	3.08	0.41
8:IO:30:ILE:H	8:IO:30:ILE:HG12	1.72	0.41
9:IP:147:MET:O	9:IP:151:LEU:HD12	2.20	0.41
19:J1:263:ALA:O	19:J1:266:GLU:HB3	2.20	0.41
19:J4:78:LEU:HD12	19:J4:79:PRO:HD2	2.02	0.41
19:J4:266:GLU:HB2	41:b5:211:ARG:NH2	2.33	0.41
19:J5:132:LEU:HG	19:J5:137:GLU:OE2	2.20	0.41
9:JB:1:MET:HE3	9:JB:2:ARG:HB2	2.02	0.41
8:JC:209:ILE:HB	8:JC:227:LEU:HD23	2.01	0.41
8:JE:47:ASP:OD1	8:JE:47:ASP:N	2.51	0.41
8:JE:397:LEU:HD12	8:JE:397:LEU:O	2.21	0.41
8:JG:11:GLN:H	8:JG:11:GLN:HG3	1.67	0.41
8:JG:15:GLN:HB3	8:JG:228:ASN:ND2	2.35	0.41
9:JH:137:HIS:HB2	9:JH:144:GLY:HA3	2.02	0.41
9:JH:165:ASN:N	9:JH:165:ASN:OD1	2.53	0.41
8:JK:46:ASP:N	8:JK:245:ASP:OD1	2.53	0.41
9:JL:336:LYS:HA	9:JL:336:LYS:HD2	1.85	0.41
8:JM:214:ARG:HG3	8:JM:220:GLU:HA	2.02	0.41
9:JN:86:ARG:NH2	9:KL:282:ARG:HD3	2.35	0.41
8:JO:319:TYR:CE2	8:JO:328:VAL:HG13	2.55	0.41
8:JQ:117:LEU:HD12	8:JQ:121:ARG:HH22	1.84	0.41
8:KC:107:HIS:ND1	8:KC:151:SER:OG	2.53	0.41
9:KD:5:VAL:HB	9:KD:133:PHE:CD1	2.55	0.41
9:KD:398:TYR:HB3	9:KD:403:MET:SD	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KE:6:SER:HB3	8:KE:8:HIS:CD2	2.56	0.41
8:KK:275:VAL:HA	8:KK:368:LEU:HD11	2.02	0.41
9:KN:7:LEU:HD12	9:KN:7:LEU:HA	1.87	0.41
8:KO:201:ALA:O	8:KO:268:PRO:HD2	2.19	0.41
8:LC:98:ASP:OD1	8:LC:98:ASP:N	2.51	0.41
8:LC:172:TYR:CD2	8:LC:203:MET:HG3	2.55	0.41
8:LC:231:ILE:HA	8:LC:234:ILE:HD12	2.02	0.41
9:LF:156:ARG:HA	9:LF:156:ARG:HD2	1.86	0.41
8:LG:6:SER:HB3	8:LG:8:HIS:NE2	2.35	0.41
8:LI:370:LYS:HA	8:LI:370:LYS:HD2	1.77	0.41
9:LN:263:LEU:HD21	9:LN:421:GLU:OE2	2.20	0.41
8:LO:264:ARG:HG3	45:i1:84:ARG:NH2	2.35	0.41
17:M:241:THR:CG2	30:W6:144:GLN:HG3	2.50	0.41
22:M1:165:LEU:CD2	27:P3:87:PHE:HZ	2.32	0.41
22:M4:187:GLN:OE1	22:M4:187:GLN:N	2.54	0.41
8:MC:130:THR:OG1	8:MC:131:GLY:N	2.52	0.41
8:ME:119:LEU:HD23	8:ME:119:LEU:HA	1.87	0.41
8:ME:147:SER:HG	8:ME:190:THR:HG1	1.58	0.41
8:MI:96:LYS:HB2	8:MI:97:GLU:OE2	2.20	0.41
8:MI:98:ASP:OD1	8:MI:98:ASP:N	2.53	0.41
8:MK:25:CYS:SG	8:MK:86:LEU:HD11	2.61	0.41
9:MN:363:MET:CE	23:Q:364:ASN:HB2	2.50	0.41
9:MN:380:ARG:HA	9:MN:383:GLU:OE1	2.21	0.41
8:MO:35:GLN:NE2	8:MO:59:GLY:O	2.53	0.41
8:MO:339:ARG:NH1	45:i1:26:ARG:HG2	2.30	0.41
6:N1:85:TYR:HB3	6:N1:96:PHE:HZ	1.84	0.41
8:NA:9:VAL:HG12	8:NA:146:GLY:HA2	2.02	0.41
9:NB:70:PRO:HB3	9:NB:92:PHE:CD2	2.55	0.41
8:NC:191:THR:HA	8:NC:194:THR:HG22	2.01	0.41
9:ND:20:PHE:CD1	9:ND:233:MET:HG3	2.55	0.41
9:NF:81:PHE:CD2	9:NF:84:ILE:HG13	2.48	0.41
9:NF:406:MET:O	9:NF:409:THR:OG1	2.29	0.41
8:NG:169:PHE:CE2	8:NG:235:VAL:HG22	2.55	0.41
9:NJ:6:HIS:HD2	9:NJ:134:GLN:HE21	1.66	0.41
9:NJ:296:ALA:HB3	9:NJ:306:ARG:HH11	1.84	0.41
9:NJ:364:SER:OG	9:NJ:365:ALA:N	2.53	0.41
8:NK:120:ASP:O	8:NK:124:LYS:HG3	2.20	0.41
9:NL:345:ILE:HG23	8:NM:398:MET:SD	2.61	0.41
9:NN:7:LEU:HG	9:NN:135:LEU:HD13	2.03	0.41
9:NN:117:LEU:O	9:NN:121:ARG:NE	2.53	0.41
9:NN:217:LEU:HG	9:NN:220:PRO:CD	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NO:348:PRO:HG2	9:NP:384:GLN:HE21	1.85	0.41
9:NP:259:PRO:HG2	9:NP:263:LEU:HD21	2.02	0.41
17:O7:50:LYS:HE2	17:O7:50:LYS:HB2	1.84	0.41
9:OB:44:LEU:HD12	9:OB:44:LEU:HA	1.93	0.41
9:OB:407:GLU:HA	9:OB:410:GLU:HG3	2.03	0.41
9:OF:290:THR:HG21	9:OF:329:GLN:HB3	2.02	0.41
8:OG:70:LEU:H	8:OG:145:THR:HG21	1.85	0.41
8:OG:296:PHE:HE1	8:OG:335:ILE:HD12	1.86	0.41
9:OH:5:VAL:HB	9:OH:133:PHE:CD1	2.56	0.41
9:OH:324:LYS:CB	8:OI:222:PRO:HD2	2.49	0.41
9:OH:347:ASN:CG	8:OI:178:SER:HB2	2.46	0.41
9:OJ:153:SER:O	9:OJ:157:GLU:HG2	2.19	0.41
9:OJ:299:MET:SD	9:OJ:299:MET:N	2.92	0.41
9:OJ:320:ARG:HG2	9:OJ:355:ASP:O	2.20	0.41
8:OM:311:LYS:H	8:OM:382:THR:HG22	1.85	0.41
9:ON:5:VAL:HB	9:ON:133:PHE:HD1	1.85	0.41
9:ON:103:LYS:HB3	9:ON:103:LYS:HE2	1.86	0.41
9:ON:274:THR:HB	9:ON:278:SER:HB2	2.01	0.41
9:ON:279:GLN:HA	9:ON:282:ARG:NH1	2.36	0.41
9:OP:274:THR:HB	9:OP:278:SER:HB2	2.02	0.41
23:P:299:GLN:HB3	23:P:300:ARG:HH22	1.84	0.41
27:P6:176:MET:CE	14:T2:334:HIS:HA	2.50	0.41
17:P8:61:LYS:NZ	11:R2:350:ASN:OD1	2.44	0.41
9:PB:290:THR:HG21	9:PB:329:GLN:HB2	2.01	0.41
8:PE:171:ILE:HD13	8:PE:171:ILE:HA	1.89	0.41
9:PF:124:ALA:HA	9:PF:130:LEU:HD11	2.02	0.41
9:PF:238:THR:HA	9:PF:241:ARG:HE	1.86	0.41
8:PI:264:ARG:HH22	8:PI:427:ALA:HB3	1.84	0.41
8:PI:314:ALA:HB3	8:PI:380:ASN:HB3	2.00	0.41
8:PK:132:LEU:HD23	8:PK:164:LYS:HE3	2.01	0.41
8:PM:23:LEU:HA	8:PM:26:LEU:CD2	2.50	0.41
9:PN:324:LYS:HE3	8:PO:210:TYR:CD1	2.55	0.41
9:PN:329:GLN:HB2	9:PN:330:MET:HE2	2.01	0.41
9:PP:155:ILE:HA	9:PP:158:GLU:HG2	2.03	0.41
9:QB:372:THR:HA	9:QB:422:TYR:CE1	2.45	0.41
8:QC:147:SER:HG	8:QC:190:THR:HG1	1.55	0.41
8:QE:264:ARG:HH12	8:QE:428:LEU:HA	1.86	0.41
8:QG:122:ILE:HD12	8:QG:122:ILE:HA	1.85	0.41
8:QI:52:PHE:HE2	8:QI:243:ARG:HD3	1.86	0.41
8:QI:420:GLU:O	8:QI:423:GLU:HG2	2.20	0.41
9:QJ:174:LYS:HB2	9:QJ:174:LYS:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QL:7:LEU:HB3	9:QL:135:LEU:HG	2.01	0.41
9:QN:207:LEU:HD11	9:QN:225:LEU:HA	2.02	0.41
9:QN:329:GLN:O	9:QN:333:VAL:HG12	2.20	0.41
9:QP:1:MET:SD	9:QP:2:ARG:N	2.93	0.41
9:QP:292:GLN:HB3	9:QP:293:MET:CE	2.50	0.41
11:R0:324:ARG:HB3	11:R0:328:GLU:HG3	2.02	0.41
11:R1:7:LYS:NZ	11:R1:9:SER:OG	2.52	0.41
11:R2:11:ARG:HD3	11:R2:11:ARG:HA	1.83	0.41
11:R3:117:LEU:HD12	11:R3:117:LEU:HA	1.91	0.41
8:RE:30:ILE:HD13	8:RE:36:MET:CE	2.49	0.41
8:RG:21:TRP:CH2	8:RG:52:PHE:HB3	2.55	0.41
8:RG:60:LYS:HE3	8:RG:60:LYS:HB3	1.75	0.41
8:RG:203:MET:H	8:RG:203:MET:HG3	1.60	0.41
8:RK:425:LEU:HA	8:RK:425:LEU:HD12	1.74	0.41
8:RM:49:PHE:HB2	8:RM:53:PHE:HD2	1.84	0.41
8:RM:398:MET:HE2	8:RM:398:MET:HB3	1.82	0.41
12:S9:177:ILE:HD11	12:S9:325:THR:HB	2.02	0.41
12:S9:192:LEU:HB2	12:S9:226:ILE:HD11	2.01	0.41
12:S9:431:ILE:HG22	12:S9:435:GLN:OE1	2.20	0.41
8:SA:231:ILE:HD12	8:SA:231:ILE:HA	1.86	0.41
9:SF:117:LEU:HA	9:SF:120:VAL:HG22	2.01	0.41
9:SH:51:TYR:HB3	9:SH:59:TYR:HB3	2.02	0.41
8:SI:289:ALA:O	8:SI:293:ASN:ND2	2.51	0.41
9:SN:165:ASN:ND2	9:SN:200:TYR:OH	2.49	0.41
14:T1:48:THR:O	14:T1:50:LYS:HG2	2.19	0.41
14:T3:423:LEU:HD23	14:T3:423:LEU:HA	1.92	0.41
9:TB:74:ASP:OD1	9:TB:75:SER:N	2.53	0.41
9:TB:261:PRO:HG3	8:TC:406:HIS:CD2	2.55	0.41
8:TC:344:VAL:HG22	8:TC:347:CYS:SG	2.60	0.41
8:TE:47:ASP:OD1	8:TE:47:ASP:N	2.51	0.41
8:TE:234:ILE:HG13	8:TE:376:CYS:SG	2.60	0.41
8:TE:408:TYR:HB3	8:TE:413:MET:SD	2.60	0.41
9:TH:272:PRO:HG3	9:TH:364:SER:OG	2.20	0.41
9:TH:320:ARG:NH1	9:TH:355:ASP:OD1	2.53	0.41
8:TI:381:THR:OG1	8:TI:382:THR:N	2.53	0.41
8:TK:139:HIS:NE2	8:TK:168:GLU:OE2	2.53	0.41
9:TN:368:ILE:HD12	9:TN:368:ILE:HA	1.93	0.41
30:U0:374:THR:HG21	30:U1:117:THR:HG23	2.01	0.41
30:U2:289:THR:O	30:U2:289:THR:OG1	2.35	0.41
30:U6:83:ARG:HA	30:U6:86:LEU:HD23	2.02	0.41
30:U7:74:ARG:HA	30:U7:74:ARG:HD3	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U7:94:ASP:O	30:U7:97:ARG:HG3	2.19	0.41
30:U7:149:LEU:HD23	30:U7:149:LEU:HA	1.93	0.41
30:U9:370:GLN:CD	30:U9:370:GLN:N	2.77	0.41
8:UA:169:PHE:CD1	8:UA:231:ILE:HD11	2.55	0.41
9:UB:17:GLY:HA2	9:UB:20:PHE:HB3	2.02	0.41
8:UE:88:HIS:CD2	8:VE:283:HIS:HB3	2.55	0.41
8:UE:111:GLY:O	8:UE:115:VAL:HG23	2.20	0.41
8:UE:154:MET:HE3	8:UE:158:SER:HB2	2.01	0.41
9:UF:3:GLU:HA	9:UF:49:VAL:HA	2.02	0.41
8:UG:121:ARG:HD2	8:UG:124:LYS:HZ1	1.85	0.41
9:UH:12:CYS:SG	9:UH:169:VAL:HG21	2.60	0.41
9:UH:63:ALA:HB3	9:UH:85:PHE:HE1	1.84	0.41
9:UL:214:THR:HB	9:UL:215:LEU:HD22	2.02	0.41
8:UO:269:LEU:HD22	8:UO:303:VAL:HG21	2.02	0.41
25:V:152:GLN:CD	33:X4:325:ASN:HB2	2.44	0.41
25:V:436:ARG:CZ	25:V:461:ILE:HG21	2.51	0.41
30:V1:469:CYS:O	30:V1:473:ARG:HG2	2.20	0.41
30:V2:162:ARG:HD3	30:V2:162:ARG:HA	1.79	0.41
30:V3:417:VAL:HA	30:V4:284:GLU:CG	2.50	0.41
30:V5:152:TRP:O	30:V5:156:LEU:HG	2.19	0.41
30:V5:361:LEU:HD23	30:V5:361:LEU:HA	1.72	0.41
30:V9:385:LYS:O	30:V9:388:PRO:HD2	2.20	0.41
8:VA:209:ILE:HD12	8:VA:227:LEU:HD23	2.02	0.41
8:VA:311:LYS:HD3	8:VA:344:VAL:HG12	2.01	0.41
9:VB:5:VAL:HB	9:VB:133:PHE:HD1	1.85	0.41
9:VB:313:VAL:HG12	9:VB:349:VAL:HG13	2.01	0.41
8:VE:371:VAL:HG12	8:VE:373:ARG:H	1.85	0.41
9:VF:46:ARG:O	9:VF:49:VAL:HG12	2.20	0.41
9:VF:119:VAL:HA	9:VF:122:LYS:HB3	2.01	0.41
9:VF:371:SER:O	9:VF:422:TYR:OH	2.29	0.41
8:VI:217:LEU:HD11	8:VI:367:ASP:HB2	2.02	0.41
8:VI:329:ASN:HA	8:VI:332:ILE:HG22	2.01	0.41
9:VJ:313:VAL:HG12	9:VJ:349:VAL:HG13	2.02	0.41
9:VL:313:VAL:HB	9:VL:349:VAL:HG22	2.02	0.41
8:VM:111:GLY:O	8:VM:115:VAL:HG23	2.20	0.41
8:VM:231:ILE:O	8:VM:235:VAL:HG23	2.21	0.41
8:VM:304:LYS:H	8:VM:304:LYS:HG3	1.67	0.41
30:W2:345:ALA:O	30:W2:349:GLU:HG2	2.20	0.41
9:WB:372:THR:HG21	9:WB:426:GLN:HB2	2.01	0.41
8:WE:138:PHE:HA	8:WE:169:PHE:O	2.20	0.41
8:WG:345:ASP:N	8:WG:345:ASP:OD1	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WH:228:LEU:HB3	9:WH:300:MET:HE1	2.01	0.41
9:WJ:198:GLU:HB2	9:WJ:266:PHE:HE2	1.84	0.41
8:WM:27:GLU:OE2	8:WM:236:SER:OG	2.27	0.41
9:WN:199:THR:N	9:WN:264:HIS:O	2.43	0.41
8:WO:132:LEU:O	8:WO:164:LYS:NZ	2.33	0.41
8:WO:132:LEU:HD23	8:WO:164:LYS:HE3	2.00	0.41
9:WP:185:ALA:O	9:WP:189:VAL:HG23	2.20	0.41
31:X:56:LYS:HB2	31:X:56:LYS:HE3	1.75	0.41
34:X6:83:ASN:OD1	34:X6:85:LYS:HE2	2.20	0.41
34:X6:171:TYR:CD1	34:X6:182:VAL:HA	2.54	0.41
35:XC:82:ASN:HB3	35:XC:127:ASP:HA	2.03	0.41
35:XD:164:ARG:NH2	35:XD:181:PHE:HA	2.35	0.41
35:XE:33:HIS:NE2	35:XE:50:GLU:HB3	2.35	0.41
35:XG:96:ASP:OD1	35:XG:146:THR:OG1	2.23	0.41
31:Y:71:TRP:H	31:Y:71:TRP:CD1	2.38	0.41
36:Y1:110:LYS:O	36:Y1:113:LYS:N	2.46	0.41
31:Z:695:SER:O	31:Z:702:ASN:ND2	2.53	0.41
31:Z:713:LEU:O	31:Z:714:LYS:HB2	2.20	0.41
39:a:345:LYS:O	39:a:346:LYS:C	2.63	0.41
40:a3:112:LEU:HD12	40:a3:112:LEU:HA	1.84	0.41
40:a4:40:LYS:HE2	40:a4:40:LYS:HB2	1.85	0.41
41:b1:349:ARG:O	41:b1:353:THR:HG23	2.20	0.41
41:b4:350:MET:O	41:b4:353:THR:OG1	2.30	0.41
41:b4:429:MET:HE3	41:b4:429:MET:HB2	1.81	0.41
39:c:224:GLU:O	39:c:227:ARG:HG3	2.20	0.41
39:c:326:LYS:HB3	39:c:326:LYS:HE2	1.73	0.41
39:d:431:LYS:HE3	39:d:431:LYS:HB3	1.79	0.41
42:f:517:ILE:N	42:f:529:TRP:O	2.39	0.41
42:g:18:ALA:O	42:g:612:LEU:HA	2.20	0.41
42:g:417:ARG:NH2	42:g:440:GLU:OE2	2.52	0.41
46:i3:1356:GLY:HA2	46:i3:1396:TYR:CE2	2.54	0.41
46:i3:1377:GLU:O	46:i3:1381:GLN:HG3	2.20	0.41
43:j:229:LYS:O	43:j:233:GLU:HG2	2.20	0.41
45:m:59:SER:OG	45:m:62:GLY:O	2.32	0.41
47:p:238:LYS:HB2	47:p:239:ARG:NH1	2.35	0.41
47:p:266:LEU:HB3	47:p:270:MET:HE2	2.02	0.41
7:A3:349:ALA:O	7:A3:353:GLU:HG2	2.20	0.41
9:AB:378:PHE:HB3	9:AB:415:MET:CE	2.49	0.41
8:AC:53:PHE:O	8:AC:64:ARG:NH1	2.53	0.41
9:AD:207:LEU:HD12	9:AD:300:MET:HB2	2.02	0.41
8:AE:312:TYR:HD2	8:AE:381:THR:HB	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:264:ARG:HH12	35:XD:118:ILE:HG13	1.85	0.41
9:AJ:323:MET:HA	9:AJ:326:VAL:HG22	2.01	0.41
8:AK:276:ILE:HG13	8:AK:281:ALA:HB2	2.01	0.41
9:AL:271:ALA:HB3	9:AL:365:ALA:HB3	2.02	0.41
9:AL:317:PHE:HB3	9:AL:321:MET:HE1	2.03	0.41
9:AL:424:GLN:HG3	37:YF:183:ILE:HG23	2.01	0.41
8:AM:288:VAL:O	8:AM:292:THR:HG23	2.20	0.41
9:AN:73:MET:HB3	9:AN:73:MET:HE2	1.82	0.41
9:AN:318:ARG:HG2	9:AN:356:ILE:O	2.20	0.41
9:AP:21:TRP:CE3	9:AP:24:ILE:HD11	2.55	0.41
11:B1:200:SER:HA	11:B2:312:LYS:HD3	2.01	0.41
11:B4:32:ARG:NH2	11:B5:286:THR:OG1	2.54	0.41
9:BB:362:LYS:HE2	9:BB:362:LYS:HB2	1.74	0.41
9:BD:77:ARG:O	31:W:323:TYR:OH	2.27	0.41
8:BE:251:ASP:OD1	8:BE:251:ASP:N	2.33	0.41
8:BE:349:THR:O	8:BE:349:THR:OG1	2.37	0.41
9:BF:167:PHE:CZ	9:BF:233:MET:HG2	2.55	0.41
8:BG:27:GLU:OE2	8:BG:236:SER:OG	2.35	0.41
8:BG:326:LYS:HD3	8:BG:326:LYS:HA	1.84	0.41
9:BH:296:ALA:H	9:BH:306:ARG:NH2	2.18	0.41
8:BK:88:HIS:HE2	8:CK:284:GLU:CD	2.29	0.41
9:BL:202:ILE:HD13	9:BL:229:VAL:HG22	2.02	0.41
9:BL:236:VAL:HG13	9:BL:237:THR:HG23	2.02	0.41
9:BL:256:ASN:ND2	9:BL:350:LYS:HD3	2.33	0.41
8:BM:142:GLY:HA2	8:BM:183:GLU:HG2	2.02	0.41
9:BN:404:ASP:OD1	9:BN:404:ASP:N	2.36	0.41
9:BP:161:ASP:OD2	9:BP:162:ARG:NH1	2.53	0.41
12:C1:351:ILE:HD13	12:C1:351:ILE:HA	1.91	0.41
12:C3:431:ILE:HD13	12:C3:431:ILE:HA	1.90	0.41
12:C4:160:ILE:HG22	12:C4:258:LEU:HD22	2.02	0.41
9:CB:68:LEU:HG	9:CB:95:SER:O	2.20	0.41
9:CB:375:GLN:NE2	9:CB:376:GLU:HG2	2.35	0.41
8:CC:1:MET:SD	8:CC:1:MET:N	2.68	0.41
8:CE:91:GLN:HE21	8:CE:125:LEU:HD21	1.84	0.41
8:CE:326:LYS:HG3	8:CE:327:ASP:N	2.35	0.41
8:CG:203:MET:HE3	8:CG:203:MET:HB2	1.62	0.41
8:CK:17:GLY:HA2	8:CK:20:CYS:HB2	2.02	0.41
8:CK:294:ALA:O	8:CK:300:ASN:ND2	2.28	0.41
8:CM:208:ALA:HA	8:CM:211:ASP:OD1	2.21	0.41
9:CN:345:ILE:HG23	8:CO:398:MET:CE	2.43	0.41
8:CQ:338:LYS:HD3	8:CQ:341:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:D1:382:GLU:O	14:D1:386:MET:HG2	2.20	0.41
14:D2:75:GLU:HG2	14:D2:78:ARG:NH2	2.36	0.41
14:D2:188:GLU:HG3	12:S6:289:ARG:HE	1.85	0.41
14:D2:339:LEU:O	14:D2:343:ILE:HG13	2.20	0.41
14:D3:155:ASN:OD1	14:D3:434:ARG:NH1	2.50	0.41
8:DC:207:GLU:O	8:DC:211:ASP:N	2.47	0.41
8:DC:231:ILE:HG13	8:DC:231:ILE:H	1.67	0.41
9:DD:73:MET:SD	31:W:409:LEU:HD13	2.59	0.41
8:DG:2:ARG:HD3	8:DG:242:LEU:HG	2.01	0.41
8:DK:330:ALA:O	8:DK:334:THR:OG1	2.32	0.41
9:DL:174:LYS:HD2	9:DL:174:LYS:H	1.85	0.41
8:DM:318:LEU:HD23	8:DM:318:LEU:HA	1.90	0.41
9:DP:183:TYR:CD1	9:DP:388:MET:HE1	2.56	0.41
9:DP:221:THR:N	9:DP:224:ASP:OD2	2.53	0.41
8:EA:367:ASP:OD1	8:EA:367:ASP:N	2.54	0.41
9:ED:279:GLN:H	9:ED:279:GLN:HG2	1.64	0.41
9:ED:388:MET:HE1	9:ED:393:ALA:HB3	2.01	0.41
8:EG:322:ASP:OD2	8:EG:373:ARG:NH2	2.53	0.41
8:EI:138:PHE:HD1	8:EI:169:PHE:HB2	1.85	0.41
8:EI:216:ASN:HB2	8:EI:217:LEU:HD22	2.03	0.41
8:EI:311:LYS:HA	8:EI:342:GLN:HB2	2.01	0.41
8:EK:318:LEU:HD13	8:EK:318:LEU:HA	1.96	0.41
15:F:38:LEU:O	15:F:42:ARG:HG3	2.20	0.41
9:FB:309:ARG:HG3	9:FB:426:GLN:HG3	2.02	0.41
9:FD:251:ARG:HD2	8:FE:105:ARG:NH1	2.36	0.41
9:FF:165:ASN:ND2	9:FF:200:TYR:OH	2.41	0.41
8:FG:367:ASP:OD1	8:FG:368:LEU:N	2.53	0.41
9:FJ:325:GLU:O	9:FJ:328:GLU:HG3	2.21	0.41
8:FM:268:PRO:HA	8:FM:380:ASN:HA	2.02	0.41
8:FO:56:THR:HA	8:GO:285:GLN:HB2	2.02	0.41
8:FO:111:GLY:O	8:FO:115:VAL:HG23	2.19	0.41
8:GA:248:LEU:HB2	8:GA:355:ILE:HG22	2.03	0.41
9:GB:242:PHE:HB3	9:GB:356:ILE:HD13	2.02	0.41
9:GB:267:MET:SD	9:GB:299:MET:HB3	2.60	0.41
9:GD:268:PRO:HG2	9:GD:300:MET:SD	2.61	0.41
8:GE:183:GLU:HA	8:GE:186:ASN:HD22	1.85	0.41
8:GG:2:ARG:HE	8:GG:242:LEU:HD23	1.85	0.41
8:GG:47:ASP:OD1	8:GG:47:ASP:N	2.53	0.41
9:GH:254:ALA:O	9:GH:258:VAL:HG22	2.21	0.41
8:GI:124:LYS:HD2	8:GI:124:LYS:N	2.36	0.41
9:GL:320:ARG:HH22	26:P2:78:THR:C	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GM:19:ALA:HA	26:P2:83:PHE:CZ	2.55	0.41
8:GM:338:LYS:HA	8:GM:338:LYS:HD3	1.86	0.41
8:HA:136:LEU:HA	8:HA:167:LEU:HG	2.01	0.41
8:HC:191:THR:HA	8:HC:194:THR:HG22	2.02	0.41
9:HH:237:THR:HB	9:HH:241:ARG:HH21	1.85	0.41
8:HI:192:HIS:NE2	8:HI:421:ALA:HA	2.35	0.41
9:HJ:32:PRO:HG3	9:HJ:81:PHE:CE1	2.56	0.41
8:HK:271:THR:HB	8:HK:377:MET:HB3	2.01	0.41
8:HO:274:PRO:HB2	8:HO:276:ILE:HG12	2.01	0.41
9:HP:172:SER:HB2	9:HP:203:ASP:OD1	2.20	0.41
9:IB:65:LEU:HD22	9:IB:90:PHE:CE1	2.55	0.41
9:ID:2:ARG:HA	9:ID:131:GLN:HB2	2.01	0.41
9:ID:112:LEU:HD23	9:ID:112:LEU:HA	1.89	0.41
8:IE:234:ILE:O	8:IE:238:ILE:HD12	2.20	0.41
8:IG:258:ASN:HD22	8:IG:352:LYS:HG2	1.86	0.41
9:IH:284:LEU:HD12	9:IH:284:LEU:HA	1.89	0.41
8:II:207:GLU:OE1	8:II:304:LYS:HG3	2.20	0.41
9:IJ:178:THR:HB	9:IJ:181:GLU:HB2	2.01	0.41
9:IL:58:LYS:HD3	8:JM:282:TYR:HE2	1.83	0.41
8:IM:172:TYR:N	8:IM:204:VAL:O	2.32	0.41
8:IM:261:PRO:HG3	8:IM:313:MET:CE	2.50	0.41
19:J3:280:TYR:OH	8:LK:339:ARG:NH2	2.53	0.41
19:J5:79:PRO:HD3	8:OO:282:TYR:CD2	2.56	0.41
9:JB:328:GLU:O	9:JB:332:ASN:ND2	2.53	0.41
8:JC:287:SER:O	8:JC:291:ILE:HG23	2.20	0.41
9:JD:375:GLN:HE21	9:JD:419:VAL:HB	1.86	0.41
8:JE:154:MET:HE2	8:JE:154:MET:HA	2.01	0.41
9:JF:310:TYR:CD1	9:JF:371:SER:HB2	2.56	0.41
9:JF:361:LEU:HD12	9:JF:361:LEU:HA	1.84	0.41
8:JG:117:LEU:HD23	8:JG:117:LEU:HA	1.88	0.41
8:JG:224:TYR:O	8:JG:228:ASN:N	2.53	0.41
8:JI:7:ILE:HD12	8:JI:7:ILE:HG23	1.93	0.41
9:JJ:327:ASP:OD1	9:JJ:327:ASP:N	2.51	0.41
8:JK:215:ARG:HH22	8:JK:299:ALA:HB1	1.85	0.41
8:JK:336:LYS:HD2	8:JK:336:LYS:HA	1.72	0.41
8:JM:2:ARG:HB3	8:JM:242:LEU:HD23	2.02	0.41
9:JN:30:ILE:HG21	9:JN:51:TYR:HE1	1.85	0.41
9:KD:101:TRP:HB2	9:KD:184:ASN:HB3	2.03	0.41
8:KE:23:LEU:HD21	8:KE:236:SER:HB3	2.02	0.41
8:KE:105:ARG:NE	8:KE:110:ILE:HD11	2.36	0.41
8:KE:138:PHE:HD1	8:KE:169:PHE:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KE:141:PHE:CE1	8:KE:170:ALA:HB1	2.56	0.41
9:KF:174:LYS:HE3	9:KF:205:GLU:OE1	2.21	0.41
8:KG:59:GLY:HA3	29:S:332:ARG:HH22	1.83	0.41
8:KG:338:LYS:HD3	8:KG:338:LYS:C	2.45	0.41
9:KL:8:GLN:HB2	9:KL:64:VAL:O	2.19	0.41
8:KM:66:VAL:HG21	8:KM:122:ILE:CD1	2.50	0.41
9:KP:318:ARG:HG2	9:KP:358:PRO:HD3	2.02	0.41
8:LA:215:ARG:NH2	8:LA:299:ALA:O	2.53	0.41
8:LA:316:CYS:HB3	8:LA:378:LEU:HB2	2.02	0.41
8:LA:414:GLU:O	8:LA:417:GLU:HG2	2.21	0.41
8:LG:104:ALA:HB1	8:LG:411:GLU:CD	2.45	0.41
9:LH:196:THR:HB	9:LH:264:HIS:CE1	2.56	0.41
9:LJ:173:PRO:HG3	9:LJ:380:ARG:HD2	2.02	0.41
9:LN:8:GLN:NE2	9:LN:17:GLY:HA3	2.35	0.41
9:LN:334:GLN:HA	9:LN:341:PHE:CE2	2.56	0.41
8:LO:6:SER:HB3	8:LO:8:HIS:NE2	2.35	0.41
9:LP:77:ARG:NH1	25:O6:40:VAL:HG12	2.33	0.41
9:LP:182:PRO:O	9:LP:186:THR:OG1	2.28	0.41
22:M1:121:ARG:HA	22:M1:124:TYR:CE2	2.55	0.41
9:MB:287:PRO:HG3	9:MB:329:GLN:NE2	2.35	0.41
8:MC:83:TYR:HB3	8:MC:86:LEU:HB3	2.03	0.41
8:ME:176:GLN:N	8:ME:176:GLN:OE1	2.53	0.41
9:MF:139:LEU:HA	9:MF:145:SER:HB3	2.02	0.41
9:MH:216:LYS:HG3	9:MH:275:SER:CB	2.50	0.41
9:ML:2:ARG:NH1	8:MM:71:GLU:HG3	2.34	0.41
9:MP:114:ASP:N	9:MP:114:ASP:OD1	2.51	0.41
9:MP:224:ASP:O	9:MP:228:LEU:HD22	2.20	0.41
8:NA:26:LEU:HD12	8:NA:363:VAL:HG23	2.03	0.41
8:NA:60:LYS:HG2	8:OA:283:HIS:CE1	2.55	0.41
8:NA:82:THR:HG23	8:NA:83:TYR:CD2	2.55	0.41
9:NB:310:TYR:N	9:NB:340:TYR:O	2.33	0.41
8:NC:169:PHE:CE2	8:NC:235:VAL:HG22	2.56	0.41
9:NF:94:GLN:HE21	36:Y4:131:PHE:HE2	1.69	0.41
8:NG:77:GLU:HA	8:NG:80:THR:HG22	2.02	0.41
8:NK:291:ILE:HD11	8:NK:375:VAL:HG23	2.02	0.41
9:NL:19:LYS:HA	9:NL:22:GLU:HB2	2.02	0.41
9:NL:344:TRP:HA	8:NM:397:LEU:HD12	2.02	0.41
8:NM:201:ALA:HB3	8:NM:267:PHE:CD1	2.54	0.41
8:NO:152:LEU:HD13	8:NO:156:ARG:HH12	1.85	0.41
8:NO:225:THR:O	8:NO:229:ARG:HG3	2.20	0.41
9:NP:233:MET:H	9:NP:233:MET:HG2	1.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O1:126:MET:HE2	24:O1:126:MET:HB3	1.89	0.41
24:O4:55:ALA:HA	24:O4:69:GLN:HE21	1.85	0.41
25:O6:12:LEU:O	25:O6:15:SER:OG	2.33	0.41
17:O9:64:PHE:HZ	14:T3:111:HIS:NE2	2.18	0.41
8:OA:381:THR:O	8:OA:432:TYR:OH	2.37	0.41
9:OB:248:ALA:HA	9:OB:252:LYS:HG3	2.03	0.41
8:OC:168:GLU:O	8:OC:202:PHE:N	2.47	0.41
8:OC:217:LEU:HD13	8:OC:277:SER:HB3	2.02	0.41
9:OD:324:LYS:HE3	8:OE:210:TYR:CD1	2.55	0.41
9:OF:322:SER:O	9:OF:326:VAL:HG23	2.21	0.41
9:OH:211:CYS:HA	9:OH:215:LEU:HB2	2.02	0.41
9:OH:246:LEU:CD2	8:OI:179:THR:HG21	2.50	0.41
8:OK:179:THR:O	8:OK:179:THR:HG22	2.19	0.41
8:OM:32:PRO:HA	8:OM:83:TYR:HE2	1.84	0.41
9:ON:163:ILE:HD11	9:ON:251:ARG:NE	2.36	0.41
26:P2:16:GLN:OE1	26:P2:16:GLN:N	2.48	0.41
9:PB:1:MET:HB3	9:PB:2:ARG:H	1.66	0.41
9:PD:21:TRP:O	9:PD:25:SER:HB3	2.20	0.41
8:PE:201:ALA:HB3	8:PE:267:PHE:HA	2.02	0.41
8:PG:83:TYR:HB3	8:PG:86:LEU:HD22	2.02	0.41
9:PH:321:MET:HE3	9:PH:322:SER:O	2.20	0.41
9:PH:356:ILE:HD13	9:PH:356:ILE:HA	1.91	0.41
8:PK:83:TYR:HB3	8:PK:86:LEU:HB3	2.02	0.41
9:PL:7:LEU:HD23	9:PL:64:VAL:HB	2.02	0.41
9:PL:8:GLN:HG2	9:PL:14:ASN:HA	2.02	0.41
9:PN:274:THR:OG1	9:PN:279:GLN:NE2	2.53	0.41
9:PP:305:PRO:HA	9:PP:373:ALA:HB2	2.02	0.41
28:Q2:24:ASP:CG	28:Q2:26:LEU:HG	2.46	0.41
8:QC:7:ILE:HA	8:QC:66:VAL:HG23	2.03	0.41
9:QH:165:ASN:HB2	9:QH:200:TYR:HE1	1.84	0.41
9:QL:67:ASP:HA	9:QL:143:THR:HG21	2.02	0.41
9:QN:361:LEU:HD12	9:QN:361:LEU:HA	1.91	0.41
11:R1:398:THR:HA	11:R1:403:LYS:HE3	2.01	0.41
11:R2:318:LEU:HD23	11:R2:318:LEU:HA	1.92	0.41
11:R3:154:LYS:HB3	11:R3:243:ILE:HD13	2.01	0.41
11:R4:279:LEU:HB3	11:R4:377:ILE:HG12	2.03	0.41
9:RD:335:ASN:OD1	9:RD:335:ASN:N	2.52	0.41
8:RE:125:LEU:HD23	8:RE:125:LEU:HA	1.85	0.41
9:RF:248:ALA:HA	9:RF:252:LYS:HG3	2.03	0.41
8:RG:56:THR:HG22	8:SE:285:GLN:HB2	2.02	0.41
9:RH:156:ARG:HG3	9:RH:195:ASN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RI:259:LEU:HD23	8:RI:259:LEU:HA	1.89	0.41
9:RJ:240:LEU:HD13	9:RJ:249:ASP:HB3	2.02	0.41
9:RJ:324:LYS:O	9:RJ:327:ASP:N	2.53	0.41
9:RJ:344:TRP:CD1	9:RJ:344:TRP:H	2.37	0.41
8:RO:227:LEU:O	8:RO:231:ILE:HG12	2.20	0.41
8:RO:318:LEU:HB2	8:RO:376:CYS:HB3	2.00	0.41
9:RP:273:LEU:O	9:RP:292:GLN:NE2	2.38	0.41
12:S4:356:ASP:OD2	30:V5:333:TRP:NE1	2.53	0.41
12:S8:205:ARG:HG2	12:S8:468:ILE:HD11	2.02	0.41
12:S9:174:LEU:HB2	12:S9:322:ARG:HH12	1.85	0.41
12:S9:374:GLN:CD	12:S9:374:GLN:C	2.88	0.41
9:SD:186:THR:HG21	9:SD:385:PHE:CD2	2.55	0.41
9:SF:356:ILE:HG22	9:SF:357:PRO:O	2.20	0.41
8:SG:381:THR:OG1	8:SG:382:THR:N	2.52	0.41
8:SI:25:CYS:HA	8:SI:30:ILE:HD13	2.02	0.41
8:SI:344:VAL:HG22	8:SI:347:CYS:SG	2.60	0.41
8:SK:255:PHE:HB2	8:SK:316:CYS:SG	2.60	0.41
8:SM:271:THR:HB	8:SM:377:MET:HB3	2.02	0.41
8:SM:319:TYR:CD2	8:SM:323:VAL:HG21	2.55	0.41
14:T3:27:TYR:CZ	14:T4:278:LEU:HD12	2.55	0.41
14:T4:430:CYS:O	14:T4:434:ARG:HG2	2.20	0.41
8:TE:339:ARG:HA	8:TE:339:ARG:HD3	1.81	0.41
8:TG:53:PHE:O	8:TG:64:ARG:NH1	2.54	0.41
9:TJ:372:THR:HA	9:TJ:422:TYR:CE1	2.48	0.41
8:TK:125:LEU:HD23	8:TK:125:LEU:HA	1.87	0.41
9:TL:299:MET:HA	9:TL:299:MET:HE2	2.01	0.41
8:TM:83:TYR:HB3	8:TM:86:LEU:HB3	2.01	0.41
8:TM:83:TYR:HB3	8:TM:86:LEU:HD23	2.02	0.41
8:TM:272:TYR:HD1	8:TM:273:ALA:N	2.18	0.41
25:U:238:PHE:HB3	25:U:268:LEU:HB3	2.01	0.41
25:U:474:LYS:HA	25:U:474:LYS:HD2	1.97	0.41
30:U3:127:LYS:HA	30:U3:127:LYS:HD2	1.79	0.41
30:U3:225:CYS:HB3	30:U3:328:LEU:HD13	2.03	0.41
30:U3:323:HIS:ND1	30:U3:326:GLU:OE2	2.48	0.41
30:U3:388:PRO:HB3	30:U4:135:GLN:HE21	1.84	0.41
30:U4:121:LEU:O	30:U4:125:GLN:OE1	2.38	0.41
30:U5:334:LYS:HE2	30:U5:338:ASN:HD21	1.86	0.41
30:U6:393:GLN:HG3	30:U6:394:THR:N	2.36	0.41
30:U7:111:LEU:HB3	30:U7:115:ARG:HE	1.85	0.41
30:U7:341:LEU:HA	30:U7:341:LEU:HD13	1.82	0.41
30:U8:380:ARG:O	30:U8:380:ARG:HG2	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U9:353:VAL:HA	30:U9:356:LYS:HD2	2.01	0.41
8:UC:57:GLY:O	39:a:312:GLN:NE2	2.52	0.41
9:UD:117:LEU:HA	9:UD:120:VAL:HG22	2.03	0.41
8:UE:57:GLY:N	8:VE:285:GLN:HG3	2.33	0.41
8:UE:263:PRO:HG3	9:UF:396:HIS:CD2	2.55	0.41
8:UG:338:LYS:HE2	8:UG:340:THR:HB	2.02	0.41
9:UH:156:ARG:NH1	9:UH:197:ASP:OD1	2.34	0.41
9:UH:274:THR:OG1	9:UH:282:ARG:NH1	2.54	0.41
8:UK:122:ILE:HG21	8:UK:157:LEU:HD11	2.03	0.41
8:UM:122:ILE:HD11	8:UM:135:PHE:CE1	2.56	0.41
8:UO:421:ALA:O	8:UO:425:LEU:HD12	2.20	0.41
25:V:219:PRO:HD2	25:V:221:ARG:HH21	1.85	0.41
30:V1:196:TYR:O	30:V1:200:LYS:HG2	2.20	0.41
30:V3:110:ARG:HB3	30:V3:110:ARG:NH1	2.36	0.41
30:V3:240:ILE:HG22	30:V3:241:ARG:NH1	2.34	0.41
30:V3:329:SER:OG	30:V3:330:ASP:N	2.53	0.41
30:V3:400:THR:CG2	30:V4:283:VAL:HG11	2.39	0.41
30:V5:232:LEU:HD12	30:V5:232:LEU:HA	1.91	0.41
30:V5:374:THR:O	30:V5:377:LEU:HD12	2.21	0.41
30:V6:343:PHE:CD2	30:V6:470:MET:HE2	2.55	0.41
30:V9:423:ILE:HG13	30:V9:424:ASP:H	1.86	0.41
9:VD:30:ILE:HG13	9:VD:51:TYR:HE1	1.84	0.41
9:VD:118:ASP:O	9:VD:122:LYS:HG3	2.20	0.41
9:VH:197:ASP:OD1	9:VH:197:ASP:N	2.53	0.41
9:VH:261:PRO:HG3	8:VI:406:HIS:CD2	2.56	0.41
8:VM:217:LEU:O	8:VM:219:ILE:HG23	2.20	0.41
8:VM:245:ASP:HA	8:VM:249:ASN:HD21	1.86	0.41
9:VN:252:LYS:HD3	8:VO:100:ALA:HA	2.02	0.41
9:VN:385:PHE:HE2	9:VN:412:GLU:HB2	1.85	0.41
31:W:512:THR:CG2	31:W:521:ILE:HG22	2.41	0.41
31:W:653:LEU:HD13	31:W:657:ASP:HB2	2.02	0.41
30:W2:364:ILE:HD13	30:W2:364:ILE:HA	1.92	0.41
9:WB:313:VAL:HG13	9:WB:367:PHE:HE1	1.85	0.41
9:WB:332:ASN:O	9:WB:336:LYS:HG2	2.20	0.41
8:WC:286:LEU:HD12	8:WC:286:LEU:HA	1.88	0.41
9:WD:282:ARG:HE	9:WD:288:GLU:CD	2.28	0.41
9:WH:27:GLU:OE1	9:WH:28:HIS:N	2.54	0.41
8:WI:350:GLY:HA2	9:WJ:179:VAL:HG12	2.02	0.41
9:WJ:361:LEU:HD12	9:WJ:361:LEU:HA	1.86	0.41
9:WL:267:MET:SD	9:WL:267:MET:N	2.93	0.41
8:WO:271:THR:HA	8:WO:302:MET:HE1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WP:361:LEU:HD12	9:WP:361:LEU:HA	1.89	0.41
31:X:286:LYS:HA	31:X:333:TYR:CE2	2.55	0.41
31:X:576:VAL:HG21	31:X:732:TYR:HB3	2.02	0.41
34:X6:93:ALA:HB1	34:X6:142:LEU:HD21	2.03	0.41
34:X7:246:GLU:O	34:X7:256:PRO:HD2	2.21	0.41
31:Y:496:SER:O	31:Y:497:GLU:HG3	2.19	0.41
37:YE:167:GLY:HA2	37:YE:170:LEU:HB3	2.01	0.41
37:YH:158:HIS:HA	37:YH:161:VAL:HG22	2.02	0.41
31:Z:201:ARG:HA	31:Z:201:ARG:HD2	1.86	0.41
39:a:144:ILE:O	39:a:148:ILE:HG13	2.20	0.41
39:a:186:GLU:HA	39:a:191:LEU:HG	2.01	0.41
40:a4:24:LEU:HD23	40:a4:25:SER:N	2.35	0.41
42:e:457:LEU:HB3	42:e:488:TRP:HZ3	1.85	0.41
42:e:510:TYR:HA	42:e:517:ILE:HG22	2.02	0.41
42:f:38:HIS:HA	42:f:51:ALA:HA	2.02	0.41
42:g:105:ALA:HB2	42:g:145:ARG:HD3	2.00	0.41
42:g:522:THR:HA	42:g:547:SER:HB2	2.02	0.41
44:h2:118:MET:HG3	44:h2:119:PRO:O	2.20	0.41
45:i1:73:LYS:HD3	45:i1:73:LYS:HA	1.81	0.41
46:i2:1337:GLN:HG2	46:i2:1340:TRP:CZ3	2.55	0.41
43:j:46:MET:HE1	43:j:51:PRO:HB3	2.02	0.41
43:j:186:LYS:HB2	43:j:252:ILE:HG23	2.02	0.41
4:j1:338:LYS:O	4:j1:342:GLU:HG2	2.20	0.41
2:1:406:LEU:HD22	8:IA:281:ALA:HB1	2.03	0.41
2:2:338:ALA:HA	8:IK:282:TYR:HE2	1.85	0.41
7:A1:67:LEU:CD2	7:A1:71:ARG:HH12	2.34	0.41
7:A1:142:ILE:HD12	7:A1:256:GLN:HG2	2.02	0.41
7:A5:223:ALA:O	7:A5:226:GLU:HG3	2.21	0.41
8:AA:4:CYS:C	8:AA:5:ILE:HD13	2.45	0.41
8:AA:338:LYS:HE2	8:AA:340:THR:HB	2.03	0.41
9:AB:309:ARG:NH2	9:AB:339:SER:O	2.53	0.41
9:AF:83:GLN:HE22	25:U:148:LEU:HD22	1.84	0.41
9:AF:404:ASP:OD1	9:AF:404:ASP:N	2.41	0.41
8:AG:5:ILE:HB	8:AG:135:PHE:CD1	2.54	0.41
8:AG:317:MET:SD	8:AG:377:MET:HG2	2.60	0.41
9:AH:344:TRP:CD2	8:AI:401:LYS:NZ	2.87	0.41
8:AI:304:LYS:HE2	48:r:81:HIS:O	2.21	0.41
9:AJ:45:GLU:OE1	9:AJ:45:GLU:HA	2.19	0.41
9:AJ:323:MET:HE1	8:AK:224:TYR:CG	2.55	0.41
9:AN:58:LYS:HZ2	9:BN:280:GLN:CG	2.26	0.41
9:AN:323:MET:CE	8:AO:224:TYR:H	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B1:385:LEU:HD23	12:S3:50:TRP:CZ2	2.55	0.41
9:BB:324:LYS:HD3	8:BC:222:PRO:HD2	2.03	0.41
9:BH:32:PRO:HA	9:BH:84:ILE:HD11	2.01	0.41
9:BH:238:THR:OG1	9:BH:318:ARG:NH2	2.53	0.41
8:BI:69:ASP:O	8:BI:94:THR:HA	2.20	0.41
9:BJ:284:LEU:HG	9:BJ:363:MET:HE2	2.03	0.41
8:BK:221:ARG:O	17:L:233:GLY:N	2.49	0.41
9:BL:115:SER:O	9:BL:118:ASP:HB3	2.20	0.41
8:BM:68:VAL:HA	8:BM:93:ILE:O	2.20	0.41
8:BM:93:ILE:HD11	8:BM:121:ARG:HG2	2.01	0.41
9:BN:115:SER:O	9:BN:119:VAL:HG23	2.20	0.41
10:C:253:ASP:HA	10:C:256:ARG:HD2	2.01	0.41
10:C:423:LYS:O	10:C:427:LEU:HG	2.20	0.41
10:C:479:GLU:O	10:C:482:ARG:HB2	2.21	0.41
12:C2:117:SER:HA	12:C3:444:THR:HG21	2.02	0.41
12:C2:117:SER:O	12:C2:121:ARG:HG3	2.20	0.41
12:C2:184:GLY:O	12:C2:188:THR:HG23	2.21	0.41
12:C3:96:PRO:HG3	17:P9:92:LEU:HD21	2.03	0.41
12:C4:167:MET:HE3	12:C4:311:SER:OG	2.20	0.41
12:C4:175:THR:HG21	11:R4:415:THR:HG21	2.02	0.41
8:CC:60:LYS:NZ	8:DC:283:HIS:HB3	2.35	0.41
8:CC:132:LEU:HB3	8:CC:164:LYS:NZ	2.35	0.41
8:CG:3:GLU:OE1	8:CG:64:ARG:NH2	2.53	0.41
8:CG:111:GLY:O	8:CG:115:VAL:HG13	2.20	0.41
9:CH:354:CYS:SG	9:CH:355:ASP:N	2.93	0.41
9:CJ:117:LEU:HD11	9:CJ:154:LYS:HD3	2.01	0.41
8:CK:119:LEU:HD23	8:CK:119:LEU:HA	1.86	0.41
8:CM:84:ARG:HH22	40:a3:12:PRO:HD2	1.85	0.41
9:CN:156:ARG:HG3	9:CN:195:ASN:HB3	2.03	0.41
8:CO:46:ASP:H	31:Z:263:ARG:HH12	1.68	0.41
8:CQ:202:PHE:O	8:CQ:204:VAL:HG23	2.21	0.41
14:D3:117:LEU:HD23	14:D3:265:LEU:HD21	2.02	0.41
14:D3:191:LYS:NZ	28:Q3:121:PRO:O	2.40	0.41
14:D4:78:ARG:NH1	14:D5:331:ASP:OD2	2.54	0.41
14:D4:156:LEU:HD12	14:D4:156:LEU:HA	1.90	0.41
14:D4:162:ARG:NH1	14:D4:168:VAL:H	2.18	0.41
9:DB:41:ASP:HB3	17:H:54:SER:HA	2.00	0.41
9:DD:321:MET:HB3	8:DE:221:ARG:NH2	2.35	0.41
9:DD:322:SER:HB2	8:DE:223:THR:HB	2.02	0.41
8:DE:60:LYS:HG2	8:DE:61:HIS:N	2.35	0.41
9:DH:17:GLY:HA2	9:DH:20:PHE:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DH:86:ARG:HG2	9:DH:88:ASP:H	1.84	0.41
9:DH:402:GLY:C	9:DH:403:MET:HE2	2.45	0.41
9:DJ:249:ASP:OD1	9:DJ:252:LYS:HB2	2.20	0.41
9:DJ:324:LYS:HB2	9:DJ:324:LYS:HE2	1.84	0.41
8:DM:402:ARG:NE	8:DM:415:GLU:OE2	2.52	0.41
9:DN:346:PRO:HD2	8:DO:398:MET:HE2	2.01	0.41
8:EA:168:GLU:HB3	8:EA:201:ALA:HA	2.02	0.41
9:ED:323:MET:SD	8:EE:223:THR:HA	2.60	0.41
8:EI:195:LEU:HD13	8:EI:428:LEU:HD11	2.02	0.41
9:EJ:300:MET:HE2	9:EJ:300:MET:HB3	1.80	0.41
8:EK:150:ALA:O	8:EK:154:MET:HG3	2.20	0.41
9:EL:285:THR:HB	9:EL:287:PRO:HD2	2.01	0.41
8:EM:234:ILE:HD13	8:EM:234:ILE:HA	1.93	0.41
8:EM:317:MET:HB2	8:EM:353:VAL:HA	2.02	0.41
15:F:118:GLN:OE1	15:F:118:GLN:N	2.51	0.41
8:FA:315:CYS:HB3	8:FA:377:MET:HE1	2.02	0.41
9:FB:113:VAL:HG11	9:FB:150:LEU:HD23	2.01	0.41
9:FB:237:THR:HG22	9:FB:250:LEU:HD21	2.01	0.41
8:FE:125:LEU:HD23	8:FE:125:LEU:HA	1.87	0.41
9:FH:117:LEU:HD11	9:FH:154:LYS:HD2	2.01	0.41
8:FI:2:ARG:NH2	9:FJ:71:GLY:HA3	2.29	0.41
8:FI:192:HIS:NE2	8:FI:421:ALA:HA	2.36	0.41
8:FK:413:MET:HE3	8:FK:413:MET:HB2	1.78	0.41
8:FM:47:ASP:N	8:FM:47:ASP:OD1	2.53	0.41
8:FM:215:ARG:NH1	8:FM:299:ALA:O	2.48	0.41
9:FN:113:VAL:O	9:FN:117:LEU:HG	2.21	0.41
9:FN:182:PRO:O	9:FN:186:THR:OG1	2.31	0.41
9:FN:252:LYS:HD3	8:FO:100:ALA:HA	2.00	0.41
9:FN:323:MET:HG3	8:FO:224:TYR:CE1	2.56	0.41
9:GB:166:THR:HG23	9:GB:199:THR:HG23	2.03	0.41
9:GD:10:GLY:O	9:GD:14:ASN:ND2	2.54	0.41
8:GG:370:LYS:HA	8:GG:370:LYS:HD2	1.79	0.41
9:GL:131:GLN:NE2	9:GL:250:LEU:HD23	2.35	0.41
9:GL:372:THR:HA	9:GL:422:TYR:CE1	2.51	0.41
9:GN:208:TYR:HE1	9:GN:225:LEU:HD21	1.85	0.41
8:GO:345:ASP:OD1	8:GO:345:ASP:N	2.48	0.41
17:H:255:ARG:HD2	17:H:255:ARG:HA	1.83	0.41
8:HA:209:ILE:HD12	8:HA:227:LEU:HD23	2.01	0.41
9:HD:149:THR:HB	9:HD:191:GLN:HG2	2.01	0.41
9:HD:330:MET:HE3	9:HD:349:VAL:HG11	2.01	0.41
8:HE:6:SER:C	8:HE:7:ILE:HD12	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HE:12:ALA:HB2	50:HE:501:GTP:C8	2.56	0.41
8:HE:125:LEU:HD23	8:HE:125:LEU:HA	1.92	0.41
9:HF:288:GLU:HA	9:HF:291:GLN:CD	2.46	0.41
8:HG:294:ALA:HA	8:HG:297:GLU:OE1	2.21	0.41
8:HI:79:ARG:HH21	8:HI:94:THR:HG23	1.84	0.41
8:HM:52:PHE:C	8:HM:64:ARG:HD2	2.46	0.41
9:HN:421:GLU:HA	9:HN:424:GLN:HG2	2.02	0.41
8:HO:257:THR:HA	9:HP:397:TRP:CZ3	2.55	0.41
9:HP:40:SER:O	9:HP:43:GLN:HB2	2.20	0.41
18:I1:85:PRO:HA	18:I1:112:THR:HG21	2.03	0.41
8:IC:186:ASN:O	8:IC:190:THR:HG22	2.20	0.41
8:IE:290:GLU:H	8:IE:290:GLU:HG3	1.72	0.41
8:IE:306:ASP:HB3	8:IE:309:HIS:CD2	2.55	0.41
8:IG:8:HIS:HB2	8:IG:67:PHE:HD1	1.85	0.41
8:IG:26:LEU:HA	8:IG:26:LEU:HD23	1.74	0.41
9:IH:380:ARG:O	9:IH:384:GLN:HB3	2.20	0.41
9:IJ:208:TYR:CE2	9:IJ:225:LEU:HD21	2.55	0.41
9:IL:331:LEU:HD11	8:IM:176:GLN:HB3	2.01	0.41
8:IM:433:GLU:O	8:IM:437:VAL:HG23	2.19	0.41
8:IO:214:ARG:HD3	36:Y1:35:THR:OG1	2.20	0.41
8:IO:439:SER:OG	9:IP:390:ARG:NH2	2.53	0.41
9:IP:233:MET:H	9:IP:233:MET:HG3	1.55	0.41
19:J4:97:PRO:HG3	9:OL:227:HIS:CD2	2.54	0.41
19:J4:237:HIS:CD2	8:LO:422:ARG:NH2	2.88	0.41
19:J5:97:PRO:HG3	9:OP:227:HIS:CG	2.55	0.41
8:JE:331:ALA:O	8:JE:334:THR:OG1	2.35	0.41
9:JF:86:ARG:NH1	9:JF:87:PRO:HD2	2.22	0.41
9:JF:218:THR:HB	15:N2:14:ASN:ND2	2.24	0.41
8:JI:87:PHE:HB3	8:JI:92:LEU:HD11	2.02	0.41
8:JK:388:TRP:HA	8:JK:391:LEU:HB2	2.01	0.41
9:JL:191:GLN:N	9:JL:191:GLN:OE1	2.53	0.41
9:JL:318:ARG:HH12	9:JL:358:PRO:HB3	1.84	0.41
8:JM:214:ARG:HH12	8:JM:215:ARG:NH2	2.18	0.41
8:JM:344:VAL:HG21	8:JM:346:TRP:CE2	2.56	0.41
8:JM:346:TRP:HB3	9:JN:391:ARG:HG3	2.02	0.41
9:JN:242:PHE:HB2	9:JN:354:CYS:SG	2.60	0.41
17:K:50:LYS:HE2	17:K:50:LYS:HB2	1.90	0.41
9:KB:142:GLY:N	52:KB:502:GDP:O3B	2.43	0.41
9:KB:150:LEU:HD11	41:b2:247:LEU:HD22	2.02	0.41
9:KD:117:LEU:HD12	9:KD:121:ARG:NH1	2.35	0.41
8:KE:274:PRO:HG3	8:KE:286:LEU:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:KF:229:VAL:O	9:KF:233:MET:HG3	2.20	0.41
8:KG:425:LEU:HD12	8:KG:425:LEU:O	2.20	0.41
9:KH:309:ARG:HH12	9:KH:426:GLN:HA	1.86	0.41
8:KI:192:HIS:NE2	8:KI:420:GLU:OE2	2.50	0.41
8:KI:294:ALA:O	8:KI:300:ASN:ND2	2.51	0.41
9:KJ:404:ASP:OD1	9:KJ:405:GLU:N	2.53	0.41
8:KM:188:ILE:HD13	8:KM:188:ILE:HA	1.90	0.41
9:KN:26:ASP:OD1	9:KN:359:ARG:HD2	2.20	0.41
9:KN:116:VAL:HA	9:KN:119:VAL:HG22	2.03	0.41
8:LA:348:PRO:HB2	9:LB:384:GLN:NE2	2.35	0.41
8:LC:318:LEU:HB2	8:LC:376:CYS:HB3	2.01	0.41
9:LD:73:MET:HE1	9:LD:91:VAL:H	1.85	0.41
9:LF:8:GLN:HE21	9:LF:14:ASN:HA	1.85	0.41
9:LF:101:TRP:CE3	9:LF:187:LEU:HD23	2.56	0.41
8:LG:104:ALA:HB1	8:LG:411:GLU:OE1	2.21	0.41
8:LI:259:LEU:HD12	8:LI:259:LEU:HA	1.90	0.41
8:LM:216:ASN:HB3	8:LM:275:VAL:O	2.20	0.41
9:LN:263:LEU:HD22	9:LN:422:TYR:CZ	2.54	0.41
8:LO:258:ASN:HD21	9:LP:180:VAL:HG22	1.85	0.41
22:M2:159:LYS:HE2	27:P4:68:TYR:CE2	2.55	0.41
8:MA:49:PHE:HB2	8:MA:53:PHE:HD2	1.86	0.41
8:MA:298:PRO:HG3	8:MA:308:ARG:HE	1.86	0.41
9:MB:8:GLN:HB2	9:MB:65:LEU:HA	2.02	0.41
9:MD:383:GLU:OE1	45:l:5:TYR:OH	2.35	0.41
9:MF:158:GLU:HB2	9:MF:159:TYR:CD1	2.55	0.41
9:MF:375:GLN:HE22	9:MF:423:GLN:HG3	1.85	0.41
9:MH:133:PHE:HB2	9:MH:164:MET:SD	2.60	0.41
9:MH:375:GLN:NE2	9:MH:423:GLN:OE1	2.48	0.41
8:MI:75:VAL:HG11	8:MI:92:LEU:HB3	2.01	0.41
8:MO:108:TYR:HA	8:MO:112:LYS:HE3	2.03	0.41
9:MP:170:VAL:HG21	9:MP:377:LEU:HD21	2.03	0.41
9:MP:431:GLU:OE1	9:MP:431:GLU:N	2.52	0.41
9:NB:299:MET:N	9:NB:299:MET:HE2	2.35	0.41
8:NC:132:LEU:HD21	8:NC:164:LYS:HD3	2.02	0.41
9:ND:261:PRO:HG3	8:NE:406:HIS:CD2	2.55	0.41
9:NF:150:LEU:O	9:NF:154:LYS:NZ	2.52	0.41
9:NH:272:PRO:C	9:NH:273:LEU:HD23	2.45	0.41
9:NL:345:ILE:HB	9:NL:348:ASN:OD1	2.20	0.41
9:NP:295:ASP:O	9:NP:299:MET:HE1	2.19	0.41
24:O4:93:GLY:O	24:O4:97:ARG:HG3	2.21	0.41
24:O4:110:SER:O	24:O4:114:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O4:167:MET:HA	24:O4:167:MET:HE3	2.02	0.41
25:O5:339:GLY:O	40:a4:148:GLN:NE2	2.53	0.41
17:O7:242:GLN:HA	17:O7:245:ASP:OD2	2.19	0.41
17:O7:264:ARG:HA	17:O7:264:ARG:HD3	1.55	0.41
8:OA:32:PRO:O	8:OA:85:GLN:NE2	2.53	0.41
8:OC:283:HIS:HD1	8:OC:283:HIS:H	1.67	0.41
8:OG:7:ILE:HD13	8:OG:66:VAL:HG12	2.02	0.41
8:OG:223:THR:OG1	8:OG:224:TYR:N	2.53	0.41
9:OH:309:ARG:HG3	9:OH:426:GLN:HG3	2.01	0.41
8:OI:102:ASN:ND2	8:OI:105:ARG:HG3	2.35	0.41
8:OI:214:ARG:NH2	36:Y4:77:LEU:HD11	2.35	0.41
9:OJ:324:LYS:HE2	8:OK:222:PRO:HB2	2.02	0.41
8:OK:210:TYR:HD1	8:OK:210:TYR:H	1.68	0.41
8:OM:152:LEU:HD12	8:OM:153:LEU:N	2.36	0.41
8:OO:9:VAL:HG21	8:OO:153:LEU:HD21	2.02	0.41
8:OO:201:ALA:HB3	8:OO:267:PHE:CE1	2.56	0.41
8:OO:294:ALA:HA	8:OO:297:GLU:CD	2.46	0.41
8:OO:396:ASP:HB2	8:OO:422:ARG:HH22	1.85	0.41
9:OP:42:LEU:HD23	9:OP:356:ILE:HD11	2.02	0.41
9:OP:328:GLU:HA	9:OP:331:LEU:HG	2.03	0.41
26:P2:111:LYS:HG3	26:P2:115:THR:HB	2.01	0.41
27:P3:143:ALA:HB3	27:P3:146:VAL:CG1	2.50	0.41
8:PE:265:ILE:HG21	8:PE:313:MET:HE1	2.03	0.41
8:PG:203:MET:HE1	8:PG:303:VAL:HG13	2.02	0.41
8:PG:254:GLU:OE1	8:PG:254:GLU:N	2.46	0.41
8:PG:265:ILE:HG22	8:PG:380:ASN:HD21	1.85	0.41
8:PG:345:ASP:OD1	8:PG:345:ASP:N	2.53	0.41
9:PH:183:TYR:CE1	9:PH:388:MET:SD	3.14	0.41
8:PI:367:ASP:OD1	8:PI:367:ASP:N	2.53	0.41
9:PJ:238:THR:HG23	9:PJ:241:ARG:NH2	2.35	0.41
28:Q3:84:ASP:O	28:Q3:86:PRO:HD2	2.19	0.41
9:QB:314:ALA:HB3	9:QB:368:ILE:HB	2.01	0.41
9:QB:371:SER:O	9:QB:422:TYR:OH	2.32	0.41
8:QC:201:ALA:O	8:QC:268:PRO:HD2	2.21	0.41
8:QC:261:PRO:HG3	8:QC:313:MET:SD	2.60	0.41
9:QD:248:ALA:HA	9:QD:252:LYS:HG3	2.02	0.41
9:QD:261:PRO:HG3	8:QE:406:HIS:CD2	2.55	0.41
9:QF:231:ALA:HB1	9:QF:270:PHE:CZ	2.56	0.41
9:QH:222:TYR:CD1	9:QH:225:LEU:HD12	2.56	0.41
8:QI:384:ILE:HG12	8:QI:388:TRP:HE1	1.85	0.41
8:QK:111:GLY:O	8:QK:115:VAL:HG23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QO:184:PRO:O	8:QO:188:ILE:HG12	2.20	0.41
8:QO:377:MET:HE1	8:QO:379:SER:HB3	2.01	0.41
9:QP:270:PHE:CD2	9:QP:272:PRO:HD2	2.55	0.41
9:QP:271:ALA:HB1	9:QP:289:LEU:HD22	2.02	0.41
11:R1:243:ILE:HD13	11:R1:243:ILE:HA	1.95	0.41
11:R3:318:LEU:O	11:R3:322:THR:HG23	2.20	0.41
8:RC:209:ILE:H	8:RC:209:ILE:HG13	1.67	0.41
9:RF:148:GLY:HA2	9:RF:151:LEU:HD12	2.03	0.41
9:RH:21:TRP:CH2	9:RH:50:TYR:HB3	2.55	0.41
8:RI:151:SER:HA	8:RI:193:THR:HG21	2.02	0.41
9:RJ:20:PHE:CE2	9:RJ:233:MET:HE1	2.55	0.41
8:RK:212:ILE:HG22	8:RK:216:ASN:ND2	2.34	0.41
12:S0:348:THR:O	12:S0:351:ILE:HG22	2.19	0.41
12:S1:72:SER:O	12:S1:72:SER:OG	2.35	0.41
12:S1:120:LEU:O	12:S1:124:THR:HG22	2.20	0.41
12:S2:127:LEU:O	12:S2:131:LYS:HG2	2.20	0.41
12:S2:248:ARG:HG3	12:S7:196:ARG:HH21	1.86	0.41
12:S3:157:LYS:HG3	12:S3:258:LEU:HD11	2.02	0.41
12:S8:154:ALA:HA	12:S8:157:LYS:HE3	2.03	0.41
9:SB:293:MET:HE2	9:SB:367:PHE:CB	2.49	0.41
8:SC:137:ILE:HG21	8:SC:154:MET:HE2	2.02	0.41
8:SE:286:LEU:O	8:SE:373:ARG:NH1	2.53	0.41
9:SF:91:VAL:HG11	9:SF:116:VAL:HG22	2.01	0.41
8:SG:21:TRP:CH2	8:SG:52:PHE:HB3	2.56	0.41
9:SH:262:ARG:HH21	9:SH:418:LEU:HD22	1.85	0.41
8:SM:203:MET:HE1	8:SM:267:PHE:CD1	2.55	0.41
9:SN:27:GLU:H	9:SN:27:GLU:HG3	1.68	0.41
9:SN:205:GLU:HA	9:SN:208:TYR:HB3	2.02	0.41
9:SN:233:MET:HE3	9:SN:233:MET:HB2	1.82	0.41
25:T:110:SER:OG	25:T:113:GLU:O	2.34	0.41
14:T2:163:GLN:HE21	14:T2:163:GLN:HB3	1.73	0.41
14:T2:239:GLN:CD	14:T2:240:PHE:H	2.29	0.41
14:T3:441:LEU:HD12	14:T3:441:LEU:HA	1.93	0.41
14:T4:73:TYR:HD2	14:T4:76:ARG:HH12	1.68	0.41
8:TA:227:LEU:O	8:TA:231:ILE:HG12	2.20	0.41
8:TA:381:THR:OG1	8:TA:382:THR:N	2.53	0.41
8:TC:298:PRO:HG3	8:TC:308:ARG:NE	2.35	0.41
9:TD:371:SER:O	9:TD:422:TYR:OH	2.29	0.41
8:TE:296:PHE:CE1	8:TE:341:ILE:HD12	2.55	0.41
9:TJ:144:GLY:O	9:TJ:148:GLY:HA3	2.20	0.41
9:TJ:151:LEU:H	9:TJ:151:LEU:HD23	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:U:97:LEU:HB2	25:U:124:TYR:HB3	2.02	0.41
25:U:483:ILE:HD13	25:U:483:ILE:HA	1.84	0.41
30:U1:189:GLN:O	30:U1:193:GLU:HG2	2.21	0.41
30:U5:323:HIS:O	30:U5:327:THR:HG23	2.20	0.41
30:U6:332:MET:HG3	30:U6:476:PHE:HZ	1.86	0.41
8:UA:108:TYR:HA	8:UA:112:LYS:HE3	2.02	0.41
8:UA:136:LEU:HB3	8:UA:138:PHE:CZ	2.55	0.41
8:UC:292:THR:HG21	8:UC:331:ALA:HB1	2.02	0.41
9:UD:205:GLU:HA	9:UD:208:TYR:CD1	2.55	0.41
8:UE:311:LYS:H	8:UE:382:THR:HG22	1.85	0.41
9:UF:66:VAL:HA	9:UF:91:VAL:O	2.20	0.41
8:UI:397:LEU:HD12	8:UI:398:MET:HE2	2.02	0.41
25:V:45:MET:O	25:V:45:MET:SD	2.79	0.41
25:V:421:ARG:HB2	25:V:509:ASP:OD2	2.20	0.41
30:V0:367:GLU:HA	30:V0:370:GLN:CD	2.45	0.41
30:V4:154:SER:HB3	30:V4:158:TYR:OH	2.20	0.41
30:V4:472:MET:SD	30:V4:472:MET:N	2.94	0.41
30:V7:263:ILE:HD11	30:W0:175:ARG:HH12	1.86	0.41
30:V7:279:PHE:HB2	30:V7:283:VAL:HG11	2.02	0.41
30:V7:384:ALA:HA	30:V7:387:TYR:CE2	2.56	0.41
30:V8:298:LYS:HD3	30:V8:298:LYS:HA	1.84	0.41
8:VA:21:TRP:CE3	8:VA:24:TYR:HD2	2.39	0.41
9:VD:317:PHE:HB3	9:VD:321:MET:HE1	2.02	0.41
9:VF:103:LYS:HB3	9:VF:103:LYS:HE2	1.86	0.41
9:VH:170:VAL:HG11	9:VH:377:LEU:HD11	2.02	0.41
9:VH:210:ILE:HA	9:VH:297:LYS:HZ3	1.84	0.41
8:VI:141:PHE:HB2	8:VI:173:PRO:HD3	2.02	0.41
8:VK:9:VAL:HG13	8:VK:149:PHE:CE1	2.55	0.41
8:VK:317:MET:HE3	8:VK:317:MET:HA	2.01	0.41
9:VL:195:ASN:C	9:VL:196:THR:HG1	2.28	0.41
9:VN:119:VAL:O	9:VN:123:GLU:HG2	2.20	0.41
9:VN:325:GLU:HG3	8:VO:221:ARG:CZ	2.50	0.41
31:W:57:HIS:HE2	33:X4:111:THR:HG22	1.86	0.41
31:W:524:ASN:OD1	31:W:525:ALA:N	2.53	0.41
30:W5:317:LEU:HD23	30:W5:317:LEU:HA	1.87	0.41
30:W7:145:ARG:HB3	30:W7:148:ASP:HB2	2.03	0.41
8:WA:155:GLU:HA	8:WA:197:HIS:ND1	2.35	0.41
8:WA:214:ARG:NE	8:WA:220:GLU:O	2.44	0.41
8:WC:112:LYS:HB2	8:WC:112:LYS:HE2	1.88	0.41
9:WD:211:CYS:HB3	9:WD:220:PRO:HG3	2.02	0.41
9:WF:210:ILE:HD13	9:WF:213:ARG:HH22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WG:269:LEU:HD13	8:WG:303:VAL:HG21	2.01	0.41
9:WJ:310:TYR:N	9:WJ:340:TYR:O	2.42	0.41
8:WK:223:THR:O	8:WK:227:LEU:HD13	2.20	0.41
31:X:19:ARG:O	31:X:44:GLY:HA2	2.20	0.41
35:XE:86:TYR:HB3	35:XE:108:TYR:CE1	2.55	0.41
35:XF:116:PRO:HB2	35:XF:117:PHE:CD1	2.55	0.41
35:XG:111:THR:HG1	35:XG:113:ARG:HH21	1.67	0.41
37:YC:114:GLY:O	37:YC:118:MET:HB2	2.21	0.41
37:YG:52:LYS:HE3	37:YG:52:LYS:HB3	1.90	0.41
37:YG:114:GLY:O	37:YG:118:MET:HG2	2.19	0.41
37:YH:57:ARG:HG3	37:YH:107:TYR:CZ	2.55	0.41
31:Z:280:ARG:CZ	31:Z:280:ARG:HB2	2.50	0.41
40:a2:103:PRO:HA	40:a2:104:PRO:HD3	1.95	0.41
39:a6:124:LEU:HD12	39:a6:127:ARG:HG2	2.02	0.41
39:b:476:ASN:OD1	39:b:480:ARG:NE	2.27	0.41
41:b2:193:ASP:OD1	41:b2:194:LYS:N	2.47	0.41
41:b3:201:TRP:HA	41:b3:204:LYS:HE2	2.01	0.41
39:c:448:ARG:HA	39:c:451:ARG:NH2	2.36	0.41
39:c:456:GLN:O	39:c:460:GLU:HG2	2.20	0.41
42:e:39:LEU:HG	42:e:52:ILE:HG12	2.02	0.41
42:e:329:THR:HG23	42:e:359:TRP:HZ3	1.85	0.41
42:e:333:GLU:HG3	42:e:353:LYS:HD3	2.02	0.41
42:e:504:LEU:O	42:e:506:GLN:NE2	2.46	0.41
42:f:230:LEU:HD23	42:f:230:LEU:HA	1.62	0.41
42:f:398:ILE:HB	42:f:412:ILE:HD11	2.02	0.41
42:g:220:PHE:HE1	42:g:234:PRO:HB3	1.84	0.41
44:h2:50:GLY:C	44:h2:52:ILE:H	2.29	0.41
46:i2:1337:GLN:HA	46:i2:1340:TRP:CE3	2.55	0.41
46:i4:1347:CYS:HB3	46:i4:1396:TYR:CE1	2.56	0.41
48:s:96:GLN:O	48:s:100:GLU:HG3	2.20	0.41
49:y:118:GLN:OE1	49:y:118:GLN:N	2.38	0.41
3:3:173:GLU:HG2	8:GK:372:GLN:HE22	1.84	0.41
3:4:497:LEU:HG	3:4:499:GLN:N	2.35	0.41
4:5:46:LEU:HD21	4:5:57:HIS:CD2	2.56	0.41
4:6:125:ALA:O	4:6:129:ILE:HD12	2.20	0.41
4:6:205:THR:HB	30:W0:164:LEU:HD12	2.01	0.41
6:A:54:THR:O	6:A:58:GLU:HG2	2.21	0.41
7:A1:232:LEU:HD23	7:A1:232:LEU:HA	1.86	0.41
7:A3:136:LEU:HD23	7:A3:136:LEU:HA	1.86	0.41
7:A5:67:LEU:HD21	7:A5:71:ARG:HE	1.85	0.41
8:AA:125:LEU:HD23	8:AA:125:LEU:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AA:259:LEU:HD12	8:AA:259:LEU:HA	1.85	0.41
9:AD:180:VAL:HG23	9:AD:184:ASN:HD21	1.84	0.41
9:AD:258:VAL:HB	8:AE:407:TRP:HZ2	1.86	0.41
9:AF:1:MET:O	9:AF:129:CYS:HB3	2.20	0.41
9:AF:414:ASN:OD1	37:YC:175:ARG:NH1	2.53	0.41
9:AH:192:LEU:HD12	9:AH:192:LEU:HA	1.96	0.41
8:AI:2:ARG:HB3	8:AI:133:GLN:HG3	2.01	0.41
8:AI:55:GLU:OE1	8:AI:61:HIS:NE2	2.53	0.41
9:AJ:112:LEU:O	9:AJ:116:VAL:HG22	2.20	0.41
9:AL:232:THR:HG21	9:AL:268:PRO:HB2	2.02	0.41
8:AM:15:GLN:HB3	8:AM:228:ASN:HD21	1.85	0.41
9:AN:330:MET:HA	9:AN:333:VAL:HG12	2.02	0.41
8:AO:40:LYS:HZ3	33:X5:96:VAL:HG23	1.84	0.41
9:AP:87:PRO:HD3	9:BP:281:TYR:CD2	2.55	0.41
9:AP:167:PHE:CE1	9:AP:233:MET:HG3	2.55	0.41
11:B3:295:GLY:HA2	11:B3:298:ARG:CZ	2.51	0.41
11:B4:162:LEU:HD23	11:B4:162:LEU:HA	1.95	0.41
8:BE:239:THR:HB	8:BE:243:ARG:NH1	2.34	0.41
8:BG:28:HIS:CE1	8:BG:243:ARG:HD2	2.55	0.41
9:BH:249:ASP:H	9:BH:252:LYS:HB3	1.86	0.41
8:BI:124:LYS:HE3	8:BI:124:LYS:HB2	1.89	0.41
9:BJ:67:ASP:OD2	9:BJ:72:THR:HB	2.20	0.41
8:BK:385:ALA:HA	8:BK:388:TRP:CZ3	2.55	0.41
9:BN:276:ARG:HA	25:O5:116:ARG:HH22	1.85	0.41
8:BO:111:GLY:O	8:BO:115:VAL:HG23	2.20	0.41
10:C:222:LYS:HB2	10:C:222:LYS:HE3	1.64	0.41
12:C2:123:ASP:OD1	12:C2:126:ARG:NH1	2.53	0.41
12:C2:401:ASP:OD2	12:C2:405:ARG:NH2	2.53	0.41
12:C4:320:LYS:HA	12:C4:320:LYS:HD3	1.77	0.41
9:CB:11:GLN:HA	9:CB:72:THR:HG21	2.02	0.41
9:CB:171:PRO:C	9:CB:380:ARG:HH22	2.21	0.41
9:CB:182:PRO:O	9:CB:186:THR:OG1	2.33	0.41
9:CB:232:THR:HG21	9:CB:268:PRO:HB2	2.02	0.41
8:CE:313:MET:HE3	8:CE:313:MET:HB3	1.83	0.41
9:CF:58:LYS:HE3	9:CF:58:LYS:HB3	1.90	0.41
9:CJ:238:THR:HG21	9:CJ:318:ARG:HG2	2.02	0.41
9:CJ:252:LYS:NZ	50:CK:501:GTP:O3G	2.36	0.41
9:CJ:266:PHE:CE1	9:CJ:370:ASN:HB2	2.55	0.41
9:CN:19:LYS:HA	9:CN:19:LYS:HD2	1.87	0.41
9:CN:293:MET:HG2	9:CN:293:MET:H	1.64	0.41
14:D2:95:THR:HG22	14:D3:380:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:D2:154:ASP:HB2	28:Q2:116:MET:HE1	2.02	0.41
14:D2:307:ARG:HD2	14:D2:307:ARG:HA	1.70	0.41
14:D2:377:LEU:O	14:D2:380:GLU:HB2	2.20	0.41
14:D4:136:LEU:HB3	14:D4:140:ARG:NH1	2.26	0.41
9:DB:39:ASP:HA	17:H:52:PRO:HD2	2.03	0.41
9:DB:304:ASP:OD2	9:DB:306:ARG:NH2	2.53	0.41
8:DI:326:LYS:HD3	9:DJ:212:PHE:HZ	1.85	0.41
9:DJ:199:THR:O	9:DJ:266:PHE:N	2.49	0.41
8:DM:125:LEU:HD23	8:DM:125:LEU:HA	1.86	0.41
9:DN:403:MET:N	9:DN:403:MET:HE2	2.35	0.41
8:DQ:390:ARG:HA	8:DQ:390:ARG:NE	2.36	0.41
8:EA:102:ASN:ND2	8:EA:105:ARG:HG3	2.36	0.41
8:EA:166:LYS:N	8:EA:199:ASP:OD2	2.40	0.41
9:EB:66:VAL:HG11	9:EB:147:MET:HE1	2.02	0.41
9:EB:325:GLU:HG3	8:EC:221:ARG:HG2	2.02	0.41
8:EC:260:VAL:HB	9:ED:397:TRP:HZ2	1.86	0.41
8:EE:35:GLN:NE2	8:EE:58:ALA:O	2.41	0.41
8:EE:297:GLU:O	8:EE:301:GLN:NE2	2.41	0.41
9:EF:403:MET:HE2	9:EF:403:MET:N	2.35	0.41
8:EG:53:PHE:HB3	8:EG:61:HIS:HB3	2.02	0.41
9:EH:199:THR:N	9:EH:264:HIS:O	2.52	0.41
8:EI:45:GLY:HA2	31:Y:466:PHE:CD2	2.55	0.41
9:EN:176:SER:OG	9:EN:181:GLU:OE1	2.33	0.41
8:EO:183:GLU:HA	8:EO:186:ASN:HD22	1.85	0.41
15:F:100:VAL:HA	15:F:103:GLN:NE2	2.35	0.41
15:F:105:SER:OG	15:F:107:ASP:OD1	2.32	0.41
8:FG:258:ASN:ND2	9:FH:179:VAL:H	2.19	0.41
9:FH:376:GLU:HG2	9:FH:380:ARG:NH1	2.35	0.41
8:FI:88:HIS:NE2	8:GI:284:GLU:HG3	2.35	0.41
9:FJ:23:VAL:O	9:FJ:27:GLU:HG2	2.21	0.41
9:FJ:252:LYS:HA	8:FK:100:ALA:HB1	2.02	0.41
8:FM:23:LEU:HD11	8:FM:236:SER:HB2	2.01	0.41
8:FM:259:LEU:HD12	8:FM:259:LEU:HA	1.85	0.41
9:FN:229:VAL:C	9:FN:233:MET:HE3	2.45	0.41
8:FO:52:PHE:HE2	8:FO:243:ARG:HD3	1.86	0.41
8:FO:52:PHE:CE2	8:FO:243:ARG:HD3	2.55	0.41
8:GC:124:LYS:HA	8:GC:124:LYS:HD2	1.79	0.41
9:GD:133:PHE:HB2	9:GD:164:MET:HE1	2.03	0.41
9:GD:321:MET:N	9:GD:321:MET:SD	2.94	0.41
9:GF:138:SER:HA	9:GF:169:VAL:HB	2.02	0.41
9:GF:368:ILE:HD13	9:GF:368:ILE:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GF:374:ILE:HG12	9:GF:422:TYR:CZ	2.55	0.41
8:GG:223:THR:OG1	8:GG:224:TYR:N	2.54	0.41
9:GH:24:ILE:HG23	9:GH:28:HIS:HD2	1.86	0.41
8:GI:30:ILE:HG22	8:GI:34:GLY:HA2	2.02	0.41
8:GI:69:ASP:OD1	8:GI:70:LEU:N	2.52	0.41
8:GI:166:LYS:N	8:GI:199:ASP:OD2	2.41	0.41
9:GJ:199:THR:HB	9:GJ:265:PHE:HD1	1.86	0.41
8:GM:2:ARG:HB2	8:GM:242:LEU:HD21	2.03	0.41
9:GN:372:THR:HA	9:GN:422:TYR:CE1	2.48	0.41
9:HB:103:LYS:HB3	9:HB:103:LYS:HE2	1.88	0.41
9:HB:152:ILE:HG13	9:HB:152:ILE:H	1.63	0.41
9:HB:310:TYR:CD1	9:HB:371:SER:HB2	2.56	0.41
8:HC:344:VAL:HG22	8:HC:347:CYS:SG	2.60	0.41
9:HF:403:MET:HB2	9:HF:407:GLU:OE1	2.20	0.41
8:HG:134:GLY:N	8:HG:164:LYS:HZ1	2.17	0.41
9:HH:323:MET:H	9:HH:323:MET:HG2	1.43	0.41
9:HJ:30:ILE:HD12	9:HJ:59:TYR:HD2	1.86	0.41
8:HK:252:LEU:HA	8:HK:255:PHE:CE2	2.56	0.41
9:HL:202:ILE:HD13	9:HL:202:ILE:HA	1.85	0.41
9:HL:392:LYS:HA	9:HL:392:LYS:HD3	1.88	0.41
9:HN:143:THR:HG1	52:HN:502:GDP:PB	2.41	0.41
9:HP:156:ARG:O	9:HP:156:ARG:NH1	2.43	0.41
9:IB:233:MET:H	9:IB:233:MET:HG3	1.58	0.41
8:IC:385:ALA:HA	8:IC:388:TRP:CZ3	2.55	0.41
9:ID:275:SER:O	9:ID:278:SER:OG	2.36	0.41
9:IF:47:ILE:HD11	9:IF:51:TYR:CD1	2.55	0.41
8:IG:51:THR:HG21	8:IG:243:ARG:HA	2.02	0.41
8:IG:110:ILE:O	8:IG:110:ILE:HG13	2.20	0.41
9:IL:306:ARG:NH1	36:Y1:89:ILE:HG23	2.36	0.41
9:IP:21:TRP:CZ3	9:IP:51:TYR:HE1	2.38	0.41
9:IP:49:VAL:HG11	9:IP:240:LEU:HD11	2.03	0.41
9:IP:249:ASP:N	9:IP:249:ASP:OD1	2.53	0.41
19:J2:46:GLU:OE1	19:J2:68:LEU:N	2.53	0.41
19:J3:68:LEU:HA	8:OG:221:ARG:HE	1.85	0.41
19:J4:30:PRO:HA	19:J4:31:PRO:HD3	1.96	0.41
19:J5:132:LEU:HD22	19:J5:141:TYR:HB2	2.02	0.41
9:JB:70:PRO:HA	9:JB:73:MET:HG2	2.03	0.41
9:JB:388:MET:HE3	9:JB:388:MET:N	2.34	0.41
9:JD:186:THR:HG21	9:JD:385:PHE:CG	2.55	0.41
8:JE:319:TYR:HB3	8:JE:323:VAL:HG11	2.02	0.41
9:JF:1:MET:HA	8:JG:96:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JG:204:VAL:HG23	8:JG:302:MET:HG2	2.01	0.41
9:JH:50:TYR:HE2	9:JH:241:ARG:HD3	1.86	0.41
8:JK:201:ALA:O	8:JK:268:PRO:HD2	2.20	0.41
8:JK:310:GLY:HA3	8:JK:383:ALA:HB2	2.02	0.41
9:JP:113:VAL:HG21	9:JP:150:LEU:HD23	2.02	0.41
9:JP:180:VAL:HG23	9:JP:184:ASN:ND2	2.35	0.41
8:KA:211:ASP:O	8:KA:215:ARG:HG2	2.21	0.41
8:KA:312:TYR:CE2	8:KA:341:ILE:HG23	2.55	0.41
8:KC:263:PRO:HG3	9:KD:396:HIS:CD2	2.55	0.41
9:KH:12:CYS:O	9:KH:16:ILE:HG22	2.20	0.41
9:KH:318:ARG:HB3	9:KH:364:SER:OG	2.20	0.41
8:KI:88:HIS:CD2	8:LI:284:GLU:OE2	2.73	0.41
8:KI:169:PHE:HA	8:KI:202:PHE:HB2	2.02	0.41
9:KJ:24:ILE:HD13	9:KJ:241:ARG:NH1	2.36	0.41
9:KJ:321:MET:HE3	9:KJ:321:MET:HB3	1.96	0.41
8:KK:412:GLY:HA2	41:b4:152:ARG:CZ	2.51	0.41
8:KM:123:ARG:NH1	41:b4:382:LEU:HD11	2.35	0.41
9:KN:33:THR:O	9:KN:58:LYS:NZ	2.45	0.41
9:KN:186:THR:HA	9:KN:189:VAL:HG22	2.02	0.41
8:LC:396:ASP:O	8:LC:399:TYR:N	2.52	0.41
8:LE:312:TYR:CE2	8:LE:341:ILE:HG23	2.55	0.41
9:LF:68:LEU:HB2	9:LF:143:THR:HG21	2.02	0.41
8:LG:131:GLY:HA2	45:m:22:TRP:CZ2	2.51	0.41
8:LG:172:TYR:HB2	8:LG:203:MET:HB3	2.01	0.41
8:LG:419:SER:O	8:LG:423:GLU:HG3	2.21	0.41
9:LH:162:ARG:NH1	9:LH:251:ARG:HH22	2.19	0.41
8:LI:280:LYS:HB3	8:LI:280:LYS:HE3	1.66	0.41
8:LI:339:ARG:HD2	41:b3:379:LYS:HD2	2.02	0.41
8:LI:346:TRP:HZ2	8:LI:435:VAL:HG13	1.84	0.41
9:LJ:5:VAL:HG22	9:LJ:62:ARG:HD2	2.01	0.41
9:LL:240:LEU:HD13	9:LL:249:ASP:HB2	2.03	0.41
8:LM:339:ARG:HG2	41:b4:382:LEU:HA	2.01	0.41
9:LN:390:ARG:NE	44:h4:42:LEU:HD21	2.33	0.41
8:MA:2:ARG:HA	8:MA:133:GLN:CD	2.45	0.41
8:ME:208:ALA:O	8:ME:212:ILE:HG12	2.20	0.41
8:MK:68:VAL:HG11	8:MK:149:PHE:CE2	2.54	0.41
9:ML:252:LYS:HZ1	8:MM:100:ALA:HA	1.84	0.41
9:MN:407:GLU:HA	9:MN:410:GLU:HG2	2.01	0.41
8:MO:263:PRO:HG3	9:MP:396:HIS:CD2	2.55	0.41
9:MP:238:THR:HG21	9:MP:318:ARG:HD3	2.02	0.41
6:N1:70:ARG:HA	6:N1:70:ARG:HD3	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NC:115:VAL:O	8:NC:119:LEU:HD13	2.21	0.41
9:ND:293:MET:HE1	9:ND:366:THR:C	2.45	0.41
9:ND:379:LYS:O	9:ND:383:GLU:HG2	2.20	0.41
9:ND:396:HIS:HA	9:ND:399:THR:OG1	2.21	0.41
8:NG:70:LEU:HD23	8:NG:145:THR:HG23	2.02	0.41
8:NG:174:ALA:HB3	8:NG:177:VAL:O	2.21	0.41
8:NI:201:ALA:O	8:NI:268:PRO:HD2	2.21	0.41
8:NK:8:HIS:CE1	8:NK:65:ALA:HB1	2.47	0.41
8:NK:153:LEU:HA	8:NK:156:ARG:NH2	2.35	0.41
9:NL:68:LEU:HD23	9:NL:93:GLY:HA3	2.02	0.41
9:NL:213:ARG:NE	9:NL:297:LYS:HD3	2.35	0.41
8:NM:91:GLN:HG2	8:NM:121:ARG:NH1	2.35	0.41
24:O3:47:ILE:HD13	24:O3:102:LEU:HB2	2.03	0.41
8:OA:48:SER:OG	8:OA:243:ARG:O	2.32	0.41
9:OD:14:ASN:HD21	9:OD:67:ASP:HB2	1.86	0.41
9:OD:36:TYR:HB2	9:OD:59:TYR:HE2	1.84	0.41
8:OE:292:THR:HG23	8:OE:335:ILE:HD11	2.03	0.41
9:OF:173:PRO:HD3	9:OF:380:ARG:NH1	2.36	0.41
8:OG:86:LEU:HD12	8:OG:86:LEU:HA	1.84	0.41
9:OH:167:PHE:CE2	9:OH:233:MET:HG2	2.55	0.41
8:OI:60:LYS:HE2	8:OI:60:LYS:HB2	1.80	0.41
8:OK:175:PRO:HB3	8:OK:390:ARG:NE	2.35	0.41
8:OK:245:ASP:HA	8:OK:249:ASN:HD21	1.84	0.41
9:OL:105:HIS:HB3	9:OL:106:TYR:CD1	2.54	0.41
9:ON:362:LYS:HE3	9:ON:362:LYS:HB2	1.81	0.41
8:OO:216:ASN:HD22	8:OO:275:VAL:HG13	1.85	0.41
8:OO:263:PRO:HG3	9:OP:396:HIS:CD2	2.56	0.41
23:P:102:ARG:HA	23:P:102:ARG:HD3	1.90	0.41
26:P1:78:THR:HG22	26:P1:80:ALA:H	1.85	0.41
9:PB:42:LEU:HG	9:PB:242:PHE:CE2	2.55	0.41
8:PC:7:ILE:HD12	8:PC:137:ILE:HG13	2.03	0.41
9:PD:139:LEU:HD12	9:PD:170:VAL:HA	2.02	0.41
9:PF:328:GLU:O	9:PF:331:LEU:HD12	2.20	0.41
8:PG:191:THR:HG21	8:PG:425:LEU:HD22	2.02	0.41
8:PI:27:GLU:OE2	8:PI:236:SER:OG	2.33	0.41
8:PI:397:LEU:HD13	8:PI:397:LEU:HA	1.94	0.41
8:PK:172:TYR:N	8:PK:204:VAL:O	2.39	0.41
9:PL:156:ARG:HG3	9:PL:195:ASN:HB3	2.02	0.41
8:PM:413:MET:HE3	8:PM:417:GLU:HB2	2.02	0.41
9:PN:267:MET:CE	9:PN:374:ILE:HB	2.50	0.41
9:PN:324:LYS:HG2	8:PO:222:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PP:22:GLU:HG3	9:PP:81:PHE:HB2	2.03	0.41
9:PP:26:ASP:O	9:PP:359:ARG:NH1	2.54	0.41
23:Q:317:LEU:HD13	23:Q:317:LEU:HA	1.81	0.41
28:Q4:25:HIS:O	28:Q4:25:HIS:CG	2.73	0.41
28:Q4:38:ARG:HG2	28:Q4:39:TRP:CD2	2.56	0.41
8:QC:231:ILE:HA	8:QC:234:ILE:HG12	2.03	0.41
9:QF:134:GLN:OE1	9:QF:165:ASN:HB2	2.20	0.41
8:QG:183:GLU:HG3	8:QG:184:PRO:HD3	2.01	0.41
8:QG:211:ASP:HB3	8:QG:215:ARG:HE	1.85	0.41
9:QH:64:VAL:HG21	9:QH:120:VAL:HG12	2.03	0.41
8:QI:33:ASP:N	8:QI:33:ASP:OD1	2.46	0.41
9:QJ:189:VAL:HA	9:QJ:192:LEU:HB3	2.02	0.41
9:QL:68:LEU:HD23	9:QL:68:LEU:HA	1.88	0.41
8:QM:166:LYS:N	8:QM:199:ASP:OD2	2.40	0.41
29:R:18:LYS:O	29:R:21:ILE:HG22	2.20	0.41
11:R1:371:ALA:O	11:R1:375:ALA:N	2.53	0.41
11:R3:369:HIS:CE1	11:R4:24:LEU:HD12	2.56	0.41
9:RF:263:LEU:HD22	9:RF:422:TYR:HD2	1.86	0.41
9:RF:319:GLY:HA3	9:RF:363:MET:HE1	2.02	0.41
8:RG:312:TYR:CE2	8:RG:341:ILE:HG23	2.55	0.41
8:RI:36:MET:HG2	8:RI:61:HIS:NE2	2.34	0.41
9:RJ:261:PRO:HG3	8:RK:406:HIS:CD2	2.56	0.41
9:RJ:331:LEU:HD22	8:RK:177:VAL:HG13	2.02	0.41
8:RK:276:ILE:HD11	8:RK:281:ALA:HA	2.03	0.41
9:RL:24:ILE:HG22	9:RL:241:ARG:HH12	1.85	0.41
12:S0:179:ARG:O	12:S0:182:GLU:HG3	2.19	0.41
12:S0:264:ALA:O	12:S0:267:ILE:HG22	2.20	0.41
12:S2:216:GLU:O	12:S2:220:LEU:HD12	2.21	0.41
12:S8:337:TRP:HD1	12:S8:480:TYR:CZ	2.39	0.41
8:SA:120:ASP:O	8:SA:124:LYS:HG2	2.20	0.41
8:SA:297:GLU:HG2	8:SA:299:ALA:H	1.85	0.41
9:SB:279:GLN:HA	9:SB:282:ARG:NH1	2.36	0.41
9:SB:315:ALA:O	9:SB:351:THR:HG22	2.20	0.41
9:SB:379:LYS:HA	9:SB:382:SER:HB3	2.03	0.41
8:SC:36:MET:HE3	8:SC:61:HIS:ND1	2.36	0.41
9:SJ:269:GLY:HA2	9:SJ:300:MET:SD	2.61	0.41
9:SL:131:GLN:HE22	9:SL:251:ARG:HE	1.68	0.41
9:SN:387:ALA:C	9:SN:388:MET:HE2	2.45	0.41
25:T:262:TYR:HD1	25:T:277:GLU:HA	1.85	0.41
14:T0:101:ARG:O	14:T0:102:LYS:HD2	2.20	0.41
14:T2:19:VAL:HA	14:T2:22:LEU:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T3:134:GLN:HG3	14:T3:279:ARG:HD2	2.02	0.41
8:TA:111:GLY:O	8:TA:115:VAL:HG23	2.20	0.41
8:TC:119:LEU:HD21	8:TC:156:ARG:HG3	2.01	0.41
8:TC:270:ALA:HB3	8:TC:302:MET:SD	2.60	0.41
8:TG:102:ASN:HB3	8:TG:105:ARG:HB2	2.02	0.41
8:TG:279:GLU:CD	47:p:375:ARG:HH21	2.28	0.41
9:TJ:73:MET:HE3	9:TJ:73:MET:O	2.20	0.41
9:TL:316:VAL:HG22	9:TL:352:ALA:HB3	2.03	0.41
30:U5:335:GLN:NE2	30:U5:339:THR:OG1	2.53	0.41
30:U6:433:ARG:O	30:U6:437:THR:OG1	2.36	0.41
30:U8:151:PHE:O	30:U8:155:GLU:HG3	2.21	0.41
8:UA:280:LYS:HA	8:UA:280:LYS:HD2	1.75	0.41
8:UC:346:TRP:HZ2	8:UC:435:VAL:HG13	1.85	0.41
9:UF:42:LEU:HD23	9:UF:356:ILE:HD11	2.02	0.41
9:UF:112:LEU:O	9:UF:116:VAL:HG13	2.21	0.41
9:UH:143:THR:HG22	9:UH:147:MET:CE	2.47	0.41
9:UH:229:VAL:O	9:UH:232:THR:N	2.52	0.41
9:UL:122:LYS:HD3	9:UL:123:GLU:HG2	2.03	0.41
8:UM:111:GLY:O	8:UM:115:VAL:HG13	2.20	0.41
9:UN:290:THR:HG21	9:UN:329:GLN:HB3	2.02	0.41
9:UN:313:VAL:HG13	9:UN:367:PHE:HE1	1.84	0.41
30:V1:104:ARG:HA	30:V1:107:GLU:HB2	2.02	0.41
30:V6:174:LYS:HB2	30:V6:236:ILE:HG21	2.03	0.41
30:V6:275:ASP:C	30:V6:277:ILE:H	2.29	0.41
30:V7:375:ILE:O	30:V7:379:GLU:HG2	2.20	0.41
8:VA:120:ASP:O	8:VA:124:LYS:HG3	2.20	0.41
8:VA:370:LYS:HG3	39:a:372:LEU:HB3	2.02	0.41
8:VC:88:HIS:HD2	8:VC:90:GLU:HB3	1.84	0.41
9:VF:276:ARG:HE	39:a:236:ARG:HD2	1.86	0.41
9:VH:7:LEU:N	9:VH:134:GLN:O	2.45	0.41
9:VH:322:SER:OG	8:VI:222:PRO:O	2.29	0.41
9:VH:375:GLN:HA	9:VH:378:PHE:HD2	1.86	0.41
8:VM:6:SER:HB3	8:VM:8:HIS:CD2	2.55	0.41
31:W:561:GLU:OE1	30:W4:433:ARG:HG2	2.20	0.41
31:W:585:ILE:HD13	31:W:585:ILE:HA	1.89	0.41
30:W2:378:LEU:HD23	30:W2:378:LEU:HA	1.78	0.41
30:W5:155:GLU:HA	30:W5:158:TYR:HD1	1.85	0.41
30:W6:145:ARG:HD2	30:W6:151:PHE:CD2	2.55	0.41
8:WA:102:ASN:HB3	8:WA:105:ARG:HB2	2.02	0.41
8:WA:147:SER:OG	8:WA:190:THR:OG1	2.26	0.41
8:WE:20:CYS:O	8:WE:23:LEU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WF:182:PRO:O	9:WF:186:THR:HG23	2.20	0.41
9:WF:270:PHE:HD2	9:WF:273:LEU:HD21	1.85	0.41
9:WH:78:SER:OG	9:WH:78:SER:O	2.38	0.41
8:WK:127:ASP:HA	37:YF:69:LEU:CD2	2.51	0.41
9:WN:322:SER:OG	8:WO:222:PRO:O	2.31	0.41
8:WO:215:ARG:HH21	8:WO:216:ASN:HD21	1.67	0.41
9:WP:63:ALA:O	9:WP:89:ASN:ND2	2.54	0.41
31:X:669:LEU:HD22	31:X:673:PHE:HD2	1.85	0.41
33:X4:86:VAL:O	33:X4:89:GLN:HG2	2.21	0.41
33:X4:204:GLU:OE2	33:X4:204:GLU:N	2.34	0.41
34:X7:216:ASP:CG	34:X7:219:GLY:H	2.27	0.41
35:XE:169:ASP:OD1	35:XE:169:ASP:N	2.40	0.41
35:XF:45:LEU:HD23	35:XF:45:LEU:HA	1.88	0.41
35:XF:96:ASP:OD1	35:XF:146:THR:OG1	2.28	0.41
36:Y2:96:LYS:NZ	36:Y2:97:THR:H	2.18	0.41
37:YB:231:MET:HE2	37:YB:231:MET:HB2	1.93	0.41
37:YH:179:PRO:HD3	37:YH:231:MET:HE3	2.02	0.41
31:Z:117:GLU:N	31:Z:128:GLY:O	2.47	0.41
40:a1:45:ARG:HE	40:a1:48:ARG:HH12	1.68	0.41
40:a1:45:ARG:HD2	40:a1:48:ARG:HH22	1.86	0.41
40:a1:67:LYS:HG3	40:a1:69:ILE:HG12	2.01	0.41
39:a6:130:ALA:HA	39:a6:133:LYS:HE3	2.02	0.41
39:b:505:GLU:O	39:b:509:LYS:HG2	2.21	0.41
41:b4:164:ARG:HA	41:b4:164:ARG:HD3	1.81	0.41
41:b4:381:PRO:HG2	41:b4:387:LEU:HA	2.03	0.41
41:b5:132:GLY:HA3	41:b5:288:THR:HG21	2.02	0.41
39:c:107:GLU:HA	39:c:110:GLU:HB2	2.01	0.41
39:c:479:ARG:HA	39:c:479:ARG:HD2	1.96	0.41
42:e:109:LEU:HB2	42:e:140:TRP:CZ2	2.55	0.41
42:f:350:THR:OG1	42:f:359:TRP:NE1	2.52	0.41
43:i:123:PRO:HB3	45:m:68:TRP:CD1	2.55	0.41
46:i3:1415:MET:HB2	46:i3:1418:MET:HB2	2.03	0.41
47:p:197:LYS:HE3	47:p:197:LYS:HB3	1.79	0.41
49:y:86:MET:HE3	49:y:87:TYR:CE1	2.55	0.41
2:1:365:PHE:O	2:1:369:ILE:HG12	2.21	0.41
3:3:173:GLU:HG2	8:GK:372:GLN:NE2	2.36	0.41
3:4:363:LEU:O	3:4:367:ILE:HG22	2.21	0.41
4:5:168:LEU:HA	4:5:168:LEU:HD12	1.77	0.41
4:5:285:PHE:CE2	4:5:340:PHE:HB2	2.55	0.41
1:7:36:ARG:HD2	1:7:36:ARG:HA	1.91	0.41
5:8:124:LEU:HD12	9:IJ:92:PHE:HE2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A2:136:LEU:HD23	7:A2:136:LEU:HA	1.91	0.41
7:A2:154:LEU:HA	7:A2:154:LEU:HD23	1.86	0.41
7:A3:361:GLN:O	7:A3:361:GLN:HG2	2.21	0.41
8:AA:345:ASP:OD1	8:AA:345:ASP:N	2.53	0.41
8:AC:41:THR:O	8:AC:41:THR:OG1	2.36	0.41
9:AD:211:CYS:HB3	9:AD:217:LEU:HD23	2.02	0.41
9:AF:407:GLU:HA	9:AF:410:GLU:HG2	2.01	0.41
9:AF:429:THR:OG1	9:AF:430:ALA:N	2.53	0.41
8:AG:2:ARG:HA	8:AG:133:GLN:NE2	2.36	0.41
8:AK:283:HIS:NE2	8:MK:85:GLN:O	2.50	0.41
9:AL:276:ARG:HH22	31:Y:34:MET:HG3	1.85	0.41
8:AO:40:LYS:HE3	8:AO:42:ILE:HD12	2.02	0.41
8:AO:263:PRO:HG3	9:AP:396:HIS:CD2	2.55	0.41
8:AO:298:PRO:HA	8:AO:301:GLN:HG2	2.02	0.41
9:AP:265:PHE:HE2	9:AP:418:LEU:HD11	1.86	0.41
11:B3:324:ARG:HB3	11:B3:328:GLU:CB	2.50	0.41
11:B4:349:ILE:O	11:B4:353:LYS:NZ	2.52	0.41
8:BC:112:LYS:H	8:BC:112:LYS:HG3	1.69	0.41
8:BC:221:ARG:NH2	17:H:228:PHE:O	2.53	0.41
8:BC:320:ARG:HD3	8:BC:360:PRO:HG3	2.02	0.41
8:BE:125:LEU:HA	8:BE:125:LEU:HD12	1.89	0.41
8:BI:304:LYS:HD3	8:BI:304:LYS:HA	1.89	0.41
9:BJ:68:LEU:HD23	9:BJ:68:LEU:HA	1.80	0.41
9:BJ:286:VAL:HG11	9:BJ:326:VAL:HA	2.03	0.41
8:BK:203:MET:SD	8:BK:384:ILE:HD11	2.61	0.41
8:BK:230:LEU:HD21	8:BK:302:MET:SD	2.60	0.41
9:BN:261:PRO:HG3	8:BO:406:HIS:CD2	2.56	0.41
9:BP:25:SER:O	9:BP:29:GLY:N	2.54	0.41
12:C0:97:ASP:O	12:C0:101:ARG:HG2	2.21	0.41
12:C1:302:LYS:HB2	12:C1:302:LYS:HE2	1.84	0.41
12:C1:393:LEU:HB2	12:C1:427:VAL:HG11	2.03	0.41
12:C4:139:GLN:NE2	12:C5:395:VAL:HG21	2.36	0.41
12:C4:330:ILE:HD13	12:C4:330:ILE:HA	1.92	0.41
12:C4:344:ASN:HB3	28:Q4:178:PHE:HE2	1.84	0.41
9:CB:197:ASP:HB2	9:CB:198:GLU:OE1	2.21	0.41
8:CC:122:ILE:HA	8:CC:122:ILE:HD13	1.62	0.41
9:CD:140:GLY:HA3	9:CD:181:GLU:OE2	2.19	0.41
8:CE:276:ILE:HD12	8:CE:276:ILE:HA	1.92	0.41
8:CG:138:PHE:HZ	8:CG:235:VAL:HG21	1.86	0.41
9:CH:52:ASN:OD1	9:CH:62:ARG:NH1	2.53	0.41
8:CI:339:ARG:HE	8:CI:339:ARG:C	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CM:251:ASP:H	8:CM:254:GLU:CG	2.33	0.41
9:CP:209:ASP:OD1	9:CP:297:LYS:NZ	2.53	0.41
14:D1:158:CYS:SG	14:D1:429:LYS:HD2	2.61	0.41
14:D1:207:HIS:ND1	14:D1:271:GLU:HG3	2.35	0.41
14:D1:407:ASP:O	14:D1:410:MET:HB2	2.21	0.41
14:D4:54:ASP:OD1	14:D4:54:ASP:N	2.53	0.41
8:DC:125:LEU:HD23	8:DC:125:LEU:HA	1.90	0.41
8:DG:255:PHE:O	8:DG:259:LEU:HB2	2.21	0.41
9:DH:362:LYS:HA	9:DH:362:LYS:HD3	1.88	0.41
9:DN:28:HIS:ND1	9:DN:43:GLN:O	2.40	0.41
15:E:131:LEU:HD21	15:E:162:MET:HE2	2.02	0.41
8:EA:264:ARG:NH1	8:EA:428:LEU:HD13	2.35	0.41
9:EB:156:ARG:HD2	9:EB:156:ARG:HA	1.89	0.41
9:ED:252:LYS:HZ3	8:EE:101:ASN:N	2.19	0.41
9:ED:323:MET:HE2	8:EE:224:TYR:HD2	1.86	0.41
8:EE:239:THR:OG1	8:EE:243:ARG:NH1	2.53	0.41
8:EE:345:ASP:OD2	9:EF:390:ARG:NH2	2.52	0.41
9:EF:123:GLU:O	9:EF:126:SER:OG	2.29	0.41
8:EG:91:GLN:HA	8:EG:121:ARG:HH12	1.86	0.41
8:EG:209:ILE:H	8:EG:209:ILE:HG13	1.62	0.41
8:EI:282:TYR:CD2	8:EI:283:HIS:CE1	3.08	0.41
9:EN:39:ASP:OD1	9:EN:39:ASP:N	2.49	0.41
8:EO:1:MET:CE	8:EO:50:ASN:HB3	2.51	0.41
8:EO:68:VAL:HG12	8:EO:93:ILE:HB	2.03	0.41
8:EO:224:TYR:O	8:EO:228:ASN:N	2.46	0.41
8:EO:251:ASP:OD1	8:EO:254:GLU:HG3	2.21	0.41
9:FB:174:LYS:HE2	9:FB:174:LYS:HB2	1.82	0.41
8:FC:377:MET:HE2	8:FC:379:SER:OG	2.20	0.41
8:FE:388:TRP:CD1	8:FE:388:TRP:H	2.39	0.41
9:FF:253:LEU:HD13	9:FF:253:LEU:HA	1.92	0.41
8:FG:2:ARG:HH22	9:FH:70:PRO:HG2	1.84	0.41
8:FI:15:GLN:HB3	8:FI:228:ASN:HD21	1.86	0.41
8:FK:53:PHE:O	8:FK:64:ARG:NH1	2.54	0.41
8:FK:70:LEU:HD23	8:FK:70:LEU:HA	1.89	0.41
8:FK:348:PRO:HG2	9:FL:388:MET:HE3	2.03	0.41
9:FL:86:ARG:HH12	9:GL:282:ARG:NE	2.19	0.41
9:FN:131:GLN:HE22	9:FN:250:LEU:H	1.68	0.41
9:FN:184:ASN:OD1	9:FN:398:TYR:OH	2.38	0.41
8:FO:11:GLN:HG3	8:FO:74:VAL:HG11	2.02	0.41
9:GB:294:PHE:CE2	9:GB:333:VAL:HG11	2.54	0.41
9:GD:330:MET:HA	9:GD:333:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GE:31:GLN:CD	8:GE:35:GLN:HB2	2.46	0.41
8:GE:306:ASP:HB3	8:GE:309:HIS:CD2	2.55	0.41
8:GG:381:THR:OG1	8:GG:382:THR:N	2.54	0.41
8:GI:223:THR:OG1	8:GI:224:TYR:N	2.53	0.41
8:GM:171:ILE:HD11	50:GM:501:GTP:HN22	1.85	0.41
8:GM:318:LEU:HD23	8:GM:318:LEU:HA	1.93	0.41
8:HA:153:LEU:O	8:HA:157:LEU:HB2	2.21	0.41
8:HA:188:ILE:HD13	8:HA:425:LEU:HD12	2.01	0.41
9:HB:330:MET:HE1	9:HB:351:THR:CG2	2.51	0.41
8:HC:161:TYR:HA	36:Y0:23:TYR:HE1	1.86	0.41
9:HD:16:ILE:HA	9:HD:226:ASN:OD1	2.21	0.41
9:HD:246:LEU:HD23	9:HD:352:ALA:HA	2.02	0.41
9:HD:316:VAL:HG22	9:HD:352:ALA:HB3	2.01	0.41
8:HG:119:LEU:HA	8:HG:122:ILE:HG22	2.03	0.41
8:HG:414:GLU:CD	8:HG:416:GLY:H	2.28	0.41
9:HH:242:PHE:HB3	9:HH:356:ILE:HD12	2.02	0.41
9:HJ:253:LEU:HD11	9:HJ:368:ILE:HG21	2.02	0.41
8:HK:217:LEU:HD12	8:HK:367:ASP:HB3	2.01	0.41
9:HL:247:ASN:ND2	8:HM:71:GLU:OE1	2.54	0.41
9:HL:401:GLU:HB2	9:HL:403:MET:HE1	2.03	0.41
8:HM:116:ASP:OD1	8:HM:116:ASP:N	2.51	0.41
8:HM:172:TYR:HA	8:HM:173:PRO:HD3	1.91	0.41
8:HO:254:GLU:HA	8:HO:254:GLU:OE2	2.21	0.41
8:HO:311:LYS:HD3	8:HO:344:VAL:HG12	2.01	0.41
9:HP:113:VAL:HG11	9:HP:150:LEU:HD23	2.02	0.41
9:IB:255:VAL:HG23	8:IC:407:TRP:CG	2.56	0.41
9:ID:249:ASP:O	9:ID:253:LEU:HG	2.21	0.41
8:IE:33:ASP:HA	8:IE:85:GLN:HG3	2.02	0.41
8:IE:333:ALA:O	8:IE:337:THR:HG23	2.21	0.41
8:IE:384:ILE:HD12	8:IE:384:ILE:HA	1.92	0.41
8:IG:298:PRO:HA	8:IG:301:GLN:HG2	2.02	0.41
9:IH:249:ASP:H	9:IH:252:LYS:HB2	1.84	0.41
8:IM:259:LEU:HD11	8:IM:316:CYS:HB2	2.02	0.41
8:IO:7:ILE:HG21	8:IO:7:ILE:HD13	1.78	0.41
19:J2:132:LEU:HD23	19:J2:137:GLU:HB3	2.02	0.41
19:J2:253:THR:OG1	19:J2:256:ASP:OD2	2.31	0.41
19:J3:78:LEU:HD23	19:J3:78:LEU:HA	1.78	0.41
19:J3:254:GLU:O	19:J3:258:GLN:HG2	2.21	0.41
19:J3:276:ARG:HB3	19:J3:277:MET:H	1.58	0.41
8:JC:88:HIS:CD2	8:KA:283:HIS:HB3	2.56	0.41
9:JD:131:GLN:NE2	9:JD:249:ASP:HB2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JE:378:LEU:HD13	8:JE:378:LEU:HA	1.90	0.41
9:JF:230:SER:O	9:JF:233:MET:HB2	2.20	0.41
8:JI:21:TRP:CZ2	8:JI:65:ALA:HB2	2.55	0.41
8:JI:212:ILE:HD12	8:JI:212:ILE:HA	1.92	0.41
9:JL:60:VAL:HG11	9:KJ:281:TYR:HB3	2.02	0.41
9:JN:334:GLN:HE22	9:JN:349:VAL:HG22	1.85	0.41
9:JP:54:ALA:HB3	9:JP:58:LYS:HB3	2.03	0.41
9:KD:133:PHE:HB2	9:KD:164:MET:CE	2.49	0.41
8:KE:326:LYS:HE2	8:KE:326:LYS:HB2	1.88	0.41
9:KH:309:ARG:NH2	9:KH:426:GLN:HG2	2.35	0.41
8:KI:1:MET:HE3	8:KI:1:MET:H1	1.85	0.41
8:KI:201:ALA:O	8:KI:268:PRO:HD2	2.21	0.41
9:KJ:100:ASN:HD22	9:KJ:103:LYS:HG2	1.85	0.41
9:KJ:326:VAL:O	9:KJ:330:MET:HG2	2.21	0.41
9:KN:403:MET:HA	41:b5:127:HIS:NE2	2.36	0.41
8:KO:252:LEU:HD22	8:KO:255:PHE:HE1	1.85	0.41
9:KP:67:ASP:OD1	9:KP:68:LEU:N	2.53	0.41
9:LD:189:VAL:HA	9:LD:192:LEU:HB2	2.03	0.41
9:LF:380:ARG:HA	9:LF:383:GLU:HG3	2.02	0.41
8:LG:7:ILE:HG21	8:LG:153:LEU:HD21	2.01	0.41
9:LJ:227:HIS:HD1	9:LJ:227:HIS:C	2.27	0.41
9:LL:136:THR:HG22	9:LL:167:PHE:HB2	2.01	0.41
9:LN:178:THR:HB	9:LN:181:GLU:HB2	2.01	0.41
9:LP:113:VAL:HG11	9:LP:150:LEU:HD23	2.01	0.41
9:LP:223:GLY:O	9:LP:227:HIS:N	2.51	0.41
9:LP:376:GLU:HG2	9:LP:380:ARG:HH12	1.86	0.41
22:M3:145:ASP:N	22:M3:145:ASP:OD1	2.53	0.41
8:ME:70:LEU:HD23	8:ME:70:LEU:HA	1.86	0.41
9:MF:119:VAL:HA	9:MF:122:LYS:NZ	2.35	0.41
9:MF:184:ASN:O	9:MF:188:SER:OG	2.30	0.41
8:MG:388:TRP:HZ3	8:MG:428:LEU:HD21	1.84	0.41
9:MJ:324:LYS:NZ	8:MK:210:TYR:O	2.54	0.41
8:MM:277:SER:O	8:MM:281:ALA:N	2.44	0.41
8:MO:335:ILE:HD13	8:MO:335:ILE:HA	1.94	0.41
9:MP:229:VAL:O	9:MP:233:MET:HG2	2.21	0.41
9:MP:380:ARG:HH11	45:i1:5:TYR:HB3	1.85	0.41
9:NB:269:GLY:HA2	9:NB:300:MET:HE3	2.01	0.41
8:NC:427:ALA:HA	8:NC:430:LYS:HD2	2.02	0.41
8:NE:79:ARG:HH21	8:NE:94:THR:HG23	1.86	0.41
8:NE:116:ASP:HB2	36:Y4:143:MET:O	2.21	0.41
9:NF:337:ASN:HD22	9:NF:337:ASN:HA	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NG:72:PRO:O	8:NG:76:ASP:HB2	2.20	0.41
8:NG:401:LYS:HE2	8:NG:401:LYS:HB3	1.81	0.41
8:NI:4:CYS:HB2	8:NI:52:PHE:CE1	2.56	0.41
8:NI:91:GLN:HE21	8:NI:125:LEU:HD11	1.85	0.41
9:NJ:42:LEU:HD11	9:NJ:242:PHE:CD1	2.55	0.41
9:NJ:154:LYS:O	9:NJ:158:GLU:HG2	2.21	0.41
9:NL:117:LEU:HA	9:NL:120:VAL:HG22	2.01	0.41
9:NL:187:LEU:HD11	9:NL:408:PHE:CE1	2.56	0.41
8:NM:276:ILE:CD1	8:NM:281:ALA:HA	2.51	0.41
9:NN:323:MET:HE1	8:NO:224:TYR:CE2	2.55	0.41
9:NN:344:TRP:C	9:NN:345:ILE:HD13	2.46	0.41
9:NN:377:LEU:O	9:NN:380:ARG:HG2	2.21	0.41
8:NO:73:THR:HA	8:NO:76:ASP:HB2	2.02	0.41
8:NO:381:THR:OG1	8:NO:382:THR:N	2.52	0.41
9:NP:403:MET:HE3	9:NP:403:MET:HB3	1.93	0.41
24:O4:122:LYS:HG3	24:O4:123:TYR:CD2	2.56	0.41
25:O5:128:ASP:OD2	33:X5:51:THR:HA	2.20	0.41
25:O5:286:ASP:N	25:O5:286:ASP:OD1	2.53	0.41
25:O5:419:VAL:HG22	25:O5:443:PHE:HD1	1.85	0.41
8:OA:21:TRP:CE3	8:OA:63:PRO:HB3	2.55	0.41
9:OB:121:ARG:HA	9:OB:124:ALA:HB3	2.02	0.41
8:OC:60:LYS:HE2	8:OC:60:LYS:HB2	1.94	0.41
8:OC:219:ILE:HB	8:OC:222:PRO:HG3	2.02	0.41
8:OE:88:HIS:HE2	8:PE:284:GLU:CD	2.28	0.41
9:OF:130:LEU:O	9:OF:162:ARG:NH1	2.39	0.41
8:OI:291:ILE:HD13	8:OI:373:ARG:HH11	1.86	0.41
9:OL:294:PHE:HB3	36:Y5:238:PHE:CD1	2.55	0.41
8:OM:280:LYS:O	8:OM:284:GLU:HG2	2.20	0.41
9:ON:21:TRP:CD2	9:ON:61:PRO:HB3	2.56	0.41
9:ON:299:MET:SD	9:ON:301:ALA:N	2.92	0.41
9:ON:313:VAL:HG13	9:ON:367:PHE:HE1	1.86	0.41
9:ON:374:ILE:HD12	9:ON:374:ILE:HA	1.93	0.41
8:OO:102:ASN:HB3	8:OO:105:ARG:HB2	2.02	0.41
8:OO:245:ASP:HA	8:OO:249:ASN:HD21	1.85	0.41
9:OP:182:PRO:O	9:OP:186:THR:OG1	2.34	0.41
23:P:299:GLN:HB3	23:P:300:ARG:NH2	2.35	0.41
27:P6:124:TYR:CE2	11:R4:26:THR:HG22	2.56	0.41
27:P6:137:GLU:HB3	27:P6:150:TYR:CE2	2.55	0.41
17:P8:151:PRO:HG2	31:Y:223:ILE:HD11	2.02	0.41
17:P9:98:PHE:HA	30:W7:57:HIS:O	2.21	0.41
9:PD:257:MET:HB3	9:PD:266:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PE:28:HIS:CE1	8:PE:243:ARG:HD2	2.55	0.41
9:PH:86:ARG:HA	9:PH:87:PRO:HD3	1.98	0.41
8:PI:311:LYS:NZ	8:PI:343:PHE:O	2.43	0.41
9:PJ:237:THR:O	9:PJ:241:ARG:HG3	2.21	0.41
8:PK:2:ARG:H	8:PK:2:ARG:HG3	1.53	0.41
9:PL:86:ARG:HA	9:QL:281:TYR:CD2	2.56	0.41
9:PL:310:TYR:CE1	9:PL:371:SER:HB2	2.56	0.41
9:PL:334:GLN:O	9:PL:334:GLN:NE2	2.52	0.41
8:PO:9:VAL:HG12	8:PO:146:GLY:HA2	2.03	0.41
28:Q1:17:THR:HB	28:Q1:20:LEU:HB2	2.01	0.41
28:Q2:50:LYS:HE2	28:Q2:63:TRP:CD1	2.55	0.41
28:Q2:145:ARG:HE	28:Q2:145:ARG:HB3	1.62	0.41
28:Q2:191:PRO:HD2	11:R2:404:PHE:CZ	2.56	0.41
28:Q5:51:PHE:HD2	28:Q5:58:ALA:HB1	1.86	0.41
9:QD:12:CYS:O	9:QD:16:ILE:HG12	2.21	0.41
8:QE:83:TYR:HB3	8:QE:86:LEU:HD23	2.02	0.41
9:QH:256:ASN:OD1	9:QH:350:LYS:HD3	2.20	0.41
8:QI:258:ASN:HB3	9:QJ:179:VAL:HG23	2.02	0.41
9:QJ:321:MET:HE3	9:QJ:363:MET:SD	2.60	0.41
8:QK:88:HIS:CE1	8:QK:90:GLU:HB3	2.55	0.41
8:QM:52:PHE:CE2	8:QM:243:ARG:HD3	2.56	0.41
9:QP:262:ARG:H	9:QP:262:ARG:HD3	1.84	0.41
9:QP:325:GLU:O	9:QP:329:GLN:HG3	2.20	0.41
11:R0:119:LEU:HD22	11:R0:390:CYS:SG	2.61	0.41
11:R0:321:ARG:NH2	11:R0:332:ASP:OD1	2.54	0.41
11:R4:189:CYS:HA	11:R4:192:LEU:HD12	2.02	0.41
9:RD:68:LEU:HD23	9:RD:68:LEU:HA	1.95	0.41
8:RE:29:GLY:C	8:RE:36:MET:HE1	2.46	0.41
9:RF:255:VAL:HG21	8:RG:100:ALA:O	2.20	0.41
8:RG:153:LEU:O	8:RG:157:LEU:N	2.49	0.41
8:RG:264:ARG:NH1	8:RG:431:ASP:OD2	2.53	0.41
8:RK:138:PHE:HA	8:RK:169:PHE:O	2.20	0.41
8:RK:311:LYS:HD3	8:RK:344:VAL:HG12	2.03	0.41
9:RN:278:SER:O	9:RN:282:ARG:HG3	2.21	0.41
12:S0:274:LEU:O	12:S0:275:ARG:HD2	2.21	0.41
12:S1:419:ARG:O	12:S1:423:GLU:N	2.50	0.41
12:S2:277:THR:HG22	14:T2:34:GLY:HA2	2.02	0.41
12:S2:411:LEU:HD12	12:S2:411:LEU:HA	1.92	0.41
12:S8:160:ILE:HG23	12:S8:254:LEU:HD12	2.02	0.41
8:SA:9:VAL:N	8:SA:138:PHE:O	2.45	0.41
8:SA:108:TYR:HA	8:SA:112:LYS:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SC:111:GLY:O	8:SC:115:VAL:HG23	2.20	0.41
8:SC:132:LEU:O	8:SC:164:LYS:NZ	2.43	0.41
8:SC:203:MET:HA	8:SC:203:MET:CE	2.49	0.41
8:SC:377:MET:SD	8:SC:378:LEU:N	2.94	0.41
9:SD:64:VAL:HG21	9:SD:120:VAL:HG12	2.02	0.41
8:SE:206:ASN:OD1	50:SE:501:GTP:N2	2.54	0.41
8:SG:28:HIS:NE2	8:SG:48:SER:O	2.53	0.41
9:SJ:132:GLY:HA2	9:SJ:162:ARG:HD3	2.03	0.41
9:SJ:149:THR:HB	9:SJ:191:GLN:HG2	2.01	0.41
14:T0:8:LEU:HD11	14:T0:11:GLU:HB2	2.01	0.41
14:T1:58:GLN:O	14:T1:62:ALA:N	2.54	0.41
14:T4:131:MET:HB3	14:T4:201:ILE:HD11	2.03	0.41
14:T4:258:ALA:HA	14:T4:261:ASN:HD22	1.85	0.41
14:T4:396:GLN:HE21	14:T4:396:GLN:HB3	1.45	0.41
14:T5:324:LYS:O	14:T5:328:GLU:HG2	2.21	0.41
8:TA:84:ARG:H	8:TA:84:ARG:HG2	1.74	0.41
9:TB:51:TYR:O	9:TB:62:ARG:NH2	2.52	0.41
9:TB:344:TRP:HZ3	8:TC:403:ALA:HB2	1.86	0.41
8:TC:70:LEU:HD23	8:TC:70:LEU:HA	1.84	0.41
9:TD:404:ASP:OD1	9:TD:404:ASP:N	2.40	0.41
8:TE:166:LYS:N	8:TE:199:ASP:OD2	2.45	0.41
8:TE:173:PRO:HB3	8:TE:183:GLU:CD	2.46	0.41
9:TH:256:ASN:ND2	9:TH:350:LYS:HD2	2.36	0.41
9:TN:22:GLU:HA	9:TN:81:PHE:HD2	1.85	0.41
9:TN:87:PRO:HA	9:TN:90:PHE:CD1	2.56	0.41
25:U:474:LYS:HG3	25:U:499:PHE:H	1.86	0.41
30:U2:427:LEU:HD23	30:U2:427:LEU:HA	1.86	0.41
30:U3:315:ILE:HG22	30:U3:319:GLU:OE2	2.20	0.41
30:U8:277:ILE:HD11	30:U9:387:TYR:CZ	2.54	0.41
30:U8:333:TRP:CE3	30:U8:476:PHE:CD1	3.08	0.41
30:U8:466:LYS:HE2	30:U8:466:LYS:HB2	1.92	0.41
8:UA:215:ARG:NH1	8:UA:216:ASN:OD1	2.53	0.41
9:UB:324:LYS:HD2	9:UB:324:LYS:HA	1.89	0.41
8:UC:79:ARG:HH21	8:UC:94:THR:HG23	1.84	0.41
9:UD:305:PRO:HA	9:UD:373:ALA:HB2	2.02	0.41
9:UD:362:LYS:HE2	9:UD:362:LYS:HB2	1.79	0.41
8:UE:317:MET:SD	8:UE:318:LEU:N	2.94	0.41
9:UH:272:PRO:HG3	9:UH:364:SER:HA	2.02	0.41
9:UH:287:PRO:O	9:UH:291:GLN:HG2	2.21	0.41
8:UK:235:VAL:O	8:UK:239:THR:HG23	2.20	0.41
9:UL:215:LEU:HB3	9:UL:217:LEU:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UN:87:PRO:HA	9:UN:90:PHE:HD1	1.85	0.41
8:UO:280:LYS:HD2	8:UO:280:LYS:HA	1.83	0.41
8:UO:317:MET:HE2	8:UO:319:TYR:CD2	2.55	0.41
25:V:246:TYR:HD1	25:V:263:ILE:HG12	1.85	0.41
30:V1:182:GLU:H	30:V1:182:GLU:HG2	1.54	0.41
30:V6:215:LEU:O	30:V6:219:VAL:HG23	2.20	0.41
30:V7:313:ASN:HA	30:V7:316:ARG:NH1	2.36	0.41
30:V7:455:LEU:HA	30:V7:455:LEU:HD23	1.82	0.41
9:VB:143:THR:HG23	9:VB:147:MET:HE1	2.02	0.41
8:VC:1:MET:SD	8:VC:2:ARG:N	2.94	0.41
9:VD:83:GLN:O	9:WD:281:TYR:OH	2.31	0.41
9:VD:361:LEU:HD12	9:VD:361:LEU:HA	1.89	0.41
8:VE:2:ARG:H	8:VE:2:ARG:HG3	1.60	0.41
8:VE:352:LYS:HD3	9:VF:177:ASP:O	2.20	0.41
9:VF:305:PRO:HA	9:VF:373:ALA:HB2	2.01	0.41
8:VG:147:SER:OG	8:VG:190:THR:OG1	2.31	0.41
8:VK:175:PRO:CG	8:VK:304:LYS:HG2	2.47	0.41
9:VL:132:GLY:HA3	9:VL:163:ILE:O	2.21	0.41
8:VM:10:GLY:HA2	8:VM:69:ASP:OD2	2.20	0.41
9:VN:21:TRP:CE3	9:VN:24:ILE:HD11	2.56	0.41
9:VN:289:LEU:HD21	9:VN:365:ALA:CB	2.49	0.41
31:W:635:PHE:HA	31:W:638:PHE:CD1	2.56	0.41
30:W2:413:GLN:O	30:W2:417:VAL:HG23	2.21	0.41
30:W4:145:ARG:O	30:W4:152:TRP:NE1	2.44	0.41
30:W5:133:GLN:O	30:W5:137:GLY:N	2.53	0.41
30:W5:205:ASP:OD2	30:W5:461:THR:OG1	2.31	0.41
30:W5:248:HIS:CE1	30:W5:252:ARG:HH21	2.39	0.41
30:W6:385:LYS:HA	30:W6:385:LYS:HD2	1.69	0.41
8:WC:96:LYS:HA	8:WC:96:LYS:HD3	1.76	0.41
9:WD:324:LYS:HE2	8:WE:222:PRO:HB2	2.02	0.41
9:WD:358:PRO:HG2	9:WD:361:LEU:HB3	2.03	0.41
8:WE:302:MET:SD	8:WE:303:VAL:HG13	2.60	0.41
9:WF:329:GLN:HA	9:WF:332:ASN:ND2	2.36	0.41
8:WG:130:THR:OG1	8:WG:131:GLY:N	2.54	0.41
9:WH:83:GLN:OE1	42:f:248:LYS:HE3	2.21	0.41
9:WH:320:ARG:HH21	48:r:139:HIS:HA	1.86	0.41
9:WJ:252:LYS:HD3	8:WK:100:ALA:HA	2.02	0.41
9:WJ:310:TYR:CD1	9:WJ:371:SER:HB2	2.56	0.41
9:WJ:396:HIS:HA	9:WJ:399:THR:OG1	2.20	0.41
8:WK:2:ARG:HB3	8:WK:242:LEU:HD23	2.02	0.41
8:WK:234:ILE:HA	8:WK:234:ILE:HD13	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WK:236:SER:OG	8:WK:243:ARG:NH2	2.50	0.41
9:WL:323:MET:SD	9:WL:324:LYS:N	2.94	0.41
8:WM:316:CYS:HB3	8:WM:378:LEU:HB2	2.02	0.41
8:WM:352:LYS:HD2	9:WN:177:ASP:O	2.21	0.41
9:WN:309:ARG:NH2	9:WN:339:SER:O	2.53	0.41
8:WO:171:ILE:HD13	8:WO:171:ILE:HA	1.93	0.41
31:X:400:GLU:HB3	31:X:414:HIS:ND1	2.36	0.41
33:X4:264:ASP:HB2	33:X4:269:ARG:HH21	1.85	0.41
34:X6:69:HIS:HB2	34:X6:125:TYR:CE2	2.55	0.41
34:X6:77:GLU:H	34:X6:89:VAL:HB	1.85	0.41
34:X6:203:TYR:CE2	34:X6:207:THR:HG21	2.56	0.41
34:X7:170:THR:O	34:X7:188:TYR:OH	2.27	0.41
34:X7:240:CYS:HB2	34:X7:266:TRP:CE3	2.55	0.41
34:X8:249:GLN:NE2	34:X8:254:ALA:HB3	2.36	0.41
35:XD:170:ARG:HG2	35:XD:172:TYR:CE1	2.55	0.41
35:XG:81:LYS:HB3	35:XG:129:TRP:CD2	2.55	0.41
31:Y:451:ILE:H	31:Y:451:ILE:HG12	1.69	0.41
36:Y2:76:ILE:HD13	36:Y2:80:GLY:O	2.21	0.41
36:Y2:81:LYS:HE3	36:Y2:83:LEU:HG	2.02	0.41
37:YD:145:ASN:HB3	37:YD:148:ILE:HG22	2.03	0.41
38:Z1:135:TRP:O	38:Z1:139:VAL:HG23	2.20	0.41
40:a3:103:PRO:HA	40:a3:104:PRO:HD3	1.92	0.41
41:b3:381:PRO:HD2	41:b3:387:LEU:HD13	2.03	0.41
41:b4:281:PRO:HG2	41:b4:289:TYR:HB2	2.03	0.41
41:b4:445:TRP:HA	41:b4:448:ASN:OD1	2.21	0.41
39:c:191:LEU:HD13	39:c:194:MET:HE1	2.02	0.41
39:c:226:ARG:NH2	39:c:227:ARG:HB3	2.35	0.41
42:e:532:PHE:CD1	47:o:77:HIS:HB2	2.55	0.41
42:f:93:ILE:HD13	42:f:117:LEU:HD21	2.01	0.41
42:f:511:HIS:CE1	42:f:513:GLU:HG2	2.55	0.41
44:h1:103:LYS:O	44:h1:107:LYS:NZ	2.53	0.41
44:h4:46:SER:HB2	44:h4:94:GLU:HB3	2.03	0.41
44:h4:57:VAL:HG22	44:h4:87:SER:HA	2.01	0.41
46:i3:1378:GLU:HA	46:i3:1381:GLN:OE1	2.20	0.41
46:i4:1429:ALA:O	46:i4:1499:LYS:NZ	2.51	0.41
43:k:38:ASP:HA	43:k:41:LYS:HE2	2.02	0.41
47:p:157:ARG:HA	47:p:160:LYS:HE3	2.03	0.41
47:p:404:ASP:OD1	47:p:408:GLN:NE2	2.54	0.41
47:p:473:ILE:HG23	47:p:487:MET:HG3	2.02	0.41
48:q:136:GLU:N	48:q:136:GLU:OE2	2.54	0.41
48:q:141:ILE:HD12	48:q:141:ILE:HA	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:415:SER:O	2:1:419:THR:HG23	2.20	0.41
2:2:365:PHE:CZ	4:6:351:ILE:HA	2.55	0.41
3:3:14:LYS:HG2	3:3:15:GLY:H	1.86	0.41
4:5:287:MET:HE2	4:5:287:MET:HB2	1.79	0.41
4:6:118:LYS:HD3	4:6:171:PHE:HE2	1.85	0.41
1:7:47:LEU:HD12	1:7:51:TRP:CH2	2.55	0.41
6:A:100:ARG:HH22	8:IE:221:ARG:HG2	1.86	0.41
7:A5:81:LEU:HB2	7:A5:171:LEU:HD22	2.02	0.41
9:AB:11:GLN:H	9:AB:11:GLN:HG3	1.67	0.41
9:AB:67:ASP:OD2	9:AB:72:THR:OG1	2.26	0.41
9:AD:44:LEU:O	17:I:214:GLN:NE2	2.54	0.41
8:AE:318:LEU:O	8:AE:375:VAL:HA	2.20	0.41
8:AE:362:VAL:HG21	8:AE:370:LYS:HB2	2.02	0.41
9:AH:331:LEU:HD22	8:AI:177:VAL:HG12	2.01	0.41
8:AK:66:VAL:HG12	8:AK:68:VAL:HG13	2.03	0.41
9:AL:169:VAL:HG22	9:AL:202:ILE:HB	2.03	0.41
8:AO:28:HIS:CE1	8:AO:243:ARG:HD2	2.56	0.41
8:AO:154:MET:HB2	8:AO:154:MET:HE2	1.79	0.41
8:AO:328:VAL:HG11	8:AO:353:VAL:HG11	2.03	0.41
9:AP:124:ALA:HA	9:AP:130:LEU:HD21	2.03	0.41
9:AP:324:LYS:HE2	9:AP:324:LYS:HB3	1.86	0.41
10:B:20:GLU:OE1	10:B:23:ARG:NE	2.54	0.41
11:B0:17:TRP:HA	11:B0:20:ASN:ND2	2.35	0.41
11:B5:255:ASP:N	11:B5:255:ASP:OD1	2.48	0.41
9:BB:247:ASN:O	9:BB:252:LYS:NZ	2.46	0.41
9:BD:226:ASN:OD1	52:BD:502:GDP:N1	2.54	0.41
8:BE:73:THR:O	8:BE:77:GLU:HG2	2.20	0.41
9:BF:218:THR:OG1	25:U:140:ASN:OD1	2.35	0.41
9:BH:67:ASP:OD2	9:BH:72:THR:HB	2.21	0.41
9:BH:372:THR:HG21	9:BH:426:GLN:HB2	2.02	0.41
9:BJ:272:PRO:HG3	9:BJ:364:SER:HA	2.02	0.41
9:BL:253:LEU:O	9:BL:257:MET:HG2	2.21	0.41
8:BM:90:GLU:OE2	8:BM:121:ARG:NE	2.53	0.41
8:BM:284:GLU:OE2	8:BM:284:GLU:N	2.54	0.41
9:BN:134:GLN:NE2	9:BN:165:ASN:O	2.53	0.41
9:BN:309:ARG:H	9:BN:372:THR:HB	1.85	0.41
8:BO:138:PHE:HZ	8:BO:235:VAL:HG21	1.86	0.41
12:C0:137:LYS:NZ	12:C0:141:HIS:HB2	2.36	0.41
12:C1:88:THR:HA	17:O9:184:ASP:OD1	2.19	0.41
12:C1:138:THR:HG22	12:C2:423:GLU:HG3	2.03	0.41
12:C1:398:THR:HA	12:C1:401:ASP:OD2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C2:126:ARG:CZ	11:R3:44:ILE:HD11	2.51	0.41
12:C4:411:LEU:HD12	12:C4:411:LEU:HA	1.89	0.41
9:CB:263:LEU:HD22	9:CB:422:TYR:CD2	2.55	0.41
8:CC:107:HIS:HA	8:CC:152:LEU:HD23	2.02	0.41
9:CF:114:ASP:N	9:CF:114:ASP:OD1	2.54	0.41
9:CH:271:ALA:HB1	9:CH:289:LEU:HD22	2.03	0.41
9:CJ:372:THR:HA	9:CJ:422:TYR:CE2	2.56	0.41
9:CL:147:MET:HE3	9:CL:147:MET:HB3	1.93	0.41
8:CQ:64:ARG:CG	8:CQ:125:LEU:HD11	2.48	0.41
14:D2:447:GLN:N	14:D2:447:GLN:OE1	2.53	0.41
8:DC:326:LYS:NZ	9:DD:208:TYR:HB3	2.35	0.41
9:DF:187:LEU:HD11	9:DF:408:PHE:HE1	1.85	0.41
8:DG:58:ALA:HA	31:X:418:PHE:CD2	2.55	0.41
8:DG:60:LYS:HE2	8:DG:60:LYS:HB3	1.88	0.41
9:DH:131:GLN:HE22	9:DH:250:LEU:H	1.68	0.41
9:DH:167:PHE:CE2	9:DH:233:MET:HG2	2.56	0.41
9:DH:358:PRO:HG2	9:DH:361:LEU:HB3	2.02	0.41
9:DL:155:ILE:HD12	9:DL:155:ILE:HA	1.98	0.41
9:DL:313:VAL:HG13	9:DL:367:PHE:HE1	1.85	0.41
8:DM:430:LYS:HE3	8:DM:430:LYS:HB3	1.88	0.41
8:DO:1:MET:SD	8:DO:130:THR:OG1	2.78	0.41
15:E:78:VAL:HA	15:E:88:ARG:HH22	1.86	0.41
8:EA:21:TRP:CZ3	8:EA:63:PRO:HB3	2.55	0.41
8:EA:52:PHE:CE2	8:EA:243:ARG:HD3	2.55	0.41
8:EA:326:LYS:HD3	9:EB:212:PHE:CE1	2.56	0.41
8:EC:212:ILE:HG21	8:EC:302:MET:HE1	2.02	0.41
8:EC:246:GLY:HA2	8:EC:357:TYR:CD1	2.55	0.41
9:ED:285:THR:HB	9:ED:287:PRO:HD2	2.02	0.41
8:EG:296:PHE:CE1	8:EG:377:MET:HE1	2.56	0.41
9:EJ:252:LYS:HZ3	8:EK:101:ASN:N	2.18	0.41
8:EK:313:MET:SD	8:EK:435:VAL:HG11	2.61	0.41
9:EL:78:SER:HB3	25:O5:465:LYS:HB2	2.03	0.41
8:EM:285:GLN:HE22	8:EM:287:SER:HB3	1.86	0.41
8:EO:154:MET:HA	8:EO:157:LEU:HB3	2.02	0.41
15:F:140:MET:HE3	15:F:140:MET:HB3	1.91	0.41
9:FF:86:ARG:NH1	9:GF:278:SER:HA	2.35	0.41
9:FH:152:ILE:O	9:FH:156:ARG:HG2	2.20	0.41
9:FH:361:LEU:HD12	9:FH:361:LEU:HA	1.86	0.41
8:FI:119:LEU:HD23	8:FI:119:LEU:HA	1.84	0.41
9:FJ:1:MET:SD	9:FJ:2:ARG:N	2.94	0.41
8:FK:429:GLU:O	8:FK:433:GLU:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FM:395:PHE:O	8:FM:398:MET:HB2	2.20	0.41
9:FN:380:ARG:HA	9:FN:383:GLU:CD	2.46	0.41
9:GB:22:GLU:OE1	9:GB:23:VAL:HG13	2.20	0.41
9:GB:86:ARG:HE	9:HB:281:TYR:HB2	1.85	0.41
9:GB:152:ILE:O	9:GB:156:ARG:HG2	2.20	0.41
9:GB:416:ASN:HA	9:GB:419:VAL:HG22	2.03	0.41
9:GD:161:ASP:OD2	9:GD:162:ARG:NH1	2.51	0.41
9:GF:167:PHE:N	9:GF:167:PHE:CD2	2.89	0.41
9:GF:361:LEU:HD12	9:GF:361:LEU:HA	1.91	0.41
8:GI:399:TYR:O	8:GI:402:ARG:HD3	2.21	0.41
9:GJ:51:TYR:HB3	9:GJ:59:TYR:HB3	2.02	0.41
9:GL:21:TRP:CZ3	9:GL:61:PRO:HA	2.55	0.41
8:GM:341:ILE:HD13	8:GM:341:ILE:HA	1.87	0.41
9:GN:163:ILE:HD12	9:GN:250:LEU:HB2	2.02	0.41
8:GO:147:SER:OG	8:GO:190:THR:OG1	2.33	0.41
9:HB:156:ARG:NH1	9:HB:197:ASP:OD1	2.47	0.41
9:HB:198:GLU:HB2	9:HB:266:PHE:HE2	1.85	0.41
8:HC:384:ILE:HD11	8:HC:432:TYR:HE2	1.86	0.41
8:HE:99:ALA:HA	8:HE:105:ARG:HE	1.86	0.41
8:HE:397:LEU:HD13	8:HE:397:LEU:HA	1.89	0.41
9:HF:1:MET:HB3	9:HF:2:ARG:H	1.64	0.41
9:HF:9:ALA:HA	9:HF:66:VAL:O	2.20	0.41
9:HF:142:GLY:N	52:HF:502:GDP:O3B	2.46	0.41
9:HH:150:LEU:HG	9:HH:154:LYS:HE2	2.02	0.41
9:HH:189:VAL:HG11	9:HH:415:MET:SD	2.61	0.41
9:HH:361:LEU:HD12	9:HH:361:LEU:HA	1.85	0.41
9:HJ:68:LEU:HD23	9:HJ:68:LEU:HA	1.86	0.41
8:HK:175:PRO:HA	8:HK:390:ARG:NE	2.35	0.41
8:HM:88:HIS:HE2	8:IM:284:GLU:CD	2.29	0.41
8:HM:175:PRO:HA	8:HM:390:ARG:NH2	2.35	0.41
9:HN:174:LYS:HB2	9:HN:174:LYS:HE2	1.84	0.41
8:HO:275:VAL:C	8:HO:276:ILE:HD13	2.45	0.41
9:HP:67:ASP:OD1	9:HP:68:LEU:N	2.54	0.41
8:IC:37:PRO:O	8:IC:39:ASP:N	2.51	0.41
9:ID:167:PHE:CD1	9:ID:167:PHE:N	2.89	0.41
9:ID:297:LYS:HE2	9:ID:297:LYS:HB3	1.72	0.41
9:ID:334:GLN:HA	9:ID:341:PHE:CE2	2.56	0.41
8:IE:219:ILE:HD12	8:IE:219:ILE:HA	1.81	0.41
8:IE:345:ASP:OD1	8:IE:345:ASP:N	2.52	0.41
9:IF:87:PRO:HD3	8:JG:283:HIS:ND1	2.35	0.41
9:IF:229:VAL:O	9:IF:232:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IG:140:SER:HA	8:IG:171:ILE:H	1.86	0.41
8:II:90:GLU:HG2	8:II:121:ARG:NE	2.35	0.41
8:IK:21:TRP:HA	8:IK:24:TYR:CD2	2.56	0.41
8:IK:79:ARG:NH2	8:IK:89:PRO:HA	2.35	0.41
8:IK:281:ALA:HA	8:IK:284:GLU:OE2	2.21	0.41
9:IL:196:THR:HG21	9:IL:199:THR:OG1	2.21	0.41
9:IN:7:LEU:HD13	9:IN:151:LEU:HD13	2.03	0.41
9:IN:143:THR:HB	9:IN:147:MET:SD	2.61	0.41
9:IP:20:PHE:CE2	9:IP:233:MET:HB2	2.41	0.41
17:J:255:ARG:HB3	17:J:256:HIS:CE1	2.56	0.41
19:J1:256:ASP:OD1	19:J1:256:ASP:N	2.53	0.41
19:J2:90:ARG:NE	19:J2:90:ARG:HA	2.36	0.41
19:J2:222:GLN:HE22	41:b3:142:ARG:NH1	2.18	0.41
19:J4:70:LYS:H	19:J4:70:LYS:HG3	1.52	0.41
19:J4:248:LEU:HD21	8:LO:431:ASP:HA	2.02	0.41
9:JD:324:LYS:HB2	8:JE:221:ARG:NH2	2.36	0.41
8:JE:256:GLN:HA	8:JE:256:GLN:HE21	1.85	0.41
9:JH:161:ASP:OD1	9:JH:161:ASP:N	2.43	0.41
9:JH:268:PRO:O	9:JH:299:MET:HE1	2.20	0.41
8:JI:235:VAL:O	8:JI:239:THR:HG23	2.21	0.41
8:JK:344:VAL:HG21	8:JK:346:TRP:CE2	2.56	0.41
9:JL:11:GLN:OE1	9:JL:11:GLN:N	2.54	0.41
9:JL:133:PHE:O	9:JL:164:MET:HA	2.21	0.41
9:JL:183:TYR:HD1	9:JL:183:TYR:HA	1.75	0.41
9:JL:392:LYS:HB3	9:JL:392:LYS:HE3	1.75	0.41
8:JM:225:THR:HG21	13:K3:319:SER:OG	2.20	0.41
8:JO:269:LEU:HD12	8:JO:269:LEU:HA	1.80	0.41
8:JO:352:LYS:CE	9:JP:178:THR:HA	2.50	0.41
9:JP:101:TRP:HB2	9:JP:184:ASN:OD1	2.21	0.41
9:JP:257:MET:HA	9:JP:257:MET:HE2	2.03	0.41
13:K3:428:VAL:HG21	9:MN:216:LYS:HB2	2.02	0.41
9:KB:116:VAL:HG21	9:KB:151:LEU:HD21	2.03	0.41
8:KC:7:ILE:HD12	8:KC:7:ILE:HG23	1.80	0.41
8:KC:171:ILE:HD12	8:KC:206:ASN:HD21	1.86	0.41
9:KH:11:GLN:HB3	52:KH:502:GDP:O1A	2.21	0.41
9:KH:67:ASP:OD1	9:KH:68:LEU:N	2.51	0.41
8:KI:284:GLU:HG2	8:KI:286:LEU:HD22	2.03	0.41
8:KK:69:ASP:OD1	8:KK:70:LEU:N	2.53	0.41
9:KL:173:PRO:HG2	9:KL:174:LYS:HD3	2.03	0.41
9:KL:374:ILE:O	9:KL:377:LEU:HG	2.20	0.41
8:KM:163:LYS:HD3	41:b4:389:ALA:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KM:335:ILE:HD13	8:KM:335:ILE:HA	1.93	0.41
9:KN:4:ILE:HD13	9:KN:4:ILE:HA	1.93	0.41
9:KN:128:ASP:OD1	9:KN:128:ASP:N	2.53	0.41
9:KN:412:GLU:H	9:KN:412:GLU:HG2	1.73	0.41
8:KO:60:LYS:NZ	8:LO:282:TYR:O	2.53	0.41
9:KP:214:THR:HG21	9:KP:273:LEU:HB2	2.03	0.41
9:KP:296:ALA:O	9:KP:299:MET:HG2	2.20	0.41
8:LA:149:PHE:CD1	8:LA:152:LEU:HD11	2.56	0.41
8:LA:252:LEU:HA	8:LA:255:PHE:CE1	2.54	0.41
9:LB:101:TRP:CE3	9:LB:187:LEU:HD13	2.56	0.41
9:LD:146:GLY:O	9:LD:149:THR:OG1	2.37	0.41
8:LG:203:MET:HE1	8:LG:267:PHE:CG	2.56	0.41
8:LI:434:GLU:O	8:LI:437:VAL:HG12	2.21	0.41
8:LK:188:ILE:HG21	8:LK:395:PHE:CE1	2.56	0.41
8:LK:367:ASP:OD1	8:LK:367:ASP:N	2.54	0.41
9:LN:1:MET:HB3	9:LN:2:ARG:H	1.58	0.41
8:LO:2:ARG:HH22	25:O6:27:ARG:HD3	1.85	0.41
8:LO:102:ASN:ND2	8:LO:105:ARG:HG3	2.33	0.41
9:LP:117:LEU:HD23	9:LP:117:LEU:HA	1.87	0.41
17:M:276:TYR:OH	17:M:288:PHE:O	2.32	0.41
22:M2:116:THR:HG22	22:M2:137:PHE:HE1	1.86	0.41
22:M3:42:GLY:O	22:M3:45:THR:OG1	2.33	0.41
8:MI:430:LYS:O	8:MI:434:GLU:HG2	2.21	0.41
8:MK:130:THR:OG1	8:MK:131:GLY:N	2.52	0.41
8:MM:357:TYR:HD2	23:P:26:ARG:HD3	1.86	0.41
9:MP:31:ASP:OD1	9:MP:35:THR:N	2.53	0.41
17:N:267:ARG:HD2	17:N:269:HIS:NE2	2.36	0.41
15:N2:11:ARG:HA	15:N2:15:TRP:HB2	2.03	0.41
15:N2:44:ARG:O	15:N2:48:LYS:HG2	2.20	0.41
8:NA:3:GLU:OE2	8:NA:129:CYS:HB3	2.21	0.41
9:NB:170:VAL:HG21	9:NB:377:LEU:HD21	2.03	0.41
8:NC:141:PHE:HB2	8:NC:173:PRO:HD3	2.02	0.41
8:NC:402:ARG:HH22	8:NC:406:HIS:HB3	1.83	0.41
9:ND:103:LYS:HB3	9:ND:103:LYS:HE2	1.75	0.41
8:NE:227:LEU:O	8:NE:231:ILE:HG12	2.21	0.41
8:NE:286:LEU:HD12	8:NE:286:LEU:HA	1.88	0.41
8:NG:151:SER:CB	8:NG:193:THR:HG21	2.50	0.41
9:NJ:12:CYS:SG	9:NJ:138:SER:HB2	2.61	0.41
9:NJ:100:ASN:HB2	9:NJ:103:LYS:HD3	2.02	0.41
23:O:34:ARG:O	23:O:38:MET:HG3	2.20	0.41
24:O2:79:TYR:HE1	30:W5:47:TYR:HD2	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OE:70:LEU:HD23	8:OE:70:LEU:HA	1.93	0.41
9:OH:83:GLN:O	9:PH:281:TYR:OH	2.23	0.41
9:OJ:346:PRO:HG2	8:OK:394:LYS:HD3	2.02	0.41
9:OL:31:ASP:OD2	9:OL:33:THR:OG1	2.33	0.41
8:OM:48:SER:OG	8:OM:243:ARG:O	2.31	0.41
8:OM:413:MET:HE3	8:OM:413:MET:HB3	1.81	0.41
27:P7:171:ARG:HA	27:P7:171:ARG:NE	2.35	0.41
9:PB:10:GLY:O	9:PB:14:ASN:ND2	2.54	0.41
8:PC:193:THR:O	8:PC:197:HIS:HB2	2.21	0.41
8:PC:221:ARG:N	8:PC:222:PRO:HD3	2.35	0.41
8:PC:279:GLU:H	8:PC:279:GLU:CD	2.28	0.41
8:PI:196:GLU:OE1	8:PI:196:GLU:N	2.45	0.41
8:PI:414:GLU:CD	8:PI:416:GLY:H	2.29	0.41
9:PJ:374:ILE:HD12	9:PJ:374:ILE:HA	1.83	0.41
9:PL:36:TYR:OH	9:PL:40:SER:O	2.39	0.41
8:PM:276:ILE:HD12	8:PM:276:ILE:HA	1.88	0.41
28:Q2:122:ALA:CB	28:Q2:133:ARG:HH22	2.33	0.41
8:QC:88:HIS:CD2	8:RC:283:HIS:HB3	2.55	0.41
9:QD:134:GLN:HA	9:QD:165:ASN:OD1	2.21	0.41
9:QD:327:ASP:HB3	8:QE:177:VAL:HG21	2.02	0.41
9:QH:181:GLU:HG3	9:QH:182:PRO:HD3	2.02	0.41
9:QJ:208:TYR:HB3	9:QJ:212:PHE:CZ	2.56	0.41
9:QL:66:VAL:HG23	9:QL:91:VAL:HG13	2.01	0.41
8:QM:214:ARG:HH12	8:QM:215:ARG:NH2	2.19	0.41
8:QM:233:GLN:HG3	8:QM:272:TYR:CZ	2.56	0.41
8:QM:326:LYS:HG2	9:QN:208:TYR:CE1	2.56	0.41
9:QN:263:LEU:HD22	9:QN:422:TYR:CD2	2.54	0.41
11:R3:337:GLY:HA3	11:R4:63:ARG:NH1	2.36	0.41
11:R3:392:ASP:HB2	12:S8:337:TRP:CZ3	2.56	0.41
11:R4:294:GLN:HB3	11:R4:298:ARG:HE	1.86	0.41
8:RE:25:CYS:O	8:RE:30:ILE:N	2.52	0.41
8:RI:258:ASN:HD21	9:RJ:178:THR:HG23	1.86	0.41
9:RJ:112:LEU:HD12	9:RJ:112:LEU:O	2.20	0.41
9:RL:103:LYS:HB3	9:RL:103:LYS:HE2	1.87	0.41
9:RN:135:LEU:HD12	9:RN:136:THR:N	2.36	0.41
8:RO:326:LYS:HG3	9:RP:212:PHE:CE1	2.56	0.41
9:RP:42:LEU:HD23	9:RP:356:ILE:HD11	2.02	0.41
12:S0:275:ARG:NH2	12:S0:276:ASN:OD1	2.53	0.41
12:S1:372:ILE:H	12:S1:372:ILE:HG13	1.62	0.41
12:S3:350:ARG:HD2	12:S3:350:ARG:HA	1.91	0.41
12:S4:357:ALA:O	12:S4:361:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S5:53:ASN:OD1	12:S5:53:ASN:N	2.53	0.41
12:S6:132:TYR:HE1	12:S6:136:ARG:HD3	1.86	0.41
12:S6:185:LEU:CD2	12:S6:233:MET:HB3	2.48	0.41
12:S6:379:ILE:O	12:S6:383:LYS:HG2	2.21	0.41
12:S6:466:LEU:HA	12:S6:466:LEU:HD23	1.79	0.41
12:S7:196:ARG:NH1	12:S7:200:PHE:HB2	2.36	0.41
12:S9:180:ARG:NH2	12:S9:329:LEU:HD13	2.33	0.41
9:SB:388:MET:HE2	9:SB:388:MET:N	2.36	0.41
8:SC:36:MET:N	8:SC:36:MET:HE2	2.35	0.41
8:SE:398:MET:SD	8:SE:403:ALA:HB3	2.60	0.41
8:SG:188:ILE:HG13	8:SG:395:PHE:CG	2.56	0.41
8:SG:377:MET:HA	8:SG:377:MET:HE2	2.03	0.41
9:SH:313:VAL:HG13	9:SH:367:PHE:HE1	1.85	0.41
8:SI:230:LEU:HD13	8:SI:230:LEU:HA	1.89	0.41
9:SJ:375:GLN:OE1	9:SJ:423:GLN:HG3	2.20	0.41
8:SM:297:GLU:O	8:SM:301:GLN:NE2	2.37	0.41
8:SM:316:CYS:HB2	8:SM:378:LEU:HB2	2.02	0.41
9:SN:321:MET:SD	9:SN:321:MET:N	2.94	0.41
9:SN:401:GLU:HB2	9:SN:403:MET:HE1	2.02	0.41
25:T:300:VAL:HG12	25:T:321:LEU:HD21	2.02	0.41
14:T1:316:GLN:HG3	30:U4:271:ARG:HH21	1.84	0.41
14:T2:87:GLU:OE2	14:T2:88:THR:HG23	2.20	0.41
14:T3:48:THR:O	14:T3:50:LYS:HG2	2.20	0.41
14:T4:141:ALA:O	14:T4:145:THR:HG23	2.21	0.41
8:TA:101:ASN:HA	8:TA:144:GLY:H	1.86	0.41
8:TA:279:GLU:N	47:o:216:ILE:HD11	2.36	0.41
8:TC:311:LYS:H	8:TC:382:THR:HG22	1.85	0.41
9:TD:103:LYS:HB3	9:TD:108:GLU:CD	2.46	0.41
9:TD:176:SER:OG	9:TD:181:GLU:OE1	2.33	0.41
8:TE:352:LYS:HA	8:TE:352:LYS:HD3	1.82	0.41
9:TF:257:MET:SD	9:TF:312:THR:OG1	2.74	0.41
9:TF:267:MET:HE3	9:TF:367:PHE:HE2	1.85	0.41
9:TF:372:THR:HA	9:TF:422:TYR:CE1	2.47	0.41
8:TG:235:VAL:HA	8:TG:238:ILE:HD12	2.02	0.41
8:TG:296:PHE:CZ	8:TG:341:ILE:HD12	2.56	0.41
9:TH:346:PRO:HD3	8:TI:397:LEU:HD11	2.03	0.41
9:TJ:32:PRO:HA	9:TJ:84:ILE:HD11	2.03	0.41
9:TL:237:THR:HG22	9:TL:250:LEU:HD21	2.03	0.41
9:TN:313:VAL:HG12	9:TN:349:VAL:HG13	2.02	0.41
30:U0:213:LYS:HE2	30:U0:213:LYS:HB2	1.88	0.41
30:U0:242:ASP:CB	30:U0:310:MET:HE1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U0:347:ILE:O	30:U0:351:THR:HG23	2.21	0.41
30:U1:103:ILE:HD13	30:U1:103:ILE:HA	1.94	0.41
30:U1:427:LEU:HD23	30:U1:427:LEU:HA	1.80	0.41
30:U2:158:TYR:HB3	30:U2:162:ARG:HH21	1.85	0.41
30:U2:264:ASP:OD1	30:U2:264:ASP:N	2.54	0.41
30:U5:150:GLY:HA2	30:U5:153:LYS:HG2	2.02	0.41
30:U7:79:LEU:HD23	30:U7:79:LEU:HA	1.90	0.41
30:U7:222:LEU:CD2	30:U7:332:MET:HG2	2.51	0.41
8:UC:11:GLN:HB3	50:UC:501:GTP:PA	2.61	0.41
9:UH:310:TYR:CD1	9:UH:371:SER:HB2	2.55	0.41
8:UO:7:ILE:O	8:UO:7:ILE:HG22	2.21	0.41
25:V:341:THR:HG21	40:a3:151:PRO:HG2	2.02	0.41
30:V2:391:MET:HE2	30:V2:391:MET:HB2	1.93	0.41
30:V2:415:ARG:HA	30:V2:415:ARG:HD3	1.94	0.41
30:V4:249:SER:O	30:V4:252:ARG:HG2	2.21	0.41
30:V5:474:LYS:HE3	30:V5:474:LYS:HB2	1.89	0.41
30:V6:448:LYS:O	30:V6:452:GLU:HG3	2.19	0.41
30:V7:315:ILE:HG23	30:V7:318:ARG:HH21	1.85	0.41
30:V8:449:SER:HA	30:V8:452:GLU:OE2	2.21	0.41
9:VB:52:ASN:HB3	9:VB:60:VAL:HG23	2.03	0.41
8:VE:49:PHE:HE1	8:VE:55:GLU:HB2	1.85	0.41
8:VG:201:ALA:HB3	8:VG:203:MET:HE1	2.02	0.41
8:VG:221:ARG:HD3	8:VG:221:ARG:HA	1.83	0.41
9:VH:119:VAL:O	9:VH:123:GLU:HG2	2.21	0.41
9:VH:284:LEU:HD12	9:VH:284:LEU:HA	1.88	0.41
8:VI:217:LEU:HG	8:VI:219:ILE:HG12	2.03	0.41
9:VJ:155:ILE:HA	9:VJ:155:ILE:HD13	1.81	0.41
9:VJ:257:MET:HE1	9:VJ:314:ALA:HB2	2.03	0.41
9:VL:20:PHE:HB2	9:VL:233:MET:HE3	2.03	0.41
30:W0:144:GLN:NE2	30:W0:148:ASP:OD1	2.54	0.41
30:W5:382:ILE:HD12	30:W5:382:ILE:HA	1.90	0.41
9:WB:187:LEU:O	9:WB:191:GLN:NE2	2.53	0.41
9:WD:285:THR:O	9:WD:288:GLU:HG2	2.21	0.41
8:WE:180:ALA:HB3	8:WE:183:GLU:HB3	2.02	0.41
8:WE:252:LEU:HD13	8:WE:255:PHE:HE2	1.85	0.41
8:WE:319:TYR:CD2	8:WE:323:VAL:HG21	2.56	0.41
8:WG:21:TRP:CZ3	8:WG:63:PRO:HB3	2.56	0.41
8:WG:125:LEU:HD23	8:WG:125:LEU:HA	1.85	0.41
9:WH:174:LYS:HZ2	9:WH:174:LYS:HG2	1.66	0.41
9:WH:404:ASP:OD2	9:WH:406:MET:N	2.53	0.41
8:WI:157:LEU:HD23	8:WI:157:LEU:HA	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WI:185:TYR:O	8:WI:189:LEU:HG	2.21	0.41
9:WJ:210:ILE:HD13	9:WJ:210:ILE:HA	1.92	0.41
8:WK:7:ILE:HD11	8:WK:135:PHE:HB3	2.01	0.41
8:WK:79:ARG:HH21	8:WK:94:THR:HG23	1.86	0.41
8:WM:206:ASN:HB3	8:WM:210:TYR:CZ	2.56	0.41
9:WN:104:GLY:O	9:WN:147:MET:HB3	2.20	0.41
9:WP:8:GLN:HB3	9:WP:65:LEU:HA	2.03	0.41
31:X:350:LYS:HB2	40:a2:56:LEU:HD11	2.02	0.41
31:X:400:GLU:HG3	31:X:498:PHE:HE1	1.86	0.41
31:X:560:ARG:NH1	31:X:560:ARG:O	2.51	0.41
34:X6:258:ALA:HA	34:X6:261:VAL:HG12	2.02	0.41
35:XF:96:ASP:HA	35:XF:149:ILE:HD11	2.03	0.41
35:XH:21:PRO:HG2	37:YG:193:ASP:HB2	2.02	0.41
31:Y:284:LEU:HD12	31:Y:285:PRO:HD2	2.03	0.41
31:Y:362:THR:O	31:Y:366:THR:HG23	2.21	0.41
31:Y:459:SER:C	31:Y:461:ASP:H	2.28	0.41
31:Y:719:ASP:OD2	31:Y:728:ILE:HB	2.20	0.41
31:Y:728:ILE:HG21	31:Y:731:LYS:HG3	2.02	0.41
37:YH:108:GLU:H	37:YH:108:GLU:HG3	1.69	0.41
31:Z:575:LYS:H	31:Z:575:LYS:HG2	1.70	0.41
41:b1:384:LYS:NZ	41:b1:388:GLU:OE2	2.40	0.41
41:b2:374:THR:HG23	41:b3:112:PRO:HA	2.03	0.41
41:b4:232:ASP:OD1	41:b4:232:ASP:N	2.54	0.41
41:b4:336:LEU:HD12	41:b4:461:VAL:HG12	2.03	0.41
39:d:416:THR:HA	39:d:419:LYS:HE3	2.02	0.41
42:e:341:PRO:HD3	42:e:348:PHE:HA	2.02	0.41
42:f:517:ILE:HG12	42:f:529:TRP:HB2	2.02	0.41
42:g:30:LEU:HD11	42:g:39:LEU:HD22	2.02	0.41
42:g:416:HIS:CD2	42:g:420:VAL:HG22	2.54	0.41
44:h4:86:ASP:HA	44:h4:95:ARG:NH1	2.36	0.41
4:j1:124:LYS:HA	4:j1:124:LYS:HD3	1.83	0.41
4:j1:141:LYS:HB2	4:j1:141:LYS:HE2	1.77	0.41
43:k:207:VAL:HG11	43:k:233:GLU:HB2	2.01	0.41
45:l:81:LEU:HD13	45:l:117:PRO:HD3	2.02	0.41
1:0:55:ARG:HA	1:0:58:PHE:CD2	2.56	0.41
2:1:534:PHE:CD2	8:IE:281:ALA:HB1	2.56	0.41
2:1:697:PRO:HG2	5:8:37:ARG:HG2	2.02	0.41
3:3:16:PRO:HD3	9:OL:212:PHE:CE2	2.56	0.41
3:3:171:ILE:HD13	3:3:171:ILE:HA	1.84	0.41
3:3:193:GLN:O	3:3:196:VAL:HG12	2.21	0.41
4:5:57:HIS:CD2	8:IC:44:GLY:HA3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:189:ASP:OD2	1:7:191:ASN:N	2.43	0.41
7:A1:132:VAL:HG22	7:A1:263:ALA:HB1	2.03	0.41
7:A1:205:VAL:O	7:A1:207:ILE:HG13	2.21	0.41
7:A2:106:LYS:HE2	7:A2:106:LYS:HB2	1.87	0.41
7:A3:336:ARG:NE	7:A4:58:ASP:OD2	2.50	0.41
8:AA:8:HIS:CD2	8:AA:8:HIS:H	2.39	0.41
8:AA:285:GLN:HB2	8:MA:56:THR:HA	2.02	0.41
8:AG:317:MET:HE3	8:AG:317:MET:HB3	1.92	0.41
8:AI:260:VAL:HB	9:AJ:397:TRP:HZ2	1.86	0.41
8:AI:304:LYS:HZ3	8:AI:304:LYS:HG3	1.70	0.41
9:AJ:323:MET:H	9:AJ:323:MET:HG3	1.58	0.41
8:AK:201:ALA:O	8:AK:268:PRO:HD2	2.19	0.41
9:AN:372:THR:HG21	9:AN:426:GLN:CD	2.45	0.41
8:AO:223:THR:OG1	8:AO:224:TYR:N	2.54	0.41
8:AO:325:PRO:HA	8:AO:328:VAL:HB	2.02	0.41
9:AP:202:ILE:HD13	9:AP:202:ILE:HA	1.93	0.41
11:B1:168:ILE:HG12	11:B1:228:ARG:NH2	2.36	0.41
11:B3:303:ASP:O	11:B3:306:ARG:HG2	2.21	0.41
11:B5:386:LEU:HD12	11:B5:387:ASP:N	2.36	0.41
9:BB:257:MET:N	9:BB:257:MET:SD	2.94	0.41
9:BB:406:MET:HE3	9:BB:406:MET:HB3	1.90	0.41
8:BC:2:ARG:HB3	8:BC:242:LEU:HD23	2.03	0.41
8:BE:88:HIS:NE2	8:BE:90:GLU:HB3	2.35	0.41
8:BG:430:LYS:HA	8:BG:430:LYS:HD3	1.85	0.41
9:BH:333:VAL:HA	9:BH:336:LYS:HG2	2.03	0.41
8:BI:234:ILE:HG13	8:BI:302:MET:HE1	2.03	0.41
9:BJ:180:VAL:HG22	9:BJ:183:TYR:HB2	2.02	0.41
8:BK:15:GLN:O	8:BK:18:ASN:OD1	2.39	0.41
8:BK:22:GLU:O	8:BK:26:LEU:HG	2.21	0.41
9:BL:190:HIS:O	9:BL:194:GLU:HG2	2.21	0.41
8:BM:88:HIS:HA	8:BM:89:PRO:HD3	1.96	0.41
9:BP:181:GLU:HB3	9:BP:182:PRO:HD3	2.03	0.41
9:BP:254:ALA:HA	9:BP:257:MET:HE3	2.03	0.41
9:BP:330:MET:HE3	9:BP:349:VAL:HB	2.02	0.41
10:C:357:GLN:OE1	8:HK:369:ALA:HA	2.20	0.41
12:C2:254:LEU:HD23	12:C2:254:LEU:HA	1.90	0.41
12:C6:85:SER:HB3	14:D4:46:PHE:CG	2.55	0.41
9:CB:26:ASP:OD2	9:CB:27:GLU:N	2.54	0.41
8:CC:28:HIS:HE1	8:CC:48:SER:HB3	1.85	0.41
8:CC:132:LEU:HB3	8:CC:164:LYS:HZ2	1.85	0.41
8:CE:317:MET:HE1	8:CE:377:MET:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CG:46:ASP:OD2	31:X:263:ARG:HD3	2.21	0.41
8:CI:71:GLU:H	8:CI:71:GLU:HG2	1.74	0.41
8:CI:203:MET:HE3	8:CI:388:TRP:CH2	2.56	0.41
8:CK:111:GLY:O	8:CK:115:VAL:HG23	2.20	0.41
8:CM:49:PHE:HE2	8:CM:55:GLU:HB2	1.86	0.41
8:CM:81:GLY:O	40:a3:10:LYS:NZ	2.54	0.41
8:CM:252:LEU:H	8:CM:252:LEU:HD23	1.85	0.41
8:CO:269:LEU:HD13	8:CO:303:VAL:HG21	2.02	0.41
8:CO:286:LEU:HG	8:CO:373:ARG:HH11	1.86	0.41
9:CP:388:MET:HE1	9:CP:394:PHE:HB2	2.01	0.41
14:D0:95:THR:HG22	14:D1:380:GLU:OE2	2.20	0.41
14:D3:154:ASP:N	28:Q3:116:MET:HE1	2.36	0.41
14:D4:318:LEU:HD23	14:D4:318:LEU:HA	1.89	0.41
14:D5:339:LEU:HD21	14:D5:394:LYS:HG2	2.03	0.41
8:DE:113:GLU:OE1	8:DE:113:GLU:N	2.54	0.41
8:DE:223:THR:OG1	8:DE:224:TYR:N	2.53	0.41
8:DG:84:ARG:HE	17:J:17:ILE:HG12	1.86	0.41
8:DG:84:ARG:NH2	17:J:15:HIS:O	2.53	0.41
8:DK:130:THR:OG1	8:DK:131:GLY:N	2.54	0.41
9:DL:5:VAL:HG23	9:DL:130:LEU:HD11	2.03	0.41
9:DL:361:LEU:HA	9:DL:361:LEU:HD12	1.79	0.41
9:DP:48:ASN:O	9:DP:62:ARG:NH2	2.42	0.41
15:E:95:MET:HE3	15:E:95:MET:HB3	1.80	0.41
8:EA:169:PHE:HZ	8:EA:238:ILE:HD12	1.85	0.41
8:EC:219:ILE:HD11	8:EC:367:ASP:HB3	2.02	0.41
8:EE:431:ASP:O	8:EE:435:VAL:HG23	2.20	0.41
9:EF:118:ASP:OD1	9:EF:121:ARG:NH2	2.47	0.41
9:EL:247:ASN:ND2	8:EM:74:VAL:HG22	2.36	0.41
8:FA:15:GLN:HB3	8:FA:228:ASN:ND2	2.36	0.41
8:FE:2:ARG:HB3	8:FE:242:LEU:HD23	2.03	0.41
8:FG:335:ILE:HD13	8:FG:335:ILE:HA	1.96	0.41
8:FK:174:ALA:HA	8:FK:205:ASP:HB2	2.02	0.41
8:FM:170:ALA:HB3	8:FM:203:MET:SD	2.61	0.41
16:G:84:GLN:O	8:GK:46:ASP:N	2.54	0.41
8:GA:66:VAL:HG12	8:GA:68:VAL:HG13	2.03	0.41
8:GA:325:PRO:HB2	9:GB:208:TYR:OH	2.20	0.41
8:GC:120:ASP:HB3	8:GC:123:ARG:NH2	2.35	0.41
8:GC:152:LEU:HD23	8:GC:152:LEU:HA	1.82	0.41
8:GC:171:ILE:HD12	8:GC:206:ASN:HD21	1.86	0.41
8:GC:239:THR:HG23	8:GC:242:LEU:HD23	2.03	0.41
8:GE:320:ARG:O	8:GE:374:ALA:N	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GF:293:MET:HE3	9:GF:293:MET:C	2.46	0.41
8:GG:132:LEU:H	8:GG:132:LEU:HD12	1.85	0.41
8:GG:264:ARG:NH1	8:GG:431:ASP:OD2	2.50	0.41
8:GG:338:LYS:HE2	8:GG:341:ILE:HG12	2.01	0.41
8:GI:50:ASN:O	8:GI:64:ARG:NH1	2.53	0.41
8:GI:302:MET:HB3	8:GI:302:MET:HE2	1.57	0.41
9:GJ:117:LEU:HA	9:GJ:120:VAL:CG1	2.51	0.41
8:GK:234:ILE:O	8:GK:238:ILE:HG12	2.21	0.41
8:GK:286:LEU:HD23	8:GK:286:LEU:HA	1.86	0.41
8:GM:172:TYR:HB2	8:GM:203:MET:HB2	2.03	0.41
9:GN:318:ARG:NH2	9:GN:356:ILE:O	2.40	0.41
8:GO:324:VAL:HG12	8:GO:326:LYS:HG2	2.03	0.41
17:H:55:VAL:HG23	17:H:56:LEU:HD23	2.02	0.41
8:HA:49:PHE:CD2	8:HA:53:PHE:HB2	2.54	0.41
8:HA:241:SER:HB3	8:HA:250:VAL:H	1.86	0.41
8:HA:319:TYR:CE2	8:HA:328:VAL:HG22	2.55	0.41
8:HC:74:VAL:O	8:HC:76:ASP:N	2.53	0.41
8:HI:265:ILE:HG12	8:HI:432:TYR:HE1	1.86	0.41
9:HJ:6:HIS:CD2	9:HJ:20:PHE:HE2	2.39	0.41
9:HJ:155:ILE:O	9:HJ:159:TYR:N	2.42	0.41
8:HK:121:ARG:HH22	8:HK:125:LEU:HG	1.85	0.41
8:HK:215:ARG:NH1	8:HK:216:ASN:OD1	2.54	0.41
9:HN:69:GLU:HG3	9:HN:71:GLY:H	1.86	0.41
9:HN:286:VAL:HA	9:HN:289:LEU:HB2	2.02	0.41
8:HO:315:CYS:HB2	8:HO:350:GLY:O	2.21	0.41
9:HP:135:LEU:O	9:HP:166:THR:HA	2.20	0.41
8:IA:2:ARG:H	8:IA:2:ARG:HG3	1.65	0.41
8:IA:217:LEU:HB3	8:IA:219:ILE:HG12	2.02	0.41
9:IB:318:ARG:HD3	9:IB:358:PRO:CD	2.50	0.41
9:ID:178:THR:HG22	9:ID:180:VAL:H	1.86	0.41
8:IE:93:ILE:HD13	8:IE:117:LEU:HD22	2.03	0.41
8:IE:108:TYR:HB2	8:IE:411:GLU:OE2	2.20	0.41
8:IE:111:GLY:O	8:IE:115:VAL:HG23	2.20	0.41
9:IH:135:LEU:HD12	9:IH:136:THR:N	2.36	0.41
9:IH:198:GLU:HB3	9:IH:266:PHE:CE2	2.53	0.41
8:II:1:MET:HE1	9:IJ:70:PRO:HD2	2.03	0.41
8:II:381:THR:OG1	8:II:382:THR:N	2.53	0.41
9:IL:86:ARG:HG3	9:IL:89:ASN:H	1.85	0.41
9:IN:167:PHE:CD2	9:IN:233:MET:HE2	2.55	0.41
9:IN:167:PHE:CE2	9:IN:233:MET:HE2	2.55	0.41
9:IN:250:LEU:HD23	9:IN:250:LEU:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IO:203:MET:SD	8:IO:303:VAL:HG21	2.60	0.41
9:IP:3:GLU:HA	9:IP:49:VAL:HA	2.03	0.41
9:IP:65:LEU:HG	9:IP:73:MET:HE1	2.02	0.41
9:IP:403:MET:H	9:IP:403:MET:HG3	1.76	0.41
19:J1:182:LEU:HD11	9:OB:215:LEU:HD22	2.03	0.41
19:J2:83:PHE:HD1	8:OC:370:LYS:HZ3	1.68	0.41
19:J4:253:THR:OG1	19:J4:256:ASP:OD2	2.38	0.41
8:JC:124:LYS:O	8:JC:128:LEU:HD23	2.21	0.41
9:JD:246:LEU:HD23	9:JD:246:LEU:HA	1.78	0.41
9:JD:285:THR:HG23	9:JD:288:GLU:H	1.85	0.41
8:JE:422:ARG:HH12	8:JE:426:ALA:HB2	1.86	0.41
9:JF:375:GLN:NE2	9:JF:423:GLN:OE1	2.32	0.41
8:JG:52:PHE:CE1	8:JG:243:ARG:HD3	2.56	0.41
9:JH:47:ILE:H	9:JH:47:ILE:HG12	1.64	0.41
9:JH:247:ASN:N	9:JH:247:ASN:OD1	2.53	0.41
9:JH:395:LEU:HD12	9:JH:395:LEU:HA	1.93	0.41
8:JI:189:LEU:HA	8:JI:189:LEU:HD13	1.91	0.41
9:JJ:144:GLY:N	52:JJ:502:GDP:O1B	2.40	0.41
9:JJ:211:CYS:HA	9:JJ:215:LEU:HB2	2.02	0.41
9:JL:217:LEU:HD21	9:JL:276:ARG:HD2	2.02	0.41
9:JL:368:ILE:HD13	9:JL:368:ILE:HA	1.92	0.41
8:JO:62:VAL:HA	8:JO:63:PRO:HD3	1.87	0.41
8:JO:85:GLN:OE1	8:JO:85:GLN:N	2.49	0.41
8:JO:192:HIS:NE2	8:JO:421:ALA:HA	2.35	0.41
9:JP:208:TYR:CE1	9:JP:225:LEU:HD11	2.55	0.41
8:JQ:115:VAL:O	8:JQ:119:LEU:HG	2.21	0.41
8:JQ:167:LEU:HD11	8:JQ:256:GLN:HE21	1.85	0.41
8:JQ:217:LEU:HD13	8:JQ:217:LEU:HA	1.81	0.41
8:JQ:269:LEU:HD23	8:JQ:303:VAL:HB	2.02	0.41
20:K2:55:MET:HE3	8:UO:18:ASN:C	2.45	0.41
8:KA:2:ARG:NE	8:KA:242:LEU:O	2.54	0.41
8:KA:188:ILE:HG13	8:KA:395:PHE:CD1	2.55	0.41
8:KC:88:HIS:CD2	8:LC:283:HIS:HB3	2.56	0.41
8:KE:11:GLN:HA	8:KE:74:VAL:HG11	2.03	0.41
8:KE:201:ALA:O	8:KE:268:PRO:HD2	2.21	0.41
8:KE:417:GLU:HG2	41:b2:366:LYS:HZ2	1.85	0.41
9:KH:66:VAL:HG21	9:KH:147:MET:HE1	2.02	0.41
8:KI:153:LEU:O	8:KI:157:LEU:HB2	2.20	0.41
8:KK:23:LEU:HG	8:KK:27:GLU:OE2	2.21	0.41
8:KK:183:GLU:CD	8:KK:184:PRO:HD3	2.46	0.41
9:KL:116:VAL:O	9:KL:120:VAL:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KM:27:GLU:CD	8:KM:27:GLU:C	2.89	0.41
8:KO:332:ILE:HD11	8:KO:353:VAL:HG21	2.01	0.41
9:KP:404:ASP:N	9:KP:404:ASP:OD1	2.49	0.41
9:LB:324:LYS:HZ3	8:LC:210:TYR:HB3	1.80	0.41
9:LB:376:GLU:HG2	9:LB:380:ARG:HH21	1.86	0.41
9:LB:404:ASP:OD1	9:LB:406:MET:N	2.54	0.41
8:LE:335:ILE:HD11	8:LE:341:ILE:HG13	2.03	0.41
9:LH:271:ALA:O	9:LH:273:LEU:N	2.51	0.41
8:LI:220:GLU:OE1	8:LI:221:ARG:HG3	2.21	0.41
9:LJ:91:VAL:HG11	9:LJ:116:VAL:HG23	2.02	0.41
9:LJ:262:ARG:HE	9:LJ:262:ARG:HB3	1.77	0.41
8:LM:319:TYR:HE2	8:LM:328:VAL:HG13	1.86	0.41
8:LO:7:ILE:HD11	8:LO:135:PHE:CD1	2.56	0.41
9:MB:152:ILE:HG12	9:MB:164:MET:HE1	2.02	0.41
8:ME:49:PHE:HB2	8:ME:53:PHE:HD2	1.86	0.41
8:ME:265:ILE:HG23	8:ME:432:TYR:CZ	2.56	0.41
8:ME:332:ILE:O	8:ME:335:ILE:HG22	2.20	0.41
8:MG:286:LEU:HD12	8:MG:286:LEU:HA	1.80	0.41
8:MI:2:ARG:HB3	8:MI:133:GLN:HE21	1.85	0.41
8:MI:138:PHE:HA	8:MI:169:PHE:O	2.21	0.41
9:MJ:111:GLU:H	9:MJ:111:GLU:CD	2.28	0.41
9:MJ:304:ASP:HB3	9:MJ:307:HIS:CE1	2.56	0.41
8:MK:124:LYS:HA	8:MK:124:LYS:HD3	1.86	0.41
8:MK:302:MET:HE2	8:MK:302:MET:HB3	1.95	0.41
9:ML:290:THR:HA	9:ML:293:MET:HB2	2.03	0.41
8:MM:209:ILE:H	8:MM:209:ILE:HG13	1.68	0.41
8:MO:298:PRO:HA	8:MO:301:GLN:HG2	2.03	0.41
9:MP:305:PRO:HA	9:MP:373:ALA:HB2	2.03	0.41
9:NB:68:LEU:H	9:NB:143:THR:HG21	1.86	0.41
9:NB:121:ARG:CZ	9:NB:158:GLU:HG2	2.51	0.41
9:NB:133:PHE:HB3	9:NB:164:MET:HE1	2.02	0.41
8:NC:9:VAL:HG12	8:NC:146:GLY:HA2	2.03	0.41
8:NC:123:ARG:HH22	8:OC:293:ASN:HB3	1.85	0.41
9:ND:167:PHE:CE1	9:ND:233:MET:HB3	2.56	0.41
8:NE:139:HIS:NE2	8:NE:168:GLU:OE2	2.54	0.41
9:NF:2:ARG:NH2	8:NG:72:PRO:HD2	2.36	0.41
9:NF:8:GLN:NE2	9:NF:14:ASN:O	2.54	0.41
8:NG:5:ILE:HD12	8:NG:135:PHE:HE1	1.86	0.41
8:NI:7:ILE:HB	8:NI:137:ILE:HD12	2.03	0.41
9:NJ:6:HIS:CG	9:NJ:21:TRP:HZ2	2.39	0.41
8:NK:223:THR:OG1	8:NK:224:TYR:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:NK:317:MET:N	8:NK:317:MET:SD	2.89	0.41
9:NL:404:ASP:OD1	9:NL:404:ASP:N	2.41	0.41
8:NM:70:LEU:HA	8:NM:70:LEU:HD23	1.95	0.41
8:NO:319:TYR:CD2	8:NO:323:VAL:HG21	2.56	0.41
9:NP:159:TYR:HB3	9:NP:162:ARG:HG2	2.02	0.41
24:O2:94:VAL:HG22	24:O2:99:GLY:HA3	2.03	0.41
24:O2:156:GLU:OE2	24:O2:163:ASN:HA	2.20	0.41
24:O4:151:GLN:HG2	30:W7:47:TYR:CE2	2.55	0.41
8:OA:166:LYS:HG2	8:OA:199:ASP:OD2	2.21	0.41
8:OA:402:ARG:HD2	8:OA:402:ARG:HA	1.88	0.41
9:OB:3:GLU:HG2	9:OB:62:ARG:HH12	1.85	0.41
8:OG:431:ASP:O	8:OG:435:VAL:HG23	2.21	0.41
9:OJ:4:ILE:HA	9:OJ:132:GLY:O	2.21	0.41
9:OL:289:LEU:O	9:OL:292:GLN:N	2.54	0.41
8:OO:89:PRO:HG2	8:PO:279:GLU:OE1	2.21	0.41
8:OO:125:LEU:HD23	8:OO:125:LEU:HA	1.83	0.41
27:P4:137:GLU:HB3	27:P4:150:TYR:CE1	2.56	0.41
8:PC:20:CYS:HG	8:PC:24:TYR:HE1	1.65	0.41
8:PC:154:MET:HE3	8:PC:193:THR:HG22	2.02	0.41
8:PC:320:ARG:HD3	8:PC:360:PRO:HG3	2.03	0.41
8:PE:138:PHE:HA	8:PE:169:PHE:O	2.21	0.41
9:PJ:86:ARG:HB3	9:PJ:89:ASN:CG	2.45	0.41
9:PJ:289:LEU:HB3	9:PJ:293:MET:HE1	2.02	0.41
8:PK:326:LYS:HG3	9:PL:220:PRO:HD2	2.03	0.41
8:PM:386:GLU:OE1	8:PM:386:GLU:N	2.51	0.41
9:PN:279:GLN:H	9:PN:279:GLN:HG2	1.69	0.41
28:Q2:117:ALA:HA	28:Q2:119:TRP:CZ3	2.56	0.41
9:QB:334:GLN:HA	9:QB:341:PHE:CE2	2.56	0.41
8:QC:238:ILE:HA	8:QC:318:LEU:HD21	2.03	0.41
8:QC:360:PRO:O	8:QC:370:LYS:NZ	2.46	0.41
9:QD:120:VAL:HG13	9:QD:133:PHE:CE2	2.55	0.41
8:QG:1:MET:CE	8:QG:50:ASN:HB3	2.47	0.41
8:QG:88:HIS:HE2	8:RG:284:GLU:HB2	1.85	0.41
9:QH:139:LEU:HA	9:QH:145:SER:HB2	2.03	0.41
9:QH:203:ASP:H	9:QH:300:MET:HE1	1.85	0.41
8:QI:125:LEU:HD23	8:QI:125:LEU:HA	1.83	0.41
8:QI:268:PRO:HA	8:QI:380:ASN:HA	2.02	0.41
8:QI:280:LYS:HD2	8:QI:280:LYS:HA	1.89	0.41
8:QI:317:MET:HE1	8:QI:351:PHE:HB3	2.03	0.41
8:QI:322:ASP:OD1	8:QI:322:ASP:N	2.54	0.41
9:QL:270:PHE:CD2	9:QL:272:PRO:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:QO:141:PHE:CE2	8:QO:172:TYR:HA	2.55	0.41
11:R0:262:GLU:OE2	11:R0:394:ARG:NE	2.51	0.41
9:RJ:344:TRP:HZ3	8:RK:403:ALA:HB2	1.84	0.41
8:RM:176:GLN:OE1	8:RM:177:VAL:HG23	2.20	0.41
12:S2:486:LEU:HA	12:S2:486:LEU:HD12	1.74	0.41
12:S4:261:LYS:HE3	12:S4:300:TRP:CZ2	2.55	0.41
12:S5:465:THR:HA	12:S5:468:ILE:HG12	2.03	0.41
12:S9:408:ASN:OD1	12:S9:408:ASN:N	2.51	0.41
8:SE:313:MET:HE3	8:SE:313:MET:H	1.84	0.41
8:SI:352:LYS:HD2	9:SJ:177:ASP:O	2.21	0.41
9:SJ:10:GLY:O	9:SJ:14:ASN:ND2	2.53	0.41
9:SJ:293:MET:HE2	9:SJ:367:PHE:HB2	2.03	0.41
9:SL:221:THR:N	9:SL:224:ASP:OD2	2.53	0.41
9:SN:123:GLU:O	9:SN:126:SER:OG	2.33	0.41
14:T2:294:ARG:HD2	30:U2:373:ASN:ND2	2.36	0.41
14:T2:343:ILE:HD13	14:T2:391:LEU:HB3	2.03	0.41
8:TG:182:VAL:O	8:TG:186:ASN:ND2	2.54	0.41
9:TH:202:ILE:HD11	9:TH:207:LEU:HD11	2.02	0.41
9:TH:300:MET:H	9:TH:300:MET:CE	2.34	0.41
9:TH:324:LYS:HE2	8:TI:210:TYR:HB3	2.02	0.41
8:TI:226:ASN:HA	8:TI:229:ARG:NE	2.36	0.41
8:TM:31:GLN:HB2	8:TM:33:ASP:OD1	2.21	0.41
8:TM:111:GLY:O	8:TM:115:VAL:HG23	2.21	0.41
9:TN:226:ASN:HA	9:TN:229:VAL:HG22	2.03	0.41
25:U:282:ASN:C	25:U:284:GLY:H	2.29	0.41
30:U0:329:SER:HA	30:U0:482:LEU:HD23	2.02	0.41
30:U1:388:PRO:HA	30:U1:391:MET:HB2	2.02	0.41
30:U5:141:ASN:HA	30:U5:144:GLN:HG3	2.01	0.41
30:U5:219:VAL:HG12	30:U5:223:LYS:HZ2	1.86	0.41
30:U7:427:LEU:HD23	30:U7:427:LEU:HA	1.91	0.41
8:UA:79:ARG:HH21	8:UA:94:THR:HG23	1.86	0.41
8:UA:290:GLU:OE1	8:UA:291:ILE:N	2.54	0.41
8:UC:79:ARG:NH2	8:UC:92:LEU:O	2.54	0.41
9:UH:253:LEU:O	9:UH:257:MET:HG2	2.20	0.41
8:UI:36:MET:HG3	8:UI:61:HIS:NE2	2.36	0.41
9:UJ:284:LEU:HD23	9:UJ:284:LEU:HA	1.83	0.41
9:UL:2:ARG:HH22	8:UM:97:GLU:HA	1.86	0.41
8:UM:226:ASN:ND2	8:UM:367:ASP:OD2	2.53	0.41
25:V:161:ASP:OD1	25:V:161:ASP:N	2.53	0.41
25:V:474:LYS:HE3	25:V:499:PHE:HD1	1.86	0.41
30:V7:263:ILE:HD11	30:W0:175:ARG:NH2	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V9:361:LEU:HD13	30:V9:451:LEU:CB	2.51	0.41
8:VG:88:HIS:HB3	8:VG:91:GLN:HB3	2.02	0.41
8:VG:190:THR:O	8:VG:194:THR:HG23	2.20	0.41
8:VI:69:ASP:O	8:VI:94:THR:HA	2.21	0.41
9:VJ:46:ARG:HD3	9:VJ:46:ARG:HA	1.90	0.41
9:VJ:287:PRO:HA	9:VJ:329:GLN:OE1	2.21	0.41
8:VM:88:HIS:CD2	8:VM:90:GLU:H	2.38	0.41
9:VN:36:TYR:CG	9:VN:44:LEU:HD22	2.55	0.41
8:VO:324:VAL:HB	8:VO:327:ASP:OD2	2.21	0.41
30:W0:368:ILE:HD13	30:W0:368:ILE:HA	1.91	0.41
30:W0:378:LEU:HD11	30:W0:433:ARG:CG	2.48	0.41
30:W2:222:LEU:O	30:W2:226:GLN:HG3	2.21	0.41
30:W2:332:MET:HE2	30:W2:336:PHE:HZ	1.86	0.41
30:W7:372:GLU:O	30:W7:375:ILE:HG22	2.20	0.41
9:WB:253:LEU:O	9:WB:257:MET:HG2	2.21	0.41
8:WC:154:MET:HE3	8:WC:193:THR:HB	2.02	0.41
8:WC:209:ILE:HG21	8:WC:227:LEU:HG	2.02	0.41
9:WD:198:GLU:HA	9:WD:264:HIS:HB2	2.02	0.41
9:WD:332:ASN:O	9:WD:336:LYS:HG2	2.21	0.41
8:WE:108:TYR:HA	8:WE:112:LYS:HE3	2.03	0.41
8:WE:125:LEU:HA	8:WE:125:LEU:HD23	1.82	0.41
9:WF:238:THR:HG22	9:WF:241:ARG:NH2	2.33	0.41
9:WF:326:VAL:HG23	9:WF:326:VAL:H	1.71	0.41
9:WF:344:TRP:H	9:WF:344:TRP:CD1	2.39	0.41
9:WJ:285:THR:OG1	9:WJ:287:PRO:HD2	2.20	0.41
9:WJ:367:PHE:O	9:WJ:368:ILE:HD13	2.20	0.41
9:WL:150:LEU:O	9:WL:154:LYS:HG2	2.21	0.41
9:WP:324:LYS:HE2	9:WP:324:LYS:HB3	1.89	0.41
34:X6:200:VAL:O	34:X6:204:VAL:HG22	2.20	0.41
34:X6:214:ASP:N	34:X6:214:ASP:OD1	2.49	0.41
34:X8:14:LEU:HD12	34:X8:14:LEU:H	1.86	0.41
34:X8:38:VAL:HG21	34:X8:89:VAL:HG13	2.01	0.41
35:XC:131:GLN:NE2	35:XC:183:LEU:HD22	2.36	0.41
35:XC:164:ARG:NH2	35:XC:181:PHE:HA	2.36	0.41
35:XD:15:TYR:CD1	35:XD:164:ARG:HB2	2.56	0.41
35:XD:41:ASP:OD2	35:XD:185:LEU:HD23	2.21	0.41
35:XF:114:VAL:C	35:XF:115:LYS:HG3	2.46	0.41
35:XF:115:LYS:HB2	35:XF:118:ILE:HG22	2.02	0.41
31:Y:394:THR:OG1	31:Y:395:GLY:N	2.53	0.41
36:Y1:186:ARG:HG3	36:Y1:187:GLN:H	1.85	0.41
37:YD:32:MET:HE3	37:YD:32:MET:HB3	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Z5:228:PHE:HA	17:Z5:231:VAL:HG23	2.03	0.41
40:a2:124:THR:HG21	40:a2:132:LYS:NZ	2.31	0.41
41:b2:375:ARG:HB2	41:b2:422:LEU:HD22	2.02	0.41
41:b2:377:ILE:O	41:b3:115:ARG:NH1	2.53	0.41
39:c:135:LYS:O	39:c:138:ILE:HG13	2.21	0.41
42:e:351:CYS:HB3	42:e:380:ILE:HB	2.03	0.41
42:g:306:PHE:HE1	42:g:316:ARG:HG3	1.86	0.41
44:h1:84:LEU:O	44:h1:85:GLU:HG3	2.21	0.41
44:h1:108:LYS:HB3	44:h1:109:GLY:H	1.73	0.41
44:h3:58:MET:HA	44:h3:59:PRO:HD3	1.86	0.41
44:h3:79:ILE:HD13	44:h3:79:ILE:HG21	1.84	0.41
46:i3:1511:LEU:HD23	46:i3:1511:LEU:HA	1.80	0.41
45:l:73:LYS:HD2	45:l:73:LYS:HA	1.88	0.41
45:m:92:LEU:HD12	45:m:92:LEU:HA	1.81	0.41
45:m:94:LYS:HD2	45:m:94:LYS:HA	1.96	0.41
45:m:102:LEU:O	45:m:108:GLY:HA3	2.19	0.41
2:1:440:TYR:HE1	9:HB:57:GLY:HA2	1.86	0.41
2:2:478:GLY:O	2:2:482:ALA:HB2	2.20	0.41
2:2:479:ARG:HG2	2:2:483:LYS:NZ	2.36	0.41
3:3:205:TRP:HH2	9:GJ:282:ARG:HH21	1.68	0.41
4:5:304:TYR:CZ	4:5:321:LEU:HD22	2.56	0.41
4:5:321:LEU:HD12	4:5:321:LEU:HA	1.80	0.41
1:7:182:LYS:O	8:KE:46:ASP:N	2.54	0.41
7:A0:338:ILE:HA	7:A1:206:ARG:NH1	2.35	0.41
7:A1:277:LYS:HB2	7:A1:277:LYS:HE3	1.89	0.41
7:A1:278:LEU:HD23	7:A1:278:LEU:HA	1.85	0.41
7:A1:289:ILE:HG12	7:A1:365:LEU:HB3	2.03	0.41
7:A2:93:THR:O	7:A2:97:ARG:HG3	2.21	0.41
7:A3:68:GLU:C	11:B3:270:ARG:HH22	2.29	0.41
8:AA:264:ARG:HH22	8:AA:427:ALA:HB3	1.86	0.41
8:AC:49:PHE:HD1	8:AC:53:PHE:HB2	1.86	0.41
8:AC:101:ASN:HA	8:AC:144:GLY:H	1.86	0.41
9:AD:3:GLU:HG2	9:AD:127:CYS:SG	2.61	0.41
9:AD:21:TRP:CZ3	9:AD:61:PRO:HB3	2.56	0.41
8:AE:3:GLU:OE1	8:AE:64:ARG:NE	2.54	0.41
8:AE:231:ILE:O	8:AE:235:VAL:HG23	2.21	0.41
8:AG:108:TYR:HB2	8:AG:411:GLU:OE2	2.21	0.41
8:AI:251:ASP:OD1	8:AI:254:GLU:HB2	2.21	0.41
8:AI:298:PRO:HG3	8:AI:308:ARG:HE	1.85	0.41
9:AJ:12:CYS:SG	9:AJ:138:SER:OG	2.67	0.41
9:AJ:72:THR:O	9:AJ:76:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:102:ALA:O	9:AL:106:TYR:HB2	2.21	0.41
9:AL:190:HIS:CE1	9:AL:414:ASN:HD22	2.39	0.41
8:AM:166:LYS:N	8:AM:199:ASP:OD2	2.37	0.41
9:AN:189:VAL:HA	9:AN:192:LEU:HB2	2.02	0.41
9:AN:305:PRO:HA	9:AN:373:ALA:HB2	2.03	0.41
10:B:198:GLN:O	10:B:202:LYS:HG3	2.21	0.41
10:B:203:GLN:O	10:B:207:GLU:HG2	2.21	0.41
11:B1:135:GLU:H	11:B1:135:GLU:HG3	1.66	0.41
11:B1:354:GLN:O	11:B1:358:GLN:HG3	2.21	0.41
11:B1:369:HIS:CD2	11:B1:369:HIS:O	2.74	0.41
11:B3:132:PRO:HA	11:B3:135:GLU:CD	2.46	0.41
11:B3:151:LEU:HD12	11:B3:151:LEU:HA	1.86	0.41
11:B3:180:MET:HE3	28:Q3:132:PRO:HA	2.02	0.41
11:B4:199:ILE:HB	11:B5:312:LYS:HG2	2.03	0.41
9:BB:1:MET:HB2	9:BB:2:ARG:H	1.70	0.41
9:BB:324:LYS:NZ	8:BC:220:GLU:O	2.33	0.41
8:BC:172:TYR:HE1	8:BC:391:LEU:HD22	1.86	0.41
8:BC:332:ILE:HD13	8:BC:332:ILE:HA	1.90	0.41
8:BE:69:ASP:O	8:BE:94:THR:HA	2.21	0.41
8:BE:70:LEU:HD13	8:BE:70:LEU:HA	1.89	0.41
9:BF:7:LEU:HD13	9:BF:64:VAL:HB	2.03	0.41
9:BF:32:PRO:HG3	9:BF:81:PHE:CE1	2.56	0.41
9:BF:147:MET:O	9:BF:151:LEU:N	2.39	0.41
9:BF:183:TYR:CZ	9:BF:388:MET:HB3	2.55	0.41
9:BH:267:MET:HG2	9:BH:301:ALA:CB	2.51	0.41
9:BH:327:ASP:OD1	8:BI:177:VAL:HB	2.21	0.41
8:BI:280:LYS:O	8:BI:284:GLU:CB	2.68	0.41
9:BJ:293:MET:HE1	9:BJ:315:ALA:HB1	2.02	0.41
9:BJ:314:ALA:HB3	9:BJ:368:ILE:HG23	2.03	0.41
8:BK:157:LEU:HD23	8:BK:157:LEU:HA	1.90	0.41
9:BL:207:LEU:HB3	9:BL:225:LEU:HD22	2.03	0.41
9:BN:56:GLY:C	17:N:314:ARG:HH12	2.28	0.41
8:BO:124:LYS:NZ	8:CO:290:GLU:OE1	2.37	0.41
12:C0:156:TRP:HB3	12:C0:261:LYS:HE3	2.03	0.41
12:C1:474:MET:HE3	12:C1:474:MET:HB3	1.93	0.41
9:CB:198:GLU:HB2	9:CB:266:PHE:HE2	1.85	0.41
8:CE:231:ILE:O	8:CE:235:VAL:HG23	2.21	0.41
8:CE:395:PHE:CD2	8:CE:422:ARG:HD3	2.56	0.41
9:CF:172:SER:HB2	9:CF:203:ASP:OD1	2.21	0.41
9:CF:309:ARG:N	9:CF:372:THR:OG1	2.52	0.41
8:CG:265:ILE:HG23	8:CG:432:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:132:LEU:HG	8:CI:164:LYS:HD2	2.02	0.41
9:CJ:215:LEU:HD12	25:V:313:LEU:HD11	2.03	0.41
8:CK:204:VAL:HG21	8:CK:231:ILE:HD11	2.03	0.41
8:CK:330:ALA:O	8:CK:334:THR:OG1	2.32	0.41
9:CL:103:LYS:NZ	9:CL:401:GLU:OE1	2.53	0.41
9:CL:323:MET:HE2	8:CM:224:TYR:CE2	2.56	0.41
9:CL:344:TRP:CD2	8:CM:401:LYS:HD2	2.56	0.41
8:CM:141:PHE:O	8:CM:147:SER:OG	2.38	0.41
8:CM:240:ALA:HA	8:CM:243:ARG:HG3	2.02	0.41
9:CN:267:MET:HE1	9:CN:367:PHE:CE2	2.54	0.41
9:CN:324:LYS:HD2	8:CO:214:ARG:HH22	1.86	0.41
8:CO:88:HIS:HE2	8:DO:284:GLU:HG2	1.85	0.41
8:CO:234:ILE:HD11	8:CO:272:TYR:HB2	2.01	0.41
9:CP:61:PRO:HD3	9:CP:84:ILE:HG13	2.03	0.41
9:CP:136:THR:HG22	9:CP:167:PHE:HB2	2.03	0.41
9:CP:167:PHE:HB3	9:CP:202:ILE:HD11	2.02	0.41
9:CP:267:MET:HE1	9:CP:299:MET:HB2	2.01	0.41
8:CQ:2:ARG:HB3	8:CQ:242:LEU:HD23	2.02	0.41
8:CQ:67:PHE:HB2	8:CQ:92:LEU:HD13	2.02	0.41
14:D3:365:ASN:ND2	12:S6:62:TYR:OH	2.53	0.41
9:DB:233:MET:O	9:DB:236:VAL:HG12	2.20	0.41
9:DB:356:ILE:HD13	9:DB:356:ILE:HA	1.91	0.41
8:DC:319:TYR:HB3	8:DC:323:VAL:HG21	2.01	0.41
8:DE:47:ASP:OD1	8:DE:47:ASP:N	2.54	0.41
8:DE:102:ASN:HB3	8:DE:105:ARG:HB2	2.02	0.41
8:DE:313:MET:SD	8:DE:313:MET:N	2.94	0.41
8:DE:345:ASP:OD2	8:DE:439:SER:N	2.44	0.41
9:DF:77:ARG:HA	9:DF:77:ARG:HD3	1.90	0.41
9:DF:272:PRO:HG3	9:DF:364:SER:HA	2.03	0.41
9:DH:66:VAL:HA	9:DH:91:VAL:O	2.21	0.41
9:DH:309:ARG:HG3	9:DH:426:GLN:HG3	2.01	0.41
8:DI:167:LEU:HD21	8:DI:256:GLN:HE21	1.85	0.41
9:DJ:163:ILE:H	9:DJ:163:ILE:HG13	1.71	0.41
9:DL:50:TYR:CE2	9:DL:241:ARG:HD3	2.56	0.41
9:DL:88:ASP:N	9:DL:88:ASP:OD1	2.53	0.41
9:DL:374:ILE:HD12	9:DL:374:ILE:HA	1.97	0.41
8:DM:88:HIS:CE1	8:DM:90:GLU:HB3	2.55	0.41
8:DM:188:ILE:O	8:DM:191:THR:OG1	2.36	0.41
8:DM:246:GLY:HA2	8:DM:357:TYR:CD1	2.55	0.41
8:DM:406:HIS:HA	8:DM:409:VAL:HG22	2.03	0.41
9:DN:344:TRP:HZ3	8:DO:403:ALA:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DN:346:PRO:HD2	8:DO:398:MET:CE	2.51	0.41
8:DO:260:VAL:O	9:DP:397:TRP:NE1	2.48	0.41
9:DP:21:TRP:CD2	9:DP:24:ILE:HD11	2.55	0.41
9:DP:39:ASP:O	17:O7:51:SER:HB2	2.21	0.41
9:DP:363:MET:HE2	9:DP:363:MET:HA	2.03	0.41
8:DQ:132:LEU:HD21	8:DQ:135:PHE:CE1	2.56	0.41
8:DQ:191:THR:HA	8:DQ:194:THR:HG22	2.03	0.41
8:DQ:201:ALA:HB1	8:DQ:203:MET:SD	2.61	0.41
9:EB:193:VAL:HA	9:EB:264:HIS:CE1	2.54	0.41
8:EC:35:GLN:NE2	8:FC:282:TYR:OH	2.54	0.41
8:EC:105:ARG:NH1	8:EC:411:GLU:OE1	2.52	0.41
8:EC:312:TYR:HE2	8:EC:341:ILE:HD12	1.86	0.41
8:EC:422:ARG:NH1	8:EC:426:ALA:HB2	2.36	0.41
9:EF:407:GLU:HA	9:EF:410:GLU:HG2	2.03	0.41
9:EH:407:GLU:HA	9:EH:410:GLU:HG2	2.03	0.41
8:EI:75:VAL:HG12	8:EI:79:ARG:HE	1.85	0.41
8:EI:265:ILE:HG12	8:EI:432:TYR:HE1	1.86	0.41
8:EK:311:LYS:HD3	8:EK:344:VAL:HG12	2.02	0.41
8:EK:335:ILE:HD13	8:EK:335:ILE:HA	1.98	0.41
9:EL:289:LEU:HD23	9:EL:289:LEU:HA	1.89	0.41
8:EM:321:GLY:HA3	8:EM:373:ARG:HA	2.03	0.41
9:EN:21:TRP:CE3	9:EN:24:ILE:HD11	2.56	0.41
9:EN:372:THR:HA	9:EN:422:TYR:CE1	2.48	0.41
8:EO:223:THR:OG1	8:EO:224:TYR:N	2.54	0.41
8:EO:287:SER:OG	8:EO:290:GLU:OE1	2.24	0.41
8:EO:317:MET:HE3	8:EO:317:MET:HB3	1.86	0.41
15:F:26:MET:SD	6:N1:65:GLN:NE2	2.93	0.41
15:F:248:GLU:OE1	15:F:248:GLU:N	2.54	0.41
8:FA:113:GLU:OE1	8:FA:113:GLU:N	2.50	0.41
8:FA:304:LYS:HA	8:FA:304:LYS:HD2	1.83	0.41
8:FA:339:ARG:O	8:FA:339:ARG:NE	2.54	0.41
9:FB:31:ASP:OD2	9:FB:35:THR:OG1	2.39	0.41
9:FB:183:TYR:O	9:FB:187:LEU:HD12	2.21	0.41
9:FB:258:VAL:HB	8:FC:407:TRP:HZ2	1.86	0.41
9:FB:327:ASP:HA	9:FB:330:MET:HE2	2.03	0.41
8:FC:311:LYS:HD2	8:FC:436:GLY:HA2	2.03	0.41
8:FC:388:TRP:HB3	8:FC:425:LEU:HD21	2.03	0.41
9:FD:12:CYS:O	9:FD:16:ILE:HG12	2.20	0.41
9:FD:137:HIS:HB2	9:FD:144:GLY:HA3	2.03	0.41
9:FD:166:THR:HG23	9:FD:199:THR:HG23	2.02	0.41
8:FE:263:PRO:HG3	9:FF:396:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FE:302:MET:SD	8:FE:303:VAL:HG23	2.61	0.41
8:FE:319:TYR:HE2	8:FE:328:VAL:HG13	1.86	0.41
9:FF:122:LYS:HG3	9:GF:291:GLN:OE1	2.21	0.41
8:FG:250:VAL:HG13	8:FG:254:GLU:HB2	2.02	0.41
8:FG:258:ASN:CG	9:FH:179:VAL:HG12	2.46	0.41
9:FH:375:GLN:NE2	9:FH:423:GLN:OE1	2.45	0.41
8:FI:188:ILE:HG13	8:FI:395:PHE:CD1	2.56	0.41
8:FI:252:LEU:H	8:FI:252:LEU:HD12	1.86	0.41
9:FJ:177:ASP:OD2	52:FJ:502:GDP:O3'	2.31	0.41
9:FJ:318:ARG:HB2	9:FJ:318:ARG:CZ	2.50	0.41
9:FL:363:MET:HA	9:FL:363:MET:HE3	2.01	0.41
8:FM:271:THR:HA	8:FM:302:MET:CE	2.50	0.41
9:FN:255:VAL:HA	8:FO:407:TRP:CE2	2.56	0.41
8:FO:150:ALA:O	8:FO:154:MET:HG2	2.21	0.41
8:GC:147:SER:OG	8:GC:190:THR:OG1	2.31	0.41
8:GC:171:ILE:HD12	8:GC:206:ASN:ND2	2.36	0.41
8:GC:234:ILE:O	8:GC:238:ILE:HG22	2.21	0.41
8:GC:251:ASP:OD2	8:GC:253:THR:N	2.53	0.41
9:GD:323:MET:HE1	8:GE:224:TYR:CD2	2.56	0.41
8:GE:186:ASN:O	8:GE:190:THR:HG22	2.19	0.41
9:GF:77:ARG:HB3	49:y:115:PHE:CD1	2.55	0.41
9:GF:178:THR:O	9:GF:181:GLU:HB2	2.21	0.41
9:GF:210:ILE:O	9:GF:214:THR:N	2.52	0.41
9:GF:323:MET:O	9:GF:327:ASP:N	2.33	0.41
8:GG:15:GLN:HB3	8:GG:228:ASN:ND2	2.34	0.41
8:GG:119:LEU:HA	8:GG:119:LEU:HD23	1.93	0.41
8:GG:329:ASN:HA	8:GG:332:ILE:HG12	2.02	0.41
9:GH:74:ASP:O	9:GH:78:SER:OG	2.28	0.41
8:GI:93:ILE:HG21	8:GI:118:VAL:HG12	2.03	0.41
9:GJ:12:CYS:SG	9:GJ:138:SER:HB3	2.60	0.41
9:GJ:117:LEU:HA	9:GJ:120:VAL:HG12	2.03	0.41
9:GL:83:GLN:H	9:GL:83:GLN:CD	2.28	0.41
9:GL:103:LYS:HE2	9:GL:103:LYS:HB3	1.84	0.41
9:GL:276:ARG:CZ	26:P2:8:LEU:HD23	2.51	0.41
8:GM:21:TRP:CE2	8:GM:63:PRO:HB3	2.56	0.41
8:GM:69:ASP:OD1	8:GM:70:LEU:N	2.54	0.41
8:GM:195:LEU:HD11	8:GM:264:ARG:NH2	2.36	0.41
8:GM:346:TRP:HZ2	8:GM:435:VAL:HG13	1.85	0.41
8:GM:364:PRO:HB3	26:P2:101:TRP:HZ2	1.85	0.41
9:GN:5:VAL:HB	9:GN:133:PHE:CD1	2.55	0.41
9:GN:69:GLU:CD	9:GN:71:GLY:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GN:211:CYS:SG	9:GN:220:PRO:HB3	2.61	0.41
9:GN:383:GLU:HB2	9:GN:384:GLN:NE2	2.36	0.41
17:H:288:PHE:O	17:H:289:ILE:HD13	2.20	0.41
8:HA:120:ASP:O	8:HA:124:LYS:HG3	2.19	0.41
8:HA:191:THR:HG21	8:HA:425:LEU:HD11	2.02	0.41
8:HA:253:THR:O	8:HA:257:THR:OG1	2.34	0.41
9:HB:55:THR:OG1	9:IB:284:LEU:HD22	2.21	0.41
9:HB:198:GLU:HB2	9:HB:266:PHE:CE2	2.56	0.41
9:HB:198:GLU:HG2	9:HB:200:TYR:HE1	1.85	0.41
9:HB:245:GLN:HE21	9:HB:323:MET:HE2	1.85	0.41
9:HB:270:PHE:CD1	9:HB:273:LEU:HD21	2.56	0.41
9:HD:103:LYS:HA	9:HD:107:THR:HG23	2.03	0.41
9:HD:334:GLN:HA	9:HD:341:PHE:CE2	2.56	0.41
8:HE:390:ARG:HG2	8:HE:391:LEU:N	2.36	0.41
9:HF:28:HIS:CE1	9:HF:241:ARG:HD2	2.56	0.41
9:HF:68:LEU:HD23	9:HF:68:LEU:HA	1.81	0.41
8:HG:151:SER:HA	8:HG:193:THR:HG21	2.03	0.41
8:HG:164:LYS:HD2	8:HG:164:LYS:HA	1.77	0.41
9:HH:112:LEU:HD23	9:HH:112:LEU:HA	1.88	0.41
8:HI:372:GLN:OE1	8:HI:372:GLN:N	2.52	0.41
9:HJ:178:THR:O	9:HJ:181:GLU:HB3	2.21	0.41
9:HJ:211:CYS:HB2	9:HJ:217:LEU:HD23	2.02	0.41
9:HJ:256:ASN:HD21	8:HK:182:VAL:H	1.68	0.41
8:HK:194:THR:O	8:HK:266:HIS:NE2	2.34	0.41
8:HK:209:ILE:HB	8:HK:227:LEU:HD23	2.03	0.41
8:HK:286:LEU:O	8:HK:373:ARG:NH2	2.44	0.41
9:HL:313:VAL:HG13	9:HL:349:VAL:HG23	2.01	0.41
9:HL:323:MET:HA	9:HL:326:VAL:HB	2.03	0.41
9:HL:326:VAL:O	9:HL:330:MET:HG2	2.21	0.41
9:HL:381:ILE:HD13	9:HL:381:ILE:HA	1.91	0.41
8:HM:350:GLY:HA2	9:HN:179:VAL:HG13	2.02	0.41
9:HN:205:GLU:HA	9:HN:208:TYR:CD2	2.56	0.41
9:HN:322:SER:HB2	8:HO:221:ARG:HG2	2.02	0.41
9:HN:342:VAL:HB	9:HN:344:TRP:CD1	2.56	0.41
8:HO:4:CYS:C	8:HO:5:ILE:HD13	2.46	0.41
8:HO:60:LYS:NZ	8:IO:283:HIS:HD2	2.19	0.41
8:HO:154:MET:HE1	8:HO:166:LYS:HD2	2.02	0.41
8:HO:265:ILE:HG13	8:HO:432:TYR:CE2	2.55	0.41
9:HP:12:CYS:O	9:HP:16:ILE:HG12	2.20	0.41
9:HP:197:ASP:N	9:HP:197:ASP:OD1	2.54	0.41
9:HP:258:VAL:HG23	9:HP:263:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HP:324:LYS:HE2	9:HP:324:LYS:HB3	1.81	0.41
8:IA:317:MET:HG3	8:IA:377:MET:CE	2.49	0.41
9:IB:11:GLN:O	9:IB:15:GLN:HG2	2.21	0.41
9:IB:325:GLU:HB3	9:IB:329:GLN:NE2	2.35	0.41
9:IB:325:GLU:O	9:IB:329:GLN:NE2	2.54	0.41
8:IC:175:PRO:HG3	8:IC:304:LYS:HG2	2.02	0.41
8:IC:188:ILE:HD13	8:IC:425:LEU:HD13	2.03	0.41
8:IC:260:VAL:HB	9:ID:397:TRP:CH2	2.55	0.41
9:ID:242:PHE:CB	9:ID:356:ILE:HD13	2.46	0.41
9:ID:294:PHE:HB3	36:Y1:238:PHE:HB3	2.03	0.41
9:ID:324:LYS:CD	8:IE:222:PRO:HD2	2.49	0.41
8:IE:141:PHE:HB3	8:IE:187:SER:OG	2.20	0.41
9:IF:54:ALA:HB3	9:IF:58:LYS:HB3	2.03	0.41
9:IF:293:MET:HG3	9:IF:367:PHE:HB2	2.03	0.41
8:II:4:CYS:HA	8:II:134:GLY:O	2.20	0.41
8:IM:56:THR:CG2	8:IM:60:LYS:HB2	2.51	0.41
8:IM:147:SER:HB3	8:IM:190:THR:OG1	2.21	0.41
8:IM:312:TYR:N	8:IM:342:GLN:O	2.48	0.41
8:IM:393:HIS:O	8:IM:397:LEU:HD22	2.21	0.41
9:IN:20:PHE:HB2	9:IN:233:MET:SD	2.61	0.41
9:IN:136:THR:HG22	9:IN:167:PHE:HD2	1.86	0.41
9:IN:297:LYS:HA	9:IN:297:LYS:HD3	1.86	0.41
8:IO:118:VAL:O	8:IO:122:ILE:HG13	2.20	0.41
8:IO:200:CYS:HA	8:IO:266:HIS:HB2	2.03	0.41
8:IO:278:ALA:HA	8:IO:369:ALA:HB2	2.02	0.41
9:IP:54:ALA:HB1	8:JQ:283:HIS:HA	2.01	0.41
17:J:313:ASP:O	17:J:317:HIS:ND1	2.54	0.41
19:J1:223:LEU:HD13	9:KB:160:PRO:HB3	2.03	0.41
19:J2:36:LEU:HD21	19:J2:58:PHE:HB2	2.01	0.41
19:J3:189:GLN:H	19:J3:189:GLN:HG3	1.72	0.41
19:J3:235:LEU:HD13	8:LK:393:HIS:ND1	2.36	0.41
19:J4:115:GLU:HB2	19:J4:118:ARG:HH22	1.86	0.41
19:J5:92:LEU:O	9:OP:276:ARG:NH1	2.42	0.41
19:J5:118:ARG:NH2	19:J5:142:ARG:O	2.54	0.41
9:JB:72:THR:O	9:JB:75:SER:OG	2.36	0.41
8:JC:172:TYR:OH	8:JC:391:LEU:HD22	2.21	0.41
8:JC:184:PRO:HG3	8:JC:394:LYS:HE3	2.02	0.41
8:JC:222:PRO:HB3	8:JC:226:ASN:HD22	1.86	0.41
9:JD:68:LEU:HD23	9:JD:143:THR:HG23	2.03	0.41
9:JD:224:ASP:OD2	9:JD:225:LEU:N	2.54	0.41
9:JF:372:THR:HA	9:JF:422:TYR:CE1	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JG:175:PRO:HG3	8:JG:304:LYS:HG3	2.03	0.41
8:JG:367:ASP:OD1	8:JG:367:ASP:N	2.52	0.41
9:JH:174:LYS:HG2	9:JH:175:VAL:HG23	2.02	0.41
9:JH:182:PRO:HA	9:JH:185:ALA:HB3	2.02	0.41
9:JH:191:GLN:OE1	9:JH:191:GLN:N	2.54	0.41
9:JJ:183:TYR:O	9:JJ:187:LEU:HG	2.21	0.41
9:JJ:318:ARG:HD3	9:JJ:358:PRO:HD3	2.03	0.41
8:JK:3:GLU:HG2	8:JK:64:ARG:NH1	2.36	0.41
9:JL:323:MET:HE2	8:JM:224:TYR:CD2	2.56	0.41
9:JL:381:ILE:O	9:JL:385:PHE:N	2.52	0.41
8:JM:21:TRP:CZ3	8:JM:63:PRO:HB3	2.56	0.41
8:JM:339:ARG:NH1	8:JM:340:THR:OG1	2.54	0.41
9:JN:221:THR:N	9:JN:224:ASP:OD2	2.53	0.41
8:JO:2:ARG:H	8:JO:2:ARG:HG3	1.63	0.41
8:JO:426:ALA:O	8:JO:429:GLU:HG2	2.21	0.41
9:JP:174:LYS:HB2	9:JP:174:LYS:HE2	1.79	0.41
8:JQ:223:THR:HG23	8:JQ:225:THR:H	1.86	0.41
8:JQ:311:LYS:HA	8:JQ:342:GLN:NE2	2.30	0.41
8:JQ:433:GLU:O	8:JQ:437:VAL:HG23	2.21	0.41
20:K1:117:TYR:HB3	20:K1:122:LEU:HD23	2.03	0.41
13:K3:432:LEU:HD13	23:P:34:ARG:HH21	1.86	0.41
8:KA:107:HIS:ND1	8:KA:148:GLY:O	2.54	0.41
9:KD:344:TRP:H	9:KD:344:TRP:CD1	2.38	0.41
8:KE:70:LEU:HB3	8:KE:98:ASP:HA	2.02	0.41
8:KE:90:GLU:OE2	8:KE:90:GLU:N	2.54	0.41
9:KF:28:HIS:NE2	9:KF:241:ARG:HD2	2.36	0.41
8:KG:137:ILE:HG21	8:KG:154:MET:HE3	2.03	0.41
8:KG:203:MET:SD	8:KG:384:ILE:HD11	2.60	0.41
8:KG:385:ALA:HA	8:KG:388:TRP:CD1	2.55	0.41
9:KH:151:LEU:O	9:KH:155:ILE:HG12	2.21	0.41
9:KH:210:ILE:HD12	9:KH:210:ILE:HA	1.85	0.41
9:KH:375:GLN:NE2	9:KH:423:GLN:HB2	2.36	0.41
8:KI:67:PHE:HB2	8:KI:92:LEU:HD22	2.01	0.41
8:KI:70:LEU:HD21	8:KI:114:ILE:HG21	2.01	0.41
9:KL:114:ASP:OD1	9:KL:115:SER:N	2.53	0.41
9:KL:343:GLU:OE2	9:KL:343:GLU:N	2.38	0.41
8:KM:163:LYS:HD3	41:b4:389:ALA:CB	2.50	0.41
8:KM:415:GLU:HG2	8:KM:418:PHE:HD2	1.86	0.41
8:KO:430:LYS:HA	8:KO:430:LYS:HD3	1.92	0.41
9:KP:135:LEU:HD23	9:KP:152:ILE:HD11	2.03	0.41
9:KP:403:MET:HB3	41:b5:462:ARG:CZ	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LD:70:PRO:HB3	9:LD:92:PHE:CD2	2.55	0.41
9:LD:164:MET:HE3	9:LD:164:MET:HB3	1.92	0.41
9:LF:68:LEU:HD23	9:LF:112:LEU:HD22	2.02	0.41
9:LF:187:LEU:HD11	9:LF:408:PHE:CD1	2.56	0.41
9:LF:323:MET:HG3	8:LG:224:TYR:CD2	2.55	0.41
8:LG:125:LEU:HD23	8:LG:125:LEU:HA	1.84	0.41
8:LG:412:GLY:HA2	43:i:118:ALA:HB1	2.03	0.41
9:LH:156:ARG:HA	9:LH:156:ARG:HD2	1.90	0.41
8:LI:18:ASN:HD21	8:LI:78:VAL:HG22	1.86	0.41
8:LI:75:VAL:HG12	8:LI:79:ARG:HE	1.86	0.41
8:LI:283:HIS:HB2	8:LI:284:GLU:OE1	2.21	0.41
8:LI:284:GLU:OE1	8:LI:284:GLU:N	2.53	0.41
8:LI:359:PRO:HB2	8:LI:370:LYS:NZ	2.36	0.41
9:LJ:151:LEU:O	9:LJ:155:ILE:HG23	2.21	0.41
8:LK:126:ALA:O	8:LK:129:CYS:HB2	2.21	0.41
8:LK:346:TRP:HH2	8:LK:435:VAL:HG13	1.86	0.41
9:LL:282:ARG:HD3	9:LL:282:ARG:HA	1.88	0.41
8:LM:138:PHE:HA	8:LM:169:PHE:O	2.21	0.41
9:LN:203:ASP:OD2	9:LN:206:ALA:N	2.54	0.41
9:LN:337:ASN:HB3	9:LN:340:TYR:CD1	2.55	0.41
8:LO:2:ARG:H	8:LO:2:ARG:HG3	1.58	0.41
8:LO:431:ASP:O	8:LO:435:VAL:HG23	2.21	0.41
17:M:201:PHE:H	17:M:204:LEU:HD21	1.85	0.41
8:MA:151:SER:HA	8:MA:193:THR:HG21	2.02	0.41
8:MA:345:ASP:OD1	8:MA:345:ASP:N	2.53	0.41
8:MA:362:VAL:HG22	8:MA:370:LYS:NZ	2.36	0.41
9:MB:64:VAL:HG21	9:MB:120:VAL:HG12	2.03	0.41
9:MB:164:MET:HE3	9:MB:164:MET:HB3	1.77	0.41
8:MC:188:ILE:HG13	8:MC:395:PHE:CG	2.56	0.41
9:MD:189:VAL:O	9:MD:193:VAL:HG13	2.21	0.41
8:ME:422:ARG:HA	8:ME:422:ARG:HD2	1.69	0.41
9:MF:21:TRP:CE3	9:MF:24:ILE:HD11	2.56	0.41
9:MH:8:GLN:HB3	9:MH:65:LEU:HA	2.02	0.41
9:MJ:248:ALA:HA	9:MJ:252:LYS:HD2	2.03	0.41
9:MJ:262:ARG:HD3	9:MJ:421:GLU:OE1	2.21	0.41
9:MJ:405:GLU:OE1	9:MJ:405:GLU:N	2.52	0.41
8:MK:280:LYS:HB2	8:MK:280:LYS:HE2	1.79	0.41
9:ML:109:GLY:HA3	9:ML:147:MET:HG3	2.02	0.41
9:ML:219:THR:O	9:ML:219:THR:OG1	2.36	0.41
9:MN:211:CYS:SG	9:MN:212:PHE:N	2.94	0.41
9:MP:86:ARG:NH2	9:MP:87:PRO:HD3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:MP:237:THR:O	9:MP:240:LEU:HG	2.21	0.41
9:MP:241:ARG:HD2	9:MP:242:PHE:CE1	2.55	0.41
15:N2:47:LYS:HE2	15:N2:47:LYS:HB2	1.85	0.41
8:NA:66:VAL:HG22	8:NA:68:VAL:HG13	2.03	0.41
8:NA:88:HIS:CD2	8:OA:283:HIS:HB3	2.56	0.41
9:NB:68:LEU:HB3	9:NB:96:GLY:HA2	2.03	0.41
9:NB:197:ASP:N	9:NB:197:ASP:OD1	2.51	0.41
9:NB:274:THR:HB	9:NB:278:SER:HB2	2.02	0.41
9:ND:15:GLN:O	9:ND:19:LYS:HD3	2.20	0.41
9:ND:111:GLU:N	9:ND:111:GLU:OE1	2.53	0.41
9:ND:122:LYS:HE3	9:ND:122:LYS:HB3	1.95	0.41
9:ND:363:MET:SD	9:ND:364:SER:N	2.94	0.41
8:NE:287:SER:C	8:NE:373:ARG:HH22	2.29	0.41
9:NF:143:THR:HG1	52:NF:502:GDP:PB	2.40	0.41
8:NG:311:LYS:HE3	8:NG:311:LYS:HB3	1.94	0.41
8:NG:326:LYS:HD3	8:NG:326:LYS:HA	1.81	0.41
9:NH:326:VAL:O	9:NH:330:MET:HG2	2.21	0.41
8:NI:75:VAL:HG23	8:NI:79:ARG:HH21	1.85	0.41
8:NI:104:ALA:HB2	8:NI:413:MET:HE3	2.02	0.41
8:NI:257:THR:CA	9:NJ:397:TRP:CZ3	2.99	0.41
9:NJ:6:HIS:CE1	9:NJ:8:GLN:HB2	2.55	0.41
8:NK:229:ARG:NH2	8:NK:368:LEU:HB2	2.36	0.41
8:NK:287:SER:O	8:NK:291:ILE:HG23	2.21	0.41
8:NK:392:ASP:O	8:NK:422:ARG:NH2	2.53	0.41
9:NL:266:PHE:HB3	9:NL:368:ILE:HG23	2.02	0.41
8:NM:47:ASP:OD1	8:NM:47:ASP:N	2.54	0.41
8:NM:52:PHE:CZ	8:NM:239:THR:HG21	2.56	0.41
8:NM:440:VAL:O	8:NM:441:GLU:HG2	2.20	0.41
9:NN:206:ALA:O	9:NN:210:ILE:HG12	2.20	0.41
8:NO:312:TYR:HB2	8:NO:343:PHE:CD1	2.56	0.41
8:NO:395:PHE:HE2	8:NO:422:ARG:HB2	1.85	0.41
9:NP:267:MET:HE1	9:NP:373:ALA:HB3	2.02	0.41
9:NP:416:ASN:HA	9:NP:419:VAL:HG22	2.02	0.41
24:O1:28:LEU:HD11	24:O1:103:LEU:HD22	2.03	0.41
24:O1:121:MET:HE3	24:O1:156:GLU:OE1	2.20	0.41
24:O1:168:ILE:HD12	24:O1:168:ILE:HA	1.86	0.41
24:O3:176:PRO:HG2	24:O3:179:TYR:CD2	2.51	0.41
25:O5:265:HIS:O	25:O5:273:VAL:HA	2.21	0.41
25:O6:23:THR:HG22	25:O6:24:ALA:N	2.33	0.41
17:O7:288:PHE:CE2	17:O7:290:PRO:HG3	2.56	0.41
8:OA:152:LEU:HD12	8:OA:152:LEU:HA	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OA:316:CYS:HB3	8:OA:378:LEU:HB2	2.02	0.41
9:OB:138:SER:HA	9:OB:169:VAL:HB	2.02	0.41
9:OB:222:TYR:CE2	52:OB:502:GDP:C5	3.09	0.41
8:OC:207:GLU:HA	8:OC:210:TYR:CD2	2.56	0.41
9:OD:22:GLU:HG3	9:OD:81:PHE:HB2	2.03	0.41
9:OD:261:PRO:HG3	8:OE:406:HIS:CD2	2.56	0.41
8:OE:129:CYS:SG	8:OE:132:LEU:HB2	2.60	0.41
8:OE:276:ILE:HG23	8:OE:280:LYS:HB3	2.02	0.41
8:OE:288:VAL:HA	8:OE:291:ILE:HG12	2.03	0.41
8:OE:313:MET:HG3	8:OE:344:VAL:HG11	2.02	0.41
8:OE:371:VAL:HG12	8:OE:373:ARG:H	1.86	0.41
9:OF:63:ALA:HB3	9:OF:85:PHE:CE1	2.51	0.41
9:OF:163:ILE:H	9:OF:163:ILE:HG12	1.65	0.41
9:OF:207:LEU:HB3	9:OF:225:LEU:HG	2.01	0.41
9:OF:222:TYR:O	9:OF:226:ASN:N	2.49	0.41
8:OG:7:ILE:O	8:OG:7:ILE:HG22	2.21	0.41
8:OG:122:ILE:HD13	8:OG:122:ILE:HA	1.81	0.41
8:OG:328:VAL:O	8:OG:332:ILE:HG13	2.21	0.41
9:OH:253:LEU:O	9:OH:256:ASN:N	2.54	0.41
8:OI:6:SER:HB3	8:OI:8:HIS:CD2	2.55	0.41
8:OI:206:ASN:OD1	50:OI:501:GTP:N2	2.54	0.41
8:OI:288:VAL:HA	8:OI:291:ILE:HG12	2.03	0.41
9:OJ:20:PHE:HE1	9:OJ:229:VAL:HG23	1.86	0.41
9:OJ:290:THR:HG23	36:Y4:54:ARG:NH2	2.36	0.41
9:OJ:292:GLN:HA	9:OJ:295:ASP:OD2	2.21	0.41
9:OL:198:GLU:HB2	9:OL:266:PHE:CE2	2.55	0.41
9:OL:213:ARG:CZ	36:Y5:242:HIS:HD1	2.33	0.41
8:OM:167:LEU:HD12	8:OM:202:PHE:HZ	1.86	0.41
8:OM:326:LYS:HG3	9:ON:220:PRO:HD2	2.03	0.41
9:ON:19:LYS:HA	9:ON:22:GLU:OE1	2.21	0.41
9:ON:68:LEU:HD23	9:ON:68:LEU:HA	1.86	0.41
8:OO:79:ARG:HH21	8:OO:94:THR:HG23	1.86	0.41
8:OO:111:GLY:O	8:OO:115:VAL:HG23	2.21	0.41
9:OP:259:PRO:HD2	9:OP:263:LEU:HD11	2.03	0.41
9:OP:379:LYS:O	9:OP:383:GLU:HG2	2.21	0.41
23:P:13:LEU:O	23:P:17:GLU:HG3	2.21	0.41
23:P:183:LEU:HD12	23:P:183:LEU:HA	1.86	0.41
23:P:241:LEU:HD23	23:P:241:LEU:HA	1.75	0.41
27:P5:137:GLU:OE1	27:P5:148:LYS:NZ	2.54	0.41
17:P9:41:GLN:O	17:P9:45:ASP:CB	2.69	0.41
9:PD:266:PHE:HE1	9:PD:370:ASN:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:PD:421:GLU:H	9:PD:421:GLU:HG3	1.66	0.41
8:PE:326:LYS:NZ	9:PF:221:THR:O	2.53	0.41
9:PF:21:TRP:CE3	9:PF:24:ILE:HD11	2.56	0.41
9:PF:232:THR:HG21	9:PF:268:PRO:HB2	2.03	0.41
9:PF:238:THR:HG23	9:PF:241:ARG:HH21	1.86	0.41
9:PF:324:LYS:N	8:PG:221:ARG:NH1	2.69	0.41
8:PG:2:ARG:H	8:PG:2:ARG:HG3	1.65	0.41
9:PH:139:LEU:HD21	9:PH:168:SER:HB2	2.03	0.41
8:PI:172:TYR:HB2	8:PI:203:MET:HB2	2.03	0.41
8:PK:111:GLY:O	8:PK:115:VAL:HG23	2.20	0.41
8:PK:155:GLU:HB2	8:PK:156:ARG:NH1	2.36	0.41
9:PL:87:PRO:HA	9:PL:90:PHE:HD1	1.85	0.41
8:PM:155:GLU:HA	8:PM:197:HIS:CE1	2.56	0.41
8:PM:298:PRO:HA	8:PM:301:GLN:HG2	2.02	0.41
8:PO:141:PHE:HB2	8:PO:173:PRO:HD3	2.03	0.41
9:QB:170:VAL:N	9:QB:202:ILE:O	2.50	0.41
8:QC:280:LYS:HA	8:QC:283:HIS:CE1	2.56	0.41
8:QC:301:GLN:HB3	8:QC:303:VAL:HG22	2.02	0.41
8:QC:319:TYR:CG	8:QC:323:VAL:HG21	2.56	0.41
9:QD:135:LEU:HD12	9:QD:136:THR:N	2.35	0.41
9:QD:324:LYS:O	9:QD:328:GLU:N	2.47	0.41
9:QF:8:GLN:HB3	9:QF:65:LEU:HA	2.03	0.41
9:QF:21:TRP:HE1	9:QF:63:ALA:HB2	1.85	0.41
9:QF:261:PRO:HG3	8:QG:406:HIS:CD2	2.55	0.41
9:QH:310:TYR:HD1	9:QH:371:SER:HB2	1.86	0.41
8:QI:52:PHE:CE2	8:QI:243:ARG:HD3	2.56	0.41
9:QJ:81:PHE:HB3	9:QJ:84:ILE:HD11	2.03	0.41
9:QJ:134:GLN:OE1	9:QJ:165:ASN:HB2	2.20	0.41
9:QJ:403:MET:N	9:QJ:403:MET:SD	2.93	0.41
8:QK:195:LEU:HD23	8:QK:195:LEU:HA	1.85	0.41
9:QL:299:MET:HE1	9:QL:301:ALA:HB3	2.03	0.41
8:QM:258:ASN:O	8:QM:259:LEU:HD22	2.21	0.41
8:QM:377:MET:HE1	8:QM:379:SER:HB3	2.02	0.41
8:QM:385:ALA:HA	8:QM:388:TRP:CD1	2.54	0.41
9:QN:86:ARG:HG3	9:QN:88:ASP:N	2.36	0.41
9:QN:299:MET:HB2	9:QN:299:MET:HE2	1.78	0.41
8:QO:154:MET:H	8:QO:154:MET:HG3	1.75	0.41
9:QP:230:SER:HA	9:QP:233:MET:CG	2.47	0.41
9:QP:414:ASN:O	9:QP:418:LEU:N	2.49	0.41
11:R0:315:HIS:HB3	11:R1:202:LYS:CG	2.51	0.41
11:R1:95:ALA:HB1	11:R1:243:ILE:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R1:273:GLU:OE2	12:S2:39:HIS:NE2	2.51	0.41
11:R3:284:LYS:O	11:R3:287:LEU:HG	2.21	0.41
11:R3:339:ILE:HG23	11:R4:206:THR:HB	2.03	0.41
11:R3:352:MET:HE3	11:R3:352:MET:HB2	1.83	0.41
8:RC:284:GLU:HG2	8:RC:286:LEU:HD22	2.03	0.41
9:RD:318:ARG:HG2	9:RD:356:ILE:O	2.20	0.41
9:RD:375:GLN:HA	9:RD:378:PHE:HD2	1.85	0.41
9:RD:407:GLU:HA	9:RD:410:GLU:HG2	2.02	0.41
9:RF:242:PHE:HB2	9:RF:354:CYS:SG	2.60	0.41
9:RF:258:VAL:HB	8:RG:407:TRP:HZ2	1.86	0.41
8:RG:11:GLN:HB3	50:RG:501:GTP:PA	2.61	0.41
8:RG:68:VAL:HG12	8:RG:93:ILE:HB	2.03	0.41
8:RG:72:PRO:O	8:RG:76:ASP:N	2.51	0.41
8:RG:171:ILE:HD13	8:RG:204:VAL:HG13	2.03	0.41
8:RG:206:ASN:HB3	8:RG:210:TYR:CZ	2.56	0.41
8:RG:211:ASP:HA	8:RG:215:ARG:NH1	2.36	0.41
9:RH:326:VAL:O	9:RH:330:MET:HG3	2.21	0.41
9:RJ:7:LEU:O	9:RJ:135:LEU:HA	2.21	0.41
9:RJ:21:TRP:CH2	9:RJ:50:TYR:HB3	2.56	0.41
9:RJ:26:ASP:O	9:RJ:359:ARG:NH1	2.54	0.41
9:RL:321:MET:CE	9:RL:363:MET:HE3	2.45	0.41
9:RL:331:LEU:HD13	8:RM:176:GLN:NE2	2.36	0.41
8:RM:53:PHE:O	8:RM:64:ARG:NH1	2.53	0.41
8:RO:319:TYR:HB3	8:RO:323:VAL:HG11	2.03	0.41
8:RO:428:LEU:HD23	8:RO:428:LEU:HA	1.88	0.41
12:S1:55:TYR:CE1	12:S7:228:CYS:HB2	2.56	0.41
12:S1:71:ARG:NH2	12:S2:227:LEU:HD12	2.36	0.41
12:S1:202:ARG:NE	12:S1:216:GLU:OE1	2.51	0.41
12:S2:107:PHE:CE2	12:S3:360:LYS:HD3	2.56	0.41
12:S2:350:ARG:HA	12:S2:350:ARG:HD2	1.89	0.41
12:S9:470:GLN:HG2	14:T1:164:HIS:CE1	2.56	0.41
12:S9:472:LYS:HE3	12:S9:472:LYS:HB3	1.85	0.41
9:SD:330:MET:HB2	9:SD:349:VAL:HG11	2.01	0.41
9:SD:356:ILE:HA	9:SD:356:ILE:HD13	1.75	0.41
8:SE:13:GLY:HA2	8:SE:16:ILE:HG22	2.03	0.41
8:SE:259:LEU:HA	8:SE:314:ALA:HB1	2.03	0.41
9:SF:202:ILE:HD11	9:SF:300:MET:HG3	2.03	0.41
9:SF:377:LEU:O	9:SF:381:ILE:HG12	2.20	0.41
8:SG:135:PHE:N	8:SG:165:SER:O	2.53	0.41
9:SH:324:LYS:O	9:SH:328:GLU:N	2.53	0.41
8:SI:338:LYS:HE2	8:SI:340:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SJ:42:LEU:HD13	9:SJ:356:ILE:HD11	2.03	0.41
8:SK:135:PHE:N	8:SK:165:SER:O	2.47	0.41
8:SK:319:TYR:HD2	8:SK:355:ILE:HG12	1.86	0.41
9:SL:269:GLY:HA2	9:SL:300:MET:HE3	2.03	0.41
8:SM:125:LEU:HD23	8:SM:125:LEU:HA	1.85	0.41
8:SM:215:ARG:NH2	8:SM:299:ALA:O	2.53	0.41
9:SN:377:LEU:O	9:SN:381:ILE:HG12	2.21	0.41
25:T:170:ARG:NH2	25:T:202:ASN:O	2.52	0.41
14:T0:8:LEU:CD1	14:T0:11:GLU:HB2	2.50	0.41
14:T0:78:ARG:NH2	14:T1:331:ASP:OD1	2.53	0.41
14:T1:101:ARG:NH2	30:U3:486:THR:O	2.51	0.41
14:T1:110:MET:HB2	14:T1:222:TYR:HD2	1.86	0.41
14:T1:130:LEU:HB3	14:T1:279:ARG:HD3	2.03	0.41
14:T1:356:ARG:O	14:T1:360:ARG:HG2	2.21	0.41
14:T1:428:GLN:O	14:T1:431:MET:HE3	2.20	0.41
14:T4:71:ARG:NH2	14:T5:324:LYS:HE2	2.35	0.41
14:T4:218:LYS:NZ	14:T4:257:TRP:HE1	2.19	0.41
14:T4:231:TYR:HE1	14:T4:237:GLN:HB2	1.86	0.41
14:T4:370:ARG:HD2	14:T4:375:PHE:HE1	1.86	0.41
8:TA:348:PRO:HD2	9:TB:388:MET:HE1	2.02	0.41
8:TA:372:GLN:H	8:TA:372:GLN:HG2	1.68	0.41
9:TB:117:LEU:HD23	9:TB:117:LEU:HA	1.89	0.41
9:TB:198:GLU:HB2	9:TB:266:PHE:HE2	1.84	0.41
9:TB:309:ARG:NH2	9:TB:339:SER:O	2.53	0.41
9:TB:323:MET:HE3	9:TB:323:MET:N	2.24	0.41
8:TC:182:VAL:O	8:TC:186:ASN:ND2	2.53	0.41
8:TC:395:PHE:HD2	8:TC:422:ARG:HD3	1.84	0.41
8:TE:52:PHE:CZ	8:TE:239:THR:HG21	2.55	0.41
8:TE:381:THR:OG1	8:TE:382:THR:N	2.54	0.41
8:TG:269:LEU:HD12	8:TG:270:ALA:N	2.36	0.41
9:TH:68:LEU:HD23	9:TH:68:LEU:HA	1.89	0.41
9:TH:377:LEU:O	9:TH:381:ILE:HG12	2.21	0.41
9:TL:323:MET:HE1	8:TM:224:TYR:CD1	2.56	0.41
8:TM:22:GLU:O	8:TM:26:LEU:HG	2.21	0.41
9:TN:247:ASN:O	9:TN:252:LYS:NZ	2.54	0.41
25:U:201:LEU:HD13	25:U:201:LEU:HA	1.87	0.41
25:U:270:ASP:O	25:U:272:THR:OG1	2.22	0.41
25:U:293:ASN:O	25:U:295:GLN:HG2	2.21	0.41
25:U:498:VAL:HG23	25:U:501:HIS:HB2	2.02	0.41
30:U0:201:ARG:NH1	30:U0:207:VAL:H	2.19	0.41
30:U0:205:ASP:O	30:U0:207:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U1:234:LYS:HA	30:U1:234:LYS:HD3	1.89	0.41
30:U1:410:ASP:OD1	30:U1:410:ASP:N	2.47	0.41
30:U1:416:LEU:O	30:U1:419:GLU:HB2	2.21	0.41
30:U1:436:GLU:O	30:U1:440:THR:HG23	2.21	0.41
30:U2:140:ARG:HH22	30:U2:144:GLN:HB2	1.86	0.41
30:U3:205:ASP:OD2	30:U3:457:ILE:HG22	2.21	0.41
30:U3:313:ASN:HA	30:U3:316:ARG:NE	2.36	0.41
30:U3:363:LYS:HB3	30:U4:110:ARG:HH22	1.86	0.41
30:U4:153:LYS:HE2	30:U4:153:LYS:HB2	1.74	0.41
30:U5:110:ARG:HD3	30:U6:363:LYS:HG2	2.02	0.41
30:U5:138:THR:OG1	30:U6:419:GLU:OE1	2.38	0.41
30:U6:201:ARG:HH11	30:U6:464:ILE:HD12	1.85	0.41
30:U7:202:ILE:HD12	30:U7:202:ILE:HA	1.84	0.41
30:U9:351:THR:HA	30:U9:462:LEU:HD11	2.03	0.41
8:UA:209:ILE:H	8:UA:209:ILE:HG13	1.62	0.41
8:UA:292:THR:HG21	8:UA:331:ALA:HB1	2.02	0.41
8:UA:338:LYS:HE2	8:UA:340:THR:HB	2.02	0.41
9:UB:51:TYR:O	9:UB:62:ARG:NH2	2.52	0.41
9:UB:213:ARG:O	9:UB:216:LYS:NZ	2.47	0.41
9:UB:252:LYS:NZ	50:UC:501:GTP:O3G	2.43	0.41
9:UB:261:PRO:HG3	8:UC:406:HIS:CD2	2.56	0.41
9:UB:276:ARG:NH1	39:c:453:GLN:HE21	2.19	0.41
8:UC:20:CYS:HB3	8:UC:24:TYR:CZ	2.56	0.41
9:UD:4:ILE:HG12	9:UD:131:GLN:HE21	1.86	0.41
8:UE:21:TRP:CE3	8:UE:24:TYR:HD2	2.38	0.41
8:UE:365:GLY:HA2	39:c:379:ALA:HB3	2.02	0.41
9:UF:8:GLN:HB3	9:UF:65:LEU:HA	2.03	0.41
9:UF:233:MET:H	9:UF:233:MET:HG2	1.67	0.41
8:UG:3:GLU:H	8:UG:133:GLN:HG2	1.86	0.41
8:UG:228:ASN:HA	8:UG:231:ILE:HD12	2.03	0.41
9:UH:248:ALA:HA	9:UH:252:LYS:HG3	2.03	0.41
8:UI:215:ARG:NH1	8:UI:216:ASN:OD1	2.53	0.41
8:UK:3:GLU:OE2	8:UK:64:ARG:NH2	2.53	0.41
8:UK:171:ILE:HD13	8:UK:171:ILE:HA	1.91	0.41
8:UK:215:ARG:NH2	8:UK:299:ALA:O	2.54	0.41
9:UL:158:GLU:HG3	9:UL:159:TYR:CD1	2.56	0.41
9:UL:289:LEU:HD11	9:UL:363:MET:HG3	2.03	0.41
9:UL:305:PRO:HA	9:UL:373:ALA:HB2	2.01	0.41
8:UM:252:LEU:HA	8:UM:255:PHE:CE1	2.55	0.41
8:UM:352:LYS:NZ	9:UN:179:VAL:H	2.19	0.41
8:UM:422:ARG:HH12	8:UM:426:ALA:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UN:216:LYS:HZ2	9:UN:216:LYS:HG3	1.72	0.41
8:UO:51:THR:HG23	8:UO:52:PHE:CE1	2.55	0.41
8:UO:141:PHE:HB2	8:UO:173:PRO:HD3	2.03	0.41
8:UO:149:PHE:HA	8:UO:152:LEU:HG	2.01	0.41
8:UO:237:SER:OG	8:UO:320:ARG:NH2	2.54	0.41
8:UO:270:ALA:HB3	8:UO:302:MET:HE1	2.03	0.41
25:V:326:ALA:HA	25:V:329:PHE:CD1	2.51	0.41
30:V2:177:LEU:CD2	30:V2:229:MET:HB2	2.51	0.41
30:V2:189:GLN:O	30:V2:193:GLU:HG2	2.21	0.41
30:V2:211:VAL:HG21	30:V2:346:ARG:HB2	2.03	0.41
30:V4:227:ASP:O	30:V4:231:LYS:HG2	2.21	0.41
30:V5:194:CYS:SG	30:V5:343:PHE:HZ	2.44	0.41
30:V5:270:LEU:HD23	30:V5:271:ARG:HD3	2.01	0.41
9:VB:226:ASN:OD1	52:VB:502:GDP:N1	2.46	0.41
8:VC:245:ASP:OD1	8:VC:245:ASP:N	2.50	0.41
9:VD:5:VAL:HB	9:VD:133:PHE:HD1	1.85	0.41
8:VE:196:GLU:CD	8:VE:196:GLU:H	2.28	0.41
8:VE:258:ASN:HD21	9:VF:99:ASN:HD22	1.69	0.41
8:VE:261:PRO:HB3	9:VF:394:PHE:CE2	2.56	0.41
9:VF:123:GLU:O	9:VF:126:SER:OG	2.32	0.41
9:VF:289:LEU:HD12	9:VF:289:LEU:H	1.85	0.41
9:VF:317:PHE:HB3	9:VF:321:MET:HE1	2.03	0.41
9:VF:324:LYS:HE2	8:VG:210:TYR:HB3	2.02	0.41
8:VG:7:ILE:HG21	8:VG:7:ILE:HD13	1.82	0.41
8:VG:171:ILE:HD13	8:VG:204:VAL:HG23	2.02	0.41
8:VG:298:PRO:HA	8:VG:301:GLN:HG2	2.01	0.41
9:VH:172:SER:HB2	9:VH:203:ASP:OD1	2.21	0.41
9:VH:299:MET:HE2	9:VH:299:MET:HB3	1.70	0.41
8:VI:115:VAL:HG12	8:VI:152:LEU:HD13	2.02	0.41
8:VI:132:LEU:HD21	8:VI:135:PHE:CE2	2.55	0.41
8:VI:231:ILE:O	8:VI:234:ILE:HG22	2.20	0.41
8:VI:338:LYS:HE2	8:VI:340:THR:HB	2.02	0.41
9:VJ:150:LEU:O	9:VJ:154:LYS:HG2	2.20	0.41
9:VJ:174:LYS:HA	9:VJ:174:LYS:HD3	1.71	0.41
9:VJ:253:LEU:O	9:VJ:256:ASN:N	2.54	0.41
8:VK:6:SER:HB2	8:VK:65:ALA:HA	2.02	0.41
8:VK:16:ILE:HG21	8:VK:138:PHE:CD2	2.56	0.41
8:VK:21:TRP:CZ3	8:VK:63:PRO:HB3	2.56	0.41
8:VK:209:ILE:HD13	8:VK:209:ILE:HA	1.97	0.41
9:VL:184:ASN:OD1	9:VL:398:TYR:OH	2.37	0.41
9:VL:215:LEU:HB3	9:VL:217:LEU:CD2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VM:155:GLU:HB2	8:VM:197:HIS:CE1	2.56	0.41
8:VO:7:ILE:HD13	8:VO:7:ILE:HG21	1.69	0.41
8:VO:128:LEU:HD22	8:WO:285:GLN:HE21	1.85	0.41
8:VO:276:ILE:CD1	8:VO:280:LYS:HD3	2.51	0.41
31:W:389:LYS:HD3	31:W:390:TYR:N	2.36	0.41
31:W:650:LYS:H	31:W:650:LYS:HG2	1.67	0.41
31:W:712:TYR:O	31:W:713:LEU:HB3	2.21	0.41
31:W:720:VAL:HA	31:W:724:MET:HE1	2.03	0.41
30:W4:151:PHE:O	30:W4:154:SER:OG	2.30	0.41
30:W4:465:ASP:OD1	30:W4:465:ASP:N	2.53	0.41
30:W5:311:ARG:O	30:W5:314:SER:OG	2.25	0.41
30:W5:436:GLU:O	30:W5:440:THR:HG23	2.20	0.41
30:W7:156:LEU:HB3	30:W7:250:LEU:HD11	2.03	0.41
9:WB:125:GLU:OE2	9:WB:159:TYR:OH	2.39	0.41
9:WD:152:ILE:HB	9:WD:191:GLN:HE22	1.86	0.41
9:WD:337:ASN:HB3	9:WD:340:TYR:HD2	1.85	0.41
8:WE:171:ILE:HD13	8:WE:204:VAL:HG13	2.03	0.41
9:WF:310:TYR:N	9:WF:340:TYR:O	2.42	0.41
9:WF:318:ARG:HH11	9:WF:358:PRO:HB3	1.86	0.41
9:WH:125:GLU:OE2	9:WH:159:TYR:OH	2.38	0.41
8:WI:265:ILE:HG21	8:WI:313:MET:HE1	2.03	0.41
9:WJ:117:LEU:HD23	9:WJ:117:LEU:HA	1.85	0.41
8:WK:2:ARG:H	8:WK:2:ARG:HG2	1.66	0.41
8:WK:52:PHE:CE2	8:WK:243:ARG:HD3	2.55	0.41
8:WK:329:ASN:HA	8:WK:332:ILE:HG12	2.03	0.41
9:WL:8:GLN:HB3	9:WL:65:LEU:HA	2.03	0.41
9:WL:310:TYR:N	9:WL:340:TYR:O	2.41	0.41
9:WL:324:LYS:HB3	8:WM:221:ARG:HH21	1.86	0.41
8:WM:85:GLN:CD	8:WM:85:GLN:H	2.29	0.41
8:WM:115:VAL:HG12	8:WM:152:LEU:HD13	2.03	0.41
8:WM:270:ALA:HA	8:WM:378:LEU:HD13	2.03	0.41
9:WN:207:LEU:HD21	9:WN:300:MET:SD	2.61	0.41
31:X:589:ILE:HD13	31:X:589:ILE:HA	1.87	0.41
31:X:590:THR:HG21	31:X:594:LEU:HB2	2.03	0.41
31:X:711:PRO:O	31:X:713:LEU:HG	2.21	0.41
33:X4:313:VAL:HG23	33:X4:314:GLY:N	2.19	0.41
34:X6:4:ASP:O	34:X6:8:SER:N	2.48	0.41
34:X6:81:VAL:HG12	34:X6:82:CYS:N	2.35	0.41
34:X7:5:LYS:HD2	34:X7:5:LYS:HA	1.77	0.41
34:X7:236:LEU:HD13	34:X7:240:CYS:SG	2.61	0.41
34:X7:243:LEU:HD12	34:X7:247:LEU:HG	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XA:72:LYS:HB2	37:YA:62:ARG:CZ	2.50	0.41
35:XB:39:ASP:N	35:XB:44:SER:O	2.53	0.41
35:XC:73:LEU:HB2	35:XC:167:PHE:HB3	2.02	0.41
35:XC:83:LEU:HD11	35:XC:161:ARG:HD3	2.02	0.41
35:XE:146:THR:OG1	35:XE:147:ASN:N	2.54	0.41
35:XF:72:LYS:HZ3	35:XF:150:GLU:HB3	1.85	0.41
35:XF:76:LEU:HB3	35:XF:134:PHE:HB3	2.03	0.41
35:XG:84:LYS:HE2	35:XG:84:LYS:HB2	1.92	0.41
35:XH:146:THR:OG1	35:XH:147:ASN:N	2.53	0.41
35:XH:171:LEU:HD23	35:XH:171:LEU:HA	1.72	0.41
31:Y:505:GLU:O	31:Y:508:TYR:OH	2.21	0.41
31:Y:573:HIS:ND1	31:Y:573:HIS:O	2.53	0.41
36:Y0:35:THR:HB	36:Y0:45:LYS:HE2	2.03	0.41
36:Y1:106:TYR:CD2	36:Y1:107:PHE:N	2.89	0.41
36:Y4:189:GLU:OE1	36:Y4:192:VAL:HG13	2.20	0.41
37:YB:113:ARG:HA	37:YB:113:ARG:HD2	1.93	0.41
37:YC:89:TYR:CZ	37:YC:118:MET:HE3	2.56	0.41
31:Z:492:GLU:N	31:Z:492:GLU:OE1	2.54	0.41
31:Z:526:ASP:HB3	31:Z:529:THR:HG23	2.02	0.41
17:Z5:226:PRO:O	17:Z5:243:ALA:HB1	2.20	0.41
39:a:194:MET:SD	39:b:521:LYS:CE	3.09	0.41
39:a:360:LYS:O	39:a:364:GLU:HG2	2.21	0.41
40:a3:97:LYS:HD3	40:a3:97:LYS:HA	1.93	0.41
40:a4:139:ASP:OD1	40:a4:143:GLN:NE2	2.49	0.41
41:b1:428:HIS:HA	41:b1:431:LYS:NZ	2.35	0.41
41:b2:166:SER:HA	41:b2:169:ARG:NH1	2.36	0.41
41:b2:429:MET:HE3	41:b2:429:MET:HB2	1.82	0.41
41:b3:112:PRO:HB2	44:h2:127:TYR:HD2	1.86	0.41
41:b3:414:ARG:HD2	41:b4:118:ARG:HE	1.86	0.41
41:b4:169:ARG:HG3	41:b4:474:TYR:CE2	2.56	0.41
42:e:213:MET:HA	42:e:220:PHE:HA	2.02	0.41
42:e:602:ILE:N	42:e:614:TRP:O	2.31	0.41
42:f:272:LEU:HD11	42:f:286:LYS:HB2	2.03	0.41
42:f:349:ALA:HA	42:f:358:VAL:HA	2.03	0.41
42:f:515:PHE:O	42:f:531:VAL:N	2.44	0.41
42:g:229:ILE:H	42:g:243:GLY:HA3	1.85	0.41
43:h:114:ILE:HG22	43:h:115:MET:SD	2.61	0.41
43:i:208:HIS:HA	43:i:211:PHE:HB3	2.03	0.41
43:i:252:ILE:CD1	47:o:44:ILE:HB	2.50	0.41
46:i2:1401:GLN:HG3	46:i2:1405:LEU:HD23	2.02	0.41
46:i2:1422:ASN:OD1	46:i2:1455:ARG:NE	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:i3:1336:ILE:HA	46:i3:1343:LEU:HD12	2.03	0.41
4:j1:136:GLY:C	4:j1:184:ARG:HD2	2.45	0.41
4:j1:159:HIS:CE1	4:j1:162:ARG:HB2	2.56	0.41
45:n:88:ALA:O	45:n:92:LEU:HD23	2.21	0.41
47:o:201:ARG:O	47:o:204:GLU:HG3	2.21	0.41
2:1:513:HIS:HA	2:1:519:LEU:HD22	2.03	0.41
2:1:799:ASP:OD2	2:1:799:ASP:N	2.54	0.41
3:3:11:ARG:HA	3:3:11:ARG:HD3	1.86	0.41
3:3:212:LYS:C	9:GJ:276:ARG:HH22	2.29	0.41
4:5:136:GLY:C	4:5:184:ARG:HD2	2.46	0.41
4:6:381:ASP:HB3	4:6:385:GLU:HG3	2.03	0.41
7:A1:395:LYS:HE2	12:C1:362:HIS:CE1	2.55	0.41
7:A4:232:LEU:HD23	7:A4:232:LEU:HA	1.89	0.41
7:A4:334:GLN:O	7:A4:338:ILE:HG13	2.21	0.41
8:AA:431:ASP:OD1	35:XA:102:ARG:NH2	2.42	0.41
8:AC:287:SER:N	8:AC:290:GLU:OE2	2.41	0.41
8:AE:212:ILE:HD12	8:AE:302:MET:HG2	2.03	0.41
8:AE:214:ARG:NH1	48:q:88:ASN:OD1	2.54	0.41
8:AE:344:VAL:HG22	8:AE:347:CYS:SG	2.61	0.41
9:AH:122:LYS:HA	9:AH:122:LYS:HD3	1.78	0.41
8:AI:325:PRO:HA	8:AI:328:VAL:CG1	2.51	0.41
8:AK:218:ASP:OD2	22:M3:41:TYR:HB3	2.21	0.41
8:AM:255:PHE:O	8:AM:259:LEU:HB2	2.21	0.41
9:AN:256:ASN:HD22	8:AO:182:VAL:HG22	1.85	0.41
11:B2:411:PHE:CZ	12:S6:239:LYS:HD2	2.56	0.41
8:BC:10:GLY:O	8:BC:14:VAL:HG22	2.20	0.41
8:BC:102:ASN:ND2	8:BC:105:ARG:HG3	2.36	0.41
8:BC:338:LYS:HE2	8:BC:340:THR:HB	2.02	0.41
8:BC:425:LEU:HD12	8:BC:425:LEU:HA	1.83	0.41
9:BD:31:ASP:OD1	9:BD:35:THR:N	2.53	0.41
9:BF:346:PRO:HD2	8:BG:398:MET:HE2	2.03	0.41
9:BH:105:HIS:CE1	9:BH:150:LEU:HB2	2.56	0.41
8:BK:252:LEU:HA	8:BK:255:PHE:CE2	2.56	0.41
9:BL:359:ARG:HE	9:BL:359:ARG:HB2	1.77	0.41
8:BM:21:TRP:CZ3	8:BM:63:PRO:HB3	2.56	0.41
8:BM:327:ASP:OD1	8:BM:328:VAL:N	2.54	0.41
9:BN:47:ILE:HG12	9:BN:51:TYR:HB2	2.03	0.41
9:BN:58:LYS:HB3	9:BN:58:LYS:HE2	1.71	0.41
9:BN:67:ASP:HA	9:BN:143:THR:HG21	2.02	0.41
9:BN:203:ASP:OD2	9:BN:205:GLU:HB3	2.21	0.41
9:BN:253:LEU:O	9:BN:256:ASN:N	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BP:264:HIS:HA	9:BP:266:PHE:CZ	2.55	0.41
10:C:238:LYS:HD3	10:C:238:LYS:HA	1.89	0.41
12:C1:176:ASP:HA	12:C1:179:ARG:HG2	2.03	0.41
12:C1:244:LEU:HD23	12:C1:244:LEU:HA	1.90	0.41
12:C2:101:ARG:NH1	17:P8:81:LEU:O	2.55	0.41
12:C2:136:ARG:NH1	12:C3:388:GLU:OE2	2.40	0.41
12:C2:358:LYS:HZ2	12:C2:358:LYS:HG3	1.47	0.41
12:C2:445:LEU:HD12	12:C2:445:LEU:HA	1.67	0.41
12:C4:415:MET:O	12:C4:419:ARG:HG2	2.20	0.41
9:CB:323:MET:HE3	9:CB:323:MET:N	2.22	0.41
9:CD:407:GLU:HA	9:CD:410:GLU:HG2	2.03	0.41
8:CE:150:ALA:O	8:CE:154:MET:HG2	2.21	0.41
8:CG:259:LEU:HG	8:CG:316:CYS:SG	2.61	0.41
8:CK:275:VAL:HG12	8:CK:368:LEU:HD11	2.03	0.41
9:CL:8:GLN:HG2	9:CL:14:ASN:HA	2.03	0.41
9:CL:256:ASN:ND2	8:CM:181:VAL:H	2.19	0.41
9:CL:258:VAL:HB	8:CM:407:TRP:HZ2	1.86	0.41
9:CN:395:LEU:O	9:CN:399:THR:HG23	2.21	0.41
9:CP:357:PRO:HG2	27:P7:16:ILE:HG13	2.03	0.41
14:D1:154:ASP:HA	28:Q1:116:MET:HE1	2.03	0.41
14:D2:293:LEU:HD23	14:D2:293:LEU:HA	1.86	0.41
14:D2:294:ARG:HH21	14:D2:440:VAL:HG11	1.86	0.41
14:D2:427:ARG:HA	14:D2:431:MET:HE3	2.03	0.41
14:D3:213:MET:HE3	14:D3:213:MET:HB3	1.93	0.41
14:D5:402:LEU:HA	14:D5:405:LEU:HG	2.03	0.41
8:DG:7:ILE:HG23	8:DG:122:ILE:HD11	2.02	0.41
9:DJ:361:LEU:HD12	9:DJ:361:LEU:HA	1.88	0.41
9:DL:81:PHE:HB3	9:DL:84:ILE:HD13	2.03	0.41
9:DL:257:MET:SD	9:DL:314:ALA:HB2	2.60	0.41
8:DM:50:ASN:HA	8:DM:53:PHE:O	2.21	0.41
8:DO:58:ALA:C	8:DO:60:LYS:HG2	2.46	0.41
15:E:44:ARG:O	15:E:48:LYS:HD3	2.21	0.41
9:ED:174:LYS:H	9:ED:174:LYS:HG2	1.67	0.41
8:EG:155:GLU:HA	8:EG:197:HIS:CD2	2.56	0.41
9:EH:323:MET:N	9:EH:323:MET:HE2	2.36	0.41
9:EH:372:THR:HG21	9:EH:426:GLN:HB2	2.02	0.41
8:FA:2:ARG:HH22	9:FB:71:GLY:H	1.69	0.41
9:FD:267:MET:HG3	9:FD:299:MET:SD	2.61	0.41
8:FI:263:PRO:HG3	9:FJ:396:HIS:CG	2.56	0.41
8:FK:79:ARG:HH21	8:FK:94:THR:HG23	1.86	0.41
9:FL:184:ASN:OD1	9:FL:398:TYR:OH	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FM:119:LEU:HB3	8:FM:123:ARG:NH2	2.36	0.41
9:GB:282:ARG:HD3	9:GB:282:ARG:HA	1.93	0.41
8:GC:64:ARG:HG2	8:GC:125:LEU:HD22	2.03	0.41
8:GE:182:VAL:O	8:GE:186:ASN:ND2	2.54	0.41
9:GF:221:THR:N	9:GF:224:ASP:OD2	2.54	0.41
9:GF:317:PHE:HB3	9:GF:321:MET:HE1	2.02	0.41
9:GH:201:CYS:SG	9:GH:265:PHE:HB3	2.61	0.41
9:GJ:7:LEU:N	9:GJ:134:GLN:O	2.40	0.41
8:GK:88:HIS:HB3	8:GK:91:GLN:CG	2.51	0.41
9:GL:118:ASP:O	9:GL:122:LYS:HG2	2.21	0.41
9:GN:70:PRO:HB3	9:GN:92:PHE:CD2	2.56	0.41
9:GN:253:LEU:O	9:GN:257:MET:N	2.54	0.41
8:HA:311:LYS:HD3	8:HA:344:VAL:HG12	2.02	0.41
8:HA:370:LYS:HD2	8:HA:370:LYS:HA	1.83	0.41
9:HB:119:VAL:HA	9:HB:122:LYS:HB2	2.01	0.41
8:HC:252:LEU:HA	8:HC:255:PHE:CE2	2.56	0.41
9:HD:259:PRO:HG3	9:HD:311:LEU:HD11	2.03	0.41
8:HE:175:PRO:O	8:HE:394:LYS:NZ	2.37	0.41
9:HF:317:PHE:HZ	9:HF:330:MET:HE3	1.86	0.41
8:HI:172:TYR:HB2	8:HI:203:MET:HB2	2.03	0.41
8:HK:239:THR:HB	8:HK:243:ARG:HH11	1.86	0.41
9:HL:12:CYS:SG	9:HL:138:SER:HB3	2.61	0.41
8:HM:242:LEU:HD21	8:HM:251:ASP:OD1	2.21	0.41
8:HM:279:GLU:OE2	26:P2:62:LYS:HD3	2.21	0.41
9:HN:269:GLY:HA3	9:HN:367:PHE:HD2	1.86	0.41
9:HN:349:VAL:C	9:HN:350:LYS:HD2	2.46	0.41
8:HO:21:TRP:CZ2	8:HO:65:ALA:HB2	2.56	0.41
17:I:199:GLY:N	11:R1:417:ARG:HH12	2.19	0.41
18:I1:65:ASN:HD22	18:I1:75:GLU:HG3	1.85	0.41
8:IA:338:LYS:HD2	8:IA:340:THR:HG23	2.02	0.41
8:IC:171:ILE:HD13	8:IC:171:ILE:HA	1.89	0.41
8:IC:215:ARG:NH1	8:IC:215:ARG:O	2.53	0.41
8:IC:298:PRO:HB3	8:IC:307:PRO:HD2	2.03	0.41
8:IE:101:ASN:OD1	8:IE:143:GLY:HA2	2.21	0.41
8:IE:326:LYS:HG3	8:IE:327:ASP:H	1.86	0.41
8:IG:6:SER:HA	8:IG:136:LEU:O	2.21	0.41
8:II:209:ILE:H	8:II:209:ILE:HG13	1.58	0.41
9:IJ:84:ILE:HG13	9:IJ:85:PHE:HD2	1.86	0.41
9:IJ:158:GLU:HB2	9:IJ:159:TYR:CD1	2.55	0.41
9:IJ:163:ILE:HA	9:IJ:197:ASP:OD2	2.20	0.41
8:IK:172:TYR:CD2	8:IK:173:PRO:HD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IM:7:ILE:HG22	8:IM:7:ILE:O	2.20	0.41
8:IM:53:PHE:O	8:IM:64:ARG:NH1	2.54	0.41
8:IM:320:ARG:NH2	8:IM:360:PRO:HA	2.36	0.41
9:IN:165:ASN:OD1	9:IN:198:GLU:HG2	2.21	0.41
8:IO:3:GLU:OE2	8:IO:64:ARG:HD3	2.21	0.41
9:IP:164:MET:HE2	9:IP:164:MET:HA	2.03	0.41
9:IP:178:THR:HG22	9:IP:180:VAL:H	1.86	0.41
19:J3:233:ASP:OD2	19:J3:234:ALA:N	2.53	0.41
19:J3:271:ARG:HD2	19:J3:278:GLY:O	2.21	0.41
9:JB:323:MET:HE2	8:JC:224:TYR:CD2	2.56	0.41
9:JB:377:LEU:HG	9:JB:380:ARG:HH21	1.86	0.41
8:JE:405:VAL:HG12	8:JE:409:VAL:HG23	2.03	0.41
9:JF:206:ALA:HB3	9:JF:300:MET:O	2.21	0.41
8:JI:182:VAL:HG23	8:JI:185:TYR:HD2	1.85	0.41
9:JJ:84:ILE:HD13	9:JJ:84:ILE:HA	1.95	0.41
9:JJ:282:ARG:NH2	9:JJ:292:GLN:OE1	2.44	0.41
9:JL:120:VAL:O	9:JL:124:ALA:N	2.44	0.41
9:JN:8:GLN:NE2	9:JN:136:THR:OG1	2.47	0.41
8:JO:4:CYS:O	8:JO:5:ILE:HD13	2.21	0.41
8:JQ:184:PRO:O	8:JQ:188:ILE:HG23	2.21	0.41
8:JQ:234:ILE:HG23	8:JQ:376:CYS:SG	2.61	0.41
17:K:28:ARG:O	17:K:28:ARG:HD2	2.20	0.41
20:K1:25:LEU:HD12	20:K1:26:PHE:N	2.35	0.41
20:K2:13:GLN:OE1	20:K2:18:GLN:NE2	2.53	0.41
13:K3:283:PRO:HA	13:K3:284:PRO:HD3	1.86	0.41
8:KA:319:TYR:HD1	8:KA:323:VAL:HG21	1.86	0.41
9:KB:276:ARG:NE	9:KB:279:GLN:OE1	2.51	0.41
8:KE:425:LEU:O	8:KE:425:LEU:HD12	2.21	0.41
8:KG:203:MET:HE1	8:KG:267:PHE:CD1	2.56	0.41
8:KG:285:GLN:NE2	8:KG:287:SER:HB3	2.36	0.41
9:KJ:405:GLU:HB2	9:KJ:406:MET:HE2	2.03	0.41
8:KM:385:ALA:HB2	8:KM:432:TYR:HD2	1.86	0.41
8:KM:408:TYR:HB3	8:KM:413:MET:HE2	2.02	0.41
9:KN:172:SER:OG	9:KN:205:GLU:OE2	2.32	0.41
9:KN:359:ARG:HG3	9:KN:359:ARG:HH11	1.84	0.41
8:KO:56:THR:HA	8:LO:285:GLN:HB2	2.03	0.41
9:KP:324:LYS:HB3	9:KP:324:LYS:HE2	1.84	0.41
17:L:289:ILE:HA	17:L:290:PRO:HD3	1.82	0.41
8:LA:33:ASP:OD1	8:LA:35:GLN:N	2.54	0.41
9:LB:294:PHE:CE2	9:LB:333:VAL:HG21	2.56	0.41
8:LC:425:LEU:HD12	8:LC:428:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:241:SER:OG	8:LE:250:VAL:O	2.20	0.41
9:LH:54:ALA:HA	9:MH:283:ALA:HB2	2.02	0.41
9:LJ:371:SER:O	9:LJ:374:ILE:HG22	2.21	0.41
8:LM:125:LEU:HD23	8:LM:125:LEU:HA	1.84	0.41
8:LM:370:LYS:HD2	8:LM:370:LYS:HA	1.84	0.41
17:M:267:ARG:NE	31:Y:96:ILE:HG22	2.36	0.41
22:M1:182:LYS:HE3	22:M1:182:LYS:HB3	1.91	0.41
22:M2:193:ASP:OD2	22:M2:194:LEU:N	2.53	0.41
8:MA:209:ILE:H	8:MA:209:ILE:HG13	1.64	0.41
9:MB:198:GLU:OE1	9:MB:254:ALA:HB2	2.21	0.41
8:ME:112:LYS:HD2	8:ME:115:VAL:HG21	2.03	0.41
8:ME:112:LYS:HG3	48:q:98:THR:HG23	2.03	0.41
8:ME:122:ILE:HG13	8:ME:123:ARG:N	2.34	0.41
8:ME:270:ALA:HB3	8:ME:302:MET:SD	2.61	0.41
9:MF:240:LEU:HD23	9:MF:240:LEU:HA	1.87	0.41
8:MG:122:ILE:HD12	8:MG:122:ILE:HA	1.85	0.41
8:MG:205:ASP:OD1	8:MG:303:VAL:HA	2.21	0.41
8:MI:2:ARG:H	8:MI:2:ARG:HG2	1.70	0.41
9:MJ:1:MET:O	9:MJ:129:CYS:HB3	2.21	0.41
9:MJ:196:THR:HG22	9:MJ:198:GLU:H	1.86	0.41
8:MO:36:MET:HA	8:MO:37:PRO:HD2	1.91	0.41
8:MO:203:MET:HE1	8:MO:267:PHE:HB3	2.02	0.41
8:MO:338:LYS:HA	8:MO:338:LYS:HD3	1.65	0.41
9:MP:362:LYS:HB3	9:MP:362:LYS:HE2	1.87	0.41
9:MP:381:ILE:HB	9:MP:415:MET:HE1	2.03	0.41
8:NA:119:LEU:HD21	8:NA:156:ARG:HG3	2.02	0.41
9:NB:19:LYS:HB2	9:NB:226:ASN:ND2	2.36	0.41
9:NB:51:TYR:HB3	9:NB:59:TYR:HB3	2.02	0.41
9:NB:186:THR:HG21	9:NB:385:PHE:CZ	2.56	0.41
9:NB:257:MET:HE1	9:NB:368:ILE:CG2	2.50	0.41
9:NF:32:PRO:N	9:NF:81:PHE:CE2	2.88	0.41
9:NL:202:ILE:HD13	9:NL:202:ILE:HA	1.78	0.41
8:NM:125:LEU:HD23	8:NM:125:LEU:HA	1.96	0.41
8:NM:259:LEU:HD21	8:NM:268:PRO:HG3	2.02	0.41
9:NN:44:LEU:HA	9:NN:47:ILE:HB	2.03	0.41
9:NP:60:VAL:HG21	9:NP:86:ARG:NH2	2.36	0.41
24:O2:175:ILE:HD11	24:O2:180:GLU:HA	2.03	0.41
24:O3:73:SER:OG	24:O3:74:ASP:N	2.54	0.41
24:O4:127:THR:OG1	24:O4:130:ASP:OD1	2.39	0.41
17:O7:267:ARG:O	17:O7:269:HIS:N	2.54	0.41
17:O8:85:TYR:HB3	11:R1:215:LEU:HD23	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OA:136:LEU:H	8:OA:136:LEU:HD23	1.86	0.41
9:OB:21:TRP:CZ2	9:OB:63:ALA:HB2	2.55	0.41
9:OB:372:THR:HA	9:OB:422:TYR:CE1	2.48	0.41
9:OF:263:LEU:HD22	9:OF:422:TYR:CD2	2.55	0.41
9:OH:363:MET:HE2	9:OH:363:MET:HB3	1.99	0.41
8:OI:25:CYS:HB2	8:OI:30:ILE:HB	2.03	0.41
9:OJ:196:THR:HG21	9:OJ:199:THR:OG1	2.20	0.41
9:OJ:371:SER:O	9:OJ:422:TYR:OH	2.28	0.41
9:OJ:384:GLN:NE2	9:OJ:388:MET:HE3	2.29	0.41
9:OL:237:THR:HG1	9:OL:241:ARG:NH1	2.19	0.41
9:ON:173:PRO:HB3	9:ON:380:ARG:HD3	2.03	0.41
8:OO:319:TYR:CE1	8:OO:328:VAL:HG13	2.56	0.41
9:OP:117:LEU:HD11	9:OP:154:LYS:HD3	2.03	0.41
23:P:75:LEU:HD12	23:P:75:LEU:HA	1.85	0.41
23:P:287:LYS:HA	23:P:287:LYS:HD3	1.73	0.41
26:P2:49:HIS:HA	26:P2:55:ARG:HE	1.86	0.41
27:P6:141:GLN:HE22	27:P6:148:LYS:HE3	1.85	0.41
17:P8:53:CYS:SG	17:P8:54:SER:N	2.94	0.41
17:P8:89:TYR:C	17:P8:91:SER:H	2.29	0.41
9:PB:305:PRO:HA	9:PB:373:ALA:HB2	2.02	0.41
9:PD:332:ASN:HA	9:PD:336:LYS:HZ1	1.85	0.41
8:PE:102:ASN:ND2	8:PE:105:ARG:HG3	2.37	0.41
8:PE:255:PHE:O	8:PE:259:LEU:HB2	2.21	0.41
9:PF:30:ILE:HD12	9:PF:30:ILE:HA	1.87	0.41
9:PF:103:LYS:HB3	9:PF:103:LYS:HE2	1.89	0.41
8:PI:21:TRP:CZ3	8:PI:63:PRO:HB3	2.56	0.41
8:PI:298:PRO:HG3	8:PI:308:ARG:HH21	1.86	0.41
8:PK:352:LYS:HD2	9:PL:177:ASP:O	2.21	0.41
9:PL:21:TRP:CE3	9:PL:24:ILE:HD11	2.55	0.41
8:PO:324:VAL:HB	8:PO:327:ASP:OD2	2.21	0.41
8:QC:313:MET:HE3	8:QC:313:MET:HB3	1.77	0.41
8:QE:381:THR:OG1	8:QE:382:THR:N	2.53	0.41
9:QF:244:GLY:N	9:QF:247:ASN:OD1	2.51	0.41
9:QH:156:ARG:HD2	9:QH:156:ARG:HA	1.89	0.41
9:QH:258:VAL:O	8:QI:407:TRP:NE1	2.48	0.41
8:QK:212:ILE:O	8:QK:216:ASN:ND2	2.54	0.41
9:QL:142:GLY:N	52:QL:502:GDP:O3B	2.42	0.41
9:QN:253:LEU:HD12	9:QN:253:LEU:HA	1.78	0.41
8:QO:313:MET:HE2	8:QO:380:ASN:HB3	2.02	0.41
9:QP:31:ASP:OD1	9:QP:35:THR:N	2.52	0.41
11:R2:116:CYS:SG	11:R2:394:ARG:NH2	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R3:13:ARG:NH2	11:R3:16:ASP:OD1	2.54	0.41
11:R3:362:ALA:HB2	11:R4:38:ILE:HD13	2.03	0.41
11:R4:379:CYS:O	11:R4:383:THR:HG22	2.21	0.41
8:RC:271:THR:HG21	8:RC:295:CYS:HA	2.02	0.41
9:RD:199:THR:N	9:RD:264:HIS:O	2.49	0.41
9:RD:310:TYR:CD1	9:RD:371:SER:HB2	2.56	0.41
8:RI:149:PHE:CD1	8:RI:152:LEU:HD11	2.56	0.41
8:RI:339:ARG:HD3	8:RI:339:ARG:H	1.86	0.41
9:RJ:325:GLU:HG2	9:RJ:328:GLU:OE1	2.21	0.41
8:RK:276:ILE:HD11	8:RK:281:ALA:CA	2.51	0.41
8:RO:154:MET:HA	8:RO:157:LEU:HB3	2.02	0.41
29:S:190:LYS:HA	29:S:190:LYS:HD3	1.58	0.41
12:S0:156:TRP:HB2	12:S0:261:LYS:HZ3	1.85	0.41
12:S1:70:SER:O	12:S1:74:ARG:HB2	2.20	0.41
12:S1:71:ARG:HD3	12:S2:234:ARG:NH1	2.36	0.41
12:S1:329:LEU:HD23	12:S1:329:LEU:HA	1.84	0.41
12:S6:117:SER:HB2	12:S7:448:LEU:HD11	2.03	0.41
12:S6:181:LEU:HD12	12:S6:181:LEU:HA	1.83	0.41
12:S6:248:ARG:HA	12:S6:248:ARG:HD2	1.87	0.41
12:S7:183:ARG:HE	12:S7:186:ILE:CG2	2.34	0.41
12:S9:380:GLU:CG	12:S9:384:LYS:HE3	2.43	0.41
8:SA:231:ILE:HD12	8:SA:234:ILE:HD12	2.03	0.41
8:SC:83:TYR:HB3	8:SC:86:LEU:HB3	2.02	0.41
8:SC:191:THR:HA	8:SC:194:THR:HG22	2.03	0.41
9:SD:5:VAL:HG22	9:SD:62:ARG:HD2	2.03	0.41
9:SH:143:THR:O	9:SH:148:GLY:N	2.45	0.41
9:SH:275:SER:O	9:SH:279:GLN:HG2	2.21	0.41
9:SH:418:LEU:O	9:SH:422:TYR:HB3	2.21	0.41
8:SI:137:ILE:C	8:SI:138:PHE:HD2	2.29	0.41
8:SI:317:MET:HE2	8:SI:319:TYR:CE1	2.56	0.41
9:SJ:62:ARG:NH1	9:SJ:127:CYS:SG	2.94	0.41
8:SM:353:VAL:N	9:SN:177:ASP:OD1	2.42	0.41
14:T1:437:TYR:CE2	14:T1:441:LEU:HB3	2.56	0.41
14:T3:78:ARG:HA	14:T4:335:GLN:OE1	2.21	0.41
8:TA:226:ASN:O	8:TA:230:LEU:HD13	2.21	0.41
9:TD:238:THR:OG1	9:TD:354:CYS:SG	2.71	0.41
8:TE:171:ILE:HD13	8:TE:204:VAL:HG13	2.02	0.41
9:TF:68:LEU:HD23	9:TF:68:LEU:HA	1.90	0.41
9:TH:138:SER:HA	9:TH:169:VAL:HB	2.03	0.41
9:TH:246:LEU:HB3	9:TH:353:VAL:HG12	2.03	0.41
9:TJ:212:PHE:HE1	9:TJ:220:PRO:HG3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TK:19:ALA:O	8:TK:23:LEU:HD22	2.21	0.41
9:TL:10:GLY:O	9:TL:14:ASN:ND2	2.54	0.41
9:TN:202:ILE:HD11	9:TN:300:MET:HG3	2.03	0.41
30:U2:373:ASN:OD1	30:U2:376:MET:HE3	2.21	0.41
30:U4:159:GLU:HA	30:U4:162:ARG:HD2	2.03	0.41
30:U5:76:PRO:HB2	30:U5:86:LEU:CD2	2.51	0.41
9:UB:31:ASP:OD2	9:UB:35:THR:OG1	2.39	0.41
9:UB:164:MET:SD	9:UB:196:THR:HA	2.61	0.41
9:UB:313:VAL:O	9:UB:349:VAL:HA	2.21	0.41
8:UE:209:ILE:H	8:UE:209:ILE:HG13	1.71	0.41
8:UE:317:MET:HE1	8:UE:375:VAL:CG2	2.51	0.41
8:UE:408:TYR:HB3	8:UE:413:MET:SD	2.61	0.41
8:UG:319:TYR:CE2	8:UG:328:VAL:HG22	2.56	0.41
9:UJ:151:LEU:O	9:UJ:155:ILE:HG13	2.21	0.41
9:UJ:214:THR:HB	9:UJ:215:LEU:HD22	2.02	0.41
8:UK:70:LEU:HD11	8:UK:110:ILE:HG22	2.02	0.41
8:UK:282:TYR:HE1	39:c:207:ARG:HB3	1.84	0.41
9:UL:36:TYR:CG	9:UL:44:LEU:HD22	2.56	0.41
9:UL:316:VAL:HB	9:UL:366:THR:HG22	2.02	0.41
8:UM:36:MET:HG3	8:UM:61:HIS:NE2	2.36	0.41
8:UM:172:TYR:HB2	8:UM:203:MET:HB2	2.01	0.41
8:UO:11:GLN:HG3	8:UO:74:VAL:HG11	2.02	0.41
25:V:297:MET:CE	25:V:337:ILE:HD11	2.51	0.41
30:V0:353:VAL:HG11	30:V1:99:ASN:HD22	1.86	0.41
30:V1:189:GLN:O	30:V1:193:GLU:HG2	2.21	0.41
30:V1:293:PRO:HD2	30:V1:294:GLU:OE1	2.21	0.41
30:V2:415:ARG:O	30:V2:419:GLU:HG2	2.22	0.41
30:V3:337:THR:O	30:V3:341:LEU:HG	2.21	0.41
30:V3:398:CYS:HA	30:V3:401:ARG:NE	2.35	0.41
30:V5:181:ALA:O	30:V5:226:GLN:NE2	2.50	0.41
30:V5:347:ILE:HG13	30:V5:348:SER:N	2.36	0.41
30:V7:200:LYS:HE2	30:V7:200:LYS:HB2	1.82	0.41
8:VA:259:LEU:HD12	8:VA:259:LEU:HA	1.88	0.41
8:VC:263:PRO:HG3	9:VD:396:HIS:CD2	2.56	0.41
9:VD:245:GLN:HE22	9:VD:323:MET:CE	2.33	0.41
8:VE:72:PRO:O	8:VE:76:ASP:N	2.41	0.41
8:VE:251:ASP:HB3	8:VE:254:GLU:OE1	2.21	0.41
8:VG:316:CYS:C	8:VG:317:MET:HE2	2.46	0.41
8:VI:115:VAL:O	8:VI:119:LEU:HG	2.21	0.41
8:VI:152:LEU:O	8:VI:155:GLU:HG3	2.21	0.41
8:VI:154:MET:HE1	8:VI:194:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:VJ:175:VAL:HB	9:VJ:205:GLU:CD	2.46	0.41
9:VJ:257:MET:SD	9:VJ:350:LYS:NZ	2.94	0.41
31:W:139:PRO:HB2	31:W:141:PRO:HD2	2.02	0.41
30:W0:198:ARG:HB2	30:W0:198:ARG:NH1	2.36	0.41
30:W2:195:LEU:HD21	30:W2:215:LEU:HB3	2.02	0.41
30:W4:172:THR:O	30:W4:176:ARG:HG3	2.21	0.41
30:W4:305:ARG:HE	30:W4:305:ARG:HB3	1.69	0.41
8:WA:352:LYS:HA	8:WA:352:LYS:HD3	1.94	0.41
8:WA:416:GLY:O	8:WA:420:GLU:HG2	2.20	0.41
9:WB:317:PHE:CD2	9:WB:321:MET:HE1	2.56	0.41
8:WG:111:GLY:O	8:WG:115:VAL:HG13	2.20	0.41
8:WG:133:GLN:HB3	8:WG:252:LEU:HD13	2.03	0.41
8:WG:290:GLU:OE2	8:WG:290:GLU:N	2.54	0.41
8:WK:252:LEU:HD12	8:WK:252:LEU:H	1.85	0.41
8:WM:398:MET:HE2	8:WM:398:MET:HB3	1.96	0.41
8:WO:36:MET:HE2	8:WO:37:PRO:HD2	2.03	0.41
8:WO:313:MET:HE1	8:WO:435:VAL:HG11	2.03	0.41
9:WP:215:LEU:HG	9:WP:217:LEU:HG	2.02	0.41
31:X:647:ARG:HE	31:X:647:ARG:HB3	1.81	0.41
33:X4:320:GLY:O	33:X4:321:PHE:HB2	2.20	0.41
34:X8:206:VAL:HG21	34:X8:236:LEU:HD11	2.03	0.41
35:XC:59:ILE:HD11	35:XC:156:ILE:HD11	2.02	0.41
35:XC:171:LEU:HD23	35:XC:171:LEU:HA	1.73	0.41
35:XE:33:HIS:CD2	35:XE:50:GLU:HB3	2.56	0.41
35:XG:179:ALA:HA	35:XG:182:LYS:HB2	2.03	0.41
35:XH:103:PHE:HB3	35:XH:121:MET:HE1	2.02	0.41
31:Y:549:ILE:HD12	31:Y:742:VAL:HG22	2.03	0.41
36:Y2:109:GLU:C	36:Y2:111:SER:H	2.28	0.41
31:Z:438:GLY:HA2	31:Z:521:ILE:O	2.21	0.41
17:Z3:249:LYS:HE2	17:Z3:249:LYS:HB2	1.84	0.41
39:b:516:ASP:O	39:b:519:LYS:HG3	2.21	0.41
41:b2:231:ARG:HG2	41:b2:231:ARG:H	1.63	0.41
41:b2:401:TYR:CZ	41:b2:407:THR:HB	2.56	0.41
39:c:362:ARG:HA	39:c:365:LYS:HE2	2.01	0.41
39:d:475:ALA:O	39:d:478:LEU:HG	2.21	0.41
42:e:17:GLN:OE1	42:e:612:LEU:HD22	2.20	0.41
42:e:357:ARG:HG2	42:e:369:ARG:HG3	2.03	0.41
42:e:473:ASN:O	42:e:490:LEU:HD11	2.21	0.41
42:f:219:PHE:CG	42:f:231:LYS:HE3	2.56	0.41
42:g:74:LYS:HE2	42:g:74:LYS:HB3	1.92	0.41
42:g:593:MET:O	42:g:594:ARG:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:i1:9:GLN:H	45:i1:9:GLN:HG2	1.58	0.41
46:i2:1350:LYS:NZ	46:i2:1362:GLU:HG2	2.35	0.41
46:i2:1451:TRP:HA	46:i2:1454:MET:HB3	2.03	0.41
43:j:199:GLY:O	43:j:203:ASN:ND2	2.54	0.41
43:k:111:ALA:HB1	43:k:115:MET:HE1	2.03	0.41
49:y:59:TYR:HA	49:y:60:ARG:CZ	2.51	0.41
2:1:503:ARG:NE	9:HD:39:ASP:O	2.54	0.40
2:1:799:ASP:O	2:1:803:ASN:ND2	2.55	0.40
1:7:96:MET:HE1	8:JE:83:TYR:CZ	2.55	0.40
7:A1:311:LYS:HE2	7:A2:198:ILE:HG22	2.02	0.40
7:A1:361:GLN:NE2	7:A2:33:GLN:HE21	2.20	0.40
7:A4:370:LEU:HD23	7:A4:370:LEU:HA	1.94	0.40
9:AB:320:ARG:HD3	33:X4:89:GLN:HE22	1.86	0.40
9:AD:47:ILE:HG12	9:AD:51:TYR:HB2	2.02	0.40
9:AD:86:ARG:HG2	9:AD:88:ASP:H	1.87	0.40
8:AE:187:SER:O	8:AE:191:THR:HG23	2.21	0.40
9:AF:21:TRP:CE3	9:AF:24:ILE:HD11	2.56	0.40
9:AH:167:PHE:CE2	9:AH:233:MET:HG2	2.57	0.40
9:AH:267:MET:HE1	9:AH:373:ALA:HB3	2.03	0.40
9:AJ:267:MET:HE3	9:AJ:301:ALA:HB3	2.03	0.40
8:AK:163:LYS:HE3	8:AK:164:LYS:HD3	2.03	0.40
9:AN:55:THR:O	9:AN:58:LYS:HE2	2.20	0.40
9:AP:165:ASN:OD1	9:AP:198:GLU:HB2	2.21	0.40
9:AP:374:ILE:HD12	9:AP:374:ILE:HA	1.97	0.40
11:B1:219:ASP:OD1	11:B1:223:ARG:NH2	2.54	0.40
11:B2:188:GLY:HA3	28:Q2:139:TRP:CE2	2.57	0.40
11:B3:139:LYS:HE2	11:B3:139:LYS:HB3	1.81	0.40
11:B3:413:ARG:HD2	12:S1:50:TRP:HD1	1.87	0.40
11:B4:176:HIS:CE1	28:Q4:126:GLN:HE22	2.39	0.40
11:B4:303:ASP:O	11:B4:307:LYS:HG2	2.20	0.40
11:B5:281:TRP:O	11:B5:285:ASN:ND2	2.54	0.40
8:BE:28:HIS:HD2	8:BE:49:PHE:HA	1.85	0.40
8:BE:282:TYR:HB3	8:BE:283:HIS:CD2	2.56	0.40
8:BE:346:TRP:CD1	9:BF:391:ARG:HG3	2.56	0.40
8:BI:141:PHE:HB2	8:BI:173:PRO:HD3	2.02	0.40
9:BJ:93:GLY:N	9:BJ:112:LEU:HD11	2.36	0.40
8:BK:91:GLN:OE1	8:BK:121:ARG:NH2	2.55	0.40
8:BK:260:VAL:HB	9:BL:397:TRP:CH2	2.55	0.40
9:BL:23:VAL:HG12	9:BL:24:ILE:HD13	2.03	0.40
8:BM:332:ILE:HD11	8:BM:351:PHE:CG	2.56	0.40
8:BM:350:GLY:HA2	9:BN:179:VAL:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BM:395:PHE:CD2	8:BM:422:ARG:HD3	2.56	0.40
8:BO:311:LYS:H	8:BO:382:THR:HG22	1.85	0.40
9:BP:86:ARG:HG2	9:BP:88:ASP:OD1	2.21	0.40
12:C0:274:LEU:HD23	12:C0:274:LEU:HA	1.91	0.40
12:C1:478:ASN:OD1	12:C1:478:ASN:N	2.53	0.40
12:C4:283:TYR:HA	12:C5:397:GLN:NE2	2.36	0.40
9:CB:256:ASN:HA	8:CC:404:PHE:HE2	1.86	0.40
8:CG:80:THR:HA	40:a2:98:LYS:NZ	2.36	0.40
9:CJ:278:SER:HA	9:CJ:281:TYR:HD1	1.86	0.40
9:CL:251:ARG:HD2	8:CM:105:ARG:HH11	1.86	0.40
9:CL:354:CYS:SG	9:CL:355:ASP:N	2.94	0.40
8:CO:6:SER:HB3	8:CO:8:HIS:CD2	2.56	0.40
8:CQ:255:PHE:O	8:CQ:259:LEU:HB2	2.21	0.40
14:D0:74:SER:HB3	14:D1:328:GLU:OE2	2.20	0.40
14:D1:265:LEU:HD23	14:D1:265:LEU:HA	1.92	0.40
14:D2:74:SER:OG	14:D3:405:LEU:HD21	2.22	0.40
14:D2:230:ARG:HH22	8:LG:40:LYS:HA	1.86	0.40
14:D3:430:CYS:O	14:D3:434:ARG:HG3	2.20	0.40
9:DB:299:MET:H	9:DB:299:MET:HG2	1.75	0.40
8:DC:166:LYS:N	8:DC:199:ASP:OD2	2.50	0.40
9:DF:372:THR:HG21	9:DF:426:GLN:HB2	2.03	0.40
8:DI:53:PHE:HA	8:DI:62:VAL:O	2.21	0.40
8:DI:433:GLU:O	8:DI:437:VAL:HG23	2.21	0.40
8:DK:70:LEU:HA	8:DK:95:GLY:HA3	2.03	0.40
9:DL:86:ARG:HG2	9:DL:88:ASP:H	1.86	0.40
8:DO:133:GLN:HG3	8:DO:252:LEU:HD12	2.03	0.40
8:DO:167:LEU:HD23	8:DO:202:PHE:CE2	2.55	0.40
15:E:16:ASN:ND2	8:II:79:ARG:HD3	2.36	0.40
15:E:68:ASP:N	15:E:68:ASP:OD1	2.55	0.40
15:E:132:SER:OG	15:E:133:ASP:N	2.54	0.40
8:EA:215:ARG:NH2	8:EA:299:ALA:O	2.54	0.40
8:EC:102:ASN:ND2	8:EC:105:ARG:HG3	2.36	0.40
8:EC:262:TYR:OH	9:ED:391:ARG:O	2.39	0.40
8:EG:280:LYS:HA	8:EG:280:LYS:HD2	1.82	0.40
9:EH:84:ILE:HD12	9:EH:84:ILE:HA	1.87	0.40
9:EH:271:ALA:HB1	9:EH:289:LEU:HD22	2.02	0.40
8:EI:265:ILE:HG21	8:EI:313:MET:HE1	2.02	0.40
9:EJ:73:MET:SD	9:EJ:73:MET:N	2.88	0.40
9:EJ:133:PHE:HB2	9:EJ:164:MET:CE	2.51	0.40
8:EM:36:MET:HG2	8:EM:61:HIS:CE1	2.56	0.40
8:EO:219:ILE:HG12	17:O7:34:THR:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FA:114:ILE:O	8:FA:118:VAL:HG23	2.21	0.40
8:FC:168:GLU:HB3	8:FC:201:ALA:HA	2.03	0.40
9:FF:8:GLN:HB3	9:FF:65:LEU:HA	2.03	0.40
9:FH:1:MET:CE	9:FH:2:ARG:H	2.34	0.40
9:FJ:31:ASP:OD1	9:FJ:35:THR:N	2.55	0.40
9:FJ:54:ALA:HA	9:GJ:283:ALA:HB2	2.03	0.40
9:FN:7:LEU:HB2	9:FN:135:LEU:HA	2.03	0.40
9:FN:126:SER:HA	36:Y2:51:TYR:HE1	1.86	0.40
8:FO:60:LYS:HA	8:FO:60:LYS:HD3	1.78	0.40
9:GB:293:MET:HB2	9:GB:293:MET:HE2	1.88	0.40
9:GF:133:PHE:HB2	9:GF:164:MET:SD	2.61	0.40
8:GG:2:ARG:HB2	8:GG:242:LEU:HD21	2.02	0.40
8:GG:176:GLN:N	8:GG:176:GLN:OE1	2.54	0.40
8:GG:287:SER:O	8:GG:291:ILE:HG12	2.21	0.40
9:GH:337:ASN:HB3	9:GH:340:TYR:HD2	1.86	0.40
8:GI:91:GLN:CA	8:GI:121:ARG:HH12	2.32	0.40
9:GN:258:VAL:HB	8:GO:407:TRP:HZ2	1.85	0.40
9:HB:290:THR:HA	9:HB:293:MET:HB3	2.02	0.40
9:HD:300:MET:H	9:HD:300:MET:HG2	1.73	0.40
8:HG:64:ARG:NE	8:HG:129:CYS:SG	2.91	0.40
8:HG:90:GLU:OE1	8:IG:280:LYS:HE2	2.21	0.40
8:HG:235:VAL:HA	8:HG:238:ILE:HD12	2.02	0.40
8:HG:304:LYS:HA	8:HG:304:LYS:HD3	1.65	0.40
9:HH:123:GLU:H	9:HH:123:GLU:HG2	1.76	0.40
9:HH:279:GLN:HE21	9:HH:279:GLN:HB3	1.61	0.40
9:HL:187:LEU:HD21	9:HL:408:PHE:CD1	2.55	0.40
8:HM:201:ALA:C	8:HM:202:PHE:HD1	2.28	0.40
8:HO:130:THR:HG23	8:HO:131:GLY:H	1.86	0.40
9:HP:36:TYR:CD2	9:HP:44:LEU:HD22	2.56	0.40
8:IA:36:MET:HG3	8:IA:61:HIS:NE2	2.36	0.40
9:IB:324:LYS:HE3	8:IC:210:TYR:CD1	2.56	0.40
9:ID:242:PHE:HB3	9:ID:356:ILE:CD1	2.45	0.40
9:IF:134:GLN:OE1	9:IF:134:GLN:HA	2.21	0.40
9:IF:232:THR:O	9:IF:236:VAL:HG23	2.22	0.40
9:IF:287:PRO:HB3	36:Y1:198:PRO:HG2	2.03	0.40
9:IF:415:MET:HE3	9:IF:415:MET:HB3	1.76	0.40
8:IG:352:LYS:NZ	9:IH:179:VAL:HG22	2.36	0.40
9:IH:84:ILE:HD12	9:IH:84:ILE:HA	1.82	0.40
9:IH:155:ILE:HA	9:IH:158:GLU:OE2	2.21	0.40
9:IJ:122:LYS:HA	9:IJ:122:LYS:HD3	1.92	0.40
9:IJ:253:LEU:O	9:IJ:257:MET:HE2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IK:102:ASN:HB3	8:IK:105:ARG:HB2	2.02	0.40
9:IL:12:CYS:SG	9:IL:138:SER:HB3	2.61	0.40
9:IN:68:LEU:HD23	9:IN:68:LEU:HA	1.88	0.40
9:IP:305:PRO:HA	9:IP:373:ALA:HB2	2.04	0.40
19:J2:50:LEU:HA	19:J2:50:LEU:HD12	1.76	0.40
19:J2:177:THR:HB	9:OF:217:LEU:HD11	2.03	0.40
19:J3:31:PRO:HA	19:J3:32:PRO:HD3	1.91	0.40
19:J3:251:PHE:H	19:J3:257:ARG:HH12	1.69	0.40
8:JE:10:GLY:O	8:JE:14:VAL:HG23	2.21	0.40
8:JE:345:ASP:OD2	9:JF:391:ARG:NH2	2.54	0.40
8:JG:431:ASP:O	8:JG:435:VAL:HG23	2.22	0.40
9:JH:309:ARG:H	9:JH:372:THR:HB	1.86	0.40
8:JI:100:ALA:N	50:JI:501:GTP:O2G	2.54	0.40
8:JI:119:LEU:HD12	8:JI:119:LEU:HA	1.75	0.40
8:JI:227:LEU:O	8:JI:231:ILE:HG13	2.21	0.40
9:JJ:5:VAL:HG22	9:JJ:62:ARG:HD2	2.03	0.40
9:JJ:86:ARG:HG2	9:JJ:88:ASP:H	1.86	0.40
9:JJ:391:ARG:HD3	9:JJ:391:ARG:HA	1.84	0.40
9:JL:11:GLN:HG3	9:JL:72:THR:HG21	2.03	0.40
8:JM:391:LEU:HD12	8:JM:394:LYS:HD3	2.03	0.40
9:JN:198:GLU:OE1	9:JN:200:TYR:OH	2.24	0.40
9:JN:221:THR:HG23	9:JN:223:GLY:H	1.86	0.40
8:JO:199:ASP:O	8:JO:260:VAL:HG21	2.21	0.40
8:JQ:259:LEU:HD12	8:JQ:259:LEU:HA	1.95	0.40
8:JQ:319:TYR:HB2	8:JQ:355:ILE:HD13	2.03	0.40
20:K2:65:GLU:OE1	39:d:433:HIS:HA	2.20	0.40
9:KD:323:MET:HA	9:KD:326:VAL:HB	2.02	0.40
8:KE:225:THR:O	8:KE:229:ARG:HG3	2.21	0.40
8:KE:238:ILE:HD11	8:KE:378:LEU:HD11	2.03	0.40
9:KH:20:PHE:HA	9:KH:230:SER:OG	2.21	0.40
9:KJ:414:ASN:HD22	41:b4:254:LYS:NZ	2.19	0.40
8:KM:438:ASP:OD1	8:KM:438:ASP:N	2.39	0.40
8:KO:111:GLY:O	8:KO:115:VAL:HG23	2.21	0.40
21:L1:103:GLN:HG3	8:WG:219:ILE:HG23	2.03	0.40
9:LB:77:ARG:NH1	9:LB:83:GLN:HA	2.36	0.40
9:LH:12:CYS:SG	9:LH:138:SER:HB2	2.61	0.40
9:LH:268:PRO:HG2	9:LH:300:MET:HG3	2.03	0.40
8:LI:407:TRP:O	8:LI:411:GLU:HG2	2.20	0.40
8:LK:201:ALA:O	8:LK:268:PRO:HD2	2.21	0.40
8:LK:392:ASP:OD2	8:LK:422:ARG:NH1	2.54	0.40
9:LL:146:GLY:O	9:LL:149:THR:OG1	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LL:198:GLU:HG3	9:LL:266:PHE:CE2	2.56	0.40
9:LL:343:GLU:N	9:LL:343:GLU:OE1	2.55	0.40
8:LM:168:GLU:HB3	8:LM:200:CYS:O	2.21	0.40
9:LN:117:LEU:HA	9:LN:120:VAL:HG22	2.04	0.40
8:MC:147:SER:O	8:MC:151:SER:HB3	2.21	0.40
9:MD:276:ARG:HH22	23:P:325:GLU:HB3	1.86	0.40
9:MH:252:LYS:HA	8:MI:100:ALA:HB1	2.03	0.40
8:MI:328:VAL:HG11	8:MI:353:VAL:HG11	2.03	0.40
8:MO:371:VAL:HG12	8:MO:373:ARG:H	1.84	0.40
15:N2:145:VAL:HG23	15:N2:148:GLN:HB2	2.03	0.40
8:NA:102:ASN:H	8:NA:144:GLY:HA3	1.86	0.40
9:NB:170:VAL:HG11	9:NB:377:LEU:HD11	2.03	0.40
9:NB:404:ASP:N	9:NB:404:ASP:OD1	2.41	0.40
8:NC:166:LYS:HG3	8:NC:198:SER:HA	2.02	0.40
9:ND:186:THR:HG21	9:ND:385:PHE:CZ	2.56	0.40
9:ND:403:MET:HE3	9:ND:403:MET:HB3	1.83	0.40
8:NE:381:THR:OG1	8:NE:382:THR:N	2.55	0.40
9:NF:12:CYS:HB2	52:NF:502:GDP:O4'	2.22	0.40
9:NF:121:ARG:NH2	36:Y4:123:SER:O	2.55	0.40
9:NF:158:GLU:C	9:NF:159:TYR:HD1	2.30	0.40
8:NG:262:TYR:OH	9:NH:391:ARG:NH1	2.54	0.40
9:NH:189:VAL:HG11	9:NH:415:MET:SD	2.61	0.40
8:NI:257:THR:O	9:NJ:397:TRP:CZ3	2.63	0.40
9:NJ:6:HIS:HE1	9:NJ:8:GLN:OE1	2.03	0.40
9:NJ:20:PHE:CD1	9:NJ:233:MET:HG3	2.57	0.40
9:NJ:265:PHE:C	9:NJ:266:PHE:HD1	2.28	0.40
8:NM:79:ARG:HG3	8:NM:92:LEU:HD12	2.03	0.40
9:NN:147:MET:O	9:NN:151:LEU:HG	2.20	0.40
8:NO:20:CYS:HB3	8:NO:24:TYR:CZ	2.56	0.40
9:NP:392:LYS:HE2	9:NP:395:LEU:HB3	2.03	0.40
24:O1:128:LEU:HD23	24:O1:165:VAL:HB	2.02	0.40
24:O4:158:LYS:HA	24:O4:158:LYS:HD3	1.70	0.40
25:O5:281:ARG:HD2	25:O5:281:ARG:HH11	1.70	0.40
25:O5:372:LYS:HB3	25:O5:372:LYS:HE3	1.71	0.40
17:O7:55:VAL:HG22	17:O7:56:LEU:H	1.85	0.40
17:O9:103:GLN:NE2	30:W5:52:ARG:HB2	2.35	0.40
8:OC:111:GLY:O	8:OC:115:VAL:HG23	2.21	0.40
8:OE:317:MET:CE	8:OE:351:PHE:HD1	2.33	0.40
8:OI:49:PHE:CE1	8:OI:55:GLU:HB2	2.56	0.40
9:OJ:36:TYR:HE2	9:OJ:44:LEU:HB3	1.86	0.40
9:OJ:166:THR:HG21	9:OJ:192:LEU:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:OK:35:GLN:HG2	8:OK:60:LYS:NZ	2.37	0.40
8:OK:147:SER:OG	8:OK:190:THR:OG1	2.24	0.40
8:OK:208:ALA:O	8:OK:212:ILE:HG22	2.21	0.40
9:OL:207:LEU:HD12	9:OL:225:LEU:HD23	2.01	0.40
8:OM:288:VAL:HA	8:OM:291:ILE:HD11	2.03	0.40
8:OM:324:VAL:HG12	8:OM:326:LYS:H	1.85	0.40
8:OO:316:CYS:SG	8:OO:318:LEU:HD11	2.61	0.40
9:OP:398:TYR:HB3	9:OP:403:MET:CE	2.52	0.40
27:P6:43:LYS:O	27:P6:47:GLN:HG3	2.22	0.40
8:PC:185:TYR:O	8:PC:189:LEU:HG	2.22	0.40
9:PD:285:THR:O	9:PD:363:MET:HE1	2.20	0.40
9:PH:204:ASN:OD1	9:PH:205:GLU:N	2.54	0.40
9:PJ:346:PRO:HG3	8:PK:394:LYS:HB2	2.03	0.40
8:PK:145:THR:O	8:PK:149:PHE:HB3	2.21	0.40
9:PN:261:PRO:HG3	8:PO:406:HIS:CD2	2.56	0.40
8:PO:34:GLY:HA3	8:PO:60:LYS:HE3	2.03	0.40
9:PP:31:ASP:HB3	9:PP:37:HIS:CD2	2.56	0.40
28:Q2:152:THR:O	28:Q2:152:THR:HG22	2.21	0.40
9:QB:31:ASP:HB3	9:QB:37:HIS:CD2	2.56	0.40
9:QB:261:PRO:HG3	8:QC:406:HIS:CD2	2.56	0.40
8:QC:83:TYR:HB3	8:QC:86:LEU:HB3	2.03	0.40
8:QC:152:LEU:HD12	8:QC:153:LEU:N	2.36	0.40
8:QC:259:LEU:HD12	8:QC:259:LEU:HA	1.92	0.40
8:QE:7:ILE:HD11	8:QE:135:PHE:CD1	2.55	0.40
9:QF:336:LYS:HD3	9:QF:336:LYS:HA	1.89	0.40
9:QJ:68:LEU:O	9:QJ:68:LEU:HD12	2.20	0.40
9:QJ:139:LEU:HD21	9:QJ:168:SER:HB2	2.04	0.40
9:QJ:183:TYR:O	9:QJ:187:LEU:HG	2.21	0.40
8:QK:231:ILE:HA	8:QK:234:ILE:HG12	2.03	0.40
9:QL:207:LEU:CD2	9:QL:225:LEU:HG	2.46	0.40
11:R0:122:SER:O	11:R0:124:ARG:NH1	2.54	0.40
11:R1:8:PRO:HG2	14:T5:330:THR:HG21	2.03	0.40
11:R1:113:ALA:O	11:R1:117:LEU:HD13	2.21	0.40
11:R2:331:ARG:HD3	11:R2:336:TYR:CE2	2.56	0.40
11:R3:330:CYS:SG	11:R4:218:TRP:HB2	2.61	0.40
11:R4:64:LEU:HD23	11:R4:64:LEU:HA	1.83	0.40
11:R4:274:SER:O	11:R4:278:GLU:HG2	2.21	0.40
9:RD:206:ALA:HB3	9:RD:300:MET:O	2.20	0.40
8:RE:268:PRO:HA	8:RE:380:ASN:HA	2.02	0.40
9:RF:1:MET:HE3	9:RF:1:MET:HB3	2.00	0.40
8:RK:56:THR:HG21	8:RK:60:LYS:NZ	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:RK:171:ILE:HD13	8:RK:171:ILE:HA	1.89	0.40
9:RN:31:ASP:OD1	9:RN:31:ASP:N	2.54	0.40
8:RO:137:ILE:CD1	8:RO:168:GLU:HG2	2.51	0.40
8:RO:141:PHE:HD2	8:RO:187:SER:HA	1.85	0.40
9:RP:221:THR:N	9:RP:224:ASP:OD2	2.52	0.40
12:S0:146:LEU:HB3	12:S0:272:GLN:HB3	2.02	0.40
12:S1:48:LEU:HD22	12:S7:232:ARG:HG3	2.03	0.40
12:S1:146:LEU:HD12	12:S1:146:LEU:HA	1.90	0.40
12:S1:291:ASP:OD1	12:S2:413:ARG:NH1	2.54	0.40
12:S1:403:ARG:NH1	12:S1:417:GLN:OE1	2.44	0.40
12:S2:287:VAL:HG12	12:S6:60:TYR:OH	2.21	0.40
12:S3:177:ILE:HG21	12:S3:322:ARG:HG2	2.03	0.40
12:S6:351:ILE:HD13	12:S6:470:GLN:HG2	2.02	0.40
12:S6:393:LEU:HG	12:S6:427:VAL:HG11	2.02	0.40
12:S7:164:LEU:HD23	12:S7:164:LEU:HA	1.74	0.40
12:S8:160:ILE:HG23	12:S8:254:LEU:CD1	2.52	0.40
12:S9:347:PHE:HE2	12:S9:472:LYS:NZ	2.18	0.40
9:SB:304:ASP:HB3	9:SB:307:HIS:NE2	2.36	0.40
8:SE:313:MET:HE3	8:SE:313:MET:N	2.36	0.40
9:SF:17:GLY:O	9:SF:21:TRP:N	2.51	0.40
9:SF:316:VAL:O	9:SF:366:THR:N	2.45	0.40
9:SH:272:PRO:HG3	9:SH:364:SER:HB2	2.02	0.40
8:SI:215:ARG:NH2	8:SI:300:ASN:OD1	2.46	0.40
9:SJ:118:ASP:OD1	9:SJ:121:ARG:NH2	2.48	0.40
8:SM:112:LYS:HE2	8:SM:112:LYS:HB2	1.82	0.40
8:SM:239:THR:HB	8:SM:243:ARG:NH2	2.36	0.40
25:T:109:ILE:HD12	25:T:109:ILE:HA	1.96	0.40
14:T5:372:ASN:HA	14:T5:375:PHE:CD2	2.56	0.40
8:TA:25:CYS:SG	8:TA:30:ILE:HB	2.61	0.40
8:TC:227:LEU:O	8:TC:231:ILE:HG12	2.21	0.40
9:TF:293:MET:HE3	9:TF:367:PHE:HB3	2.02	0.40
8:TI:234:ILE:O	8:TI:238:ILE:HG12	2.21	0.40
8:TI:241:SER:HB3	8:TI:250:VAL:H	1.86	0.40
8:TK:53:PHE:O	8:TK:64:ARG:NH1	2.53	0.40
9:TL:131:GLN:OE1	9:TL:251:ARG:NH2	2.54	0.40
9:TL:299:MET:HG3	9:TL:301:ALA:H	1.86	0.40
9:TN:22:GLU:HA	9:TN:81:PHE:CD2	2.55	0.40
25:U:442:TYR:CZ	25:U:487:PRO:HD3	2.55	0.40
30:U1:93:ARG:NH1	30:U1:97:ARG:HH11	2.19	0.40
30:U1:221:LEU:HD23	30:U1:222:LEU:HD23	2.02	0.40
30:U1:472:MET:N	30:U1:472:MET:HE2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U3:462:LEU:HD23	30:U3:462:LEU:HA	1.86	0.40
30:U6:176:ARG:HE	30:U6:325:PHE:HE2	1.69	0.40
30:U6:399:ARG:NH2	30:U6:413:GLN:HB2	2.36	0.40
30:U7:188:LEU:HD13	30:U7:222:LEU:HB2	2.01	0.40
30:U7:317:LEU:O	30:U7:320:GLU:HG3	2.20	0.40
8:UA:32:PRO:O	8:UA:86:LEU:HD13	2.21	0.40
8:UE:171:ILE:HD13	8:UE:171:ILE:HA	1.90	0.40
9:UF:268:PRO:HG2	9:UF:300:MET:HE2	2.03	0.40
9:UF:403:MET:HE1	9:UF:408:PHE:CZ	2.56	0.40
8:UG:372:GLN:HG3	39:c:311:MET:CE	2.51	0.40
9:UH:258:VAL:HB	8:UI:407:TRP:HZ2	1.85	0.40
8:UI:161:TYR:O	8:UI:166:LYS:NZ	2.54	0.40
9:UJ:24:ILE:HD12	9:UJ:50:TYR:CD1	2.56	0.40
8:UK:76:ASP:HA	8:UK:79:ARG:HB2	2.02	0.40
30:V0:373:ASN:O	30:V0:376:MET:HG3	2.22	0.40
30:V1:368:ILE:HG12	30:V1:444:LEU:HB3	2.03	0.40
30:V7:406:GLU:OE1	30:V7:406:GLU:N	2.51	0.40
8:VA:17:GLY:HA2	8:VA:20:CYS:SG	2.61	0.40
9:VB:292:GLN:HG3	9:VB:297:LYS:NZ	2.36	0.40
9:VB:294:PHE:CE2	9:VB:333:VAL:HG11	2.56	0.40
9:VD:299:MET:H	9:VD:299:MET:HG2	1.62	0.40
9:VH:170:VAL:HG21	9:VH:201:CYS:HB2	2.02	0.40
9:VH:253:LEU:HD12	9:VH:254:ALA:N	2.36	0.40
9:VH:361:LEU:HD12	9:VH:361:LEU:HA	1.87	0.40
8:VK:172:TYR:CG	8:VK:203:MET:HE2	2.56	0.40
9:VL:65:LEU:HD12	9:VL:89:ASN:ND2	2.36	0.40
9:VL:147:MET:HE3	9:VL:147:MET:O	2.21	0.40
8:VM:79:ARG:NH2	8:VM:92:LEU:O	2.54	0.40
8:VO:392:ASP:O	8:VO:396:ASP:HB2	2.22	0.40
31:W:561:GLU:HB3	30:W4:378:LEU:HD21	2.03	0.40
31:W:667:LEU:HA	31:W:668:PRO:HD3	1.88	0.40
30:W0:309:ASN:C	30:W0:311:ARG:N	2.74	0.40
30:W2:402:ARG:NH2	30:W2:413:GLN:OE1	2.54	0.40
30:W4:209:ASP:O	30:W4:213:LYS:NZ	2.54	0.40
30:W5:162:ARG:NH1	30:W5:311:ARG:HH22	2.14	0.40
30:W5:385:LYS:HE2	31:X:568:ALA:HB1	2.02	0.40
30:W7:218:GLU:HG2	30:W7:335:GLN:HG3	2.03	0.40
30:W7:470:MET:HE3	30:W7:470:MET:HA	2.03	0.40
8:WA:25:CYS:O	8:WA:30:ILE:N	2.47	0.40
8:WA:167:LEU:HD21	8:WA:255:PHE:HZ	1.86	0.40
9:WB:140:GLY:HA3	9:WB:181:GLU:CD	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:WE:130:THR:OG1	8:WE:131:GLY:N	2.54	0.40
8:WE:345:ASP:OD2	9:WF:390:ARG:NH2	2.55	0.40
8:WG:141:PHE:HD1	8:WG:187:SER:HA	1.86	0.40
8:WG:317:MET:HE3	8:WG:351:PHE:HD1	1.86	0.40
8:WK:260:VAL:HB	9:WL:397:TRP:HZ2	1.86	0.40
9:WL:73:MET:O	9:WL:77:ARG:HG3	2.21	0.40
8:WM:204:VAL:HG13	8:WM:302:MET:HB3	2.03	0.40
34:X7:196:TRP:C	34:X7:196:TRP:CD1	2.99	0.40
35:XH:77:VAL:HG22	35:XH:133:GLN:OE1	2.20	0.40
31:Y:337:ASP:OD1	31:Y:337:ASP:N	2.55	0.40
36:Y1:41:HIS:CD2	36:Y1:47:ARG:HA	2.57	0.40
36:Y2:247:THR:O	36:Y2:247:THR:OG1	2.32	0.40
36:Y3:24:SER:OG	36:Y3:25:SER:N	2.54	0.40
37:YB:59:CYS:HB2	37:YB:65:PHE:CE2	2.56	0.40
37:YD:203:GLU:OE1	37:YD:203:GLU:N	2.51	0.40
37:YD:231:MET:HE3	37:YD:231:MET:HA	2.03	0.40
40:a1:100:LEU:C	40:a1:102:GLU:H	2.28	0.40
41:b2:262:HIS:CD2	41:b2:280:THR:HG22	2.56	0.40
41:b2:365:MET:N	41:b2:365:MET:SD	2.94	0.40
41:b3:217:MET:HA	41:b3:220:SER:HB3	2.01	0.40
41:b3:246:GLU:HG3	41:b3:247:LEU:HD12	2.03	0.40
39:c:403:ARG:HG3	39:c:404:ARG:NE	2.36	0.40
39:c:475:ALA:O	39:c:479:ARG:HG2	2.21	0.40
39:d:417:GLU:HB2	39:d:421:ARG:HH21	1.86	0.40
42:e:227:GLY:HA3	42:e:248:LYS:HB3	2.03	0.40
43:h:84:LYS:HD2	43:h:85:LYS:H	1.86	0.40
43:h:124:ILE:HG13	43:h:134:HIS:O	2.21	0.40
44:h3:102:ARG:HE	44:h3:105:VAL:CG1	2.34	0.40
46:i2:1329:GLU:O	46:i2:1333:ARG:N	2.55	0.40
4:j1:212:ARG:HG2	4:j1:222:ASN:O	2.20	0.40
43:k:167:LYS:HZ2	43:k:171:GLU:HG3	1.84	0.40
45:m:77:ALA:HB2	45:m:109:LEU:HD11	2.02	0.40
45:n:73:LYS:HD2	45:n:73:LYS:HA	1.98	0.40
47:p:319:ARG:O	47:p:322:ARG:HG3	2.21	0.40
47:p:486:PRO:HB2	47:p:487:MET:HE2	2.03	0.40
2:1:696:GLU:OE2	5:8:26:THR:N	2.55	0.40
3:3:165:ARG:NH2	9:GL:219:THR:O	2.53	0.40
4:5:55:GLU:HG2	4:5:68:ARG:HA	2.03	0.40
5:8:117:ARG:HB3	5:8:126:TRP:HE3	1.86	0.40
7:A2:4:LEU:HD12	7:A2:5:LEU:O	2.22	0.40
7:A2:269:LYS:HE2	7:A2:269:LYS:HB3	1.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A3:372:LEU:O	7:A3:376:ILE:HG13	2.21	0.40
8:AC:183:GLU:HA	8:AC:186:ASN:HD22	1.86	0.40
9:AD:2:ARG:HG2	9:AD:131:GLN:HE21	1.87	0.40
8:AE:11:GLN:O	8:AE:15:GLN:HG3	2.21	0.40
8:AE:317:MET:HE1	8:AE:377:MET:HG3	2.03	0.40
9:AF:47:ILE:HG12	9:AF:51:TYR:HD2	1.86	0.40
9:AF:147:MET:HE2	9:AF:147:MET:HB3	1.94	0.40
9:AF:262:ARG:NH1	9:AF:421:GLU:OE2	2.54	0.40
9:AF:287:PRO:HB3	9:AF:329:GLN:HE22	1.86	0.40
8:AG:173:PRO:HB3	8:AG:183:GLU:OE2	2.21	0.40
9:AH:375:GLN:O	9:AH:379:LYS:NZ	2.53	0.40
8:AI:278:ALA:HA	8:AI:369:ALA:HB2	2.01	0.40
9:AL:207:LEU:HB3	9:AL:225:LEU:HG	2.03	0.40
8:AM:254:GLU:CD	9:AN:98:GLY:HA2	2.47	0.40
8:AM:258:ASN:HD22	8:AM:352:LYS:HB2	1.85	0.40
8:AM:332:ILE:HD13	8:AM:332:ILE:HA	1.89	0.40
8:AM:372:GLN:OE1	8:AM:373:ARG:NH1	2.54	0.40
8:AO:67:PHE:HE2	8:AO:87:PHE:CD2	2.39	0.40
8:AO:318:LEU:HD23	8:AO:318:LEU:HA	1.92	0.40
8:AO:422:ARG:NH1	8:AO:426:ALA:HB2	2.36	0.40
11:B2:152:GLN:HE22	14:D2:429:LYS:HE3	1.79	0.40
11:B2:384:LEU:HD23	11:B2:384:LEU:HA	1.86	0.40
8:BC:109:THR:C	8:BC:112:LYS:HZ1	2.29	0.40
8:BC:122:ILE:HD13	8:BC:157:LEU:HD11	2.04	0.40
8:BE:166:LYS:N	8:BE:199:ASP:OD2	2.49	0.40
8:BE:326:LYS:HA	8:BE:329:ASN:HD21	1.86	0.40
9:BF:162:ARG:NH2	8:BG:97:GLU:OE2	2.54	0.40
9:BF:304:ASP:HB3	9:BF:307:HIS:ND1	2.37	0.40
8:BG:221:ARG:HD2	17:J:231:VAL:O	2.21	0.40
8:BG:377:MET:HE2	8:BG:377:MET:HB3	1.91	0.40
9:BH:215:LEU:HB3	9:BH:217:LEU:HG	2.02	0.40
8:BI:118:VAL:HG11	8:BI:153:LEU:HD11	2.02	0.40
8:BI:226:ASN:OD1	8:BI:229:ARG:NH2	2.50	0.40
8:BK:7:ILE:HG21	8:BK:7:ILE:HD13	1.82	0.40
8:BK:219:ILE:HB	8:BK:222:PRO:HG3	2.03	0.40
8:BM:221:ARG:NE	17:M:231:VAL:O	2.45	0.40
10:C:238:LYS:HD2	8:GO:59:GLY:N	2.36	0.40
9:CB:279:GLN:OE1	9:CB:280:GLN:N	2.54	0.40
9:CF:213:ARG:HH21	9:CF:297:LYS:HG2	1.85	0.40
9:CH:374:ILE:HD12	9:CH:374:ILE:HA	1.86	0.40
9:CL:190:HIS:O	9:CL:194:GLU:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:30:ILE:HD11	9:CN:34:GLY:C	2.46	0.40
9:CN:173:PRO:HD3	9:CN:380:ARG:CZ	2.51	0.40
8:CO:28:HIS:NE2	8:CO:48:SER:O	2.54	0.40
9:CP:150:LEU:O	9:CP:154:LYS:HG2	2.21	0.40
9:CP:374:ILE:HD12	9:CP:374:ILE:HA	1.84	0.40
14:D0:71:ARG:NH1	14:D1:324:LYS:HE3	2.36	0.40
14:D4:81:SER:HA	14:D5:394:LYS:CE	2.51	0.40
9:DB:19:LYS:HA	9:DB:19:LYS:HD2	1.88	0.40
9:DB:194:GLU:H	9:DB:194:GLU:HG2	1.76	0.40
8:DC:290:GLU:OE1	8:DC:290:GLU:N	2.55	0.40
8:DE:121:ARG:HA	8:DE:121:ARG:NE	2.37	0.40
9:DF:257:MET:HE2	9:DF:257:MET:HA	2.02	0.40
9:DF:269:GLY:C	9:DF:293:MET:HE1	2.45	0.40
9:DF:278:SER:HB3	9:DF:282:ARG:HH21	1.86	0.40
8:DG:36:MET:HG3	8:DG:61:HIS:NE2	2.36	0.40
8:DG:102:ASN:ND2	8:DG:105:ARG:HG3	2.36	0.40
8:DI:115:VAL:HG22	8:DI:152:LEU:HD13	2.02	0.40
9:DJ:77:ARG:NH2	9:DJ:87:PRO:HG3	2.37	0.40
9:DJ:406:MET:HE1	9:DJ:410:GLU:CD	2.45	0.40
9:DL:180:VAL:HG22	9:DL:183:TYR:HB2	2.03	0.40
9:DL:347:ASN:O	8:DM:181:VAL:HG22	2.21	0.40
9:DL:404:ASP:OD1	9:DL:404:ASP:N	2.34	0.40
8:DM:178:SER:OG	8:DM:180:ALA:O	2.34	0.40
8:DQ:172:TYR:HB2	8:DQ:203:MET:HB3	2.01	0.40
15:E:264:LYS:H	15:E:264:LYS:HG3	1.62	0.40
8:EA:167:LEU:HD23	8:EA:202:PHE:HE2	1.86	0.40
8:EA:269:LEU:HD22	8:EA:303:VAL:HG11	2.01	0.40
9:EB:388:MET:HE2	9:EB:393:ALA:HB3	2.02	0.40
8:EC:281:ALA:HA	8:EC:284:GLU:HG2	2.03	0.40
9:ED:139:LEU:HA	9:ED:145:SER:HB2	2.04	0.40
9:ED:156:ARG:NH2	9:ED:160:PRO:O	2.54	0.40
8:EE:335:ILE:HD13	8:EE:335:ILE:HA	1.98	0.40
8:EE:395:PHE:CD2	8:EE:422:ARG:HD3	2.55	0.40
9:EF:327:ASP:HA	9:EF:330:MET:SD	2.61	0.40
9:EH:330:MET:HB2	9:EH:349:VAL:HG11	2.02	0.40
8:EM:306:ASP:OD2	8:EM:308:ARG:NH1	2.50	0.40
8:EM:335:ILE:HD11	8:EM:351:PHE:CZ	2.56	0.40
9:EN:45:GLU:HG3	9:EN:46:ARG:HG2	2.01	0.40
8:EO:171:ILE:HD13	8:EO:171:ILE:HA	1.93	0.40
8:EO:341:ILE:HD13	8:EO:341:ILE:HA	1.85	0.40
8:FC:191:THR:O	8:FC:195:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FC:207:GLU:O	8:FC:210:TYR:HB2	2.22	0.40
9:FJ:66:VAL:HG11	9:FJ:147:MET:HE2	2.03	0.40
8:FM:335:ILE:HD13	8:FM:335:ILE:HA	1.99	0.40
9:FN:320:ARG:C	9:FN:321:MET:HE3	2.46	0.40
9:FN:324:LYS:HB3	9:FN:324:LYS:HE2	1.86	0.40
8:FO:326:LYS:H	8:FO:326:LYS:HG3	1.64	0.40
8:GA:33:ASP:OD2	8:GA:33:ASP:N	2.53	0.40
8:GA:253:THR:HA	8:GA:256:GLN:HG2	2.03	0.40
9:GD:68:LEU:HD23	9:GD:68:LEU:HA	1.91	0.40
9:GD:210:ILE:O	9:GD:214:THR:N	2.54	0.40
8:GE:285:GLN:HE22	8:GE:287:SER:HB3	1.84	0.40
9:GH:294:PHE:HB3	36:Y2:163:ILE:HD13	2.03	0.40
9:GH:329:GLN:OE1	36:Y2:161:PHE:HE1	2.04	0.40
8:GI:1:MET:HE1	8:GI:2:ARG:NH1	2.37	0.40
8:GI:51:THR:HG22	8:GI:52:PHE:CD1	2.55	0.40
8:GI:194:THR:O	8:GI:266:HIS:NE2	2.50	0.40
8:GI:308:ARG:H	8:GI:308:ARG:HG3	1.69	0.40
9:GJ:358:PRO:HG2	9:GJ:361:LEU:HB3	2.03	0.40
8:GM:155:GLU:HA	8:GM:197:HIS:CD2	2.56	0.40
9:GN:161:ASP:O	9:GN:251:ARG:NH2	2.54	0.40
8:GO:101:ASN:HA	8:GO:144:GLY:H	1.86	0.40
8:HA:101:ASN:HA	8:HA:144:GLY:N	2.36	0.40
9:HB:7:LEU:HD21	9:HB:120:VAL:HG23	2.03	0.40
9:HB:217:LEU:HD22	9:HB:220:PRO:HB3	2.03	0.40
8:HC:88:HIS:HD2	8:IC:283:HIS:ND1	2.19	0.40
9:HD:68:LEU:HD23	9:HD:68:LEU:HA	1.83	0.40
8:HE:108:TYR:HA	8:HE:112:LYS:HE3	2.03	0.40
8:HE:317:MET:HE2	8:HE:317:MET:N	2.36	0.40
9:HF:173:PRO:HG2	9:HF:174:LYS:HD3	2.01	0.40
9:HF:308:GLY:HA3	9:HF:372:THR:HB	2.03	0.40
9:HF:361:LEU:HD12	9:HF:361:LEU:HA	1.88	0.40
8:HG:7:ILE:HB	8:HG:137:ILE:HG12	2.03	0.40
8:HG:154:MET:HG3	8:HG:197:HIS:HB3	2.03	0.40
9:HH:257:MET:SD	9:HH:312:THR:OG1	2.65	0.40
8:HI:158:SER:HA	8:HI:166:LYS:NZ	2.36	0.40
8:HI:207:GLU:HG2	8:HI:304:LYS:NZ	2.33	0.40
8:HK:119:LEU:HA	8:HK:122:ILE:HB	2.02	0.40
8:HK:205:ASP:OD2	8:HK:205:ASP:N	2.45	0.40
9:HL:139:LEU:HD23	9:HL:168:SER:HB2	2.03	0.40
8:HM:157:LEU:HD23	8:HM:157:LEU:HA	1.80	0.40
9:HN:43:GLN:HE21	9:HN:43:GLN:HB2	1.71	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HN:122:LYS:HA	36:Y1:54:ARG:NH1	2.36	0.40
9:HN:173:PRO:HG3	9:HN:380:ARG:HD3	2.03	0.40
9:HN:257:MET:HE2	9:HN:257:MET:HB2	1.84	0.40
9:HN:310:TYR:CD1	9:HN:371:SER:HB2	2.56	0.40
9:HN:372:THR:HA	9:HN:422:TYR:CE1	2.44	0.40
8:HO:97:GLU:CG	8:HO:105:ARG:HH22	2.34	0.40
8:HO:108:TYR:HB2	8:HO:411:GLU:OE2	2.22	0.40
9:IB:295:ASP:CB	36:Y0:54:ARG:HB2	2.51	0.40
9:ID:261:PRO:HG3	8:IE:406:HIS:CD2	2.57	0.40
9:ID:361:LEU:HD12	9:ID:362:LYS:H	1.86	0.40
8:IE:70:LEU:HB3	8:IE:98:ASP:HA	2.02	0.40
9:IF:12:CYS:SG	9:IF:138:SER:OG	2.78	0.40
9:IF:293:MET:HB2	9:IF:293:MET:HE3	1.63	0.40
9:IH:179:VAL:O	9:IH:388:MET:HE1	2.20	0.40
9:IH:341:PHE:HB3	9:IH:348:ASN:ND2	2.35	0.40
9:IJ:185:ALA:O	9:IJ:189:VAL:HG12	2.21	0.40
8:IK:115:VAL:O	8:IK:119:LEU:HG	2.20	0.40
8:IK:202:PHE:HE1	8:IK:268:PRO:HB2	1.85	0.40
8:IK:306:ASP:O	8:IK:309:HIS:HB2	2.21	0.40
9:IL:31:ASP:OD1	9:IL:33:THR:N	2.54	0.40
9:IL:372:THR:HA	9:IL:422:TYR:CE1	2.56	0.40
8:IM:246:GLY:HA2	8:IM:357:TYR:CD1	2.56	0.40
8:IM:367:ASP:OD1	8:IM:367:ASP:N	2.54	0.40
8:IO:3:GLU:N	8:IO:133:GLN:OE1	2.40	0.40
19:J1:272:GLN:H	19:J1:272:GLN:HG3	1.68	0.40
19:J2:104:ASN:HB3	9:OD:279:GLN:HB3	2.02	0.40
19:J3:139:MET:SD	19:J3:142:ARG:HD2	2.61	0.40
9:JB:309:ARG:H	9:JB:372:THR:HB	1.86	0.40
8:JC:53:PHE:HB3	8:JC:61:HIS:HB3	2.03	0.40
9:JD:149:THR:HA	9:JD:152:ILE:HD12	2.03	0.40
9:JD:207:LEU:HD21	9:JD:300:MET:SD	2.61	0.40
8:JE:9:VAL:HB	8:JE:139:HIS:HB3	2.02	0.40
8:JE:9:VAL:HG12	8:JE:146:GLY:HA2	2.01	0.40
8:JE:166:LYS:N	8:JE:199:ASP:OD2	2.31	0.40
9:JF:395:LEU:C	9:JF:399:THR:HG1	2.29	0.40
8:JI:2:ARG:HH21	8:JI:133:GLN:CD	2.29	0.40
8:JI:105:ARG:HG2	8:JI:411:GLU:OE2	2.20	0.40
8:JI:172:TYR:HE2	8:JI:388:TRP:HE1	1.70	0.40
8:JI:259:LEU:HD23	8:JI:259:LEU:HA	1.95	0.40
9:JJ:271:ALA:HB1	9:JJ:289:LEU:HD22	2.04	0.40
8:JK:117:LEU:O	8:JK:121:ARG:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JM:207:GLU:HA	8:JM:210:TYR:CD2	2.56	0.40
8:JM:214:ARG:HH12	8:JM:215:ARG:CZ	2.35	0.40
8:JM:335:ILE:HA	8:JM:335:ILE:HD13	1.91	0.40
8:JO:331:ALA:O	8:JO:335:ILE:HG12	2.21	0.40
8:JO:334:THR:O	8:JO:338:LYS:HD3	2.21	0.40
9:JP:100:ASN:HB3	9:JP:103:LYS:HB2	2.04	0.40
8:JQ:116:ASP:O	8:JQ:119:LEU:HD12	2.22	0.40
8:JQ:230:LEU:O	8:JQ:233:GLN:HB2	2.21	0.40
8:KA:285:GLN:HE22	8:KA:287:SER:HB3	1.87	0.40
8:KG:322:ASP:OD1	8:KG:322:ASP:N	2.55	0.40
8:KG:338:LYS:HD3	8:KG:340:THR:H	1.85	0.40
9:KJ:8:GLN:NE2	9:KJ:17:GLY:HA3	2.34	0.40
8:KK:96:LYS:HE2	8:KK:96:LYS:HB2	1.89	0.40
8:KK:250:VAL:HG13	8:KK:254:GLU:HB2	2.03	0.40
9:KL:112:LEU:HG	9:KL:147:MET:HE1	2.02	0.40
8:KO:231:ILE:O	8:KO:235:VAL:HG23	2.21	0.40
9:KP:10:GLY:O	9:KP:14:ASN:ND2	2.54	0.40
21:L1:150:ARG:HH22	8:VG:44:GLY:N	2.17	0.40
8:LC:345:ASP:OD1	8:LC:345:ASP:N	2.54	0.40
9:LF:137:HIS:HB2	9:LF:144:GLY:HA3	2.03	0.40
9:LF:362:LYS:HD2	29:S:362:SER:HB2	2.02	0.40
9:LH:137:HIS:O	9:LH:169:VAL:HG23	2.21	0.40
8:LK:5:ILE:HD11	8:LK:129:CYS:SG	2.61	0.40
8:LK:27:GLU:CD	8:LK:27:GLU:C	2.89	0.40
9:LL:12:CYS:O	9:LL:16:ILE:HG22	2.21	0.40
9:LL:148:GLY:HA2	9:LL:151:LEU:HD13	2.03	0.40
9:LL:284:LEU:HD23	9:LL:284:LEU:HA	1.90	0.40
9:LN:314:ALA:O	9:LN:367:PHE:HA	2.21	0.40
9:LN:343:GLU:O	8:LO:397:LEU:HD13	2.21	0.40
8:LO:207:GLU:HA	8:LO:210:TYR:HD2	1.86	0.40
22:M3:23:MET:HG3	22:M3:24:PRO:CD	2.42	0.40
22:M3:175:TYR:O	22:M3:176:GLN:HB2	2.20	0.40
9:MB:361:LEU:HD23	9:MB:361:LEU:HA	1.84	0.40
8:ME:326:LYS:HD3	9:MF:219:THR:HA	2.02	0.40
8:MG:201:ALA:HB3	8:MG:267:PHE:HD1	1.86	0.40
9:MH:15:GLN:HB3	9:MH:226:ASN:HD21	1.86	0.40
8:MI:7:ILE:HD11	8:MI:135:PHE:CD1	2.56	0.40
9:MJ:299:MET:N	9:MJ:299:MET:SD	2.95	0.40
9:ML:298:ASN:O	9:ML:298:ASN:ND2	2.54	0.40
9:MP:268:PRO:HG2	9:MP:300:MET:CG	2.52	0.40
17:N:265:LEU:H	17:N:265:LEU:HD23	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:N2:21:LEU:O	15:N2:25:ARG:HG2	2.20	0.40
15:N2:146:TYR:CE1	15:N2:214:VAL:HG12	2.57	0.40
15:N2:147:GLY:HA3	15:N2:210:GLU:OE1	2.22	0.40
8:NA:21:TRP:CZ3	8:NA:52:PHE:HB3	2.57	0.40
9:NB:31:ASP:OD1	9:NB:35:THR:N	2.54	0.40
8:NE:14:VAL:HA	8:NE:67:PHE:CD2	2.56	0.40
8:NE:360:PRO:HG2	8:NE:374:ALA:HB3	2.03	0.40
9:NH:48:ASN:O	9:NH:62:ARG:NH2	2.55	0.40
8:NI:387:ALA:O	8:NI:390:ARG:HG2	2.21	0.40
9:NJ:405:GLU:OE1	9:NJ:405:GLU:N	2.54	0.40
9:NL:141:GLY:O	9:NL:145:SER:HB2	2.20	0.40
9:NL:324:LYS:O	9:NL:327:ASP:N	2.54	0.40
9:NL:407:GLU:HA	9:NL:410:GLU:HG2	2.02	0.40
8:NM:56:THR:CB	8:OM:285:GLN:HB2	2.51	0.40
9:NN:1:MET:HA	8:NO:96:LYS:NZ	2.36	0.40
9:NN:7:LEU:O	9:NN:135:LEU:HA	2.20	0.40
9:NN:313:VAL:O	9:NN:349:VAL:HA	2.21	0.40
8:NO:111:GLY:O	8:NO:115:VAL:HG23	2.21	0.40
25:O5:233:LYS:HA	25:O5:233:LYS:HD3	1.91	0.40
17:O7:268:THR:HB	17:O7:269:HIS:H	1.75	0.40
17:O8:144:GLU:N	17:O8:144:GLU:OE1	2.54	0.40
9:OB:261:PRO:HG3	8:OC:406:HIS:CD2	2.56	0.40
8:OC:238:ILE:HG23	8:OC:239:THR:HG23	2.03	0.40
9:OD:8:GLN:HE21	9:OD:14:ASN:HA	1.86	0.40
9:OD:70:PRO:HB3	9:OD:92:PHE:CD2	2.56	0.40
8:OG:137:ILE:HG22	8:OG:167:LEU:O	2.22	0.40
8:OG:163:LYS:HB2	8:OG:163:LYS:HE2	1.76	0.40
8:OI:253:THR:HA	8:OI:256:GLN:HG2	2.02	0.40
9:OJ:31:ASP:OD1	9:OJ:31:ASP:N	2.54	0.40
9:OJ:111:GLU:H	9:OJ:111:GLU:CD	2.29	0.40
9:OJ:246:LEU:HD23	8:OK:179:THR:HG21	2.02	0.40
8:OM:21:TRP:CE3	8:OM:63:PRO:HB3	2.57	0.40
8:OM:154:MET:HA	8:OM:157:LEU:HB2	2.03	0.40
9:ON:291:GLN:HG2	36:Y5:200:TYR:CD2	2.56	0.40
8:OO:166:LYS:HG3	8:OO:198:SER:HA	2.02	0.40
9:OP:257:MET:HG3	9:OP:266:PHE:CZ	2.56	0.40
9:OP:337:ASN:HB3	9:OP:340:TYR:CD2	2.56	0.40
23:P:299:GLN:O	23:P:303:GLU:HG2	2.21	0.40
8:PC:238:ILE:HD11	8:PC:378:LEU:HD21	2.04	0.40
9:PH:226:ASN:O	9:PH:230:SER:OG	2.34	0.40
9:PJ:407:GLU:HA	9:PJ:410:GLU:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:PK:105:ARG:HH21	8:PK:110:ILE:HD11	1.87	0.40
8:PK:252:LEU:HA	8:PK:255:PHE:CE2	2.56	0.40
8:PM:82:THR:HB	8:PM:83:TYR:CD2	2.57	0.40
9:PN:361:LEU:HD12	9:PN:361:LEU:HA	1.89	0.40
8:PO:102:ASN:ND2	8:PO:105:ARG:HG3	2.36	0.40
9:PP:257:MET:HB3	9:PP:266:PHE:CZ	2.56	0.40
28:Q4:151:VAL:HG21	12:S8:120:LEU:HD13	2.04	0.40
9:QB:314:ALA:N	9:QB:368:ILE:O	2.50	0.40
8:QC:229:ARG:HA	8:QC:229:ARG:NH1	2.37	0.40
8:QG:250:VAL:HG13	8:QG:254:GLU:HB2	2.02	0.40
9:QH:219:THR:O	9:QH:219:THR:OG1	2.27	0.40
8:QI:11:GLN:NE2	8:QI:69:ASP:OD2	2.48	0.40
8:QK:125:LEU:HA	8:QK:125:LEU:HD23	1.87	0.40
8:QK:249:ASN:OD1	8:QK:249:ASN:N	2.52	0.40
8:QK:324:VAL:HG12	8:QK:326:LYS:H	1.86	0.40
8:QO:350:GLY:HA2	9:QP:179:VAL:HG22	2.03	0.40
9:QP:232:THR:O	9:QP:236:VAL:HG23	2.22	0.40
11:R0:114:ILE:HG12	14:T5:413:GLU:OE2	2.21	0.40
11:R1:384:LEU:HD22	12:S2:39:HIS:CE1	2.55	0.40
11:R2:185:ILE:HG21	11:R2:185:ILE:HD13	1.83	0.40
11:R3:319:GLU:OE2	14:T1:208:LYS:NZ	2.47	0.40
9:RD:152:ILE:O	9:RD:156:ARG:HG2	2.21	0.40
8:RE:167:LEU:HD23	8:RE:202:PHE:CE2	2.55	0.40
8:RE:269:LEU:HD21	8:RE:384:ILE:HB	2.03	0.40
8:RG:290:GLU:HA	8:RG:293:ASN:HD21	1.85	0.40
9:RH:362:LYS:HE3	9:RH:363:MET:HE3	2.04	0.40
8:RM:124:LYS:HA	8:RM:127:ASP:OD2	2.21	0.40
8:RO:381:THR:OG1	8:RO:382:THR:N	2.54	0.40
12:S1:300:TRP:NE1	12:S2:410:GLU:OE1	2.54	0.40
12:S1:368:THR:O	12:S1:372:ILE:HG13	2.20	0.40
12:S2:298:GLU:H	12:S2:298:GLU:CD	2.27	0.40
12:S2:302:LYS:HE3	12:S2:302:LYS:HB2	1.79	0.40
12:S2:446:GLN:OE1	12:S7:285:ARG:N	2.54	0.40
12:S4:156:TRP:O	12:S4:160:ILE:HG13	2.21	0.40
12:S5:114:ARG:NH1	12:S6:367:LYS:HG2	2.35	0.40
12:S5:162:HIS:O	12:S5:166:GLU:HG2	2.21	0.40
12:S6:261:LYS:NZ	12:S6:304:THR:OG1	2.54	0.40
12:S7:168:ILE:HD11	14:T2:244:SER:OG	2.21	0.40
12:S7:383:LYS:O	12:S7:387:LYS:HD3	2.22	0.40
8:SA:122:ILE:O	8:SA:126:ALA:N	2.54	0.40
8:SC:90:GLU:CD	8:SC:121:ARG:HH21	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SC:172:TYR:HD1	8:SC:203:MET:SD	2.43	0.40
8:SE:388:TRP:HB3	8:SE:425:LEU:HD11	2.02	0.40
9:SF:257:MET:HE2	9:SF:314:ALA:HB2	2.03	0.40
9:SF:258:VAL:HB	8:SG:407:TRP:HZ2	1.86	0.40
9:SF:363:MET:HA	9:SF:363:MET:HE3	2.02	0.40
8:SK:137:ILE:C	8:SK:138:PHE:HD1	2.29	0.40
9:SN:165:ASN:OD1	9:SN:165:ASN:N	2.53	0.40
25:T:266:TYR:HA	25:T:272:THR:O	2.21	0.40
14:T0:61:TYR:CD1	14:T0:64:TYR:HE1	2.39	0.40
14:T1:89:GLY:HA2	14:T2:346:LYS:NZ	2.36	0.40
14:T2:238:VAL:HG11	14:T3:352:VAL:HG22	2.04	0.40
14:T2:258:ALA:HA	14:T2:261:ASN:HD22	1.86	0.40
14:T2:423:LEU:O	14:T2:427:ARG:HG2	2.21	0.40
14:T5:415:ASP:HB3	14:T5:419:LYS:HZ3	1.85	0.40
8:TA:188:ILE:HG13	8:TA:395:PHE:CG	2.57	0.40
8:TA:231:ILE:O	8:TA:235:VAL:HG23	2.21	0.40
9:TB:17:GLY:HA2	9:TB:20:PHE:HB3	2.02	0.40
9:TB:152:ILE:O	9:TB:156:ARG:HG2	2.21	0.40
9:TB:253:LEU:O	9:TB:257:MET:N	2.54	0.40
9:TB:267:MET:HG3	9:TB:367:PHE:HE2	1.86	0.40
8:TC:151:SER:HB3	8:TC:193:THR:HG21	2.02	0.40
8:TC:239:THR:HA	8:TC:242:LEU:HD13	2.02	0.40
9:TF:21:TRP:CH2	9:TF:50:TYR:HB3	2.56	0.40
9:TF:337:ASN:HB3	9:TF:340:TYR:CD2	2.56	0.40
8:TG:2:ARG:HB3	8:TG:242:LEU:HD23	2.04	0.40
9:TJ:267:MET:HG2	9:TJ:301:ALA:HB3	2.02	0.40
8:TK:298:PRO:HG3	8:TK:308:ARG:HE	1.86	0.40
9:TN:111:GLU:OE1	9:TN:111:GLU:N	2.44	0.40
25:U:262:TYR:CE1	25:U:291:LEU:HD12	2.56	0.40
30:U5:95:TRP:HE1	30:U6:458:LYS:NZ	2.19	0.40
30:U6:107:GLU:HG3	30:U7:360:GLN:HE22	1.85	0.40
30:U8:294:GLU:O	30:U8:298:LYS:HG2	2.21	0.40
8:UA:10:GLY:O	8:UA:14:VAL:HG12	2.21	0.40
9:UB:321:MET:N	9:UB:321:MET:SD	2.94	0.40
9:UD:310:TYR:CD1	9:UD:371:SER:HB2	2.57	0.40
9:UD:372:THR:HG21	9:UD:426:GLN:CD	2.45	0.40
8:UG:252:LEU:HA	8:UG:255:PHE:CZ	2.56	0.40
9:UH:56:GLY:HA2	39:b:500:GLY:HA3	2.03	0.40
9:UH:170:VAL:HG21	9:UH:201:CYS:HB2	2.02	0.40
9:UH:242:PHE:CG	9:UH:356:ILE:HD12	2.57	0.40
8:UI:79:ARG:HH21	8:UI:94:THR:HG23	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UJ:151:LEU:HD12	9:UJ:152:ILE:HG23	2.02	0.40
9:UJ:356:ILE:HD12	9:UJ:357:PRO:CD	2.47	0.40
8:UK:12:ALA:HA	50:UK:501:GTP:C5	2.56	0.40
9:UL:138:SER:HA	9:UL:169:VAL:HB	2.03	0.40
25:V:233:LYS:HB2	25:V:233:LYS:HE2	1.90	0.40
30:V1:140:ARG:HD3	30:V1:140:ARG:HA	1.86	0.40
30:V1:216:ILE:HG22	30:V1:217:ARG:HH22	1.85	0.40
30:V1:474:LYS:HA	30:V1:474:LYS:HD2	1.81	0.40
30:V3:458:LYS:HA	30:V3:458:LYS:HD3	1.88	0.40
30:V7:234:LYS:HG2	30:V7:235:ARG:N	2.36	0.40
30:V7:280:PHE:HB3	30:V7:281:HIS:ND1	2.36	0.40
30:V7:366:GLN:HA	30:W0:390:LYS:O	2.22	0.40
30:V9:446:MET:HE2	30:V9:446:MET:HB2	1.89	0.40
8:VC:88:HIS:ND1	8:WC:283:HIS:HB3	2.35	0.40
8:VC:202:PHE:HE1	8:VC:378:LEU:HD22	1.85	0.40
9:VD:8:GLN:HE21	9:VD:14:ASN:HA	1.86	0.40
8:VE:152:LEU:HD12	8:VE:153:LEU:N	2.36	0.40
9:VF:263:LEU:HD22	9:VF:422:TYR:HD2	1.87	0.40
8:VG:102:ASN:ND2	8:VG:105:ARG:HG3	2.36	0.40
8:VG:246:GLY:HA2	8:VG:357:TYR:CD1	2.55	0.40
9:VL:322:SER:OG	9:VL:323:MET:N	2.54	0.40
31:W:306:VAL:HG23	31:W:308:GLY:H	1.86	0.40
31:W:318:TYR:HE2	31:W:320:LEU:HD21	1.86	0.40
31:W:390:TYR:N	31:W:390:TYR:CD1	2.89	0.40
30:W0:138:THR:O	30:W0:142:LEU:HG	2.22	0.40
8:WA:4:CYS:SG	8:WA:136:LEU:HG	2.61	0.40
8:WA:221:ARG:HA	8:WA:221:ARG:HD2	1.85	0.40
8:WA:280:LYS:HD2	8:WA:280:LYS:HA	1.90	0.40
8:WC:119:LEU:HD23	8:WC:119:LEU:HA	1.94	0.40
8:WE:171:ILE:HD13	8:WE:171:ILE:HA	1.94	0.40
9:WF:270:PHE:HE1	9:WF:318:ARG:HH22	1.68	0.40
9:WF:309:ARG:NH1	9:WF:426:GLN:O	2.43	0.40
9:WH:289:LEU:O	9:WH:293:MET:HG2	2.20	0.40
8:WI:98:ASP:OD1	8:WI:100:ALA:N	2.50	0.40
8:WK:119:LEU:HD23	8:WK:119:LEU:HA	1.88	0.40
9:WN:12:CYS:O	9:WN:16:ILE:HG12	2.20	0.40
8:WO:273:ALA:O	8:WO:375:VAL:HG12	2.21	0.40
31:X:441:ILE:HD11	31:X:521:ILE:HG22	2.04	0.40
33:X4:164:GLU:OE1	33:X4:164:GLU:N	2.54	0.40
34:X6:123:VAL:HA	34:X6:126:LEU:HG	2.02	0.40
35:XB:39:ASP:OD2	35:XB:42:ILE:HG12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XE:53:ASN:HB3	35:XE:56:THR:HG23	2.03	0.40
35:XF:99:VAL:HG12	35:XF:101:ARG:HD3	2.03	0.40
31:Y:469:ILE:HD11	31:Y:475:ASN:O	2.21	0.40
36:Y0:52:SER:HB3	36:Y0:54:ARG:NH1	2.36	0.40
17:Z5:227:ARG:O	17:Z5:231:VAL:HG23	2.21	0.40
41:b1:341:ARG:O	41:b1:345:GLU:HG2	2.21	0.40
41:b3:205:GLU:O	41:b3:209:MET:HG3	2.21	0.40
41:b3:361:ILE:HG12	41:b3:436:LEU:HG	2.04	0.40
41:b4:132:GLY:HA3	41:b4:288:THR:HG21	2.03	0.40
41:b5:113:MET:SD	41:b5:113:MET:N	2.94	0.40
39:c:156:TRP:O	39:c:160:LYS:HG3	2.21	0.40
39:c:257:GLY:O	39:c:260:HIS:ND1	2.54	0.40
42:e:33:HIS:HB3	42:e:35:ASP:OD1	2.21	0.40
42:e:337:ASP:OD1	42:e:379:GLY:HA2	2.21	0.40
42:f:337:ASP:HB3	42:f:380:ILE:HG22	2.03	0.40
42:f:355:ASP:OD1	42:f:355:ASP:N	2.54	0.40
43:h:148:LYS:HD3	43:h:148:LYS:HA	1.84	0.40
46:i2:1468:LEU:HB3	46:i2:1504:LYS:HB3	2.04	0.40
43:j:225:ILE:HG22	43:j:229:LYS:HE2	2.03	0.40
43:k:220:SER:HB2	43:k:223:LYS:HG3	2.03	0.40
45:n:59:SER:HA	45:n:60:PRO:HD3	1.96	0.40
47:p:380:LYS:O	47:p:384:GLU:HG3	2.21	0.40
47:p:403:ALA:O	47:p:406:ILE:HG12	2.21	0.40
48:q:160:LYS:HB2	48:q:163:GLY:O	2.21	0.40
2:2:391:GLN:HE21	2:2:391:GLN:HB2	1.74	0.40
2:2:431:LYS:HE2	2:2:431:LYS:HB2	1.80	0.40
3:3:13:PHE:CE2	9:OL:218:THR:HB	2.56	0.40
3:4:453:MET:SD	26:P2:101:TRP:HB3	2.60	0.40
4:5:144:MET:SD	4:5:290:ILE:HG22	2.61	0.40
4:5:378:LEU:HG	6:A:74:LEU:CD1	2.51	0.40
4:6:145:MET:HE1	4:6:179:ALA:HB2	2.03	0.40
6:A:43:ARG:HH12	9:JF:83:GLN:HE21	1.68	0.40
7:A1:376:ILE:O	7:A1:380:GLU:HG2	2.21	0.40
7:A4:318:GLU:O	7:A4:321:THR:OG1	2.40	0.40
9:AB:174:LYS:HZ2	9:AB:380:ARG:NH1	2.09	0.40
9:AB:318:ARG:HG2	9:AB:356:ILE:O	2.22	0.40
8:AE:259:LEU:HD12	8:AE:259:LEU:HA	1.89	0.40
9:AF:7:LEU:HB3	9:AF:135:LEU:HB2	2.04	0.40
9:AF:287:PRO:HA	9:AF:290:THR:HG22	2.03	0.40
8:AG:175:PRO:O	8:AG:394:LYS:NZ	2.37	0.40
9:AH:222:TYR:HD1	9:AH:222:TYR:HA	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:252:LYS:HD2	8:AK:101:ASN:ND2	2.36	0.40
8:AK:260:VAL:HG13	8:AK:265:ILE:O	2.22	0.40
8:AM:212:ILE:CG2	8:AM:302:MET:HE1	2.47	0.40
9:AN:299:MET:HE1	9:AN:367:PHE:CE2	2.56	0.40
8:AO:207:GLU:HG2	8:AO:304:LYS:HE2	2.02	0.40
9:AP:253:LEU:O	9:AP:257:MET:HB2	2.21	0.40
11:B3:230:GLU:O	11:B3:233:MET:HB2	2.22	0.40
11:B4:320:SER:O	11:B4:323:TYR:HB2	2.21	0.40
11:B5:321:ARG:HE	11:B5:321:ARG:HB3	1.79	0.40
8:BE:274:PRO:HG2	8:BE:371:VAL:HG21	2.02	0.40
8:BG:317:MET:HE2	8:BG:317:MET:N	2.36	0.40
8:BG:358:GLN:HG2	8:BG:359:PRO:HD2	2.03	0.40
9:BH:309:ARG:NH2	9:BH:339:SER:O	2.53	0.40
8:BK:142:GLY:O	8:BK:186:ASN:ND2	2.53	0.40
8:BK:153:LEU:HD12	8:BK:153:LEU:HA	1.93	0.40
8:BK:230:LEU:HD23	8:BK:231:ILE:HD13	2.04	0.40
9:BL:101:TRP:CD1	9:BL:146:GLY:HA2	2.57	0.40
9:BN:238:THR:HA	9:BN:241:ARG:HH21	1.86	0.40
8:BO:133:GLN:NE2	8:BO:251:ASP:OD2	2.54	0.40
8:BO:152:LEU:HD12	8:BO:153:LEU:N	2.37	0.40
9:BP:21:TRP:CE3	9:BP:24:ILE:HD11	2.56	0.40
9:BP:41:ASP:OD1	9:BP:41:ASP:N	2.55	0.40
9:BP:203:ASP:OD2	9:BP:206:ALA:N	2.50	0.40
9:BP:271:ALA:HB1	9:BP:289:LEU:HD22	2.03	0.40
12:C1:202:ARG:NH2	12:C1:213:ASP:OD1	2.54	0.40
12:C1:414:ASP:O	12:C1:418:LEU:HG	2.22	0.40
12:C2:448:LEU:HD23	12:C2:448:LEU:HA	1.94	0.40
12:C2:452:LYS:O	12:C2:456:GLU:HG3	2.21	0.40
12:C3:382:ILE:HG21	12:C3:438:LEU:HB2	2.02	0.40
12:C4:204:LYS:HE2	12:C4:204:LYS:HB2	1.90	0.40
9:CD:31:ASP:OD1	9:CD:35:THR:N	2.54	0.40
9:CD:325:GLU:OE1	9:CD:325:GLU:N	2.48	0.40
8:CE:172:TYR:CD1	8:CE:173:PRO:HD2	2.56	0.40
8:CG:163:LYS:HA	8:CG:163:LYS:HD3	1.90	0.40
8:CI:326:LYS:HE3	9:CJ:220:PRO:HD2	2.03	0.40
8:CK:172:TYR:HB2	8:CK:203:MET:HB3	2.02	0.40
8:CK:201:ALA:O	8:CK:268:PRO:HD2	2.22	0.40
9:CL:215:LEU:HD21	9:CL:273:LEU:HB3	2.03	0.40
8:CM:220:GLU:HG2	8:CM:221:ARG:HG2	2.04	0.40
8:CM:417:GLU:N	8:CM:417:GLU:OE1	2.55	0.40
8:CO:313:MET:HE3	8:CO:313:MET:HB3	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CQ:269:LEU:HD21	8:CQ:384:ILE:HB	2.04	0.40
8:CQ:298:PRO:HA	8:CQ:301:GLN:HG2	2.04	0.40
14:D0:71:ARG:O	14:D0:75:GLU:HG2	2.21	0.40
14:D3:33:THR:OG1	12:S0:93:ARG:O	2.28	0.40
14:D3:360:ARG:NH2	14:D3:371:ASP:OD2	2.52	0.40
14:D4:297:CYS:O	14:D4:300:VAL:HG12	2.21	0.40
8:DC:88:HIS:CD2	8:EA:283:HIS:HB2	2.56	0.40
9:DD:237:THR:HG22	9:DD:250:LEU:HD21	2.03	0.40
9:DD:415:MET:N	9:DD:415:MET:HE2	2.36	0.40
8:DE:347:CYS:HA	9:DF:388:MET:HE1	2.03	0.40
8:DK:255:PHE:HA	8:DK:258:ASN:HB2	2.03	0.40
9:DL:239:CYS:SG	9:DL:247:ASN:HA	2.61	0.40
8:DQ:98:ASP:OD1	8:DQ:98:ASP:N	2.54	0.40
8:DQ:311:LYS:H	8:DQ:382:THR:HG22	1.87	0.40
15:E:151:CYS:SG	15:E:152:LEU:N	2.93	0.40
8:EC:311:LYS:H	8:EC:382:THR:HG22	1.86	0.40
9:ED:55:THR:HG23	9:FD:283:ALA:HA	2.04	0.40
9:ED:344:TRP:HB2	8:EE:401:LYS:HG3	2.03	0.40
8:EE:169:PHE:HA	8:EE:202:PHE:HB2	2.03	0.40
9:EF:290:THR:HG21	9:EF:329:GLN:CB	2.51	0.40
9:EF:344:TRP:CD1	9:EF:344:TRP:H	2.38	0.40
8:EG:132:LEU:O	8:EG:164:LYS:NZ	2.48	0.40
8:EI:251:ASP:OD1	8:EI:251:ASP:N	2.54	0.40
9:EJ:274:THR:HG21	9:EJ:282:ARG:HD3	2.04	0.40
8:EM:188:ILE:HD11	8:EM:422:ARG:HA	2.03	0.40
8:EO:111:GLY:O	8:EO:115:VAL:HG23	2.22	0.40
15:F:272:GLY:HA2	15:F:280:THR:HA	2.02	0.40
9:FB:20:PHE:HA	9:FB:230:SER:OG	2.21	0.40
8:FC:90:GLU:HB3	8:GC:280:LYS:HZ3	1.85	0.40
8:FC:211:ASP:O	8:FC:215:ARG:HG2	2.21	0.40
8:FC:290:GLU:HA	8:FC:293:ASN:HD21	1.85	0.40
8:FG:388:TRP:HB3	8:FG:425:LEU:HD11	2.02	0.40
8:FI:260:VAL:HB	9:FJ:397:TRP:HZ2	1.86	0.40
9:FJ:45:GLU:OE2	9:FJ:46:ARG:HB2	2.21	0.40
9:FJ:256:ASN:HD21	8:FK:182:VAL:H	1.69	0.40
9:FL:69:GLU:HG2	9:FL:71:GLY:H	1.87	0.40
9:FN:68:LEU:HD23	9:FN:68:LEU:HA	1.88	0.40
9:FN:147:MET:HE3	9:FN:147:MET:HB2	1.88	0.40
8:FO:288:VAL:HG21	8:FO:323:VAL:HG23	2.04	0.40
8:GA:68:VAL:HG12	8:GA:93:ILE:HB	2.04	0.40
8:GC:233:GLN:O	8:GC:237:SER:OG	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GC:308:ARG:HD3	36:Y3:28:PRO:O	2.22	0.40
9:GD:130:LEU:O	9:GD:162:ARG:NH2	2.38	0.40
8:GG:101:ASN:ND2	8:GG:143:GLY:HA2	2.36	0.40
8:GI:68:VAL:HG12	8:GI:93:ILE:HB	2.02	0.40
8:GI:408:TYR:HB3	8:GI:413:MET:SD	2.61	0.40
9:GN:42:LEU:HA	9:GN:42:LEU:HD12	1.89	0.40
8:HC:8:HIS:HB3	8:HC:13:GLY:C	2.46	0.40
8:HC:332:ILE:O	8:HC:335:ILE:HG12	2.20	0.40
9:HD:43:GLN:O	9:HD:47:ILE:HD11	2.21	0.40
9:HD:51:TYR:O	9:HD:62:ARG:NH2	2.54	0.40
9:HD:223:GLY:O	9:HD:227:HIS:N	2.45	0.40
9:HD:251:ARG:HE	8:HE:105:ARG:HH12	1.68	0.40
8:HE:91:GLN:HG3	8:HE:121:ARG:HH12	1.87	0.40
9:HF:139:LEU:HB2	9:HF:171:PRO:HD3	2.04	0.40
9:HF:252:LYS:HG2	8:HG:100:ALA:HA	2.04	0.40
8:HG:276:ILE:HD11	8:HG:280:LYS:CB	2.46	0.40
9:HH:326:VAL:O	9:HH:330:MET:HG2	2.22	0.40
8:HI:119:LEU:HB3	36:Y1:142:TYR:OH	2.22	0.40
8:HI:254:GLU:CD	9:HJ:98:GLY:HA2	2.47	0.40
8:HI:276:ILE:HD12	8:HI:276:ILE:HA	1.81	0.40
8:HI:401:LYS:HB3	8:HI:401:LYS:HE2	1.97	0.40
8:HK:287:SER:HA	8:HK:373:ARG:NH1	2.32	0.40
9:HL:163:ILE:HG12	9:HL:163:ILE:H	1.75	0.40
8:HM:308:ARG:H	8:HM:308:ARG:HG3	1.65	0.40
18:I1:71:ASN:OD1	18:I1:71:ASN:N	2.55	0.40
8:IA:258:ASN:ND2	9:IB:178:THR:HG23	2.35	0.40
9:ID:87:PRO:HA	9:ID:90:PHE:CE2	2.57	0.40
9:IF:198:GLU:HB3	9:IF:266:PHE:CE2	2.51	0.40
9:IF:313:VAL:HB	9:IF:349:VAL:HG22	2.04	0.40
9:IF:356:ILE:HA	9:IF:357:PRO:HD3	1.94	0.40
8:IG:109:THR:HG23	8:IG:411:GLU:OE2	2.21	0.40
8:IG:319:TYR:HB3	8:IG:323:VAL:HG21	2.03	0.40
8:IG:377:MET:HE2	8:IG:377:MET:HB2	1.79	0.40
9:IH:212:PHE:O	9:IH:216:LYS:HA	2.21	0.40
9:IH:288:GLU:OE1	9:IH:289:LEU:HD23	2.22	0.40
8:II:154:MET:CE	8:II:166:LYS:HD3	2.50	0.40
8:II:172:TYR:HE1	8:II:387:ALA:HB1	1.85	0.40
8:IK:136:LEU:HD13	8:IK:136:LEU:HA	2.00	0.40
9:IL:198:GLU:N	9:IL:198:GLU:OE1	2.54	0.40
9:IN:174:LYS:HZ3	9:IN:174:LYS:HG2	1.76	0.40
8:IO:297:GLU:O	8:IO:301:GLN:NE2	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IO:331:ALA:O	8:IO:335:ILE:HG12	2.22	0.40
19:J4:202:ILE:HG13	19:J4:203:LYS:HD3	2.03	0.40
19:J4:235:LEU:H	19:J4:235:LEU:HD23	1.86	0.40
19:J5:116:LEU:H	19:J5:148:ARG:HD3	1.86	0.40
19:J5:144:LEU:HD12	41:b5:352:MET:HG2	2.03	0.40
9:JD:136:THR:HG22	9:JD:167:PHE:HB2	2.03	0.40
9:JD:402:GLY:C	9:JD:403:MET:HE2	2.47	0.40
8:JE:168:GLU:O	8:JE:202:PHE:N	2.54	0.40
8:JE:238:ILE:HD13	8:JE:238:ILE:HA	1.93	0.40
9:JF:2:ARG:HH22	8:JG:73:THR:HG23	1.87	0.40
9:JF:284:LEU:HD13	9:JF:362:LYS:HB3	2.03	0.40
9:JH:1:MET:HE3	9:JH:2:ARG:H	1.86	0.40
9:JH:257:MET:HE1	9:JH:313:VAL:C	2.46	0.40
9:JH:312:THR:HA	9:JH:348:ASN:HB2	2.03	0.40
8:JI:203:MET:H	8:JI:203:MET:HG3	1.72	0.40
8:JI:265:ILE:HG13	8:JI:432:TYR:CZ	2.56	0.40
9:JJ:68:LEU:HD23	9:JJ:112:LEU:HD12	2.02	0.40
9:JJ:273:LEU:H	9:JJ:292:GLN:NE2	2.19	0.40
9:JL:337:ASN:OD1	9:JL:337:ASN:N	2.53	0.40
9:JP:321:MET:HB2	8:JQ:221:ARG:HH22	1.87	0.40
8:JQ:22:GLU:OE2	8:JQ:363:VAL:HG21	2.21	0.40
20:K2:57:TRP:HH2	9:UN:243:PRO:HG3	1.86	0.40
8:KA:262:TYR:CE1	9:KB:393:ALA:HA	2.55	0.40
9:KB:156:ARG:HD2	9:KB:156:ARG:HA	1.74	0.40
9:KD:239:CYS:HB2	9:KD:248:ALA:H	1.86	0.40
9:KF:50:TYR:CE2	9:KF:241:ARG:HD3	2.55	0.40
9:KF:304:ASP:OD1	9:KF:306:ARG:HG3	2.21	0.40
8:KG:50:ASN:O	8:KG:64:ARG:NH1	2.54	0.40
8:KI:123:ARG:HD2	8:KI:123:ARG:HA	1.97	0.40
8:KI:210:TYR:HE1	8:KI:227:LEU:HD11	1.87	0.40
9:KL:31:ASP:OD1	9:KL:35:THR:N	2.55	0.40
8:KM:2:ARG:H	8:KM:2:ARG:HG3	1.64	0.40
8:KO:269:LEU:HD22	8:KO:303:VAL:HG21	2.02	0.40
8:LA:358:GLN:OE1	8:LA:359:PRO:HD2	2.21	0.40
9:LB:250:LEU:H	9:LB:250:LEU:HD12	1.87	0.40
8:LC:346:TRP:H	8:LC:346:TRP:CD1	2.40	0.40
8:LI:79:ARG:HH21	8:LI:94:THR:HG23	1.86	0.40
9:LJ:174:LYS:HE3	9:LJ:174:LYS:HB3	1.84	0.40
9:LL:257:MET:HE1	9:LL:313:VAL:C	2.46	0.40
9:LL:291:GLN:NE2	9:LL:292:GLN:OE1	2.51	0.40
9:LL:336:LYS:HD2	9:LL:337:ASN:OD1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LM:311:LYS:H	8:LM:382:THR:HG22	1.86	0.40
9:LN:294:PHE:CE2	9:LN:333:VAL:HG21	2.56	0.40
8:LO:111:GLY:O	8:LO:115:VAL:HG23	2.21	0.40
8:LO:269:LEU:HD21	8:LO:384:ILE:HD12	2.03	0.40
9:LP:269:GLY:HA2	9:LP:300:MET:HE3	2.02	0.40
17:M:291:SER:O	17:M:291:SER:OG	2.35	0.40
22:M3:23:MET:HE2	22:M3:23:MET:HB2	1.84	0.40
8:MC:317:MET:HE2	8:MC:317:MET:HB2	1.89	0.40
9:MF:259:PRO:HG2	9:MF:263:LEU:HD12	2.02	0.40
9:MF:323:MET:HE3	8:MG:224:TYR:CE2	2.56	0.40
9:MH:254:ALA:O	9:MH:258:VAL:HG12	2.22	0.40
9:MH:379:LYS:HG2	45:m:34:ALA:HB2	2.02	0.40
9:MJ:163:ILE:HD13	9:MJ:163:ILE:HA	1.93	0.40
8:MK:141:PHE:CE1	8:MK:203:MET:HE1	2.56	0.40
8:MM:324:VAL:HG12	8:MM:326:LYS:H	1.86	0.40
9:MN:73:MET:HE3	9:MN:73:MET:HB3	1.94	0.40
8:NA:230:LEU:HD23	8:NA:231:ILE:HD13	2.03	0.40
8:NA:313:MET:HB3	8:NA:346:TRP:CH2	2.56	0.40
9:NB:163:ILE:HD12	9:NB:163:ILE:H	1.86	0.40
8:NC:175:PRO:HB3	8:NC:390:ARG:CZ	2.51	0.40
9:ND:6:HIS:HE2	9:ND:8:GLN:CD	2.27	0.40
9:ND:374:ILE:HG23	9:ND:378:PHE:HE2	1.86	0.40
9:NF:116:VAL:O	9:NF:120:VAL:HG12	2.22	0.40
8:NG:208:ALA:HA	8:NG:304:LYS:HE2	2.02	0.40
9:NJ:334:GLN:HE22	9:NJ:348:ASN:H	1.69	0.40
9:NJ:345:ILE:HG23	8:NK:398:MET:HE1	2.03	0.40
9:NL:111:GLU:OE2	36:Y4:20:MET:HG2	2.22	0.40
9:NL:174:LYS:HE2	9:NL:174:LYS:HB3	1.95	0.40
9:NN:1:MET:HE3	9:NN:1:MET:HB3	1.95	0.40
23:O:18:ALA:HA	23:O:21:ASN:HD21	1.85	0.40
24:O1:38:ASP:N	24:O1:38:ASP:OD2	2.52	0.40
24:O3:40:LEU:HD12	24:O3:40:LEU:HA	1.89	0.40
17:O8:56:LEU:HD22	17:O8:57:SER:H	1.86	0.40
17:O9:63:LYS:HB3	14:T3:223:ASN:ND2	2.37	0.40
8:OC:27:GLU:OE2	8:OC:236:SER:OG	2.29	0.40
8:OC:130:THR:OG1	8:OC:131:GLY:N	2.54	0.40
9:OD:87:PRO:HG2	9:PD:281:TYR:OH	2.22	0.40
9:OF:173:PRO:HD3	9:OF:380:ARG:CZ	2.51	0.40
9:OF:274:THR:HG23	9:OF:292:GLN:HE22	1.87	0.40
9:OH:279:GLN:HA	9:OH:282:ARG:HE	1.87	0.40
8:OI:133:GLN:NE2	8:OI:253:THR:H	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OJ:41:ASP:OD1	9:OJ:41:ASP:N	2.45	0.40
8:OM:89:PRO:HB2	8:PM:280:LYS:NZ	2.36	0.40
9:ON:8:GLN:HB3	9:ON:65:LEU:HA	2.03	0.40
9:OP:20:PHE:CZ	9:OP:233:MET:HB2	2.56	0.40
9:OP:202:ILE:HG21	9:OP:202:ILE:HD13	1.87	0.40
27:P3:156:CYS:O	27:P3:157:LEU:CB	2.70	0.40
27:P3:159:ASP:O	27:P3:162:GLN:HG2	2.21	0.40
27:P5:135:LEU:HD23	27:P5:135:LEU:HA	1.83	0.40
27:P5:152:LEU:N	27:P5:168:ILE:HD11	2.36	0.40
8:PC:419:SER:O	8:PC:423:GLU:HG2	2.22	0.40
9:PD:334:GLN:HE22	9:PD:348:ASN:N	2.19	0.40
8:PE:229:ARG:NH1	8:PE:363:VAL:HG11	2.37	0.40
9:PH:58:LYS:NZ	9:PH:59:TYR:O	2.50	0.40
9:PH:170:VAL:HG11	9:PH:377:LEU:HD21	2.03	0.40
9:PH:182:PRO:HA	9:PH:185:ALA:HB3	2.03	0.40
9:PH:307:HIS:NE2	9:PH:376:GLU:OE2	2.54	0.40
8:PI:85:GLN:OE1	8:QI:282:TYR:OH	2.34	0.40
8:PI:112:LYS:H	8:PI:112:LYS:HG2	1.61	0.40
8:PI:288:VAL:HA	8:PI:291:ILE:HG12	2.02	0.40
9:PJ:87:PRO:HD3	9:QJ:281:TYR:CD2	2.56	0.40
9:PJ:123:GLU:O	9:PJ:126:SER:OG	2.33	0.40
9:PN:232:THR:HG21	9:PN:268:PRO:HB2	2.03	0.40
9:PP:374:ILE:HD12	9:PP:374:ILE:HA	1.92	0.40
28:Q2:143:GLN:OE1	28:Q2:143:GLN:N	2.55	0.40
28:Q2:154:ASN:OD1	28:Q2:155:GLN:N	2.55	0.40
9:QB:324:LYS:HB3	8:QC:221:ARG:CZ	2.50	0.40
8:QC:154:MET:HE1	8:QC:193:THR:HG22	2.03	0.40
8:QE:52:PHE:CE2	8:QE:243:ARG:HD3	2.56	0.40
8:QE:234:ILE:O	8:QE:238:ILE:HG12	2.22	0.40
9:QF:86:ARG:HH11	9:RF:281:TYR:HD2	1.70	0.40
9:QF:362:LYS:HE3	9:QF:362:LYS:HB3	1.78	0.40
8:QG:233:GLN:HG3	8:QG:272:TYR:CZ	2.56	0.40
9:QH:21:TRP:CH2	9:QH:61:PRO:HA	2.55	0.40
9:QH:73:MET:HA	9:QH:76:VAL:HB	2.03	0.40
8:QI:133:GLN:OE1	8:QI:252:LEU:HD23	2.21	0.40
9:QJ:209:ASP:HA	9:QJ:213:ARG:NH1	2.36	0.40
9:QL:103:LYS:HB3	9:QL:103:LYS:HE2	1.89	0.40
8:QM:304:LYS:HD3	8:QM:304:LYS:HA	1.98	0.40
9:QN:156:ARG:HA	9:QN:156:ARG:HD2	1.74	0.40
9:QN:270:PHE:CD2	9:QN:272:PRO:HD2	2.56	0.40
8:QO:263:PRO:HG3	9:QP:396:HIS:CD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QP:68:LEU:HB3	9:QP:96:GLY:HA2	2.03	0.40
9:QP:242:PHE:CG	9:QP:356:ILE:HG21	2.57	0.40
11:R1:332:ASP:OD2	11:R1:334:THR:OG1	2.29	0.40
11:R3:274:SER:O	11:R3:277:SER:OG	2.38	0.40
11:R3:368:LYS:HD3	11:R3:368:LYS:HA	1.88	0.40
11:R4:111:ASP:HA	11:R4:114:ILE:HG22	2.04	0.40
11:R4:269:LEU:HD23	11:R4:269:LEU:HA	1.91	0.40
8:RC:338:LYS:HD3	8:RC:339:ARG:N	2.37	0.40
8:RE:259:LEU:HD12	8:RE:259:LEU:HA	1.93	0.40
8:RG:203:MET:HE1	8:RG:388:TRP:CZ2	2.56	0.40
9:RH:24:ILE:HD12	9:RH:50:TYR:CD2	2.57	0.40
9:RH:147:MET:HE2	9:RH:151:LEU:HD21	2.03	0.40
8:RK:8:HIS:H	8:RK:8:HIS:CD2	2.39	0.40
8:RK:227:LEU:O	8:RK:231:ILE:HG12	2.21	0.40
9:RL:334:GLN:HA	9:RL:341:PHE:CE2	2.57	0.40
8:RM:171:ILE:HD12	8:RM:206:ASN:HD21	1.86	0.40
8:RM:311:LYS:H	8:RM:382:THR:HG22	1.85	0.40
9:RP:210:ILE:O	9:RP:214:THR:N	2.51	0.40
9:RP:276:ARG:HD2	9:RP:276:ARG:HA	1.85	0.40
12:S0:485:ARG:HE	12:S0:485:ARG:HB3	1.68	0.40
12:S2:153:LEU:HD23	12:S2:153:LEU:HA	1.88	0.40
12:S4:157:LYS:HD2	12:S4:258:LEU:HD12	2.03	0.40
12:S6:164:LEU:HD12	12:S6:164:LEU:HA	1.83	0.40
12:S8:459:LEU:HD12	12:S8:459:LEU:HA	1.89	0.40
12:S9:212:HIS:O	12:S9:217:LYS:NZ	2.54	0.40
8:SA:15:GLN:HB3	8:SA:228:ASN:HD21	1.87	0.40
9:SB:404:ASP:OD1	9:SB:404:ASP:N	2.51	0.40
8:SC:2:ARG:HH22	9:SD:71:GLY:HA3	1.87	0.40
8:SC:362:VAL:HG11	8:SC:370:LYS:HA	2.03	0.40
9:SF:414:ASN:O	9:SF:417:ASP:N	2.52	0.40
8:SG:136:LEU:HD23	8:SG:138:PHE:HZ	1.85	0.40
9:SH:284:LEU:HD23	9:SH:284:LEU:HA	1.88	0.40
9:SH:310:TYR:N	9:SH:340:TYR:O	2.37	0.40
8:SI:255:PHE:O	8:SI:259:LEU:HB2	2.22	0.40
9:SJ:86:ARG:HG3	9:TJ:281:TYR:CE2	2.57	0.40
9:SL:169:VAL:HG22	9:SL:202:ILE:HG13	2.03	0.40
25:T:324:TYR:OH	25:T:336:THR:O	2.31	0.40
14:T0:33:THR:OG1	14:T0:33:THR:O	2.38	0.40
14:T1:22:LEU:HB2	14:T2:270:ARG:NH1	2.36	0.40
14:T1:272:ARG:O	14:T1:276:VAL:HG23	2.22	0.40
14:T1:313:ASP:OD1	14:T1:314:SER:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T3:286:LEU:HD23	14:T3:286:LEU:HA	1.90	0.40
14:T5:371:ASP:OD2	14:T5:373:ALA:HB3	2.22	0.40
9:TB:269:GLY:HA2	9:TB:300:MET:HE3	2.03	0.40
9:TB:362:LYS:HE2	9:TB:363:MET:SD	2.61	0.40
8:TC:106:GLY:HA2	8:TC:149:PHE:CE2	2.56	0.40
8:TC:239:THR:HA	8:TC:242:LEU:CD1	2.51	0.40
9:TD:80:PRO:HD3	47:o:138:CYS:CB	2.41	0.40
9:TD:270:PHE:CE2	9:TD:272:PRO:HD2	2.56	0.40
9:TF:63:ALA:HB3	9:TF:85:PHE:HE1	1.86	0.40
9:TF:395:LEU:O	9:TF:399:THR:OG1	2.37	0.40
8:TG:263:PRO:HG3	9:TH:396:HIS:CD2	2.56	0.40
9:TH:167:PHE:CD1	9:TH:167:PHE:N	2.89	0.40
9:TJ:73:MET:HE2	9:TJ:77:ARG:NH2	2.36	0.40
9:TJ:232:THR:HG21	9:TJ:268:PRO:HB2	2.03	0.40
9:TJ:322:SER:OG	8:TK:222:PRO:O	2.36	0.40
9:TJ:389:PHE:HZ	9:TJ:405:GLU:HB2	1.87	0.40
8:TM:317:MET:HA	8:TM:317:MET:CE	2.50	0.40
30:U0:301:ASN:O	30:U0:305:ARG:HG2	2.21	0.40
30:U2:250:LEU:HD23	30:U2:250:LEU:HA	1.95	0.40
30:U7:89:ARG:HE	30:U8:208:HIS:N	2.20	0.40
30:U8:410:ASP:OD1	30:U8:410:ASP:N	2.51	0.40
8:UA:111:GLY:O	8:UA:115:VAL:HG23	2.21	0.40
8:UA:231:ILE:HA	8:UA:234:ILE:HG22	2.03	0.40
8:UC:269:LEU:HD13	8:UC:301:GLN:NE2	2.37	0.40
8:UC:315:CYS:HA	8:UC:379:SER:HA	2.03	0.40
9:UF:52:ASN:HB3	9:UF:60:VAL:HG23	2.03	0.40
8:UG:263:PRO:HG3	9:UH:396:HIS:CD2	2.56	0.40
9:UN:47:ILE:HG12	9:UN:51:TYR:HB2	2.04	0.40
8:UO:317:MET:HB3	8:UO:353:VAL:HA	2.04	0.40
25:V:371:LYS:HE2	40:a3:159:ARG:H	1.86	0.40
25:V:416:ASP:HB3	25:V:417:ASN:H	1.68	0.40
30:V1:378:LEU:HD23	30:V2:124:MET:HE2	2.03	0.40
30:V1:468:LYS:HA	30:V1:468:LYS:HD3	1.89	0.40
30:V2:405:VAL:HA	30:V3:290:VAL:HG21	2.02	0.40
30:V3:129:GLN:HA	30:V3:132:HIS:NE2	2.36	0.40
30:V4:240:ILE:HD13	30:V4:240:ILE:HG21	1.92	0.40
30:V4:324:LEU:O	30:V4:328:LEU:HG	2.21	0.40
30:V9:346:ARG:O	30:V9:349:GLU:HG3	2.21	0.40
8:VA:33:ASP:OD1	8:VA:34:GLY:N	2.54	0.40
8:VA:324:VAL:O	8:VA:328:VAL:HG23	2.22	0.40
9:VD:121:ARG:O	9:VD:125:GLU:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VG:311:LYS:HE3	8:VG:344:VAL:HA	2.02	0.40
9:VH:55:THR:HG23	9:WH:283:ALA:HA	2.02	0.40
9:VH:395:LEU:O	9:VH:399:THR:OG1	2.35	0.40
8:VI:175:PRO:HB3	8:VI:390:ARG:CZ	2.51	0.40
9:VJ:4:ILE:HD13	9:VJ:4:ILE:HA	1.95	0.40
9:VL:63:ALA:O	9:VL:89:ASN:ND2	2.34	0.40
9:VL:156:ARG:HG3	9:VL:195:ASN:HB3	2.03	0.40
8:VM:263:PRO:HG3	9:VN:396:HIS:CD2	2.56	0.40
9:VN:309:ARG:NH2	9:VN:339:SER:O	2.54	0.40
8:VO:175:PRO:HA	8:VO:390:ARG:CZ	2.51	0.40
31:W:62:LYS:HE3	31:W:62:LYS:HB3	1.87	0.40
30:W2:232:LEU:O	30:W2:236:ILE:HG12	2.22	0.40
30:W4:363:LYS:HA	30:W4:363:LYS:HD3	1.82	0.40
30:W6:242:ASP:OD1	30:W6:242:ASP:N	2.54	0.40
8:WA:20:CYS:SG	8:WA:21:TRP:N	2.94	0.40
8:WC:132:LEU:O	8:WC:164:LYS:NZ	2.35	0.40
8:WC:234:ILE:HD11	8:WC:272:TYR:HB2	2.04	0.40
9:WD:72:THR:O	9:WD:75:SER:OG	2.35	0.40
8:WE:365:GLY:HA3	42:e:414:SER:HB3	2.03	0.40
9:WF:7:LEU:HD13	9:WF:64:VAL:HB	2.03	0.40
9:WF:68:LEU:HD23	9:WF:68:LEU:HA	1.92	0.40
9:WJ:23:VAL:HG12	9:WJ:27:GLU:OE1	2.21	0.40
9:WJ:163:ILE:HD13	9:WJ:163:ILE:HA	1.91	0.40
9:WJ:215:LEU:HD12	9:WJ:215:LEU:HA	1.82	0.40
9:WJ:337:ASN:HB3	9:WJ:340:TYR:HD2	1.86	0.40
8:WK:107:HIS:HB3	8:WK:108:TYR:CD2	2.56	0.40
9:WL:255:VAL:HG11	8:WM:100:ALA:O	2.22	0.40
8:WO:217:LEU:HD11	8:WO:367:ASP:HB2	2.03	0.40
33:X4:336:ASP:O	33:X4:337:ARG:NH1	2.54	0.40
33:X5:26:LYS:HA	33:X5:26:LYS:HE2	2.03	0.40
34:X6:167:LEU:HD22	34:X6:188:TYR:O	2.22	0.40
34:X7:196:TRP:O	34:X7:196:TRP:CD1	2.74	0.40
35:XA:169:ASP:OD1	35:XA:169:ASP:N	2.42	0.40
35:XE:1:MET:H2	35:XE:3:LYS:HE3	1.86	0.40
35:XF:72:LYS:NZ	35:XF:149:ILE:HG22	2.35	0.40
35:XH:1:MET:H1	35:XH:67:LYS:HE3	1.86	0.40
35:XH:77:VAL:HG22	35:XH:133:GLN:HE22	1.85	0.40
31:Y:232:PHE:HZ	31:Y:364:TYR:HE2	1.69	0.40
36:Y4:191:GLN:HG2	36:Y4:196:LYS:CB	2.51	0.40
37:YA:81:LYS:H	37:YA:81:LYS:HG3	1.68	0.40
37:YE:231:MET:HE3	37:YE:231:MET:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YF:67:ILE:HB	37:YF:78:ILE:HD11	2.02	0.40
37:YH:38:ARG:HH12	37:YH:41:PRO:HD3	1.86	0.40
37:YH:161:VAL:HG12	37:YH:219:TYR:CE2	2.56	0.40
40:a3:119:GLU:HA	40:a3:122:TYR:CE2	2.57	0.40
40:a4:137:PHE:O	40:a4:140:LEU:HD12	2.21	0.40
39:b:431:LYS:HB3	39:b:431:LYS:HE3	1.78	0.40
41:b1:335:SER:O	41:b1:338:GLN:NE2	2.55	0.40
41:b2:235:ASP:O	41:b2:239:GLN:HG3	2.21	0.40
41:b2:469:HIS:HA	41:b2:470:PRO:HD3	1.98	0.40
39:c:372:LEU:HA	39:c:375:LEU:HD12	2.03	0.40
39:c:488:LYS:HE3	39:c:488:LYS:HB2	1.82	0.40
42:g:120:SER:CB	42:g:125:TYR:H	2.35	0.40
44:h2:72:GLN:HA	44:h2:75:GLU:HG2	2.02	0.40
44:h3:64:MET:HA	44:h3:67:ARG:HB2	2.03	0.40
45:i1:8:ASN:HB2	45:i1:9:GLN:H	1.72	0.40
46:i3:1418:MET:HE3	46:i3:1419:ARG:HG2	2.04	0.40
43:j:233:GLU:O	43:j:237:LEU:HG	2.22	0.40
4:j1:204:ARG:HH22	4:j1:217:THR:HA	1.87	0.40
45:n:98:LYS:HE2	45:n:98:LYS:HB2	1.87	0.40
47:p:199:GLU:OE2	47:p:202:ARG:NH2	2.54	0.40
49:y:59:TYR:HA	49:y:60:ARG:NH2	2.36	0.40
3:3:51:LEU:HD12	3:3:52:ALA:N	2.36	0.40
3:3:374:GLU:HB2	3:3:377:ARG:HH21	1.86	0.40
3:4:437:PHE:HA	3:4:440:ARG:HE	1.86	0.40
7:A2:97:ARG:HG2	28:Q2:76:TRP:CZ2	2.57	0.40
7:A4:142:ILE:HG13	7:A4:256:GLN:HG2	2.04	0.40
9:AB:305:PRO:HA	9:AB:373:ALA:HB2	2.02	0.40
8:AC:111:GLY:O	8:AC:115:VAL:HG23	2.22	0.40
8:AE:370:LYS:HZ2	25:U:90:VAL:CA	2.33	0.40
9:AF:201:CYS:SG	9:AF:265:PHE:HB3	2.62	0.40
9:AJ:28:HIS:CD2	9:AJ:47:ILE:HG13	2.56	0.40
9:AJ:70:PRO:HG3	9:AJ:92:PHE:CE1	2.56	0.40
9:AJ:262:ARG:HH12	37:YE:175:ARG:NE	2.20	0.40
9:AJ:318:ARG:HE	9:AJ:318:ARG:HB3	1.76	0.40
8:AK:111:GLY:O	8:AK:115:VAL:HG23	2.21	0.40
8:AM:236:SER:O	8:AM:243:ARG:NH2	2.52	0.40
9:AN:221:THR:OG1	33:X5:56:ASN:ND2	2.55	0.40
9:AN:316:VAL:HG22	9:AN:352:ALA:HB3	2.03	0.40
8:AO:70:LEU:HD23	8:AO:70:LEU:HA	1.95	0.40
8:AO:318:LEU:HB2	8:AO:376:CYS:HB3	2.02	0.40
11:B0:20:ASN:ND2	11:B1:126:ILE:HD11	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B0:39:ARG:HH22	11:B1:293:LEU:HA	1.85	0.40
11:B2:72:ASN:O	11:B2:76:GLU:HG2	2.22	0.40
11:B2:298:ARG:O	11:B2:301:GLU:HG3	2.21	0.40
11:B3:306:ARG:HD3	11:B3:307:LYS:HZ1	1.87	0.40
11:B4:45:LEU:HD22	11:B5:355:LYS:HG3	2.02	0.40
11:B4:265:PHE:CD2	11:B4:391:MET:HE3	2.57	0.40
8:BE:363:VAL:HG23	8:BE:366:GLY:HA3	2.02	0.40
9:BF:317:PHE:HB3	9:BF:321:MET:CE	2.51	0.40
8:BG:209:ILE:HD12	8:BG:227:LEU:HD23	2.04	0.40
9:BH:189:VAL:HG11	9:BH:415:MET:SD	2.62	0.40
9:BH:363:MET:HE2	9:BH:363:MET:HB3	1.90	0.40
8:BI:382:THR:HA	8:BI:432:TYR:HE2	1.87	0.40
9:BL:158:GLU:HG3	9:BL:159:TYR:CD2	2.56	0.40
8:BO:274:PRO:HG3	8:BO:371:VAL:HG11	2.03	0.40
12:C3:93:ARG:HH11	12:C4:210:LEU:HD21	1.86	0.40
12:C3:283:TYR:CD2	12:C4:394:LYS:HD3	2.56	0.40
12:C3:369:LEU:HD23	12:C3:369:LEU:HA	1.90	0.40
9:CB:133:PHE:CB	9:CB:164:MET:HE1	2.43	0.40
9:CB:256:ASN:HD21	8:CC:180:ALA:HB1	1.87	0.40
8:CC:26:LEU:HD12	8:CC:26:LEU:HA	1.85	0.40
9:CD:33:THR:O	9:CD:58:LYS:NZ	2.43	0.40
9:CD:208:TYR:O	9:CD:212:PHE:N	2.53	0.40
9:CD:217:LEU:HD11	31:W:296:GLY:HA2	2.02	0.40
8:CE:290:GLU:H	8:CE:290:GLU:CD	2.30	0.40
8:CG:103:TYR:HB3	8:CG:408:TYR:HE2	1.86	0.40
9:CH:148:GLY:O	9:CH:152:ILE:HG13	2.20	0.40
8:CI:108:TYR:HE2	8:CI:413:MET:HE3	1.86	0.40
8:CI:192:HIS:NE2	8:CI:424:ASP:OD2	2.55	0.40
8:CI:206:ASN:OD1	50:CI:501:GTP:N2	2.54	0.40
9:CJ:289:LEU:O	9:CJ:293:MET:HB2	2.22	0.40
8:CK:16:ILE:HD13	8:CK:231:ILE:HG21	2.03	0.40
8:CK:439:SER:OG	9:CL:390:ARG:NH2	2.49	0.40
9:CL:226:ASN:OD1	52:CL:502:GDP:N1	2.43	0.40
8:CM:42:ILE:HD12	8:CM:42:ILE:HA	1.89	0.40
8:CM:84:ARG:NH2	40:a3:10:LYS:HE2	2.36	0.40
8:CM:105:ARG:O	8:CM:110:ILE:HG22	2.21	0.40
8:CM:270:ALA:H	8:CM:302:MET:CE	2.34	0.40
9:CP:73:MET:H	9:CP:73:MET:HG2	1.65	0.40
9:CP:402:GLY:C	9:CP:403:MET:HE2	2.46	0.40
8:CQ:2:ARG:H	8:CQ:2:ARG:HG3	1.67	0.40
8:CQ:19:ALA:CB	8:CQ:228:ASN:HB3	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CQ:70:LEU:HA	8:CQ:95:GLY:HA3	2.03	0.40
14:D2:72:ASP:O	14:D2:76:ARG:HG3	2.21	0.40
14:D4:142:LEU:HD21	14:D4:191:LYS:HD2	2.04	0.40
9:DD:249:ASP:OD1	9:DD:252:LYS:HG3	2.21	0.40
8:DE:247:ALA:C	8:DE:248:LEU:HD23	2.47	0.40
9:DF:86:ARG:HG2	9:DF:88:ASP:H	1.85	0.40
9:DF:213:ARG:HH21	9:DF:297:LYS:HB3	1.86	0.40
8:DG:172:TYR:CB	8:DG:203:MET:HE1	2.52	0.40
8:DI:439:SER:N	9:DJ:391:ARG:HH21	2.19	0.40
8:DK:102:ASN:ND2	8:DK:105:ARG:HG3	2.36	0.40
15:E:293:ARG:O	15:E:293:ARG:HD3	2.22	0.40
9:EB:52:ASN:HB3	9:EB:60:VAL:HG23	2.03	0.40
9:EB:101:TRP:HZ3	9:EB:403:MET:HE1	1.86	0.40
8:EC:7:ILE:O	8:EC:9:VAL:HG23	2.22	0.40
9:EH:376:GLU:HG2	9:EH:380:ARG:HH21	1.86	0.40
8:EI:223:THR:HG23	8:EI:225:THR:HG22	2.04	0.40
9:EJ:132:GLY:HA2	9:EJ:162:ARG:HB3	2.02	0.40
9:EJ:198:GLU:HA	9:EJ:264:HIS:HB2	2.04	0.40
9:EJ:330:MET:HE3	9:EJ:349:VAL:HB	2.04	0.40
9:EJ:372:THR:HG21	9:EJ:426:GLN:HB2	2.03	0.40
8:EM:359:PRO:HA	8:EM:360:PRO:HD3	1.98	0.40
9:EN:212:PHE:HD1	9:EN:212:PHE:HA	1.81	0.40
15:F:222:ILE:HD13	15:F:222:ILE:HA	1.97	0.40
8:FA:15:GLN:HB3	8:FA:228:ASN:HD21	1.86	0.40
8:FA:52:PHE:CE2	8:FA:243:ARG:HD3	2.57	0.40
8:FA:288:VAL:HB	8:FA:327:ASP:HB3	2.03	0.40
8:FC:7:ILE:HD11	8:FC:135:PHE:CD1	2.56	0.40
8:FC:117:LEU:HD21	36:Y3:32:ILE:HG23	2.04	0.40
9:FD:294:PHE:CE2	9:FD:333:VAL:HG11	2.56	0.40
9:FF:73:MET:H	9:FF:73:MET:HG2	1.62	0.40
9:FH:153:SER:HA	9:FH:195:ASN:HD22	1.87	0.40
9:FH:163:ILE:HD13	9:FH:163:ILE:HA	1.90	0.40
9:FH:173:PRO:HG3	9:FH:380:ARG:NE	2.36	0.40
9:FJ:362:LYS:HG2	9:FJ:363:MET:HG3	2.03	0.40
8:FK:167:LEU:HD23	8:FK:202:PHE:HE2	1.86	0.40
9:FN:142:GLY:N	52:FN:502:GDP:O3B	2.39	0.40
8:FO:117:LEU:O	8:FO:121:ARG:HG2	2.21	0.40
8:GA:20:CYS:HB3	8:GA:24:TYR:CZ	2.57	0.40
8:GA:312:TYR:CE2	8:GA:341:ILE:HD12	2.54	0.40
9:GD:198:GLU:HG3	9:GD:266:PHE:CE1	2.55	0.40
8:GE:73:THR:HA	8:GE:76:ASP:OD1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GE:254:GLU:OE2	8:GE:352:LYS:NZ	2.50	0.40
9:GF:92:PHE:CD1	9:GF:92:PHE:C	3.00	0.40
9:GF:303:CYS:HB2	9:GF:373:ALA:HB1	2.03	0.40
9:GF:330:MET:HE3	9:GF:330:MET:HB3	1.97	0.40
8:GG:188:ILE:O	8:GG:191:THR:OG1	2.37	0.40
8:GG:215:ARG:NH2	8:GG:300:ASN:OD1	2.45	0.40
8:GG:395:PHE:CD2	8:GG:422:ARG:HD3	2.56	0.40
9:GH:174:LYS:HE3	36:Y2:172:PHE:CD2	2.56	0.40
9:GH:362:LYS:HB2	9:GH:362:LYS:HE3	1.77	0.40
8:GI:14:VAL:HG11	8:GI:74:VAL:HG12	2.03	0.40
8:GI:259:LEU:CD1	8:GI:380:ASN:HB2	2.51	0.40
9:GL:11:GLN:HA	9:GL:72:THR:HG21	2.04	0.40
9:GN:7:LEU:HD12	9:GN:7:LEU:HA	1.83	0.40
8:GO:6:SER:HB3	8:GO:8:HIS:NE2	2.36	0.40
8:GO:68:VAL:HG12	8:GO:93:ILE:HB	2.02	0.40
8:GO:242:LEU:HD23	8:GO:242:LEU:HA	1.91	0.40
9:HB:8:GLN:HG2	9:HB:14:ASN:HA	2.04	0.40
9:HB:20:PHE:HB2	9:HB:233:MET:CE	2.51	0.40
9:HB:215:LEU:HD21	9:HB:273:LEU:HD12	2.03	0.40
9:HB:344:TRP:CD1	9:HB:344:TRP:H	2.38	0.40
8:HC:172:TYR:CD2	8:HC:203:MET:HE3	2.56	0.40
8:HE:141:PHE:HB2	8:HE:173:PRO:HD3	2.02	0.40
8:HE:253:THR:HG23	8:HE:256:GLN:HE21	1.85	0.40
8:HI:385:ALA:HB2	8:HI:432:TYR:CD2	2.56	0.40
9:HJ:156:ARG:NH2	9:HJ:196:THR:HA	2.37	0.40
9:HJ:328:GLU:O	9:HJ:332:ASN:N	2.52	0.40
9:HL:174:LYS:HD2	9:HL:205:GLU:HG3	2.03	0.40
9:HL:257:MET:HA	9:HL:257:MET:HE3	2.03	0.40
9:HL:374:ILE:HD12	9:HL:374:ILE:HA	1.92	0.40
9:HL:390:ARG:NH2	9:HL:391:ARG:HH21	2.19	0.40
8:HM:276:ILE:HD12	8:HM:280:LYS:HB2	2.03	0.40
9:HN:94:GLN:NE2	36:Y1:62:GLU:OE2	2.55	0.40
8:HO:28:HIS:HD2	8:HO:30:ILE:HD11	1.86	0.40
18:I1:55:ARG:HH22	9:JN:209:ASP:HA	1.86	0.40
18:I1:104:TYR:HE2	8:IM:19:ALA:CA	2.33	0.40
9:IB:46:ARG:HD3	9:IB:241:ARG:C	2.46	0.40
9:IF:244:GLY:HA2	9:IF:354:CYS:HA	2.03	0.40
8:IG:189:LEU:HD22	8:IG:413:MET:HE1	2.02	0.40
8:IG:349:THR:OG1	9:IH:176:SER:HB3	2.21	0.40
9:IH:134:GLN:NE2	9:IH:167:PHE:HE2	2.19	0.40
9:IH:334:GLN:NE2	9:IH:348:ASN:HD22	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:II:152:LEU:O	8:II:155:GLU:HG2	2.21	0.40
9:IJ:32:PRO:HD3	9:IJ:81:PHE:CZ	2.56	0.40
8:IK:86:LEU:HG	8:IK:87:PHE:CD1	2.56	0.40
8:IK:318:LEU:HD23	8:IK:318:LEU:HA	1.94	0.40
9:IL:86:ARG:HA	8:JM:283:HIS:CD2	2.57	0.40
8:IM:265:ILE:HD12	8:IM:432:TYR:CE1	2.56	0.40
9:IN:323:MET:HA	9:IN:326:VAL:HG12	2.03	0.40
8:IO:326:LYS:HA	9:IP:208:TYR:CZ	2.57	0.40
9:IP:77:ARG:HB3	9:IP:77:ARG:HH11	1.86	0.40
9:IP:368:ILE:HA	9:IP:368:ILE:HD12	1.80	0.40
19:J2:28:ILE:HD12	19:J2:82:ASN:HB2	2.04	0.40
19:J3:191:TRP:O	19:J3:195:GLN:HG2	2.21	0.40
19:J4:221:SER:O	19:J4:225:LYS:HG3	2.21	0.40
9:JB:323:MET:O	9:JB:327:ASP:N	2.44	0.40
9:JB:359:ARG:HA	9:JB:359:ARG:HD2	1.78	0.40
8:JC:52:PHE:CZ	8:JC:239:THR:HG21	2.56	0.40
8:JC:235:VAL:HA	8:JC:238:ILE:HG22	2.03	0.40
8:JG:267:PHE:HD2	8:JG:432:TYR:HH	1.70	0.40
8:JK:433:GLU:O	8:JK:437:VAL:HG23	2.22	0.40
9:JL:319:GLY:HA2	9:JL:357:PRO:CD	2.40	0.40
8:JM:69:ASP:OD1	8:JM:70:LEU:N	2.54	0.40
9:JN:388:MET:HE2	9:JN:388:MET:HB3	1.91	0.40
9:JP:285:THR:OG1	9:JP:286:VAL:N	2.54	0.40
8:KA:393:HIS:O	8:KA:397:LEU:HG	2.22	0.40
9:KB:287:PRO:HB3	9:KB:329:GLN:NE2	2.35	0.40
9:KB:323:MET:O	9:KB:327:ASP:N	2.40	0.40
9:KD:173:PRO:HG3	9:KD:380:ARG:NE	2.37	0.40
9:KD:327:ASP:O	9:KD:331:LEU:N	2.47	0.40
8:KE:210:TYR:O	8:KE:214:ARG:HG2	2.21	0.40
8:KE:301:GLN:NE2	8:KE:305:CYS:O	2.54	0.40
8:KG:231:ILE:O	8:KG:235:VAL:HG23	2.22	0.40
9:KH:330:MET:SD	9:KH:331:LEU:N	2.94	0.40
8:KI:265:ILE:HG23	8:KI:432:TYR:CZ	2.56	0.40
8:KI:346:TRP:CZ2	8:KI:435:VAL:HG13	2.55	0.40
9:KJ:70:PRO:HD3	9:KJ:93:GLY:O	2.22	0.40
9:KJ:299:MET:HE1	9:KJ:367:PHE:CE2	2.56	0.40
8:KK:23:LEU:HD21	8:KK:236:SER:HB2	2.02	0.40
8:KK:286:LEU:O	8:KK:373:ARG:NH1	2.54	0.40
9:KL:68:LEU:HD23	9:KL:68:LEU:HA	1.91	0.40
9:KL:337:ASN:HB3	9:KL:340:TYR:CD2	2.56	0.40
8:KM:7:ILE:HD11	8:KM:135:PHE:CD1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:KM:304:LYS:HD3	8:KM:304:LYS:HA	1.89	0.40
9:KN:282:ARG:HB2	9:KN:282:ARG:HH11	1.86	0.40
9:KP:152:ILE:HG22	9:KP:195:ASN:HB3	2.03	0.40
9:KP:300:MET:N	9:KP:300:MET:SD	2.84	0.40
8:LA:88:HIS:HD2	8:LA:90:GLU:H	1.68	0.40
8:LC:359:PRO:HA	8:LC:360:PRO:HD3	1.97	0.40
9:LD:68:LEU:HD23	9:LD:68:LEU:HA	1.90	0.40
8:LE:171:ILE:HD12	8:LE:206:ASN:ND2	2.35	0.40
9:LH:118:ASP:O	9:LH:122:LYS:HD2	2.22	0.40
9:LJ:372:THR:O	9:LJ:375:GLN:HG2	2.21	0.40
8:LK:49:PHE:HD1	8:LK:53:PHE:HB2	1.86	0.40
8:LK:197:HIS:NE2	45:n:74:ILE:O	2.52	0.40
9:LL:313:VAL:HG13	9:LL:367:PHE:HE1	1.86	0.40
9:LN:323:MET:HE1	8:LO:224:TYR:CD1	2.57	0.40
8:LO:267:PHE:CD2	8:LO:388:TRP:HH2	2.39	0.40
9:LP:337:ASN:HB3	9:LP:340:TYR:HD2	1.85	0.40
8:MA:63:PRO:HG2	8:MA:87:PHE:CE1	2.57	0.40
8:MA:111:GLY:O	8:MA:115:VAL:HG23	2.21	0.40
8:MA:302:MET:HE2	8:MA:302:MET:HB2	1.98	0.40
9:MB:8:GLN:NE2	9:MB:17:GLY:HA3	2.36	0.40
9:MB:404:ASP:OD1	9:MB:404:ASP:N	2.54	0.40
8:ME:339:ARG:HD3	8:ME:339:ARG:O	2.21	0.40
9:MF:68:LEU:HD23	9:MF:68:LEU:HA	1.87	0.40
9:MF:150:LEU:HG	9:MF:154:LYS:NZ	2.37	0.40
8:MI:28:HIS:CD2	8:MI:49:PHE:HA	2.56	0.40
8:MK:66:VAL:HG22	8:MK:121:ARG:NH2	2.37	0.40
8:MK:138:PHE:CD1	8:MK:169:PHE:HB2	2.56	0.40
8:MK:183:GLU:HA	8:MK:186:ASN:HD22	1.85	0.40
9:ML:17:GLY:HA2	9:ML:20:PHE:HB3	2.02	0.40
9:ML:174:LYS:NZ	45:n:5:TYR:O	2.33	0.40
9:ML:221:THR:HG23	9:ML:223:GLY:N	2.37	0.40
9:MN:174:LYS:HB2	9:MN:174:LYS:HE2	1.86	0.40
8:MO:251:ASP:H	8:MO:254:GLU:HG2	1.86	0.40
6:N1:25:ARG:HA	6:N1:28:ASN:HD21	1.86	0.40
8:NE:248:LEU:HD13	8:NE:355:ILE:HG12	2.02	0.40
8:NG:6:SER:HB3	8:NG:8:HIS:CD2	2.56	0.40
8:NG:226:ASN:ND2	8:NG:229:ARG:HH12	2.19	0.40
9:NH:90:PHE:HB3	9:NH:92:PHE:HE1	1.86	0.40
8:NI:256:GLN:OE1	8:NI:257:THR:N	2.54	0.40
9:NJ:345:ILE:HB	9:NJ:348:ASN:OD1	2.22	0.40
9:NJ:415:MET:HA	9:NJ:415:MET:HE3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:NL:256:ASN:ND2	8:NM:181:VAL:H	2.10	0.40
8:NM:147:SER:OG	8:NM:190:THR:OG1	2.25	0.40
8:NM:328:VAL:HG11	8:NM:353:VAL:HG11	2.04	0.40
24:O3:120:LEU:HD23	24:O3:120:LEU:HA	1.94	0.40
17:O9:61:LYS:NZ	11:R1:350:ASN:OD1	2.55	0.40
8:OA:9:VAL:HG12	8:OA:146:GLY:HA2	2.04	0.40
9:OB:330:MET:HE3	9:OB:349:VAL:HB	2.04	0.40
8:OC:84:ARG:H	8:OC:84:ARG:HG2	1.64	0.40
8:OC:184:PRO:HG2	8:OC:398:MET:HE1	2.04	0.40
9:OD:8:GLN:O	9:OD:66:VAL:N	2.44	0.40
9:OD:124:ALA:HA	9:OD:130:LEU:HD21	2.03	0.40
8:OG:16:ILE:HD13	8:OG:16:ILE:HA	1.97	0.40
8:OG:88:HIS:ND1	8:OG:90:GLU:HG2	2.36	0.40
9:OH:294:PHE:HZ	36:Y4:89:ILE:CD1	2.33	0.40
9:OH:294:PHE:CD1	9:OH:294:PHE:C	2.99	0.40
8:OI:101:ASN:HA	8:OI:144:GLY:N	2.36	0.40
9:OJ:228:LEU:HD21	9:OJ:300:MET:SD	2.62	0.40
8:OK:1:MET:CE	8:OK:50:ASN:HB3	2.51	0.40
8:OK:31:GLN:O	8:OK:34:GLY:N	2.54	0.40
8:OK:326:LYS:NZ	9:OL:218:THR:O	2.30	0.40
9:OL:87:PRO:HD2	9:PL:281:TYR:CE2	2.57	0.40
9:OL:102:ALA:HB2	9:OL:398:TYR:CD2	2.55	0.40
8:OM:129:CYS:SG	8:OM:132:LEU:HB2	2.61	0.40
9:OP:124:ALA:O	9:OP:130:LEU:HD11	2.21	0.40
27:P5:52:GLU:OE2	25:V:325:THR:HB	2.21	0.40
9:PD:133:PHE:HB2	9:PD:164:MET:HE1	2.03	0.40
9:PF:50:TYR:HE2	9:PF:241:ARG:HD3	1.86	0.40
9:PF:172:SER:HB2	9:PF:203:ASP:OD1	2.21	0.40
8:PG:350:GLY:HA2	9:PH:179:VAL:HG22	2.03	0.40
9:PJ:324:LYS:HE2	8:PK:222:PRO:C	2.47	0.40
8:PK:6:SER:HA	8:PK:136:LEU:O	2.22	0.40
9:PL:361:LEU:HD12	9:PL:361:LEU:HA	1.92	0.40
8:PM:111:GLY:O	8:PM:115:VAL:HG23	2.21	0.40
9:PN:273:LEU:O	9:PN:292:GLN:NE2	2.54	0.40
8:PO:132:LEU:HD23	8:PO:132:LEU:HA	1.74	0.40
28:Q1:123:ILE:HD11	12:S6:425:TYR:CD1	2.55	0.40
28:Q3:163:ARG:NH2	12:S7:129:GLN:HE22	2.19	0.40
28:Q4:19:GLU:HA	28:Q4:23:PRO:CD	2.52	0.40
28:Q4:145:ARG:NH2	12:S8:57:LYS:HG3	2.31	0.40
9:QB:284:LEU:HA	9:QB:288:GLU:OE1	2.21	0.40
8:QC:60:LYS:HE2	8:QC:60:LYS:HB3	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QD:236:VAL:HG23	9:QD:237:THR:HG23	2.04	0.40
9:QD:244:GLY:N	9:QD:247:ASN:OD1	2.55	0.40
8:QE:3:GLU:O	8:QE:133:GLN:N	2.50	0.40
9:QF:21:TRP:CZ3	9:QF:24:ILE:HD11	2.56	0.40
9:QF:135:LEU:HD12	9:QF:136:THR:N	2.36	0.40
9:QL:213:ARG:O	9:QL:216:LYS:NZ	2.45	0.40
9:QN:266:PHE:HB3	9:QN:368:ILE:HG23	2.03	0.40
9:QN:407:GLU:HA	9:QN:410:GLU:HG2	2.03	0.40
9:QP:208:TYR:O	9:QP:212:PHE:N	2.46	0.40
9:QP:233:MET:HB3	9:QP:233:MET:HE3	1.91	0.40
11:R1:162:LEU:HD23	11:R1:162:LEU:HA	1.95	0.40
11:R1:380:LYS:HE2	11:R1:380:LYS:HB2	1.92	0.40
11:R2:315:HIS:CE1	11:R3:205:PRO:HG3	2.57	0.40
11:R3:96:LYS:HE3	11:R3:96:LYS:HB3	1.93	0.40
11:R3:328:GLU:HG2	11:R4:182:THR:HG22	2.02	0.40
11:R4:370:LEU:HA	11:R4:373:ILE:HG22	2.03	0.40
8:RC:339:ARG:NE	8:RC:339:ARG:O	2.54	0.40
8:RE:136:LEU:HD11	8:RE:169:PHE:HE2	1.87	0.40
9:RF:156:ARG:HG3	9:RF:195:ASN:HB3	2.04	0.40
9:RF:294:PHE:CE2	9:RF:333:VAL:HG11	2.56	0.40
9:RF:407:GLU:HA	9:RF:410:GLU:HG2	2.03	0.40
8:RG:167:LEU:HD23	8:RG:202:PHE:CE2	2.57	0.40
9:RL:323:MET:HB2	9:RL:324:LYS:HZ3	1.86	0.40
9:RN:344:TRP:H	9:RN:344:TRP:CD1	2.40	0.40
8:RO:319:TYR:CE1	8:RO:328:VAL:HG22	2.57	0.40
12:S0:275:ARG:HA	12:S0:275:ARG:CZ	2.51	0.40
12:S1:250:ALA:HA	12:S1:310:ARG:NH2	2.36	0.40
12:S2:205:ARG:HE	12:S2:205:ARG:HB2	1.78	0.40
12:S2:260:ASP:OD1	12:S2:260:ASP:N	2.53	0.40
12:S3:394:LYS:HA	12:S3:394:LYS:HE2	2.03	0.40
12:S4:192:LEU:HB2	12:S4:226:ILE:CD1	2.48	0.40
12:S4:376:GLU:O	12:S4:380:GLU:HG2	2.21	0.40
12:S6:131:LYS:HA	12:S6:131:LYS:HD2	1.78	0.40
12:S7:49:PRO:HB2	12:S7:51:ARG:HE	1.86	0.40
12:S9:227:LEU:HD23	12:S9:227:LEU:HA	1.91	0.40
12:S9:400:LEU:O	12:S9:404:THR:HG23	2.21	0.40
12:S9:419:ARG:HD2	12:S9:419:ARG:HA	1.94	0.40
9:SB:257:MET:HB3	9:SB:266:PHE:CZ	2.57	0.40
8:SC:248:LEU:HD21	9:SD:222:TYR:HE2	1.87	0.40
9:SF:344:TRP:CH2	8:SG:400:ALA:HB3	2.57	0.40
9:SH:14:ASN:HD21	9:SH:67:ASP:HB2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:SJ:73:MET:HA	9:SJ:76:VAL:HB	2.03	0.40
9:SJ:274:THR:HG21	9:SJ:282:ARG:HE	1.87	0.40
9:SJ:416:ASN:HA	9:SJ:419:VAL:HG22	2.03	0.40
14:T3:124:LEU:HD23	14:T3:124:LEU:HA	1.86	0.40
14:T3:386:MET:HE1	30:W0:439:ASP:OD2	2.22	0.40
8:TA:49:PHE:HB2	8:TA:53:PHE:HD2	1.86	0.40
8:TA:319:TYR:CE2	8:TA:328:VAL:HG22	2.57	0.40
8:TC:253:THR:HA	8:TC:256:GLN:HG3	2.02	0.40
8:TC:287:SER:N	8:TC:290:GLU:OE2	2.55	0.40
9:TD:245:GLN:NE2	9:TD:355:ASP:OD1	2.53	0.40
8:TE:138:PHE:HA	8:TE:169:PHE:O	2.20	0.40
8:TG:16:ILE:HA	8:TG:228:ASN:OD1	2.21	0.40
9:TJ:55:THR:HB	9:UJ:283:ALA:HA	2.03	0.40
8:TK:371:VAL:HG12	8:TK:373:ARG:H	1.86	0.40
25:U:150:LYS:HE2	25:U:152:GLN:HE21	1.86	0.40
25:U:422:TYR:HE1	25:U:512:VAL:HG11	1.86	0.40
30:U0:201:ARG:HH11	30:U0:207:VAL:H	1.70	0.40
30:U0:462:LEU:HD23	30:U0:462:LEU:HA	1.91	0.40
30:U1:125:GLN:OE1	30:U1:125:GLN:HA	2.21	0.40
30:U1:282:GLY:HA2	30:U1:285:LYS:HE3	2.02	0.40
30:U5:232:LEU:O	30:U5:236:ILE:HG12	2.22	0.40
30:U6:232:LEU:HD22	30:U6:324:LEU:HD22	2.04	0.40
30:U6:253:ASP:HA	30:U6:256:ASP:OD1	2.20	0.40
30:U6:277:ILE:HD11	30:U7:387:TYR:CE1	2.56	0.40
30:U7:160:LEU:HD11	30:U7:247:GLN:HG3	2.03	0.40
30:U7:218:GLU:OE1	30:U7:473:ARG:NH2	2.44	0.40
30:U8:390:LYS:H	30:U8:390:LYS:HG2	1.60	0.40
9:UD:113:VAL:HA	9:UD:116:VAL:HG22	2.03	0.40
9:UF:270:PHE:CD2	9:UF:273:LEU:HD11	2.56	0.40
9:UF:284:LEU:HD12	9:UF:284:LEU:HA	1.87	0.40
9:UF:360:GLY:HA2	39:c:343:PHE:CZ	2.57	0.40
8:UI:276:ILE:HD11	8:UI:286:LEU:HD11	2.02	0.40
8:UK:263:PRO:HG3	9:UL:396:HIS:CD2	2.56	0.40
9:UL:12:CYS:SG	9:UL:169:VAL:HG21	2.61	0.40
9:UL:324:LYS:O	9:UL:328:GLU:HG2	2.21	0.40
9:UN:237:THR:O	9:UN:241:ARG:HG3	2.21	0.40
9:UN:406:MET:HE1	9:UN:410:GLU:CD	2.46	0.40
8:UO:250:VAL:HG13	8:UO:254:GLU:HB2	2.03	0.40
25:V:292:MET:HE2	25:V:292:MET:HB2	1.88	0.40
30:V1:263:ILE:HG13	30:V1:264:ASP:N	2.36	0.40
30:V2:153:LYS:HD3	30:V2:257:LYS:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:V4:149:LEU:HD11	30:V4:261:GLN:HB2	2.02	0.40
30:V4:198:ARG:HH12	30:V4:212:GLU:N	2.19	0.40
30:V6:103:ILE:O	30:V6:107:GLU:HG2	2.22	0.40
30:V7:387:TYR:HA	30:V7:390:LYS:HE2	2.04	0.40
30:V7:451:LEU:HD23	30:V7:451:LEU:HA	1.88	0.40
9:VB:61:PRO:HD3	9:VB:84:ILE:HG22	2.04	0.40
9:VB:220:PRO:HA	9:VB:224:ASP:OD2	2.22	0.40
9:VB:361:LEU:HD12	9:VB:361:LEU:HA	1.87	0.40
9:VB:363:MET:HE3	9:VB:364:SER:H	1.85	0.40
9:VD:41:ASP:OD1	9:VD:41:ASP:N	2.54	0.40
9:VD:143:THR:HB	52:VD:502:GDP:O1B	2.21	0.40
9:VF:213:ARG:NH1	9:VF:214:THR:OG1	2.55	0.40
9:VF:309:ARG:HG3	9:VF:426:GLN:HG3	2.03	0.40
9:VH:214:THR:HG1	9:VH:297:LYS:NZ	2.16	0.40
9:VH:279:GLN:HE21	9:VH:279:GLN:HB3	1.70	0.40
9:VH:325:GLU:H	8:VI:221:ARG:NH1	2.19	0.40
9:VH:347:ASN:CG	8:VI:178:SER:HB2	2.46	0.40
9:VH:372:THR:HA	9:VH:422:TYR:CE1	2.46	0.40
8:VI:320:ARG:HH21	8:VI:360:PRO:HA	1.87	0.40
9:VJ:279:GLN:HA	9:VJ:282:ARG:HD2	2.01	0.40
8:VK:172:TYR:OH	8:VK:390:ARG:NE	2.55	0.40
8:VM:115:VAL:HG22	8:VM:152:LEU:HD13	2.04	0.40
9:VN:170:VAL:HG11	9:VN:377:LEU:HD11	2.03	0.40
8:VO:16:ILE:HD13	8:VO:16:ILE:HA	1.96	0.40
30:W0:161:ASP:O	30:W0:165:THR:HG23	2.22	0.40
30:W2:244:ARG:HA	30:W2:247:GLN:OE1	2.22	0.40
30:W5:209:ASP:OD2	30:W5:346:ARG:NH2	2.54	0.40
30:W6:316:ARG:HD2	30:W6:316:ARG:HA	1.94	0.40
30:W7:210:ASN:O	30:W7:214:ASN:ND2	2.53	0.40
8:WA:168:GLU:OE2	8:WA:198:SER:HB2	2.21	0.40
9:WB:8:GLN:HB3	9:WB:65:LEU:HA	2.03	0.40
9:WB:46:ARG:O	9:WB:49:VAL:HG12	2.22	0.40
9:WB:314:ALA:HA	9:WB:350:LYS:HB3	2.04	0.40
9:WD:294:PHE:CE2	9:WD:333:VAL:HG21	2.56	0.40
8:WE:183:GLU:HG3	8:WE:184:PRO:HD3	2.04	0.40
9:WH:143:THR:OG1	9:WH:144:GLY:N	2.54	0.40
9:WH:321:MET:HB2	8:WI:221:ARG:NH2	2.35	0.40
8:WK:167:LEU:HD21	8:WK:255:PHE:HZ	1.86	0.40
9:WL:164:MET:HE3	9:WL:164:MET:HB2	1.56	0.40
8:WO:236:SER:O	8:WO:243:ARG:NH2	2.54	0.40
8:WO:408:TYR:HB3	8:WO:413:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:WP:306:ARG:NH2	9:WP:337:ASN:HD21	2.18	0.40
33:X4:268:SER:O	33:X4:268:SER:OG	2.37	0.40
34:X8:25:LYS:HB2	34:X8:27:LYS:NZ	2.31	0.40
34:X8:150:VAL:O	34:X8:151:LYS:HG3	2.21	0.40
35:XB:15:TYR:CE2	35:XB:17:ILE:HD11	2.56	0.40
35:XE:27:LYS:HA	35:XE:59:ILE:HG22	2.04	0.40
35:XG:35:LYS:HE2	35:XG:35:LYS:HB3	1.88	0.40
35:XG:40:ASN:O	35:XG:43:GLN:NE2	2.55	0.40
31:Y:12:ASN:HD21	31:Y:14:ASN:HB2	1.87	0.40
31:Y:94:GLN:OE1	31:Y:94:GLN:N	2.47	0.40
36:Y0:19:ILE:HG22	36:Y0:20:MET:N	2.35	0.40
36:Y1:18:PRO:C	36:Y1:19:ILE:HD12	2.45	0.40
31:Z:506:GLU:N	31:Z:506:GLU:OE2	2.54	0.40
31:Z:724:MET:HA	31:Z:724:MET:HE3	2.03	0.40
40:a1:157:ASP:CG	40:a1:158:VAL:H	2.30	0.40
39:b:326:LYS:HE2	39:b:326:LYS:HB2	1.76	0.40
39:b:486:GLN:O	39:b:490:VAL:HG12	2.22	0.40
41:b2:151:LEU:HB2	41:b2:227:LEU:HD23	2.03	0.40
41:b3:151:LEU:O	41:b3:155:LEU:HD22	2.21	0.40
39:c:110:GLU:O	39:c:113:LYS:HG3	2.21	0.40
39:c:335:LEU:O	39:c:338:GLN:HG2	2.21	0.40
39:c:463:GLU:HA	39:c:466:LYS:HE3	2.03	0.40
42:e:256:LEU:HD21	42:e:264:LEU:HD13	2.04	0.40
42:f:438:GLU:HG2	42:f:440:GLU:H	1.87	0.40
43:h:187:ARG:HE	43:h:188:LEU:N	2.19	0.40
44:h1:54:THR:O	44:h1:90:TRP:HA	2.21	0.40
44:h4:49:GLN:N	44:h4:92:TYR:O	2.52	0.40
4:j1:180:MET:HE2	4:j1:180:MET:HB3	1.85	0.40
43:k:9:SER:N	43:k:12:ASN:HD22	2.18	0.40
2:1:387:LYS:HG3	2:1:388:SER:O	2.22	0.40
2:2:467:LEU:HD11	8:IO:372:GLN:N	2.37	0.40
3:3:387:LYS:O	3:3:390:MET:HE3	2.22	0.40
3:4:460:GLN:HA	3:4:463:GLU:HG2	2.04	0.40
4:6:221:ARG:HH21	30:V8:425:ASP:HA	1.87	0.40
4:6:331:ILE:HG21	4:6:340:PHE:CD1	2.57	0.40
1:7:51:TRP:CD1	1:7:52:HIS:H	2.39	0.40
1:7:217:LEU:HD13	1:7:217:LEU:HA	1.96	0.40
7:A1:143:ILE:O	7:A1:147:MET:HG2	2.22	0.40
7:A2:370:LEU:O	7:A2:374:GLU:HG2	2.21	0.40
7:A5:88:THR:HG23	7:A5:164:ASN:HD22	1.87	0.40
7:A5:168:LYS:HE2	7:A5:168:LYS:HB2	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AE:36:MET:HE2	8:AE:36:MET:HB3	1.96	0.40
9:AF:44:LEU:HD23	9:AF:44:LEU:HA	1.92	0.40
9:AF:242:PHE:CD1	9:AF:356:ILE:HD11	2.57	0.40
9:AF:284:LEU:HD23	9:AF:284:LEU:HA	1.91	0.40
9:AF:347:ASN:OD1	8:AG:178:SER:HB2	2.21	0.40
8:AG:217:LEU:HB2	8:AG:219:ILE:HG22	2.03	0.40
9:AJ:232:THR:HG21	9:AJ:300:MET:SD	2.61	0.40
9:AL:293:MET:HE3	9:AL:293:MET:HB2	1.84	0.40
8:AM:157:LEU:HD12	8:AM:157:LEU:HA	1.95	0.40
8:AM:258:ASN:ND2	9:AN:179:VAL:H	2.12	0.40
8:AO:427:ALA:HA	8:AO:430:LYS:HZ2	1.86	0.40
10:B:303:MET:HE1	8:HA:364:PRO:CB	2.49	0.40
11:B1:247:ILE:O	11:B1:251:ASN:ND2	2.54	0.40
11:B1:268:ARG:O	11:B1:272:MET:HG2	2.22	0.40
11:B1:294:GLN:O	11:B1:298:ARG:HG3	2.21	0.40
11:B2:103:LEU:HD12	11:B2:103:LEU:HA	1.87	0.40
11:B2:411:PHE:O	11:B2:412:THR:HG22	2.21	0.40
11:B3:104:GLN:HG2	28:Q3:47:VAL:HG22	2.02	0.40
11:B3:119:LEU:HD11	11:B3:389:LYS:HE3	2.04	0.40
11:B3:202:LYS:HG2	11:B4:315:HIS:HB3	2.03	0.40
11:B3:401:ALA:HB3	12:S7:309:LEU:HD21	2.04	0.40
11:B4:23:LEU:HD23	11:B4:23:LEU:HA	1.86	0.40
9:BB:6:HIS:ND1	9:BB:134:GLN:HG3	2.37	0.40
9:BD:20:PHE:HB2	9:BD:233:MET:HE3	2.03	0.40
9:BD:430:ALA:HB1	8:BE:397:LEU:HD11	2.03	0.40
8:BG:121:ARG:O	8:BG:125:LEU:HD23	2.22	0.40
9:BH:101:TRP:CD1	9:BH:146:GLY:HA2	2.57	0.40
8:BI:7:ILE:O	8:BI:9:VAL:HG23	2.22	0.40
8:BM:121:ARG:HD2	8:BM:121:ARG:HA	1.51	0.40
8:BO:88:HIS:O	8:BO:91:GLN:HG2	2.22	0.40
12:C1:180:ARG:NH2	12:C1:326:GLU:OE2	2.54	0.40
12:C1:351:ILE:O	12:C1:355:VAL:HG23	2.22	0.40
12:C1:377:MET:HE2	28:Q1:76:TRP:CD1	2.56	0.40
12:C2:293:THR:HG21	12:C3:413:ARG:HG2	2.03	0.40
9:CD:377:LEU:HG	9:CD:380:ARG:NH2	2.36	0.40
8:CE:336:LYS:HA	8:CE:336:LYS:HD2	1.85	0.40
9:CJ:247:ASN:HD22	9:CJ:247:ASN:HA	1.66	0.40
8:CK:157:LEU:HA	8:CK:157:LEU:HD23	1.85	0.40
9:CL:63:ALA:O	9:CL:89:ASN:ND2	2.55	0.40
9:CL:152:ILE:HD12	9:CL:152:ILE:HA	1.77	0.40
8:CM:75:VAL:O	8:CM:79:ARG:HG3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:106:TYR:CD2	9:CN:403:MET:HE3	2.56	0.40
9:CN:170:VAL:HG11	9:CN:377:LEU:HD11	2.03	0.40
9:CP:73:MET:HE2	9:CP:92:PHE:HB3	2.03	0.40
9:CP:305:PRO:HG2	9:CP:306:ARG:HH22	1.86	0.40
8:CQ:297:GLU:HG3	8:CQ:299:ALA:N	2.36	0.40
14:D1:68:PHE:HA	14:D1:71:ARG:NH2	2.37	0.40
14:D4:24:ARG:NE	14:D4:26:GLU:HB3	2.35	0.40
9:DB:48:ASN:OD1	9:DB:48:ASN:N	2.55	0.40
8:DC:6:SER:HB2	8:DC:65:ALA:HA	2.03	0.40
8:DC:114:ILE:HD12	8:DC:114:ILE:HA	1.95	0.40
8:DC:318:LEU:HB2	8:DC:376:CYS:HB3	2.03	0.40
8:DE:328:VAL:HG11	8:DE:353:VAL:HG11	2.04	0.40
8:DG:248:LEU:HD23	8:DG:248:LEU:HA	1.95	0.40
8:DG:262:TYR:HD2	8:DG:265:ILE:HD12	1.85	0.40
8:DG:363:VAL:HG13	8:DG:366:GLY:HA3	2.03	0.40
9:DH:128:ASP:OD1	9:DH:129:CYS:N	2.54	0.40
8:DK:167:LEU:HD23	8:DK:202:PHE:HE2	1.86	0.40
9:DN:7:LEU:N	9:DN:134:GLN:O	2.44	0.40
8:DO:395:PHE:CD2	8:DO:422:ARG:HD3	2.57	0.40
8:DQ:56:THR:HA	8:EO:285:GLN:HB2	2.03	0.40
8:EA:90:GLU:HG2	8:EA:121:ARG:NH1	2.36	0.40
9:ED:11:GLN:HG2	9:ED:72:THR:HG21	2.04	0.40
9:ED:86:ARG:HG3	9:FD:281:TYR:CD1	2.57	0.40
9:EH:60:VAL:HG11	9:FH:281:TYR:HB3	2.03	0.40
9:EJ:164:MET:HA	9:EJ:164:MET:HE2	2.03	0.40
9:EJ:231:ALA:HB2	31:Y:396:PHE:HZ	1.86	0.40
8:EK:225:THR:H	8:EK:225:THR:HG23	1.61	0.40
8:EO:313:MET:HG2	8:EO:344:VAL:HG21	2.03	0.40
8:FA:102:ASN:ND2	8:FA:105:ARG:HG3	2.36	0.40
8:FA:288:VAL:HG13	8:FA:319:TYR:CE1	2.57	0.40
8:FA:326:LYS:O	8:FA:326:LYS:HD3	2.20	0.40
9:FB:255:VAL:HA	8:FC:407:TRP:CE2	2.57	0.40
8:FC:220:GLU:OE2	8:FC:221:ARG:HG3	2.22	0.40
8:FC:293:ASN:OD1	8:FC:294:ALA:N	2.54	0.40
9:FF:154:LYS:HE2	9:FF:154:LYS:HB3	1.87	0.40
8:FG:70:LEU:HD23	8:FG:70:LEU:HA	1.88	0.40
9:FH:267:MET:HE3	9:FH:301:ALA:HB3	2.03	0.40
9:FH:293:MET:HE3	9:FH:294:PHE:N	2.37	0.40
8:FI:70:LEU:HD23	8:FI:70:LEU:HA	1.94	0.40
9:FJ:188:SER:O	9:FJ:192:LEU:HD12	2.21	0.40
8:FK:224:TYR:O	8:FK:228:ASN:N	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FM:322:ASP:OD2	8:FM:373:ARG:NH2	2.55	0.40
9:FN:255:VAL:HG23	8:FO:407:TRP:CG	2.56	0.40
8:FO:138:PHE:HA	8:FO:169:PHE:O	2.21	0.40
9:GB:88:ASP:OD1	9:GB:88:ASP:N	2.45	0.40
9:GD:204:ASN:ND2	52:GD:502:GDP:HN22	2.20	0.40
8:GE:144:GLY:O	8:GE:148:GLY:N	2.43	0.40
8:GE:357:TYR:HB2	49:y:109:TYR:CE1	2.56	0.40
8:GG:8:HIS:CD2	8:GG:8:HIS:H	2.39	0.40
8:GG:295:CYS:SG	8:GG:375:VAL:HG23	2.61	0.40
9:GH:135:LEU:HD23	9:GH:152:ILE:HD11	2.03	0.40
9:GH:153:SER:HA	9:GH:195:ASN:HD22	1.86	0.40
9:GJ:46:ARG:NH2	8:GK:73:THR:HG22	2.37	0.40
9:GL:403:MET:HG3	9:GL:404:ASP:O	2.22	0.40
8:GM:302:MET:HE3	8:GM:302:MET:HB3	1.97	0.40
8:GO:88:HIS:HE2	8:HO:284:GLU:HG2	1.86	0.40
9:HF:6:HIS:HD2	9:HF:20:PHE:CE2	2.39	0.40
9:HF:109:GLY:O	9:HF:113:VAL:HG13	2.21	0.40
9:HH:293:MET:HE2	9:HH:293:MET:HB2	1.81	0.40
8:HI:172:TYR:CZ	8:HI:387:ALA:HB1	2.57	0.40
9:HL:323:MET:HB3	9:HL:323:MET:HE2	1.71	0.40
9:HL:341:PHE:HB3	9:HL:348:ASN:ND2	2.36	0.40
8:HM:191:THR:HA	8:HM:194:THR:HG22	2.03	0.40
9:HN:350:LYS:HE3	9:HN:350:LYS:HA	2.03	0.40
8:HO:204:VAL:HA	8:HO:303:VAL:HG22	2.03	0.40
9:HP:30:ILE:HD11	9:HP:47:ILE:HD11	2.02	0.40
9:IB:330:MET:CE	9:IB:349:VAL:HB	2.52	0.40
9:ID:296:ALA:O	9:ID:299:MET:HE2	2.22	0.40
9:IH:332:ASN:HD21	36:Y1:150:PRO:HD3	1.86	0.40
9:IJ:106:TYR:CE2	9:IJ:403:MET:HE2	2.56	0.40
8:IM:88:HIS:HB3	9:JN:281:TYR:CE2	2.57	0.40
8:IM:227:LEU:O	8:IM:231:ILE:HG12	2.20	0.40
9:IN:3:GLU:N	9:IN:3:GLU:OE1	2.54	0.40
8:IO:317:MET:HE2	8:IO:317:MET:N	2.37	0.40
19:J1:235:LEU:HB3	8:LC:393:HIS:HB2	2.03	0.40
19:J2:238:MET:HA	19:J2:239:PRO:HD3	1.96	0.40
19:J3:203:LYS:HA	19:J3:206:LYS:HG2	2.02	0.40
19:J4:254:GLU:O	19:J4:258:GLN:HG2	2.20	0.40
19:J5:63:ILE:H	19:J5:63:ILE:HG13	1.64	0.40
9:JB:81:PHE:HD2	9:JB:84:ILE:HG21	1.86	0.40
8:JC:17:GLY:HA3	8:JC:67:PHE:CZ	2.57	0.40
8:JC:19:ALA:O	8:JC:22:GLU:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:JC:239:THR:HB	8:JC:243:ARG:NH1	2.37	0.40
9:JD:183:TYR:CZ	9:JD:408:PHE:HE2	2.40	0.40
9:JD:322:SER:HB2	8:JE:221:ARG:NE	2.37	0.40
8:JE:56:THR:HG22	8:KC:285:GLN:N	2.37	0.40
8:JE:153:LEU:O	8:JE:157:LEU:HD12	2.21	0.40
8:JG:54:SER:HB3	8:JG:64:ARG:NE	2.37	0.40
8:JG:136:LEU:CD1	8:JG:169:PHE:HE1	2.35	0.40
9:JH:254:ALA:O	9:JH:258:VAL:HG22	2.21	0.40
9:JL:137:HIS:HB2	9:JL:144:GLY:HA3	2.04	0.40
9:JL:267:MET:HG2	9:JL:299:MET:HE2	2.02	0.40
8:JM:246:GLY:HA2	8:JM:357:TYR:CD1	2.56	0.40
8:JO:401:LYS:HA	8:JO:401:LYS:HD3	1.92	0.40
9:JP:22:GLU:HA	9:JP:81:PHE:HD2	1.87	0.40
9:JP:65:LEU:HD22	9:JP:90:PHE:CE2	2.57	0.40
9:JP:182:PRO:HG3	9:JP:384:GLN:HG3	2.03	0.40
9:JP:234:SER:O	9:JP:241:ARG:NH2	2.55	0.40
8:KA:312:TYR:HE2	8:KA:341:ILE:HG23	1.85	0.40
9:KB:63:ALA:O	9:KB:89:ASN:ND2	2.55	0.40
9:KD:29:GLY:C	9:KD:30:ILE:HD13	2.47	0.40
9:KD:345:ILE:O	9:KD:348:ASN:ND2	2.52	0.40
8:KE:259:LEU:HD12	8:KE:259:LEU:HA	1.96	0.40
9:KF:9:ALA:HB1	9:KF:144:GLY:HA2	2.03	0.40
9:KF:42:LEU:HD12	9:KF:42:LEU:HA	1.86	0.40
9:KF:204:ASN:ND2	52:KF:502:GDP:N3	2.67	0.40
9:KH:159:TYR:HB3	9:KH:162:ARG:HG2	2.03	0.40
8:KI:132:LEU:O	8:KI:164:LYS:NZ	2.34	0.40
9:KJ:155:ILE:HD11	9:KJ:164:MET:HE1	2.03	0.40
9:KL:198:GLU:HB2	9:KL:266:PHE:CE2	2.56	0.40
9:KL:324:LYS:NZ	8:KM:214:ARG:HD2	2.36	0.40
8:KM:186:ASN:O	8:KM:190:THR:OG1	2.22	0.40
8:KM:302:MET:HB2	8:KM:302:MET:HE3	1.80	0.40
9:KN:156:ARG:HD2	9:KN:156:ARG:HA	1.73	0.40
8:KO:96:LYS:HB2	8:KO:96:LYS:HE2	1.82	0.40
8:KO:125:LEU:HD23	8:KO:125:LEU:HA	1.84	0.40
9:LB:267:MET:HE2	9:LB:301:ALA:HB3	2.03	0.40
9:LB:300:MET:H	9:LB:300:MET:HG2	1.77	0.40
8:LC:70:LEU:HD23	8:LC:70:LEU:HA	1.92	0.40
9:LD:198:GLU:HB3	9:LD:266:PHE:CE2	2.56	0.40
8:LG:30:ILE:HD12	8:LG:61:HIS:CD2	2.57	0.40
8:LG:108:TYR:HB2	8:LG:411:GLU:OE2	2.22	0.40
8:LM:241:SER:OG	8:LM:250:VAL:O	2.28	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LN:69:GLU:OE1	9:LN:72:THR:OG1	2.40	0.40
9:LN:299:MET:HE1	9:LN:367:PHE:HE2	1.86	0.40
8:LO:157:LEU:HD22	8:LO:166:LYS:HD3	2.03	0.40
8:LO:412:GLY:HA2	43:k:118:ALA:HB1	2.04	0.40
17:M:240:VAL:O	17:M:244:MET:HG2	2.21	0.40
17:M:313:ASP:N	17:M:313:ASP:OD1	2.53	0.40
8:MC:288:VAL:HB	8:MC:327:ASP:HB3	2.04	0.40
9:MF:20:PHE:HA	9:MF:230:SER:HB3	2.03	0.40
8:MG:91:GLN:O	8:MG:93:ILE:HG13	2.22	0.40
8:MG:315:CYS:HB3	8:MG:317:MET:HE2	2.02	0.40
9:MH:35:THR:OG1	9:MH:37:HIS:NE2	2.49	0.40
9:MH:68:LEU:HD23	9:MH:68:LEU:HA	1.83	0.40
9:MH:128:ASP:OD1	9:MH:129:CYS:N	2.53	0.40
8:MI:231:ILE:O	8:MI:235:VAL:HG23	2.22	0.40
9:ML:139:LEU:HD12	9:ML:170:VAL:HG12	2.03	0.40
8:MM:76:ASP:OD1	33:X5:14:VAL:HG21	2.22	0.40
8:MO:393:HIS:O	8:MO:397:LEU:HD22	2.22	0.40
9:MP:276:ARG:HD3	23:Q:321:ALA:HB1	2.04	0.40
8:NA:1:MET:HE3	8:NA:1:MET:HB2	1.83	0.40
8:NA:122:ILE:HG13	8:NA:123:ARG:N	2.36	0.40
9:NB:21:TRP:CZ2	9:NB:63:ALA:HB2	2.56	0.40
9:NB:83:GLN:O	9:OB:281:TYR:OH	2.23	0.40
8:NC:31:GLN:HG2	8:NC:34:GLY:H	1.86	0.40
8:NC:377:MET:SD	8:NC:378:LEU:N	2.95	0.40
9:ND:111:GLU:HA	36:Y4:168:LYS:NZ	2.36	0.40
8:NE:325:PRO:HB2	9:NF:208:TYR:OH	2.22	0.40
9:NF:303:CYS:HA	9:NF:376:GLU:OE2	2.22	0.40
9:NF:322:SER:HB3	8:NG:221:ARG:CD	2.46	0.40
8:NG:248:LEU:HD11	9:NH:222:TYR:HE2	1.86	0.40
8:NI:174:ALA:HB3	8:NI:177:VAL:O	2.21	0.40
9:NJ:68:LEU:HD23	9:NJ:68:LEU:HA	1.86	0.40
9:NJ:304:ASP:OD1	9:NJ:306:ARG:NH1	2.54	0.40
8:NM:112:LYS:HA	8:NM:115:VAL:HG23	2.03	0.40
8:NM:235:VAL:HA	8:NM:238:ILE:HG22	2.03	0.40
8:NM:263:PRO:HG3	9:NN:396:HIS:CD2	2.56	0.40
8:NM:332:ILE:HA	8:NM:335:ILE:HG22	2.04	0.40
9:NN:231:ALA:HB1	9:NN:270:PHE:HE2	1.85	0.40
9:NP:324:LYS:HE3	9:NP:325:GLU:HG3	2.02	0.40
24:O3:79:TYR:HE1	30:W6:47:TYR:HD2	1.70	0.40
25:O5:486:SER:OG	25:O5:488:SER:OG	2.27	0.40
9:OB:247:ASN:ND2	8:OC:74:VAL:HG22	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OD:118:ASP:OD1	9:OD:121:ARG:NH2	2.37	0.40
9:OD:306:ARG:HD2	9:OD:306:ARG:C	2.46	0.40
8:OE:209:ILE:HG21	8:OE:209:ILE:HD13	1.74	0.40
9:OF:274:THR:HB	9:OF:278:SER:HB2	2.02	0.40
9:OF:317:PHE:HB2	9:OF:353:VAL:HG22	2.03	0.40
8:OG:4:CYS:SG	8:OG:136:LEU:HD22	2.62	0.40
9:OH:63:ALA:HB3	9:OH:85:PHE:CE1	2.57	0.40
9:OH:286:VAL:HG13	9:OH:289:LEU:HD12	2.03	0.40
9:OH:344:TRP:HZ3	8:OI:403:ALA:HB2	1.87	0.40
8:OI:111:GLY:O	8:OI:115:VAL:HG23	2.21	0.40
8:OI:335:ILE:HA	8:OI:338:LYS:HG3	2.02	0.40
9:OJ:216:LYS:HD2	9:OJ:216:LYS:O	2.21	0.40
8:OK:229:ARG:HH11	8:OK:363:VAL:HG11	1.87	0.40
8:OM:32:PRO:HA	8:OM:83:TYR:CE2	2.57	0.40
8:OM:121:ARG:HH21	8:OM:124:LYS:HB2	1.86	0.40
8:OM:408:TYR:O	8:OM:413:MET:HB2	2.21	0.40
9:ON:375:GLN:HA	9:ON:378:PHE:HD2	1.86	0.40
8:OO:4:CYS:C	8:OO:5:ILE:HD13	2.47	0.40
8:OO:276:ILE:HD13	8:OO:276:ILE:HA	1.92	0.40
9:OP:246:LEU:HD22	9:OP:352:ALA:HA	2.03	0.40
9:PB:21:TRP:CD1	9:PB:85:PHE:HZ	2.39	0.40
9:PB:31:ASP:OD1	9:PB:35:THR:N	2.53	0.40
9:PB:202:ILE:HG23	9:PB:300:MET:HB3	2.04	0.40
9:PB:207:LEU:HB3	9:PB:225:LEU:HG	2.02	0.40
9:PD:261:PRO:HG3	8:PE:406:HIS:CD2	2.56	0.40
8:PG:32:PRO:O	8:PG:86:LEU:HB2	2.22	0.40
9:PH:86:ARG:NH2	9:QH:278:SER:HA	2.29	0.40
8:PI:7:ILE:HB	8:PI:137:ILE:HG22	2.02	0.40
8:PI:398:MET:HB2	8:PI:403:ALA:HB3	2.02	0.40
8:PM:260:VAL:O	9:PN:397:TRP:NE1	2.42	0.40
8:PM:287:SER:OG	8:PM:290:GLU:HG3	2.21	0.40
8:PO:154:MET:HE1	8:PO:194:THR:HA	2.03	0.40
9:PP:375:GLN:HA	9:PP:378:PHE:CD2	2.57	0.40
23:Q:299:GLN:HB2	23:Q:300:ARG:HH12	1.87	0.40
28:Q2:48:ARG:NE	12:S2:86:ASN:OD1	2.54	0.40
28:Q4:106:PRO:O	28:Q4:110:THR:HG23	2.21	0.40
8:QC:422:ARG:HH12	8:QC:426:ALA:HB2	1.87	0.40
8:QE:260:VAL:O	9:QF:397:TRP:NE1	2.39	0.40
9:QH:327:ASP:O	9:QH:331:LEU:HD23	2.21	0.40
9:QJ:146:GLY:O	9:QJ:149:THR:OG1	2.37	0.40
8:QK:210:TYR:CE1	8:QK:227:LEU:HD11	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:QL:7:LEU:HD13	9:QL:64:VAL:HB	2.02	0.40
9:QN:299:MET:HG3	9:QN:300:MET:N	2.36	0.40
8:QO:402:ARG:HA	8:QO:402:ARG:HD2	1.99	0.40
11:R2:127:ASP:OD2	11:R2:383:THR:OG1	2.39	0.40
11:R3:81:CYS:SG	11:R3:172:LEU:HD13	2.62	0.40
11:R4:289:GLU:HG3	11:R5:32:ARG:HD2	2.04	0.40
8:RC:218:ASP:OD1	8:RC:218:ASP:O	2.39	0.40
9:RD:51:TYR:HD2	9:RD:59:TYR:HB3	1.87	0.40
9:RF:12:CYS:O	9:RF:16:ILE:HG12	2.22	0.40
8:RG:277:SER:O	8:RG:281:ALA:N	2.40	0.40
8:RG:278:ALA:HA	8:RG:281:ALA:HB3	2.03	0.40
9:RH:125:GLU:OE1	9:SF:336:LYS:NZ	2.37	0.40
8:RI:195:LEU:HD22	8:RI:428:LEU:HD21	2.03	0.40
9:RJ:91:VAL:HG12	9:RJ:112:LEU:CD1	2.52	0.40
8:RK:2:ARG:HD3	8:RK:242:LEU:HB2	2.04	0.40
8:RK:21:TRP:CZ3	8:RK:52:PHE:HB3	2.56	0.40
8:RM:232:GLY:HA2	8:RM:235:VAL:HG22	2.03	0.40
8:RO:260:VAL:HB	9:RP:397:TRP:HZ2	1.86	0.40
9:RP:310:TYR:N	9:RP:340:TYR:O	2.41	0.40
12:S0:41:ASN:HD22	12:S8:330:ILE:HG21	1.86	0.40
12:S1:202:ARG:O	12:S1:205:ARG:NE	2.34	0.40
12:S1:361:ILE:HD13	12:S1:361:ILE:HA	1.91	0.40
12:S2:383:LYS:O	12:S2:387:LYS:HG2	2.21	0.40
8:SA:388:TRP:CD1	8:SA:388:TRP:H	2.38	0.40
9:SB:28:HIS:CG	9:SB:47:ILE:HG13	2.56	0.40
9:SD:68:LEU:HD23	9:SD:68:LEU:HA	1.92	0.40
8:SE:90:GLU:OE1	8:SE:121:ARG:NH1	2.47	0.40
9:SF:261:PRO:HG3	8:SG:406:HIS:CD2	2.57	0.40
8:SG:311:LYS:HE3	8:SG:311:LYS:HB3	1.97	0.40
8:SK:352:LYS:HA	9:SL:177:ASP:O	2.21	0.40
9:SL:289:LEU:HD21	9:SL:365:ALA:HB2	2.02	0.40
25:T:279:HIS:CE1	25:T:283:ASN:HD21	2.40	0.40
14:T0:91:LEU:HD12	14:T0:91:LEU:HA	1.94	0.40
14:T2:112:CYS:O	14:T2:115:SER:OG	2.32	0.40
14:T4:390:ALA:O	14:T4:394:LYS:HG2	2.22	0.40
8:TA:63:PRO:HG2	8:TA:87:PHE:HB3	2.03	0.40
9:TB:173:PRO:HG3	9:TB:380:ARG:HG2	2.03	0.40
8:TC:217:LEU:HD23	8:TC:217:LEU:HA	1.84	0.40
8:TC:233:GLN:HB3	8:TC:272:TYR:CE2	2.46	0.40
9:TD:9:ALA:HB3	9:TD:137:HIS:HB3	2.04	0.40
8:TG:234:ILE:HD11	8:TG:270:ALA:HB1	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:TI:101:ASN:ND2	8:TI:143:GLY:HA2	2.36	0.40
8:TK:89:PRO:HD2	8:UK:280:LYS:HZ2	1.87	0.40
9:TL:206:ALA:O	9:TL:210:ILE:HG12	2.21	0.40
25:U:502:ARG:NH1	31:X:644:TYR:O	2.49	0.40
25:U:516:MET:HA	25:U:516:MET:HE3	2.04	0.40
30:U3:415:ARG:HG3	30:U4:141:ASN:HD22	1.87	0.40
30:U4:319:GLU:O	30:U4:322:GLU:HG3	2.22	0.40
30:U6:182:GLU:O	30:U6:185:ASN:HB2	2.21	0.40
30:U6:333:TRP:HD1	30:U6:476:PHE:HE2	1.70	0.40
30:U8:336:PHE:CE2	30:U8:476:PHE:HB2	2.57	0.40
30:U8:411:VAL:CG2	30:U8:412:PRO:HD3	2.51	0.40
30:U8:462:LEU:O	30:U8:466:LYS:HG2	2.22	0.40
9:UD:24:ILE:HD12	9:UD:50:TYR:HD1	1.87	0.40
8:UE:129:CYS:SG	8:UE:132:LEU:HB2	2.61	0.40
9:UF:326:VAL:O	9:UF:330:MET:HB2	2.22	0.40
8:UI:326:LYS:HE3	9:UJ:212:PHE:CE1	2.57	0.40
9:UL:36:TYR:HE1	9:UL:43:GLN:HG2	1.86	0.40
9:UL:52:ASN:HB3	9:UL:60:VAL:HG23	2.04	0.40
9:UL:103:LYS:HB3	9:UL:103:LYS:HE2	1.89	0.40
9:UL:310:TYR:CD1	9:UL:371:SER:HB2	2.56	0.40
8:UM:47:ASP:CG	8:UM:50:ASN:HB2	2.47	0.40
8:UM:138:PHE:HA	8:UM:169:PHE:O	2.21	0.40
8:UO:20:CYS:HB3	8:UO:24:TYR:CZ	2.57	0.40
8:UO:229:ARG:HD3	8:UO:366:GLY:HA2	2.01	0.40
30:V1:202:ILE:HD12	30:V1:202:ILE:HA	1.96	0.40
30:V2:410:ASP:HB2	30:V2:412:PRO:HD2	2.04	0.40
30:V3:325:PHE:O	30:V3:328:LEU:HD12	2.21	0.40
30:V3:399:ARG:HD2	30:V3:402:ARG:CZ	2.52	0.40
30:V8:151:PHE:HD2	30:V8:152:TRP:CE3	2.39	0.40
30:V8:356:LYS:O	30:V8:360:GLN:HG2	2.21	0.40
8:VA:111:GLY:O	8:VA:115:VAL:HG23	2.21	0.40
9:VB:4:ILE:HD13	9:VB:4:ILE:HA	1.93	0.40
9:VB:415:MET:HE3	9:VB:415:MET:HB3	1.92	0.40
9:VD:137:HIS:HB2	9:VD:144:GLY:HA3	2.03	0.40
8:VE:80:THR:HA	8:VE:84:ARG:HD3	2.02	0.40
8:VE:264:ARG:HH12	8:VE:428:LEU:HA	1.87	0.40
9:VF:234:SER:O	9:VF:241:ARG:NH2	2.55	0.40
9:VH:1:MET:HE3	8:VI:96:LYS:HA	2.04	0.40
9:VH:275:SER:O	9:VH:279:GLN:HG2	2.22	0.40
8:VI:53:PHE:HB3	8:VI:61:HIS:HB3	2.04	0.40
8:VI:229:ARG:HH21	8:VI:363:VAL:CG2	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:VI:324:VAL:HB	8:VI:327:ASP:OD2	2.22	0.40
8:VI:332:ILE:HD11	8:VI:351:PHE:CD2	2.57	0.40
9:VJ:233:MET:SD	9:VJ:233:MET:N	2.88	0.40
8:VK:175:PRO:HA	8:VK:390:ARG:CZ	2.51	0.40
9:VL:32:PRO:O	9:VL:83:GLN:NE2	2.54	0.40
9:VL:403:MET:H	9:VL:403:MET:CE	2.27	0.40
9:VN:31:ASP:OD1	9:VN:35:THR:N	2.55	0.40
9:VN:237:THR:O	9:VN:241:ARG:HG3	2.21	0.40
8:VO:88:HIS:O	8:VO:91:GLN:HG2	2.21	0.40
8:VO:210:TYR:CE1	8:VO:227:LEU:HD11	2.57	0.40
31:W:399:GLU:OE2	31:W:399:GLU:N	2.43	0.40
30:W4:350:GLU:HG3	30:W4:462:LEU:HG	2.03	0.40
30:W4:364:ILE:HD13	30:W4:364:ILE:HA	1.93	0.40
9:WD:125:GLU:OE2	9:WD:159:TYR:OH	2.40	0.40
9:WD:255:VAL:HA	8:WE:407:TRP:CZ2	2.57	0.40
9:WF:84:ILE:HD12	9:WF:84:ILE:HA	1.92	0.40
8:WG:192:HIS:CE1	8:WG:196:GLU:OE1	2.75	0.40
9:WJ:242:PHE:HB2	9:WJ:354:CYS:SG	2.62	0.40
8:WK:130:THR:OG1	8:WK:131:GLY:N	2.55	0.40
9:WN:303:CYS:HB2	9:WN:373:ALA:HB1	2.04	0.40
31:X:667:LEU:HA	31:X:668:PRO:HD3	1.93	0.40
33:X5:26:LYS:HD3	33:X5:27:PHE:N	2.35	0.40
33:X5:98:ASP:C	33:X5:100:LYS:HZ3	2.22	0.40
34:X6:230:TYR:OH	34:X6:234:LEU:HD23	2.21	0.40
34:X7:203:TYR:OH	34:X7:229:LEU:O	2.31	0.40
34:X8:203:TYR:OH	34:X8:231:PRO:HD3	2.22	0.40
35:XC:37:ILE:HD11	35:XC:161:ARG:HH12	1.86	0.40
37:YB:23:SER:HB3	37:YB:29:LYS:NZ	2.36	0.40
37:YB:74:LYS:HA	37:YB:74:LYS:HD3	1.77	0.40
31:Z:217:ASP:OD1	31:Z:217:ASP:N	2.55	0.40
31:Z:452:PHE:CD2	31:Z:467:GLU:HB2	2.57	0.40
31:Z:667:LEU:HA	31:Z:668:PRO:HD3	1.92	0.40
38:Z1:152:LYS:HE3	38:Z1:152:LYS:HB2	1.67	0.40
40:a3:24:LEU:O	40:a3:27:GLN:HG2	2.22	0.40
39:a6:78:THR:HA	39:a6:91:ILE:HA	2.02	0.40
39:b:338:GLN:O	39:b:342:GLU:HG2	2.22	0.40
39:b:387:ASP:O	39:b:390:ARG:HG3	2.21	0.40
41:b5:159:GLU:OE1	41:b5:163:ARG:NH2	2.54	0.40
42:f:227:GLY:HA3	42:f:248:LYS:HB3	2.02	0.40
42:g:19:VAL:C	42:g:20:ILE:HD13	2.46	0.40
42:g:383:MET:HA	42:g:383:MET:HE3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:g:470:LYS:NZ	42:g:475:GLU:OE1	2.43	0.40
42:g:591:MET:HE3	42:g:591:MET:HB3	1.93	0.40
43:i:196:VAL:HG13	43:i:200:LEU:HD23	2.02	0.40
46:i2:1356:GLY:HA2	46:i2:1396:TYR:CE2	2.57	0.40
46:i4:1432:GLU:HG2	46:i4:1496:TYR:HD1	1.86	0.40
47:p:443:MET:HA	47:p:443:MET:CE	2.39	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains

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 532 ligands modelled in this entry, 178 are monoatomic - leaving 354 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	$\#\|Z\| > 2$
52	GDP	TJ	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	7 (15%)
52	GDP	UF	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.78	6 (13%)
50	GTP	SA	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.56	9 (18%)
50	GTP	PK	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.59	9 (18%)
52	GDP	KP	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	6 (13%)
52	GDP	QP	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	8 (17%)
50	GTP	FE	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.57	8 (16%)
52	GDP	UJ	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	6 (13%)
52	GDP	ED	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	QD	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	DN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	WH	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	UD	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.78	7 (15%)
52	GDP	GL	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	PP	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	6 (13%)
50	GTP	MG	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.56	8 (16%)
52	GDP	AP	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	IL	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.79	7 (15%)
50	GTP	LC	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.61	8 (16%)
50	GTP	SG	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.54	8 (16%)
52	GDP	RD	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.79	7 (15%)
52	GDP	BF	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	HH	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.71	6 (13%)
50	GTP	KI	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.57	8 (16%)
50	GTP	MI	501	-	33,34,34	0.88	0	50,54,54	1.55	8 (16%)
50	GTP	NK	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.56	8 (16%)
52	GDP	DB	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
50	GTP	KK	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.61	8 (16%)
50	GTP	EO	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.57	8 (16%)
50	GTP	BK	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.60	8 (16%)
50	GTP	JQ	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.60	8 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
52	GDP	PN	502	-	29,30,30	1.15	2 (6%)	45,47,47	1.76	6 (13%)
52	GDP	AF	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.72	6 (13%)
50	GTP	NE	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.55	8 (16%)
50	GTP	UK	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.58	9 (18%)
52	GDP	HB	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
52	GDP	NH	502	-	29,30,30	1.12	3 (10%)	45,47,47	1.76	7 (15%)
50	GTP	EC	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.63	8 (16%)
52	GDP	NN	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
50	GTP	DO	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.58	8 (16%)
50	GTP	UI	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
52	GDP	TH	502	-	29,30,30	1.14	2 (6%)	45,47,47	1.76	7 (15%)
50	GTP	PO	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.57	9 (18%)
50	GTP	VA	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.59	9 (18%)
50	GTP	AC	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.58	8 (16%)
50	GTP	FK	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.55	8 (16%)
50	GTP	RK	501	-	33,34,34	0.99	3 (9%)	50,54,54	1.63	8 (16%)
52	GDP	QN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	AG	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.59	8 (16%)
52	GDP	IH	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.79	6 (13%)
52	GDP	CF	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	6 (13%)
50	GTP	WO	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.60	9 (18%)
52	GDP	BJ	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
50	GTP	CO	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.59	9 (18%)
52	GDP	LB	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	6 (13%)
52	GDP	TD	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
52	GDP	IB	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	JL	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	5 (11%)
50	GTP	EG	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.59	8 (16%)
52	GDP	UN	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	6 (13%)
50	GTP	GE	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.54	9 (18%)
50	GTP	CC	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.59	8 (16%)
52	GDP	OF	502	-	29,30,30	1.12	3 (10%)	45,47,47	1.79	7 (15%)
50	GTP	WG	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.60	8 (16%)
50	GTP	BE	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.62	9 (18%)
52	GDP	LD	502	-	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	$\#\|Z\|>2$
52	GDP	KL	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.73	5 (11%)
50	GTP	OI	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.56	9 (18%)
52	GDP	ID	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
50	GTP	NI	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.57	8 (16%)
52	GDP	KD	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	FL	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	EF	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
50	GTP	GC	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.57	9 (18%)
52	GDP	MP	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
52	GDP	SF	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
50	GTP	FC	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.59	9 (18%)
52	GDP	QJ	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	6 (13%)
50	GTP	RI	501	-	33,34,34	0.99	3 (9%)	50,54,54	1.62	9 (18%)
52	GDP	OP	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.79	7 (15%)
50	GTP	DG	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.60	9 (18%)
50	GTP	IO	501	-	33,34,34	0.87	1 (3%)	50,54,54	1.61	8 (16%)
50	GTP	EI	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.61	9 (18%)
52	GDP	HP	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	LM	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.57	8 (16%)
50	GTP	ME	501	-	33,34,34	0.89	1 (3%)	50,54,54	1.62	9 (18%)
50	GTP	DM	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.60	8 (16%)
52	GDP	DD	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
52	GDP	QH	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.78	6 (13%)
50	GTP	FA	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)
52	GDP	KH	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	BB	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	AH	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	6 (13%)
50	GTP	FM	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.56	8 (16%)
50	GTP	BG	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.60	8 (16%)
52	GDP	BP	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	6 (13%)
52	GDP	FJ	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	6 (13%)
52	GDP	PB	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	TA	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.56	9 (18%)
50	GTP	QG	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.63	8 (16%)
52	GDP	MN	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.76	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
50	GTP	EA	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.61	9 (18%)
52	GDP	BD	502	-	29,30,30	1.12	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	IN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	6 (13%)
52	GDP	VN	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.78	5 (11%)
50	GTP	FO	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.58	9 (18%)
52	GDP	RL	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	DF	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	5 (11%)
52	GDP	AJ	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	6 (13%)
50	GTP	IE	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.63	10 (20%)
52	GDP	LF	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
50	GTP	DE	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.58	8 (16%)
52	GDP	JH	502	-	29,30,30	1.18	3 (10%)	45,47,47	1.76	6 (13%)
52	GDP	NJ	502	-	29,30,30	1.12	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	NP	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	7 (15%)
50	GTP	HO	501	-	33,34,34	0.90	2 (6%)	50,54,54	1.60	9 (18%)
50	GTP	HA	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.56	8 (16%)
50	GTP	BM	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
50	GTP	OC	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.58	9 (18%)
50	GTP	QI	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.61	8 (16%)
50	GTP	GI	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.56	8 (16%)
50	GTP	IC	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.58	9 (18%)
50	GTP	QM	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.60	9 (18%)
50	GTP	MM	501	-	33,34,34	0.84	0	50,54,54	1.53	8 (16%)
52	GDP	OL	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	GF	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
50	GTP	EE	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.60	9 (18%)
50	GTP	TG	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.55	9 (18%)
52	GDP	LH	502	-	29,30,30	1.16	4 (13%)	45,47,47	1.72	7 (15%)
50	GTP	NC	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.56	9 (18%)
52	GDP	BH	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	EB	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
52	GDP	VJ	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	6 (13%)
52	GDP	DP	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	WD	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	6 (13%)
50	GTP	LI	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.59	8 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
50	GTP	MC	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.55	10 (20%)
50	GTP	CG	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.63	9 (18%)
52	GDP	FB	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
50	GTP	VC	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.59	9 (18%)
50	GTP	NG	501	-	33,34,34	0.89	1 (3%)	50,54,54	1.55	8 (16%)
52	GDP	GH	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
50	GTP	JO	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.60	8 (16%)
50	GTP	SK	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.55	8 (16%)
50	GTP	PM	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.57	9 (18%)
52	GDP	DH	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	6 (13%)
50	GTP	CQ	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.60	9 (18%)
50	GTP	GM	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.55	8 (16%)
52	GDP	RN	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
52	GDP	CN	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	6 (13%)
52	GDP	KF	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	6 (13%)
50	GTP	WI	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.60	9 (18%)
50	GTP	PI	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.61	9 (18%)
50	GTP	QO	501	-	33,34,34	0.93	0	50,54,54	1.56	10 (20%)
50	GTP	DK	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.61	8 (16%)
50	GTP	UE	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
52	GDP	GB	502	-	29,30,30	1.15	2 (6%)	45,47,47	1.71	7 (15%)
52	GDP	VD	502	-	29,30,30	1.12	3 (10%)	45,47,47	1.80	6 (13%)
50	GTP	PE	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.58	9 (18%)
52	GDP	LN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
50	GTP	OK	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.58	9 (18%)
52	GDP	MF	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
50	GTP	AM	501	-	33,34,34	0.89	1 (3%)	50,54,54	1.57	8 (16%)
52	GDP	IP	502	-	29,30,30	1.11	3 (10%)	45,47,47	1.79	8 (17%)
50	GTP	SC	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.58	8 (16%)
50	GTP	KO	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.58	8 (16%)
52	GDP	FD	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	6 (13%)
50	GTP	IK	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.65	9 (18%)
50	GTP	UG	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
52	GDP	RH	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	UM	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.59	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
52	GDP	FF	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	RJ	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	6 (13%)
50	GTP	JM	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.60	8 (16%)
50	GTP	MO	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.54	8 (16%)
52	GDP	SJ	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.71	7 (15%)
52	GDP	DJ	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	6 (13%)
50	GTP	VM	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.59	9 (18%)
50	GTP	AE	501	-	33,34,34	0.89	1 (3%)	50,54,54	1.62	8 (16%)
50	GTP	AO	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.59	8 (16%)
50	GTP	UC	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
52	GDP	JF	502	-	29,30,30	1.11	3 (10%)	45,47,47	1.85	8 (17%)
50	GTP	VG	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.59	9 (18%)
50	GTP	GG	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
52	GDP	AD	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
52	GDP	TN	502	-	29,30,30	1.14	2 (6%)	45,47,47	1.75	6 (13%)
50	GTP	MA	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.55	9 (18%)
52	GDP	AN	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
52	GDP	JP	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.73	6 (13%)
50	GTP	FI	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.57	8 (16%)
52	GDP	UH	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.79	6 (13%)
50	GTP	JC	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.60	9 (18%)
52	GDP	BL	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	NL	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	6 (13%)
52	GDP	CJ	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	HI	501	-	33,34,34	0.88	1 (3%)	50,54,54	1.58	8 (16%)
52	GDP	HL	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	6 (13%)
52	GDP	CL	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	6 (13%)
52	GDP	AL	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	ML	502	-	29,30,30	1.15	4 (13%)	45,47,47	1.75	7 (15%)
50	GTP	HM	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.58	8 (16%)
50	GTP	TC	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
50	GTP	CE	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.61	9 (18%)
50	GTP	LA	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.60	8 (16%)
50	GTP	UO	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.58	9 (18%)
52	GDP	ON	502	-	29,30,30	1.17	2 (6%)	45,47,47	1.75	6 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
52	GDP	EL	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	6 (13%)
52	GDP	JJ	502	-	29,30,30	1.13	4 (13%)	45,47,47	1.76	5 (11%)
50	GTP	JE	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.59	8 (16%)
52	GDP	VB	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	HG	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.55	8 (16%)
52	GDP	NB	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	LE	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.63	8 (16%)
52	GDP	JD	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	6 (13%)
52	GDP	LL	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.73	6 (13%)
52	GDP	JN	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	5 (11%)
50	GTP	NO	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.56	8 (16%)
52	GDP	GN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
52	GDP	IJ	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	6 (13%)
50	GTP	WM	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
50	GTP	RE	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.61	8 (16%)
52	GDP	WP	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
50	GTP	DI	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
52	GDP	CB	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
50	GTP	KM	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.59	8 (16%)
52	GDP	VF	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.76	5 (11%)
52	GDP	HJ	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.73	6 (13%)
52	GDP	CP	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	RP	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	SI	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.53	8 (16%)
50	GTP	OO	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.56	9 (18%)
50	GTP	QK	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.59	8 (16%)
50	GTP	GK	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.51	8 (16%)
50	GTP	WE	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.60	9 (18%)
52	GDP	QB	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	7 (15%)
50	GTP	LG	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.61	8 (16%)
52	GDP	UB	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.79	6 (13%)
52	GDP	VH	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
50	GTP	KC	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.58	8 (16%)
50	GTP	FG	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.55	8 (16%)
50	GTP	EK	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.61	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
52	GDP	MB	502	-	29,30,30	1.12	3 (10%)	45,47,47	1.72	6 (13%)
50	GTP	AI	501	-	33,34,34	0.88	1 (3%)	50,54,54	1.60	8 (16%)
50	GTP	UA	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.58	9 (18%)
52	GDP	PJ	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.78	7 (15%)
50	GTP	PC	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.55	9 (18%)
52	GDP	KB	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	6 (13%)
50	GTP	TM	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.56	9 (18%)
50	GTP	SE	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.55	9 (18%)
50	GTP	PG	501	-	33,34,34	0.87	0	50,54,54	1.58	10 (20%)
52	GDP	GD	502	-	29,30,30	1.21	3 (10%)	45,47,47	1.79	5 (11%)
50	GTP	DC	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
50	GTP	TI	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.56	8 (16%)
52	GDP	OH	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	WF	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	5 (11%)
52	GDP	PD	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	6 (13%)
50	GTP	KA	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.60	8 (16%)
50	GTP	BO	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.59	8 (16%)
50	GTP	RM	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.61	9 (18%)
50	GTP	LK	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.57	8 (16%)
50	GTP	SM	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.56	9 (18%)
50	GTP	KE	501	-	33,34,34	0.94	0	50,54,54	1.59	10 (20%)
50	GTP	KG	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.60	9 (18%)
52	GDP	JB	502	-	29,30,30	1.15	2 (6%)	45,47,47	1.75	7 (15%)
52	GDP	TL	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	WJ	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	5 (11%)
50	GTP	II	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.58	9 (18%)
50	GTP	EM	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.59	8 (16%)
50	GTP	HK	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
50	GTP	OM	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
50	GTP	LO	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.56	8 (16%)
52	GDP	LJ	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	6 (13%)
50	GTP	WK	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.56	9 (18%)
50	GTP	BI	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.60	8 (16%)
52	GDP	OJ	502	-	29,30,30	1.11	3 (10%)	45,47,47	1.81	8 (17%)
50	GTP	WC	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.59	8 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
52	GDP	HF	502	-	29,30,30	1.12	3 (10%)	45,47,47	1.74	7 (15%)
52	GDP	NF	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	BN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
52	GDP	PF	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	6 (13%)
52	GDP	MJ	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
50	GTP	RG	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.61	9 (18%)
50	GTP	TK	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.56	9 (18%)
50	GTP	CM	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.61	9 (18%)
50	GTP	CK	501	-	33,34,34	0.92	2 (6%)	50,54,54	1.63	9 (18%)
52	GDP	EH	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	6 (13%)
50	GTP	QC	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.62	8 (16%)
52	GDP	EN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	DL	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	6 (13%)
52	GDP	SH	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.73	6 (13%)
50	GTP	OA	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.58	9 (18%)
50	GTP	RO	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.59	9 (18%)
52	GDP	UL	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	WA	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)
50	GTP	JK	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.63	8 (16%)
50	GTP	AA	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.59	9 (18%)
50	GTP	HC	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.60	8 (16%)
50	GTP	TE	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
52	GDP	OD	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.78	7 (15%)
52	GDP	QF	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	KN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	PL	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	6 (13%)
50	GTP	JI	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.61	8 (16%)
52	GDP	PH	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	6 (13%)
50	GTP	IG	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.62	9 (18%)
50	GTP	DQ	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.60	8 (16%)
52	GDP	GJ	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	8 (17%)
52	GDP	SB	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
50	GTP	CI	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.60	8 (16%)
50	GTP	GA	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
50	GTP	HE	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
52	GDP	KJ	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
52	GDP	TF	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
50	GTP	VI	501	-	33,34,34	1.03	3 (9%)	50,54,54	1.62	9 (18%)
52	GDP	LP	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	7 (15%)
50	GTP	RC	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.59	9 (18%)
50	GTP	OE	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
52	GDP	MD	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.72	6 (13%)
52	GDP	WN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
50	GTP	MK	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.57	8 (16%)
50	GTP	NM	501	-	33,34,34	0.87	0	50,54,54	1.56	8 (16%)
52	GDP	VL	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	QL	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	HD	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	6 (13%)
52	GDP	FN	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
50	GTP	IM	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.59	8 (16%)
52	GDP	ND	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
52	GDP	OB	502	-	29,30,30	1.17	2 (6%)	45,47,47	1.81	6 (13%)
52	GDP	CH	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	6 (13%)
50	GTP	OG	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.60	9 (18%)
52	GDP	SD	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	AB	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	FH	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
52	GDP	EJ	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	6 (13%)
50	GTP	AK	501	-	33,34,34	0.87	1 (3%)	50,54,54	1.56	8 (16%)
50	GTP	BC	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.60	9 (18%)
52	GDP	SN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	WL	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	CD	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	6 (13%)
50	GTP	VO	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.59	8 (16%)
52	GDP	RF	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
52	GDP	WB	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
52	GDP	TB	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	8 (17%)
50	GTP	GO	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.56	8 (16%)
50	GTP	JG	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.59	8 (16%)
52	GDP	MH	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.72	6 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
50	GTP	VE	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.59	9 (18%)
52	GDP	SL	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
50	GTP	QE	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.60	9 (18%)
50	GTP	IA	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.58	9 (18%)
50	GTP	NA	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.57	9 (18%)
50	GTP	VK	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.62	8 (16%)
52	GDP	IF	502	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	6 (13%)
52	GDP	HN	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	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
52	GDP	TJ	502	-	-	1/16/32/32	0/3/3/3
52	GDP	UF	502	-	-	0/16/32/32	0/3/3/3
50	GTP	SA	501	-	-	8/22/38/38	0/3/3/3
50	GTP	PK	501	-	-	8/22/38/38	0/3/3/3
52	GDP	KP	502	-	-	2/16/32/32	0/3/3/3
52	GDP	QP	502	-	-	1/16/32/32	0/3/3/3
50	GTP	FE	501	-	-	5/22/38/38	0/3/3/3
52	GDP	UJ	502	-	-	1/16/32/32	0/3/3/3
52	GDP	ED	502	-	-	1/16/32/32	0/3/3/3
52	GDP	QD	502	-	-	1/16/32/32	0/3/3/3
52	GDP	DN	502	-	-	1/16/32/32	0/3/3/3
52	GDP	WH	502	-	-	1/16/32/32	0/3/3/3
52	GDP	UD	502	-	-	3/16/32/32	0/3/3/3
52	GDP	GL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	PP	502	-	-	1/16/32/32	0/3/3/3
50	GTP	MG	501	-	-	6/22/38/38	0/3/3/3
52	GDP	AP	502	-	-	1/16/32/32	0/3/3/3
52	GDP	IL	502	-	-	0/16/32/32	0/3/3/3
50	GTP	LC	501	-	-	6/22/38/38	0/3/3/3
50	GTP	SG	501	-	-	8/22/38/38	0/3/3/3
52	GDP	RD	502	-	-	0/16/32/32	0/3/3/3
52	GDP	BF	502	-	-	1/16/32/32	0/3/3/3
52	GDP	HH	502	-	-	0/16/32/32	0/3/3/3
50	GTP	KI	501	-	-	7/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
50	GTP	MI	501	-	-	6/22/38/38	0/3/3/3
50	GTP	NK	501	-	-	9/22/38/38	0/3/3/3
52	GDP	DB	502	-	-	1/16/32/32	0/3/3/3
50	GTP	KK	501	-	-	6/22/38/38	0/3/3/3
50	GTP	EO	501	-	-	8/22/38/38	0/3/3/3
50	GTP	BK	501	-	-	7/22/38/38	0/3/3/3
50	GTP	JQ	501	-	-	7/22/38/38	0/3/3/3
52	GDP	PN	502	-	-	3/16/32/32	0/3/3/3
52	GDP	AF	502	-	-	0/16/32/32	0/3/3/3
50	GTP	NE	501	-	-	7/22/38/38	0/3/3/3
50	GTP	UK	501	-	-	9/22/38/38	0/3/3/3
52	GDP	HB	502	-	-	1/16/32/32	0/3/3/3
52	GDP	NH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	EC	501	-	-	7/22/38/38	0/3/3/3
52	GDP	NN	502	-	-	4/16/32/32	0/3/3/3
50	GTP	DO	501	-	-	8/22/38/38	0/3/3/3
50	GTP	UI	501	-	-	8/22/38/38	0/3/3/3
52	GDP	TH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	PO	501	-	-	8/22/38/38	0/3/3/3
50	GTP	VA	501	-	-	8/22/38/38	0/3/3/3
50	GTP	AC	501	-	-	6/22/38/38	0/3/3/3
50	GTP	FK	501	-	-	8/22/38/38	0/3/3/3
50	GTP	RK	501	-	-	9/22/38/38	0/3/3/3
52	GDP	QN	502	-	-	1/16/32/32	0/3/3/3
50	GTP	AG	501	-	-	6/22/38/38	0/3/3/3
52	GDP	IH	502	-	-	0/16/32/32	0/3/3/3
52	GDP	CF	502	-	-	1/16/32/32	0/3/3/3
50	GTP	WO	501	-	-	6/22/38/38	0/3/3/3
52	GDP	BJ	502	-	-	0/16/32/32	0/3/3/3
50	GTP	CO	501	-	-	8/22/38/38	0/3/3/3
52	GDP	LB	502	-	-	1/16/32/32	0/3/3/3
52	GDP	TD	502	-	-	1/16/32/32	0/3/3/3
52	GDP	IB	502	-	-	2/16/32/32	0/3/3/3
52	GDP	JL	502	-	-	1/16/32/32	0/3/3/3
50	GTP	EG	501	-	-	7/22/38/38	0/3/3/3
52	GDP	UN	502	-	-	1/16/32/32	0/3/3/3
50	GTP	GE	501	-	-	7/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
50	GTP	CC	501	-	-	8/22/38/38	0/3/3/3
52	GDP	OF	502	-	-	2/16/32/32	0/3/3/3
50	GTP	WG	501	-	-	8/22/38/38	0/3/3/3
50	GTP	BE	501	-	-	8/22/38/38	0/3/3/3
52	GDP	LD	502	-	-	2/16/32/32	0/3/3/3
52	GDP	KL	502	-	-	1/16/32/32	0/3/3/3
50	GTP	OI	501	-	-	8/22/38/38	0/3/3/3
52	GDP	ID	502	-	-	0/16/32/32	0/3/3/3
50	GTP	NI	501	-	-	8/22/38/38	0/3/3/3
52	GDP	KD	502	-	-	1/16/32/32	0/3/3/3
52	GDP	FL	502	-	-	0/16/32/32	0/3/3/3
52	GDP	EF	502	-	-	1/16/32/32	0/3/3/3
50	GTP	GC	501	-	-	6/22/38/38	0/3/3/3
52	GDP	MP	502	-	-	2/16/32/32	0/3/3/3
52	GDP	SF	502	-	-	1/16/32/32	0/3/3/3
50	GTP	FC	501	-	-	8/22/38/38	0/3/3/3
52	GDP	QJ	502	-	-	0/16/32/32	0/3/3/3
50	GTP	RI	501	-	-	7/22/38/38	0/3/3/3
52	GDP	OP	502	-	-	1/16/32/32	0/3/3/3
50	GTP	DG	501	-	-	8/22/38/38	0/3/3/3
50	GTP	IO	501	-	-	8/22/38/38	0/3/3/3
50	GTP	EI	501	-	-	7/22/38/38	0/3/3/3
52	GDP	HP	502	-	-	1/16/32/32	0/3/3/3
50	GTP	LM	501	-	-	6/22/38/38	0/3/3/3
50	GTP	ME	501	-	-	5/22/38/38	0/3/3/3
50	GTP	DM	501	-	-	8/22/38/38	0/3/3/3
52	GDP	DD	502	-	-	1/16/32/32	0/3/3/3
52	GDP	QH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	FA	501	-	-	7/22/38/38	0/3/3/3
52	GDP	KH	502	-	-	1/16/32/32	0/3/3/3
52	GDP	BB	502	-	-	0/16/32/32	0/3/3/3
52	GDP	AH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	FM	501	-	-	8/22/38/38	0/3/3/3
50	GTP	BG	501	-	-	8/22/38/38	0/3/3/3
52	GDP	BP	502	-	-	1/16/32/32	0/3/3/3
52	GDP	FJ	502	-	-	1/16/32/32	0/3/3/3
52	GDP	PB	502	-	-	1/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
50	GTP	TA	501	-	-	8/22/38/38	0/3/3/3
50	GTP	QG	501	-	-	8/22/38/38	0/3/3/3
52	GDP	MN	502	-	-	2/16/32/32	0/3/3/3
50	GTP	EA	501	-	-	7/22/38/38	0/3/3/3
52	GDP	BD	502	-	-	1/16/32/32	0/3/3/3
52	GDP	IN	502	-	-	1/16/32/32	0/3/3/3
52	GDP	VN	502	-	-	1/16/32/32	0/3/3/3
50	GTP	FO	501	-	-	9/22/38/38	0/3/3/3
52	GDP	RL	502	-	-	0/16/32/32	0/3/3/3
52	GDP	DF	502	-	-	0/16/32/32	0/3/3/3
52	GDP	AJ	502	-	-	1/16/32/32	0/3/3/3
50	GTP	IE	501	-	-	8/22/38/38	0/3/3/3
52	GDP	LF	502	-	-	2/16/32/32	0/3/3/3
50	GTP	DE	501	-	-	7/22/38/38	0/3/3/3
52	GDP	JH	502	-	-	0/16/32/32	0/3/3/3
52	GDP	NJ	502	-	-	1/16/32/32	0/3/3/3
52	GDP	NP	502	-	-	1/16/32/32	0/3/3/3
50	GTP	HO	501	-	-	7/22/38/38	0/3/3/3
50	GTP	HA	501	-	-	9/22/38/38	0/3/3/3
50	GTP	BM	501	-	-	7/22/38/38	0/3/3/3
50	GTP	OC	501	-	-	8/22/38/38	0/3/3/3
50	GTP	QI	501	-	-	8/22/38/38	0/3/3/3
50	GTP	GI	501	-	-	4/22/38/38	0/3/3/3
50	GTP	IC	501	-	-	8/22/38/38	0/3/3/3
50	GTP	QM	501	-	-	8/22/38/38	0/3/3/3
50	GTP	MM	501	-	-	9/22/38/38	0/3/3/3
52	GDP	OL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	GF	502	-	-	0/16/32/32	0/3/3/3
50	GTP	EE	501	-	-	8/22/38/38	0/3/3/3
50	GTP	TG	501	-	-	8/22/38/38	0/3/3/3
52	GDP	LH	502	-	-	3/16/32/32	0/3/3/3
50	GTP	NC	501	-	-	6/22/38/38	0/3/3/3
52	GDP	BH	502	-	-	1/16/32/32	0/3/3/3
52	GDP	EB	502	-	-	1/16/32/32	0/3/3/3
52	GDP	VJ	502	-	-	1/16/32/32	0/3/3/3
52	GDP	DP	502	-	-	4/16/32/32	0/3/3/3
52	GDP	WD	502	-	-	1/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
50	GTP	LI	501	-	-	7/22/38/38	0/3/3/3
50	GTP	MC	501	-	-	6/22/38/38	0/3/3/3
50	GTP	CG	501	-	-	6/22/38/38	0/3/3/3
52	GDP	FB	502	-	-	1/16/32/32	0/3/3/3
50	GTP	VC	501	-	-	8/22/38/38	0/3/3/3
50	GTP	NG	501	-	-	9/22/38/38	0/3/3/3
52	GDP	GH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	JO	501	-	-	6/22/38/38	0/3/3/3
50	GTP	SK	501	-	-	8/22/38/38	0/3/3/3
50	GTP	PM	501	-	-	8/22/38/38	0/3/3/3
52	GDP	DH	502	-	-	0/16/32/32	0/3/3/3
50	GTP	CQ	501	-	-	8/22/38/38	0/3/3/3
50	GTP	GM	501	-	-	6/22/38/38	0/3/3/3
52	GDP	RN	502	-	-	0/16/32/32	0/3/3/3
52	GDP	CN	502	-	-	1/16/32/32	0/3/3/3
52	GDP	KF	502	-	-	1/16/32/32	0/3/3/3
50	GTP	WI	501	-	-	6/22/38/38	0/3/3/3
50	GTP	PI	501	-	-	8/22/38/38	0/3/3/3
50	GTP	QO	501	-	-	7/22/38/38	0/3/3/3
50	GTP	DK	501	-	-	6/22/38/38	0/3/3/3
50	GTP	UE	501	-	-	9/22/38/38	0/3/3/3
52	GDP	GB	502	-	-	1/16/32/32	0/3/3/3
52	GDP	VD	502	-	-	1/16/32/32	0/3/3/3
50	GTP	PE	501	-	-	8/22/38/38	0/3/3/3
52	GDP	LN	502	-	-	1/16/32/32	0/3/3/3
50	GTP	OK	501	-	-	8/22/38/38	0/3/3/3
52	GDP	MF	502	-	-	1/16/32/32	0/3/3/3
50	GTP	AM	501	-	-	9/22/38/38	0/3/3/3
52	GDP	IP	502	-	-	1/16/32/32	0/3/3/3
50	GTP	SC	501	-	-	7/22/38/38	0/3/3/3
50	GTP	KO	501	-	-	5/22/38/38	0/3/3/3
52	GDP	FD	502	-	-	0/16/32/32	0/3/3/3
50	GTP	IK	501	-	-	7/22/38/38	0/3/3/3
50	GTP	UG	501	-	-	9/22/38/38	0/3/3/3
52	GDP	RH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	UM	501	-	-	8/22/38/38	0/3/3/3
52	GDP	FF	502	-	-	1/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
52	GDP	RJ	502	-	-	0/16/32/32	0/3/3/3
50	GTP	JM	501	-	-	6/22/38/38	0/3/3/3
50	GTP	MO	501	-	-	7/22/38/38	0/3/3/3
52	GDP	SJ	502	-	-	1/16/32/32	0/3/3/3
52	GDP	DJ	502	-	-	1/16/32/32	0/3/3/3
50	GTP	VM	501	-	-	7/22/38/38	0/3/3/3
50	GTP	AE	501	-	-	9/22/38/38	0/3/3/3
50	GTP	AO	501	-	-	8/22/38/38	0/3/3/3
50	GTP	UC	501	-	-	8/22/38/38	0/3/3/3
52	GDP	JF	502	-	-	0/16/32/32	0/3/3/3
50	GTP	VG	501	-	-	8/22/38/38	0/3/3/3
50	GTP	GG	501	-	-	6/22/38/38	0/3/3/3
52	GDP	AD	502	-	-	1/16/32/32	0/3/3/3
52	GDP	TN	502	-	-	1/16/32/32	0/3/3/3
50	GTP	MA	501	-	-	7/22/38/38	0/3/3/3
52	GDP	AN	502	-	-	0/16/32/32	0/3/3/3
52	GDP	JP	502	-	-	0/16/32/32	0/3/3/3
50	GTP	FI	501	-	-	6/22/38/38	0/3/3/3
52	GDP	UH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	JC	501	-	-	7/22/38/38	0/3/3/3
52	GDP	BL	502	-	-	2/16/32/32	0/3/3/3
52	GDP	NL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	CJ	502	-	-	1/16/32/32	0/3/3/3
50	GTP	HI	501	-	-	9/22/38/38	0/3/3/3
52	GDP	HL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	CL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	AL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	ML	502	-	-	3/16/32/32	0/3/3/3
50	GTP	HM	501	-	-	7/22/38/38	0/3/3/3
50	GTP	TC	501	-	-	8/22/38/38	0/3/3/3
50	GTP	CE	501	-	-	6/22/38/38	0/3/3/3
50	GTP	LA	501	-	-	6/22/38/38	0/3/3/3
50	GTP	UO	501	-	-	8/22/38/38	0/3/3/3
52	GDP	ON	502	-	-	3/16/32/32	0/3/3/3
52	GDP	EL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	JJ	502	-	-	2/16/32/32	0/3/3/3
50	GTP	JE	501	-	-	6/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
52	GDP	VB	502	-	-	4/16/32/32	0/3/3/3
50	GTP	HG	501	-	-	9/22/38/38	0/3/3/3
52	GDP	NB	502	-	-	1/16/32/32	0/3/3/3
50	GTP	LE	501	-	-	5/22/38/38	0/3/3/3
52	GDP	JD	502	-	-	1/16/32/32	0/3/3/3
52	GDP	LL	502	-	-	2/16/32/32	0/3/3/3
52	GDP	JN	502	-	-	1/16/32/32	0/3/3/3
50	GTP	NO	501	-	-	9/22/38/38	0/3/3/3
52	GDP	GN	502	-	-	1/16/32/32	0/3/3/3
52	GDP	IJ	502	-	-	0/16/32/32	0/3/3/3
50	GTP	WM	501	-	-	6/22/38/38	0/3/3/3
50	GTP	RE	501	-	-	8/22/38/38	0/3/3/3
52	GDP	WP	502	-	-	1/16/32/32	0/3/3/3
50	GTP	DI	501	-	-	8/22/38/38	0/3/3/3
52	GDP	CB	502	-	-	1/16/32/32	0/3/3/3
50	GTP	KM	501	-	-	5/22/38/38	0/3/3/3
52	GDP	VF	502	-	-	1/16/32/32	0/3/3/3
52	GDP	HJ	502	-	-	0/16/32/32	0/3/3/3
52	GDP	CP	502	-	-	1/16/32/32	0/3/3/3
52	GDP	RP	502	-	-	0/16/32/32	0/3/3/3
50	GTP	SI	501	-	-	9/22/38/38	0/3/3/3
50	GTP	OO	501	-	-	9/22/38/38	0/3/3/3
50	GTP	QK	501	-	-	8/22/38/38	0/3/3/3
50	GTP	GK	501	-	-	7/22/38/38	0/3/3/3
50	GTP	WE	501	-	-	7/22/38/38	0/3/3/3
52	GDP	QB	502	-	-	1/16/32/32	0/3/3/3
50	GTP	LG	501	-	-	7/22/38/38	0/3/3/3
52	GDP	UB	502	-	-	1/16/32/32	0/3/3/3
52	GDP	VH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	KC	501	-	-	5/22/38/38	0/3/3/3
50	GTP	FG	501	-	-	6/22/38/38	0/3/3/3
50	GTP	EK	501	-	-	6/22/38/38	0/3/3/3
52	GDP	MB	502	-	-	1/16/32/32	0/3/3/3
50	GTP	AI	501	-	-	9/22/38/38	0/3/3/3
50	GTP	UA	501	-	-	8/22/38/38	0/3/3/3
52	GDP	PJ	502	-	-	1/16/32/32	0/3/3/3
50	GTP	PC	501	-	-	8/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
52	GDP	KB	502	-	-	2/16/32/32	0/3/3/3
50	GTP	TM	501	-	-	9/22/38/38	0/3/3/3
50	GTP	SE	501	-	-	8/22/38/38	0/3/3/3
50	GTP	PG	501	-	-	8/22/38/38	0/3/3/3
52	GDP	GD	502	-	-	2/16/32/32	0/3/3/3
50	GTP	DC	501	-	-	7/22/38/38	0/3/3/3
50	GTP	TI	501	-	-	8/22/38/38	0/3/3/3
52	GDP	OH	502	-	-	2/16/32/32	0/3/3/3
52	GDP	WF	502	-	-	1/16/32/32	0/3/3/3
52	GDP	PD	502	-	-	1/16/32/32	0/3/3/3
50	GTP	KA	501	-	-	6/22/38/38	0/3/3/3
50	GTP	BO	501	-	-	8/22/38/38	0/3/3/3
50	GTP	RM	501	-	-	7/22/38/38	0/3/3/3
50	GTP	LK	501	-	-	7/22/38/38	0/3/3/3
50	GTP	SM	501	-	-	8/22/38/38	0/3/3/3
50	GTP	KE	501	-	-	7/22/38/38	0/3/3/3
50	GTP	KG	501	-	-	5/22/38/38	0/3/3/3
52	GDP	JB	502	-	-	1/16/32/32	0/3/3/3
52	GDP	TL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	WJ	502	-	-	1/16/32/32	0/3/3/3
50	GTP	II	501	-	-	7/22/38/38	0/3/3/3
50	GTP	EM	501	-	-	7/22/38/38	0/3/3/3
50	GTP	HK	501	-	-	8/22/38/38	0/3/3/3
50	GTP	OM	501	-	-	8/22/38/38	0/3/3/3
50	GTP	LO	501	-	-	6/22/38/38	0/3/3/3
52	GDP	LJ	502	-	-	1/16/32/32	0/3/3/3
50	GTP	WK	501	-	-	7/22/38/38	0/3/3/3
50	GTP	BI	501	-	-	8/22/38/38	0/3/3/3
52	GDP	OJ	502	-	-	4/16/32/32	0/3/3/3
50	GTP	WC	501	-	-	7/22/38/38	0/3/3/3
52	GDP	HF	502	-	-	0/16/32/32	0/3/3/3
52	GDP	NF	502	-	-	1/16/32/32	0/3/3/3
52	GDP	BN	502	-	-	0/16/32/32	0/3/3/3
52	GDP	PF	502	-	-	1/16/32/32	0/3/3/3
52	GDP	MJ	502	-	-	1/16/32/32	0/3/3/3
50	GTP	RG	501	-	-	8/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
50	GTP	TK	501	-	-	8/22/38/38	0/3/3/3
50	GTP	CM	501	-	-	6/22/38/38	0/3/3/3
50	GTP	CK	501	-	-	6/22/38/38	0/3/3/3
52	GDP	EH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	QC	501	-	-	8/22/38/38	0/3/3/3
52	GDP	EN	502	-	-	1/16/32/32	0/3/3/3
52	GDP	DL	502	-	-	2/16/32/32	0/3/3/3
52	GDP	SH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	OA	501	-	-	8/22/38/38	0/3/3/3
50	GTP	RO	501	-	-	8/22/38/38	0/3/3/3
52	GDP	UL	502	-	-	1/16/32/32	0/3/3/3
50	GTP	WA	501	-	-	8/22/38/38	0/3/3/3
50	GTP	JK	501	-	-	4/22/38/38	0/3/3/3
50	GTP	AA	501	-	-	8/22/38/38	0/3/3/3
50	GTP	HC	501	-	-	9/22/38/38	0/3/3/3
50	GTP	TE	501	-	-	8/22/38/38	0/3/3/3
52	GDP	OD	502	-	-	3/16/32/32	0/3/3/3
52	GDP	QF	502	-	-	1/16/32/32	0/3/3/3
52	GDP	KN	502	-	-	1/16/32/32	0/3/3/3
52	GDP	PL	502	-	-	0/16/32/32	0/3/3/3
50	GTP	JI	501	-	-	8/22/38/38	0/3/3/3
52	GDP	PH	502	-	-	1/16/32/32	0/3/3/3
50	GTP	IG	501	-	-	9/22/38/38	0/3/3/3
50	GTP	DQ	501	-	-	8/22/38/38	0/3/3/3
52	GDP	GJ	502	-	-	3/16/32/32	0/3/3/3
52	GDP	SB	502	-	-	1/16/32/32	0/3/3/3
50	GTP	CI	501	-	-	6/22/38/38	0/3/3/3
50	GTP	GA	501	-	-	8/22/38/38	0/3/3/3
50	GTP	HE	501	-	-	7/22/38/38	0/3/3/3
52	GDP	KJ	502	-	-	1/16/32/32	0/3/3/3
52	GDP	TF	502	-	-	1/16/32/32	0/3/3/3
50	GTP	VI	501	-	-	8/22/38/38	0/3/3/3
52	GDP	LP	502	-	-	1/16/32/32	0/3/3/3
50	GTP	RC	501	-	-	8/22/38/38	0/3/3/3
50	GTP	OE	501	-	-	9/22/38/38	0/3/3/3
52	GDP	MD	502	-	-	4/16/32/32	0/3/3/3
52	GDP	WN	502	-	-	0/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
50	GTP	MK	501	-	-	6/22/38/38	0/3/3/3
50	GTP	NM	501	-	-	8/22/38/38	0/3/3/3
52	GDP	VL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	QL	502	-	-	0/16/32/32	0/3/3/3
52	GDP	HD	502	-	-	1/16/32/32	0/3/3/3
52	GDP	FN	502	-	-	1/16/32/32	0/3/3/3
50	GTP	IM	501	-	-	7/22/38/38	0/3/3/3
52	GDP	ND	502	-	-	1/16/32/32	0/3/3/3
52	GDP	OB	502	-	-	4/16/32/32	0/3/3/3
52	GDP	CH	502	-	-	0/16/32/32	0/3/3/3
50	GTP	OG	501	-	-	8/22/38/38	0/3/3/3
52	GDP	SD	502	-	-	1/16/32/32	0/3/3/3
52	GDP	AB	502	-	-	0/16/32/32	0/3/3/3
52	GDP	FH	502	-	-	1/16/32/32	0/3/3/3
52	GDP	EJ	502	-	-	1/16/32/32	0/3/3/3
50	GTP	AK	501	-	-	6/22/38/38	0/3/3/3
50	GTP	BC	501	-	-	8/22/38/38	0/3/3/3
52	GDP	SN	502	-	-	1/16/32/32	0/3/3/3
52	GDP	WL	502	-	-	1/16/32/32	0/3/3/3
52	GDP	CD	502	-	-	1/16/32/32	0/3/3/3
50	GTP	VO	501	-	-	8/22/38/38	0/3/3/3
52	GDP	RF	502	-	-	1/16/32/32	0/3/3/3
52	GDP	WB	502	-	-	0/16/32/32	0/3/3/3
52	GDP	TB	502	-	-	1/16/32/32	0/3/3/3
50	GTP	GO	501	-	-	7/22/38/38	0/3/3/3
50	GTP	JG	501	-	-	6/22/38/38	0/3/3/3
52	GDP	MH	502	-	-	4/16/32/32	0/3/3/3
50	GTP	VE	501	-	-	7/22/38/38	0/3/3/3
52	GDP	SL	502	-	-	1/16/32/32	0/3/3/3
50	GTP	QE	501	-	-	7/22/38/38	0/3/3/3
50	GTP	IA	501	-	-	8/22/38/38	0/3/3/3
50	GTP	NA	501	-	-	8/22/38/38	0/3/3/3
50	GTP	VK	501	-	-	7/22/38/38	0/3/3/3
52	GDP	IF	502	-	-	1/16/32/32	0/3/3/3
52	GDP	HN	502	-	-	0/16/32/32	0/3/3/3

All (712) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	OB	502	GDP	C5-C4	3.31	1.47	1.38
52	ON	502	GDP	C5-C4	3.29	1.47	1.38
52	UF	502	GDP	C5-C4	3.18	1.47	1.38
52	GD	502	GDP	C5-C4	3.17	1.47	1.38
52	NB	502	GDP	C5-C4	3.15	1.47	1.38
52	RP	502	GDP	C5-C4	3.15	1.47	1.38
52	PB	502	GDP	C5-C4	3.14	1.47	1.38
52	QB	502	GDP	C5-C4	3.14	1.47	1.38
52	WD	502	GDP	C5-C4	3.14	1.47	1.38
52	PP	502	GDP	C5-C4	3.13	1.47	1.38
52	PL	502	GDP	C5-C4	3.13	1.47	1.38
52	UN	502	GDP	C5-C4	3.13	1.47	1.38
52	FJ	502	GDP	C5-C4	3.13	1.47	1.38
52	WL	502	GDP	C5-C4	3.13	1.47	1.38
52	UL	502	GDP	C5-C4	3.13	1.47	1.38
52	SN	502	GDP	C5-C4	3.13	1.47	1.38
52	IB	502	GDP	C5-C4	3.12	1.47	1.38
52	PF	502	GDP	C5-C4	3.12	1.47	1.38
52	FB	502	GDP	C5-C4	3.12	1.47	1.38
52	UD	502	GDP	C5-C4	3.12	1.47	1.38
52	JB	502	GDP	C5-C4	3.12	1.47	1.38
52	ND	502	GDP	C5-C4	3.12	1.47	1.38
52	VL	502	GDP	C5-C4	3.12	1.47	1.38
52	WP	502	GDP	C5-C4	3.11	1.47	1.38
52	TN	502	GDP	C5-C4	3.11	1.47	1.38
52	WB	502	GDP	C5-C4	3.11	1.47	1.38
52	UB	502	GDP	C5-C4	3.11	1.47	1.38
52	UH	502	GDP	C5-C4	3.11	1.47	1.38
52	OP	502	GDP	C5-C4	3.11	1.47	1.38
52	PD	502	GDP	C5-C4	3.11	1.47	1.38
52	NP	502	GDP	C5-C4	3.11	1.47	1.38
52	QP	502	GDP	C5-C4	3.11	1.47	1.38
52	DL	502	GDP	C5-C4	3.11	1.47	1.38
52	NN	502	GDP	C5-C4	3.11	1.47	1.38
52	DB	502	GDP	C5-C4	3.11	1.47	1.38
52	CB	502	GDP	C5-C4	3.11	1.47	1.38
52	VD	502	GDP	C5-C4	3.11	1.47	1.38
52	VN	502	GDP	C5-C4	3.11	1.47	1.38
52	UJ	502	GDP	C5-C4	3.10	1.47	1.38
52	PH	502	GDP	C5-C4	3.10	1.47	1.38
52	VF	502	GDP	C5-C4	3.10	1.47	1.38
52	BB	502	GDP	C5-C4	3.10	1.47	1.38
52	TL	502	GDP	C5-C4	3.10	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	QN	502	GDP	C5-C4	3.10	1.47	1.38
52	WJ	502	GDP	C5-C4	3.10	1.47	1.38
52	VJ	502	GDP	C5-C4	3.10	1.47	1.38
52	DH	502	GDP	C5-C4	3.10	1.47	1.38
52	DN	502	GDP	C5-C4	3.10	1.47	1.38
52	PJ	502	GDP	C5-C4	3.10	1.47	1.38
52	QD	502	GDP	C5-C4	3.10	1.47	1.38
52	VB	502	GDP	C5-C4	3.10	1.47	1.38
52	WH	502	GDP	C5-C4	3.10	1.47	1.38
52	OF	502	GDP	C5-C4	3.09	1.47	1.38
52	SH	502	GDP	C5-C4	3.09	1.47	1.38
52	TB	502	GDP	C5-C4	3.09	1.47	1.38
52	BP	502	GDP	C5-C4	3.09	1.47	1.38
52	WF	502	GDP	C5-C4	3.09	1.47	1.38
52	QH	502	GDP	C5-C4	3.09	1.47	1.38
52	SF	502	GDP	C5-C4	3.09	1.47	1.38
52	QF	502	GDP	C5-C4	3.09	1.47	1.38
52	RJ	502	GDP	C5-C4	3.09	1.47	1.38
52	SB	502	GDP	C5-C4	3.09	1.47	1.38
52	OH	502	GDP	C5-C4	3.08	1.47	1.38
52	RL	502	GDP	C5-C4	3.08	1.47	1.38
52	DP	502	GDP	C5-C4	3.08	1.47	1.38
52	JD	502	GDP	C5-C4	3.08	1.47	1.38
52	WN	502	GDP	C5-C4	3.08	1.47	1.38
52	TF	502	GDP	C5-C4	3.08	1.47	1.38
52	NJ	502	GDP	C5-C4	3.08	1.47	1.38
52	JL	502	GDP	C5-C4	3.07	1.47	1.38
52	TJ	502	GDP	C5-C4	3.07	1.47	1.38
52	HB	502	GDP	C5-C4	3.07	1.47	1.38
52	FN	502	GDP	C5-C4	3.07	1.47	1.38
52	CP	502	GDP	C5-C4	3.07	1.47	1.38
52	TD	502	GDP	C5-C4	3.07	1.47	1.38
52	GF	502	GDP	C5-C4	3.07	1.47	1.38
52	QJ	502	GDP	C5-C4	3.07	1.47	1.38
52	RN	502	GDP	C5-C4	3.06	1.47	1.38
52	FD	502	GDP	C5-C4	3.06	1.47	1.38
52	KP	502	GDP	C5-C4	3.06	1.47	1.38
52	RF	502	GDP	C5-C4	3.06	1.47	1.38
52	ID	502	GDP	C5-C4	3.06	1.47	1.38
52	TH	502	GDP	C5-C4	3.06	1.47	1.38
52	DJ	502	GDP	C5-C4	3.06	1.47	1.38
52	SD	502	GDP	C5-C4	3.06	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	CN	502	GDP	C5-C4	3.06	1.47	1.38
52	VH	502	GDP	C5-C4	3.06	1.47	1.38
52	BD	502	GDP	C5-C4	3.06	1.47	1.38
52	DF	502	GDP	C5-C4	3.06	1.47	1.38
52	ED	502	GDP	C5-C4	3.06	1.47	1.38
52	QL	502	GDP	C5-C4	3.05	1.47	1.38
52	EL	502	GDP	C5-C4	3.05	1.47	1.38
52	BJ	502	GDP	C5-C4	3.05	1.47	1.38
52	NL	502	GDP	C5-C4	3.05	1.47	1.38
52	RD	502	GDP	C5-C4	3.05	1.47	1.38
52	IH	502	GDP	C5-C4	3.05	1.47	1.38
52	AB	502	GDP	C5-C4	3.05	1.47	1.38
52	AN	502	GDP	C5-C4	3.05	1.47	1.38
52	HP	502	GDP	C5-C4	3.05	1.47	1.38
52	AP	502	GDP	C5-C4	3.05	1.47	1.38
52	OD	502	GDP	C5-C4	3.04	1.47	1.38
52	FL	502	GDP	C5-C4	3.04	1.47	1.38
52	GL	502	GDP	C5-C4	3.04	1.47	1.38
52	BH	502	GDP	C5-C4	3.04	1.47	1.38
52	PN	502	GDP	C5-C4	3.04	1.47	1.38
52	MN	502	GDP	C5-C4	3.04	1.47	1.38
52	EN	502	GDP	C5-C4	3.04	1.47	1.38
52	AL	502	GDP	C5-C4	3.04	1.47	1.38
52	SJ	502	GDP	C5-C4	3.04	1.47	1.38
52	RH	502	GDP	C5-C4	3.04	1.47	1.38
52	FH	502	GDP	C5-C4	3.04	1.47	1.38
52	HJ	502	GDP	C5-C4	3.03	1.47	1.38
52	LN	502	GDP	C5-C4	3.03	1.47	1.38
52	JP	502	GDP	C5-C4	3.03	1.47	1.38
52	EH	502	GDP	C5-C4	3.03	1.47	1.38
52	HD	502	GDP	C5-C4	3.03	1.47	1.38
52	SL	502	GDP	C5-C4	3.03	1.47	1.38
52	IF	502	GDP	C5-C4	3.03	1.47	1.38
52	DD	502	GDP	C5-C4	3.03	1.47	1.38
52	CF	502	GDP	C5-C4	3.02	1.47	1.38
52	EJ	502	GDP	C5-C4	3.02	1.47	1.38
52	GH	502	GDP	C5-C4	3.02	1.47	1.38
52	BN	502	GDP	C5-C4	3.02	1.47	1.38
52	LP	502	GDP	C5-C4	3.02	1.47	1.38
52	EF	502	GDP	C5-C4	3.02	1.47	1.38
52	MB	502	GDP	C5-C4	3.02	1.47	1.38
52	OL	502	GDP	C5-C4	3.02	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	IP	502	GDP	C5-C4	3.01	1.47	1.38
52	BL	502	GDP	C5-C4	3.01	1.47	1.38
52	EB	502	GDP	C5-C4	3.01	1.47	1.38
52	KN	502	GDP	C5-C4	3.01	1.47	1.38
52	KD	502	GDP	C5-C4	3.01	1.47	1.38
52	JH	502	GDP	C5-C4	3.01	1.47	1.38
52	BF	502	GDP	C5-C4	3.01	1.47	1.38
52	IJ	502	GDP	C5-C4	3.01	1.47	1.38
52	JN	502	GDP	C5-C4	3.01	1.47	1.38
52	NH	502	GDP	C5-C4	3.01	1.47	1.38
52	KL	502	GDP	C5-C4	3.00	1.47	1.38
52	MF	502	GDP	C5-C4	3.00	1.47	1.38
52	MP	502	GDP	C5-C4	3.00	1.47	1.38
52	CJ	502	GDP	C5-C4	3.00	1.47	1.38
52	GN	502	GDP	C5-C4	3.00	1.47	1.38
52	HL	502	GDP	C5-C4	2.99	1.47	1.38
52	IN	502	GDP	C5-C4	2.99	1.47	1.38
52	KF	502	GDP	C5-C4	2.99	1.46	1.38
52	KH	502	GDP	C5-C4	2.99	1.46	1.38
52	CD	502	GDP	C5-C4	2.99	1.46	1.38
52	HN	502	GDP	C5-C4	2.98	1.46	1.38
52	NF	502	GDP	C5-C4	2.98	1.46	1.38
52	ML	502	GDP	C5-C4	2.98	1.46	1.38
52	CL	502	GDP	C5-C4	2.98	1.46	1.38
52	GJ	502	GDP	C5-C4	2.98	1.46	1.38
52	AJ	502	GDP	C5-C4	2.97	1.46	1.38
52	MJ	502	GDP	C5-C4	2.97	1.46	1.38
52	FF	502	GDP	C5-C4	2.97	1.46	1.38
52	LF	502	GDP	C5-C4	2.96	1.46	1.38
52	MH	502	GDP	C5-C4	2.95	1.46	1.38
52	LJ	502	GDP	C5-C4	2.95	1.46	1.38
52	AD	502	GDP	C5-C4	2.95	1.46	1.38
52	MD	502	GDP	C5-C4	2.95	1.46	1.38
52	HF	502	GDP	C5-C4	2.94	1.46	1.38
52	AF	502	GDP	C5-C4	2.94	1.46	1.38
52	HH	502	GDP	C5-C4	2.93	1.46	1.38
52	JJ	502	GDP	C5-C4	2.93	1.46	1.38
52	GB	502	GDP	C5-C4	2.93	1.46	1.38
52	IL	502	GDP	C5-C4	2.93	1.46	1.38
52	LD	502	GDP	C5-C4	2.93	1.46	1.38
52	KB	502	GDP	C5-C4	2.93	1.46	1.38
52	KJ	502	GDP	C5-C4	2.92	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	CH	502	GDP	C5-C4	2.91	1.46	1.38
52	OJ	502	GDP	C5-C4	2.91	1.46	1.38
52	GD	502	GDP	C6-N1	-2.91	1.33	1.38
52	LB	502	GDP	C5-C4	2.90	1.46	1.38
52	AH	502	GDP	C5-C4	2.89	1.46	1.38
52	LL	502	GDP	C5-C4	2.89	1.46	1.38
52	JH	502	GDP	C6-N1	-2.81	1.33	1.38
52	JF	502	GDP	C5-C4	2.80	1.46	1.38
52	LH	502	GDP	C5-C4	2.76	1.46	1.38
52	KH	502	GDP	C6-N1	-2.69	1.33	1.38
52	AD	502	GDP	C6-N1	-2.66	1.33	1.38
52	KJ	502	GDP	C6-N1	-2.65	1.33	1.38
52	OB	502	GDP	C6-N1	-2.64	1.33	1.38
52	PN	502	GDP	C6-N1	-2.63	1.33	1.38
52	LB	502	GDP	C6-N1	-2.62	1.33	1.38
52	KL	502	GDP	C6-N1	-2.62	1.34	1.38
52	DL	502	GDP	C6-N1	-2.61	1.34	1.38
52	IL	502	GDP	C6-N1	-2.58	1.34	1.38
52	IJ	502	GDP	C6-N1	-2.58	1.34	1.38
52	IN	502	GDP	C6-N1	-2.57	1.34	1.38
52	DJ	502	GDP	C6-N1	-2.57	1.34	1.38
52	NL	502	GDP	C6-N1	-2.57	1.34	1.38
52	CN	502	GDP	C6-N1	-2.56	1.34	1.38
52	GL	502	GDP	C6-N1	-2.56	1.34	1.38
52	BF	502	GDP	C6-N1	-2.55	1.34	1.38
52	CL	502	GDP	C6-N1	-2.55	1.34	1.38
52	AJ	502	GDP	C6-N1	-2.55	1.34	1.38
52	KB	502	GDP	C6-N1	-2.55	1.34	1.38
52	LJ	502	GDP	C6-N1	-2.55	1.34	1.38
52	FL	502	GDP	C6-N1	-2.54	1.34	1.38
52	CH	502	GDP	C6-N1	-2.54	1.34	1.38
52	EJ	502	GDP	C6-N1	-2.54	1.34	1.38
52	MD	502	GDP	C6-N1	-2.54	1.34	1.38
52	HN	502	GDP	C6-N1	-2.53	1.34	1.38
52	LD	502	GDP	C6-N1	-2.53	1.34	1.38
52	DN	502	GDP	C6-N1	-2.53	1.34	1.38
52	NF	502	GDP	C6-N1	-2.53	1.34	1.38
52	LF	502	GDP	C6-N1	-2.53	1.34	1.38
52	CF	502	GDP	C6-N1	-2.53	1.34	1.38
52	JL	502	GDP	C6-N1	-2.53	1.34	1.38
52	ID	502	GDP	C6-N1	-2.53	1.34	1.38
50	VI	501	GTP	C2-N3	2.53	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	KD	502	GDP	C6-N1	-2.52	1.34	1.38
52	JN	502	GDP	C6-N1	-2.52	1.34	1.38
52	AH	502	GDP	C6-N1	-2.52	1.34	1.38
52	WJ	502	GDP	C6-N1	-2.52	1.34	1.38
52	CJ	502	GDP	C6-N1	-2.51	1.34	1.38
52	EL	502	GDP	C6-N1	-2.51	1.34	1.38
52	UB	502	GDP	C6-N1	-2.51	1.34	1.38
52	RH	502	GDP	C6-N1	-2.51	1.34	1.38
52	EH	502	GDP	C6-N1	-2.50	1.34	1.38
52	DH	502	GDP	C6-N1	-2.50	1.34	1.38
52	FD	502	GDP	C6-N1	-2.50	1.34	1.38
52	FF	502	GDP	C6-N1	-2.50	1.34	1.38
52	PP	502	GDP	C6-N1	-2.50	1.34	1.38
52	IH	502	GDP	C6-N1	-2.50	1.34	1.38
52	CD	502	GDP	C6-N1	-2.50	1.34	1.38
52	GJ	502	GDP	C6-N1	-2.50	1.34	1.38
52	DF	502	GDP	C6-N1	-2.50	1.34	1.38
52	FH	502	GDP	C6-N1	-2.50	1.34	1.38
52	OH	502	GDP	C6-N1	-2.50	1.34	1.38
52	HH	502	GDP	C6-N1	-2.49	1.34	1.38
52	SL	502	GDP	C6-N1	-2.49	1.34	1.38
52	WD	502	GDP	C6-N1	-2.49	1.34	1.38
52	GH	502	GDP	C6-N1	-2.49	1.34	1.38
52	BD	502	GDP	C6-N1	-2.49	1.34	1.38
52	RL	502	GDP	C6-N1	-2.49	1.34	1.38
52	UF	502	GDP	C6-N1	-2.49	1.34	1.38
52	RF	502	GDP	C6-N1	-2.49	1.34	1.38
52	KF	502	GDP	C6-N1	-2.48	1.34	1.38
52	WF	502	GDP	C6-N1	-2.48	1.34	1.38
52	QD	502	GDP	C6-N1	-2.48	1.34	1.38
52	GF	502	GDP	C6-N1	-2.48	1.34	1.38
52	BN	502	GDP	C6-N1	-2.48	1.34	1.38
52	WN	502	GDP	C6-N1	-2.48	1.34	1.38
52	MH	502	GDP	C6-N1	-2.48	1.34	1.38
52	AF	502	GDP	C6-N1	-2.48	1.34	1.38
52	HF	502	GDP	C6-N1	-2.47	1.34	1.38
52	LL	502	GDP	C6-N1	-2.47	1.34	1.38
52	HL	502	GDP	C6-N1	-2.47	1.34	1.38
52	NJ	502	GDP	C6-N1	-2.47	1.34	1.38
52	VJ	502	GDP	C6-N1	-2.47	1.34	1.38
52	FN	502	GDP	C6-N1	-2.47	1.34	1.38
52	MJ	502	GDP	C6-N1	-2.47	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	IF	502	GDP	C6-N1	-2.47	1.34	1.38
52	ML	502	GDP	C6-N1	-2.47	1.34	1.38
52	VD	502	GDP	C6-N1	-2.47	1.34	1.38
52	MP	502	GDP	C6-N1	-2.47	1.34	1.38
52	RP	502	GDP	C6-N1	-2.47	1.34	1.38
52	ED	502	GDP	C6-N1	-2.47	1.34	1.38
52	MF	502	GDP	C6-N1	-2.47	1.34	1.38
52	PJ	502	GDP	C6-N1	-2.47	1.34	1.38
52	OJ	502	GDP	C6-N1	-2.47	1.34	1.38
52	SB	502	GDP	C6-N1	-2.47	1.34	1.38
52	TH	502	GDP	C6-N1	-2.47	1.34	1.38
52	VH	502	GDP	C6-N1	-2.47	1.34	1.38
52	AP	502	GDP	C6-N1	-2.46	1.34	1.38
52	KP	502	GDP	C6-N1	-2.46	1.34	1.38
52	QF	502	GDP	C6-N1	-2.46	1.34	1.38
52	AL	502	GDP	C6-N1	-2.46	1.34	1.38
52	DP	502	GDP	C6-N1	-2.46	1.34	1.38
52	MN	502	GDP	C6-N1	-2.46	1.34	1.38
52	PB	502	GDP	C6-N1	-2.46	1.34	1.38
52	GB	502	GDP	C6-N1	-2.46	1.34	1.38
52	UJ	502	GDP	C6-N1	-2.46	1.34	1.38
52	OL	502	GDP	C6-N1	-2.46	1.34	1.38
52	BL	502	GDP	C6-N1	-2.46	1.34	1.38
52	NB	502	GDP	C6-N1	-2.46	1.34	1.38
52	BP	502	GDP	C6-N1	-2.46	1.34	1.38
52	IB	502	GDP	C6-N1	-2.46	1.34	1.38
52	PH	502	GDP	C6-N1	-2.45	1.34	1.38
52	BB	502	GDP	C6-N1	-2.45	1.34	1.38
52	BJ	502	GDP	C6-N1	-2.45	1.34	1.38
52	LH	502	GDP	C6-N1	-2.45	1.34	1.38
52	NN	502	GDP	C6-N1	-2.45	1.34	1.38
52	EN	502	GDP	C6-N1	-2.45	1.34	1.38
52	BH	502	GDP	C6-N1	-2.45	1.34	1.38
52	TL	502	GDP	C6-N1	-2.45	1.34	1.38
52	AB	502	GDP	C6-N1	-2.45	1.34	1.38
52	PL	502	GDP	C6-N1	-2.45	1.34	1.38
52	TJ	502	GDP	C6-N1	-2.45	1.34	1.38
52	RJ	502	GDP	C6-N1	-2.45	1.34	1.38
52	UH	502	GDP	C6-N1	-2.45	1.34	1.38
52	DD	502	GDP	C6-N1	-2.45	1.34	1.38
52	ON	502	GDP	C6-N1	-2.45	1.34	1.38
52	PD	502	GDP	C6-N1	-2.45	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	GN	502	GDP	C6-N1	-2.44	1.34	1.38
52	PF	502	GDP	C6-N1	-2.44	1.34	1.38
52	LN	502	GDP	C6-N1	-2.44	1.34	1.38
52	TN	502	GDP	C6-N1	-2.44	1.34	1.38
52	EF	502	GDP	C6-N1	-2.44	1.34	1.38
52	JP	502	GDP	C6-N1	-2.44	1.34	1.38
52	JB	502	GDP	C6-N1	-2.44	1.34	1.38
52	WL	502	GDP	C6-N1	-2.44	1.34	1.38
52	JD	502	GDP	C6-N1	-2.44	1.34	1.38
52	WB	502	GDP	C6-N1	-2.44	1.34	1.38
52	CP	502	GDP	C6-N1	-2.43	1.34	1.38
52	TF	502	GDP	C6-N1	-2.43	1.34	1.38
52	HP	502	GDP	C6-N1	-2.43	1.34	1.38
52	NH	502	GDP	C6-N1	-2.43	1.34	1.38
52	CB	502	GDP	C6-N1	-2.43	1.34	1.38
52	OP	502	GDP	C6-N1	-2.43	1.34	1.38
52	OF	502	GDP	C6-N1	-2.43	1.34	1.38
52	QH	502	GDP	C6-N1	-2.43	1.34	1.38
52	QL	502	GDP	C6-N1	-2.43	1.34	1.38
52	RN	502	GDP	C6-N1	-2.42	1.34	1.38
50	QG	501	GTP	C2-N3	2.42	1.39	1.33
52	VL	502	GDP	C6-N1	-2.42	1.34	1.38
52	IP	502	GDP	C6-N1	-2.42	1.34	1.38
52	SJ	502	GDP	C6-N1	-2.42	1.34	1.38
52	UN	502	GDP	C6-N1	-2.42	1.34	1.38
52	ND	502	GDP	C6-N1	-2.42	1.34	1.38
52	UL	502	GDP	C6-N1	-2.42	1.34	1.38
52	JJ	502	GDP	C6-N1	-2.42	1.34	1.38
52	SH	502	GDP	C6-N1	-2.42	1.34	1.38
52	WH	502	GDP	C6-N1	-2.42	1.34	1.38
52	QN	502	GDP	C6-N1	-2.42	1.34	1.38
52	OD	502	GDP	C6-N1	-2.42	1.34	1.38
52	AN	502	GDP	C6-N1	-2.42	1.34	1.38
52	EB	502	GDP	C6-N1	-2.41	1.34	1.38
52	HD	502	GDP	C6-N1	-2.41	1.34	1.38
52	NP	502	GDP	C6-N1	-2.41	1.34	1.38
52	LP	502	GDP	C6-N1	-2.41	1.34	1.38
52	QJ	502	GDP	C6-N1	-2.41	1.34	1.38
52	DB	502	GDP	C6-N1	-2.41	1.34	1.38
52	UD	502	GDP	C6-N1	-2.41	1.34	1.38
52	TD	502	GDP	C6-N1	-2.40	1.34	1.38
52	VF	502	GDP	C6-N1	-2.40	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	KN	502	GDP	C6-N1	-2.40	1.34	1.38
52	SN	502	GDP	C6-N1	-2.39	1.34	1.38
52	SF	502	GDP	C6-N1	-2.39	1.34	1.38
52	FB	502	GDP	C6-N1	-2.39	1.34	1.38
52	RD	502	GDP	C6-N1	-2.39	1.34	1.38
52	WP	502	GDP	C6-N1	-2.39	1.34	1.38
52	VB	502	GDP	C6-N1	-2.38	1.34	1.38
52	HB	502	GDP	C6-N1	-2.38	1.34	1.38
52	HJ	502	GDP	C6-N1	-2.38	1.34	1.38
52	SD	502	GDP	C6-N1	-2.37	1.34	1.38
52	VN	502	GDP	C6-N1	-2.37	1.34	1.38
52	QB	502	GDP	C6-N1	-2.37	1.34	1.38
52	QP	502	GDP	C6-N1	-2.35	1.34	1.38
52	JF	502	GDP	C4-N9	-2.33	1.32	1.38
50	JO	501	GTP	C2-N3	2.31	1.38	1.33
50	IE	501	GTP	C2-N3	2.31	1.38	1.33
52	TB	502	GDP	C6-N1	-2.30	1.34	1.38
50	VK	501	GTP	C2-N3	2.30	1.38	1.33
50	UO	501	GTP	C2-N3	2.30	1.38	1.33
52	KJ	502	GDP	C5-N7	-2.28	1.34	1.39
50	CK	501	GTP	C2-N3	2.27	1.38	1.33
50	WE	501	GTP	C2-N3	2.27	1.38	1.33
50	RM	501	GTP	C2-N3	2.26	1.38	1.33
50	UM	501	GTP	C2-N3	2.26	1.38	1.33
50	HA	501	GTP	C2-N3	2.26	1.38	1.33
50	IK	501	GTP	C2-N3	2.26	1.38	1.33
50	UK	501	GTP	C2-N3	2.25	1.38	1.33
50	FO	501	GTP	C2-N3	2.25	1.38	1.33
50	VM	501	GTP	C2-N3	2.25	1.38	1.33
50	WO	501	GTP	C2-N3	2.25	1.38	1.33
50	RK	501	GTP	C2-N3	2.25	1.38	1.33
52	LH	502	GDP	C5-N7	-2.25	1.34	1.39
50	GC	501	GTP	C2-N3	2.24	1.38	1.33
50	QC	501	GTP	C2-N3	2.24	1.38	1.33
50	CQ	501	GTP	C2-N3	2.24	1.38	1.33
50	VG	501	GTP	C2-N3	2.24	1.38	1.33
52	LH	502	GDP	C4-N9	-2.24	1.32	1.38
50	VA	501	GTP	C2-N3	2.24	1.38	1.33
50	IO	501	GTP	C2-N3	2.24	1.38	1.33
50	RI	501	GTP	C2-N3	2.24	1.38	1.33
52	FJ	502	GDP	C5-N7	-2.24	1.34	1.39
50	RC	501	GTP	C2-N3	2.24	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
50	SC	501	GTP	C2-N3	2.23	1.38	1.33
50	IG	501	GTP	C2-N3	2.23	1.38	1.33
50	HK	501	GTP	C2-N3	2.23	1.38	1.33
50	TC	501	GTP	C2-N3	2.23	1.38	1.33
50	QE	501	GTP	C2-N3	2.23	1.38	1.33
50	VE	501	GTP	C2-N3	2.23	1.38	1.33
50	GM	501	GTP	C2-N3	2.23	1.38	1.33
52	JF	502	GDP	C6-N1	-2.23	1.34	1.38
50	PE	501	GTP	C2-N3	2.23	1.38	1.33
50	LA	501	GTP	C2-N3	2.23	1.38	1.33
50	CM	501	GTP	C2-N3	2.22	1.38	1.33
50	QI	501	GTP	C2-N3	2.22	1.38	1.33
52	LD	502	GDP	C5-N7	-2.22	1.34	1.39
52	FJ	502	GDP	C6-N1	-2.22	1.34	1.38
50	AO	501	GTP	C2-N3	2.22	1.38	1.33
52	MB	502	GDP	C6-N1	-2.22	1.34	1.38
50	RO	501	GTP	C2-N3	2.22	1.38	1.33
52	KB	502	GDP	C5-N7	-2.22	1.34	1.39
50	JK	501	GTP	C2-N3	2.21	1.38	1.33
50	SG	501	GTP	C2-N3	2.21	1.38	1.33
50	OA	501	GTP	C2-N3	2.21	1.38	1.33
50	SE	501	GTP	C2-N3	2.21	1.38	1.33
50	VO	501	GTP	C2-N3	2.21	1.38	1.33
52	LB	502	GDP	C5-N7	-2.21	1.34	1.39
52	NF	502	GDP	C5-N7	-2.21	1.34	1.39
50	UA	501	GTP	C2-N3	2.21	1.38	1.33
50	WI	501	GTP	C2-N3	2.21	1.38	1.33
50	IA	501	GTP	C2-N3	2.21	1.38	1.33
50	TA	501	GTP	C2-N3	2.21	1.38	1.33
52	IH	502	GDP	C5-N7	-2.21	1.34	1.39
50	RG	501	GTP	C2-N3	2.20	1.38	1.33
52	MH	502	GDP	C5-N7	-2.20	1.34	1.39
50	DK	501	GTP	C2-N3	2.20	1.38	1.33
50	BC	501	GTP	C2-N3	2.20	1.38	1.33
50	SK	501	GTP	C2-N3	2.20	1.38	1.33
52	AL	502	GDP	C5-N7	-2.20	1.34	1.39
50	DM	501	GTP	C2-N3	2.20	1.38	1.33
50	VC	501	GTP	C2-N3	2.20	1.38	1.33
50	IC	501	GTP	C2-N3	2.20	1.38	1.33
50	NE	501	GTP	C2-N3	2.20	1.38	1.33
52	IN	502	GDP	C5-N7	-2.20	1.34	1.39
50	UE	501	GTP	C2-N3	2.20	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
50	II	501	GTP	C2-N3	2.19	1.38	1.33
50	EE	501	GTP	C2-N3	2.19	1.38	1.33
50	WA	501	GTP	C2-N3	2.19	1.38	1.33
50	PI	501	GTP	C2-N3	2.19	1.38	1.33
50	OK	501	GTP	C2-N3	2.19	1.38	1.33
52	BJ	502	GDP	C5-N7	-2.19	1.34	1.39
50	GA	501	GTP	C2-N3	2.19	1.38	1.33
50	OE	501	GTP	C2-N3	2.19	1.38	1.33
50	EA	501	GTP	C2-N3	2.19	1.38	1.33
52	BF	502	GDP	C5-N7	-2.19	1.34	1.39
50	PO	501	GTP	C2-N3	2.19	1.38	1.33
50	CG	501	GTP	C2-N3	2.19	1.38	1.33
50	QM	501	GTP	C2-N3	2.19	1.38	1.33
50	DQ	501	GTP	C2-N3	2.19	1.38	1.33
50	CO	501	GTP	C2-N3	2.19	1.38	1.33
50	OG	501	GTP	C2-N3	2.18	1.38	1.33
50	WC	501	GTP	C2-N3	2.18	1.38	1.33
52	AD	502	GDP	C5-N7	-2.18	1.34	1.39
50	CE	501	GTP	C2-N3	2.18	1.38	1.33
52	LF	502	GDP	C5-N7	-2.18	1.34	1.39
50	DC	501	GTP	C2-N3	2.18	1.38	1.33
50	NO	501	GTP	C2-N3	2.18	1.38	1.33
52	LJ	502	GDP	C5-N7	-2.18	1.34	1.39
50	CC	501	GTP	C2-N3	2.18	1.38	1.33
50	EK	501	GTP	C2-N3	2.18	1.38	1.33
50	UI	501	GTP	C2-N3	2.18	1.38	1.33
52	BN	502	GDP	C5-N7	-2.18	1.34	1.39
50	LM	501	GTP	C2-N3	2.18	1.38	1.33
50	FG	501	GTP	C2-N3	2.18	1.38	1.33
50	NC	501	GTP	C2-N3	2.18	1.38	1.33
50	NI	501	GTP	C2-N3	2.18	1.38	1.33
50	HC	501	GTP	C2-N3	2.18	1.38	1.33
50	OM	501	GTP	C2-N3	2.17	1.38	1.33
50	DI	501	GTP	C2-N3	2.17	1.38	1.33
50	AA	501	GTP	C2-N3	2.17	1.38	1.33
50	CI	501	GTP	C2-N3	2.17	1.38	1.33
50	JC	501	GTP	C2-N3	2.17	1.38	1.33
50	FA	501	GTP	C2-N3	2.17	1.38	1.33
50	JE	501	GTP	C2-N3	2.17	1.38	1.33
50	GO	501	GTP	C2-N3	2.17	1.38	1.33
50	BO	501	GTP	C2-N3	2.17	1.38	1.33
50	UC	501	GTP	C2-N3	2.17	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
50	PK	501	GTP	C2-N3	2.17	1.38	1.33
50	QK	501	GTP	C2-N3	2.17	1.38	1.33
50	LG	501	GTP	C2-N3	2.17	1.38	1.33
50	RE	501	GTP	C2-N3	2.17	1.38	1.33
50	SA	501	GTP	C2-N3	2.17	1.38	1.33
50	IM	501	GTP	C2-N3	2.17	1.38	1.33
50	TK	501	GTP	C2-N3	2.17	1.38	1.33
50	FC	501	GTP	C2-N3	2.17	1.38	1.33
50	WM	501	GTP	C2-N3	2.17	1.38	1.33
50	LE	501	GTP	C2-N3	2.17	1.38	1.33
50	HE	501	GTP	C2-N3	2.16	1.38	1.33
52	HN	502	GDP	C5-N7	-2.16	1.34	1.39
50	HO	501	GTP	C2-N3	2.16	1.38	1.33
50	GI	501	GTP	C2-N3	2.16	1.38	1.33
52	CJ	502	GDP	C5-N7	-2.16	1.34	1.39
50	MA	501	GTP	C2-N3	2.16	1.38	1.33
50	UG	501	GTP	C2-N3	2.16	1.38	1.33
50	NA	501	GTP	C2-N3	2.16	1.38	1.33
50	BE	501	GTP	C2-N3	2.16	1.38	1.33
50	EI	501	GTP	C2-N3	2.16	1.38	1.33
50	EO	501	GTP	C2-N3	2.16	1.38	1.33
50	TE	501	GTP	C2-N3	2.16	1.38	1.33
50	KK	501	GTP	C2-N3	2.16	1.38	1.33
52	AF	502	GDP	C5-N7	-2.16	1.34	1.39
50	OC	501	GTP	C2-N3	2.16	1.38	1.33
50	AC	501	GTP	C2-N3	2.16	1.38	1.33
50	EC	501	GTP	C2-N3	2.15	1.38	1.33
52	HH	502	GDP	C5-N7	-2.15	1.34	1.39
50	EG	501	GTP	C2-N3	2.15	1.38	1.33
50	NG	501	GTP	C2-N3	2.15	1.38	1.33
50	TI	501	GTP	C2-N3	2.15	1.38	1.33
50	ME	501	GTP	C2-N3	2.15	1.38	1.33
52	IJ	502	GDP	C5-N7	-2.15	1.34	1.39
50	HM	501	GTP	C2-N3	2.15	1.38	1.33
52	AJ	502	GDP	C5-N7	-2.15	1.34	1.39
52	AN	502	GDP	C5-N7	-2.15	1.34	1.39
50	BM	501	GTP	C2-N3	2.15	1.38	1.33
50	BK	501	GTP	C2-N3	2.15	1.38	1.33
52	IP	502	GDP	C5-N7	-2.14	1.34	1.39
50	DG	501	GTP	C2-N3	2.14	1.38	1.33
50	EM	501	GTP	C2-N3	2.14	1.38	1.33
50	DE	501	GTP	C2-N3	2.14	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
50	DO	501	GTP	C2-N3	2.14	1.38	1.33
52	BL	502	GDP	C5-N7	-2.14	1.34	1.39
52	GD	502	GDP	C5-N7	-2.14	1.34	1.39
52	LL	502	GDP	C5-N7	-2.14	1.34	1.39
50	MO	501	GTP	C2-N3	2.14	1.38	1.33
52	QP	502	GDP	C5-N7	-2.14	1.34	1.39
50	LC	501	GTP	C2-N3	2.14	1.38	1.33
50	AE	501	GTP	C2-N3	2.14	1.38	1.33
50	JM	501	GTP	C2-N3	2.14	1.38	1.33
52	FB	502	GDP	C5-N7	-2.14	1.34	1.39
50	FM	501	GTP	C2-N3	2.14	1.38	1.33
52	BH	502	GDP	C5-N7	-2.14	1.34	1.39
50	TG	501	GTP	C2-N3	2.13	1.38	1.33
52	CF	502	GDP	C5-N7	-2.13	1.34	1.39
50	OO	501	GTP	C2-N3	2.13	1.38	1.33
52	EJ	502	GDP	C5-N7	-2.13	1.34	1.39
50	SI	501	GTP	C2-N3	2.13	1.38	1.33
50	GG	501	GTP	C2-N3	2.13	1.38	1.33
50	SM	501	GTP	C2-N3	2.13	1.38	1.33
50	WG	501	GTP	C2-N3	2.13	1.38	1.33
52	KH	502	GDP	C5-N7	-2.13	1.34	1.39
50	RK	501	GTP	PB-O3A	2.13	1.61	1.59
52	FN	502	GDP	C5-N7	-2.12	1.34	1.39
52	GN	502	GDP	C5-N7	-2.12	1.34	1.39
50	HI	501	GTP	C2-N3	2.12	1.38	1.33
50	BI	501	GTP	C2-N3	2.12	1.38	1.33
52	HD	502	GDP	C5-N7	-2.12	1.34	1.39
52	EH	502	GDP	C5-N7	-2.12	1.34	1.39
52	ID	502	GDP	C5-N7	-2.12	1.34	1.39
52	MD	502	GDP	C5-N7	-2.12	1.34	1.39
52	OJ	502	GDP	C5-N7	-2.12	1.34	1.39
52	CH	502	GDP	C5-N7	-2.12	1.34	1.39
52	NH	502	GDP	C5-N7	-2.12	1.34	1.39
52	VH	502	GDP	C5-N7	-2.12	1.34	1.39
50	WK	501	GTP	C2-N3	2.11	1.38	1.33
50	OI	501	GTP	C2-N3	2.11	1.38	1.33
52	FD	502	GDP	C5-N7	-2.11	1.34	1.39
52	ML	502	GDP	C5-N7	-2.11	1.34	1.39
52	RH	502	GDP	C5-N7	-2.11	1.34	1.39
50	JG	501	GTP	C2-N3	2.11	1.38	1.33
52	HF	502	GDP	C5-N7	-2.11	1.34	1.39
52	KF	502	GDP	C5-N7	-2.11	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	AH	502	GDP	C5-N7	-2.11	1.34	1.39
50	TM	501	GTP	C2-N3	2.11	1.38	1.33
52	HP	502	GDP	C5-N7	-2.11	1.34	1.39
50	RG	501	GTP	PB-O3A	2.11	1.61	1.59
52	AB	502	GDP	C5-N7	-2.11	1.34	1.39
50	KM	501	GTP	C2-N3	2.11	1.38	1.33
52	IB	502	GDP	C5-N7	-2.11	1.34	1.39
52	DL	502	GDP	C5-N7	-2.11	1.34	1.39
50	JQ	501	GTP	C2-N3	2.11	1.38	1.33
50	MK	501	GTP	C2-N3	2.11	1.38	1.33
52	ED	502	GDP	C5-N7	-2.10	1.34	1.39
52	EL	502	GDP	C5-N7	-2.10	1.34	1.39
50	KO	501	GTP	C2-N3	2.10	1.38	1.33
52	GL	502	GDP	C5-N7	-2.10	1.34	1.39
50	VI	501	GTP	PA-O3A	2.10	1.61	1.59
50	PC	501	GTP	C2-N3	2.10	1.38	1.33
52	FL	502	GDP	C5-N7	-2.10	1.34	1.39
52	RD	502	GDP	C5-N7	-2.10	1.34	1.39
50	FE	501	GTP	C2-N3	2.10	1.38	1.33
52	MJ	502	GDP	C5-N7	-2.10	1.34	1.39
52	NN	502	GDP	C5-N7	-2.10	1.34	1.39
52	GJ	502	GDP	C5-N7	-2.09	1.34	1.39
52	SH	502	GDP	C5-N7	-2.09	1.34	1.39
52	VJ	502	GDP	C5-N7	-2.09	1.34	1.39
52	DD	502	GDP	C5-N7	-2.09	1.34	1.39
50	AK	501	GTP	C2-N3	2.09	1.38	1.33
52	QN	502	GDP	C5-N7	-2.09	1.34	1.39
52	RL	502	GDP	C5-N7	-2.09	1.34	1.39
52	BD	502	GDP	C5-N7	-2.09	1.34	1.39
52	BB	502	GDP	C5-N7	-2.09	1.34	1.39
50	FK	501	GTP	C2-N3	2.09	1.38	1.33
50	GE	501	GTP	C2-N3	2.09	1.38	1.33
50	LO	501	GTP	C2-N3	2.09	1.38	1.33
52	MB	502	GDP	C4-N9	-2.09	1.32	1.38
52	JN	502	GDP	C5-N7	-2.09	1.34	1.39
52	LP	502	GDP	C5-N7	-2.09	1.34	1.39
52	SL	502	GDP	C5-N7	-2.09	1.34	1.39
52	FH	502	GDP	C5-N7	-2.09	1.34	1.39
52	MF	502	GDP	C5-N7	-2.09	1.34	1.39
52	OF	502	GDP	C5-N7	-2.09	1.34	1.39
52	QD	502	GDP	C5-N7	-2.09	1.34	1.39
52	SB	502	GDP	C5-N7	-2.09	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	IL	502	GDP	C5-N7	-2.09	1.34	1.39
52	UH	502	GDP	C5-N7	-2.09	1.34	1.39
50	NK	501	GTP	C2-N3	2.09	1.38	1.33
52	SF	502	GDP	C5-N7	-2.09	1.34	1.39
50	FI	501	GTP	C2-N3	2.09	1.38	1.33
52	RJ	502	GDP	C5-N7	-2.08	1.34	1.39
52	VF	502	GDP	C5-N7	-2.08	1.34	1.39
52	NL	502	GDP	C5-N7	-2.08	1.34	1.39
50	LI	501	GTP	C2-N3	2.08	1.38	1.33
52	QB	502	GDP	C5-N7	-2.08	1.34	1.39
50	GK	501	GTP	C2-N3	2.08	1.38	1.33
50	VI	501	GTP	PB-O3A	2.08	1.61	1.59
52	AP	502	GDP	C5-N7	-2.08	1.34	1.39
52	CN	502	GDP	C5-N7	-2.08	1.34	1.39
52	UB	502	GDP	C5-N7	-2.08	1.34	1.39
52	KD	502	GDP	C5-N7	-2.08	1.34	1.39
52	JH	502	GDP	C5-N7	-2.08	1.34	1.39
52	CD	502	GDP	C5-N7	-2.08	1.34	1.39
52	GF	502	GDP	C5-N7	-2.08	1.34	1.39
52	VL	502	GDP	C5-N7	-2.08	1.34	1.39
50	AG	501	GTP	C2-N3	2.08	1.38	1.33
50	KI	501	GTP	C2-N3	2.08	1.38	1.33
52	CL	502	GDP	C5-N7	-2.08	1.34	1.39
50	KA	501	GTP	C2-N3	2.07	1.38	1.33
50	PM	501	GTP	C2-N3	2.07	1.38	1.33
52	LN	502	GDP	C5-N7	-2.07	1.34	1.39
50	AM	501	GTP	C2-N3	2.07	1.38	1.33
52	IF	502	GDP	C5-N7	-2.07	1.34	1.39
50	BG	501	GTP	C2-N3	2.07	1.38	1.33
52	OL	502	GDP	C5-N7	-2.07	1.34	1.39
50	LK	501	GTP	C2-N3	2.07	1.38	1.33
52	RF	502	GDP	C5-N7	-2.07	1.34	1.39
52	KN	502	GDP	C5-N7	-2.07	1.34	1.39
52	ND	502	GDP	C5-N7	-2.07	1.34	1.39
52	JD	502	GDP	C5-N7	-2.07	1.34	1.39
52	HB	502	GDP	C5-N7	-2.07	1.34	1.39
52	KP	502	GDP	C5-N7	-2.07	1.34	1.39
52	HJ	502	GDP	C5-N7	-2.07	1.34	1.39
52	MP	502	GDP	C5-N7	-2.07	1.34	1.39
52	BP	502	GDP	C5-N7	-2.07	1.34	1.39
52	GH	502	GDP	C5-N7	-2.06	1.34	1.39
52	EB	502	GDP	C5-N7	-2.06	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	HL	502	GDP	C5-N7	-2.06	1.34	1.39
52	OD	502	GDP	C5-N7	-2.06	1.34	1.39
52	VB	502	GDP	C5-N7	-2.06	1.34	1.39
52	RP	502	GDP	C5-N7	-2.06	1.34	1.39
50	AI	501	GTP	C2-N3	2.06	1.38	1.33
52	NP	502	GDP	C5-N7	-2.06	1.34	1.39
52	NB	502	GDP	C5-N7	-2.06	1.34	1.39
52	WB	502	GDP	C5-N7	-2.06	1.34	1.39
52	FF	502	GDP	C5-N7	-2.06	1.34	1.39
52	UN	502	GDP	C5-N7	-2.06	1.34	1.39
52	OH	502	GDP	C5-N7	-2.06	1.34	1.39
52	DP	502	GDP	C5-N7	-2.06	1.34	1.39
50	MC	501	GTP	C2-N3	2.06	1.38	1.33
52	QH	502	GDP	C5-N7	-2.06	1.34	1.39
52	QL	502	GDP	C5-N7	-2.06	1.34	1.39
50	MG	501	GTP	C2-N3	2.06	1.38	1.33
52	JP	502	GDP	C5-N7	-2.06	1.35	1.39
52	CB	502	GDP	C5-N7	-2.06	1.35	1.39
52	EN	502	GDP	C5-N7	-2.06	1.35	1.39
52	QF	502	GDP	C5-N7	-2.06	1.35	1.39
52	PJ	502	GDP	C5-N7	-2.05	1.35	1.39
52	NJ	502	GDP	C5-N7	-2.05	1.35	1.39
52	WD	502	GDP	C5-N7	-2.05	1.35	1.39
50	HO	501	GTP	PB-O3B	2.05	1.61	1.59
52	WL	502	GDP	C5-N7	-2.05	1.35	1.39
50	RK	501	GTP	PA-O3A	2.05	1.61	1.59
52	WP	502	GDP	C5-N7	-2.05	1.35	1.39
50	RI	501	GTP	PA-O3A	2.05	1.61	1.59
52	KL	502	GDP	C5-N7	-2.05	1.35	1.39
52	JJ	502	GDP	C4-N9	-2.04	1.32	1.38
50	RM	501	GTP	PA-O3A	2.04	1.61	1.59
52	DJ	502	GDP	C5-N7	-2.04	1.35	1.39
52	OP	502	GDP	C5-N7	-2.04	1.35	1.39
52	PP	502	GDP	C5-N7	-2.04	1.35	1.39
52	SD	502	GDP	C5-N7	-2.04	1.35	1.39
52	TB	502	GDP	C5-N7	-2.04	1.35	1.39
50	VA	501	GTP	PA-O3A	2.04	1.61	1.59
52	EF	502	GDP	C5-N7	-2.04	1.35	1.39
52	MN	502	GDP	C5-N7	-2.04	1.35	1.39
52	UF	502	GDP	C5-N7	-2.04	1.35	1.39
52	RN	502	GDP	C5-N7	-2.04	1.35	1.39
52	TL	502	GDP	C5-N7	-2.04	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	UL	502	GDP	C5-N7	-2.04	1.35	1.39
52	UJ	502	GDP	C5-N7	-2.04	1.35	1.39
50	JC	501	GTP	PA-O3A	2.04	1.61	1.59
52	UD	502	GDP	C5-N7	-2.04	1.35	1.39
50	RC	501	GTP	PA-O3A	2.04	1.61	1.59
52	VD	502	GDP	C5-N7	-2.03	1.35	1.39
52	DB	502	GDP	C5-N7	-2.03	1.35	1.39
50	KG	501	GTP	C2-N3	2.03	1.38	1.33
52	WN	502	GDP	C5-N7	-2.03	1.35	1.39
52	TF	502	GDP	C5-N7	-2.03	1.35	1.39
52	DF	502	GDP	C5-N7	-2.03	1.35	1.39
52	PH	502	GDP	C5-N7	-2.03	1.35	1.39
52	WH	502	GDP	C5-N7	-2.03	1.35	1.39
52	SJ	502	GDP	C5-N7	-2.02	1.35	1.39
52	TD	502	GDP	C5-N7	-2.02	1.35	1.39
52	TJ	502	GDP	C5-N7	-2.02	1.35	1.39
50	HG	501	GTP	C2-N3	2.02	1.38	1.33
50	KC	501	GTP	C2-N3	2.02	1.38	1.33
52	SN	502	GDP	C5-N7	-2.02	1.35	1.39
52	WF	502	GDP	C5-N7	-2.02	1.35	1.39
50	RG	501	GTP	PA-O3A	2.02	1.61	1.59
50	QG	501	GTP	PB-O3A	2.01	1.61	1.59
50	JI	501	GTP	C2-N3	2.01	1.38	1.33
52	PF	502	GDP	C5-N7	-2.01	1.35	1.39
52	JL	502	GDP	C5-N7	-2.01	1.35	1.39
52	ML	502	GDP	C4-N9	-2.01	1.32	1.38
52	DH	502	GDP	C5-N7	-2.01	1.35	1.39
50	CK	501	GTP	C5-N7	-2.01	1.35	1.39
52	PL	502	GDP	C5-N7	-2.01	1.35	1.39
50	JG	501	GTP	PA-O3A	2.01	1.61	1.59
52	DN	502	GDP	C5-N7	-2.01	1.35	1.39
50	RI	501	GTP	PB-O3A	2.01	1.61	1.59
52	PD	502	GDP	C5-N7	-2.01	1.35	1.39
52	QJ	502	GDP	C5-N7	-2.00	1.35	1.39
52	VN	502	GDP	C5-N7	-2.00	1.35	1.39
52	PB	502	GDP	C5-N7	-2.00	1.35	1.39
52	WJ	502	GDP	C5-N7	-2.00	1.35	1.39
52	CP	502	GDP	C5-N7	-2.00	1.35	1.39
52	JJ	502	GDP	C5-N7	-2.00	1.35	1.39

All (2671) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	GD	502	GDP	C5-C4-N3	-6.37	118.26	128.39
52	IJ	502	GDP	C5-C4-N3	-6.28	118.39	128.39
52	OB	502	GDP	C5-C4-N3	-6.25	118.44	128.39
52	QP	502	GDP	C5-C4-N3	-6.25	118.45	128.39
52	FJ	502	GDP	C5-C4-N3	-6.24	118.46	128.39
52	UF	502	GDP	C5-C4-N3	-6.23	118.48	128.39
52	CN	502	GDP	C5-C4-N3	-6.21	118.50	128.39
52	IH	502	GDP	C5-C4-N3	-6.21	118.51	128.39
52	RL	502	GDP	C5-C4-N3	-6.19	118.54	128.39
52	RD	502	GDP	C5-C4-N3	-6.17	118.58	128.39
52	KJ	502	GDP	C5-C4-N3	-6.16	118.58	128.39
52	CJ	502	GDP	C5-C4-N3	-6.16	118.59	128.39
52	UN	502	GDP	C5-C4-N3	-6.16	118.59	128.39
52	NL	502	GDP	C5-C4-N3	-6.16	118.59	128.39
52	RP	502	GDP	C5-C4-N3	-6.15	118.59	128.39
52	UJ	502	GDP	C5-C4-N3	-6.15	118.60	128.39
52	UH	502	GDP	C5-C4-N3	-6.15	118.61	128.39
52	DH	502	GDP	C5-C4-N3	-6.14	118.61	128.39
52	SB	502	GDP	C5-C4-N3	-6.14	118.62	128.39
52	QB	502	GDP	C5-C4-N3	-6.14	118.62	128.39
52	RH	502	GDP	C5-C4-N3	-6.13	118.63	128.39
52	UB	502	GDP	C5-C4-N3	-6.13	118.64	128.39
52	VD	502	GDP	C5-C4-N3	-6.13	118.64	128.39
52	VJ	502	GDP	C5-C4-N3	-6.13	118.64	128.39
52	OF	502	GDP	C5-C4-N3	-6.13	118.64	128.39
52	HN	502	GDP	C5-C4-N3	-6.13	118.64	128.39
52	IN	502	GDP	C5-C4-N3	-6.12	118.65	128.39
52	DL	502	GDP	C5-C4-N3	-6.12	118.65	128.39
52	JH	502	GDP	C5-C4-N3	-6.12	118.65	128.39
52	BF	502	GDP	C5-C4-N3	-6.11	118.66	128.39
52	WP	502	GDP	C5-C4-N3	-6.11	118.67	128.39
52	FD	502	GDP	C5-C4-N3	-6.11	118.67	128.39
52	OP	502	GDP	C5-C4-N3	-6.10	118.67	128.39
52	RF	502	GDP	C5-C4-N3	-6.10	118.68	128.39
52	WB	502	GDP	C5-C4-N3	-6.10	118.68	128.39
52	WD	502	GDP	C5-C4-N3	-6.10	118.68	128.39
52	VH	502	GDP	C5-C4-N3	-6.10	118.69	128.39
52	VL	502	GDP	C5-C4-N3	-6.10	118.69	128.39
52	NP	502	GDP	C5-C4-N3	-6.09	118.69	128.39
52	JL	502	GDP	C5-C4-N3	-6.09	118.70	128.39
52	GF	502	GDP	C5-C4-N3	-6.09	118.70	128.39
52	DJ	502	GDP	C5-C4-N3	-6.08	118.71	128.39
52	ED	502	GDP	C5-C4-N3	-6.08	118.71	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	WL	502	GDP	C5-C4-N3	-6.08	118.71	128.39
52	PF	502	GDP	C5-C4-N3	-6.08	118.71	128.39
52	EH	502	GDP	C5-C4-N3	-6.08	118.71	128.39
52	QD	502	GDP	C5-C4-N3	-6.08	118.72	128.39
52	RJ	502	GDP	C5-C4-N3	-6.07	118.73	128.39
52	DN	502	GDP	C5-C4-N3	-6.07	118.73	128.39
52	BJ	502	GDP	C5-C4-N3	-6.07	118.73	128.39
52	IF	502	GDP	C5-C4-N3	-6.07	118.73	128.39
52	NF	502	GDP	C5-C4-N3	-6.07	118.73	128.39
52	PB	502	GDP	C5-C4-N3	-6.07	118.73	128.39
52	AN	502	GDP	C5-C4-N3	-6.07	118.74	128.39
52	VN	502	GDP	C5-C4-N3	-6.06	118.74	128.39
52	BB	502	GDP	C5-C4-N3	-6.06	118.74	128.39
52	UL	502	GDP	C5-C4-N3	-6.06	118.75	128.39
52	IL	502	GDP	C5-C4-N3	-6.06	118.75	128.39
52	PP	502	GDP	C5-C4-N3	-6.06	118.75	128.39
52	NB	502	GDP	C5-C4-N3	-6.06	118.75	128.39
52	AD	502	GDP	C5-C4-N3	-6.05	118.76	128.39
52	QN	502	GDP	C5-C4-N3	-6.05	118.76	128.39
52	BN	502	GDP	C5-C4-N3	-6.05	118.77	128.39
52	JN	502	GDP	C5-C4-N3	-6.05	118.77	128.39
52	KB	502	GDP	C5-C4-N3	-6.05	118.77	128.39
52	QF	502	GDP	C5-C4-N3	-6.04	118.77	128.39
52	BD	502	GDP	C5-C4-N3	-6.04	118.77	128.39
52	PJ	502	GDP	C5-C4-N3	-6.04	118.78	128.39
52	FL	502	GDP	C5-C4-N3	-6.04	118.78	128.39
52	VF	502	GDP	C5-C4-N3	-6.04	118.78	128.39
52	CF	502	GDP	C5-C4-N3	-6.03	118.79	128.39
52	TL	502	GDP	C5-C4-N3	-6.03	118.79	128.39
52	PH	502	GDP	C5-C4-N3	-6.03	118.79	128.39
52	AP	502	GDP	C5-C4-N3	-6.03	118.79	128.39
52	WN	502	GDP	C5-C4-N3	-6.03	118.79	128.39
52	AB	502	GDP	C5-C4-N3	-6.03	118.80	128.39
52	SN	502	GDP	C5-C4-N3	-6.03	118.80	128.39
52	VB	502	GDP	C5-C4-N3	-6.02	118.80	128.39
52	FN	502	GDP	C5-C4-N3	-6.02	118.80	128.39
52	MN	502	GDP	C5-C4-N3	-6.02	118.80	128.39
52	DF	502	GDP	C5-C4-N3	-6.02	118.81	128.39
52	FB	502	GDP	C5-C4-N3	-6.02	118.81	128.39
52	LB	502	GDP	C5-C4-N3	-6.02	118.81	128.39
52	EL	502	GDP	C5-C4-N3	-6.02	118.81	128.39
52	TN	502	GDP	C5-C4-N3	-6.02	118.81	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	PL	502	GDP	C5-C4-N3	-6.02	118.81	128.39
52	AL	502	GDP	C5-C4-N3	-6.02	118.81	128.39
52	UD	502	GDP	C5-C4-N3	-6.01	118.82	128.39
52	IP	502	GDP	C5-C4-N3	-6.01	118.82	128.39
52	WH	502	GDP	C5-C4-N3	-6.01	118.82	128.39
52	KP	502	GDP	C5-C4-N3	-6.01	118.83	128.39
52	PD	502	GDP	C5-C4-N3	-6.01	118.83	128.39
52	DB	502	GDP	C5-C4-N3	-6.01	118.83	128.39
52	BP	502	GDP	C5-C4-N3	-6.00	118.83	128.39
52	OH	502	GDP	C5-C4-N3	-6.00	118.83	128.39
52	WF	502	GDP	C5-C4-N3	-6.00	118.83	128.39
52	HJ	502	GDP	C5-C4-N3	-6.00	118.84	128.39
52	HL	502	GDP	C5-C4-N3	-6.00	118.84	128.39
52	JB	502	GDP	C5-C4-N3	-6.00	118.84	128.39
52	RN	502	GDP	C5-C4-N3	-6.00	118.84	128.39
52	CB	502	GDP	C5-C4-N3	-6.00	118.84	128.39
52	QL	502	GDP	C5-C4-N3	-6.00	118.85	128.39
52	WJ	502	GDP	C5-C4-N3	-6.00	118.85	128.39
52	QH	502	GDP	C5-C4-N3	-5.99	118.85	128.39
52	JD	502	GDP	C5-C4-N3	-5.99	118.85	128.39
52	LD	502	GDP	C5-C4-N3	-5.99	118.85	128.39
52	SH	502	GDP	C5-C4-N3	-5.99	118.85	128.39
52	HP	502	GDP	C5-C4-N3	-5.99	118.86	128.39
52	TB	502	GDP	C5-C4-N3	-5.99	118.86	128.39
52	BH	502	GDP	C5-C4-N3	-5.99	118.86	128.39
52	QJ	502	GDP	C5-C4-N3	-5.99	118.86	128.39
52	EJ	502	GDP	C5-C4-N3	-5.99	118.86	128.39
52	FH	502	GDP	C5-C4-N3	-5.99	118.86	128.39
52	ND	502	GDP	C5-C4-N3	-5.98	118.87	128.39
52	SD	502	GDP	C5-C4-N3	-5.98	118.88	128.39
52	SF	502	GDP	C5-C4-N3	-5.98	118.88	128.39
52	SL	502	GDP	C5-C4-N3	-5.98	118.88	128.39
52	GL	502	GDP	C5-C4-N3	-5.98	118.88	128.39
52	HB	502	GDP	C5-C4-N3	-5.97	118.89	128.39
52	ON	502	GDP	C5-C4-N3	-5.97	118.89	128.39
52	EN	502	GDP	C5-C4-N3	-5.96	118.90	128.39
52	DP	502	GDP	C5-C4-N3	-5.96	118.91	128.39
52	TF	502	GDP	C5-C4-N3	-5.96	118.91	128.39
52	KN	502	GDP	C5-C4-N3	-5.96	118.91	128.39
52	NJ	502	GDP	C5-C4-N3	-5.95	118.92	128.39
52	AJ	502	GDP	C5-C4-N3	-5.95	118.92	128.39
52	MP	502	GDP	C5-C4-N3	-5.95	118.92	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	TD	502	GDP	C5-C4-N3	-5.95	118.93	128.39
52	GH	502	GDP	C5-C4-N3	-5.94	118.94	128.39
52	CP	502	GDP	C5-C4-N3	-5.94	118.94	128.39
52	HF	502	GDP	C5-C4-N3	-5.94	118.94	128.39
52	CL	502	GDP	C5-C4-N3	-5.93	118.95	128.39
52	IB	502	GDP	C5-C4-N3	-5.93	118.95	128.39
52	KF	502	GDP	C5-C4-N3	-5.93	118.95	128.39
52	NN	502	GDP	C5-C4-N3	-5.92	118.97	128.39
52	GN	502	GDP	C5-C4-N3	-5.92	118.97	128.39
52	DD	502	GDP	C5-C4-N3	-5.91	118.98	128.39
52	ID	502	GDP	C5-C4-N3	-5.91	118.98	128.39
52	LN	502	GDP	C5-C4-N3	-5.91	118.98	128.39
52	OD	502	GDP	C5-C4-N3	-5.91	118.98	128.39
52	CD	502	GDP	C5-C4-N3	-5.90	119.00	128.39
52	CH	502	GDP	C5-C4-N3	-5.90	119.00	128.39
52	EF	502	GDP	C5-C4-N3	-5.90	119.00	128.39
52	AF	502	GDP	C5-C4-N3	-5.89	119.01	128.39
52	FF	502	GDP	C5-C4-N3	-5.89	119.01	128.39
52	MF	502	GDP	C5-C4-N3	-5.89	119.02	128.39
52	TJ	502	GDP	C5-C4-N3	-5.88	119.03	128.39
52	HD	502	GDP	C5-C4-N3	-5.88	119.03	128.39
52	OJ	502	GDP	C5-C4-N3	-5.87	119.04	128.39
52	EB	502	GDP	C5-C4-N3	-5.87	119.04	128.39
52	AH	502	GDP	C5-C4-N3	-5.87	119.04	128.39
52	TH	502	GDP	C5-C4-N3	-5.87	119.04	128.39
52	BL	502	GDP	C5-C4-N3	-5.87	119.06	128.39
52	JP	502	GDP	C5-C4-N3	-5.86	119.06	128.39
52	LP	502	GDP	C5-C4-N3	-5.86	119.07	128.39
52	LJ	502	GDP	C5-C4-N3	-5.85	119.08	128.39
52	KD	502	GDP	C5-C4-N3	-5.85	119.09	128.39
52	KL	502	GDP	C5-C4-N3	-5.85	119.09	128.39
52	KH	502	GDP	C5-C4-N3	-5.84	119.10	128.39
52	LF	502	GDP	C5-C4-N3	-5.82	119.12	128.39
52	SJ	502	GDP	C5-C4-N3	-5.82	119.13	128.39
52	NH	502	GDP	C5-C4-N3	-5.81	119.14	128.39
52	OL	502	GDP	C5-C4-N3	-5.81	119.14	128.39
52	GJ	502	GDP	C5-C4-N3	-5.80	119.15	128.39
52	MJ	502	GDP	C5-C4-N3	-5.80	119.16	128.39
52	MD	502	GDP	C5-C4-N3	-5.79	119.18	128.39
52	PN	502	GDP	C5-C4-N3	-5.79	119.18	128.39
52	MH	502	GDP	C5-C4-N3	-5.77	119.20	128.39
52	HH	502	GDP	C5-C4-N3	-5.76	119.22	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	LL	502	GDP	C5-C4-N3	-5.70	119.33	128.39
52	ML	502	GDP	C5-C4-N3	-5.70	119.33	128.39
52	JJ	502	GDP	C5-C4-N3	-5.65	119.40	128.39
52	JF	502	GDP	C5-C4-N3	-5.58	119.51	128.39
52	GB	502	GDP	C5-C4-N3	-5.56	119.55	128.39
50	VI	501	GTP	C5-C4-N3	-5.55	119.56	128.39
50	CK	501	GTP	C5-C4-N3	-5.51	119.62	128.39
52	MB	502	GDP	C5-C4-N3	-5.46	119.70	128.39
52	LH	502	GDP	C5-C4-N3	-5.42	119.76	128.39
50	IK	501	GTP	C5-C4-N3	-5.41	119.78	128.39
50	JK	501	GTP	C5-C4-N3	-5.40	119.80	128.39
50	AE	501	GTP	C5-C4-N3	-5.38	119.82	128.39
50	DK	501	GTP	C5-C4-N3	-5.37	119.84	128.39
50	CG	501	GTP	C5-C4-N3	-5.35	119.88	128.39
50	JO	501	GTP	C5-C4-N3	-5.34	119.88	128.39
50	IG	501	GTP	C5-C4-N3	-5.33	119.91	128.39
50	LE	501	GTP	C5-C4-N3	-5.32	119.92	128.39
50	ME	501	GTP	C5-C4-N3	-5.32	119.92	128.39
50	DM	501	GTP	C5-C4-N3	-5.31	119.94	128.39
50	JE	501	GTP	C5-C4-N3	-5.28	119.98	128.39
50	IO	501	GTP	C5-C4-N3	-5.28	119.98	128.39
50	LG	501	GTP	C5-C4-N3	-5.28	119.99	128.39
50	CI	501	GTP	C5-C4-N3	-5.28	119.99	128.39
52	JF	502	GDP	C2-N3-C4	5.28	121.39	112.30
50	HO	501	GTP	C5-C4-N3	-5.27	120.00	128.39
50	CM	501	GTP	C5-C4-N3	-5.27	120.00	128.39
50	RK	501	GTP	C5-C4-N3	-5.26	120.01	128.39
50	RM	501	GTP	C5-C4-N3	-5.26	120.02	128.39
50	BC	501	GTP	C5-C4-N3	-5.25	120.03	128.39
50	BE	501	GTP	C5-C4-N3	-5.25	120.03	128.39
50	EA	501	GTP	C5-C4-N3	-5.25	120.04	128.39
50	BM	501	GTP	C5-C4-N3	-5.25	120.04	128.39
50	VK	501	GTP	C5-C4-N3	-5.24	120.05	128.39
50	BI	501	GTP	C5-C4-N3	-5.23	120.06	128.39
50	CQ	501	GTP	C5-C4-N3	-5.23	120.07	128.39
50	WO	501	GTP	C5-C4-N3	-5.23	120.07	128.39
50	QG	501	GTP	C5-C4-N3	-5.23	120.07	128.39
50	WE	501	GTP	C5-C4-N3	-5.22	120.08	128.39
50	HK	501	GTP	C5-C4-N3	-5.21	120.09	128.39
50	EI	501	GTP	C5-C4-N3	-5.21	120.10	128.39
50	IE	501	GTP	C5-C4-N3	-5.20	120.12	128.39
50	RI	501	GTP	C5-C4-N3	-5.19	120.12	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BO	501	GTP	C5-C4-N3	-5.19	120.13	128.39
50	EE	501	GTP	C5-C4-N3	-5.18	120.14	128.39
50	JC	501	GTP	C5-C4-N3	-5.18	120.14	128.39
50	CO	501	GTP	C5-C4-N3	-5.17	120.15	128.39
50	WI	501	GTP	C5-C4-N3	-5.17	120.15	128.39
50	KK	501	GTP	C5-C4-N3	-5.17	120.16	128.39
50	DI	501	GTP	C5-C4-N3	-5.17	120.16	128.39
50	VG	501	GTP	C5-C4-N3	-5.17	120.16	128.39
50	JM	501	GTP	C5-C4-N3	-5.16	120.17	128.39
50	LC	501	GTP	C5-C4-N3	-5.16	120.17	128.39
50	UM	501	GTP	C5-C4-N3	-5.16	120.17	128.39
50	VA	501	GTP	C5-C4-N3	-5.16	120.18	128.39
50	FO	501	GTP	C5-C4-N3	-5.16	120.18	128.39
50	AI	501	GTP	C5-C4-N3	-5.16	120.18	128.39
50	EC	501	GTP	C5-C4-N3	-5.15	120.19	128.39
50	UO	501	GTP	C5-C4-N3	-5.15	120.19	128.39
50	BK	501	GTP	C5-C4-N3	-5.15	120.19	128.39
50	LA	501	GTP	C5-C4-N3	-5.15	120.19	128.39
50	VM	501	GTP	C5-C4-N3	-5.15	120.20	128.39
52	GD	502	GDP	N9-C4-N3	5.15	136.24	125.95
50	SC	501	GTP	C5-C4-N3	-5.14	120.20	128.39
50	EK	501	GTP	C5-C4-N3	-5.14	120.21	128.39
50	VC	501	GTP	C5-C4-N3	-5.14	120.22	128.39
50	RO	501	GTP	C5-C4-N3	-5.14	120.22	128.39
50	AG	501	GTP	C5-C4-N3	-5.13	120.23	128.39
50	GC	501	GTP	C5-C4-N3	-5.13	120.23	128.39
52	RD	502	GDP	C2-N3-C4	5.13	121.13	112.30
50	UK	501	GTP	C5-C4-N3	-5.12	120.24	128.39
52	CJ	502	GDP	C2-N3-C4	5.12	121.12	112.30
50	DG	501	GTP	C5-C4-N3	-5.12	120.25	128.39
50	HA	501	GTP	C5-C4-N3	-5.12	120.25	128.39
50	IM	501	GTP	C5-C4-N3	-5.12	120.25	128.39
50	VE	501	GTP	C5-C4-N3	-5.11	120.25	128.39
50	AO	501	GTP	C5-C4-N3	-5.11	120.26	128.39
50	AA	501	GTP	C5-C4-N3	-5.11	120.26	128.39
52	IH	502	GDP	C2-N3-C4	5.11	121.09	112.30
52	IJ	502	GDP	C2-N3-C4	5.11	121.09	112.30
52	CN	502	GDP	C2-N3-C4	5.10	121.09	112.30
50	OA	501	GTP	C5-C4-N3	-5.10	120.27	128.39
50	PI	501	GTP	C5-C4-N3	-5.10	120.27	128.39
50	IA	501	GTP	C5-C4-N3	-5.10	120.28	128.39
52	UF	502	GDP	C2-N3-C4	5.10	121.08	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	UH	502	GDP	C2-N3-C4	5.10	121.08	112.30
50	RE	501	GTP	C5-C4-N3	-5.10	120.28	128.39
50	QE	501	GTP	C5-C4-N3	-5.09	120.28	128.39
52	BF	502	GDP	C2-N3-C4	5.09	121.07	112.30
50	FC	501	GTP	C5-C4-N3	-5.09	120.28	128.39
52	OJ	502	GDP	C2-N3-C4	5.09	121.07	112.30
50	UC	501	GTP	C5-C4-N3	-5.09	120.29	128.39
50	JG	501	GTP	C5-C4-N3	-5.09	120.29	128.39
50	RG	501	GTP	C5-C4-N3	-5.09	120.30	128.39
50	LI	501	GTP	C5-C4-N3	-5.08	120.30	128.39
50	PE	501	GTP	C5-C4-N3	-5.08	120.30	128.39
50	IC	501	GTP	C5-C4-N3	-5.08	120.30	128.39
52	VJ	502	GDP	C2-N3-C4	5.08	121.06	112.30
50	DQ	501	GTP	C5-C4-N3	-5.08	120.30	128.39
50	BG	501	GTP	C5-C4-N3	-5.08	120.30	128.39
50	UA	501	GTP	C5-C4-N3	-5.08	120.30	128.39
50	EM	501	GTP	C5-C4-N3	-5.08	120.31	128.39
52	VD	502	GDP	C2-N3-C4	5.08	121.05	112.30
50	CC	501	GTP	C5-C4-N3	-5.08	120.31	128.39
50	DC	501	GTP	C5-C4-N3	-5.07	120.31	128.39
50	EG	501	GTP	C5-C4-N3	-5.07	120.31	128.39
50	HC	501	GTP	C5-C4-N3	-5.07	120.32	128.39
50	CE	501	GTP	C5-C4-N3	-5.07	120.32	128.39
50	RC	501	GTP	C5-C4-N3	-5.07	120.33	128.39
52	DH	502	GDP	C2-N3-C4	5.06	121.02	112.30
52	JL	502	GDP	C2-N3-C4	5.06	121.02	112.30
52	VN	502	GDP	C2-N3-C4	5.06	121.02	112.30
52	OF	502	GDP	C2-N3-C4	5.06	121.02	112.30
50	KG	501	GTP	C5-C4-N3	-5.06	120.33	128.39
52	HN	502	GDP	C2-N3-C4	5.06	121.02	112.30
52	VH	502	GDP	C2-N3-C4	5.06	121.02	112.30
52	NL	502	GDP	C2-N3-C4	5.06	121.02	112.30
50	WM	501	GTP	C5-C4-N3	-5.06	120.34	128.39
52	VB	502	GDP	C2-N3-C4	5.06	121.01	112.30
50	HE	501	GTP	C5-C4-N3	-5.06	120.34	128.39
50	JI	501	GTP	C5-C4-N3	-5.06	120.34	128.39
52	QP	502	GDP	C2-N3-C4	5.06	121.01	112.30
50	VO	501	GTP	C5-C4-N3	-5.06	120.34	128.39
52	TB	502	GDP	C2-N3-C4	5.06	121.01	112.30
52	IF	502	GDP	C2-N3-C4	5.05	121.00	112.30
50	QM	501	GTP	C5-C4-N3	-5.05	120.35	128.39
50	PK	501	GTP	C5-C4-N3	-5.05	120.35	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	UJ	502	GDP	C2-N3-C4	5.05	121.00	112.30
52	PH	502	GDP	C2-N3-C4	5.05	121.00	112.30
50	UE	501	GTP	C5-C4-N3	-5.05	120.36	128.39
50	AK	501	GTP	C5-C4-N3	-5.05	120.36	128.39
52	NF	502	GDP	C2-N3-C4	5.05	120.99	112.30
50	OK	501	GTP	C5-C4-N3	-5.05	120.36	128.39
52	IL	502	GDP	C2-N3-C4	5.04	120.99	112.30
52	SD	502	GDP	C2-N3-C4	5.04	120.99	112.30
50	MA	501	GTP	C5-C4-N3	-5.04	120.36	128.39
50	QC	501	GTP	C5-C4-N3	-5.04	120.36	128.39
52	IN	502	GDP	C2-N3-C4	5.04	120.98	112.30
52	BP	502	GDP	C2-N3-C4	5.04	120.98	112.30
50	FA	501	GTP	C5-C4-N3	-5.04	120.37	128.39
52	UB	502	GDP	C2-N3-C4	5.04	120.98	112.30
52	PF	502	GDP	C2-N3-C4	5.04	120.98	112.30
50	HM	501	GTP	C5-C4-N3	-5.04	120.37	128.39
52	RP	502	GDP	C2-N3-C4	5.04	120.98	112.30
50	TC	501	GTP	C5-C4-N3	-5.04	120.37	128.39
52	PD	502	GDP	C2-N3-C4	5.04	120.97	112.30
50	KM	501	GTP	C5-C4-N3	-5.04	120.37	128.39
52	JN	502	GDP	C2-N3-C4	5.04	120.97	112.30
52	OD	502	GDP	C2-N3-C4	5.04	120.97	112.30
52	PJ	502	GDP	C2-N3-C4	5.04	120.97	112.30
50	OO	501	GTP	C5-C4-N3	-5.03	120.38	128.39
52	BD	502	GDP	C2-N3-C4	5.03	120.97	112.30
52	AN	502	GDP	C2-N3-C4	5.03	120.97	112.30
52	UN	502	GDP	C2-N3-C4	5.03	120.97	112.30
52	WJ	502	GDP	C2-N3-C4	5.03	120.97	112.30
50	LM	501	GTP	C5-C4-N3	-5.03	120.38	128.39
50	QI	501	GTP	C5-C4-N3	-5.03	120.38	128.39
50	KA	501	GTP	C5-C4-N3	-5.03	120.39	128.39
52	PL	502	GDP	C2-N3-C4	5.03	120.96	112.30
52	HL	502	GDP	C2-N3-C4	5.03	120.96	112.30
52	OP	502	GDP	C2-N3-C4	5.03	120.96	112.30
50	MK	501	GTP	C5-C4-N3	-5.03	120.39	128.39
52	DJ	502	GDP	C2-N3-C4	5.03	120.96	112.30
52	VL	502	GDP	C2-N3-C4	5.03	120.96	112.30
50	AC	501	GTP	C5-C4-N3	-5.02	120.39	128.39
52	HF	502	GDP	C2-N3-C4	5.02	120.95	112.30
52	LB	502	GDP	C2-N3-C4	5.02	120.95	112.30
50	DE	501	GTP	C5-C4-N3	-5.02	120.39	128.39
52	PP	502	GDP	C2-N3-C4	5.02	120.95	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	GO	501	GTP	C5-C4-N3	-5.02	120.40	128.39
52	QF	502	GDP	C2-N3-C4	5.02	120.95	112.30
52	WN	502	GDP	C2-N3-C4	5.02	120.95	112.30
50	GM	501	GTP	C5-C4-N3	-5.02	120.40	128.39
52	ED	502	GDP	C2-N3-C4	5.02	120.94	112.30
50	NO	501	GTP	C5-C4-N3	-5.02	120.40	128.39
52	CL	502	GDP	C2-N3-C4	5.02	120.94	112.30
52	EH	502	GDP	C2-N3-C4	5.02	120.94	112.30
52	QB	502	GDP	C2-N3-C4	5.02	120.94	112.30
50	GA	501	GTP	C5-C4-N3	-5.02	120.41	128.39
52	UD	502	GDP	C2-N3-C4	5.02	120.94	112.30
52	OH	502	GDP	C2-N3-C4	5.02	120.94	112.30
50	WA	501	GTP	C5-C4-N3	-5.01	120.41	128.39
52	FD	502	GDP	C2-N3-C4	5.01	120.94	112.30
50	NI	501	GTP	C5-C4-N3	-5.01	120.41	128.39
52	PB	502	GDP	C2-N3-C4	5.01	120.93	112.30
52	QD	502	GDP	C2-N3-C4	5.01	120.93	112.30
52	RL	502	GDP	C2-N3-C4	5.01	120.93	112.30
50	PO	501	GTP	C5-C4-N3	-5.01	120.41	128.39
52	UL	502	GDP	C2-N3-C4	5.01	120.93	112.30
52	NB	502	GDP	C2-N3-C4	5.01	120.93	112.30
50	FG	501	GTP	C5-C4-N3	-5.01	120.42	128.39
52	AB	502	GDP	C2-N3-C4	5.01	120.92	112.30
52	TN	502	GDP	C2-N3-C4	5.01	120.92	112.30
52	DN	502	GDP	C2-N3-C4	5.01	120.92	112.30
50	OM	501	GTP	C5-C4-N3	-5.01	120.42	128.39
52	DF	502	GDP	C2-N3-C4	5.00	120.92	112.30
52	AP	502	GDP	C2-N3-C4	5.00	120.92	112.30
52	BH	502	GDP	C2-N3-C4	5.00	120.92	112.30
52	BN	502	GDP	C2-N3-C4	5.00	120.92	112.30
52	WB	502	GDP	C2-N3-C4	5.00	120.92	112.30
52	EL	502	GDP	C2-N3-C4	5.00	120.92	112.30
50	UI	501	GTP	C5-C4-N3	-5.00	120.43	128.39
50	UG	501	GTP	C5-C4-N3	-5.00	120.43	128.39
50	PM	501	GTP	C5-C4-N3	-5.00	120.43	128.39
52	BJ	502	GDP	C2-N3-C4	5.00	120.91	112.30
50	SG	501	GTP	C5-C4-N3	-5.00	120.43	128.39
52	WP	502	GDP	C2-N3-C4	5.00	120.91	112.30
52	AL	502	GDP	C2-N3-C4	5.00	120.91	112.30
52	BB	502	GDP	C2-N3-C4	5.00	120.91	112.30
52	QH	502	GDP	C2-N3-C4	5.00	120.91	112.30
50	WG	501	GTP	C5-C4-N3	-5.00	120.44	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	JQ	501	GTP	C5-C4-N3	-4.99	120.44	128.39
52	HH	502	GDP	C2-N3-C4	4.99	120.90	112.30
50	OG	501	GTP	C5-C4-N3	-4.99	120.44	128.39
52	RF	502	GDP	C2-N3-C4	4.99	120.90	112.30
50	NC	501	GTP	C5-C4-N3	-4.99	120.44	128.39
52	KN	502	GDP	C2-N3-C4	4.99	120.90	112.30
52	TL	502	GDP	C2-N3-C4	4.99	120.90	112.30
52	QN	502	GDP	C2-N3-C4	4.99	120.90	112.30
52	CF	502	GDP	C2-N3-C4	4.99	120.89	112.30
52	JD	502	GDP	C2-N3-C4	4.99	120.89	112.30
52	RJ	502	GDP	C2-N3-C4	4.99	120.89	112.30
52	SN	502	GDP	C2-N3-C4	4.99	120.89	112.30
52	GF	502	GDP	C2-N3-C4	4.99	120.89	112.30
50	LO	501	GTP	C5-C4-N3	-4.99	120.45	128.39
52	VF	502	GDP	C2-N3-C4	4.99	120.89	112.30
52	NP	502	GDP	C2-N3-C4	4.99	120.89	112.30
50	OI	501	GTP	C5-C4-N3	-4.99	120.45	128.39
52	EB	502	GDP	C2-N3-C4	4.98	120.89	112.30
52	ID	502	GDP	C2-N3-C4	4.98	120.89	112.30
52	RH	502	GDP	C2-N3-C4	4.98	120.88	112.30
52	RN	502	GDP	C2-N3-C4	4.98	120.88	112.30
50	TA	501	GTP	C5-C4-N3	-4.98	120.46	128.39
50	MC	501	GTP	C5-C4-N3	-4.98	120.46	128.39
50	QK	501	GTP	C5-C4-N3	-4.98	120.46	128.39
52	FB	502	GDP	C2-N3-C4	4.98	120.88	112.30
50	SM	501	GTP	C5-C4-N3	-4.98	120.46	128.39
52	WF	502	GDP	C2-N3-C4	4.98	120.88	112.30
52	DB	502	GDP	C2-N3-C4	4.98	120.88	112.30
52	AH	502	GDP	C2-N3-C4	4.98	120.87	112.30
52	JP	502	GDP	C2-N3-C4	4.98	120.87	112.30
52	TD	502	GDP	C2-N3-C4	4.98	120.87	112.30
52	EF	502	GDP	C2-N3-C4	4.98	120.87	112.30
52	NN	502	GDP	C2-N3-C4	4.98	120.87	112.30
52	WD	502	GDP	C2-N3-C4	4.98	120.87	112.30
50	OC	501	GTP	C5-C4-N3	-4.97	120.47	128.39
52	QJ	502	GDP	C2-N3-C4	4.97	120.87	112.30
50	DO	501	GTP	C5-C4-N3	-4.97	120.48	128.39
52	NJ	502	GDP	C2-N3-C4	4.97	120.86	112.30
52	AD	502	GDP	C2-N3-C4	4.97	120.86	112.30
52	WL	502	GDP	C2-N3-C4	4.97	120.86	112.30
52	ND	502	GDP	C2-N3-C4	4.97	120.86	112.30
52	FL	502	GDP	C2-N3-C4	4.97	120.86	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	OE	501	GTP	C5-C4-N3	-4.97	120.48	128.39
52	CB	502	GDP	C2-N3-C4	4.97	120.86	112.30
52	JB	502	GDP	C2-N3-C4	4.97	120.86	112.30
50	KC	501	GTP	C5-C4-N3	-4.97	120.48	128.39
52	EN	502	GDP	C2-N3-C4	4.97	120.86	112.30
52	MN	502	GDP	C2-N3-C4	4.97	120.86	112.30
52	HB	502	GDP	C2-N3-C4	4.97	120.85	112.30
52	FF	502	GDP	C2-N3-C4	4.96	120.85	112.30
52	AF	502	GDP	C2-N3-C4	4.96	120.85	112.30
52	AJ	502	GDP	C2-N3-C4	4.96	120.85	112.30
52	DL	502	GDP	C2-N3-C4	4.96	120.85	112.30
52	IB	502	GDP	C2-N3-C4	4.96	120.85	112.30
50	NA	501	GTP	C5-C4-N3	-4.96	120.49	128.39
52	TJ	502	GDP	C2-N3-C4	4.96	120.84	112.30
50	AM	501	GTP	C5-C4-N3	-4.96	120.49	128.39
52	CH	502	GDP	C2-N3-C4	4.96	120.84	112.30
52	HP	502	GDP	C2-N3-C4	4.96	120.84	112.30
52	QL	502	GDP	C2-N3-C4	4.96	120.84	112.30
50	SA	501	GTP	C5-C4-N3	-4.96	120.50	128.39
52	FN	502	GDP	C2-N3-C4	4.96	120.84	112.30
52	MP	502	GDP	C2-N3-C4	4.96	120.83	112.30
52	CP	502	GDP	C2-N3-C4	4.95	120.83	112.30
52	KJ	502	GDP	C2-N3-C4	4.95	120.83	112.30
52	OL	502	GDP	C2-N3-C4	4.95	120.83	112.30
52	SB	502	GDP	C2-N3-C4	4.95	120.83	112.30
50	WC	501	GTP	C5-C4-N3	-4.95	120.51	128.39
52	HJ	502	GDP	C2-N3-C4	4.95	120.83	112.30
50	LK	501	GTP	C5-C4-N3	-4.95	120.51	128.39
50	EO	501	GTP	C5-C4-N3	-4.95	120.51	128.39
52	TH	502	GDP	C2-N3-C4	4.95	120.82	112.30
50	GI	501	GTP	C5-C4-N3	-4.95	120.52	128.39
52	CD	502	GDP	C2-N3-C4	4.95	120.82	112.30
52	JJ	502	GDP	C2-N3-C4	4.95	120.82	112.30
52	LD	502	GDP	C2-N3-C4	4.94	120.82	112.30
50	GG	501	GTP	C5-C4-N3	-4.94	120.52	128.39
52	NH	502	GDP	C2-N3-C4	4.94	120.81	112.30
52	DP	502	GDP	C2-N3-C4	4.94	120.81	112.30
52	GL	502	GDP	C2-N3-C4	4.94	120.81	112.30
50	HI	501	GTP	C5-C4-N3	-4.94	120.53	128.39
50	NE	501	GTP	C5-C4-N3	-4.94	120.53	128.39
52	GN	502	GDP	C2-N3-C4	4.94	120.81	112.30
52	BL	502	GDP	C2-N3-C4	4.94	120.80	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	HD	502	GDP	C2-N3-C4	4.94	120.80	112.30
52	IP	502	GDP	C2-N3-C4	4.93	120.80	112.30
50	FI	501	GTP	C5-C4-N3	-4.93	120.54	128.39
52	LP	502	GDP	C2-N3-C4	4.93	120.79	112.30
52	WH	502	GDP	C2-N3-C4	4.93	120.79	112.30
52	DD	502	GDP	C2-N3-C4	4.93	120.79	112.30
52	KP	502	GDP	C2-N3-C4	4.93	120.79	112.30
50	SK	501	GTP	C5-C4-N3	-4.93	120.54	128.39
52	TF	502	GDP	C2-N3-C4	4.93	120.79	112.30
52	LF	502	GDP	C2-N3-C4	4.92	120.78	112.30
50	GE	501	GTP	C5-C4-N3	-4.92	120.55	128.39
52	PN	502	GDP	C2-N3-C4	4.92	120.78	112.30
52	LN	502	GDP	C2-N3-C4	4.92	120.77	112.30
52	GH	502	GDP	C2-N3-C4	4.92	120.77	112.30
50	II	501	GTP	C5-C4-N3	-4.92	120.56	128.39
52	KB	502	GDP	C2-N3-C4	4.92	120.77	112.30
52	EJ	502	GDP	C2-N3-C4	4.92	120.77	112.30
52	FH	502	GDP	C2-N3-C4	4.92	120.77	112.30
50	WK	501	GTP	C5-C4-N3	-4.91	120.57	128.39
52	FJ	502	GDP	C2-N3-C4	4.91	120.76	112.30
52	SF	502	GDP	C2-N3-C4	4.91	120.76	112.30
50	KI	501	GTP	C5-C4-N3	-4.91	120.57	128.39
52	KH	502	GDP	C2-N3-C4	4.91	120.76	112.30
50	MG	501	GTP	C5-C4-N3	-4.91	120.58	128.39
50	FE	501	GTP	C5-C4-N3	-4.91	120.58	128.39
50	FM	501	GTP	C5-C4-N3	-4.91	120.58	128.39
50	TE	501	GTP	C5-C4-N3	-4.90	120.59	128.39
52	LJ	502	GDP	C2-N3-C4	4.90	120.74	112.30
52	MF	502	GDP	C2-N3-C4	4.90	120.74	112.30
52	MH	502	GDP	C2-N3-C4	4.90	120.73	112.30
50	TG	501	GTP	C5-C4-N3	-4.90	120.60	128.39
52	MJ	502	GDP	C2-N3-C4	4.89	120.73	112.30
50	SE	501	GTP	C5-C4-N3	-4.89	120.60	128.39
50	KO	501	GTP	C5-C4-N3	-4.89	120.61	128.39
50	TI	501	GTP	C5-C4-N3	-4.89	120.61	128.39
52	OB	502	GDP	C2-N3-C4	4.88	120.71	112.30
52	SL	502	GDP	C2-N3-C4	4.88	120.71	112.30
52	SH	502	GDP	C2-N3-C4	4.87	120.70	112.30
52	MB	502	GDP	C2-N3-C4	4.87	120.69	112.30
50	NK	501	GTP	C5-C4-N3	-4.87	120.63	128.39
52	KF	502	GDP	C2-N3-C4	4.87	120.69	112.30
52	KL	502	GDP	C2-N3-C4	4.87	120.69	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	KD	502	GDP	C2-N3-C4	4.86	120.68	112.30
50	FK	501	GTP	C5-C4-N3	-4.86	120.65	128.39
50	PC	501	GTP	C5-C4-N3	-4.86	120.66	128.39
52	SJ	502	GDP	C2-N3-C4	4.85	120.66	112.30
50	MO	501	GTP	C5-C4-N3	-4.85	120.67	128.39
50	SI	501	GTP	C5-C4-N3	-4.85	120.67	128.39
52	JH	502	GDP	C2-N3-C4	4.85	120.66	112.30
52	MD	502	GDP	C2-N3-C4	4.85	120.66	112.30
52	GD	502	GDP	C2-N3-C4	4.85	120.65	112.30
50	HG	501	GTP	C5-C4-N3	-4.85	120.67	128.39
50	TM	501	GTP	C5-C4-N3	-4.85	120.67	128.39
50	IK	501	GTP	C2-N3-C4	4.84	120.63	112.30
52	LL	502	GDP	C2-N3-C4	4.84	120.63	112.30
52	GJ	502	GDP	C2-N3-C4	4.84	120.63	112.30
52	ML	502	GDP	C2-N3-C4	4.83	120.62	112.30
50	NG	501	GTP	C5-C4-N3	-4.83	120.70	128.39
50	QG	501	GTP	C2-N3-C4	4.83	120.62	112.30
50	KE	501	GTP	C5-C4-N3	-4.82	120.72	128.39
50	MI	501	GTP	C5-C4-N3	-4.81	120.73	128.39
50	TK	501	GTP	C5-C4-N3	-4.81	120.74	128.39
52	GB	502	GDP	C2-N3-C4	4.81	120.58	112.30
50	IG	501	GTP	C2-N3-C4	4.80	120.56	112.30
50	JM	501	GTP	C2-N3-C4	4.78	120.53	112.30
50	BC	501	GTP	C2-N3-C4	4.78	120.53	112.30
52	ON	502	GDP	C2-N3-C4	4.78	120.53	112.30
50	QC	501	GTP	C2-N3-C4	4.78	120.53	112.30
52	LH	502	GDP	C2-N3-C4	4.78	120.53	112.30
50	JC	501	GTP	C2-N3-C4	4.78	120.53	112.30
50	VK	501	GTP	C2-N3-C4	4.77	120.51	112.30
52	FJ	502	GDP	N9-C4-N3	4.76	135.47	125.95
50	DG	501	GTP	C2-N3-C4	4.75	120.49	112.30
50	JK	501	GTP	C2-N3-C4	4.75	120.48	112.30
50	EC	501	GTP	C2-N3-C4	4.75	120.48	112.30
50	CG	501	GTP	C2-N3-C4	4.75	120.47	112.30
50	BE	501	GTP	C2-N3-C4	4.74	120.47	112.30
50	BG	501	GTP	C2-N3-C4	4.74	120.46	112.30
50	IO	501	GTP	C2-N3-C4	4.74	120.46	112.30
50	DK	501	GTP	C2-N3-C4	4.74	120.46	112.30
50	NM	501	GTP	C5-C4-N3	-4.73	120.86	128.39
50	RK	501	GTP	C2-N3-C4	4.73	120.44	112.30
50	JE	501	GTP	C2-N3-C4	4.72	120.43	112.30
50	CK	501	GTP	C2-N3-C4	4.72	120.43	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	JO	501	GTP	C2-N3-C4	4.72	120.42	112.30
50	EK	501	GTP	C2-N3-C4	4.71	120.42	112.30
50	MM	501	GTP	C5-C4-N3	-4.71	120.89	128.39
50	QI	501	GTP	C2-N3-C4	4.71	120.42	112.30
50	RE	501	GTP	C2-N3-C4	4.71	120.42	112.30
50	DC	501	GTP	C2-N3-C4	4.71	120.41	112.30
50	JI	501	GTP	C2-N3-C4	4.71	120.41	112.30
50	FC	501	GTP	C2-N3-C4	4.71	120.41	112.30
50	AK	501	GTP	C2-N3-C4	4.71	120.41	112.30
50	EA	501	GTP	C2-N3-C4	4.71	120.41	112.30
50	BI	501	GTP	C2-N3-C4	4.71	120.40	112.30
50	BK	501	GTP	C2-N3-C4	4.70	120.40	112.30
50	JG	501	GTP	C2-N3-C4	4.70	120.40	112.30
50	RM	501	GTP	C2-N3-C4	4.70	120.40	112.30
50	VE	501	GTP	C2-N3-C4	4.70	120.40	112.30
50	QK	501	GTP	C2-N3-C4	4.70	120.39	112.30
50	WI	501	GTP	C2-N3-C4	4.70	120.39	112.30
50	BO	501	GTP	C2-N3-C4	4.69	120.38	112.30
50	AE	501	GTP	C2-N3-C4	4.69	120.38	112.30
50	WG	501	GTP	C2-N3-C4	4.69	120.38	112.30
50	RG	501	GTP	C2-N3-C4	4.69	120.37	112.30
50	PI	501	GTP	C2-N3-C4	4.69	120.37	112.30
50	RO	501	GTP	C2-N3-C4	4.69	120.37	112.30
50	EG	501	GTP	C2-N3-C4	4.68	120.37	112.30
50	HO	501	GTP	C2-N3-C4	4.68	120.37	112.30
50	PK	501	GTP	C2-N3-C4	4.68	120.36	112.30
50	AG	501	GTP	C2-N3-C4	4.68	120.36	112.30
50	RI	501	GTP	C2-N3-C4	4.68	120.36	112.30
50	NI	501	GTP	C2-N3-C4	4.68	120.36	112.30
50	VA	501	GTP	C2-N3-C4	4.68	120.36	112.30
52	RL	502	GDP	N9-C4-N3	4.68	135.31	125.95
50	AI	501	GTP	C2-N3-C4	4.68	120.35	112.30
50	WE	501	GTP	C2-N3-C4	4.68	120.35	112.30
50	BM	501	GTP	C2-N3-C4	4.67	120.35	112.30
50	EI	501	GTP	C2-N3-C4	4.67	120.35	112.30
50	CO	501	GTP	C2-N3-C4	4.67	120.35	112.30
52	RD	502	GDP	N9-C4-N3	4.67	135.29	125.95
50	IM	501	GTP	C2-N3-C4	4.67	120.34	112.30
50	OC	501	GTP	C2-N3-C4	4.67	120.34	112.30
50	UA	501	GTP	C2-N3-C4	4.67	120.34	112.30
50	AC	501	GTP	C2-N3-C4	4.67	120.34	112.30
50	VC	501	GTP	C2-N3-C4	4.67	120.34	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	ME	501	GTP	C2-N3-C4	4.67	120.33	112.30
50	JQ	501	GTP	C2-N3-C4	4.66	120.33	112.30
50	HE	501	GTP	C2-N3-C4	4.66	120.33	112.30
50	VM	501	GTP	C2-N3-C4	4.66	120.33	112.30
50	LC	501	GTP	C2-N3-C4	4.66	120.33	112.30
50	RC	501	GTP	C2-N3-C4	4.66	120.33	112.30
50	CQ	501	GTP	C2-N3-C4	4.66	120.33	112.30
50	AO	501	GTP	C2-N3-C4	4.66	120.33	112.30
50	QE	501	GTP	C2-N3-C4	4.66	120.32	112.30
50	CE	501	GTP	C2-N3-C4	4.66	120.32	112.30
50	DI	501	GTP	C2-N3-C4	4.66	120.32	112.30
50	OA	501	GTP	C2-N3-C4	4.65	120.32	112.30
50	OK	501	GTP	C2-N3-C4	4.65	120.32	112.30
52	OJ	502	GDP	N9-C4-N3	4.65	135.26	125.95
50	CC	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	KG	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	AA	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	KA	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	DM	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	KK	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	AM	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	FA	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	NO	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	UC	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	QM	501	GTP	C2-N3-C4	4.65	120.31	112.30
50	EE	501	GTP	C2-N3-C4	4.65	120.30	112.30
50	HM	501	GTP	C2-N3-C4	4.65	120.30	112.30
50	DE	501	GTP	C2-N3-C4	4.65	120.30	112.30
50	CM	501	GTP	C2-N3-C4	4.64	120.30	112.30
50	GK	501	GTP	C5-C4-N3	-4.64	121.00	128.39
50	OG	501	GTP	C2-N3-C4	4.64	120.30	112.30
52	QB	502	GDP	N9-C4-N3	4.64	135.23	125.95
50	FG	501	GTP	C2-N3-C4	4.64	120.29	112.30
52	RH	502	GDP	N9-C4-N3	4.64	135.23	125.95
50	UG	501	GTP	C2-N3-C4	4.64	120.29	112.30
50	VO	501	GTP	C2-N3-C4	4.64	120.29	112.30
50	HC	501	GTP	C2-N3-C4	4.63	120.28	112.30
50	TE	501	GTP	C2-N3-C4	4.63	120.28	112.30
52	QP	502	GDP	N9-C4-N3	4.63	135.21	125.95
50	WK	501	GTP	C2-N3-C4	4.63	120.28	112.30
50	EM	501	GTP	C2-N3-C4	4.63	120.27	112.30
50	WC	501	GTP	C2-N3-C4	4.63	120.27	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	WO	501	GTP	C2-N3-C4	4.63	120.27	112.30
50	UM	501	GTP	C2-N3-C4	4.63	120.27	112.30
50	OI	501	GTP	C2-N3-C4	4.63	120.27	112.30
50	DO	501	GTP	C2-N3-C4	4.63	120.27	112.30
50	DQ	501	GTP	C2-N3-C4	4.63	120.27	112.30
50	KC	501	GTP	C2-N3-C4	4.62	120.26	112.30
50	HI	501	GTP	C2-N3-C4	4.62	120.26	112.30
50	KE	501	GTP	C2-N3-C4	4.62	120.26	112.30
50	UE	501	GTP	C2-N3-C4	4.62	120.26	112.30
50	LI	501	GTP	C2-N3-C4	4.62	120.26	112.30
52	SF	502	GDP	N9-C4-N3	4.62	135.19	125.95
50	IA	501	GTP	C2-N3-C4	4.62	120.25	112.30
50	WM	501	GTP	C2-N3-C4	4.62	120.25	112.30
52	KJ	502	GDP	N9-C4-N3	4.62	135.18	125.95
50	OE	501	GTP	C2-N3-C4	4.61	120.25	112.30
50	VG	501	GTP	C2-N3-C4	4.61	120.24	112.30
52	RF	502	GDP	N9-C4-N3	4.61	135.17	125.95
50	FE	501	GTP	C2-N3-C4	4.61	120.24	112.30
50	GA	501	GTP	C2-N3-C4	4.61	120.24	112.30
50	TI	501	GTP	C2-N3-C4	4.61	120.24	112.30
52	SB	502	GDP	N9-C4-N3	4.61	135.16	125.95
52	NP	502	GDP	N9-C4-N3	4.61	135.16	125.95
50	LE	501	GTP	C2-N3-C4	4.60	120.23	112.30
50	TC	501	GTP	C2-N3-C4	4.60	120.23	112.30
50	LO	501	GTP	C2-N3-C4	4.60	120.23	112.30
52	FD	502	GDP	N9-C4-N3	4.60	135.15	125.95
50	QO	501	GTP	C2-N3-C4	4.60	120.22	112.30
52	RP	502	GDP	N9-C4-N3	4.60	135.15	125.95
50	UK	501	GTP	C2-N3-C4	4.60	120.22	112.30
50	OM	501	GTP	C2-N3-C4	4.60	120.22	112.30
50	PO	501	GTP	C2-N3-C4	4.60	120.22	112.30
50	GO	501	GTP	C2-N3-C4	4.59	120.21	112.30
50	TM	501	GTP	C2-N3-C4	4.59	120.21	112.30
50	GC	501	GTP	C2-N3-C4	4.59	120.21	112.30
50	TG	501	GTP	C2-N3-C4	4.59	120.20	112.30
50	HG	501	GTP	C2-N3-C4	4.59	120.20	112.30
50	NC	501	GTP	C2-N3-C4	4.59	120.20	112.30
50	TA	501	GTP	C2-N3-C4	4.59	120.20	112.30
50	MK	501	GTP	C2-N3-C4	4.59	120.20	112.30
50	NA	501	GTP	C2-N3-C4	4.59	120.20	112.30
52	IJ	502	GDP	N9-C4-N3	4.59	135.12	125.95
52	SH	502	GDP	N9-C4-N3	4.58	135.12	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	IC	501	GTP	C2-N3-C4	4.58	120.19	112.30
52	JH	502	GDP	N9-C4-N3	4.58	135.12	125.95
50	KM	501	GTP	C2-N3-C4	4.58	120.19	112.30
50	EO	501	GTP	C2-N3-C4	4.58	120.19	112.30
52	KB	502	GDP	N9-C4-N3	4.58	135.11	125.95
50	UI	501	GTP	C2-N3-C4	4.58	120.19	112.30
50	WA	501	GTP	C2-N3-C4	4.58	120.18	112.30
50	NG	501	GTP	C2-N3-C4	4.58	120.18	112.30
50	LA	501	GTP	C2-N3-C4	4.57	120.18	112.30
50	NK	501	GTP	C2-N3-C4	4.57	120.18	112.30
50	OO	501	GTP	C2-N3-C4	4.57	120.18	112.30
50	SA	501	GTP	C2-N3-C4	4.57	120.18	112.30
50	FM	501	GTP	C2-N3-C4	4.57	120.18	112.30
50	PE	501	GTP	C2-N3-C4	4.57	120.17	112.30
52	AD	502	GDP	N9-C4-N3	4.57	135.09	125.95
50	SM	501	GTP	C2-N3-C4	4.57	120.17	112.30
50	KO	501	GTP	C2-N3-C4	4.57	120.17	112.30
50	HK	501	GTP	C2-N3-C4	4.57	120.17	112.30
52	UF	502	GDP	N9-C4-N3	4.56	135.08	125.95
50	VI	501	GTP	C2-N3-C4	4.56	120.16	112.30
52	OP	502	GDP	N9-C4-N3	4.56	135.07	125.95
52	RJ	502	GDP	N9-C4-N3	4.56	135.07	125.95
52	KP	502	GDP	N9-C4-N3	4.56	135.07	125.95
50	GG	501	GTP	C2-N3-C4	4.56	120.15	112.30
50	NE	501	GTP	C2-N3-C4	4.56	120.15	112.30
50	LG	501	GTP	C2-N3-C4	4.56	120.15	112.30
50	UO	501	GTP	C2-N3-C4	4.55	120.14	112.30
52	DL	502	GDP	N9-C4-N3	4.55	135.06	125.95
52	CN	502	GDP	N9-C4-N3	4.55	135.05	125.95
50	PM	501	GTP	C2-N3-C4	4.55	120.13	112.30
52	QD	502	GDP	N9-C4-N3	4.54	135.04	125.95
52	QN	502	GDP	N9-C4-N3	4.54	135.04	125.95
50	CI	501	GTP	C2-N3-C4	4.54	120.12	112.30
50	HA	501	GTP	C2-N3-C4	4.54	120.12	112.30
52	IL	502	GDP	N9-C4-N3	4.54	135.03	125.95
52	QL	502	GDP	N9-C4-N3	4.54	135.03	125.95
52	SD	502	GDP	N9-C4-N3	4.54	135.03	125.95
50	PG	501	GTP	C2-N3-C4	4.54	120.12	112.30
50	TK	501	GTP	C2-N3-C4	4.54	120.12	112.30
52	SN	502	GDP	N9-C4-N3	4.54	135.02	125.95
52	FB	502	GDP	N9-C4-N3	4.53	135.01	125.95
52	AL	502	GDP	N9-C4-N3	4.53	135.01	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	LK	501	GTP	C2-N3-C4	4.53	120.10	112.30
50	FO	501	GTP	C2-N3-C4	4.53	120.09	112.30
52	GF	502	GDP	N9-C4-N3	4.53	135.00	125.95
50	FI	501	GTP	C2-N3-C4	4.52	120.09	112.30
50	SK	501	GTP	C2-N3-C4	4.52	120.09	112.30
52	WP	502	GDP	N9-C4-N3	4.52	135.00	125.95
52	KF	502	GDP	N9-C4-N3	4.52	134.99	125.95
50	PC	501	GTP	C2-N3-C4	4.52	120.08	112.30
50	KI	501	GTP	C2-N3-C4	4.52	120.08	112.30
52	HP	502	GDP	N9-C4-N3	4.51	134.98	125.95
52	QF	502	GDP	N9-C4-N3	4.51	134.98	125.95
52	LD	502	GDP	N9-C4-N3	4.51	134.97	125.95
52	SL	502	GDP	N9-C4-N3	4.51	134.97	125.95
50	SE	501	GTP	C2-N3-C4	4.51	120.06	112.30
52	IP	502	GDP	N9-C4-N3	4.51	134.97	125.95
52	UN	502	GDP	N9-C4-N3	4.51	134.96	125.95
52	NL	502	GDP	N9-C4-N3	4.50	134.96	125.95
52	HN	502	GDP	N9-C4-N3	4.50	134.95	125.95
50	GE	501	GTP	C2-N3-C4	4.50	120.05	112.30
52	CB	502	GDP	N9-C4-N3	4.50	134.95	125.95
52	FN	502	GDP	N9-C4-N3	4.50	134.95	125.95
52	JL	502	GDP	N9-C4-N3	4.50	134.94	125.95
52	KH	502	GDP	N9-C4-N3	4.49	134.94	125.95
52	BJ	502	GDP	N9-C4-N3	4.49	134.94	125.95
52	NF	502	GDP	N9-C4-N3	4.49	134.93	125.95
50	SI	501	GTP	C2-N3-C4	4.49	120.03	112.30
52	CJ	502	GDP	N9-C4-N3	4.49	134.93	125.95
52	WL	502	GDP	N9-C4-N3	4.49	134.92	125.95
52	RN	502	GDP	N9-C4-N3	4.48	134.92	125.95
52	FH	502	GDP	N9-C4-N3	4.48	134.91	125.95
52	FL	502	GDP	N9-C4-N3	4.48	134.91	125.95
50	FK	501	GTP	C2-N3-C4	4.48	120.01	112.30
50	SC	501	GTP	C2-N3-C4	4.48	120.01	112.30
52	DH	502	GDP	N9-C4-N3	4.48	134.91	125.95
50	NM	501	GTP	C2-N3-C4	4.47	120.01	112.30
52	DD	502	GDP	N9-C4-N3	4.47	134.90	125.95
50	MM	501	GTP	C2-N3-C4	4.47	120.00	112.30
50	GI	501	GTP	C2-N3-C4	4.47	120.00	112.30
50	GM	501	GTP	C2-N3-C4	4.47	120.00	112.30
52	WD	502	GDP	N9-C4-N3	4.47	134.89	125.95
52	AN	502	GDP	N9-C4-N3	4.47	134.89	125.95
52	NB	502	GDP	N9-C4-N3	4.47	134.89	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	QH	502	GDP	N9-C4-N3	4.47	134.89	125.95
50	PG	501	GTP	C5-C4-N3	-4.47	121.28	128.39
52	GH	502	GDP	N9-C4-N3	4.46	134.88	125.95
52	GL	502	GDP	N9-C4-N3	4.46	134.88	125.95
52	HJ	502	GDP	N9-C4-N3	4.46	134.88	125.95
50	MA	501	GTP	C2-N3-C4	4.46	119.98	112.30
52	OF	502	GDP	N9-C4-N3	4.46	134.87	125.95
52	UB	502	GDP	N9-C4-N3	4.46	134.87	125.95
52	WB	502	GDP	N9-C4-N3	4.46	134.87	125.95
50	LM	501	GTP	C2-N3-C4	4.46	119.98	112.30
52	UH	502	GDP	N9-C4-N3	4.46	134.86	125.95
52	UL	502	GDP	N9-C4-N3	4.45	134.86	125.95
50	MG	501	GTP	C2-N3-C4	4.45	119.97	112.30
52	EH	502	GDP	N9-C4-N3	4.45	134.85	125.95
52	EL	502	GDP	N9-C4-N3	4.45	134.84	125.95
52	IH	502	GDP	N9-C4-N3	4.45	134.84	125.95
52	VH	502	GDP	N9-C4-N3	4.45	134.84	125.95
50	QO	501	GTP	C5-C4-N3	-4.45	121.31	128.39
52	TB	502	GDP	N9-C4-N3	4.44	134.84	125.95
50	SG	501	GTP	C2-N3-C4	4.44	119.95	112.30
52	TF	502	GDP	N9-C4-N3	4.44	134.83	125.95
52	DN	502	GDP	N9-C4-N3	4.44	134.83	125.95
52	VD	502	GDP	N9-C4-N3	4.44	134.83	125.95
52	CF	502	GDP	N9-C4-N3	4.44	134.82	125.95
52	LB	502	GDP	N9-C4-N3	4.44	134.82	125.95
52	MN	502	GDP	N9-C4-N3	4.44	134.82	125.95
52	UJ	502	GDP	N9-C4-N3	4.44	134.82	125.95
52	TL	502	GDP	N9-C4-N3	4.44	134.82	125.95
52	ED	502	GDP	N9-C4-N3	4.43	134.82	125.95
52	VJ	502	GDP	N9-C4-N3	4.43	134.81	125.95
52	IN	502	GDP	N9-C4-N3	4.43	134.81	125.95
52	VL	502	GDP	N9-C4-N3	4.43	134.81	125.95
52	AJ	502	GDP	N9-C4-N3	4.42	134.80	125.95
52	VF	502	GDP	N9-C4-N3	4.42	134.79	125.95
50	MO	501	GTP	C2-N3-C4	4.42	119.91	112.30
52	SJ	502	GDP	N9-C4-N3	4.42	134.79	125.95
52	DP	502	GDP	N9-C4-N3	4.42	134.78	125.95
50	IE	501	GTP	C2-N3-C4	4.41	119.90	112.30
52	OB	502	GDP	N9-C4-N3	4.41	134.78	125.95
52	QJ	502	GDP	N9-C4-N3	4.41	134.78	125.95
50	GK	501	GTP	C2-N3-C4	4.41	119.90	112.30
52	JB	502	GDP	N9-C4-N3	4.41	134.77	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	NN	502	GDP	N9-C4-N3	4.41	134.77	125.95
50	MI	501	GTP	C2-N3-C4	4.41	119.90	112.30
52	BP	502	GDP	N9-C4-N3	4.41	134.77	125.95
52	TD	502	GDP	N9-C4-N3	4.41	134.77	125.95
52	ND	502	GDP	N9-C4-N3	4.41	134.76	125.95
52	MF	502	GDP	N9-C4-N3	4.40	134.76	125.95
52	AB	502	GDP	N9-C4-N3	4.40	134.76	125.95
52	EJ	502	GDP	N9-C4-N3	4.40	134.75	125.95
52	PB	502	GDP	N9-C4-N3	4.40	134.75	125.95
52	DB	502	GDP	N9-C4-N3	4.40	134.75	125.95
52	PF	502	GDP	N9-C4-N3	4.40	134.75	125.95
52	NJ	502	GDP	N9-C4-N3	4.40	134.75	125.95
52	KN	502	GDP	N9-C4-N3	4.40	134.74	125.95
52	OD	502	GDP	N9-C4-N3	4.39	134.74	125.95
52	DJ	502	GDP	N9-C4-N3	4.39	134.74	125.95
52	OH	502	GDP	N9-C4-N3	4.39	134.74	125.95
52	WN	502	GDP	N9-C4-N3	4.39	134.73	125.95
52	PD	502	GDP	N9-C4-N3	4.39	134.73	125.95
52	VN	502	GDP	N9-C4-N3	4.39	134.72	125.95
52	VB	502	GDP	N9-C4-N3	4.38	134.72	125.95
52	GJ	502	GDP	N9-C4-N3	4.38	134.71	125.95
52	OL	502	GDP	N9-C4-N3	4.38	134.71	125.95
52	UD	502	GDP	N9-C4-N3	4.38	134.71	125.95
52	JN	502	GDP	N9-C4-N3	4.38	134.71	125.95
52	AH	502	GDP	N9-C4-N3	4.38	134.71	125.95
52	PP	502	GDP	N9-C4-N3	4.38	134.71	125.95
52	EN	502	GDP	N9-C4-N3	4.38	134.70	125.95
52	BD	502	GDP	N9-C4-N3	4.37	134.70	125.95
52	AP	502	GDP	N9-C4-N3	4.37	134.70	125.95
52	BN	502	GDP	N9-C4-N3	4.37	134.69	125.95
52	TN	502	GDP	N9-C4-N3	4.37	134.69	125.95
52	LJ	502	GDP	N9-C4-N3	4.36	134.68	125.95
52	CD	502	GDP	N9-C4-N3	4.36	134.68	125.95
52	MP	502	GDP	N9-C4-N3	4.36	134.67	125.95
52	GN	502	GDP	N9-C4-N3	4.36	134.67	125.95
52	BB	502	GDP	N9-C4-N3	4.36	134.67	125.95
52	BF	502	GDP	N9-C4-N3	4.36	134.66	125.95
52	BH	502	GDP	N9-C4-N3	4.35	134.66	125.95
52	IB	502	GDP	N9-C4-N3	4.35	134.66	125.95
52	KL	502	GDP	N9-C4-N3	4.35	134.65	125.95
52	PJ	502	GDP	N9-C4-N3	4.35	134.65	125.95
52	HB	502	GDP	N9-C4-N3	4.35	134.65	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	DF	502	GDP	N9-C4-N3	4.35	134.65	125.95
52	WF	502	GDP	N9-C4-N3	4.35	134.64	125.95
52	PH	502	GDP	N9-C4-N3	4.34	134.64	125.95
52	WH	502	GDP	N9-C4-N3	4.34	134.64	125.95
52	JD	502	GDP	N9-C4-N3	4.34	134.62	125.95
52	KD	502	GDP	N9-C4-N3	4.34	134.62	125.95
52	MD	502	GDP	N9-C4-N3	4.33	134.62	125.95
52	LP	502	GDP	N9-C4-N3	4.33	134.62	125.95
52	WJ	502	GDP	N9-C4-N3	4.33	134.62	125.95
52	CH	502	GDP	N9-C4-N3	4.32	134.60	125.95
52	FF	502	GDP	N9-C4-N3	4.32	134.59	125.95
52	HD	502	GDP	N9-C4-N3	4.32	134.59	125.95
52	AF	502	GDP	N9-C4-N3	4.31	134.58	125.95
52	CP	502	GDP	N9-C4-N3	4.31	134.57	125.95
52	ID	502	GDP	N9-C4-N3	4.31	134.57	125.95
52	LN	502	GDP	N9-C4-N3	4.31	134.57	125.95
52	HL	502	GDP	N9-C4-N3	4.31	134.57	125.95
52	EF	502	GDP	N9-C4-N3	4.30	134.56	125.95
52	TJ	502	GDP	N9-C4-N3	4.30	134.55	125.95
52	IF	502	GDP	N9-C4-N3	4.30	134.54	125.95
52	HF	502	GDP	N9-C4-N3	4.29	134.53	125.95
52	PL	502	GDP	N9-C4-N3	4.27	134.50	125.95
52	CL	502	GDP	N9-C4-N3	4.27	134.49	125.95
52	TH	502	GDP	N9-C4-N3	4.27	134.49	125.95
52	ON	502	GDP	N9-C4-N3	4.27	134.49	125.95
50	MC	501	GTP	C2-N3-C4	4.27	119.65	112.30
50	II	501	GTP	C2-N3-C4	4.26	119.64	112.30
52	LF	502	GDP	N9-C4-N3	4.26	134.46	125.95
52	JF	502	GDP	C6-C5-N7	4.25	138.03	130.29
52	EB	502	GDP	N9-C4-N3	4.25	134.44	125.95
52	JP	502	GDP	N9-C4-N3	4.24	134.44	125.95
52	LL	502	GDP	N9-C4-N3	4.24	134.43	125.95
52	NH	502	GDP	N9-C4-N3	4.23	134.42	125.95
52	MJ	502	GDP	N9-C4-N3	4.23	134.42	125.95
52	ML	502	GDP	N9-C4-N3	4.23	134.41	125.95
52	BL	502	GDP	N9-C4-N3	4.19	134.34	125.95
52	MH	502	GDP	N9-C4-N3	4.18	134.31	125.95
52	GB	502	GDP	N9-C4-N3	4.15	134.26	125.95
52	PN	502	GDP	N9-C4-N3	4.14	134.22	125.95
52	HH	502	GDP	N9-C4-N3	4.13	134.20	125.95
52	LH	502	GDP	N9-C4-N3	4.08	134.11	125.95
50	VI	501	GTP	N9-C4-N3	3.99	133.94	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	JJ	502	GDP	N9-C4-N3	3.81	133.58	125.95
52	JJ	502	GDP	C6-C5-N7	3.76	137.13	130.29
52	MB	502	GDP	N9-C4-N3	3.73	133.42	125.95
52	MB	502	GDP	C6-C5-N7	3.73	137.08	130.29
50	CK	501	GTP	N9-C4-N3	3.68	133.32	125.95
50	IE	501	GTP	N9-C4-N3	3.64	133.24	125.95
50	QG	501	GTP	N9-C4-N3	3.63	133.22	125.95
52	PN	502	GDP	C6-C5-N7	3.62	136.88	130.29
50	AE	501	GTP	N9-C4-N3	3.58	133.11	125.95
50	LE	501	GTP	N9-C4-N3	3.56	133.07	125.95
52	JF	502	GDP	N9-C4-N3	3.54	133.03	125.95
50	FO	501	GTP	N9-C4-N3	3.53	133.01	125.95
50	SC	501	GTP	N9-C4-N3	3.52	132.99	125.95
52	GB	502	GDP	C6-C5-N7	3.51	136.68	130.29
50	CM	501	GTP	N9-C4-N3	3.51	132.97	125.95
52	CL	502	GDP	C6-C5-N7	3.49	136.65	130.29
52	JP	502	GDP	C6-C5-N7	3.49	136.65	130.29
52	WJ	502	GDP	C6-C5-N7	3.49	136.65	130.29
50	RM	501	GTP	N9-C4-N3	3.49	132.94	125.95
52	PL	502	GDP	C6-C5-N7	3.49	136.64	130.29
50	CI	501	GTP	N9-C4-N3	3.49	132.92	125.95
50	DM	501	GTP	N9-C4-N3	3.48	132.91	125.95
52	BL	502	GDP	C6-C5-N7	3.48	136.62	130.29
52	PH	502	GDP	C6-C5-N7	3.48	136.62	130.29
52	TH	502	GDP	C6-C5-N7	3.47	136.61	130.29
50	DK	501	GTP	N9-C4-N3	3.47	132.89	125.95
50	LG	501	GTP	N9-C4-N3	3.47	132.88	125.95
52	EF	502	GDP	C6-C5-N7	3.46	136.59	130.29
52	EB	502	GDP	C6-C5-N7	3.46	136.59	130.29
52	IF	502	GDP	C6-C5-N7	3.46	136.58	130.29
50	HK	501	GTP	N9-C4-N3	3.46	132.87	125.95
52	DJ	502	GDP	C6-C5-N7	3.45	136.58	130.29
50	VK	501	GTP	N9-C4-N3	3.45	132.86	125.95
52	LH	502	GDP	C6-C5-N7	3.45	136.57	130.29
52	MH	502	GDP	C6-C5-N7	3.45	136.57	130.29
50	WO	501	GTP	N9-C4-N3	3.44	132.83	125.95
52	PJ	502	GDP	C6-C5-N7	3.44	136.54	130.29
52	HH	502	GDP	C6-C5-N7	3.44	136.54	130.29
52	HL	502	GDP	C6-C5-N7	3.44	136.54	130.29
50	CQ	501	GTP	N9-C4-N3	3.44	132.82	125.95
50	UO	501	GTP	N9-C4-N3	3.43	132.82	125.95
52	JN	502	GDP	C6-C5-N7	3.43	136.53	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	TJ	502	GDP	C6-C5-N7	3.43	136.53	130.29
50	WE	501	GTP	N9-C4-N3	3.43	132.80	125.95
50	JK	501	GTP	N9-C4-N3	3.42	132.80	125.95
52	PP	502	GDP	C6-C5-N7	3.42	136.52	130.29
52	OD	502	GDP	C6-C5-N7	3.42	136.52	130.29
52	JD	502	GDP	C6-C5-N7	3.42	136.51	130.29
50	VG	501	GTP	N9-C4-N3	3.42	132.79	125.95
52	KL	502	GDP	C6-C5-N7	3.42	136.51	130.29
52	WF	502	GDP	C6-C5-N7	3.41	136.50	130.29
52	JL	502	GDP	C6-C5-N7	3.41	136.50	130.29
52	PD	502	GDP	C6-C5-N7	3.41	136.50	130.29
52	CP	502	GDP	C6-C5-N7	3.41	136.49	130.29
50	EA	501	GTP	N9-C4-N3	3.41	132.77	125.95
52	DH	502	GDP	C6-C5-N7	3.41	136.49	130.29
52	WN	502	GDP	C6-C5-N7	3.41	136.49	130.29
52	ML	502	GDP	C6-C5-N7	3.40	136.48	130.29
50	RK	501	GTP	N9-C4-N3	3.40	132.76	125.95
52	CH	502	GDP	C6-C5-N7	3.40	136.48	130.29
50	IK	501	GTP	N9-C4-N3	3.40	132.75	125.95
50	LA	501	GTP	N9-C4-N3	3.40	132.75	125.95
52	IB	502	GDP	C6-C5-N7	3.40	136.47	130.29
52	OB	502	GDP	C6-C5-N7	3.40	136.47	130.29
52	OL	502	GDP	C6-C5-N7	3.40	136.47	130.29
50	BO	501	GTP	N9-C4-N3	3.40	132.74	125.95
50	EE	501	GTP	N9-C4-N3	3.40	132.74	125.95
52	AP	502	GDP	C6-C5-N7	3.39	136.47	130.29
50	RI	501	GTP	N9-C4-N3	3.39	132.74	125.95
52	DF	502	GDP	C6-C5-N7	3.39	136.46	130.29
52	VN	502	GDP	C6-C5-N7	3.39	136.46	130.29
52	BB	502	GDP	C6-C5-N7	3.39	136.46	130.29
50	IG	501	GTP	N9-C4-N3	3.39	132.73	125.95
52	VD	502	GDP	C6-C5-N7	3.39	136.46	130.29
52	NH	502	GDP	C6-C5-N7	3.39	136.45	130.29
50	GM	501	GTP	N9-C4-N3	3.39	132.72	125.95
50	HA	501	GTP	N9-C4-N3	3.39	132.72	125.95
52	ID	502	GDP	C6-C5-N7	3.38	136.45	130.29
50	JO	501	GTP	N9-C4-N3	3.38	132.72	125.95
52	VB	502	GDP	C6-C5-N7	3.38	136.44	130.29
52	BP	502	GDP	C6-C5-N7	3.38	136.44	130.29
52	TN	502	GDP	C6-C5-N7	3.38	136.44	130.29
52	BF	502	GDP	C6-C5-N7	3.38	136.44	130.29
50	UK	501	GTP	N9-C4-N3	3.38	132.71	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BM	501	GTP	N9-C4-N3	3.38	132.71	125.95
52	UD	502	GDP	C6-C5-N7	3.38	136.43	130.29
50	JE	501	GTP	N9-C4-N3	3.37	132.70	125.95
52	BD	502	GDP	C6-C5-N7	3.37	136.43	130.29
52	LF	502	GDP	C6-C5-N7	3.37	136.43	130.29
50	UM	501	GTP	N9-C4-N3	3.37	132.70	125.95
52	ON	502	GDP	C6-C5-N7	3.37	136.42	130.29
50	HO	501	GTP	N9-C4-N3	3.37	132.69	125.95
50	IO	501	GTP	N9-C4-N3	3.37	132.69	125.95
50	EI	501	GTP	N9-C4-N3	3.37	132.69	125.95
52	QJ	502	GDP	C6-C5-N7	3.37	136.42	130.29
52	LP	502	GDP	C6-C5-N7	3.37	136.41	130.29
52	PF	502	GDP	C6-C5-N7	3.36	136.41	130.29
52	CD	502	GDP	C6-C5-N7	3.36	136.41	130.29
50	LC	501	GTP	N9-C4-N3	3.36	132.67	125.95
52	TB	502	GDP	C6-C5-N7	3.36	136.41	130.29
50	BE	501	GTP	N9-C4-N3	3.36	132.67	125.95
52	MJ	502	GDP	C6-C5-N7	3.36	136.40	130.29
52	UH	502	GDP	C6-C5-N7	3.36	136.40	130.29
52	UJ	502	GDP	C6-C5-N7	3.35	136.39	130.29
52	AH	502	GDP	C6-C5-N7	3.35	136.39	130.29
52	LN	502	GDP	C6-C5-N7	3.35	136.39	130.29
52	LL	502	GDP	C6-C5-N7	3.35	136.39	130.29
50	CG	501	GTP	N9-C4-N3	3.35	132.65	125.95
50	LM	501	GTP	N9-C4-N3	3.35	132.65	125.95
52	BH	502	GDP	C6-C5-N7	3.35	136.38	130.29
52	AF	502	GDP	C6-C5-N7	3.35	136.38	130.29
52	CF	502	GDP	C6-C5-N7	3.35	136.38	130.29
52	AB	502	GDP	C6-C5-N7	3.34	136.38	130.29
52	NL	502	GDP	C6-C5-N7	3.34	136.37	130.29
52	PB	502	GDP	C6-C5-N7	3.34	136.37	130.29
52	VJ	502	GDP	C6-C5-N7	3.34	136.37	130.29
50	VA	501	GTP	N9-C4-N3	3.34	132.63	125.95
50	PE	501	GTP	N9-C4-N3	3.34	132.63	125.95
52	HD	502	GDP	C6-C5-N7	3.34	136.36	130.29
52	WH	502	GDP	C6-C5-N7	3.34	136.36	130.29
50	DI	501	GTP	N9-C4-N3	3.34	132.62	125.95
50	BC	501	GTP	N9-C4-N3	3.33	132.62	125.95
52	OH	502	GDP	C6-C5-N7	3.33	136.36	130.29
50	JC	501	GTP	N9-C4-N3	3.33	132.62	125.95
52	TD	502	GDP	C6-C5-N7	3.33	136.35	130.29
50	RO	501	GTP	N9-C4-N3	3.33	132.61	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	HB	502	GDP	C6-C5-N7	3.33	136.35	130.29
52	KN	502	GDP	C6-C5-N7	3.33	136.35	130.29
50	ME	501	GTP	N9-C4-N3	3.33	132.61	125.95
52	TL	502	GDP	C6-C5-N7	3.33	136.34	130.29
52	JB	502	GDP	C6-C5-N7	3.33	136.34	130.29
52	VL	502	GDP	C6-C5-N7	3.33	136.34	130.29
52	MD	502	GDP	C6-C5-N7	3.33	136.34	130.29
52	EN	502	GDP	C6-C5-N7	3.32	136.34	130.29
52	FF	502	GDP	C6-C5-N7	3.32	136.34	130.29
52	DN	502	GDP	C6-C5-N7	3.32	136.34	130.29
52	MP	502	GDP	C6-C5-N7	3.32	136.33	130.29
52	EL	502	GDP	C6-C5-N7	3.32	136.33	130.29
50	CO	501	GTP	N9-C4-N3	3.32	132.59	125.95
52	AJ	502	GDP	C6-C5-N7	3.32	136.33	130.29
50	HC	501	GTP	N9-C4-N3	3.32	132.59	125.95
52	HN	502	GDP	C6-C5-N7	3.32	136.33	130.29
52	HF	502	GDP	C6-C5-N7	3.32	136.32	130.29
50	RG	501	GTP	N9-C4-N3	3.32	132.58	125.95
52	LB	502	GDP	C6-C5-N7	3.32	136.32	130.29
52	DB	502	GDP	C6-C5-N7	3.31	136.32	130.29
50	SG	501	GTP	N9-C4-N3	3.31	132.58	125.95
52	VH	502	GDP	C6-C5-N7	3.31	136.32	130.29
52	GF	502	GDP	C6-C5-N7	3.31	136.31	130.29
52	OF	502	GDP	C6-C5-N7	3.31	136.31	130.29
50	VM	501	GTP	N9-C4-N3	3.31	132.57	125.95
52	DP	502	GDP	C6-C5-N7	3.31	136.31	130.29
52	QH	502	GDP	C6-C5-N7	3.31	136.31	130.29
52	UB	502	GDP	C6-C5-N7	3.31	136.31	130.29
52	UL	502	GDP	C6-C5-N7	3.31	136.31	130.29
50	UE	501	GTP	N9-C4-N3	3.31	132.56	125.95
50	MA	501	GTP	N9-C4-N3	3.30	132.56	125.95
52	TF	502	GDP	C6-C5-N7	3.30	136.29	130.29
52	ND	502	GDP	C6-C5-N7	3.30	136.29	130.29
52	KD	502	GDP	C6-C5-N7	3.30	136.29	130.29
52	SD	502	GDP	C6-C5-N7	3.30	136.29	130.29
50	TC	501	GTP	N9-C4-N3	3.30	132.54	125.95
52	EJ	502	GDP	C6-C5-N7	3.30	136.29	130.29
52	GN	502	GDP	C6-C5-N7	3.29	136.28	130.29
52	CN	502	GDP	C6-C5-N7	3.29	136.28	130.29
50	VC	501	GTP	N9-C4-N3	3.29	132.54	125.95
52	NB	502	GDP	C6-C5-N7	3.29	136.28	130.29
52	WB	502	GDP	C6-C5-N7	3.29	136.28	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	NJ	502	GDP	C6-C5-N7	3.29	136.28	130.29
52	KH	502	GDP	C6-C5-N7	3.29	136.28	130.29
50	NO	501	GTP	N9-C4-N3	3.29	132.53	125.95
52	WD	502	GDP	C6-C5-N7	3.29	136.28	130.29
50	QE	501	GTP	N9-C4-N3	3.29	132.53	125.95
52	LJ	502	GDP	C6-C5-N7	3.29	136.27	130.29
50	VE	501	GTP	N9-C4-N3	3.29	132.52	125.95
52	MF	502	GDP	C6-C5-N7	3.28	136.27	130.29
52	ED	502	GDP	C6-C5-N7	3.28	136.27	130.29
52	GJ	502	GDP	C6-C5-N7	3.28	136.26	130.29
50	AE	501	GTP	C2-N1-C6	-3.28	119.16	125.11
52	IL	502	GDP	C6-C5-N7	3.28	136.26	130.29
50	FG	501	GTP	N9-C4-N3	3.28	132.51	125.95
52	GL	502	GDP	C6-C5-N7	3.28	136.26	130.29
50	AG	501	GTP	N9-C4-N3	3.28	132.51	125.95
52	NN	502	GDP	C6-C5-N7	3.28	136.25	130.29
52	DL	502	GDP	C6-C5-N7	3.28	136.25	130.29
52	UF	502	GDP	C6-C5-N7	3.28	136.25	130.29
50	AO	501	GTP	N9-C4-N3	3.27	132.50	125.95
52	CB	502	GDP	C6-C5-N7	3.27	136.25	130.29
52	IH	502	GDP	C6-C5-N7	3.27	136.25	130.29
50	EM	501	GTP	N9-C4-N3	3.27	132.50	125.95
52	CJ	502	GDP	C6-C5-N7	3.27	136.25	130.29
52	UN	502	GDP	C6-C5-N7	3.27	136.24	130.29
50	WI	501	GTP	N9-C4-N3	3.27	132.49	125.95
52	DD	502	GDP	C6-C5-N7	3.27	136.24	130.29
50	GC	501	GTP	N9-C4-N3	3.27	132.49	125.95
50	BI	501	GTP	N9-C4-N3	3.27	132.49	125.95
52	VF	502	GDP	C6-C5-N7	3.27	136.23	130.29
50	UA	501	GTP	N9-C4-N3	3.27	132.48	125.95
52	FL	502	GDP	C6-C5-N7	3.27	136.23	130.29
52	EH	502	GDP	C6-C5-N7	3.26	136.23	130.29
50	CC	501	GTP	N9-C4-N3	3.26	132.47	125.95
52	MN	502	GDP	C6-C5-N7	3.26	136.22	130.29
50	EK	501	GTP	N9-C4-N3	3.26	132.47	125.95
50	WM	501	GTP	N9-C4-N3	3.26	132.47	125.95
52	AN	502	GDP	C6-C5-N7	3.26	136.22	130.29
52	HP	502	GDP	C6-C5-N7	3.26	136.22	130.29
50	IC	501	GTP	N9-C4-N3	3.26	132.47	125.95
50	VO	501	GTP	N9-C4-N3	3.26	132.47	125.95
50	KK	501	GTP	N9-C4-N3	3.26	132.47	125.95
50	AC	501	GTP	N9-C4-N3	3.25	132.46	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	GO	501	GTP	N9-C4-N3	3.25	132.45	125.95
50	UC	501	GTP	N9-C4-N3	3.25	132.45	125.95
52	QF	502	GDP	C6-C5-N7	3.25	136.20	130.29
50	QM	501	GTP	N9-C4-N3	3.25	132.45	125.95
52	OJ	502	GDP	C6-C5-N7	3.25	136.20	130.29
50	OA	501	GTP	N9-C4-N3	3.25	132.44	125.95
52	WL	502	GDP	C6-C5-N7	3.24	136.19	130.29
52	RN	502	GDP	C6-C5-N7	3.24	136.19	130.29
50	FC	501	GTP	N9-C4-N3	3.24	132.43	125.95
52	IN	502	GDP	C6-C5-N7	3.24	136.18	130.29
50	WA	501	GTP	N9-C4-N3	3.24	132.43	125.95
50	SK	501	GTP	N9-C4-N3	3.24	132.43	125.95
52	HJ	502	GDP	C6-C5-N7	3.24	136.18	130.29
52	BN	502	GDP	C6-C5-N7	3.23	136.18	130.29
52	FB	502	GDP	C6-C5-N7	3.23	136.18	130.29
50	NC	501	GTP	N9-C4-N3	3.23	132.42	125.95
50	TA	501	GTP	N9-C4-N3	3.23	132.42	125.95
50	LI	501	GTP	N9-C4-N3	3.23	132.42	125.95
50	EG	501	GTP	N9-C4-N3	3.23	132.42	125.95
50	DG	501	GTP	N9-C4-N3	3.23	132.41	125.95
50	MG	501	GTP	N9-C4-N3	3.23	132.41	125.95
50	DQ	501	GTP	N9-C4-N3	3.23	132.41	125.95
50	IA	501	GTP	N9-C4-N3	3.23	132.41	125.95
50	UI	501	GTP	N9-C4-N3	3.23	132.41	125.95
52	SN	502	GDP	C6-C5-N7	3.23	136.16	130.29
50	JM	501	GTP	N9-C4-N3	3.22	132.40	125.95
50	NG	501	GTP	N9-C4-N3	3.22	132.40	125.95
50	RE	501	GTP	N9-C4-N3	3.22	132.40	125.95
50	HI	501	GTP	N9-C4-N3	3.22	132.40	125.95
50	KM	501	GTP	N9-C4-N3	3.22	132.39	125.95
50	AI	501	GTP	N9-C4-N3	3.22	132.39	125.95
52	GH	502	GDP	C6-C5-N7	3.22	136.15	130.29
50	RC	501	GTP	N9-C4-N3	3.22	132.39	125.95
52	QN	502	GDP	C6-C5-N7	3.22	136.15	130.29
52	WP	502	GDP	C6-C5-N7	3.22	136.15	130.29
50	MC	501	GTP	N9-C4-N3	3.22	132.39	125.95
52	BJ	502	GDP	C6-C5-N7	3.22	136.15	130.29
52	FH	502	GDP	C6-C5-N7	3.22	136.15	130.29
52	QL	502	GDP	C6-C5-N7	3.22	136.14	130.29
50	PI	501	GTP	N9-C4-N3	3.22	132.38	125.95
52	NF	502	GDP	C6-C5-N7	3.22	136.14	130.29
50	EC	501	GTP	N9-C4-N3	3.21	132.38	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	LO	501	GTP	N9-C4-N3	3.21	132.38	125.95
52	QD	502	GDP	C6-C5-N7	3.21	136.13	130.29
52	SJ	502	GDP	C6-C5-N7	3.21	136.13	130.29
50	HE	501	GTP	N9-C4-N3	3.21	132.37	125.95
52	OP	502	GDP	C6-C5-N7	3.21	136.13	130.29
52	IJ	502	GDP	C6-C5-N7	3.21	136.13	130.29
50	AA	501	GTP	N9-C4-N3	3.21	132.37	125.95
50	KG	501	GTP	N9-C4-N3	3.21	132.37	125.95
50	OO	501	GTP	N9-C4-N3	3.21	132.36	125.95
50	BK	501	GTP	N9-C4-N3	3.20	132.36	125.95
50	EO	501	GTP	N9-C4-N3	3.20	132.36	125.95
50	NE	501	GTP	N9-C4-N3	3.20	132.36	125.95
52	AL	502	GDP	C6-C5-N7	3.20	136.12	130.29
50	GI	501	GTP	N9-C4-N3	3.20	132.35	125.95
50	NI	501	GTP	N9-C4-N3	3.20	132.35	125.95
52	RP	502	GDP	C6-C5-N7	3.20	136.11	130.29
52	RD	502	GDP	C6-C5-N7	3.20	136.11	130.29
50	SM	501	GTP	N9-C4-N3	3.19	132.34	125.95
50	AK	501	GTP	N9-C4-N3	3.19	132.33	125.95
50	DC	501	GTP	N9-C4-N3	3.19	132.33	125.95
50	KI	501	GTP	N9-C4-N3	3.19	132.33	125.95
50	FA	501	GTP	N9-C4-N3	3.18	132.32	125.95
50	OK	501	GTP	N9-C4-N3	3.18	132.31	125.95
50	QC	501	GTP	N9-C4-N3	3.18	132.31	125.95
50	CG	501	GTP	C2-N1-C6	-3.18	119.34	125.11
52	FN	502	GDP	C6-C5-N7	3.18	136.08	130.29
52	RF	502	GDP	C6-C5-N7	3.18	136.08	130.29
52	JH	502	GDP	C6-C5-N7	3.18	136.07	130.29
50	JI	501	GTP	C2-N1-C6	-3.17	119.36	125.11
50	MO	501	GTP	N9-C4-N3	3.17	132.30	125.95
52	RJ	502	GDP	C6-C5-N7	3.17	136.06	130.29
50	UG	501	GTP	N9-C4-N3	3.17	132.29	125.95
52	NP	502	GDP	C6-C5-N7	3.17	136.05	130.29
50	CE	501	GTP	N9-C4-N3	3.17	132.28	125.95
50	SI	501	GTP	N9-C4-N3	3.17	132.28	125.95
50	NA	501	GTP	N9-C4-N3	3.16	132.28	125.95
50	GA	501	GTP	N9-C4-N3	3.16	132.28	125.95
50	HM	501	GTP	N9-C4-N3	3.16	132.28	125.95
50	IM	501	GTP	N9-C4-N3	3.16	132.27	125.95
50	JK	501	GTP	C2-N1-C6	-3.16	119.39	125.11
52	KP	502	GDP	C6-C5-N7	3.15	136.03	130.29
50	SA	501	GTP	N9-C4-N3	3.15	132.26	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	KO	501	GTP	N9-C4-N3	3.15	132.25	125.95
52	FD	502	GDP	C6-C5-N7	3.15	136.02	130.29
52	SL	502	GDP	C6-C5-N7	3.15	136.02	130.29
50	LK	501	GTP	N9-C4-N3	3.15	132.25	125.95
50	ME	501	GTP	C2-N1-C6	-3.15	119.41	125.11
50	OM	501	GTP	N9-C4-N3	3.14	132.24	125.95
50	DE	501	GTP	N9-C4-N3	3.14	132.23	125.95
50	DO	501	GTP	N9-C4-N3	3.14	132.23	125.95
50	KA	501	GTP	N9-C4-N3	3.14	132.23	125.95
50	JQ	501	GTP	N9-C4-N3	3.14	132.22	125.95
50	WG	501	GTP	N9-C4-N3	3.13	132.22	125.95
50	JG	501	GTP	N9-C4-N3	3.13	132.22	125.95
52	LD	502	GDP	C6-C5-N7	3.13	135.99	130.29
50	QI	501	GTP	N9-C4-N3	3.13	132.21	125.95
52	JF	502	GDP	C4-C5-N7	-3.13	105.71	110.67
50	CK	501	GTP	C2-N1-C6	-3.13	119.44	125.11
50	IK	501	GTP	C2-N1-C6	-3.13	119.44	125.11
50	SE	501	GTP	N9-C4-N3	3.13	132.21	125.95
50	FM	501	GTP	N9-C4-N3	3.13	132.21	125.95
50	PK	501	GTP	N9-C4-N3	3.13	132.20	125.95
52	QB	502	GDP	C6-C5-N7	3.12	135.97	130.29
52	SB	502	GDP	C6-C5-N7	3.12	135.97	130.29
50	OG	501	GTP	N9-C4-N3	3.12	132.19	125.95
50	KC	501	GTP	N9-C4-N3	3.12	132.19	125.95
52	AD	502	GDP	C6-C5-N7	3.12	135.96	130.29
50	TI	501	GTP	N9-C4-N3	3.11	132.18	125.95
52	IP	502	GDP	C6-C5-N7	3.11	135.96	130.29
50	CI	501	GTP	C2-N1-C6	-3.11	119.47	125.11
50	AI	501	GTP	C2-N1-C6	-3.11	119.47	125.11
50	GE	501	GTP	N9-C4-N3	3.11	132.18	125.95
50	TE	501	GTP	N9-C4-N3	3.11	132.17	125.95
50	MK	501	GTP	N9-C4-N3	3.11	132.17	125.95
50	AG	501	GTP	C2-N1-C6	-3.11	119.47	125.11
50	FK	501	GTP	N9-C4-N3	3.11	132.17	125.95
52	KF	502	GDP	C6-C5-N7	3.11	135.95	130.29
50	PO	501	GTP	N9-C4-N3	3.11	132.16	125.95
50	QK	501	GTP	N9-C4-N3	3.10	132.16	125.95
50	FE	501	GTP	N9-C4-N3	3.10	132.15	125.95
50	FI	501	GTP	N9-C4-N3	3.09	132.14	125.95
50	LG	501	GTP	C2-N1-C6	-3.09	119.50	125.11
50	NM	501	GTP	C2-N1-C6	-3.09	119.51	125.11
50	JO	501	GTP	C2-N1-C6	-3.09	119.51	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	WC	501	GTP	N9-C4-N3	3.08	132.12	125.95
50	BI	501	GTP	C2-N1-C6	-3.08	119.53	125.11
50	OE	501	GTP	N9-C4-N3	3.08	132.11	125.95
52	RL	502	GDP	C6-C5-N7	3.08	135.89	130.29
50	PM	501	GTP	C2-N1-C6	-3.08	119.53	125.11
50	DK	501	GTP	C2-N1-C6	-3.07	119.53	125.11
50	OC	501	GTP	N9-C4-N3	3.07	132.10	125.95
50	NK	501	GTP	N9-C4-N3	3.07	132.10	125.95
50	OI	501	GTP	N9-C4-N3	3.07	132.09	125.95
52	KB	502	GDP	C6-C5-N7	3.07	135.88	130.29
50	LE	501	GTP	C2-N1-C6	-3.07	119.55	125.11
50	MI	501	GTP	N9-C4-N3	3.07	132.09	125.95
50	BE	501	GTP	C2-N1-C6	-3.07	119.55	125.11
50	DM	501	GTP	C2-N1-C6	-3.06	119.56	125.11
50	JI	501	GTP	N9-C4-N3	3.06	132.07	125.95
52	SF	502	GDP	C6-C5-N7	3.06	135.86	130.29
50	MK	501	GTP	C2-N1-C6	-3.06	119.56	125.11
50	BG	501	GTP	N9-C4-N3	3.06	132.07	125.95
50	JE	501	GTP	C2-N1-C6	-3.05	119.57	125.11
50	TG	501	GTP	N9-C4-N3	3.05	132.06	125.95
50	CM	501	GTP	C2-N1-C6	-3.05	119.58	125.11
52	RH	502	GDP	C6-C5-N7	3.05	135.84	130.29
50	PG	501	GTP	C2-N1-C6	-3.05	119.58	125.11
50	TM	501	GTP	N9-C4-N3	3.05	132.05	125.95
50	QG	501	GTP	C2-N1-C6	-3.05	119.59	125.11
52	QP	502	GDP	C6-C5-N7	3.05	135.83	130.29
50	KK	501	GTP	C2-N1-C6	-3.05	119.59	125.11
50	LI	501	GTP	C2-N1-C6	-3.04	119.59	125.11
50	AK	501	GTP	C2-N1-C6	-3.04	119.59	125.11
50	RK	501	GTP	C2-N1-C6	-3.04	119.60	125.11
50	GG	501	GTP	N9-C4-N3	3.04	132.03	125.95
50	BG	501	GTP	C2-N1-C6	-3.04	119.60	125.11
50	TK	501	GTP	N9-C4-N3	3.04	132.03	125.95
50	WI	501	GTP	C2-N1-C6	-3.04	119.60	125.11
52	SH	502	GDP	C6-C5-N7	3.04	135.81	130.29
50	FC	501	GTP	C2-N1-C6	-3.04	119.61	125.11
50	EA	501	GTP	C2-N1-C6	-3.04	119.61	125.11
50	IG	501	GTP	C2-N1-C6	-3.03	119.61	125.11
50	RM	501	GTP	C2-N1-C6	-3.03	119.62	125.11
50	LC	501	GTP	C2-N1-C6	-3.03	119.62	125.11
50	WE	501	GTP	C2-N1-C6	-3.03	119.62	125.11
50	FO	501	GTP	C2-N1-C6	-3.03	119.62	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	PM	501	GTP	N9-C4-N3	3.03	132.01	125.95
50	EC	501	GTP	C2-N1-C6	-3.02	119.62	125.11
50	KE	501	GTP	N9-C4-N3	3.02	132.00	125.95
50	HK	501	GTP	C2-N1-C6	-3.02	119.63	125.11
50	IE	501	GTP	C2-N1-C6	-3.02	119.63	125.11
50	AM	501	GTP	N9-C4-N3	3.02	132.00	125.95
50	EM	501	GTP	C2-N1-C6	-3.02	119.64	125.11
50	FI	501	GTP	C2-N1-C6	-3.02	119.64	125.11
50	HC	501	GTP	C2-N1-C6	-3.02	119.64	125.11
50	BM	501	GTP	C2-N1-C6	-3.01	119.65	125.11
50	AC	501	GTP	C2-N1-C6	-3.01	119.65	125.11
50	IO	501	GTP	C2-N1-C6	-3.01	119.65	125.11
50	LM	501	GTP	C2-N1-C6	-3.01	119.65	125.11
50	KC	501	GTP	C2-N1-C6	-3.01	119.65	125.11
50	WC	501	GTP	C2-N1-C6	-3.01	119.65	125.11
50	BO	501	GTP	C2-N1-C6	-3.01	119.65	125.11
50	HO	501	GTP	C2-N1-C6	-3.01	119.66	125.11
52	KJ	502	GDP	C6-C5-N7	3.01	135.76	130.29
50	RG	501	GTP	C2-N1-C6	-3.01	119.66	125.11
50	PI	501	GTP	C2-N1-C6	-3.01	119.66	125.11
50	IM	501	GTP	C2-N1-C6	-3.00	119.66	125.11
50	EI	501	GTP	C2-N1-C6	-3.00	119.67	125.11
50	EE	501	GTP	C2-N1-C6	-3.00	119.67	125.11
50	RO	501	GTP	C2-N1-C6	-3.00	119.67	125.11
50	WK	501	GTP	N9-C4-N3	3.00	131.95	125.95
50	DI	501	GTP	C2-N1-C6	-3.00	119.67	125.11
50	KI	501	GTP	C2-N1-C6	-3.00	119.67	125.11
50	CQ	501	GTP	C2-N1-C6	-3.00	119.67	125.11
50	JC	501	GTP	C2-N1-C6	-3.00	119.67	125.11
50	RC	501	GTP	C2-N1-C6	-2.99	119.69	125.11
50	EK	501	GTP	C2-N1-C6	-2.99	119.69	125.11
50	RI	501	GTP	C2-N1-C6	-2.99	119.69	125.11
50	PO	501	GTP	C2-N1-C6	-2.99	119.69	125.11
50	MO	501	GTP	C2-N1-C6	-2.99	119.69	125.11
50	PE	501	GTP	C2-N1-C6	-2.99	119.69	125.11
50	VK	501	GTP	C2-N1-C6	-2.99	119.69	125.11
50	AA	501	GTP	C2-N1-C6	-2.99	119.69	125.11
50	KA	501	GTP	C2-N1-C6	-2.98	119.70	125.11
50	LA	501	GTP	C2-N1-C6	-2.98	119.70	125.11
50	DE	501	GTP	C2-N1-C6	-2.98	119.70	125.11
50	VG	501	GTP	C2-N1-C6	-2.98	119.71	125.11
50	BK	501	GTP	C2-N1-C6	-2.98	119.71	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	AO	501	GTP	C2-N1-C6	-2.98	119.71	125.11
50	DQ	501	GTP	C2-N1-C6	-2.98	119.71	125.11
50	JM	501	GTP	C2-N1-C6	-2.98	119.72	125.11
50	RE	501	GTP	C2-N1-C6	-2.98	119.72	125.11
50	DG	501	GTP	C2-N1-C6	-2.97	119.72	125.11
50	KG	501	GTP	C2-N1-C6	-2.97	119.72	125.11
50	WM	501	GTP	C2-N1-C6	-2.97	119.72	125.11
50	VA	501	GTP	C2-N1-C6	-2.97	119.72	125.11
50	VC	501	GTP	C2-N1-C6	-2.97	119.72	125.11
50	UM	501	GTP	C2-N1-C6	-2.97	119.73	125.11
50	WO	501	GTP	C2-N1-C6	-2.97	119.73	125.11
50	CO	501	GTP	C2-N1-C6	-2.97	119.73	125.11
50	QI	501	GTP	C2-N1-C6	-2.97	119.73	125.11
50	MI	501	GTP	C2-N1-C6	-2.97	119.73	125.11
50	BC	501	GTP	C2-N1-C6	-2.97	119.73	125.11
50	WG	501	GTP	C2-N1-C6	-2.96	119.74	125.11
50	EG	501	GTP	C2-N1-C6	-2.96	119.74	125.11
50	FA	501	GTP	C2-N1-C6	-2.96	119.75	125.11
50	OG	501	GTP	C2-N1-C6	-2.96	119.75	125.11
50	II	501	GTP	N9-C4-N3	2.95	131.86	125.95
50	QM	501	GTP	C2-N1-C6	-2.95	119.76	125.11
50	LK	501	GTP	C2-N1-C6	-2.95	119.76	125.11
50	CE	501	GTP	C2-N1-C6	-2.95	119.76	125.11
50	CC	501	GTP	C2-N1-C6	-2.95	119.77	125.11
50	HG	501	GTP	N9-C4-N3	2.95	131.85	125.95
50	II	501	GTP	C2-N1-C6	-2.95	119.77	125.11
50	MG	501	GTP	C2-N1-C6	-2.95	119.77	125.11
50	QE	501	GTP	C2-N1-C6	-2.95	119.77	125.11
50	GA	501	GTP	C2-N1-C6	-2.94	119.77	125.11
50	KO	501	GTP	C2-N1-C6	-2.94	119.78	125.11
50	KM	501	GTP	C2-N1-C6	-2.94	119.78	125.11
50	JG	501	GTP	C2-N1-C6	-2.94	119.78	125.11
50	PC	501	GTP	N9-C4-N3	2.94	131.83	125.95
50	AM	501	GTP	C2-N1-C6	-2.94	119.78	125.11
50	GK	501	GTP	N9-C4-N3	2.94	131.82	125.95
50	HM	501	GTP	C2-N1-C6	-2.94	119.79	125.11
50	IA	501	GTP	C2-N1-C6	-2.94	119.79	125.11
50	SC	501	GTP	C2-N1-C6	-2.94	119.79	125.11
50	NK	501	GTP	C2-N1-C6	-2.93	119.79	125.11
50	PK	501	GTP	C2-N1-C6	-2.93	119.79	125.11
50	EO	501	GTP	C2-N1-C6	-2.93	119.79	125.11
50	DC	501	GTP	C2-N1-C6	-2.93	119.80	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	UO	501	GTP	C2-N1-C6	-2.93	119.80	125.11
50	OO	501	GTP	C2-N1-C6	-2.93	119.81	125.11
50	UA	501	GTP	C2-N1-C6	-2.92	119.81	125.11
50	NO	501	GTP	C2-N1-C6	-2.92	119.81	125.11
50	OK	501	GTP	C2-N1-C6	-2.92	119.81	125.11
50	FG	501	GTP	C2-N1-C6	-2.92	119.81	125.11
50	UC	501	GTP	C2-N1-C6	-2.92	119.81	125.11
50	PC	501	GTP	C2-N1-C6	-2.92	119.81	125.11
50	QK	501	GTP	C2-N1-C6	-2.92	119.81	125.11
50	GI	501	GTP	C2-N1-C6	-2.92	119.82	125.11
50	VM	501	GTP	C2-N1-C6	-2.92	119.82	125.11
50	MM	501	GTP	C2-N1-C6	-2.92	119.82	125.11
50	WA	501	GTP	C2-N1-C6	-2.92	119.82	125.11
50	NE	501	GTP	C2-N1-C6	-2.92	119.82	125.11
50	MA	501	GTP	C2-N1-C6	-2.92	119.82	125.11
50	HI	501	GTP	C2-N1-C6	-2.91	119.83	125.11
50	GO	501	GTP	C2-N1-C6	-2.91	119.83	125.11
50	WK	501	GTP	C2-N1-C6	-2.91	119.83	125.11
50	SA	501	GTP	C2-N1-C6	-2.91	119.83	125.11
50	IC	501	GTP	C2-N1-C6	-2.91	119.83	125.11
50	OI	501	GTP	C2-N1-C6	-2.91	119.83	125.11
50	TC	501	GTP	C2-N1-C6	-2.91	119.83	125.11
50	UE	501	GTP	C2-N1-C6	-2.91	119.84	125.11
50	DO	501	GTP	C2-N1-C6	-2.91	119.84	125.11
50	VE	501	GTP	C2-N1-C6	-2.91	119.84	125.11
50	HE	501	GTP	C2-N1-C6	-2.90	119.85	125.11
52	OB	502	GDP	C4-C5-N7	-2.90	106.07	110.67
50	LO	501	GTP	C2-N1-C6	-2.90	119.85	125.11
50	HG	501	GTP	C2-N1-C6	-2.90	119.85	125.11
50	JQ	501	GTP	C2-N1-C6	-2.90	119.85	125.11
50	UI	501	GTP	C2-N1-C6	-2.90	119.86	125.11
50	GC	501	GTP	C2-N1-C6	-2.90	119.86	125.11
50	KE	501	GTP	C2-N1-C6	-2.90	119.86	125.11
50	FK	501	GTP	C2-N1-C6	-2.90	119.86	125.11
50	OA	501	GTP	C2-N1-C6	-2.90	119.86	125.11
50	NC	501	GTP	C2-N1-C6	-2.89	119.86	125.11
50	TA	501	GTP	C2-N1-C6	-2.89	119.86	125.11
50	OM	501	GTP	C2-N1-C6	-2.89	119.87	125.11
50	NI	501	GTP	C2-N1-C6	-2.89	119.87	125.11
50	OC	501	GTP	C2-N1-C6	-2.89	119.87	125.11
50	UG	501	GTP	C2-N1-C6	-2.89	119.87	125.11
50	UK	501	GTP	C2-N1-C6	-2.89	119.87	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	SK	501	GTP	C2-N1-C6	-2.89	119.88	125.11
50	TI	501	GTP	C2-N1-C6	-2.89	119.88	125.11
50	NA	501	GTP	C2-N1-C6	-2.88	119.88	125.11
50	MC	501	GTP	C2-N1-C6	-2.88	119.89	125.11
50	FM	501	GTP	C2-N1-C6	-2.88	119.89	125.11
50	HA	501	GTP	C2-N1-C6	-2.87	119.90	125.11
50	SM	501	GTP	C2-N1-C6	-2.87	119.90	125.11
50	VO	501	GTP	C2-N1-C6	-2.87	119.90	125.11
50	SG	501	GTP	C2-N1-C6	-2.87	119.90	125.11
50	GE	501	GTP	C2-N1-C6	-2.87	119.91	125.11
50	SE	501	GTP	C2-N1-C6	-2.87	119.91	125.11
50	GM	501	GTP	C2-N1-C6	-2.87	119.91	125.11
50	QC	501	GTP	C2-N1-C6	-2.86	119.92	125.11
50	VI	501	GTP	C2-N1-C6	-2.86	119.92	125.11
50	FE	501	GTP	C2-N1-C6	-2.86	119.93	125.11
50	MM	501	GTP	N9-C4-N3	2.85	131.66	125.95
50	NG	501	GTP	C2-N1-C6	-2.85	119.94	125.11
50	GG	501	GTP	C2-N1-C6	-2.85	119.95	125.11
50	PG	501	GTP	N9-C8-N7	-2.84	108.13	113.40
50	OE	501	GTP	C2-N1-C6	-2.84	119.96	125.11
50	TE	501	GTP	C2-N1-C6	-2.83	119.97	125.11
50	TK	501	GTP	C2-N1-C6	-2.83	119.97	125.11
50	HI	501	GTP	N9-C8-N7	-2.83	108.15	113.40
50	TM	501	GTP	C2-N1-C6	-2.82	119.99	125.11
50	TG	501	GTP	C2-N1-C6	-2.82	119.99	125.11
50	NG	501	GTP	N9-C8-N7	-2.82	108.17	113.40
52	JJ	502	GDP	C4-C5-N7	-2.81	106.22	110.67
50	GK	501	GTP	C2-N1-C6	-2.80	120.03	125.11
50	SI	501	GTP	C2-N1-C6	-2.80	120.03	125.11
50	MO	501	GTP	N9-C8-N7	-2.80	108.21	113.40
52	ON	502	GDP	C4-C5-N7	-2.80	106.24	110.67
50	NK	501	GTP	N9-C8-N7	-2.78	108.24	113.40
52	GD	502	GDP	C6-C5-N7	2.78	135.35	130.29
50	AE	501	GTP	N9-C8-N7	-2.78	108.25	113.40
50	JQ	501	GTP	N9-C8-N7	-2.78	108.25	113.40
52	IF	502	GDP	C4-C5-N7	-2.77	106.28	110.67
50	HC	501	GTP	N9-C8-N7	-2.77	108.27	113.40
50	QK	501	GTP	N9-C8-N7	-2.77	108.27	113.40
50	AI	501	GTP	N9-C8-N7	-2.76	108.28	113.40
50	QC	501	GTP	N9-C8-N7	-2.76	108.29	113.40
52	FJ	502	GDP	C6-C5-N7	2.75	135.30	130.29
50	CE	501	GTP	N9-C8-N7	-2.75	108.30	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	KO	501	GTP	N9-C8-N7	-2.75	108.31	113.40
50	IM	501	GTP	N9-C8-N7	-2.74	108.31	113.40
50	MI	501	GTP	N9-C8-N7	-2.74	108.33	113.40
52	DJ	502	GDP	C4-C5-N7	-2.74	106.33	110.67
50	TI	501	GTP	N9-C8-N7	-2.74	108.33	113.40
52	UJ	502	GDP	C4-C5-N7	-2.73	106.34	110.67
50	IE	501	GTP	N9-C8-N7	-2.73	108.33	113.40
52	OJ	502	GDP	O6-C6-C5	-2.73	119.33	126.53
50	QG	501	GTP	N9-C8-N7	-2.73	108.34	113.40
50	AG	501	GTP	N9-C8-N7	-2.73	108.34	113.40
50	JO	501	GTP	C5-C6-N1	2.73	120.19	113.25
50	NM	501	GTP	N9-C8-N7	-2.72	108.35	113.40
50	TK	501	GTP	N9-C8-N7	-2.72	108.35	113.40
52	PL	502	GDP	C4-C5-N7	-2.72	106.35	110.67
50	HM	501	GTP	N9-C8-N7	-2.72	108.35	113.40
50	FK	501	GTP	N9-C8-N7	-2.72	108.35	113.40
50	EO	501	GTP	N9-C8-N7	-2.72	108.36	113.40
50	LI	501	GTP	N9-C8-N7	-2.72	108.36	113.40
50	QM	501	GTP	N9-C8-N7	-2.72	108.36	113.40
52	BB	502	GDP	C4-C5-N7	-2.72	106.37	110.67
52	MB	502	GDP	C4-C5-N7	-2.72	106.37	110.67
52	DH	502	GDP	C4-C5-N7	-2.72	106.37	110.67
50	GI	501	GTP	N9-C8-N7	-2.71	108.37	113.40
50	GK	501	GTP	N9-C8-N7	-2.71	108.37	113.40
50	QI	501	GTP	N9-C8-N7	-2.71	108.37	113.40
50	SA	501	GTP	N9-C8-N7	-2.71	108.38	113.40
50	RI	501	GTP	N9-C8-N7	-2.71	108.38	113.40
50	QG	501	GTP	C5-C6-N1	2.71	120.14	113.25
50	EC	501	GTP	N9-C8-N7	-2.71	108.38	113.40
52	DF	502	GDP	C4-C5-N7	-2.71	106.38	110.67
50	SG	501	GTP	N9-C8-N7	-2.70	108.39	113.40
50	JG	501	GTP	N9-C8-N7	-2.70	108.39	113.40
50	TE	501	GTP	N9-C8-N7	-2.70	108.39	113.40
50	FO	501	GTP	N9-C8-N7	-2.70	108.39	113.40
50	WG	501	GTP	N9-C8-N7	-2.70	108.39	113.40
52	IH	502	GDP	C4-C5-N7	-2.70	106.39	110.67
50	SM	501	GTP	N9-C8-N7	-2.70	108.40	113.40
52	HL	502	GDP	C4-C5-N7	-2.70	106.40	110.67
50	TM	501	GTP	N9-C8-N7	-2.69	108.41	113.40
52	BL	502	GDP	C4-C5-N7	-2.69	106.40	110.67
50	AC	501	GTP	N9-C8-N7	-2.69	108.41	113.40
50	NO	501	GTP	N9-C8-N7	-2.69	108.41	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	VK	501	GTP	N9-C8-N7	-2.69	108.41	113.40
50	MM	501	GTP	N9-C8-N7	-2.69	108.41	113.40
50	PM	501	GTP	N9-C8-N7	-2.69	108.41	113.40
50	SI	501	GTP	N9-C8-N7	-2.69	108.42	113.40
52	VD	502	GDP	C4-C5-N7	-2.69	106.41	110.67
50	PC	501	GTP	N9-C8-N7	-2.69	108.42	113.40
50	DC	501	GTP	N9-C8-N7	-2.69	108.42	113.40
52	JN	502	GDP	C4-C5-N7	-2.69	106.42	110.67
52	PJ	502	GDP	C4-C5-N7	-2.69	106.42	110.67
50	MG	501	GTP	N9-C8-N7	-2.68	108.42	113.40
50	OG	501	GTP	N9-C8-N7	-2.68	108.42	113.40
52	PH	502	GDP	C4-C5-N7	-2.68	106.42	110.67
50	AO	501	GTP	N9-C8-N7	-2.68	108.43	113.40
50	LM	501	GTP	N9-C8-N7	-2.68	108.43	113.40
50	OO	501	GTP	N9-C8-N7	-2.68	108.43	113.40
50	WC	501	GTP	N9-C8-N7	-2.68	108.43	113.40
50	GA	501	GTP	N9-C8-N7	-2.68	108.43	113.40
50	JI	501	GTP	N9-C8-N7	-2.68	108.44	113.40
50	SE	501	GTP	N9-C8-N7	-2.68	108.44	113.40
50	GO	501	GTP	N9-C8-N7	-2.68	108.44	113.40
50	VM	501	GTP	N9-C8-N7	-2.68	108.44	113.40
52	WF	502	GDP	C4-C5-N7	-2.67	106.43	110.67
52	PP	502	GDP	C4-C5-N7	-2.67	106.43	110.67
52	VN	502	GDP	C4-C5-N7	-2.67	106.43	110.67
50	TA	501	GTP	N9-C8-N7	-2.67	108.44	113.40
52	JP	502	GDP	C4-C5-N7	-2.67	106.43	110.67
50	JC	501	GTP	N9-C8-N7	-2.67	108.44	113.40
52	NL	502	GDP	C4-C5-N7	-2.67	106.44	110.67
52	UH	502	GDP	C4-C5-N7	-2.67	106.44	110.67
52	WJ	502	GDP	C4-C5-N7	-2.67	106.44	110.67
50	AE	501	GTP	C5-C6-N1	2.67	120.05	113.25
50	NM	501	GTP	N9-C4-N3	2.67	131.29	125.95
50	IK	501	GTP	N9-C8-N7	-2.67	108.45	113.40
50	AM	501	GTP	N9-C8-N7	-2.67	108.45	113.40
50	PK	501	GTP	N9-C8-N7	-2.67	108.45	113.40
50	LK	501	GTP	N9-C8-N7	-2.67	108.45	113.40
50	MA	501	GTP	N9-C8-N7	-2.67	108.46	113.40
50	VG	501	GTP	N9-C8-N7	-2.67	108.46	113.40
50	EM	501	GTP	N9-C8-N7	-2.66	108.46	113.40
52	PF	502	GDP	C4-C5-N7	-2.66	106.45	110.67
50	QE	501	GTP	N9-C8-N7	-2.66	108.46	113.40
50	HA	501	GTP	N9-C8-N7	-2.66	108.46	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	OE	501	GTP	N9-C8-N7	-2.66	108.46	113.40
52	EF	502	GDP	C4-C5-N7	-2.66	106.45	110.67
50	IK	501	GTP	C8-N7-C5	2.66	109.00	104.26
50	RG	501	GTP	N9-C8-N7	-2.66	108.47	113.40
50	WA	501	GTP	N9-C8-N7	-2.66	108.47	113.40
50	LA	501	GTP	N9-C8-N7	-2.66	108.47	113.40
50	UI	501	GTP	N9-C8-N7	-2.66	108.47	113.40
52	VJ	502	GDP	C4-C5-N7	-2.66	106.45	110.67
50	PO	501	GTP	N9-C8-N7	-2.66	108.47	113.40
50	RC	501	GTP	N9-C8-N7	-2.66	108.47	113.40
50	DE	501	GTP	N9-C8-N7	-2.66	108.47	113.40
50	FE	501	GTP	N9-C8-N7	-2.66	108.47	113.40
50	RE	501	GTP	N9-C8-N7	-2.66	108.47	113.40
52	VL	502	GDP	C4-C5-N7	-2.66	106.46	110.67
50	DO	501	GTP	N9-C8-N7	-2.66	108.47	113.40
50	HG	501	GTP	N9-C8-N7	-2.66	108.47	113.40
50	HE	501	GTP	N9-C8-N7	-2.66	108.48	113.40
52	JL	502	GDP	C4-C5-N7	-2.66	106.46	110.67
50	IM	501	GTP	C8-N7-C5	2.66	108.99	104.26
52	BF	502	GDP	C4-C5-N7	-2.65	106.47	110.67
50	KK	501	GTP	C5-C6-N1	2.65	120.00	113.25
50	AA	501	GTP	N9-C8-N7	-2.65	108.48	113.40
50	IO	501	GTP	N9-C8-N7	-2.65	108.48	113.40
50	UC	501	GTP	N9-C8-N7	-2.65	108.48	113.40
50	JM	501	GTP	N9-C8-N7	-2.65	108.48	113.40
50	NA	501	GTP	N9-C8-N7	-2.65	108.48	113.40
50	VA	501	GTP	N9-C8-N7	-2.65	108.48	113.40
50	IC	501	GTP	N9-C8-N7	-2.65	108.48	113.40
50	UA	501	GTP	N9-C8-N7	-2.65	108.48	113.40
50	VE	501	GTP	N9-C8-N7	-2.65	108.48	113.40
52	EB	502	GDP	C4-C5-N7	-2.65	106.47	110.67
50	FC	501	GTP	C5-C6-N1	2.65	120.00	113.25
50	BO	501	GTP	N9-C8-N7	-2.65	108.49	113.40
52	GF	502	GDP	C4-C5-N7	-2.65	106.47	110.67
50	DI	501	GTP	N9-C8-N7	-2.65	108.49	113.40
52	WH	502	GDP	C4-C5-N7	-2.65	106.47	110.67
50	IG	501	GTP	C8-N7-C5	2.65	108.98	104.26
50	IO	501	GTP	C8-N7-C5	2.65	108.98	104.26
50	LO	501	GTP	N9-C8-N7	-2.65	108.49	113.40
50	WK	501	GTP	N9-C8-N7	-2.65	108.49	113.40
52	JD	502	GDP	C4-C5-N7	-2.65	106.48	110.67
52	WN	502	GDP	C4-C5-N7	-2.65	106.48	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	JE	501	GTP	N9-C8-N7	-2.65	108.49	113.40
50	KI	501	GTP	C5-C6-N1	2.65	119.99	113.25
52	PN	502	GDP	C4-C5-N7	-2.65	106.48	110.67
50	LE	501	GTP	N9-C8-N7	-2.64	108.50	113.40
52	UF	502	GDP	C4-C5-N7	-2.64	106.48	110.67
50	UG	501	GTP	N9-C8-N7	-2.64	108.50	113.40
50	BC	501	GTP	N9-C8-N7	-2.64	108.50	113.40
50	OC	501	GTP	N9-C8-N7	-2.64	108.50	113.40
50	UE	501	GTP	N9-C8-N7	-2.64	108.50	113.40
50	EG	501	GTP	N9-C8-N7	-2.64	108.50	113.40
50	VC	501	GTP	N9-C8-N7	-2.64	108.50	113.40
50	BC	501	GTP	C8-N7-C5	2.64	108.97	104.26
50	GM	501	GTP	N9-C8-N7	-2.64	108.50	113.40
50	QO	501	GTP	N9-C8-N7	-2.64	108.50	113.40
52	UD	502	GDP	C4-C5-N7	-2.64	106.49	110.67
50	BG	501	GTP	N9-C8-N7	-2.64	108.51	113.40
50	DG	501	GTP	N9-C8-N7	-2.64	108.51	113.40
50	FC	501	GTP	N9-C8-N7	-2.64	108.51	113.40
50	OA	501	GTP	N9-C8-N7	-2.64	108.51	113.40
52	AP	502	GDP	C4-C5-N7	-2.64	106.49	110.67
50	DQ	501	GTP	N9-C8-N7	-2.64	108.51	113.40
50	WM	501	GTP	N9-C8-N7	-2.64	108.51	113.40
50	IG	501	GTP	N9-C8-N7	-2.64	108.51	113.40
52	TN	502	GDP	C4-C5-N7	-2.64	106.49	110.67
50	RG	501	GTP	C5-C6-N1	2.64	119.97	113.25
50	VO	501	GTP	N9-C8-N7	-2.64	108.51	113.40
50	QO	501	GTP	C8-N7-C5	2.64	108.96	104.26
50	GE	501	GTP	N9-C8-N7	-2.64	108.51	113.40
50	RI	501	GTP	C8-N7-C5	2.64	108.95	104.26
50	FI	501	GTP	N9-C8-N7	-2.64	108.51	113.40
50	KM	501	GTP	N9-C8-N7	-2.63	108.52	113.40
50	OK	501	GTP	N9-C8-N7	-2.63	108.52	113.40
50	FM	501	GTP	N9-C8-N7	-2.63	108.52	113.40
50	JO	501	GTP	C8-N7-C5	2.63	108.95	104.26
50	PG	501	GTP	C8-N7-C5	2.63	108.95	104.26
52	UB	502	GDP	C4-C5-N7	-2.63	106.50	110.67
50	CG	501	GTP	C8-N7-C5	2.63	108.95	104.26
52	CP	502	GDP	C4-C5-N7	-2.63	106.50	110.67
52	HN	502	GDP	C4-C5-N7	-2.63	106.50	110.67
50	EE	501	GTP	N9-C8-N7	-2.63	108.52	113.40
50	EI	501	GTP	N9-C8-N7	-2.63	108.52	113.40
50	TG	501	GTP	N9-C8-N7	-2.63	108.52	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	UN	502	GDP	C4-C5-N7	-2.63	106.50	110.67
50	PE	501	GTP	N9-C8-N7	-2.63	108.52	113.40
50	IK	501	GTP	C5-C6-N1	2.63	119.95	113.25
50	RO	501	GTP	C5-C6-N1	2.63	119.95	113.25
50	PI	501	GTP	N9-C8-N7	-2.63	108.52	113.40
52	OF	502	GDP	C4-C5-N7	-2.63	106.50	110.67
50	RM	501	GTP	C5-C6-N1	2.63	119.94	113.25
50	JK	501	GTP	C5-C6-N1	2.63	119.94	113.25
52	VH	502	GDP	C4-C5-N7	-2.63	106.51	110.67
50	FA	501	GTP	N9-C8-N7	-2.63	108.53	113.40
52	PD	502	GDP	C4-C5-N7	-2.63	106.51	110.67
50	CG	501	GTP	N9-C8-N7	-2.63	108.53	113.40
50	KA	501	GTP	N9-C8-N7	-2.63	108.53	113.40
50	CQ	501	GTP	N9-C8-N7	-2.62	108.53	113.40
50	CE	501	GTP	C8-N7-C5	2.62	108.94	104.26
50	EC	501	GTP	C5-C6-N1	2.62	119.93	113.25
50	KE	501	GTP	N9-C8-N7	-2.62	108.53	113.40
50	JO	501	GTP	N9-C8-N7	-2.62	108.53	113.40
52	QJ	502	GDP	C4-C5-N7	-2.62	106.51	110.67
50	UO	501	GTP	N9-C8-N7	-2.62	108.54	113.40
50	TC	501	GTP	N9-C8-N7	-2.62	108.54	113.40
52	AB	502	GDP	C4-C5-N7	-2.62	106.52	110.67
52	VB	502	GDP	C4-C5-N7	-2.62	106.52	110.67
50	AE	501	GTP	O6-C6-C5	-2.62	119.61	126.53
52	IJ	502	GDP	C4-C5-N7	-2.62	106.52	110.67
52	PB	502	GDP	C4-C5-N7	-2.62	106.52	110.67
50	GG	501	GTP	N9-C8-N7	-2.62	108.54	113.40
50	CI	501	GTP	N9-C8-N7	-2.62	108.54	113.40
50	AG	501	GTP	C5-C6-N1	2.62	119.92	113.25
52	WB	502	GDP	C4-C5-N7	-2.62	106.52	110.67
50	CC	501	GTP	N9-C8-N7	-2.62	108.54	113.40
50	KI	501	GTP	N9-C8-N7	-2.62	108.54	113.40
52	BH	502	GDP	C4-C5-N7	-2.62	106.52	110.67
50	GC	501	GTP	N9-C8-N7	-2.62	108.55	113.40
50	KC	501	GTP	N9-C8-N7	-2.62	108.55	113.40
52	ED	502	GDP	C4-C5-N7	-2.62	106.52	110.67
52	TH	502	GDP	C4-C5-N7	-2.62	106.53	110.67
50	AK	501	GTP	C5-C6-N1	2.62	119.91	113.25
50	VK	501	GTP	C5-C6-N1	2.62	119.91	113.25
50	MK	501	GTP	C5-C6-N1	2.61	119.91	113.25
50	IA	501	GTP	N9-C8-N7	-2.61	108.56	113.40
50	PK	501	GTP	C8-N7-C5	2.61	108.91	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	HC	501	GTP	C5-C6-N1	2.61	119.90	113.25
52	BD	502	GDP	C4-C5-N7	-2.61	106.53	110.67
52	WD	502	GDP	C4-C5-N7	-2.61	106.53	110.67
50	PI	501	GTP	C5-C6-N1	2.61	119.90	113.25
50	RM	501	GTP	N9-C8-N7	-2.61	108.56	113.40
50	QG	501	GTP	O6-C6-C5	-2.61	119.64	126.53
50	CM	501	GTP	N9-C8-N7	-2.61	108.56	113.40
50	MK	501	GTP	N9-C8-N7	-2.61	108.56	113.40
50	SK	501	GTP	N9-C8-N7	-2.61	108.56	113.40
52	CN	502	GDP	C4-C5-N7	-2.61	106.53	110.67
50	RE	501	GTP	C5-C6-N1	2.61	119.89	113.25
50	CO	501	GTP	N9-C8-N7	-2.61	108.56	113.40
50	RO	501	GTP	N9-C8-N7	-2.61	108.56	113.40
50	BK	501	GTP	N9-C8-N7	-2.61	108.56	113.40
50	RK	501	GTP	N9-C8-N7	-2.61	108.56	113.40
50	EA	501	GTP	C5-C6-N1	2.61	119.89	113.25
50	KA	501	GTP	C5-C6-N1	2.61	119.89	113.25
50	LC	501	GTP	N9-C8-N7	-2.61	108.57	113.40
50	UM	501	GTP	N9-C8-N7	-2.61	108.57	113.40
50	AI	501	GTP	C5-C6-N1	2.61	119.88	113.25
50	NG	501	GTP	O6-C6-C5	-2.60	119.66	126.53
50	WC	501	GTP	C5-C6-N1	2.60	119.88	113.25
52	UL	502	GDP	C4-C5-N7	-2.60	106.55	110.67
50	JI	501	GTP	C5-C6-N1	2.60	119.88	113.25
52	TJ	502	GDP	C4-C5-N7	-2.60	106.55	110.67
50	JQ	501	GTP	C8-N7-C5	2.60	108.90	104.26
50	WE	501	GTP	N9-C8-N7	-2.60	108.58	113.40
50	WI	501	GTP	N9-C8-N7	-2.60	108.58	113.40
50	EK	501	GTP	N9-C8-N7	-2.60	108.58	113.40
50	NC	501	GTP	N9-C8-N7	-2.60	108.58	113.40
50	BI	501	GTP	C5-C6-N1	2.60	119.88	113.25
52	CJ	502	GDP	C4-C5-N7	-2.60	106.55	110.67
52	VF	502	GDP	C4-C5-N7	-2.60	106.55	110.67
50	KC	501	GTP	C5-C6-N1	2.60	119.87	113.25
50	JG	501	GTP	C8-N7-C5	2.60	108.89	104.26
50	RK	501	GTP	C5-C6-N1	2.60	119.86	113.25
52	EH	502	GDP	C4-C5-N7	-2.60	106.56	110.67
50	QI	501	GTP	C5-C6-N1	2.60	119.86	113.25
50	AC	501	GTP	C5-C6-N1	2.60	119.86	113.25
50	NE	501	GTP	N9-C8-N7	-2.60	108.59	113.40
50	EC	501	GTP	C8-N7-C5	2.59	108.88	104.26
50	EM	501	GTP	C5-C6-N1	2.59	119.86	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	HB	502	GDP	C4-C5-N7	-2.59	106.56	110.67
50	QC	501	GTP	C8-N7-C5	2.59	108.88	104.26
52	DN	502	GDP	C4-C5-N7	-2.59	106.56	110.67
50	WO	501	GTP	N9-C8-N7	-2.59	108.59	113.40
50	BI	501	GTP	N9-C8-N7	-2.59	108.59	113.40
52	CL	502	GDP	C4-C5-N7	-2.59	106.56	110.67
50	RC	501	GTP	C5-C6-N1	2.59	119.85	113.25
50	KG	501	GTP	N9-C8-N7	-2.59	108.59	113.40
52	MH	502	GDP	C4-C5-N7	-2.59	106.56	110.67
52	CF	502	GDP	C4-C5-N7	-2.59	106.56	110.67
50	CK	501	GTP	C5-C6-N1	2.59	119.84	113.25
50	CM	501	GTP	C5-C6-N1	2.59	119.84	113.25
52	CH	502	GDP	C4-C5-N7	-2.59	106.57	110.67
50	DC	501	GTP	C8-N7-C5	2.59	108.87	104.26
50	FO	501	GTP	C5-C6-N1	2.59	119.84	113.25
50	BE	501	GTP	O6-C6-C5	-2.59	119.70	126.53
50	CG	501	GTP	C5-C6-N1	2.59	119.83	113.25
50	QE	501	GTP	C8-N7-C5	2.59	108.87	104.26
50	QK	501	GTP	C8-N7-C5	2.59	108.87	104.26
52	KN	502	GDP	C4-C5-N7	-2.58	106.57	110.67
50	ME	501	GTP	C5-C6-N1	2.58	119.83	113.25
52	EJ	502	GDP	C4-C5-N7	-2.58	106.58	110.67
52	WL	502	GDP	C4-C5-N7	-2.58	106.58	110.67
52	TL	502	GDP	C4-C5-N7	-2.58	106.58	110.67
50	KG	501	GTP	C5-C6-N1	2.58	119.83	113.25
50	TC	501	GTP	C5-C6-N1	2.58	119.82	113.25
50	EK	501	GTP	C5-C6-N1	2.58	119.82	113.25
52	BP	502	GDP	C4-C5-N7	-2.58	106.58	110.67
52	IN	502	GDP	C4-C5-N7	-2.58	106.58	110.67
50	PO	501	GTP	C5-C6-N1	2.58	119.82	113.25
50	PE	501	GTP	C5-C6-N1	2.58	119.82	113.25
50	LG	501	GTP	C5-C6-N1	2.58	119.82	113.25
50	UK	501	GTP	N9-C8-N7	-2.58	108.62	113.40
50	EI	501	GTP	C5-C6-N1	2.58	119.81	113.25
50	LE	501	GTP	C5-C6-N1	2.58	119.81	113.25
52	DB	502	GDP	C4-C5-N7	-2.58	106.59	110.67
50	QC	501	GTP	C5-C6-N1	2.58	119.81	113.25
50	QM	501	GTP	C8-N7-C5	2.58	108.85	104.26
50	LI	501	GTP	C5-C6-N1	2.58	119.81	113.25
50	KK	501	GTP	N9-C8-N7	-2.58	108.62	113.40
52	TB	502	GDP	C4-C5-N7	-2.57	106.59	110.67
52	BJ	502	GDP	C4-C5-N7	-2.57	106.59	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	DM	501	GTP	N9-C8-N7	-2.57	108.63	113.40
50	EE	501	GTP	C5-C6-N1	2.57	119.80	113.25
52	BN	502	GDP	C4-C5-N7	-2.57	106.59	110.67
50	OG	501	GTP	C5-C6-N1	2.57	119.80	113.25
50	WI	501	GTP	C5-C6-N1	2.57	119.80	113.25
50	VK	501	GTP	C8-N7-C5	2.57	108.84	104.26
50	EG	501	GTP	C5-C6-N1	2.57	119.80	113.25
52	LN	502	GDP	C4-C5-N7	-2.57	106.60	110.67
50	BK	501	GTP	C8-N7-C5	2.57	108.84	104.26
50	BG	501	GTP	C5-C6-N1	2.57	119.80	113.25
50	FI	501	GTP	C5-C6-N1	2.57	119.80	113.25
50	WG	501	GTP	C5-C6-N1	2.57	119.80	113.25
50	PM	501	GTP	C8-N7-C5	2.57	108.84	104.26
52	EN	502	GDP	C4-C5-N7	-2.57	106.60	110.67
50	FA	501	GTP	C5-C6-N1	2.57	119.79	113.25
50	OE	501	GTP	C8-N7-C5	2.57	108.84	104.26
50	PC	501	GTP	C8-N7-C5	2.57	108.84	104.26
50	DK	501	GTP	C5-C6-N1	2.57	119.79	113.25
52	IB	502	GDP	C4-C5-N7	-2.57	106.60	110.67
50	AC	501	GTP	O6-C6-C5	-2.57	119.75	126.53
50	BE	501	GTP	N9-C8-N7	-2.57	108.64	113.40
50	HI	501	GTP	C8-N7-C5	2.57	108.83	104.26
50	KE	501	GTP	C5-C6-N1	2.57	119.79	113.25
50	NI	501	GTP	N9-C8-N7	-2.57	108.64	113.40
50	IC	501	GTP	C8-N7-C5	2.57	108.83	104.26
50	JE	501	GTP	C8-N7-C5	2.57	108.83	104.26
50	DM	501	GTP	C5-C6-N1	2.57	119.79	113.25
50	PO	501	GTP	C8-N7-C5	2.57	108.83	104.26
50	JC	501	GTP	C8-N7-C5	2.57	108.83	104.26
50	QI	501	GTP	C8-N7-C5	2.57	108.83	104.26
52	AF	502	GDP	C4-C5-N7	-2.57	106.61	110.67
50	EA	501	GTP	N9-C8-N7	-2.56	108.64	113.40
50	AK	501	GTP	N9-C8-N7	-2.56	108.65	113.40
50	AG	501	GTP	C8-N7-C5	2.56	108.83	104.26
50	JM	501	GTP	C8-N7-C5	2.56	108.83	104.26
50	ME	501	GTP	N9-C8-N7	-2.56	108.65	113.40
50	AA	501	GTP	C5-C6-N1	2.56	119.78	113.25
52	QH	502	GDP	C4-C5-N7	-2.56	106.61	110.67
52	TD	502	GDP	C4-C5-N7	-2.56	106.61	110.67
50	DE	501	GTP	C5-C6-N1	2.56	119.77	113.25
50	BO	501	GTP	C8-N7-C5	2.56	108.82	104.26
50	FG	501	GTP	N9-C8-N7	-2.56	108.65	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	LC	501	GTP	C5-C6-N1	2.56	119.77	113.25
50	QK	501	GTP	C5-C6-N1	2.56	119.77	113.25
50	WE	501	GTP	C5-C6-N1	2.56	119.77	113.25
50	OI	501	GTP	C5-C6-N1	2.56	119.77	113.25
50	NO	501	GTP	C5-C6-N1	2.56	119.77	113.25
50	ME	501	GTP	C8-N7-C5	2.56	108.82	104.26
52	JB	502	GDP	C4-C5-N7	-2.56	106.61	110.67
50	JE	501	GTP	C5-C6-N1	2.56	119.77	113.25
52	TF	502	GDP	C4-C5-N7	-2.56	106.61	110.67
50	VE	501	GTP	C8-N7-C5	2.56	108.82	104.26
52	AN	502	GDP	C4-C5-N7	-2.56	106.61	110.67
50	AI	501	GTP	C8-N7-C5	2.56	108.82	104.26
52	HP	502	GDP	C4-C5-N7	-2.56	106.62	110.67
52	MP	502	GDP	C4-C5-N7	-2.56	106.62	110.67
50	VM	501	GTP	C8-N7-C5	2.56	108.82	104.26
50	OO	501	GTP	C8-N7-C5	2.56	108.81	104.26
50	OI	501	GTP	N9-C8-N7	-2.56	108.66	113.40
52	WP	502	GDP	C4-C5-N7	-2.55	106.62	110.67
50	BE	501	GTP	C5-C6-N1	2.55	119.75	113.25
50	NG	501	GTP	C5-C6-N1	2.55	119.75	113.25
50	VA	501	GTP	C8-N7-C5	2.55	108.81	104.26
50	DC	501	GTP	C5-C6-N1	2.55	119.75	113.25
52	NB	502	GDP	C4-C5-N7	-2.55	106.62	110.67
50	CK	501	GTP	C8-N7-C5	2.55	108.81	104.26
50	LI	501	GTP	C8-N7-C5	2.55	108.81	104.26
50	SA	501	GTP	C8-N7-C5	2.55	108.81	104.26
50	BK	501	GTP	C5-C6-N1	2.55	119.75	113.25
50	WM	501	GTP	C5-C6-N1	2.55	119.75	113.25
50	OG	501	GTP	C8-N7-C5	2.55	108.81	104.26
50	OC	501	GTP	C5-C6-N1	2.55	119.75	113.25
50	RI	501	GTP	C5-C6-N1	2.55	119.75	113.25
50	GO	501	GTP	C5-C6-N1	2.55	119.75	113.25
52	LP	502	GDP	C4-C5-N7	-2.55	106.63	110.67
52	CD	502	GDP	C4-C5-N7	-2.55	106.63	110.67
50	IG	501	GTP	C5-C6-N1	2.55	119.74	113.25
50	NI	501	GTP	C5-C6-N1	2.55	119.74	113.25
50	MC	501	GTP	N9-C8-N7	-2.55	108.67	113.40
50	AA	501	GTP	C8-N7-C5	2.55	108.80	104.26
50	NK	501	GTP	C5-C6-N1	2.55	119.74	113.25
50	DE	501	GTP	C8-N7-C5	2.55	108.80	104.26
52	HD	502	GDP	C4-C5-N7	-2.55	106.63	110.67
50	KI	501	GTP	O6-C6-C5	-2.55	119.81	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	LM	501	GTP	C5-C6-N1	2.55	119.74	113.25
50	HC	501	GTP	C8-N7-C5	2.55	108.80	104.26
50	BM	501	GTP	N9-C8-N7	-2.55	108.68	113.40
50	HM	501	GTP	C8-N7-C5	2.55	108.80	104.26
52	EL	502	GDP	C4-C5-N7	-2.55	106.63	110.67
52	MN	502	GDP	C4-C5-N7	-2.55	106.63	110.67
50	DQ	501	GTP	C8-N7-C5	2.55	108.80	104.26
50	BG	501	GTP	C8-N7-C5	2.55	108.79	104.26
52	FJ	502	GDP	C4-C5-N7	-2.54	106.64	110.67
50	TE	501	GTP	C5-C6-N1	2.54	119.73	113.25
50	CQ	501	GTP	C8-N7-C5	2.54	108.79	104.26
50	GA	501	GTP	C8-N7-C5	2.54	108.79	104.26
50	NK	501	GTP	C8-N7-C5	2.54	108.79	104.26
50	VO	501	GTP	C8-N7-C5	2.54	108.79	104.26
50	OC	501	GTP	C8-N7-C5	2.54	108.79	104.26
52	DL	502	GDP	C4-C5-N7	-2.54	106.64	110.67
52	NP	502	GDP	C4-C5-N7	-2.54	106.64	110.67
50	IA	501	GTP	C8-N7-C5	2.54	108.79	104.26
50	JM	501	GTP	C5-C6-N1	2.54	119.72	113.25
50	UC	501	GTP	C8-N7-C5	2.54	108.79	104.26
50	CO	501	GTP	C5-C6-N1	2.54	119.72	113.25
50	HK	501	GTP	N9-C8-N7	-2.54	108.69	113.40
50	UA	501	GTP	C8-N7-C5	2.54	108.79	104.26
50	DQ	501	GTP	C5-C6-N1	2.54	119.72	113.25
50	VI	501	GTP	C5-C6-N1	2.54	119.72	113.25
50	MO	501	GTP	C5-C6-N1	2.54	119.72	113.25
52	HJ	502	GDP	C4-C5-N7	-2.54	106.64	110.67
50	VC	501	GTP	C5-C6-N1	2.54	119.72	113.25
50	VG	501	GTP	C8-N7-C5	2.54	108.78	104.26
50	UE	501	GTP	C5-C6-N1	2.54	119.72	113.25
50	HI	501	GTP	C5-C6-N1	2.54	119.71	113.25
50	OK	501	GTP	C5-C6-N1	2.54	119.71	113.25
50	PK	501	GTP	C5-C6-N1	2.54	119.71	113.25
50	RC	501	GTP	C8-N7-C5	2.54	108.78	104.26
50	AO	501	GTP	C5-C6-N1	2.54	119.71	113.25
50	CQ	501	GTP	C5-C6-N1	2.54	119.71	113.25
50	BO	501	GTP	C5-C6-N1	2.54	119.71	113.25
50	HM	501	GTP	C5-C6-N1	2.54	119.71	113.25
50	VI	501	GTP	N9-C8-N7	-2.54	108.70	113.40
50	DK	501	GTP	N9-C8-N7	-2.54	108.70	113.40
52	GN	502	GDP	C4-C5-N7	-2.54	106.65	110.67
50	HE	501	GTP	C8-N7-C5	2.54	108.78	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	IE	501	GTP	C5-C6-N1	2.54	119.71	113.25
50	KM	501	GTP	C5-C6-N1	2.54	119.71	113.25
50	KE	501	GTP	O6-C6-C5	-2.53	119.84	126.53
50	OM	501	GTP	N9-C8-N7	-2.53	108.70	113.40
50	WK	501	GTP	C5-C6-N1	2.53	119.70	113.25
50	DI	501	GTP	C8-N7-C5	2.53	108.77	104.26
52	HF	502	GDP	C4-C5-N7	-2.53	106.66	110.67
50	SK	501	GTP	C5-C6-N1	2.53	119.70	113.25
50	AM	501	GTP	C5-C6-N1	2.53	119.70	113.25
50	FK	501	GTP	C5-C6-N1	2.53	119.70	113.25
52	DP	502	GDP	C4-C5-N7	-2.53	106.66	110.67
52	OH	502	GDP	C4-C5-N7	-2.53	106.66	110.67
52	MJ	502	GDP	C4-C5-N7	-2.53	106.66	110.67
52	HH	502	GDP	C4-C5-N7	-2.53	106.66	110.67
52	LB	502	GDP	C4-C5-N7	-2.53	106.66	110.67
50	SG	501	GTP	C8-N7-C5	2.53	108.77	104.26
50	QM	501	GTP	C5-C6-N1	2.53	119.69	113.25
50	GA	501	GTP	C5-C6-N1	2.53	119.69	113.25
50	HK	501	GTP	C5-C6-N1	2.53	119.69	113.25
52	RP	502	GDP	C4-C5-N7	-2.53	106.66	110.67
50	JC	501	GTP	C5-C6-N1	2.53	119.69	113.25
50	EO	501	GTP	C5-C6-N1	2.53	119.69	113.25
50	HO	501	GTP	C5-C6-N1	2.53	119.69	113.25
50	RK	501	GTP	C8-N7-C5	2.53	108.76	104.26
50	WC	501	GTP	C8-N7-C5	2.53	108.76	104.26
50	KO	501	GTP	C5-C6-N1	2.53	119.69	113.25
50	CI	501	GTP	C8-N7-C5	2.53	108.76	104.26
50	DG	501	GTP	C8-N7-C5	2.53	108.76	104.26
50	RE	501	GTP	C8-N7-C5	2.53	108.76	104.26
50	LG	501	GTP	N9-C8-N7	-2.53	108.72	113.40
50	RM	501	GTP	C8-N7-C5	2.53	108.76	104.26
50	PG	501	GTP	C5-C6-N1	2.52	119.68	113.25
50	VA	501	GTP	C5-C6-N1	2.52	119.68	113.25
50	LA	501	GTP	C5-C6-N1	2.52	119.68	113.25
52	ND	502	GDP	C4-C5-N7	-2.52	106.67	110.67
50	QE	501	GTP	C5-C6-N1	2.52	119.68	113.25
50	BI	501	GTP	O6-C6-C5	-2.52	119.87	126.53
50	CK	501	GTP	N9-C8-N7	-2.52	108.72	113.40
50	SC	501	GTP	N9-C8-N7	-2.52	108.72	113.40
50	CC	501	GTP	C5-C6-N1	2.52	119.68	113.25
50	DI	501	GTP	C5-C6-N1	2.52	119.68	113.25
50	UM	501	GTP	C5-C6-N1	2.52	119.68	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	EM	501	GTP	C8-N7-C5	2.52	108.75	104.26
52	IL	502	GDP	C4-C5-N7	-2.52	106.67	110.67
52	LF	502	GDP	C4-C5-N7	-2.52	106.67	110.67
52	ML	502	GDP	C4-C5-N7	-2.52	106.67	110.67
52	QN	502	GDP	C4-C5-N7	-2.52	106.67	110.67
50	AO	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	OA	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	WO	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	SM	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	BO	501	GTP	O6-C6-C5	-2.52	119.88	126.53
50	FG	501	GTP	C5-C6-N1	2.52	119.67	113.25
50	DG	501	GTP	C5-C6-N1	2.52	119.67	113.25
50	TE	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	TI	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	GC	501	GTP	C5-C6-N1	2.52	119.67	113.25
52	AH	502	GDP	C4-C5-N7	-2.52	106.68	110.67
50	EK	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	LK	501	GTP	C5-C6-N1	2.52	119.67	113.25
50	VC	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	BM	501	GTP	C5-C6-N1	2.52	119.67	113.25
50	GI	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	IE	501	GTP	C8-N7-C5	2.52	108.75	104.26
52	OB	502	GDP	C3'-C2'-C1'	2.52	106.23	101.46
50	IM	501	GTP	C5-C6-N1	2.52	119.67	113.25
50	WO	501	GTP	C5-C6-N1	2.52	119.67	113.25
50	UG	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	AM	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	NM	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	BC	501	GTP	C5-C6-N1	2.52	119.66	113.25
50	PI	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	UO	501	GTP	C8-N7-C5	2.52	108.75	104.26
50	HG	501	GTP	C5-C6-N1	2.52	119.66	113.25
50	BE	501	GTP	C8-N7-C5	2.52	108.74	104.26
50	CC	501	GTP	C8-N7-C5	2.52	108.74	104.26
50	EO	501	GTP	C8-N7-C5	2.52	108.74	104.26
50	GO	501	GTP	C8-N7-C5	2.52	108.74	104.26
50	WI	501	GTP	C8-N7-C5	2.52	108.74	104.26
50	GG	501	GTP	C8-N7-C5	2.52	108.74	104.26
50	DO	501	GTP	C5-C6-N1	2.52	119.66	113.25
50	EI	501	GTP	C8-N7-C5	2.52	108.74	104.26
50	UM	501	GTP	C8-N7-C5	2.51	108.74	104.26
50	TA	501	GTP	C8-N7-C5	2.51	108.74	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	TI	501	GTP	C5-C6-N1	2.51	119.65	113.25
52	GL	502	GDP	C4-C5-N7	-2.51	106.69	110.67
50	MM	501	GTP	C5-C6-N1	2.51	119.65	113.25
50	TA	501	GTP	C5-C6-N1	2.51	119.65	113.25
50	GC	501	GTP	C8-N7-C5	2.51	108.74	104.26
50	GG	501	GTP	C5-C6-N1	2.51	119.65	113.25
50	WA	501	GTP	C8-N7-C5	2.51	108.73	104.26
50	PM	501	GTP	C5-C6-N1	2.51	119.65	113.25
50	MA	501	GTP	C5-C6-N1	2.51	119.65	113.25
50	CM	501	GTP	C8-N7-C5	2.51	108.73	104.26
52	QF	502	GDP	C4-C5-N7	-2.51	106.69	110.67
50	CO	501	GTP	C8-N7-C5	2.51	108.73	104.26
50	IA	501	GTP	C5-C6-N1	2.51	119.64	113.25
52	OP	502	GDP	C4-C5-N7	-2.51	106.69	110.67
50	DO	501	GTP	C8-N7-C5	2.51	108.73	104.26
52	IP	502	GDP	O3B-PB-O3A	2.51	113.05	104.64
50	EG	501	GTP	C8-N7-C5	2.51	108.73	104.26
52	CB	502	GDP	C4-C5-N7	-2.51	106.69	110.67
52	RN	502	GDP	C4-C5-N7	-2.51	106.69	110.67
50	NE	501	GTP	C5-C6-N1	2.51	119.64	113.25
50	HA	501	GTP	C5-C6-N1	2.51	119.64	113.25
52	OD	502	GDP	C4-C5-N7	-2.51	106.70	110.67
50	LO	501	GTP	C5-C6-N1	2.51	119.64	113.25
50	SE	501	GTP	C5-C6-N1	2.51	119.64	113.25
50	TG	501	GTP	C5-C6-N1	2.51	119.64	113.25
50	NA	501	GTP	C8-N7-C5	2.51	108.73	104.26
52	SN	502	GDP	C4-C5-N7	-2.51	106.70	110.67
50	CE	501	GTP	C5-C6-N1	2.51	119.63	113.25
50	SA	501	GTP	C5-C6-N1	2.51	119.63	113.25
52	FL	502	GDP	C4-C5-N7	-2.51	106.70	110.67
52	ID	502	GDP	C4-C5-N7	-2.51	106.70	110.67
50	UI	501	GTP	C8-N7-C5	2.51	108.72	104.26
50	WE	501	GTP	C8-N7-C5	2.51	108.72	104.26
50	JI	501	GTP	C8-N7-C5	2.51	108.72	104.26
50	TM	501	GTP	C8-N7-C5	2.51	108.72	104.26
50	MI	501	GTP	C5-C6-N1	2.50	119.63	113.25
50	BM	501	GTP	C8-N7-C5	2.50	108.72	104.26
50	MO	501	GTP	O6-C6-C5	-2.50	119.92	126.53
52	FF	502	GDP	C4-C5-N7	-2.50	106.70	110.67
50	AE	501	GTP	C8-N7-C5	2.50	108.72	104.26
50	UA	501	GTP	C5-C6-N1	2.50	119.62	113.25
50	VE	501	GTP	C5-C6-N1	2.50	119.62	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	LA	501	GTP	C8-N7-C5	2.50	108.72	104.26
50	FM	501	GTP	C5-C6-N1	2.50	119.62	113.25
50	RO	501	GTP	C8-N7-C5	2.50	108.72	104.26
50	JQ	501	GTP	C5-C6-N1	2.50	119.62	113.25
52	NH	502	GDP	C4-C5-N7	-2.50	106.71	110.67
50	WG	501	GTP	C8-N7-C5	2.50	108.72	104.26
50	KO	501	GTP	C8-N7-C5	2.50	108.71	104.26
50	OK	501	GTP	C8-N7-C5	2.50	108.71	104.26
50	SM	501	GTP	C5-C6-N1	2.50	119.62	113.25
52	GJ	502	GDP	C4-C5-N7	-2.50	106.71	110.67
50	SE	501	GTP	C8-N7-C5	2.50	108.71	104.26
50	NA	501	GTP	C5-C6-N1	2.50	119.61	113.25
50	VM	501	GTP	C5-C6-N1	2.50	119.61	113.25
50	AC	501	GTP	C8-N7-C5	2.50	108.71	104.26
50	WK	501	GTP	C8-N7-C5	2.50	108.71	104.26
50	RG	501	GTP	C8-N7-C5	2.50	108.71	104.26
52	KL	502	GDP	C4-C5-N7	-2.50	106.71	110.67
50	FE	501	GTP	C5-C6-N1	2.50	119.61	113.25
50	GM	501	GTP	C5-C6-N1	2.49	119.60	113.25
50	EE	501	GTP	C8-N7-C5	2.49	108.70	104.26
50	KK	501	GTP	C8-N7-C5	2.49	108.70	104.26
52	AJ	502	GDP	C4-C5-N7	-2.49	106.72	110.67
50	UK	501	GTP	C5-C6-N1	2.49	119.60	113.25
50	EA	501	GTP	C8-N7-C5	2.49	108.70	104.26
52	MF	502	GDP	C4-C5-N7	-2.49	106.72	110.67
50	HE	501	GTP	C5-C6-N1	2.49	119.60	113.25
50	TK	501	GTP	C8-N7-C5	2.49	108.70	104.26
50	CI	501	GTP	C5-C6-N1	2.49	119.60	113.25
50	MG	501	GTP	C5-C6-N1	2.49	119.60	113.25
50	UO	501	GTP	C5-C6-N1	2.49	119.60	113.25
50	FO	501	GTP	C8-N7-C5	2.49	108.70	104.26
52	FB	502	GDP	C4-C5-N7	-2.49	106.72	110.67
52	FH	502	GDP	C4-C5-N7	-2.49	106.72	110.67
50	UG	501	GTP	C5-C6-N1	2.49	119.59	113.25
50	PE	501	GTP	C8-N7-C5	2.49	108.70	104.26
50	TK	501	GTP	C5-C6-N1	2.49	119.59	113.25
50	MK	501	GTP	C8-N7-C5	2.49	108.70	104.26
50	UE	501	GTP	C8-N7-C5	2.49	108.70	104.26
50	II	501	GTP	O6-C6-C5	-2.49	119.96	126.53
50	LM	501	GTP	C8-N7-C5	2.49	108.69	104.26
50	LC	501	GTP	O6-C6-C5	-2.49	119.96	126.53
50	LG	501	GTP	O6-C6-C5	-2.49	119.96	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	VG	501	GTP	C5-C6-N1	2.49	119.59	113.25
50	QG	501	GTP	C8-N7-C5	2.49	108.69	104.26
50	NM	501	GTP	C5-C6-N1	2.49	119.58	113.25
50	BI	501	GTP	C8-N7-C5	2.48	108.69	104.26
50	DK	501	GTP	C8-N7-C5	2.48	108.69	104.26
50	GI	501	GTP	C5-C6-N1	2.48	119.58	113.25
50	JG	501	GTP	C5-C6-N1	2.48	119.58	113.25
50	OA	501	GTP	C5-C6-N1	2.48	119.58	113.25
50	VO	501	GTP	C5-C6-N1	2.48	119.58	113.25
50	UI	501	GTP	C5-C6-N1	2.48	119.58	113.25
50	NK	501	GTP	O6-C6-C5	-2.48	119.97	126.53
50	TM	501	GTP	C5-C6-N1	2.48	119.58	113.25
50	NC	501	GTP	C5-C6-N1	2.48	119.58	113.25
52	MD	502	GDP	C4-C5-N7	-2.48	106.73	110.67
52	RF	502	GDP	C4-C5-N7	-2.48	106.73	110.67
50	AG	501	GTP	O6-C6-C5	-2.48	119.98	126.53
50	FI	501	GTP	O6-C6-C5	-2.48	119.98	126.53
52	NF	502	GDP	C4-C5-N7	-2.48	106.74	110.67
50	GK	501	GTP	O6-C6-C5	-2.48	119.98	126.53
50	NA	501	GTP	O6-C6-C5	-2.48	119.98	126.53
50	SG	501	GTP	C5-C6-N1	2.48	119.57	113.25
50	WA	501	GTP	C5-C6-N1	2.48	119.57	113.25
52	DD	502	GDP	C4-C5-N7	-2.48	106.74	110.67
52	LL	502	GDP	C4-C5-N7	-2.48	106.74	110.67
50	WM	501	GTP	C8-N7-C5	2.48	108.68	104.26
50	PC	501	GTP	C5-C6-N1	2.48	119.56	113.25
50	MG	501	GTP	O6-C6-C5	-2.48	119.99	126.53
52	SB	502	GDP	C4-C5-N7	-2.48	106.74	110.67
50	HA	501	GTP	C8-N7-C5	2.48	108.67	104.26
52	NJ	502	GDP	C4-C5-N7	-2.48	106.75	110.67
52	RJ	502	GDP	C4-C5-N7	-2.48	106.75	110.67
50	OE	501	GTP	C5-C6-N1	2.48	119.56	113.25
52	QL	502	GDP	C4-C5-N7	-2.48	106.75	110.67
50	MI	501	GTP	C8-N7-C5	2.47	108.67	104.26
50	NO	501	GTP	O6-C6-C5	-2.47	120.00	126.53
50	DM	501	GTP	C8-N7-C5	2.47	108.67	104.26
52	LJ	502	GDP	C4-C5-N7	-2.47	106.75	110.67
50	NO	501	GTP	C8-N7-C5	2.47	108.67	104.26
50	KM	501	GTP	C8-N7-C5	2.47	108.67	104.26
50	UC	501	GTP	C5-C6-N1	2.47	119.55	113.25
52	FN	502	GDP	C4-C5-N7	-2.47	106.75	110.67
50	GK	501	GTP	C5-C6-N1	2.47	119.55	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	QD	502	GDP	C4-C5-N7	-2.47	106.75	110.67
50	IE	501	GTP	O6-C6-C5	-2.47	120.01	126.53
52	RD	502	GDP	C4-C5-N7	-2.47	106.75	110.67
52	RL	502	GDP	C4-C5-N7	-2.47	106.75	110.67
50	GE	501	GTP	C8-N7-C5	2.47	108.66	104.26
50	NG	501	GTP	C8-N7-C5	2.47	108.66	104.26
50	FK	501	GTP	C8-N7-C5	2.47	108.66	104.26
50	LE	501	GTP	C8-N7-C5	2.47	108.66	104.26
50	IO	501	GTP	C5-C6-N1	2.47	119.54	113.25
50	FE	501	GTP	C8-N7-C5	2.47	108.66	104.26
50	MC	501	GTP	C5-C6-N1	2.47	119.53	113.25
50	FA	501	GTP	C8-N7-C5	2.47	108.66	104.26
50	LO	501	GTP	C8-N7-C5	2.47	108.66	104.26
52	GB	502	GDP	C4-C5-N7	-2.47	106.76	110.67
50	CK	501	GTP	O6-C6-C5	-2.47	120.02	126.53
50	TG	501	GTP	C8-N7-C5	2.46	108.65	104.26
50	VI	501	GTP	C8-N7-C5	2.46	108.65	104.26
52	SD	502	GDP	C4-C5-N7	-2.46	106.77	110.67
52	GH	502	GDP	C4-C5-N7	-2.46	106.77	110.67
50	MO	501	GTP	C8-N7-C5	2.46	108.65	104.26
50	NC	501	GTP	C8-N7-C5	2.46	108.65	104.26
50	NE	501	GTP	O6-C6-C5	-2.46	120.03	126.53
50	FC	501	GTP	C8-N7-C5	2.46	108.64	104.26
50	IC	501	GTP	C5-C6-N1	2.46	119.52	113.25
50	HG	501	GTP	C8-N7-C5	2.46	108.64	104.26
50	OG	501	GTP	O6-C6-C5	-2.46	120.04	126.53
50	SC	501	GTP	C5-C6-N1	2.46	119.51	113.25
52	QB	502	GDP	C4-C5-N7	-2.46	106.77	110.67
50	SI	501	GTP	C5-C6-N1	2.46	119.51	113.25
50	HK	501	GTP	C8-N7-C5	2.46	108.64	104.26
50	MA	501	GTP	C8-N7-C5	2.46	108.64	104.26
50	LK	501	GTP	C8-N7-C5	2.46	108.63	104.26
50	OI	501	GTP	C8-N7-C5	2.45	108.63	104.26
50	AO	501	GTP	O6-C6-C5	-2.45	120.06	126.53
50	NC	501	GTP	O6-C6-C5	-2.45	120.06	126.53
50	OM	501	GTP	C5-C6-N1	2.45	119.49	113.25
50	HC	501	GTP	O6-C6-C5	-2.45	120.06	126.53
50	LA	501	GTP	O6-C6-C5	-2.45	120.06	126.53
50	NI	501	GTP	O6-C6-C5	-2.45	120.06	126.53
50	KC	501	GTP	O6-C6-C5	-2.45	120.07	126.53
52	AL	502	GDP	C4-C5-N7	-2.45	106.79	110.67
50	LC	501	GTP	C8-N7-C5	2.45	108.62	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	FD	502	GDP	C4-C5-N7	-2.45	106.79	110.67
50	QO	501	GTP	C2-N1-C6	-2.45	120.67	125.11
50	MI	501	GTP	O6-C6-C5	-2.45	120.08	126.53
50	FM	501	GTP	C8-N7-C5	2.45	108.62	104.26
50	TC	501	GTP	C8-N7-C5	2.45	108.62	104.26
50	KG	501	GTP	O6-C6-C5	-2.44	120.08	126.53
50	GE	501	GTP	C5-C6-N1	2.44	119.47	113.25
50	GM	501	GTP	C8-N7-C5	2.44	108.61	104.26
50	OO	501	GTP	C5-C6-N1	2.44	119.47	113.25
50	AK	501	GTP	O6-C6-C5	-2.44	120.09	126.53
50	SI	501	GTP	C8-N7-C5	2.44	108.61	104.26
50	KG	501	GTP	C8-N7-C5	2.44	108.61	104.26
50	SC	501	GTP	O6-C6-C5	-2.44	120.09	126.53
50	KA	501	GTP	C8-N7-C5	2.44	108.61	104.26
50	MC	501	GTP	C8-N7-C5	2.44	108.61	104.26
52	IP	502	GDP	C4-C5-N7	-2.44	106.81	110.67
52	LH	502	GDP	O6-C6-C5	-2.44	120.10	126.53
50	NE	501	GTP	C8-N7-C5	2.44	108.60	104.26
50	FM	501	GTP	O6-C6-C5	-2.44	120.10	126.53
50	OM	501	GTP	C8-N7-C5	2.44	108.60	104.26
50	LK	501	GTP	O6-C6-C5	-2.44	120.10	126.53
50	KG	501	GTP	C3'-C2'-C1'	2.44	106.07	101.46
50	LE	501	GTP	O6-C6-C5	-2.43	120.11	126.53
50	RI	501	GTP	O6-C6-C5	-2.43	120.11	126.53
50	LM	501	GTP	O6-C6-C5	-2.43	120.11	126.53
50	UK	501	GTP	C8-N7-C5	2.43	108.59	104.26
50	SC	501	GTP	C8-N7-C5	2.43	108.59	104.26
52	NN	502	GDP	C4-C5-N7	-2.43	106.82	110.67
50	BM	501	GTP	O6-C6-C5	-2.43	120.11	126.53
50	HK	501	GTP	O6-C6-C5	-2.43	120.11	126.53
50	MK	501	GTP	O6-C6-C5	-2.43	120.12	126.53
50	BG	501	GTP	O6-C6-C5	-2.43	120.12	126.53
50	SK	501	GTP	O6-C6-C5	-2.43	120.12	126.53
50	HM	501	GTP	O6-C6-C5	-2.43	120.12	126.53
50	FI	501	GTP	C8-N7-C5	2.43	108.58	104.26
50	DI	501	GTP	O6-C6-C5	-2.43	120.13	126.53
52	KP	502	GDP	C4-C5-N7	-2.43	106.83	110.67
52	LD	502	GDP	C4-C5-N7	-2.43	106.83	110.67
50	JK	501	GTP	C8-N7-C5	2.42	108.58	104.26
50	LG	501	GTP	C8-N7-C5	2.42	108.58	104.26
50	LI	501	GTP	O6-C6-C5	-2.42	120.13	126.53
52	KD	502	GDP	C4-C5-N7	-2.42	106.83	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	LO	501	GTP	O6-C6-C5	-2.42	120.14	126.53
50	KC	501	GTP	C8-N7-C5	2.42	108.58	104.26
52	KJ	502	GDP	O6-C6-C5	-2.42	120.14	126.53
50	NM	501	GTP	O6-C6-C5	-2.42	120.15	126.53
50	EM	501	GTP	O6-C6-C5	-2.42	120.15	126.53
50	GA	501	GTP	O6-C6-C5	-2.42	120.15	126.53
50	HI	501	GTP	O6-C6-C5	-2.42	120.15	126.53
50	IM	501	GTP	O6-C6-C5	-2.42	120.15	126.53
50	MG	501	GTP	C8-N7-C5	2.42	108.56	104.26
50	HG	501	GTP	O6-C6-C5	-2.42	120.15	126.53
50	IA	501	GTP	O6-C6-C5	-2.42	120.15	126.53
50	KA	501	GTP	O6-C6-C5	-2.42	120.16	126.53
50	JI	501	GTP	O6-C6-C5	-2.42	120.16	126.53
50	FG	501	GTP	O6-C6-C5	-2.41	120.16	126.53
50	CC	501	GTP	O6-C6-C5	-2.41	120.16	126.53
50	MM	501	GTP	O6-C6-C5	-2.41	120.16	126.53
50	RG	501	GTP	O6-C6-C5	-2.41	120.16	126.53
50	TK	501	GTP	O6-C6-C5	-2.41	120.17	126.53
50	HO	501	GTP	N9-C8-N7	-2.41	108.93	113.40
50	DE	501	GTP	O6-C6-C5	-2.41	120.17	126.53
50	FC	501	GTP	O6-C6-C5	-2.41	120.17	126.53
50	II	501	GTP	C5-C6-N1	2.41	119.39	113.25
50	GI	501	GTP	O6-C6-C5	-2.41	120.17	126.53
50	OO	501	GTP	O6-C6-C5	-2.41	120.18	126.53
50	CM	501	GTP	O6-C6-C5	-2.41	120.18	126.53
50	KM	501	GTP	O6-C6-C5	-2.41	120.18	126.53
52	SL	502	GDP	C4-C5-N7	-2.41	106.86	110.67
50	AI	501	GTP	O6-C6-C5	-2.41	120.18	126.53
50	KO	501	GTP	O6-C6-C5	-2.41	120.18	126.53
50	TA	501	GTP	O6-C6-C5	-2.41	120.18	126.53
50	DQ	501	GTP	O6-C6-C5	-2.40	120.19	126.53
50	VA	501	GTP	O6-C6-C5	-2.40	120.19	126.53
50	EG	501	GTP	O6-C6-C5	-2.40	120.19	126.53
52	OL	502	GDP	C4-C5-N7	-2.40	106.86	110.67
50	AA	501	GTP	O6-C6-C5	-2.40	120.19	126.53
50	MM	501	GTP	C8-N7-C5	2.40	108.54	104.26
50	UA	501	GTP	O6-C6-C5	-2.40	120.19	126.53
50	FE	501	GTP	O6-C6-C5	-2.40	120.19	126.53
50	FK	501	GTP	O6-C6-C5	-2.40	120.19	126.53
50	CI	501	GTP	O6-C6-C5	-2.40	120.19	126.53
50	WI	501	GTP	O6-C6-C5	-2.40	120.19	126.53
50	TM	501	GTP	O6-C6-C5	-2.40	120.20	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	SK	501	GTP	C8-N7-C5	2.40	108.54	104.26
50	EI	501	GTP	O6-C6-C5	-2.40	120.20	126.53
50	SI	501	GTP	O6-C6-C5	-2.40	120.20	126.53
50	EA	501	GTP	O6-C6-C5	-2.40	120.20	126.53
50	RM	501	GTP	O6-C6-C5	-2.40	120.20	126.53
50	GK	501	GTP	C8-N7-C5	2.40	108.53	104.26
52	NJ	502	GDP	C3'-C2'-C1'	2.40	106.00	101.46
52	JH	502	GDP	C4-C5-N7	-2.40	106.87	110.67
50	DM	501	GTP	O6-C6-C5	-2.40	120.20	126.53
50	DO	501	GTP	O6-C6-C5	-2.40	120.20	126.53
50	FG	501	GTP	C8-N7-C5	2.40	108.53	104.26
50	HO	501	GTP	O6-C6-C5	-2.40	120.21	126.53
50	OK	501	GTP	O6-C6-C5	-2.39	120.22	126.53
50	DK	501	GTP	O6-C6-C5	-2.39	120.22	126.53
50	GE	501	GTP	O6-C6-C5	-2.39	120.22	126.53
52	KF	502	GDP	O6-C6-C5	-2.39	120.22	126.53
50	QO	501	GTP	C5-C6-N1	2.39	119.34	113.25
52	KB	502	GDP	C4-C5-N7	-2.39	106.88	110.67
52	RH	502	GDP	C4-C5-N7	-2.39	106.88	110.67
52	QP	502	GDP	C4-C5-N7	-2.39	106.88	110.67
50	TC	501	GTP	O6-C6-C5	-2.39	120.23	126.53
50	QO	501	GTP	N9-C4-N3	2.39	130.73	125.95
50	JK	501	GTP	N9-C8-N7	-2.39	108.97	113.40
50	WA	501	GTP	O6-C6-C5	-2.39	120.23	126.53
50	TI	501	GTP	O6-C6-C5	-2.39	120.23	126.53
52	KJ	502	GDP	C4-C5-N7	-2.39	106.89	110.67
50	UM	501	GTP	O6-C6-C5	-2.39	120.24	126.53
50	NI	501	GTP	C8-N7-C5	2.39	108.51	104.26
52	AD	502	GDP	C4-C5-N7	-2.38	106.89	110.67
50	IE	501	GTP	C2'-C1'-N9	-2.38	106.61	113.25
50	CO	501	GTP	O6-C6-C5	-2.38	120.25	126.53
50	HO	501	GTP	C8-N7-C5	2.38	108.50	104.26
50	EE	501	GTP	O6-C6-C5	-2.38	120.26	126.53
50	JE	501	GTP	O6-C6-C5	-2.38	120.26	126.53
50	UG	501	GTP	O6-C6-C5	-2.38	120.26	126.53
50	OA	501	GTP	O6-C6-C5	-2.37	120.26	126.53
50	EK	501	GTP	O6-C6-C5	-2.37	120.27	126.53
50	RC	501	GTP	O6-C6-C5	-2.37	120.27	126.53
50	UO	501	GTP	O6-C6-C5	-2.37	120.27	126.53
50	UK	501	GTP	O6-C6-C5	-2.37	120.27	126.53
50	VM	501	GTP	O6-C6-C5	-2.37	120.27	126.53
50	VO	501	GTP	O6-C6-C5	-2.37	120.27	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	WM	501	GTP	O6-C6-C5	-2.37	120.27	126.53
50	GM	501	GTP	O6-C6-C5	-2.37	120.28	126.53
50	RK	501	GTP	O6-C6-C5	-2.37	120.28	126.53
50	SE	501	GTP	O6-C6-C5	-2.37	120.28	126.53
50	AK	501	GTP	C8-N7-C5	2.37	108.48	104.26
50	VC	501	GTP	O6-C6-C5	-2.37	120.28	126.53
50	FA	501	GTP	O6-C6-C5	-2.37	120.28	126.53
50	HE	501	GTP	O6-C6-C5	-2.37	120.28	126.53
52	QP	502	GDP	O6-C6-C5	-2.37	120.28	126.53
50	KI	501	GTP	C8-N7-C5	2.37	108.48	104.26
50	UC	501	GTP	O6-C6-C5	-2.37	120.28	126.53
52	SJ	502	GDP	C4-C5-N7	-2.37	106.92	110.67
50	CG	501	GTP	O6-C6-C5	-2.36	120.29	126.53
50	BK	501	GTP	O6-C6-C5	-2.36	120.29	126.53
50	CE	501	GTP	O6-C6-C5	-2.36	120.29	126.53
52	LH	502	GDP	C4-C5-N7	-2.36	106.92	110.67
52	SH	502	GDP	C4-C5-N7	-2.36	106.92	110.67
50	TE	501	GTP	O6-C6-C5	-2.36	120.30	126.53
50	HA	501	GTP	O6-C6-C5	-2.36	120.30	126.53
50	QM	501	GTP	O6-C6-C5	-2.36	120.30	126.53
50	SA	501	GTP	O6-C6-C5	-2.36	120.30	126.53
50	KK	501	GTP	O6-C6-C5	-2.36	120.30	126.53
50	ME	501	GTP	C3'-C2'-C1'	2.36	105.93	101.46
50	UI	501	GTP	O6-C6-C5	-2.36	120.31	126.53
50	WE	501	GTP	O6-C6-C5	-2.36	120.31	126.53
52	NP	502	GDP	C3'-C2'-C1'	2.36	105.92	101.46
50	MA	501	GTP	O6-C6-C5	-2.36	120.31	126.53
50	EO	501	GTP	O6-C6-C5	-2.35	120.32	126.53
50	AM	501	GTP	O6-C6-C5	-2.35	120.32	126.53
50	DC	501	GTP	O6-C6-C5	-2.35	120.32	126.53
50	IK	501	GTP	O6-C6-C5	-2.35	120.32	126.53
50	DG	501	GTP	O6-C6-C5	-2.35	120.33	126.53
50	EC	501	GTP	O6-C6-C5	-2.35	120.33	126.53
52	UF	502	GDP	C3'-C2'-C1'	2.35	105.91	101.46
50	OM	501	GTP	O6-C6-C5	-2.35	120.34	126.53
50	RO	501	GTP	O6-C6-C5	-2.35	120.34	126.53
52	ID	502	GDP	C3'-C2'-C1'	2.34	105.89	101.46
50	KE	501	GTP	C8-N7-C5	2.34	108.43	104.26
52	KF	502	GDP	C4-C5-N7	-2.34	106.96	110.67
50	QE	501	GTP	O6-C6-C5	-2.34	120.35	126.53
50	TG	501	GTP	O6-C6-C5	-2.34	120.36	126.53
50	SM	501	GTP	O6-C6-C5	-2.34	120.36	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	VK	501	GTP	O6-C6-C5	-2.34	120.36	126.53
52	SF	502	GDP	O6-C6-C5	-2.34	120.36	126.53
50	CQ	501	GTP	O6-C6-C5	-2.34	120.37	126.53
52	UB	502	GDP	C3'-C2'-C1'	2.34	105.88	101.46
50	WO	501	GTP	O6-C6-C5	-2.33	120.37	126.53
52	QB	502	GDP	C3'-C2'-C1'	2.33	105.87	101.46
52	LD	502	GDP	O6-C6-C5	-2.33	120.38	126.53
50	FO	501	GTP	O6-C6-C5	-2.33	120.38	126.53
50	JQ	501	GTP	O6-C6-C5	-2.33	120.39	126.53
50	RE	501	GTP	O6-C6-C5	-2.32	120.40	126.53
52	KH	502	GDP	C4-C5-N7	-2.32	106.99	110.67
50	IC	501	GTP	O6-C6-C5	-2.32	120.40	126.53
50	JK	501	GTP	O6-C6-C5	-2.32	120.40	126.53
50	VG	501	GTP	O6-C6-C5	-2.32	120.41	126.53
50	PI	501	GTP	O6-C6-C5	-2.32	120.41	126.53
52	SF	502	GDP	C4-C5-N7	-2.32	107.00	110.67
50	WG	501	GTP	O6-C6-C5	-2.32	120.41	126.53
50	JC	501	GTP	O6-C6-C5	-2.32	120.41	126.53
52	OJ	502	GDP	C5-C6-N1	2.32	119.15	113.25
52	FL	502	GDP	C3'-C2'-C1'	2.32	105.84	101.46
50	QK	501	GTP	O6-C6-C5	-2.31	120.43	126.53
52	LL	502	GDP	O6-C6-C5	-2.31	120.43	126.53
50	II	501	GTP	C8-N7-C5	2.31	108.38	104.26
50	QC	501	GTP	O6-C6-C5	-2.31	120.43	126.53
50	VE	501	GTP	O6-C6-C5	-2.31	120.43	126.53
52	GJ	502	GDP	O3B-PB-O3A	2.31	112.37	104.64
52	PB	502	GDP	C3'-C2'-C1'	2.31	105.82	101.46
50	KE	501	GTP	O2B-PB-O3A	2.30	113.50	107.27
52	NB	502	GDP	C3'-C2'-C1'	2.30	105.82	101.46
50	WC	501	GTP	O6-C6-C5	-2.30	120.46	126.53
52	WL	502	GDP	C3'-C2'-C1'	2.30	105.82	101.46
50	OC	501	GTP	O6-C6-C5	-2.30	120.46	126.53
50	ME	501	GTP	O6-C6-C5	-2.30	120.47	126.53
50	UE	501	GTP	O6-C6-C5	-2.30	120.47	126.53
52	KB	502	GDP	O6-C6-C5	-2.30	120.47	126.53
52	OL	502	GDP	O6-C6-C5	-2.30	120.47	126.53
52	NH	502	GDP	C3'-C2'-C1'	2.30	105.81	101.46
52	WP	502	GDP	C3'-C2'-C1'	2.30	105.81	101.46
52	MF	502	GDP	C3'-C2'-C1'	2.29	105.80	101.46
50	IO	501	GTP	O6-C6-C5	-2.29	120.48	126.53
50	PM	501	GTP	O6-C6-C5	-2.29	120.48	126.53
52	NF	502	GDP	C3'-C2'-C1'	2.29	105.80	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	PE	501	GTP	O6-C6-C5	-2.29	120.49	126.53
52	MN	502	GDP	C3'-C2'-C1'	2.29	105.80	101.46
50	WK	501	GTP	O6-C6-C5	-2.29	120.49	126.53
52	DD	502	GDP	O6-C6-C5	-2.28	120.50	126.53
52	SF	502	GDP	C3'-C2'-C1'	2.28	105.78	101.46
50	JM	501	GTP	O6-C6-C5	-2.28	120.51	126.53
52	SN	502	GDP	C3'-C2'-C1'	2.28	105.77	101.46
52	WD	502	GDP	C3'-C2'-C1'	2.28	105.77	101.46
52	RP	502	GDP	C3'-C2'-C1'	2.28	105.77	101.46
50	SG	501	GTP	O6-C6-C5	-2.28	120.52	126.53
50	IG	501	GTP	O6-C6-C5	-2.28	120.52	126.53
50	QI	501	GTP	O6-C6-C5	-2.28	120.53	126.53
50	PG	501	GTP	N9-C4-N3	2.27	130.50	125.95
50	OE	501	GTP	O6-C6-C5	-2.27	120.54	126.53
52	AP	502	GDP	C3'-C2'-C1'	2.27	105.75	101.46
52	AL	502	GDP	C3'-C2'-C1'	2.27	105.75	101.46
50	PC	501	GTP	O6-C6-C5	-2.27	120.55	126.53
50	KE	501	GTP	O2A-PA-O3A	2.26	113.39	107.27
52	GB	502	GDP	C2'-C3'-C4'	2.26	106.98	102.61
52	OP	502	GDP	O6-C6-C5	-2.26	120.56	126.53
50	PK	501	GTP	O6-C6-C5	-2.26	120.56	126.53
50	GO	501	GTP	O6-C6-C5	-2.26	120.57	126.53
52	VB	502	GDP	C3'-C2'-C1'	2.26	105.73	101.46
50	II	501	GTP	N9-C8-N7	-2.26	109.22	113.40
52	NF	502	GDP	O6-C6-C5	-2.25	120.59	126.53
52	UN	502	GDP	C3'-C2'-C1'	2.25	105.72	101.46
50	JG	501	GTP	O6-C6-C5	-2.25	120.59	126.53
52	QB	502	GDP	O6-C6-C5	-2.25	120.60	126.53
50	QO	501	GTP	C4-C5-N7	-2.25	107.11	110.67
50	GC	501	GTP	O6-C6-C5	-2.24	120.61	126.53
52	TB	502	GDP	O2B-PB-O3A	2.24	112.16	104.64
52	MJ	502	GDP	C3'-C2'-C1'	2.24	105.70	101.46
52	GH	502	GDP	O6-C6-C5	-2.24	120.62	126.53
52	AD	502	GDP	C3'-C2'-C1'	2.24	105.69	101.46
52	NN	502	GDP	C3'-C2'-C1'	2.23	105.69	101.46
52	FN	502	GDP	O6-C6-C5	-2.23	120.64	126.53
52	WH	502	GDP	C3'-C2'-C1'	2.23	105.69	101.46
52	PP	502	GDP	C3'-C2'-C1'	2.23	105.69	101.46
50	OI	501	GTP	O6-C6-C5	-2.23	120.64	126.53
52	OD	502	GDP	O6-C6-C5	-2.23	120.64	126.53
52	OF	502	GDP	C3'-C2'-C1'	2.23	105.68	101.46
50	BC	501	GTP	O6-C6-C5	-2.23	120.65	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	SD	502	GDP	O6-C6-C5	-2.23	120.65	126.53
52	FN	502	GDP	C3'-C2'-C1'	2.23	105.68	101.46
52	RH	502	GDP	O6-C6-C5	-2.22	120.67	126.53
52	PF	502	GDP	C3'-C2'-C1'	2.22	105.67	101.46
52	LH	502	GDP	C2'-C3'-C4'	2.22	106.90	102.61
52	VL	502	GDP	C3'-C2'-C1'	2.22	105.66	101.46
50	PO	501	GTP	O6-C6-C5	-2.21	120.69	126.53
52	SB	502	GDP	C3'-C2'-C1'	2.21	105.65	101.46
52	UD	502	GDP	C3'-C2'-C1'	2.21	105.64	101.46
52	RJ	502	GDP	O6-C6-C5	-2.21	120.70	126.53
52	EB	502	GDP	C2'-C3'-C4'	2.21	106.87	102.61
52	FF	502	GDP	O6-C6-C5	-2.21	120.71	126.53
52	AL	502	GDP	O6-C6-C5	-2.21	120.71	126.53
52	GL	502	GDP	O6-C6-C5	-2.21	120.71	126.53
50	PG	501	GTP	O6-C6-C5	-2.21	120.71	126.53
52	RN	502	GDP	O6-C6-C5	-2.20	120.71	126.53
52	RD	502	GDP	O6-C6-C5	-2.20	120.71	126.53
52	CN	502	GDP	C3'-C2'-C1'	2.20	105.63	101.46
52	CD	502	GDP	O6-C6-C5	-2.20	120.72	126.53
52	DN	502	GDP	C3'-C2'-C1'	2.20	105.62	101.46
50	IC	501	GTP	C3'-C2'-C1'	2.20	105.62	101.46
52	KP	502	GDP	O6-C6-C5	-2.20	120.73	126.53
52	QL	502	GDP	O6-C6-C5	-2.20	120.74	126.53
52	TL	502	GDP	C3'-C2'-C1'	2.19	105.61	101.46
52	ON	502	GDP	C2'-C3'-C4'	2.19	106.84	102.61
52	FH	502	GDP	O6-C6-C5	-2.19	120.75	126.53
52	DB	502	GDP	O6-C6-C5	-2.19	120.75	126.53
52	LJ	502	GDP	O6-C6-C5	-2.19	120.76	126.53
52	CB	502	GDP	C3'-C2'-C1'	2.19	105.60	101.46
52	BP	502	GDP	O6-C6-C5	-2.19	120.76	126.53
50	EK	501	GTP	C3'-C2'-C1'	2.19	105.60	101.46
50	VI	501	GTP	C3'-C2'-C1'	2.19	105.60	101.46
50	PG	501	GTP	C4-C5-N7	-2.19	107.21	110.67
52	BF	502	GDP	C3'-C2'-C1'	2.18	105.60	101.46
52	KN	502	GDP	O6-C6-C5	-2.18	120.77	126.53
50	HO	501	GTP	O3G-PG-O3B	2.18	111.94	104.64
52	RF	502	GDP	O6-C6-C5	-2.18	120.79	126.53
52	SJ	502	GDP	O6-C6-C5	-2.18	120.79	126.53
52	TN	502	GDP	C3'-C2'-C1'	2.17	105.58	101.46
52	AN	502	GDP	O6-C6-C5	-2.17	120.79	126.53
50	GG	501	GTP	C3'-C2'-C1'	2.17	105.57	101.46
52	AH	502	GDP	O6-C6-C5	-2.17	120.81	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	SL	502	GDP	O6-C6-C5	-2.17	120.81	126.53
52	KD	502	GDP	O6-C6-C5	-2.17	120.81	126.53
50	IE	501	GTP	C3'-C2'-C1'	2.17	105.56	101.46
52	MD	502	GDP	O6-C6-C5	-2.17	120.81	126.53
52	NP	502	GDP	O6-C6-C5	-2.17	120.81	126.53
52	GD	502	GDP	C4-C5-N7	-2.17	107.24	110.67
50	IG	501	GTP	C3'-C2'-C1'	2.16	105.56	101.46
52	PD	502	GDP	C3'-C2'-C1'	2.16	105.56	101.46
52	BN	502	GDP	C3'-C2'-C1'	2.16	105.56	101.46
52	RL	502	GDP	O6-C6-C5	-2.16	120.83	126.53
50	EI	501	GTP	C3'-C2'-C1'	2.16	105.55	101.46
52	UH	502	GDP	C3'-C2'-C1'	2.16	105.54	101.46
50	OM	501	GTP	C3'-C2'-C1'	2.15	105.54	101.46
52	SN	502	GDP	O6-C6-C5	-2.15	120.85	126.53
52	AD	502	GDP	O6-C6-C5	-2.15	120.85	126.53
52	HN	502	GDP	O6-C6-C5	-2.15	120.85	126.53
52	OH	502	GDP	C3'-C2'-C1'	2.15	105.53	101.46
52	FB	502	GDP	O6-C6-C5	-2.15	120.86	126.53
52	FJ	502	GDP	O6-C6-C5	-2.15	120.86	126.53
52	FL	502	GDP	O6-C6-C5	-2.15	120.86	126.53
52	SL	502	GDP	C3'-C2'-C1'	2.15	105.53	101.46
52	GB	502	GDP	O6-C6-C5	-2.15	120.87	126.53
52	LB	502	GDP	O6-C6-C5	-2.15	120.87	126.53
52	LF	502	GDP	O6-C6-C5	-2.14	120.87	126.53
52	IB	502	GDP	C3'-C2'-C1'	2.14	105.52	101.46
52	ND	502	GDP	C3'-C2'-C1'	2.14	105.52	101.46
52	OP	502	GDP	C3'-C2'-C1'	2.14	105.52	101.46
52	GJ	502	GDP	O6-C6-C5	-2.14	120.88	126.53
52	HF	502	GDP	O6-C6-C5	-2.14	120.89	126.53
52	RP	502	GDP	O6-C6-C5	-2.14	120.89	126.53
52	TF	502	GDP	C3'-C2'-C1'	2.14	105.51	101.46
52	QD	502	GDP	C3'-C2'-C1'	2.14	105.50	101.46
52	GN	502	GDP	C3'-C2'-C1'	2.14	105.50	101.46
52	NH	502	GDP	O6-C6-C5	-2.14	120.89	126.53
50	NC	501	GTP	C3'-C2'-C1'	2.14	105.50	101.46
52	GN	502	GDP	O6-C6-C5	-2.13	120.90	126.53
52	OJ	502	GDP	C2'-C3'-C4'	2.13	106.73	102.61
52	DJ	502	GDP	C3'-C2'-C1'	2.13	105.50	101.46
52	PJ	502	GDP	C3'-C2'-C1'	2.13	105.50	101.46
52	ND	502	GDP	O6-C6-C5	-2.13	120.90	126.53
52	OF	502	GDP	O6-C6-C5	-2.13	120.90	126.53
52	KJ	502	GDP	C3'-C2'-C1'	2.13	105.50	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	FD	502	GDP	O6-C6-C5	-2.13	120.91	126.53
52	CF	502	GDP	O6-C6-C5	-2.13	120.91	126.53
50	FC	501	GTP	C3'-C2'-C1'	2.13	105.49	101.46
52	AB	502	GDP	C3'-C2'-C1'	2.13	105.49	101.46
52	CJ	502	GDP	O6-C6-C5	-2.13	120.91	126.53
50	OA	501	GTP	C3'-C2'-C1'	2.13	105.49	101.46
52	HJ	502	GDP	O6-C6-C5	-2.13	120.92	126.53
52	SB	502	GDP	O6-C6-C5	-2.13	120.92	126.53
50	PG	501	GTP	N2-C2-N1	2.13	121.25	116.76
50	QE	501	GTP	C3'-C2'-C1'	2.13	105.48	101.46
52	GL	502	GDP	C3'-C2'-C1'	2.13	105.48	101.46
52	RH	502	GDP	C3'-C2'-C1'	2.12	105.48	101.46
50	EE	501	GTP	C3'-C2'-C1'	2.12	105.48	101.46
52	BB	502	GDP	C3'-C2'-C1'	2.12	105.48	101.46
52	AN	502	GDP	C3'-C2'-C1'	2.12	105.48	101.46
52	EL	502	GDP	O6-C6-C5	-2.12	120.93	126.53
52	VJ	502	GDP	C3'-C2'-C1'	2.12	105.47	101.46
50	CK	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
52	BJ	502	GDP	C3'-C2'-C1'	2.12	105.47	101.46
52	QN	502	GDP	C3'-C2'-C1'	2.12	105.47	101.46
52	UJ	502	GDP	C3'-C2'-C1'	2.12	105.47	101.46
52	BF	502	GDP	O6-C6-C5	-2.12	120.94	126.53
52	MJ	502	GDP	O6-C6-C5	-2.12	120.94	126.53
52	UL	502	GDP	C3'-C2'-C1'	2.12	105.47	101.46
52	AJ	502	GDP	O6-C6-C5	-2.12	120.94	126.53
50	UK	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
52	BD	502	GDP	C3'-C2'-C1'	2.12	105.47	101.46
50	VI	501	GTP	O6-C6-C5	-2.12	120.94	126.53
52	SH	502	GDP	O6-C6-C5	-2.12	120.94	126.53
50	PI	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
52	LN	502	GDP	O6-C6-C5	-2.12	120.95	126.53
50	GE	501	GTP	C3'-C2'-C1'	2.12	105.46	101.46
50	IA	501	GTP	C3'-C2'-C1'	2.12	105.46	101.46
50	QO	501	GTP	C6-C5-N7	2.11	134.14	130.29
52	AB	502	GDP	O6-C6-C5	-2.11	120.95	126.53
50	OI	501	GTP	C3'-C2'-C1'	2.11	105.46	101.46
50	WE	501	GTP	C3'-C2'-C1'	2.11	105.46	101.46
50	OO	501	GTP	C3'-C2'-C1'	2.11	105.46	101.46
52	KH	502	GDP	O6-C6-C5	-2.11	120.96	126.53
52	TH	502	GDP	C3'-C2'-C1'	2.11	105.45	101.46
52	WB	502	GDP	C3'-C2'-C1'	2.11	105.45	101.46
52	HP	502	GDP	O6-C6-C5	-2.11	120.96	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	MP	502	GDP	O6-C6-C5	-2.11	120.96	126.53
52	NL	502	GDP	O6-C6-C5	-2.11	120.96	126.53
50	VC	501	GTP	C3'-C2'-C1'	2.11	105.45	101.46
52	JH	502	GDP	C3'-C2'-C1'	2.11	105.45	101.46
52	CL	502	GDP	O6-C6-C5	-2.11	120.97	126.53
52	QD	502	GDP	O6-C6-C5	-2.11	120.97	126.53
52	IP	502	GDP	O6-C6-C5	-2.11	120.97	126.53
50	OC	501	GTP	C3'-C2'-C1'	2.11	105.45	101.46
50	WK	501	GTP	C3'-C2'-C1'	2.11	105.44	101.46
50	VA	501	GTP	C3'-C2'-C1'	2.10	105.44	101.46
52	HL	502	GDP	O6-C6-C5	-2.10	120.98	126.53
52	MF	502	GDP	O6-C6-C5	-2.10	120.98	126.53
50	OG	501	GTP	C3'-C2'-C1'	2.10	105.44	101.46
52	ED	502	GDP	C3'-C2'-C1'	2.10	105.44	101.46
52	QF	502	GDP	O6-C6-C5	-2.10	120.99	126.53
50	UG	501	GTP	C3'-C2'-C1'	2.10	105.44	101.46
52	OJ	502	GDP	C4-C5-N7	-2.10	107.34	110.67
50	UC	501	GTP	C3'-C2'-C1'	2.10	105.44	101.46
52	AF	502	GDP	O6-C6-C5	-2.10	120.99	126.53
50	GG	501	GTP	O6-C6-C5	-2.10	120.99	126.53
52	ML	502	GDP	O6-C6-C5	-2.10	120.99	126.53
50	EA	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
50	VE	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
52	VH	502	GDP	C3'-C2'-C1'	2.10	105.43	101.46
52	BH	502	GDP	O6-C6-C5	-2.10	120.99	126.53
52	BJ	502	GDP	O6-C6-C5	-2.10	120.99	126.53
52	DL	502	GDP	C2'-C3'-C4'	2.10	106.66	102.61
50	QO	501	GTP	C2'-C1'-N9	-2.10	107.41	113.25
52	TJ	502	GDP	C3'-C2'-C1'	2.10	105.43	101.46
52	GF	502	GDP	C2'-C3'-C4'	2.10	106.66	102.61
52	MH	502	GDP	O6-C6-C5	-2.10	121.00	126.53
52	NB	502	GDP	O6-C6-C5	-2.09	121.00	126.53
52	MP	502	GDP	C3'-C2'-C1'	2.09	105.42	101.46
52	QH	502	GDP	O6-C6-C5	-2.09	121.01	126.53
52	TF	502	GDP	O6-C6-C5	-2.09	121.01	126.53
52	WL	502	GDP	O6-C6-C5	-2.09	121.01	126.53
52	HH	502	GDP	O6-C6-C5	-2.09	121.01	126.53
52	LP	502	GDP	O6-C6-C5	-2.09	121.01	126.53
50	UO	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
52	TD	502	GDP	O6-C6-C5	-2.09	121.03	126.53
52	SJ	502	GDP	C3'-C2'-C1'	2.09	105.41	101.46
52	SD	502	GDP	C3'-C2'-C1'	2.09	105.41	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	NJ	502	GDP	O6-C6-C5	-2.09	121.03	126.53
50	WO	501	GTP	C3'-C2'-C1'	2.08	105.41	101.46
52	QN	502	GDP	O6-C6-C5	-2.08	121.03	126.53
50	DC	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
50	OE	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
52	IH	502	GDP	O6-C6-C5	-2.08	121.04	126.53
50	MC	501	GTP	O6-C6-C5	-2.08	121.04	126.53
52	MN	502	GDP	O6-C6-C5	-2.08	121.04	126.53
52	TD	502	GDP	C3'-C2'-C1'	2.08	105.40	101.46
52	UL	502	GDP	O6-C6-C5	-2.08	121.04	126.53
52	WP	502	GDP	O6-C6-C5	-2.08	121.04	126.53
50	GC	501	GTP	C3'-C2'-C1'	2.08	105.39	101.46
50	MC	501	GTP	O2B-PB-O3A	2.08	112.89	107.27
52	JB	502	GDP	C3'-C2'-C1'	2.08	105.39	101.46
52	MB	502	GDP	O6-C6-C5	-2.08	121.05	126.53
52	EB	502	GDP	O6-C6-C5	-2.07	121.06	126.53
50	PE	501	GTP	C3'-C2'-C1'	2.07	105.39	101.46
50	WA	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
52	EH	502	GDP	O6-C6-C5	-2.07	121.06	126.53
52	DP	502	GDP	O6-C6-C5	-2.07	121.06	126.53
52	BD	502	GDP	O6-C6-C5	-2.07	121.07	126.53
52	GF	502	GDP	O6-C6-C5	-2.07	121.07	126.53
50	VG	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
50	MC	501	GTP	O2A-PA-O3A	2.07	112.87	107.27
52	BL	502	GDP	O6-C6-C5	-2.07	121.07	126.53
52	CB	502	GDP	O6-C6-C5	-2.07	121.07	126.53
52	HD	502	GDP	O6-C6-C5	-2.07	121.07	126.53
52	RF	502	GDP	C3'-C2'-C1'	2.07	105.37	101.46
52	BN	502	GDP	O6-C6-C5	-2.07	121.08	126.53
52	EN	502	GDP	O6-C6-C5	-2.07	121.08	126.53
52	TB	502	GDP	O6-C6-C5	-2.07	121.08	126.53
50	BM	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
50	CO	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
52	IN	502	GDP	O6-C6-C5	-2.06	121.08	126.53
50	NA	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
50	WM	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
50	JO	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
52	RD	502	GDP	C3'-C2'-C1'	2.06	105.37	101.46
50	UA	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
52	CJ	502	GDP	C3'-C2'-C1'	2.06	105.36	101.46
52	IP	502	GDP	C3'-C2'-C1'	2.06	105.36	101.46
50	GA	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	UM	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
52	QP	502	GDP	C5-C6-N1	2.06	118.50	113.25
52	OL	502	GDP	C5-C6-N1	2.06	118.50	113.25
50	PC	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
52	UD	502	GDP	O6-C6-C5	-2.06	121.10	126.53
52	PJ	502	GDP	O6-C6-C5	-2.06	121.10	126.53
50	II	501	GTP	O2B-PB-O3A	2.06	112.83	107.27
52	IL	502	GDP	O6-C6-C5	-2.06	121.10	126.53
52	EF	502	GDP	C2'-C3'-C4'	2.06	106.58	102.61
52	TJ	502	GDP	O6-C6-C5	-2.06	121.10	126.53
50	RO	501	GTP	C3'-C2'-C1'	2.06	105.35	101.46
50	JC	501	GTP	C3'-C2'-C1'	2.06	105.35	101.46
52	WB	502	GDP	O6-C6-C5	-2.06	121.11	126.53
52	EF	502	GDP	O6-C6-C5	-2.05	121.11	126.53
50	CQ	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
52	TB	502	GDP	C3'-C2'-C1'	2.05	105.35	101.46
50	QM	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
52	GH	502	GDP	C3'-C2'-C1'	2.05	105.34	101.46
52	IJ	502	GDP	O6-C6-C5	-2.05	121.12	126.53
52	WN	502	GDP	O6-C6-C5	-2.05	121.12	126.53
52	VD	502	GDP	C3'-C2'-C1'	2.05	105.34	101.46
52	HP	502	GDP	C3'-C2'-C1'	2.05	105.34	101.46
50	AA	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
52	HB	502	GDP	O6-C6-C5	-2.05	121.12	126.53
52	IB	502	GDP	O6-C6-C5	-2.05	121.12	126.53
52	ID	502	GDP	O6-C6-C5	-2.05	121.12	126.53
52	AP	502	GDP	O6-C6-C5	-2.05	121.13	126.53
52	RL	502	GDP	C3'-C2'-C1'	2.04	105.33	101.46
50	UI	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
50	CM	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
52	PB	502	GDP	O6-C6-C5	-2.04	121.14	126.53
50	UE	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
52	CH	502	GDP	O6-C6-C5	-2.04	121.14	126.53
52	OH	502	GDP	O6-C6-C5	-2.04	121.15	126.53
50	CG	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
50	IK	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
52	ML	502	GDP	C2'-C3'-C4'	2.04	106.55	102.61
50	DG	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
52	QP	502	GDP	C3'-C2'-C1'	2.04	105.32	101.46
50	DI	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
52	PH	502	GDP	C3'-C2'-C1'	2.04	105.32	101.46
52	JF	502	GDP	C1'-N9-C4	-2.04	120.47	126.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	NN	502	GDP	O6-C6-C5	-2.04	121.16	126.53
52	QJ	502	GDP	O6-C6-C5	-2.04	121.16	126.53
52	IL	502	GDP	C3'-C2'-C1'	2.04	105.31	101.46
52	PN	502	GDP	C3'-C2'-C1'	2.04	105.31	101.46
52	QL	502	GDP	C3'-C2'-C1'	2.03	105.31	101.46
50	HK	501	GTP	C3'-C2'-C1'	2.03	105.31	101.46
52	VL	502	GDP	O6-C6-C5	-2.03	121.17	126.53
50	TG	501	GTP	C3'-C2'-C1'	2.03	105.31	101.46
52	HN	502	GDP	C3'-C2'-C1'	2.03	105.31	101.46
50	TK	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
50	OK	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
52	HB	502	GDP	C3'-C2'-C1'	2.03	105.30	101.46
50	CE	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
52	LN	502	GDP	C3'-C2'-C1'	2.03	105.30	101.46
50	SA	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
50	VM	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
50	WI	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
52	HF	502	GDP	C3'-C2'-C1'	2.03	105.30	101.46
50	HE	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
52	JF	502	GDP	C2'-C3'-C4'	2.03	106.52	102.61
52	IF	502	GDP	O6-C6-C5	-2.03	121.19	126.53
52	JB	502	GDP	O6-C6-C5	-2.03	121.19	126.53
50	TC	501	GTP	C3'-C2'-C1'	2.03	105.29	101.46
52	FH	502	GDP	C3'-C2'-C1'	2.03	105.29	101.46
52	QF	502	GDP	C3'-C2'-C1'	2.02	105.29	101.46
50	FO	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
50	PK	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
50	RC	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
52	BB	502	GDP	O6-C6-C5	-2.02	121.19	126.53
50	TE	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
52	LD	502	GDP	C2'-C3'-C4'	2.02	106.52	102.61
52	DH	502	GDP	O6-C6-C5	-2.02	121.20	126.53
52	DN	502	GDP	O6-C6-C5	-2.02	121.20	126.53
52	JF	502	GDP	C8-N7-C5	2.02	107.86	104.26
52	GJ	502	GDP	C3'-C2'-C1'	2.02	105.28	101.46
52	EJ	502	GDP	O6-C6-C5	-2.02	121.20	126.53
50	PO	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
52	JD	502	GDP	C2'-C3'-C4'	2.02	106.51	102.61
52	CP	502	GDP	O6-C6-C5	-2.02	121.21	126.53
52	RN	502	GDP	C2'-C3'-C4'	2.02	106.50	102.61
52	JP	502	GDP	O6-C6-C5	-2.02	121.21	126.53
50	BC	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	RG	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
52	VB	502	GDP	O6-C6-C5	-2.01	121.22	126.53
52	DB	502	GDP	C3'-C2'-C1'	2.01	105.27	101.46
50	SM	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
50	PM	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
52	WN	502	GDP	C3'-C2'-C1'	2.01	105.26	101.46
52	VH	502	GDP	O6-C6-C5	-2.01	121.23	126.53
52	DD	502	GDP	C2'-C3'-C4'	2.01	106.49	102.61
50	FA	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
50	SE	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
50	RM	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
50	TA	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
52	ED	502	GDP	O6-C6-C5	-2.01	121.24	126.53
50	BE	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
52	TH	502	GDP	O6-C6-C5	-2.00	121.24	126.53
52	DP	502	GDP	C3'-C2'-C1'	2.00	105.25	101.46
52	FB	502	GDP	C2'-C3'-C4'	2.00	106.48	102.61
52	PL	502	GDP	C3'-C2'-C1'	2.00	105.25	101.46
50	TM	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
50	RI	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
52	OD	502	GDP	C5-C6-N1	2.00	118.35	113.25
52	TL	502	GDP	O6-C6-C5	-2.00	121.25	126.53
50	MA	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
52	LP	502	GDP	C2'-C3'-C4'	2.00	106.47	102.61

There are no chirality outliers.

All (1501) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
50	AA	501	GTP	C5'-O5'-PA-O3A
50	AA	501	GTP	C5'-O5'-PA-O1A
50	AA	501	GTP	C5'-O5'-PA-O2A
50	AC	501	GTP	C5'-O5'-PA-O3A
50	AC	501	GTP	C5'-O5'-PA-O1A
50	AC	501	GTP	C5'-O5'-PA-O2A
50	AE	501	GTP	PB-O3A-PA-O5'
50	AE	501	GTP	C5'-O5'-PA-O3A
50	AE	501	GTP	C5'-O5'-PA-O1A
50	AE	501	GTP	C5'-O5'-PA-O2A
50	AG	501	GTP	PB-O3A-PA-O5'
50	AG	501	GTP	C5'-O5'-PA-O3A
50	AG	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
50	AI	501	GTP	PB-O3A-PA-O5'
50	AI	501	GTP	C5'-O5'-PA-O3A
50	AI	501	GTP	C5'-O5'-PA-O1A
50	AI	501	GTP	C5'-O5'-PA-O2A
50	AK	501	GTP	C5'-O5'-PA-O3A
50	AK	501	GTP	C5'-O5'-PA-O1A
50	AK	501	GTP	C5'-O5'-PA-O2A
50	AM	501	GTP	C5'-O5'-PA-O3A
50	AM	501	GTP	C5'-O5'-PA-O1A
50	AM	501	GTP	C5'-O5'-PA-O2A
50	AO	501	GTP	C5'-O5'-PA-O3A
50	AO	501	GTP	C5'-O5'-PA-O1A
50	AO	501	GTP	C5'-O5'-PA-O2A
50	BC	501	GTP	C5'-O5'-PA-O3A
50	BC	501	GTP	C5'-O5'-PA-O1A
50	BC	501	GTP	C5'-O5'-PA-O2A
50	BE	501	GTP	C5'-O5'-PA-O3A
50	BE	501	GTP	C5'-O5'-PA-O1A
50	BE	501	GTP	C5'-O5'-PA-O2A
50	BG	501	GTP	C5'-O5'-PA-O3A
50	BG	501	GTP	C5'-O5'-PA-O1A
50	BG	501	GTP	C5'-O5'-PA-O2A
50	BI	501	GTP	C5'-O5'-PA-O3A
50	BI	501	GTP	C5'-O5'-PA-O1A
50	BK	501	GTP	C5'-O5'-PA-O3A
50	BK	501	GTP	C5'-O5'-PA-O1A
50	BK	501	GTP	C5'-O5'-PA-O2A
50	BM	501	GTP	C5'-O5'-PA-O3A
50	BM	501	GTP	C5'-O5'-PA-O1A
50	BO	501	GTP	C5'-O5'-PA-O3A
50	BO	501	GTP	C5'-O5'-PA-O1A
50	BO	501	GTP	C5'-O5'-PA-O2A
50	CC	501	GTP	C5'-O5'-PA-O3A
50	CC	501	GTP	C5'-O5'-PA-O1A
50	CC	501	GTP	C5'-O5'-PA-O2A
50	CE	501	GTP	C5'-O5'-PA-O3A
50	CE	501	GTP	C5'-O5'-PA-O1A
50	CE	501	GTP	C5'-O5'-PA-O2A
50	CG	501	GTP	C5'-O5'-PA-O3A
50	CG	501	GTP	C5'-O5'-PA-O1A
50	CG	501	GTP	C5'-O5'-PA-O2A
50	CI	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
50	CI	501	GTP	C5'-O5'-PA-O1A
50	CI	501	GTP	C5'-O5'-PA-O2A
50	CK	501	GTP	C5'-O5'-PA-O3A
50	CK	501	GTP	C5'-O5'-PA-O1A
50	CM	501	GTP	C5'-O5'-PA-O3A
50	CM	501	GTP	C5'-O5'-PA-O1A
50	CM	501	GTP	C5'-O5'-PA-O2A
50	CO	501	GTP	C5'-O5'-PA-O3A
50	CO	501	GTP	C5'-O5'-PA-O1A
50	CO	501	GTP	C5'-O5'-PA-O2A
50	CQ	501	GTP	C5'-O5'-PA-O3A
50	CQ	501	GTP	C5'-O5'-PA-O1A
50	CQ	501	GTP	C5'-O5'-PA-O2A
50	DC	501	GTP	C5'-O5'-PA-O3A
50	DC	501	GTP	C5'-O5'-PA-O1A
50	DE	501	GTP	C5'-O5'-PA-O3A
50	DE	501	GTP	C5'-O5'-PA-O1A
50	DE	501	GTP	C5'-O5'-PA-O2A
50	DG	501	GTP	C5'-O5'-PA-O3A
50	DG	501	GTP	C5'-O5'-PA-O1A
50	DG	501	GTP	C5'-O5'-PA-O2A
50	DI	501	GTP	C5'-O5'-PA-O3A
50	DI	501	GTP	C5'-O5'-PA-O1A
50	DK	501	GTP	C5'-O5'-PA-O3A
50	DK	501	GTP	C5'-O5'-PA-O1A
50	DK	501	GTP	C5'-O5'-PA-O2A
50	DM	501	GTP	C5'-O5'-PA-O3A
50	DM	501	GTP	C5'-O5'-PA-O1A
50	DM	501	GTP	C5'-O5'-PA-O2A
50	DO	501	GTP	C5'-O5'-PA-O3A
50	DO	501	GTP	C5'-O5'-PA-O1A
50	DO	501	GTP	C5'-O5'-PA-O2A
50	DQ	501	GTP	C5'-O5'-PA-O3A
50	DQ	501	GTP	C5'-O5'-PA-O1A
50	DQ	501	GTP	C5'-O5'-PA-O2A
50	EA	501	GTP	C5'-O5'-PA-O3A
50	EA	501	GTP	C5'-O5'-PA-O1A
50	EA	501	GTP	C5'-O5'-PA-O2A
50	EC	501	GTP	C5'-O5'-PA-O3A
50	EC	501	GTP	C5'-O5'-PA-O1A
50	EC	501	GTP	C5'-O5'-PA-O2A
50	EE	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
50	EE	501	GTP	C5'-O5'-PA-O1A
50	EE	501	GTP	C5'-O5'-PA-O2A
50	EG	501	GTP	C5'-O5'-PA-O3A
50	EG	501	GTP	C5'-O5'-PA-O1A
50	EG	501	GTP	C5'-O5'-PA-O2A
50	EI	501	GTP	C5'-O5'-PA-O3A
50	EI	501	GTP	C5'-O5'-PA-O1A
50	EI	501	GTP	C5'-O5'-PA-O2A
50	EK	501	GTP	C5'-O5'-PA-O3A
50	EK	501	GTP	C5'-O5'-PA-O1A
50	EK	501	GTP	C5'-O5'-PA-O2A
50	EM	501	GTP	C5'-O5'-PA-O3A
50	EM	501	GTP	C5'-O5'-PA-O1A
50	EM	501	GTP	C5'-O5'-PA-O2A
50	EO	501	GTP	C5'-O5'-PA-O3A
50	EO	501	GTP	C5'-O5'-PA-O1A
50	EO	501	GTP	C5'-O5'-PA-O2A
50	FA	501	GTP	C5'-O5'-PA-O3A
50	FA	501	GTP	C5'-O5'-PA-O1A
50	FA	501	GTP	C5'-O5'-PA-O2A
50	FC	501	GTP	C5'-O5'-PA-O3A
50	FC	501	GTP	C5'-O5'-PA-O1A
50	FC	501	GTP	C5'-O5'-PA-O2A
50	FE	501	GTP	C5'-O5'-PA-O3A
50	FE	501	GTP	C5'-O5'-PA-O1A
50	FE	501	GTP	C5'-O5'-PA-O2A
50	FG	501	GTP	C5'-O5'-PA-O3A
50	FG	501	GTP	C5'-O5'-PA-O1A
50	FG	501	GTP	C5'-O5'-PA-O2A
50	FI	501	GTP	C5'-O5'-PA-O3A
50	FI	501	GTP	C5'-O5'-PA-O2A
50	FK	501	GTP	C5'-O5'-PA-O3A
50	FK	501	GTP	C5'-O5'-PA-O1A
50	FK	501	GTP	C5'-O5'-PA-O2A
50	FM	501	GTP	C5'-O5'-PA-O3A
50	FM	501	GTP	C5'-O5'-PA-O1A
50	FM	501	GTP	C5'-O5'-PA-O2A
50	FO	501	GTP	C5'-O5'-PA-O3A
50	FO	501	GTP	C5'-O5'-PA-O1A
50	FO	501	GTP	C5'-O5'-PA-O2A
50	GA	501	GTP	C5'-O5'-PA-O3A
50	GA	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
50	GA	501	GTP	C5'-O5'-PA-O2A
50	GC	501	GTP	C5'-O5'-PA-O3A
50	GC	501	GTP	C5'-O5'-PA-O1A
50	GC	501	GTP	C5'-O5'-PA-O2A
50	GE	501	GTP	C5'-O5'-PA-O3A
50	GE	501	GTP	C5'-O5'-PA-O1A
50	GE	501	GTP	C5'-O5'-PA-O2A
50	GG	501	GTP	C5'-O5'-PA-O3A
50	GG	501	GTP	C5'-O5'-PA-O1A
50	GG	501	GTP	C5'-O5'-PA-O2A
50	GI	501	GTP	C5'-O5'-PA-O3A
50	GI	501	GTP	C5'-O5'-PA-O2A
50	GK	501	GTP	C5'-O5'-PA-O3A
50	GK	501	GTP	C5'-O5'-PA-O1A
50	GK	501	GTP	C5'-O5'-PA-O2A
50	GM	501	GTP	C5'-O5'-PA-O3A
50	GM	501	GTP	C5'-O5'-PA-O1A
50	GM	501	GTP	C5'-O5'-PA-O2A
50	GO	501	GTP	C5'-O5'-PA-O3A
50	GO	501	GTP	C5'-O5'-PA-O1A
50	GO	501	GTP	C5'-O5'-PA-O2A
50	HA	501	GTP	PB-O3A-PA-O5'
50	HA	501	GTP	C5'-O5'-PA-O3A
50	HA	501	GTP	C5'-O5'-PA-O1A
50	HA	501	GTP	C5'-O5'-PA-O2A
50	HC	501	GTP	C5'-O5'-PA-O3A
50	HC	501	GTP	C5'-O5'-PA-O1A
50	HC	501	GTP	C5'-O5'-PA-O2A
50	HE	501	GTP	PB-O3A-PA-O5'
50	HE	501	GTP	C5'-O5'-PA-O3A
50	HE	501	GTP	C5'-O5'-PA-O1A
50	HE	501	GTP	C5'-O5'-PA-O2A
50	HG	501	GTP	C5'-O5'-PA-O3A
50	HG	501	GTP	C5'-O5'-PA-O1A
50	HG	501	GTP	C5'-O5'-PA-O2A
50	HI	501	GTP	PB-O3A-PA-O5'
50	HI	501	GTP	C5'-O5'-PA-O3A
50	HI	501	GTP	C5'-O5'-PA-O1A
50	HI	501	GTP	C5'-O5'-PA-O2A
50	HK	501	GTP	PB-O3A-PA-O5'
50	HK	501	GTP	C5'-O5'-PA-O3A
50	HK	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
50	HM	501	GTP	C5'-O5'-PA-O3A
50	HM	501	GTP	C5'-O5'-PA-O1A
50	HM	501	GTP	C5'-O5'-PA-O2A
50	HO	501	GTP	PB-O3A-PA-O5'
50	HO	501	GTP	C5'-O5'-PA-O3A
50	HO	501	GTP	C5'-O5'-PA-O2A
50	IA	501	GTP	C5'-O5'-PA-O3A
50	IA	501	GTP	C5'-O5'-PA-O1A
50	IA	501	GTP	C5'-O5'-PA-O2A
50	IC	501	GTP	C5'-O5'-PA-O3A
50	IC	501	GTP	C5'-O5'-PA-O1A
50	IC	501	GTP	C5'-O5'-PA-O2A
50	IE	501	GTP	C5'-O5'-PA-O3A
50	IE	501	GTP	C5'-O5'-PA-O1A
50	IE	501	GTP	C5'-O5'-PA-O2A
50	IG	501	GTP	C5'-O5'-PA-O3A
50	IG	501	GTP	C5'-O5'-PA-O1A
50	IG	501	GTP	C5'-O5'-PA-O2A
50	II	501	GTP	C5'-O5'-PA-O1A
50	IK	501	GTP	C5'-O5'-PA-O3A
50	IK	501	GTP	C5'-O5'-PA-O1A
50	IK	501	GTP	C5'-O5'-PA-O2A
50	IM	501	GTP	C5'-O5'-PA-O3A
50	IM	501	GTP	C5'-O5'-PA-O1A
50	IO	501	GTP	C5'-O5'-PA-O3A
50	IO	501	GTP	C5'-O5'-PA-O1A
50	JC	501	GTP	C5'-O5'-PA-O3A
50	JC	501	GTP	C5'-O5'-PA-O1A
50	JC	501	GTP	C5'-O5'-PA-O2A
50	JE	501	GTP	C5'-O5'-PA-O3A
50	JE	501	GTP	C5'-O5'-PA-O1A
50	JE	501	GTP	C5'-O5'-PA-O2A
50	JG	501	GTP	C5'-O5'-PA-O3A
50	JG	501	GTP	C5'-O5'-PA-O1A
50	JG	501	GTP	C5'-O5'-PA-O2A
50	JI	501	GTP	C5'-O5'-PA-O3A
50	JI	501	GTP	C5'-O5'-PA-O1A
50	JI	501	GTP	C5'-O5'-PA-O2A
50	JK	501	GTP	C5'-O5'-PA-O3A
50	JK	501	GTP	C5'-O5'-PA-O1A
50	JK	501	GTP	C5'-O5'-PA-O2A
50	JM	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
50	JM	501	GTP	C5'-O5'-PA-O1A
50	JM	501	GTP	C5'-O5'-PA-O2A
50	JO	501	GTP	C5'-O5'-PA-O3A
50	JO	501	GTP	C5'-O5'-PA-O1A
50	JO	501	GTP	C5'-O5'-PA-O2A
50	JQ	501	GTP	C5'-O5'-PA-O3A
50	JQ	501	GTP	C5'-O5'-PA-O1A
50	JQ	501	GTP	C5'-O5'-PA-O2A
50	KA	501	GTP	C5'-O5'-PA-O3A
50	KA	501	GTP	C5'-O5'-PA-O1A
50	KA	501	GTP	C5'-O5'-PA-O2A
50	KC	501	GTP	C5'-O5'-PA-O3A
50	KC	501	GTP	C5'-O5'-PA-O1A
50	KC	501	GTP	C5'-O5'-PA-O2A
50	KE	501	GTP	C5'-O5'-PA-O3A
50	KE	501	GTP	C5'-O5'-PA-O1A
50	KE	501	GTP	C5'-O5'-PA-O2A
50	KG	501	GTP	C5'-O5'-PA-O3A
50	KG	501	GTP	C5'-O5'-PA-O1A
50	KG	501	GTP	C5'-O5'-PA-O2A
50	KI	501	GTP	C5'-O5'-PA-O3A
50	KI	501	GTP	C5'-O5'-PA-O1A
50	KI	501	GTP	C5'-O5'-PA-O2A
50	KK	501	GTP	C5'-O5'-PA-O3A
50	KK	501	GTP	C5'-O5'-PA-O1A
50	KK	501	GTP	C5'-O5'-PA-O2A
50	KM	501	GTP	C5'-O5'-PA-O3A
50	KM	501	GTP	C5'-O5'-PA-O1A
50	KM	501	GTP	C5'-O5'-PA-O2A
50	KO	501	GTP	C5'-O5'-PA-O3A
50	KO	501	GTP	C5'-O5'-PA-O1A
50	KO	501	GTP	C5'-O5'-PA-O2A
50	LA	501	GTP	C5'-O5'-PA-O3A
50	LA	501	GTP	C5'-O5'-PA-O1A
50	LA	501	GTP	C5'-O5'-PA-O2A
50	LC	501	GTP	C5'-O5'-PA-O3A
50	LC	501	GTP	C5'-O5'-PA-O1A
50	LC	501	GTP	C5'-O5'-PA-O2A
50	LE	501	GTP	C5'-O5'-PA-O3A
50	LE	501	GTP	C5'-O5'-PA-O2A
50	LG	501	GTP	C5'-O5'-PA-O3A
50	LG	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
50	LG	501	GTP	C5'-O5'-PA-O2A
50	LG	501	GTP	O4'-C4'-C5'-O5'
50	LI	501	GTP	C5'-O5'-PA-O3A
50	LI	501	GTP	C5'-O5'-PA-O1A
50	LI	501	GTP	C5'-O5'-PA-O2A
50	LK	501	GTP	C5'-O5'-PA-O3A
50	LK	501	GTP	C5'-O5'-PA-O1A
50	LK	501	GTP	C5'-O5'-PA-O2A
50	LM	501	GTP	C5'-O5'-PA-O3A
50	LM	501	GTP	C5'-O5'-PA-O1A
50	LM	501	GTP	C5'-O5'-PA-O2A
50	LO	501	GTP	C5'-O5'-PA-O3A
50	LO	501	GTP	C5'-O5'-PA-O1A
50	LO	501	GTP	C5'-O5'-PA-O2A
50	MA	501	GTP	C5'-O5'-PA-O3A
50	MA	501	GTP	C5'-O5'-PA-O1A
50	MA	501	GTP	C5'-O5'-PA-O2A
50	MC	501	GTP	C5'-O5'-PA-O3A
50	MC	501	GTP	C5'-O5'-PA-O1A
50	MC	501	GTP	C5'-O5'-PA-O2A
50	ME	501	GTP	C5'-O5'-PA-O3A
50	ME	501	GTP	C5'-O5'-PA-O1A
50	MG	501	GTP	C5'-O5'-PA-O3A
50	MG	501	GTP	C5'-O5'-PA-O1A
50	MG	501	GTP	C5'-O5'-PA-O2A
50	MI	501	GTP	C5'-O5'-PA-O3A
50	MI	501	GTP	C5'-O5'-PA-O1A
50	MI	501	GTP	C5'-O5'-PA-O2A
50	MK	501	GTP	C5'-O5'-PA-O3A
50	MK	501	GTP	C5'-O5'-PA-O1A
50	MK	501	GTP	C5'-O5'-PA-O2A
50	MM	501	GTP	PB-O3A-PA-O5'
50	MM	501	GTP	C5'-O5'-PA-O3A
50	MM	501	GTP	C5'-O5'-PA-O1A
50	MM	501	GTP	C5'-O5'-PA-O2A
50	MO	501	GTP	C5'-O5'-PA-O3A
50	MO	501	GTP	C5'-O5'-PA-O1A
50	MO	501	GTP	C5'-O5'-PA-O2A
50	NA	501	GTP	C5'-O5'-PA-O3A
50	NA	501	GTP	C5'-O5'-PA-O1A
50	NA	501	GTP	C5'-O5'-PA-O2A
50	NC	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
50	NC	501	GTP	C5'-O5'-PA-O3A
50	NC	501	GTP	C5'-O5'-PA-O2A
50	NE	501	GTP	PB-O3A-PA-O5'
50	NE	501	GTP	C5'-O5'-PA-O3A
50	NE	501	GTP	C5'-O5'-PA-O2A
50	NG	501	GTP	C5'-O5'-PA-O3A
50	NG	501	GTP	C5'-O5'-PA-O1A
50	NG	501	GTP	C5'-O5'-PA-O2A
50	NI	501	GTP	C5'-O5'-PA-O3A
50	NI	501	GTP	C5'-O5'-PA-O1A
50	NI	501	GTP	C5'-O5'-PA-O2A
50	NK	501	GTP	C5'-O5'-PA-O3A
50	NK	501	GTP	C5'-O5'-PA-O1A
50	NK	501	GTP	C5'-O5'-PA-O2A
50	NM	501	GTP	C5'-O5'-PA-O3A
50	NM	501	GTP	C5'-O5'-PA-O1A
50	NM	501	GTP	C5'-O5'-PA-O2A
50	NO	501	GTP	C5'-O5'-PA-O3A
50	NO	501	GTP	C5'-O5'-PA-O1A
50	NO	501	GTP	C5'-O5'-PA-O2A
50	OA	501	GTP	C5'-O5'-PA-O3A
50	OA	501	GTP	C5'-O5'-PA-O1A
50	OA	501	GTP	C5'-O5'-PA-O2A
50	OC	501	GTP	C5'-O5'-PA-O3A
50	OC	501	GTP	C5'-O5'-PA-O1A
50	OC	501	GTP	C5'-O5'-PA-O2A
50	OE	501	GTP	C5'-O5'-PA-O3A
50	OE	501	GTP	C5'-O5'-PA-O1A
50	OE	501	GTP	C5'-O5'-PA-O2A
50	OG	501	GTP	C5'-O5'-PA-O3A
50	OG	501	GTP	C5'-O5'-PA-O1A
50	OG	501	GTP	C5'-O5'-PA-O2A
50	OI	501	GTP	C5'-O5'-PA-O3A
50	OI	501	GTP	C5'-O5'-PA-O1A
50	OI	501	GTP	C5'-O5'-PA-O2A
50	OK	501	GTP	C5'-O5'-PA-O3A
50	OK	501	GTP	C5'-O5'-PA-O1A
50	OK	501	GTP	C5'-O5'-PA-O2A
50	OM	501	GTP	C5'-O5'-PA-O3A
50	OM	501	GTP	C5'-O5'-PA-O1A
50	OM	501	GTP	C5'-O5'-PA-O2A
50	OO	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
50	OO	501	GTP	C5'-O5'-PA-O1A
50	OO	501	GTP	C5'-O5'-PA-O2A
50	PC	501	GTP	C5'-O5'-PA-O3A
50	PC	501	GTP	C5'-O5'-PA-O1A
50	PC	501	GTP	C5'-O5'-PA-O2A
50	PE	501	GTP	C5'-O5'-PA-O3A
50	PE	501	GTP	C5'-O5'-PA-O1A
50	PE	501	GTP	C5'-O5'-PA-O2A
50	PG	501	GTP	C5'-O5'-PA-O3A
50	PG	501	GTP	C5'-O5'-PA-O1A
50	PG	501	GTP	C5'-O5'-PA-O2A
50	PI	501	GTP	C5'-O5'-PA-O3A
50	PI	501	GTP	C5'-O5'-PA-O1A
50	PI	501	GTP	C5'-O5'-PA-O2A
50	PK	501	GTP	C5'-O5'-PA-O3A
50	PK	501	GTP	C5'-O5'-PA-O1A
50	PK	501	GTP	C5'-O5'-PA-O2A
50	PM	501	GTP	C5'-O5'-PA-O3A
50	PM	501	GTP	C5'-O5'-PA-O1A
50	PM	501	GTP	C5'-O5'-PA-O2A
50	PO	501	GTP	C5'-O5'-PA-O3A
50	PO	501	GTP	C5'-O5'-PA-O1A
50	PO	501	GTP	C5'-O5'-PA-O2A
50	QC	501	GTP	C5'-O5'-PA-O3A
50	QC	501	GTP	C5'-O5'-PA-O1A
50	QC	501	GTP	C5'-O5'-PA-O2A
50	QE	501	GTP	C5'-O5'-PA-O3A
50	QE	501	GTP	C5'-O5'-PA-O1A
50	QE	501	GTP	C5'-O5'-PA-O2A
50	QG	501	GTP	C5'-O5'-PA-O3A
50	QG	501	GTP	C5'-O5'-PA-O1A
50	QG	501	GTP	C5'-O5'-PA-O2A
50	QI	501	GTP	C5'-O5'-PA-O3A
50	QI	501	GTP	C5'-O5'-PA-O1A
50	QI	501	GTP	C5'-O5'-PA-O2A
50	QK	501	GTP	C5'-O5'-PA-O3A
50	QK	501	GTP	C5'-O5'-PA-O1A
50	QK	501	GTP	C5'-O5'-PA-O2A
50	QM	501	GTP	C5'-O5'-PA-O3A
50	QM	501	GTP	C5'-O5'-PA-O1A
50	QM	501	GTP	C5'-O5'-PA-O2A
50	QO	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
50	QO	501	GTP	C5'-O5'-PA-O1A
50	RC	501	GTP	C5'-O5'-PA-O3A
50	RC	501	GTP	C5'-O5'-PA-O1A
50	RC	501	GTP	C5'-O5'-PA-O2A
50	RE	501	GTP	C5'-O5'-PA-O3A
50	RE	501	GTP	C5'-O5'-PA-O1A
50	RE	501	GTP	C5'-O5'-PA-O2A
50	RG	501	GTP	C5'-O5'-PA-O3A
50	RG	501	GTP	C5'-O5'-PA-O1A
50	RG	501	GTP	C5'-O5'-PA-O2A
50	RI	501	GTP	C5'-O5'-PA-O3A
50	RI	501	GTP	C5'-O5'-PA-O1A
50	RI	501	GTP	C5'-O5'-PA-O2A
50	RK	501	GTP	C5'-O5'-PA-O3A
50	RK	501	GTP	C5'-O5'-PA-O1A
50	RK	501	GTP	C5'-O5'-PA-O2A
50	RM	501	GTP	C5'-O5'-PA-O3A
50	RM	501	GTP	C5'-O5'-PA-O1A
50	RM	501	GTP	C5'-O5'-PA-O2A
50	RO	501	GTP	C5'-O5'-PA-O3A
50	RO	501	GTP	C5'-O5'-PA-O1A
50	RO	501	GTP	C5'-O5'-PA-O2A
50	SA	501	GTP	C5'-O5'-PA-O3A
50	SA	501	GTP	C5'-O5'-PA-O1A
50	SA	501	GTP	C5'-O5'-PA-O2A
50	SC	501	GTP	C5'-O5'-PA-O3A
50	SC	501	GTP	C5'-O5'-PA-O1A
50	SC	501	GTP	C5'-O5'-PA-O2A
50	SE	501	GTP	C5'-O5'-PA-O3A
50	SE	501	GTP	C5'-O5'-PA-O1A
50	SE	501	GTP	C5'-O5'-PA-O2A
50	SG	501	GTP	C5'-O5'-PA-O3A
50	SG	501	GTP	C5'-O5'-PA-O1A
50	SG	501	GTP	C5'-O5'-PA-O2A
50	SI	501	GTP	PB-O3A-PA-O5'
50	SI	501	GTP	C5'-O5'-PA-O3A
50	SI	501	GTP	C5'-O5'-PA-O1A
50	SI	501	GTP	C5'-O5'-PA-O2A
50	SK	501	GTP	C5'-O5'-PA-O3A
50	SK	501	GTP	C5'-O5'-PA-O1A
50	SK	501	GTP	C5'-O5'-PA-O2A
50	SM	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
50	SM	501	GTP	C5'-O5'-PA-O1A
50	SM	501	GTP	C5'-O5'-PA-O2A
50	TA	501	GTP	C5'-O5'-PA-O3A
50	TA	501	GTP	C5'-O5'-PA-O1A
50	TA	501	GTP	C5'-O5'-PA-O2A
50	TC	501	GTP	C5'-O5'-PA-O3A
50	TC	501	GTP	C5'-O5'-PA-O1A
50	TC	501	GTP	C5'-O5'-PA-O2A
50	TE	501	GTP	C5'-O5'-PA-O3A
50	TE	501	GTP	C5'-O5'-PA-O1A
50	TE	501	GTP	C5'-O5'-PA-O2A
50	TG	501	GTP	C5'-O5'-PA-O3A
50	TG	501	GTP	C5'-O5'-PA-O1A
50	TG	501	GTP	C5'-O5'-PA-O2A
50	TI	501	GTP	C5'-O5'-PA-O3A
50	TI	501	GTP	C5'-O5'-PA-O1A
50	TI	501	GTP	C5'-O5'-PA-O2A
50	TK	501	GTP	C5'-O5'-PA-O3A
50	TK	501	GTP	C5'-O5'-PA-O1A
50	TK	501	GTP	C5'-O5'-PA-O2A
50	TM	501	GTP	C5'-O5'-PA-O3A
50	TM	501	GTP	C5'-O5'-PA-O1A
50	TM	501	GTP	C5'-O5'-PA-O2A
50	UA	501	GTP	C5'-O5'-PA-O3A
50	UA	501	GTP	C5'-O5'-PA-O1A
50	UA	501	GTP	C5'-O5'-PA-O2A
50	UC	501	GTP	PB-O3A-PA-O5'
50	UC	501	GTP	C5'-O5'-PA-O3A
50	UC	501	GTP	C5'-O5'-PA-O1A
50	UC	501	GTP	C5'-O5'-PA-O2A
50	UE	501	GTP	PB-O3A-PA-O5'
50	UE	501	GTP	C5'-O5'-PA-O3A
50	UE	501	GTP	C5'-O5'-PA-O1A
50	UE	501	GTP	C5'-O5'-PA-O2A
50	UG	501	GTP	C5'-O5'-PA-O3A
50	UG	501	GTP	C5'-O5'-PA-O1A
50	UG	501	GTP	C5'-O5'-PA-O2A
50	UI	501	GTP	PB-O3A-PA-O5'
50	UI	501	GTP	C5'-O5'-PA-O3A
50	UI	501	GTP	C5'-O5'-PA-O1A
50	UI	501	GTP	C5'-O5'-PA-O2A
50	UK	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
50	UK	501	GTP	C5'-O5'-PA-O1A
50	UK	501	GTP	C5'-O5'-PA-O2A
50	UM	501	GTP	C5'-O5'-PA-O3A
50	UM	501	GTP	C5'-O5'-PA-O1A
50	UM	501	GTP	C5'-O5'-PA-O2A
50	UO	501	GTP	C5'-O5'-PA-O3A
50	UO	501	GTP	C5'-O5'-PA-O1A
50	UO	501	GTP	C5'-O5'-PA-O2A
50	VA	501	GTP	C5'-O5'-PA-O3A
50	VA	501	GTP	C5'-O5'-PA-O1A
50	VA	501	GTP	C5'-O5'-PA-O2A
50	VC	501	GTP	C5'-O5'-PA-O3A
50	VC	501	GTP	C5'-O5'-PA-O1A
50	VC	501	GTP	C5'-O5'-PA-O2A
50	VE	501	GTP	C5'-O5'-PA-O3A
50	VE	501	GTP	C5'-O5'-PA-O1A
50	VE	501	GTP	C5'-O5'-PA-O2A
50	VG	501	GTP	C5'-O5'-PA-O3A
50	VG	501	GTP	C5'-O5'-PA-O1A
50	VI	501	GTP	C5'-O5'-PA-O3A
50	VI	501	GTP	C5'-O5'-PA-O1A
50	VI	501	GTP	C5'-O5'-PA-O2A
50	VK	501	GTP	C5'-O5'-PA-O3A
50	VK	501	GTP	C5'-O5'-PA-O1A
50	VK	501	GTP	C5'-O5'-PA-O2A
50	VM	501	GTP	C5'-O5'-PA-O3A
50	VM	501	GTP	C5'-O5'-PA-O1A
50	VM	501	GTP	C5'-O5'-PA-O2A
50	VO	501	GTP	C5'-O5'-PA-O3A
50	VO	501	GTP	C5'-O5'-PA-O1A
50	VO	501	GTP	C5'-O5'-PA-O2A
50	VO	501	GTP	O4'-C4'-C5'-O5'
50	WA	501	GTP	C5'-O5'-PA-O3A
50	WA	501	GTP	C5'-O5'-PA-O1A
50	WA	501	GTP	C5'-O5'-PA-O2A
50	WC	501	GTP	C5'-O5'-PA-O3A
50	WC	501	GTP	C5'-O5'-PA-O1A
50	WC	501	GTP	C5'-O5'-PA-O2A
50	WE	501	GTP	C5'-O5'-PA-O3A
50	WE	501	GTP	C5'-O5'-PA-O1A
50	WE	501	GTP	C5'-O5'-PA-O2A
50	WG	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
50	WG	501	GTP	C5'-O5'-PA-O1A
50	WG	501	GTP	C5'-O5'-PA-O2A
50	WI	501	GTP	C5'-O5'-PA-O3A
50	WI	501	GTP	C5'-O5'-PA-O1A
50	WI	501	GTP	C5'-O5'-PA-O2A
50	WK	501	GTP	C5'-O5'-PA-O3A
50	WK	501	GTP	C5'-O5'-PA-O1A
50	WK	501	GTP	C5'-O5'-PA-O2A
50	WM	501	GTP	C5'-O5'-PA-O3A
50	WM	501	GTP	C5'-O5'-PA-O1A
50	WM	501	GTP	C5'-O5'-PA-O2A
50	WO	501	GTP	C5'-O5'-PA-O3A
50	WO	501	GTP	C5'-O5'-PA-O1A
50	WO	501	GTP	C5'-O5'-PA-O2A
52	AD	502	GDP	C5'-O5'-PA-O1A
52	BH	502	GDP	C5'-O5'-PA-O1A
52	BL	502	GDP	C5'-O5'-PA-O3A
52	BL	502	GDP	C5'-O5'-PA-O1A
52	CL	502	GDP	C5'-O5'-PA-O1A
52	CN	502	GDP	C5'-O5'-PA-O1A
52	DJ	502	GDP	C5'-O5'-PA-O1A
52	DL	502	GDP	C5'-O5'-PA-O3A
52	DL	502	GDP	C5'-O5'-PA-O1A
52	DN	502	GDP	C5'-O5'-PA-O1A
52	DP	502	GDP	C5'-O5'-PA-O3A
52	DP	502	GDP	C5'-O5'-PA-O1A
52	EL	502	GDP	C5'-O5'-PA-O1A
52	GD	502	GDP	C5'-O5'-PA-O3A
52	GD	502	GDP	C5'-O5'-PA-O1A
52	GJ	502	GDP	PA-O3A-PB-O3B
52	GL	502	GDP	C5'-O5'-PA-O1A
52	HB	502	GDP	C5'-O5'-PA-O1A
52	HP	502	GDP	C5'-O5'-PA-O1A
52	JJ	502	GDP	C5'-O5'-PA-O3A
52	JJ	502	GDP	C5'-O5'-PA-O1A
52	JL	502	GDP	C5'-O5'-PA-O1A
52	KB	502	GDP	C5'-O5'-PA-O3A
52	KB	502	GDP	C5'-O5'-PA-O1A
52	KD	502	GDP	C5'-O5'-PA-O1A
52	KJ	502	GDP	C5'-O5'-PA-O1A
52	KP	502	GDP	C5'-O5'-PA-O3A
52	KP	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
52	LB	502	GDP	C5'-O5'-PA-O1A
52	LD	502	GDP	C5'-O5'-PA-O1A
52	LH	502	GDP	C5'-O5'-PA-O1A
52	LL	502	GDP	C5'-O5'-PA-O1A
52	LN	502	GDP	C5'-O5'-PA-O1A
52	MB	502	GDP	C5'-O5'-PA-O1A
52	MD	502	GDP	C5'-O5'-PA-O3A
52	MF	502	GDP	C5'-O5'-PA-O1A
52	MH	502	GDP	C5'-O5'-PA-O3A
52	MH	502	GDP	C5'-O5'-PA-O1A
52	MJ	502	GDP	C5'-O5'-PA-O1A
52	ML	502	GDP	C5'-O5'-PA-O3A
52	ML	502	GDP	C5'-O5'-PA-O1A
52	MN	502	GDP	C5'-O5'-PA-O1A
52	MP	502	GDP	C5'-O5'-PA-O3A
52	MP	502	GDP	C5'-O5'-PA-O1A
52	ND	502	GDP	C5'-O5'-PA-O1A
52	NF	502	GDP	C5'-O5'-PA-O1A
52	NH	502	GDP	C5'-O5'-PA-O1A
52	NJ	502	GDP	C5'-O5'-PA-O1A
52	NN	502	GDP	C5'-O5'-PA-O1A
52	OB	502	GDP	C5'-O5'-PA-O3A
52	OB	502	GDP	C5'-O5'-PA-O1A
52	OD	502	GDP	C5'-O5'-PA-O1A
52	OF	502	GDP	C5'-O5'-PA-O1A
52	OH	502	GDP	C5'-O5'-PA-O1A
52	OJ	502	GDP	C5'-O5'-PA-O3A
52	OJ	502	GDP	C5'-O5'-PA-O1A
52	OP	502	GDP	C5'-O5'-PA-O1A
52	PP	502	GDP	C5'-O5'-PA-O1A
52	SD	502	GDP	C5'-O5'-PA-O1A
52	SF	502	GDP	C5'-O5'-PA-O1A
52	SH	502	GDP	C5'-O5'-PA-O1A
52	SJ	502	GDP	C5'-O5'-PA-O1A
52	SL	502	GDP	C5'-O5'-PA-O1A
52	SN	502	GDP	C5'-O5'-PA-O1A
52	TH	502	GDP	C5'-O5'-PA-O1A
52	UD	502	GDP	C5'-O5'-PA-O1A
52	VB	502	GDP	C5'-O5'-PA-O3A
52	VB	502	GDP	C5'-O5'-PA-O1A
50	BC	501	GTP	C3'-C4'-C5'-O5'
50	DC	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
50	EM	501	GTP	C3'-C4'-C5'-O5'
50	FO	501	GTP	C3'-C4'-C5'-O5'
50	HG	501	GTP	C3'-C4'-C5'-O5'
50	HI	501	GTP	C3'-C4'-C5'-O5'
50	HM	501	GTP	O4'-C4'-C5'-O5'
50	HO	501	GTP	C3'-C4'-C5'-O5'
50	IE	501	GTP	O4'-C4'-C5'-O5'
50	IG	501	GTP	O4'-C4'-C5'-O5'
50	IK	501	GTP	O4'-C4'-C5'-O5'
50	IO	501	GTP	O4'-C4'-C5'-O5'
50	IO	501	GTP	C3'-C4'-C5'-O5'
50	LG	501	GTP	C3'-C4'-C5'-O5'
50	LK	501	GTP	O4'-C4'-C5'-O5'
50	NI	501	GTP	O4'-C4'-C5'-O5'
50	NI	501	GTP	C3'-C4'-C5'-O5'
50	OK	501	GTP	O4'-C4'-C5'-O5'
50	OK	501	GTP	C3'-C4'-C5'-O5'
50	PG	501	GTP	O4'-C4'-C5'-O5'
50	QK	501	GTP	C3'-C4'-C5'-O5'
50	QO	501	GTP	C3'-C4'-C5'-O5'
50	RK	501	GTP	O4'-C4'-C5'-O5'
50	RK	501	GTP	C3'-C4'-C5'-O5'
50	VG	501	GTP	O4'-C4'-C5'-O5'
50	VK	501	GTP	O4'-C4'-C5'-O5'
50	VK	501	GTP	C3'-C4'-C5'-O5'
50	VO	501	GTP	C3'-C4'-C5'-O5'
50	WG	501	GTP	C3'-C4'-C5'-O5'
52	OJ	502	GDP	O4'-C4'-C5'-O5'
50	BC	501	GTP	O4'-C4'-C5'-O5'
50	BI	501	GTP	O4'-C4'-C5'-O5'
50	BI	501	GTP	C3'-C4'-C5'-O5'
50	DC	501	GTP	C3'-C4'-C5'-O5'
50	DE	501	GTP	C3'-C4'-C5'-O5'
50	EM	501	GTP	O4'-C4'-C5'-O5'
50	FO	501	GTP	O4'-C4'-C5'-O5'
50	HG	501	GTP	O4'-C4'-C5'-O5'
50	HI	501	GTP	O4'-C4'-C5'-O5'
50	HK	501	GTP	O4'-C4'-C5'-O5'
50	HK	501	GTP	C3'-C4'-C5'-O5'
50	HM	501	GTP	C3'-C4'-C5'-O5'
50	HO	501	GTP	O4'-C4'-C5'-O5'
50	IE	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
50	IG	501	GTP	C3'-C4'-C5'-O5'
50	II	501	GTP	O4'-C4'-C5'-O5'
50	II	501	GTP	C3'-C4'-C5'-O5'
50	IK	501	GTP	C3'-C4'-C5'-O5'
50	LK	501	GTP	C3'-C4'-C5'-O5'
50	OC	501	GTP	O4'-C4'-C5'-O5'
50	OC	501	GTP	C3'-C4'-C5'-O5'
50	PG	501	GTP	C3'-C4'-C5'-O5'
50	QG	501	GTP	O4'-C4'-C5'-O5'
50	QG	501	GTP	C3'-C4'-C5'-O5'
50	QK	501	GTP	O4'-C4'-C5'-O5'
50	QO	501	GTP	O4'-C4'-C5'-O5'
50	TC	501	GTP	O4'-C4'-C5'-O5'
50	TC	501	GTP	C3'-C4'-C5'-O5'
50	UK	501	GTP	O4'-C4'-C5'-O5'
50	UK	501	GTP	C3'-C4'-C5'-O5'
50	VE	501	GTP	O4'-C4'-C5'-O5'
50	VE	501	GTP	C3'-C4'-C5'-O5'
50	VG	501	GTP	C3'-C4'-C5'-O5'
50	VM	501	GTP	O4'-C4'-C5'-O5'
50	VM	501	GTP	C3'-C4'-C5'-O5'
50	WG	501	GTP	O4'-C4'-C5'-O5'
52	OB	502	GDP	O4'-C4'-C5'-O5'
52	OB	502	GDP	C3'-C4'-C5'-O5'
52	OJ	502	GDP	C3'-C4'-C5'-O5'
50	BM	501	GTP	O4'-C4'-C5'-O5'
50	DE	501	GTP	O4'-C4'-C5'-O5'
50	JC	501	GTP	O4'-C4'-C5'-O5'
50	JC	501	GTP	C3'-C4'-C5'-O5'
50	PI	501	GTP	O4'-C4'-C5'-O5'
50	PI	501	GTP	C3'-C4'-C5'-O5'
50	QI	501	GTP	C3'-C4'-C5'-O5'
50	UE	501	GTP	O4'-C4'-C5'-O5'
50	UE	501	GTP	C3'-C4'-C5'-O5'
50	AA	501	GTP	C3'-C4'-C5'-O5'
50	AO	501	GTP	C3'-C4'-C5'-O5'
50	BM	501	GTP	C3'-C4'-C5'-O5'
50	EC	501	GTP	C3'-C4'-C5'-O5'
50	FK	501	GTP	C3'-C4'-C5'-O5'
50	FM	501	GTP	C3'-C4'-C5'-O5'
50	GE	501	GTP	C3'-C4'-C5'-O5'
50	HA	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
50	HC	501	GTP	C3'-C4'-C5'-O5'
50	HE	501	GTP	C3'-C4'-C5'-O5'
50	JG	501	GTP	C3'-C4'-C5'-O5'
50	LI	501	GTP	C3'-C4'-C5'-O5'
50	NA	501	GTP	C3'-C4'-C5'-O5'
50	NK	501	GTP	C3'-C4'-C5'-O5'
50	NM	501	GTP	C3'-C4'-C5'-O5'
50	OI	501	GTP	C3'-C4'-C5'-O5'
50	PO	501	GTP	C3'-C4'-C5'-O5'
50	QE	501	GTP	C3'-C4'-C5'-O5'
50	UC	501	GTP	C3'-C4'-C5'-O5'
50	UG	501	GTP	C3'-C4'-C5'-O5'
50	VC	501	GTP	C3'-C4'-C5'-O5'
50	VI	501	GTP	C3'-C4'-C5'-O5'
50	WA	501	GTP	C3'-C4'-C5'-O5'
52	MD	502	GDP	C3'-C4'-C5'-O5'
52	PN	502	GDP	C3'-C4'-C5'-O5'
50	AO	501	GTP	O4'-C4'-C5'-O5'
50	BO	501	GTP	C3'-C4'-C5'-O5'
50	CO	501	GTP	C3'-C4'-C5'-O5'
50	DO	501	GTP	C3'-C4'-C5'-O5'
50	EE	501	GTP	C3'-C4'-C5'-O5'
50	FM	501	GTP	O4'-C4'-C5'-O5'
50	GE	501	GTP	O4'-C4'-C5'-O5'
50	HE	501	GTP	O4'-C4'-C5'-O5'
50	IM	501	GTP	C3'-C4'-C5'-O5'
50	JG	501	GTP	O4'-C4'-C5'-O5'
50	LI	501	GTP	O4'-C4'-C5'-O5'
50	NA	501	GTP	O4'-C4'-C5'-O5'
50	NE	501	GTP	C3'-C4'-C5'-O5'
50	NK	501	GTP	O4'-C4'-C5'-O5'
50	PE	501	GTP	C3'-C4'-C5'-O5'
50	QC	501	GTP	C3'-C4'-C5'-O5'
50	QE	501	GTP	O4'-C4'-C5'-O5'
50	QI	501	GTP	O4'-C4'-C5'-O5'
50	SA	501	GTP	C3'-C4'-C5'-O5'
50	SK	501	GTP	C3'-C4'-C5'-O5'
50	UG	501	GTP	O4'-C4'-C5'-O5'
50	VC	501	GTP	O4'-C4'-C5'-O5'
50	VI	501	GTP	O4'-C4'-C5'-O5'
50	WA	501	GTP	O4'-C4'-C5'-O5'
52	PN	502	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
52	UD	502	GDP	C3'-C4'-C5'-O5'
50	AM	501	GTP	C3'-C4'-C5'-O5'
50	DG	501	GTP	C3'-C4'-C5'-O5'
50	EC	501	GTP	O4'-C4'-C5'-O5'
50	FK	501	GTP	O4'-C4'-C5'-O5'
50	IA	501	GTP	C3'-C4'-C5'-O5'
50	JM	501	GTP	C3'-C4'-C5'-O5'
50	OI	501	GTP	O4'-C4'-C5'-O5'
50	PK	501	GTP	C3'-C4'-C5'-O5'
50	SG	501	GTP	C3'-C4'-C5'-O5'
50	TE	501	GTP	C3'-C4'-C5'-O5'
50	UC	501	GTP	O4'-C4'-C5'-O5'
50	WC	501	GTP	C3'-C4'-C5'-O5'
52	QH	502	GDP	PA-O3A-PB-O1B
50	CC	501	GTP	C3'-C4'-C5'-O5'
50	CQ	501	GTP	C3'-C4'-C5'-O5'
50	DI	501	GTP	C3'-C4'-C5'-O5'
50	DM	501	GTP	C3'-C4'-C5'-O5'
50	HA	501	GTP	O4'-C4'-C5'-O5'
50	IC	501	GTP	C3'-C4'-C5'-O5'
50	JE	501	GTP	C3'-C4'-C5'-O5'
50	OE	501	GTP	C3'-C4'-C5'-O5'
50	OM	501	GTP	C3'-C4'-C5'-O5'
50	PM	501	GTP	C3'-C4'-C5'-O5'
50	RC	501	GTP	C3'-C4'-C5'-O5'
50	RE	501	GTP	C3'-C4'-C5'-O5'
50	RO	501	GTP	C3'-C4'-C5'-O5'
50	SC	501	GTP	C3'-C4'-C5'-O5'
50	TA	501	GTP	C3'-C4'-C5'-O5'
50	TK	501	GTP	C3'-C4'-C5'-O5'
50	TM	501	GTP	C3'-C4'-C5'-O5'
50	UM	501	GTP	C3'-C4'-C5'-O5'
50	UO	501	GTP	C3'-C4'-C5'-O5'
50	VA	501	GTP	C3'-C4'-C5'-O5'
52	NN	502	GDP	C3'-C4'-C5'-O5'
50	HA	501	GTP	PA-O3A-PB-O1B
50	HC	501	GTP	PA-O3A-PB-O1B
50	HK	501	GTP	PA-O3A-PB-O1B
50	JI	501	GTP	PB-O3A-PA-O1A
50	KE	501	GTP	PB-O3A-PA-O1A
50	OK	501	GTP	PA-O3A-PB-O1B
50	OO	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
50	SE	501	GTP	PA-O3A-PB-O1B
50	SI	501	GTP	PA-O3A-PB-O1B
50	SK	501	GTP	PA-O3A-PB-O1B
50	TE	501	GTP	PA-O3A-PB-O1B
50	TM	501	GTP	PA-O3A-PB-O1B
50	UE	501	GTP	PA-O3A-PB-O1B
50	UK	501	GTP	PA-O3A-PB-O1B
50	UO	501	GTP	PA-O3A-PB-O1B
50	LE	501	GTP	C4'-C5'-O5'-PA
50	AA	501	GTP	O4'-C4'-C5'-O5'
50	BO	501	GTP	O4'-C4'-C5'-O5'
50	CO	501	GTP	O4'-C4'-C5'-O5'
50	EE	501	GTP	O4'-C4'-C5'-O5'
50	HC	501	GTP	O4'-C4'-C5'-O5'
50	IM	501	GTP	O4'-C4'-C5'-O5'
50	NM	501	GTP	O4'-C4'-C5'-O5'
50	NO	501	GTP	C3'-C4'-C5'-O5'
50	PE	501	GTP	O4'-C4'-C5'-O5'
50	PO	501	GTP	O4'-C4'-C5'-O5'
50	QC	501	GTP	O4'-C4'-C5'-O5'
50	SK	501	GTP	O4'-C4'-C5'-O5'
50	UI	501	GTP	C3'-C4'-C5'-O5'
52	MD	502	GDP	O4'-C4'-C5'-O5'
50	CE	501	GTP	C4'-C5'-O5'-PA
50	DQ	501	GTP	C4'-C5'-O5'-PA
50	EC	501	GTP	C4'-C5'-O5'-PA
50	GG	501	GTP	C4'-C5'-O5'-PA
50	GI	501	GTP	C4'-C5'-O5'-PA
50	IK	501	GTP	C4'-C5'-O5'-PA
50	IO	501	GTP	C4'-C5'-O5'-PA
50	KC	501	GTP	C4'-C5'-O5'-PA
50	MM	501	GTP	C4'-C5'-O5'-PA
50	PI	501	GTP	C4'-C5'-O5'-PA
50	QC	501	GTP	C4'-C5'-O5'-PA
50	VO	501	GTP	C4'-C5'-O5'-PA
50	DO	501	GTP	O4'-C4'-C5'-O5'
50	NE	501	GTP	O4'-C4'-C5'-O5'
50	SA	501	GTP	O4'-C4'-C5'-O5'
52	UD	502	GDP	O4'-C4'-C5'-O5'
50	AM	501	GTP	PB-O3A-PA-O5'
50	FO	501	GTP	PB-O3A-PA-O5'
50	GO	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
50	HC	501	GTP	PB-O3A-PA-O5'
50	HG	501	GTP	PB-O3A-PA-O5'
50	IG	501	GTP	PB-O3A-PA-O5'
50	NG	501	GTP	PB-O3A-PA-O5'
50	NK	501	GTP	PB-O3A-PA-O5'
50	NO	501	GTP	PB-O3A-PA-O5'
50	OE	501	GTP	PB-O3A-PA-O5'
50	OO	501	GTP	PB-O3A-PA-O5'
50	RK	501	GTP	PB-O3A-PA-O5'
50	TM	501	GTP	PB-O3A-PA-O5'
50	UK	501	GTP	PB-O3A-PA-O5'
50	NI	501	GTP	C4'-C5'-O5'-PA
50	OC	501	GTP	C4'-C5'-O5'-PA
50	PK	501	GTP	C4'-C5'-O5'-PA
50	EA	501	GTP	C3'-C4'-C5'-O5'
50	FC	501	GTP	C3'-C4'-C5'-O5'
50	JO	501	GTP	C3'-C4'-C5'-O5'
50	JQ	501	GTP	C3'-C4'-C5'-O5'
50	NC	501	GTP	C3'-C4'-C5'-O5'
50	OG	501	GTP	C3'-C4'-C5'-O5'
50	OO	501	GTP	C3'-C4'-C5'-O5'
50	RG	501	GTP	C3'-C4'-C5'-O5'
50	AM	501	GTP	O4'-C4'-C5'-O5'
50	BE	501	GTP	C3'-C4'-C5'-O5'
50	DQ	501	GTP	C3'-C4'-C5'-O5'
50	EG	501	GTP	C3'-C4'-C5'-O5'
50	EO	501	GTP	C3'-C4'-C5'-O5'
50	FA	501	GTP	C3'-C4'-C5'-O5'
50	JI	501	GTP	C3'-C4'-C5'-O5'
50	KI	501	GTP	C3'-C4'-C5'-O5'
50	MM	501	GTP	C3'-C4'-C5'-O5'
50	OA	501	GTP	C3'-C4'-C5'-O5'
50	QM	501	GTP	C3'-C4'-C5'-O5'
50	TE	501	GTP	O4'-C4'-C5'-O5'
50	TG	501	GTP	C3'-C4'-C5'-O5'
50	TI	501	GTP	C3'-C4'-C5'-O5'
50	UA	501	GTP	C3'-C4'-C5'-O5'
52	MH	502	GDP	C3'-C4'-C5'-O5'
50	FA	501	GTP	C4'-C5'-O5'-PA
50	LC	501	GTP	C4'-C5'-O5'-PA
50	MG	501	GTP	C4'-C5'-O5'-PA
50	AC	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
50	AI	501	GTP	PA-O3A-PB-O2B
50	BC	501	GTP	PA-O3A-PB-O2B
50	BE	501	GTP	PA-O3A-PB-O2B
50	BM	501	GTP	PA-O3A-PB-O2B
50	BO	501	GTP	PA-O3A-PB-O2B
50	CO	501	GTP	PA-O3A-PB-O2B
50	DC	501	GTP	PA-O3A-PB-O2B
50	DE	501	GTP	PA-O3A-PB-O2B
50	DM	501	GTP	PA-O3A-PB-O2B
50	DO	501	GTP	PA-O3A-PB-O2B
50	EA	501	GTP	PA-O3A-PB-O2B
50	EC	501	GTP	PA-O3A-PB-O2B
50	EK	501	GTP	PA-O3A-PB-O2B
50	EM	501	GTP	PA-O3A-PB-O2B
50	FA	501	GTP	PA-O3A-PB-O2B
50	FE	501	GTP	PA-O3A-PB-O2B
50	FG	501	GTP	PA-O3A-PB-O2B
50	FI	501	GTP	PA-O3A-PB-O2B
50	FK	501	GTP	PA-O3A-PB-O2B
50	GA	501	GTP	PA-O3A-PB-O2B
50	GE	501	GTP	PA-O3A-PB-O2B
50	GG	501	GTP	PA-O3A-PB-O2B
50	GI	501	GTP	PA-O3A-PB-O2B
50	GO	501	GTP	PA-O3A-PB-O2B
50	HM	501	GTP	PA-O3A-PB-O2B
50	II	501	GTP	PA-O3A-PB-O2B
50	IK	501	GTP	PA-O3A-PB-O2B
50	IM	501	GTP	PA-O3A-PB-O2B
50	JC	501	GTP	PA-O3A-PB-O2B
50	KE	501	GTP	PA-O3A-PB-O2B
50	KI	501	GTP	PA-O3A-PB-O2B
50	KM	501	GTP	PA-O3A-PB-O2B
50	KO	501	GTP	PA-O3A-PB-O2B
50	LA	501	GTP	PA-O3A-PB-O2B
50	LC	501	GTP	PA-O3A-PB-O2B
50	LG	501	GTP	PA-O3A-PB-O2B
50	LK	501	GTP	PA-O3A-PB-O2B
50	LM	501	GTP	PA-O3A-PB-O2B
50	LO	501	GTP	PA-O3A-PB-O2B
50	MC	501	GTP	PA-O3A-PB-O2B
50	MK	501	GTP	PA-O3A-PB-O2B
50	MM	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
50	MO	501	GTP	PA-O3A-PB-O2B
50	NG	501	GTP	PA-O3A-PB-O1B
50	NK	501	GTP	PA-O3A-PB-O1B
50	NM	501	GTP	PA-O3A-PB-O1B
50	PM	501	GTP	PA-O3A-PB-O2B
50	QE	501	GTP	PA-O3A-PB-O2B
50	QM	501	GTP	PA-O3A-PB-O2B
50	RI	501	GTP	PA-O3A-PB-O2B
50	RK	501	GTP	PA-O3A-PB-O2B
50	SC	501	GTP	PA-O3A-PB-O2B
50	SG	501	GTP	PA-O3A-PB-O1B
50	TC	501	GTP	PA-O3A-PB-O1B
50	VE	501	GTP	PA-O3A-PB-O2B
50	VG	501	GTP	PA-O3A-PB-O2B
50	VI	501	GTP	PA-O3A-PB-O2B
50	VK	501	GTP	PA-O3A-PB-O2B
50	VM	501	GTP	PA-O3A-PB-O2B
50	WA	501	GTP	PA-O3A-PB-O2B
50	WC	501	GTP	PA-O3A-PB-O2B
50	WG	501	GTP	PA-O3A-PB-O2B
50	WM	501	GTP	PA-O3A-PB-O2B
50	WO	501	GTP	PA-O3A-PB-O2B
50	AE	501	GTP	C3'-C4'-C5'-O5'
50	FI	501	GTP	C3'-C4'-C5'-O5'
50	GA	501	GTP	C3'-C4'-C5'-O5'
50	NG	501	GTP	C3'-C4'-C5'-O5'
50	PK	501	GTP	O4'-C4'-C5'-O5'
50	SI	501	GTP	C3'-C4'-C5'-O5'
50	WC	501	GTP	O4'-C4'-C5'-O5'
50	WK	501	GTP	C3'-C4'-C5'-O5'
52	DP	502	GDP	C3'-C4'-C5'-O5'
52	OD	502	GDP	C3'-C4'-C5'-O5'
50	BK	501	GTP	C4'-C5'-O5'-PA
50	BO	501	GTP	C4'-C5'-O5'-PA
50	CI	501	GTP	C4'-C5'-O5'-PA
50	CO	501	GTP	C4'-C5'-O5'-PA
50	DE	501	GTP	C4'-C5'-O5'-PA
50	DI	501	GTP	C4'-C5'-O5'-PA
50	DM	501	GTP	C4'-C5'-O5'-PA
50	DO	501	GTP	C4'-C5'-O5'-PA
50	EA	501	GTP	C4'-C5'-O5'-PA
50	EG	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
50	EI	501	GTP	C4'-C5'-O5'-PA
50	EM	501	GTP	C4'-C5'-O5'-PA
50	FC	501	GTP	C4'-C5'-O5'-PA
50	FI	501	GTP	C4'-C5'-O5'-PA
50	FK	501	GTP	C4'-C5'-O5'-PA
50	GA	501	GTP	C4'-C5'-O5'-PA
50	GK	501	GTP	C4'-C5'-O5'-PA
50	GM	501	GTP	C4'-C5'-O5'-PA
50	GO	501	GTP	C4'-C5'-O5'-PA
50	HI	501	GTP	C4'-C5'-O5'-PA
50	HM	501	GTP	C4'-C5'-O5'-PA
50	IA	501	GTP	C4'-C5'-O5'-PA
50	IC	501	GTP	C4'-C5'-O5'-PA
50	II	501	GTP	C4'-C5'-O5'-PA
50	JM	501	GTP	C4'-C5'-O5'-PA
50	KA	501	GTP	C4'-C5'-O5'-PA
50	KO	501	GTP	C4'-C5'-O5'-PA
50	LA	501	GTP	C4'-C5'-O5'-PA
50	LI	501	GTP	C4'-C5'-O5'-PA
50	LO	501	GTP	C4'-C5'-O5'-PA
50	MA	501	GTP	C4'-C5'-O5'-PA
50	MC	501	GTP	C4'-C5'-O5'-PA
50	MO	501	GTP	C4'-C5'-O5'-PA
50	NA	501	GTP	C4'-C5'-O5'-PA
50	NG	501	GTP	C4'-C5'-O5'-PA
50	NM	501	GTP	C4'-C5'-O5'-PA
50	NO	501	GTP	C4'-C5'-O5'-PA
50	OM	501	GTP	C4'-C5'-O5'-PA
50	PE	501	GTP	C4'-C5'-O5'-PA
50	QG	501	GTP	C4'-C5'-O5'-PA
50	QK	501	GTP	C4'-C5'-O5'-PA
50	QO	501	GTP	C4'-C5'-O5'-PA
50	RE	501	GTP	C4'-C5'-O5'-PA
50	RI	501	GTP	C4'-C5'-O5'-PA
50	RM	501	GTP	C4'-C5'-O5'-PA
50	SE	501	GTP	C4'-C5'-O5'-PA
50	TE	501	GTP	C4'-C5'-O5'-PA
50	TG	501	GTP	C4'-C5'-O5'-PA
50	UA	501	GTP	C4'-C5'-O5'-PA
50	UE	501	GTP	C4'-C5'-O5'-PA
50	UK	501	GTP	C4'-C5'-O5'-PA
50	UM	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
50	UO	501	GTP	C4'-C5'-O5'-PA
50	VG	501	GTP	C4'-C5'-O5'-PA
50	VK	501	GTP	C4'-C5'-O5'-PA
50	WI	501	GTP	C4'-C5'-O5'-PA
50	WM	501	GTP	C4'-C5'-O5'-PA
50	WO	501	GTP	C4'-C5'-O5'-PA
50	CC	501	GTP	O4'-C4'-C5'-O5'
50	CQ	501	GTP	O4'-C4'-C5'-O5'
50	DG	501	GTP	O4'-C4'-C5'-O5'
50	DI	501	GTP	O4'-C4'-C5'-O5'
50	IA	501	GTP	O4'-C4'-C5'-O5'
50	IC	501	GTP	O4'-C4'-C5'-O5'
50	JE	501	GTP	O4'-C4'-C5'-O5'
50	JM	501	GTP	O4'-C4'-C5'-O5'
50	OE	501	GTP	O4'-C4'-C5'-O5'
50	PC	501	GTP	C3'-C4'-C5'-O5'
50	PM	501	GTP	O4'-C4'-C5'-O5'
50	RC	501	GTP	O4'-C4'-C5'-O5'
50	RE	501	GTP	O4'-C4'-C5'-O5'
50	RO	501	GTP	O4'-C4'-C5'-O5'
50	SC	501	GTP	O4'-C4'-C5'-O5'
50	SG	501	GTP	O4'-C4'-C5'-O5'
50	TA	501	GTP	O4'-C4'-C5'-O5'
50	TK	501	GTP	O4'-C4'-C5'-O5'
50	TM	501	GTP	O4'-C4'-C5'-O5'
50	UM	501	GTP	O4'-C4'-C5'-O5'
50	VA	501	GTP	O4'-C4'-C5'-O5'
52	NN	502	GDP	O4'-C4'-C5'-O5'
50	BI	501	GTP	C5'-O5'-PA-O2A
50	BM	501	GTP	C5'-O5'-PA-O2A
50	CK	501	GTP	C5'-O5'-PA-O2A
50	DC	501	GTP	C5'-O5'-PA-O2A
50	DI	501	GTP	C5'-O5'-PA-O2A
50	II	501	GTP	C5'-O5'-PA-O3A
50	II	501	GTP	C5'-O5'-PA-O2A
50	IM	501	GTP	C5'-O5'-PA-O2A
50	IO	501	GTP	C5'-O5'-PA-O2A
50	ME	501	GTP	C5'-O5'-PA-O2A
50	NE	501	GTP	C5'-O5'-PA-O1A
50	QO	501	GTP	C5'-O5'-PA-O2A
50	VG	501	GTP	C5'-O5'-PA-O2A
52	AH	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
52	AJ	502	GDP	C5'-O5'-PA-O1A
52	AL	502	GDP	C5'-O5'-PA-O1A
52	AP	502	GDP	C5'-O5'-PA-O1A
52	BD	502	GDP	C5'-O5'-PA-O1A
52	BF	502	GDP	C5'-O5'-PA-O1A
52	BP	502	GDP	C5'-O5'-PA-O1A
52	CB	502	GDP	C5'-O5'-PA-O1A
52	CD	502	GDP	C5'-O5'-PA-O1A
52	CF	502	GDP	C5'-O5'-PA-O1A
52	CJ	502	GDP	C5'-O5'-PA-O1A
52	CP	502	GDP	C5'-O5'-PA-O1A
52	DB	502	GDP	C5'-O5'-PA-O1A
52	DD	502	GDP	C5'-O5'-PA-O1A
52	EB	502	GDP	C5'-O5'-PA-O1A
52	ED	502	GDP	C5'-O5'-PA-O1A
52	EF	502	GDP	C5'-O5'-PA-O1A
52	EH	502	GDP	C5'-O5'-PA-O1A
52	EJ	502	GDP	C5'-O5'-PA-O1A
52	EN	502	GDP	C5'-O5'-PA-O1A
52	FB	502	GDP	C5'-O5'-PA-O1A
52	FF	502	GDP	C5'-O5'-PA-O1A
52	FH	502	GDP	C5'-O5'-PA-O1A
52	FJ	502	GDP	C5'-O5'-PA-O1A
52	FN	502	GDP	C5'-O5'-PA-O1A
52	GB	502	GDP	C5'-O5'-PA-O1A
52	GH	502	GDP	C5'-O5'-PA-O1A
52	GJ	502	GDP	C5'-O5'-PA-O1A
52	GN	502	GDP	C5'-O5'-PA-O1A
52	HD	502	GDP	C5'-O5'-PA-O1A
52	HL	502	GDP	C5'-O5'-PA-O1A
52	IB	502	GDP	C5'-O5'-PA-O1A
52	IF	502	GDP	C5'-O5'-PA-O1A
52	IN	502	GDP	C5'-O5'-PA-O1A
52	IP	502	GDP	C5'-O5'-PA-O1A
52	JB	502	GDP	C5'-O5'-PA-O1A
52	JD	502	GDP	C5'-O5'-PA-O1A
52	JN	502	GDP	C5'-O5'-PA-O1A
52	KF	502	GDP	C5'-O5'-PA-O1A
52	KH	502	GDP	C5'-O5'-PA-O1A
52	KL	502	GDP	C5'-O5'-PA-O1A
52	KN	502	GDP	C5'-O5'-PA-O1A
52	LF	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
52	LH	502	GDP	C5'-O5'-PA-O3A
52	LJ	502	GDP	C5'-O5'-PA-O1A
52	LP	502	GDP	C5'-O5'-PA-O1A
52	MD	502	GDP	C5'-O5'-PA-O1A
52	MN	502	GDP	C5'-O5'-PA-O3A
52	NB	502	GDP	C5'-O5'-PA-O1A
52	NL	502	GDP	C5'-O5'-PA-O1A
52	NN	502	GDP	C5'-O5'-PA-O3A
52	NP	502	GDP	C5'-O5'-PA-O1A
52	OL	502	GDP	C5'-O5'-PA-O1A
52	ON	502	GDP	C5'-O5'-PA-O1A
52	PB	502	GDP	C5'-O5'-PA-O1A
52	PD	502	GDP	C5'-O5'-PA-O1A
52	PF	502	GDP	C5'-O5'-PA-O1A
52	PH	502	GDP	C5'-O5'-PA-O1A
52	PJ	502	GDP	C5'-O5'-PA-O1A
52	PN	502	GDP	C5'-O5'-PA-O1A
52	QB	502	GDP	C5'-O5'-PA-O1A
52	QD	502	GDP	C5'-O5'-PA-O1A
52	QF	502	GDP	C5'-O5'-PA-O1A
52	QN	502	GDP	C5'-O5'-PA-O1A
52	QP	502	GDP	C5'-O5'-PA-O1A
52	RF	502	GDP	C5'-O5'-PA-O1A
52	RH	502	GDP	C5'-O5'-PA-O1A
52	SB	502	GDP	C5'-O5'-PA-O1A
52	TB	502	GDP	C5'-O5'-PA-O1A
52	TD	502	GDP	C5'-O5'-PA-O1A
52	TF	502	GDP	C5'-O5'-PA-O1A
52	TJ	502	GDP	C5'-O5'-PA-O1A
52	TL	502	GDP	C5'-O5'-PA-O1A
52	TN	502	GDP	C5'-O5'-PA-O1A
52	UB	502	GDP	C5'-O5'-PA-O1A
52	UH	502	GDP	C5'-O5'-PA-O1A
52	UJ	502	GDP	C5'-O5'-PA-O1A
52	UL	502	GDP	C5'-O5'-PA-O1A
52	UN	502	GDP	C5'-O5'-PA-O1A
52	VD	502	GDP	C5'-O5'-PA-O1A
52	VF	502	GDP	C5'-O5'-PA-O1A
52	VH	502	GDP	C5'-O5'-PA-O1A
52	VJ	502	GDP	C5'-O5'-PA-O1A
52	VL	502	GDP	C5'-O5'-PA-O1A
52	VN	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
52	WD	502	GDP	C5'-O5'-PA-O1A
52	WF	502	GDP	C5'-O5'-PA-O1A
52	WH	502	GDP	C5'-O5'-PA-O1A
52	WJ	502	GDP	C5'-O5'-PA-O1A
52	WL	502	GDP	C5'-O5'-PA-O1A
52	WP	502	GDP	C5'-O5'-PA-O1A
50	AA	501	GTP	C4'-C5'-O5'-PA
50	AC	501	GTP	C4'-C5'-O5'-PA
50	AE	501	GTP	C4'-C5'-O5'-PA
50	AG	501	GTP	C4'-C5'-O5'-PA
50	AI	501	GTP	C4'-C5'-O5'-PA
50	AK	501	GTP	C4'-C5'-O5'-PA
50	AM	501	GTP	C4'-C5'-O5'-PA
50	AO	501	GTP	C4'-C5'-O5'-PA
50	BC	501	GTP	C4'-C5'-O5'-PA
50	BE	501	GTP	C4'-C5'-O5'-PA
50	BG	501	GTP	C4'-C5'-O5'-PA
50	BI	501	GTP	C4'-C5'-O5'-PA
50	BM	501	GTP	C4'-C5'-O5'-PA
50	CC	501	GTP	C4'-C5'-O5'-PA
50	CG	501	GTP	C4'-C5'-O5'-PA
50	CM	501	GTP	C4'-C5'-O5'-PA
50	CQ	501	GTP	C4'-C5'-O5'-PA
50	DC	501	GTP	C4'-C5'-O5'-PA
50	DG	501	GTP	C4'-C5'-O5'-PA
50	DK	501	GTP	C4'-C5'-O5'-PA
50	EE	501	GTP	C4'-C5'-O5'-PA
50	EK	501	GTP	C4'-C5'-O5'-PA
50	EO	501	GTP	C4'-C5'-O5'-PA
50	FE	501	GTP	C4'-C5'-O5'-PA
50	FM	501	GTP	C4'-C5'-O5'-PA
50	GC	501	GTP	C4'-C5'-O5'-PA
50	GE	501	GTP	C4'-C5'-O5'-PA
50	HA	501	GTP	C4'-C5'-O5'-PA
50	HE	501	GTP	C4'-C5'-O5'-PA
50	HG	501	GTP	C4'-C5'-O5'-PA
50	HK	501	GTP	C4'-C5'-O5'-PA
50	HO	501	GTP	C4'-C5'-O5'-PA
50	IE	501	GTP	C4'-C5'-O5'-PA
50	IG	501	GTP	C4'-C5'-O5'-PA
50	IM	501	GTP	C4'-C5'-O5'-PA
50	JC	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
50	JE	501	GTP	C4'-C5'-O5'-PA
50	JQ	501	GTP	C4'-C5'-O5'-PA
50	KE	501	GTP	C4'-C5'-O5'-PA
50	KG	501	GTP	C4'-C5'-O5'-PA
50	KI	501	GTP	C4'-C5'-O5'-PA
50	KK	501	GTP	C4'-C5'-O5'-PA
50	KM	501	GTP	C4'-C5'-O5'-PA
50	LG	501	GTP	C4'-C5'-O5'-PA
50	LK	501	GTP	C4'-C5'-O5'-PA
50	LM	501	GTP	C4'-C5'-O5'-PA
50	MK	501	GTP	C4'-C5'-O5'-PA
50	NC	501	GTP	C4'-C5'-O5'-PA
50	NE	501	GTP	C4'-C5'-O5'-PA
50	NK	501	GTP	C4'-C5'-O5'-PA
50	OA	501	GTP	C4'-C5'-O5'-PA
50	OE	501	GTP	C4'-C5'-O5'-PA
50	OG	501	GTP	C4'-C5'-O5'-PA
50	OI	501	GTP	C4'-C5'-O5'-PA
50	OK	501	GTP	C4'-C5'-O5'-PA
50	OO	501	GTP	C4'-C5'-O5'-PA
50	PC	501	GTP	C4'-C5'-O5'-PA
50	PG	501	GTP	C4'-C5'-O5'-PA
50	PM	501	GTP	C4'-C5'-O5'-PA
50	PO	501	GTP	C4'-C5'-O5'-PA
50	QE	501	GTP	C4'-C5'-O5'-PA
50	QI	501	GTP	C4'-C5'-O5'-PA
50	QM	501	GTP	C4'-C5'-O5'-PA
50	RC	501	GTP	C4'-C5'-O5'-PA
50	RG	501	GTP	C4'-C5'-O5'-PA
50	RK	501	GTP	C4'-C5'-O5'-PA
50	RO	501	GTP	C4'-C5'-O5'-PA
50	SA	501	GTP	C4'-C5'-O5'-PA
50	SG	501	GTP	C4'-C5'-O5'-PA
50	SI	501	GTP	C4'-C5'-O5'-PA
50	SK	501	GTP	C4'-C5'-O5'-PA
50	SM	501	GTP	C4'-C5'-O5'-PA
50	TA	501	GTP	C4'-C5'-O5'-PA
50	TC	501	GTP	C4'-C5'-O5'-PA
50	TI	501	GTP	C4'-C5'-O5'-PA
50	TK	501	GTP	C4'-C5'-O5'-PA
50	TM	501	GTP	C4'-C5'-O5'-PA
50	UC	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
50	UG	501	GTP	C4'-C5'-O5'-PA
50	UI	501	GTP	C4'-C5'-O5'-PA
50	VA	501	GTP	C4'-C5'-O5'-PA
50	VC	501	GTP	C4'-C5'-O5'-PA
50	VE	501	GTP	C4'-C5'-O5'-PA
50	WA	501	GTP	C4'-C5'-O5'-PA
50	WC	501	GTP	C4'-C5'-O5'-PA
50	WE	501	GTP	C4'-C5'-O5'-PA
50	WG	501	GTP	C4'-C5'-O5'-PA
50	WK	501	GTP	C4'-C5'-O5'-PA
50	CK	501	GTP	C3'-C4'-C5'-O5'
50	DM	501	GTP	O4'-C4'-C5'-O5'
50	NO	501	GTP	O4'-C4'-C5'-O5'
50	OM	501	GTP	O4'-C4'-C5'-O5'
50	RG	501	GTP	O4'-C4'-C5'-O5'
50	SE	501	GTP	C3'-C4'-C5'-O5'
50	UI	501	GTP	O4'-C4'-C5'-O5'
50	UO	501	GTP	O4'-C4'-C5'-O5'
52	VB	502	GDP	C3'-C4'-C5'-O5'
50	FG	501	GTP	C4'-C5'-O5'-PA
50	FO	501	GTP	C4'-C5'-O5'-PA
50	HC	501	GTP	C4'-C5'-O5'-PA
50	JG	501	GTP	C4'-C5'-O5'-PA
50	MI	501	GTP	C4'-C5'-O5'-PA
50	VI	501	GTP	C4'-C5'-O5'-PA
50	VM	501	GTP	C4'-C5'-O5'-PA
50	AE	501	GTP	PA-O3A-PB-O2B
50	AG	501	GTP	PA-O3A-PB-O2B
50	AK	501	GTP	PA-O3A-PB-O2B
50	AM	501	GTP	PA-O3A-PB-O2B
50	AO	501	GTP	PA-O3A-PB-O2B
50	BG	501	GTP	PA-O3A-PB-O2B
50	BI	501	GTP	PA-O3A-PB-O2B
50	BK	501	GTP	PA-O3A-PB-O2B
50	CC	501	GTP	PA-O3A-PB-O2B
50	CE	501	GTP	PA-O3A-PB-O2B
50	CG	501	GTP	PB-O3A-PA-O1A
50	CI	501	GTP	PA-O3A-PB-O2B
50	CM	501	GTP	PA-O3A-PB-O2B
50	CQ	501	GTP	PA-O3A-PB-O2B
50	DG	501	GTP	PA-O3A-PB-O2B
50	DI	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
50	DQ	501	GTP	PA-O3A-PB-O2B
50	EE	501	GTP	PA-O3A-PB-O2B
50	EO	501	GTP	PA-O3A-PB-O2B
50	FC	501	GTP	PA-O3A-PB-O2B
50	FM	501	GTP	PA-O3A-PB-O2B
50	FO	501	GTP	PA-O3A-PB-O2B
50	GC	501	GTP	PA-O3A-PB-O2B
50	GK	501	GTP	PA-O3A-PB-O2B
50	GM	501	GTP	PA-O3A-PB-O2B
50	HG	501	GTP	PA-O3A-PB-O2B
50	HI	501	GTP	PA-O3A-PB-O2B
50	IA	501	GTP	PA-O3A-PB-O2B
50	IC	501	GTP	PA-O3A-PB-O2B
50	IE	501	GTP	PA-O3A-PB-O2B
50	IG	501	GTP	PA-O3A-PB-O2B
50	KA	501	GTP	PA-O3A-PB-O2B
50	KC	501	GTP	PA-O3A-PB-O2B
50	KG	501	GTP	PA-O3A-PB-O2B
50	KK	501	GTP	PA-O3A-PB-O2B
50	LE	501	GTP	PA-O3A-PB-O2B
50	LI	501	GTP	PA-O3A-PB-O2B
50	MA	501	GTP	PA-O3A-PB-O2B
50	MG	501	GTP	PA-O3A-PB-O2B
50	MI	501	GTP	PA-O3A-PB-O2B
50	NA	501	GTP	PA-O3A-PB-O1B
50	NI	501	GTP	PA-O3A-PB-O1B
50	NO	501	GTP	PA-O3A-PB-O1B
50	OA	501	GTP	PA-O3A-PB-O2B
50	OC	501	GTP	PA-O3A-PB-O2B
50	OE	501	GTP	PA-O3A-PB-O2B
50	OG	501	GTP	PA-O3A-PB-O1B
50	OI	501	GTP	PA-O3A-PB-O2B
50	OM	501	GTP	PA-O3A-PB-O2B
50	PC	501	GTP	PA-O3A-PB-O2B
50	PE	501	GTP	PA-O3A-PB-O2B
50	PG	501	GTP	PA-O3A-PB-O2B
50	PI	501	GTP	PA-O3A-PB-O2B
50	PK	501	GTP	PA-O3A-PB-O2B
50	PO	501	GTP	PA-O3A-PB-O2B
50	QC	501	GTP	PA-O3A-PB-O2B
50	QG	501	GTP	PA-O3A-PB-O2B
50	QK	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
50	QO	501	GTP	PA-O3A-PB-O2B
50	RC	501	GTP	PA-O3A-PB-O2B
50	RE	501	GTP	PA-O3A-PB-O2B
50	RG	501	GTP	PA-O3A-PB-O2B
50	RM	501	GTP	PA-O3A-PB-O2B
50	RO	501	GTP	PA-O3A-PB-O1B
50	SA	501	GTP	PA-O3A-PB-O2B
50	SM	501	GTP	PA-O3A-PB-O1B
50	TG	501	GTP	PA-O3A-PB-O2B
50	TI	501	GTP	PA-O3A-PB-O2B
50	TK	501	GTP	PA-O3A-PB-O2B
50	UA	501	GTP	PA-O3A-PB-O1B
50	UC	501	GTP	PA-O3A-PB-O1B
50	UG	501	GTP	PA-O3A-PB-O1B
50	VC	501	GTP	PA-O3A-PB-O2B
50	VO	501	GTP	PA-O3A-PB-O2B
50	WE	501	GTP	PA-O3A-PB-O2B
50	WI	501	GTP	PA-O3A-PB-O2B
50	AI	501	GTP	C3'-C4'-C5'-O5'
50	MO	501	GTP	C3'-C4'-C5'-O5'
50	SM	501	GTP	C3'-C4'-C5'-O5'
52	ON	502	GDP	C3'-C4'-C5'-O5'
50	CK	501	GTP	C4'-C5'-O5'-PA
50	ME	501	GTP	C4'-C5'-O5'-PA
50	BG	501	GTP	C3'-C4'-C5'-O5'
50	NC	501	GTP	O4'-C4'-C5'-O5'
52	ML	502	GDP	C3'-C4'-C5'-O5'
50	FC	501	GTP	O4'-C4'-C5'-O5'
50	SC	501	GTP	C4'-C5'-O5'-PA
50	BE	501	GTP	O4'-C4'-C5'-O5'
50	BK	501	GTP	C3'-C4'-C5'-O5'
50	DQ	501	GTP	O4'-C4'-C5'-O5'
50	EA	501	GTP	O4'-C4'-C5'-O5'
50	EO	501	GTP	O4'-C4'-C5'-O5'
50	JO	501	GTP	O4'-C4'-C5'-O5'
50	JQ	501	GTP	O4'-C4'-C5'-O5'
50	MM	501	GTP	O4'-C4'-C5'-O5'
50	OA	501	GTP	O4'-C4'-C5'-O5'
50	OG	501	GTP	O4'-C4'-C5'-O5'
50	OO	501	GTP	O4'-C4'-C5'-O5'
50	QM	501	GTP	O4'-C4'-C5'-O5'
50	TG	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
50	TI	501	GTP	O4'-C4'-C5'-O5'
50	UA	501	GTP	O4'-C4'-C5'-O5'
52	LL	502	GDP	C3'-C4'-C5'-O5'
50	AA	501	GTP	PA-O3A-PB-O1B
50	AE	501	GTP	PA-O3A-PB-O1B
50	HI	501	GTP	PA-O3A-PB-O1B
50	MG	501	GTP	PA-O3A-PB-O1B
50	NG	501	GTP	PA-O3A-PB-O2B
50	NI	501	GTP	PA-O3A-PB-O2B
50	NO	501	GTP	PA-O3A-PB-O2B
50	OC	501	GTP	PA-O3A-PB-O1B
50	OK	501	GTP	PA-O3A-PB-O2B
50	RE	501	GTP	PA-O3A-PB-O1B
50	SG	501	GTP	PA-O3A-PB-O2B
50	SM	501	GTP	PA-O3A-PB-O2B
50	TA	501	GTP	PA-O3A-PB-O1B
50	TA	501	GTP	PA-O3A-PB-O2B
50	UI	501	GTP	PA-O3A-PB-O1B
50	UM	501	GTP	PA-O3A-PB-O1B
50	UM	501	GTP	PA-O3A-PB-O2B
50	VA	501	GTP	PA-O3A-PB-O1B
50	UG	501	GTP	PB-O3A-PA-O5'
50	JI	501	GTP	C4'-C5'-O5'-PA
50	JO	501	GTP	C4'-C5'-O5'-PA
50	EG	501	GTP	O4'-C4'-C5'-O5'
50	FA	501	GTP	O4'-C4'-C5'-O5'
50	JI	501	GTP	O4'-C4'-C5'-O5'
50	KI	501	GTP	O4'-C4'-C5'-O5'
52	MH	502	GDP	O4'-C4'-C5'-O5'
50	AE	501	GTP	O4'-C4'-C5'-O5'
50	CE	501	GTP	C3'-C4'-C5'-O5'
50	CG	501	GTP	C3'-C4'-C5'-O5'
50	NG	501	GTP	O4'-C4'-C5'-O5'
50	RI	501	GTP	C3'-C4'-C5'-O5'
50	SI	501	GTP	O4'-C4'-C5'-O5'
52	OD	502	GDP	O4'-C4'-C5'-O5'
50	AI	501	GTP	O4'-C4'-C5'-O5'
50	FI	501	GTP	O4'-C4'-C5'-O5'
50	GA	501	GTP	O4'-C4'-C5'-O5'
50	LO	501	GTP	C3'-C4'-C5'-O5'
50	PC	501	GTP	O4'-C4'-C5'-O5'
52	DP	502	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
52	IB	502	GDP	C3'-C4'-C5'-O5'
52	VB	502	GDP	O4'-C4'-C5'-O5'
50	GK	501	GTP	C3'-C4'-C5'-O5'
50	LM	501	GTP	C3'-C4'-C5'-O5'
50	RM	501	GTP	C3'-C4'-C5'-O5'
50	WK	501	GTP	O4'-C4'-C5'-O5'
50	WM	501	GTP	C3'-C4'-C5'-O5'
50	WO	501	GTP	C3'-C4'-C5'-O5'
52	LD	502	GDP	C3'-C4'-C5'-O5'
52	LH	502	GDP	C3'-C4'-C5'-O5'
52	OF	502	GDP	C3'-C4'-C5'-O5'
50	AA	501	GTP	PA-O3A-PB-O2B
50	AC	501	GTP	PA-O3A-PB-O1B
50	AG	501	GTP	PA-O3A-PB-O1B
50	AI	501	GTP	PA-O3A-PB-O1B
50	AK	501	GTP	PA-O3A-PB-O1B
50	AM	501	GTP	PA-O3A-PB-O1B
50	AO	501	GTP	PA-O3A-PB-O1B
50	BC	501	GTP	PA-O3A-PB-O1B
50	BE	501	GTP	PA-O3A-PB-O1B
50	BK	501	GTP	PA-O3A-PB-O1B
50	BO	501	GTP	PA-O3A-PB-O1B
50	CC	501	GTP	PA-O3A-PB-O1B
50	CO	501	GTP	PA-O3A-PB-O1B
50	CQ	501	GTP	PA-O3A-PB-O1B
50	DG	501	GTP	PA-O3A-PB-O1B
50	DK	501	GTP	PA-O3A-PB-O1B
50	DK	501	GTP	PA-O3A-PB-O2B
50	DM	501	GTP	PA-O3A-PB-O1B
50	DO	501	GTP	PA-O3A-PB-O1B
50	DQ	501	GTP	PA-O3A-PB-O1B
50	EG	501	GTP	PA-O3A-PB-O2B
50	EI	501	GTP	PA-O3A-PB-O1B
50	EI	501	GTP	PA-O3A-PB-O2B
50	EO	501	GTP	PA-O3A-PB-O1B
50	FG	501	GTP	PA-O3A-PB-O1B
50	FK	501	GTP	PA-O3A-PB-O1B
50	FM	501	GTP	PA-O3A-PB-O1B
50	FO	501	GTP	PA-O3A-PB-O1B
50	GA	501	GTP	PA-O3A-PB-O1B
50	GC	501	GTP	PA-O3A-PB-O1B
50	GG	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
50	GK	501	GTP	PA-O3A-PB-O1B
50	GM	501	GTP	PA-O3A-PB-O1B
50	HA	501	GTP	PA-O3A-PB-O2B
50	HC	501	GTP	PA-O3A-PB-O2B
50	HG	501	GTP	PA-O3A-PB-O1B
50	HO	501	GTP	PB-O3A-PA-O1A
50	IA	501	GTP	PA-O3A-PB-O1B
50	IE	501	GTP	PA-O3A-PB-O1B
50	IO	501	GTP	PA-O3A-PB-O1B
50	IO	501	GTP	PA-O3A-PB-O2B
50	JI	501	GTP	PB-O3A-PA-O2A
50	KE	501	GTP	PB-O3A-PA-O2A
50	KK	501	GTP	PA-O3A-PB-O1B
50	LA	501	GTP	PA-O3A-PB-O1B
50	LC	501	GTP	PA-O3A-PB-O1B
50	LE	501	GTP	PA-O3A-PB-O1B
50	MA	501	GTP	PA-O3A-PB-O1B
50	MC	501	GTP	PB-O3A-PA-O1A
50	MM	501	GTP	PA-O3A-PB-O2B
50	NA	501	GTP	PA-O3A-PB-O2B
50	NK	501	GTP	PA-O3A-PB-O2B
50	NM	501	GTP	PA-O3A-PB-O2B
50	OG	501	GTP	PA-O3A-PB-O2B
50	OI	501	GTP	PA-O3A-PB-O1B
50	OM	501	GTP	PA-O3A-PB-O1B
50	OO	501	GTP	PA-O3A-PB-O2B
50	PC	501	GTP	PA-O3A-PB-O1B
50	PG	501	GTP	PA-O3A-PB-O1B
50	PI	501	GTP	PA-O3A-PB-O1B
50	PM	501	GTP	PA-O3A-PB-O1B
50	PO	501	GTP	PA-O3A-PB-O1B
50	QC	501	GTP	PA-O3A-PB-O1B
50	QG	501	GTP	PA-O3A-PB-O1B
50	QI	501	GTP	PA-O3A-PB-O1B
50	QI	501	GTP	PA-O3A-PB-O2B
50	QK	501	GTP	PA-O3A-PB-O1B
50	QM	501	GTP	PA-O3A-PB-O1B
50	RC	501	GTP	PA-O3A-PB-O1B
50	RI	501	GTP	PA-O3A-PB-O1B
50	RK	501	GTP	PA-O3A-PB-O1B
50	RM	501	GTP	PA-O3A-PB-O1B
50	RO	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
50	SA	501	GTP	PA-O3A-PB-O1B
50	SK	501	GTP	PA-O3A-PB-O2B
50	TC	501	GTP	PA-O3A-PB-O2B
50	TE	501	GTP	PA-O3A-PB-O2B
50	TG	501	GTP	PA-O3A-PB-O1B
50	TI	501	GTP	PA-O3A-PB-O1B
50	TK	501	GTP	PA-O3A-PB-O1B
50	TM	501	GTP	PA-O3A-PB-O2B
50	UA	501	GTP	PA-O3A-PB-O2B
50	UG	501	GTP	PA-O3A-PB-O2B
50	UK	501	GTP	PA-O3A-PB-O2B
50	VA	501	GTP	PA-O3A-PB-O2B
50	VC	501	GTP	PA-O3A-PB-O1B
50	VG	501	GTP	PA-O3A-PB-O1B
50	VI	501	GTP	PA-O3A-PB-O1B
50	VO	501	GTP	PA-O3A-PB-O1B
50	WA	501	GTP	PA-O3A-PB-O1B
50	WE	501	GTP	PA-O3A-PB-O1B
50	WG	501	GTP	PA-O3A-PB-O1B
50	WI	501	GTP	PA-O3A-PB-O1B
50	EI	501	GTP	C3'-C4'-C5'-O5'
50	JK	501	GTP	C4'-C5'-O5'-PA
52	GJ	502	GDP	PA-O3A-PB-O1B
50	BG	501	GTP	O4'-C4'-C5'-O5'
50	CK	501	GTP	O4'-C4'-C5'-O5'
50	EK	501	GTP	C3'-C4'-C5'-O5'
50	MK	501	GTP	C3'-C4'-C5'-O5'
50	MO	501	GTP	O4'-C4'-C5'-O5'
50	SE	501	GTP	O4'-C4'-C5'-O5'
50	SM	501	GTP	O4'-C4'-C5'-O5'
50	WE	501	GTP	C3'-C4'-C5'-O5'
52	LF	502	GDP	C3'-C4'-C5'-O5'
52	OH	502	GDP	C3'-C4'-C5'-O5'
52	ON	502	GDP	O4'-C4'-C5'-O5'
50	BG	501	GTP	PA-O3A-PB-O1B
50	BI	501	GTP	PA-O3A-PB-O1B
50	CI	501	GTP	PA-O3A-PB-O1B
50	CM	501	GTP	PA-O3A-PB-O1B
50	DI	501	GTP	PA-O3A-PB-O1B
50	EE	501	GTP	PA-O3A-PB-O1B
50	FC	501	GTP	PA-O3A-PB-O1B
50	HK	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
50	IC	501	GTP	PA-O3A-PB-O1B
50	IG	501	GTP	PA-O3A-PB-O1B
50	JQ	501	GTP	PA-O3A-PB-O2B
50	ME	501	GTP	PA-O3A-PB-O2B
50	MI	501	GTP	PA-O3A-PB-O1B
50	OA	501	GTP	PA-O3A-PB-O1B
50	OE	501	GTP	PA-O3A-PB-O1B
50	PE	501	GTP	PA-O3A-PB-O1B
50	PK	501	GTP	PA-O3A-PB-O1B
50	RG	501	GTP	PA-O3A-PB-O1B
50	SE	501	GTP	PA-O3A-PB-O2B
50	SI	501	GTP	PA-O3A-PB-O2B
50	UE	501	GTP	PA-O3A-PB-O2B
50	UO	501	GTP	PA-O3A-PB-O2B
50	WK	501	GTP	PA-O3A-PB-O2B
50	GO	501	GTP	C3'-C4'-C5'-O5'
50	KA	501	GTP	C3'-C4'-C5'-O5'
50	MA	501	GTP	C3'-C4'-C5'-O5'

There are no ring outliers.

190 monomers are involved in 275 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
52	KP	502	GDP	1	0
52	QP	502	GDP	1	0
50	FE	501	GTP	1	0
52	ED	502	GDP	1	0
52	QD	502	GDP	1	0
52	PP	502	GDP	1	0
52	IL	502	GDP	3	0
50	SG	501	GTP	1	0
52	RD	502	GDP	1	0
52	BF	502	GDP	2	0
52	HH	502	GDP	3	0
50	MI	501	GTP	1	0
50	KK	501	GTP	1	0
50	JQ	501	GTP	1	0
52	PN	502	GDP	2	0
50	NE	501	GTP	2	0
50	UK	501	GTP	2	0
52	HB	502	GDP	1	0
52	NH	502	GDP	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
52	NN	502	GDP	1	0
50	DO	501	GTP	1	0
50	AC	501	GTP	1	0
50	FK	501	GTP	1	0
50	RK	501	GTP	2	0
52	CF	502	GDP	1	0
50	WO	501	GTP	2	0
52	BJ	502	GDP	1	0
50	CO	501	GTP	1	0
52	JL	502	GDP	1	0
50	EG	501	GTP	1	0
52	OF	502	GDP	1	0
50	WG	501	GTP	1	0
52	KL	502	GDP	1	0
50	OI	501	GTP	1	0
52	ID	502	GDP	1	0
50	NI	501	GTP	1	0
52	FL	502	GDP	1	0
52	SF	502	GDP	2	0
50	FC	501	GTP	1	0
50	RI	501	GTP	3	0
50	IO	501	GTP	1	0
50	EI	501	GTP	1	0
52	HP	502	GDP	1	0
50	LM	501	GTP	1	0
50	DM	501	GTP	1	0
52	QH	502	GDP	2	0
52	KH	502	GDP	2	0
52	AH	502	GDP	1	0
50	FM	501	GTP	1	0
52	FJ	502	GDP	6	0
52	PB	502	GDP	1	0
50	QG	501	GTP	2	0
50	EA	501	GTP	1	0
52	BD	502	GDP	1	0
52	IN	502	GDP	3	0
52	VN	502	GDP	2	0
50	FO	501	GTP	1	0
52	RL	502	GDP	1	0
50	IE	501	GTP	1	0
52	LF	502	GDP	1	0
50	DE	501	GTP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
52	JH	502	GDP	1	0
52	NJ	502	GDP	1	0
50	HO	501	GTP	1	0
50	HA	501	GTP	1	0
50	OC	501	GTP	1	0
50	QI	501	GTP	3	0
50	GI	501	GTP	1	0
50	QM	501	GTP	2	0
50	MM	501	GTP	1	0
50	EE	501	GTP	1	0
50	TG	501	GTP	1	0
52	LH	502	GDP	1	0
50	NC	501	GTP	1	0
52	EB	502	GDP	1	0
52	WD	502	GDP	1	0
50	LI	501	GTP	2	0
50	MC	501	GTP	1	0
50	CG	501	GTP	1	0
52	FB	502	GDP	1	0
50	NG	501	GTP	1	0
50	JO	501	GTP	2	0
50	SK	501	GTP	1	0
50	GM	501	GTP	2	0
52	RN	502	GDP	1	0
52	KF	502	GDP	1	0
50	WI	501	GTP	2	0
50	PI	501	GTP	1	0
50	QO	501	GTP	6	0
50	DK	501	GTP	2	0
50	UE	501	GTP	1	0
52	GB	502	GDP	1	0
52	VD	502	GDP	1	0
52	IP	502	GDP	2	0
52	FD	502	GDP	1	0
50	UG	501	GTP	1	0
52	RH	502	GDP	2	0
50	UM	501	GTP	1	0
52	RJ	502	GDP	1	0
50	MO	501	GTP	1	0
52	SJ	502	GDP	1	0
50	AE	501	GTP	1	0
50	UC	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
50	VG	501	GTP	1	0
50	GG	501	GTP	1	0
52	TN	502	GDP	1	0
52	AN	502	GDP	1	0
50	FI	501	GTP	1	0
52	UH	502	GDP	1	0
50	HI	501	GTP	1	0
52	HL	502	GDP	1	0
52	CL	502	GDP	1	0
52	AL	502	GDP	1	0
50	TC	501	GTP	2	0
50	UO	501	GTP	1	0
52	ON	502	GDP	2	0
52	EL	502	GDP	1	0
52	JJ	502	GDP	2	0
52	VB	502	GDP	3	0
50	HG	501	GTP	1	0
50	LE	501	GTP	1	0
52	JD	502	GDP	1	0
52	JN	502	GDP	1	0
50	NO	501	GTP	1	0
52	IJ	502	GDP	2	0
50	WM	501	GTP	1	0
50	RE	501	GTP	2	0
50	KM	501	GTP	1	0
50	OO	501	GTP	1	0
50	QK	501	GTP	2	0
52	UB	502	GDP	2	0
50	KC	501	GTP	4	0
50	EK	501	GTP	1	0
52	PJ	502	GDP	1	0
52	KB	502	GDP	2	0
50	TM	501	GTP	1	0
50	SE	501	GTP	2	0
50	PG	501	GTP	3	0
52	GD	502	GDP	2	0
50	TI	501	GTP	1	0
52	OH	502	GDP	2	0
52	PD	502	GDP	1	0
50	KA	501	GTP	1	0
50	LK	501	GTP	1	0
50	SM	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
50	KG	501	GTP	3	0
52	WJ	502	GDP	1	0
50	II	501	GTP	3	0
50	OM	501	GTP	1	0
50	LO	501	GTP	1	0
50	WC	501	GTP	1	0
52	HF	502	GDP	1	0
52	NF	502	GDP	2	0
52	PF	502	GDP	1	0
50	RG	501	GTP	1	0
50	TK	501	GTP	2	0
50	CM	501	GTP	1	0
50	CK	501	GTP	2	0
50	QC	501	GTP	2	0
52	DL	502	GDP	2	0
52	SH	502	GDP	1	0
52	UL	502	GDP	1	0
50	WA	501	GTP	1	0
50	JK	501	GTP	1	0
50	HC	501	GTP	1	0
50	TE	501	GTP	1	0
52	PL	502	GDP	1	0
50	JI	501	GTP	3	0
50	IG	501	GTP	1	0
50	DQ	501	GTP	2	0
52	GJ	502	GDP	1	0
52	SB	502	GDP	2	0
50	CI	501	GTP	3	0
50	HE	501	GTP	2	0
52	KJ	502	GDP	1	0
50	MK	501	GTP	1	0
50	NM	501	GTP	3	0
52	QL	502	GDP	1	0
52	HD	502	GDP	1	0
52	FN	502	GDP	2	0
52	OB	502	GDP	4	0
52	CH	502	GDP	3	0
52	EJ	502	GDP	1	0
50	BC	501	GTP	1	0
50	VO	501	GTP	1	0
52	SL	502	GDP	1	0
50	QE	501	GTP	1	0

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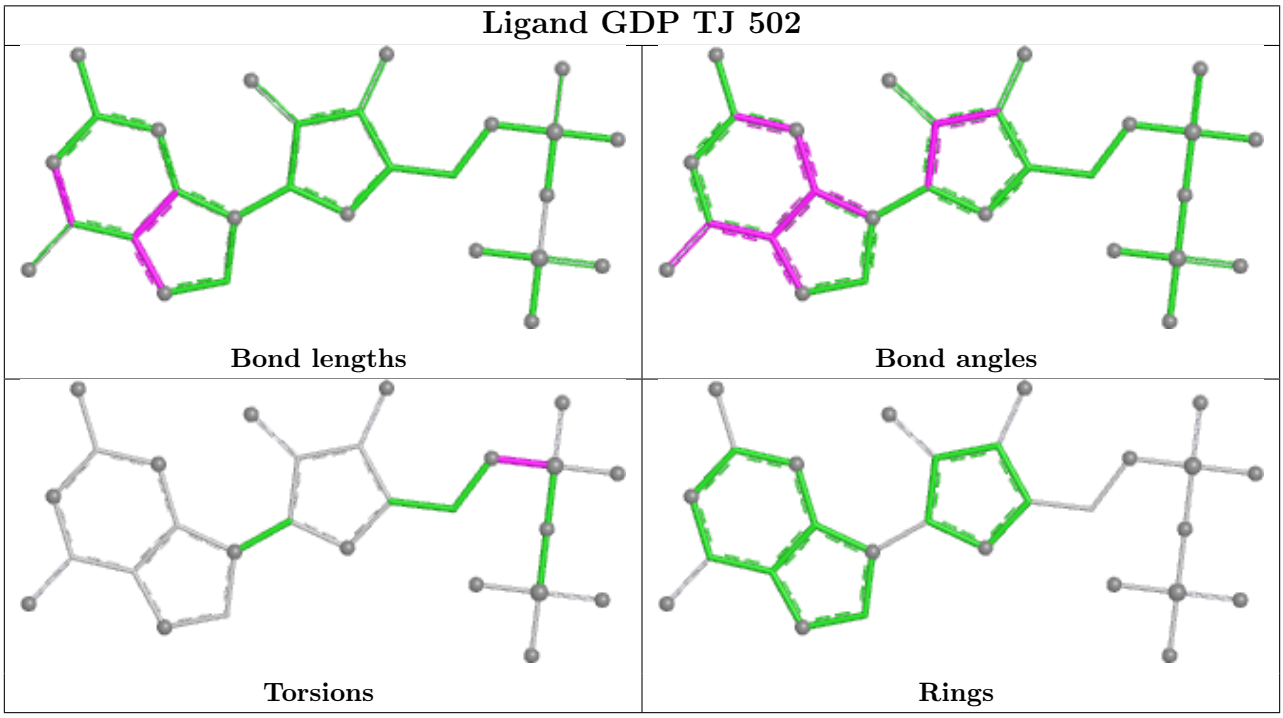
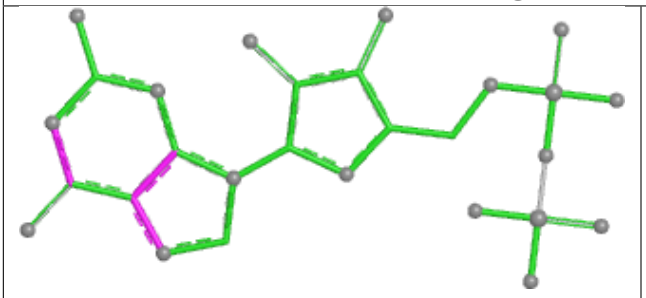
Mol	Chain	Res	Type	Clashes	Symm-Clashes
50	VK	501	GTP	1	0
52	IF	502	GDP	1	0
52	HN	502	GDP	1	0

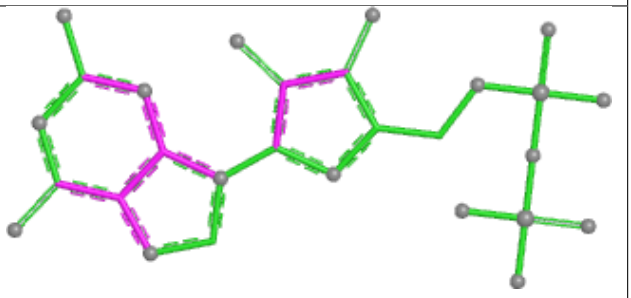
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.



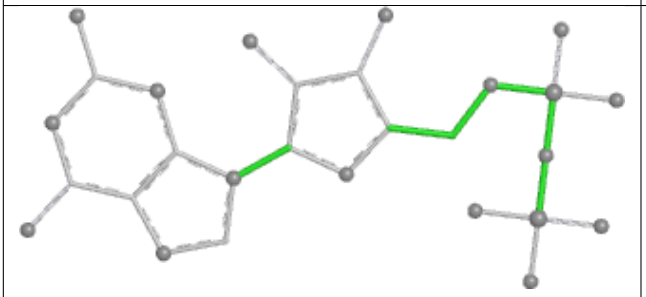
Ligand GDP UF 502



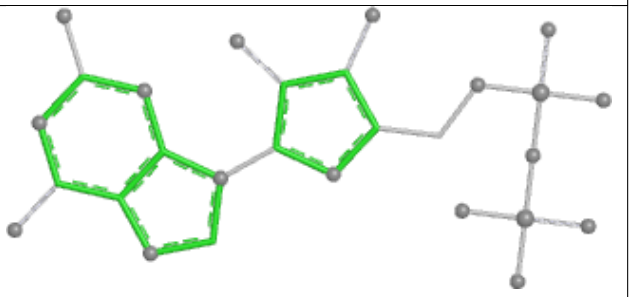
Bond lengths



Bond angles

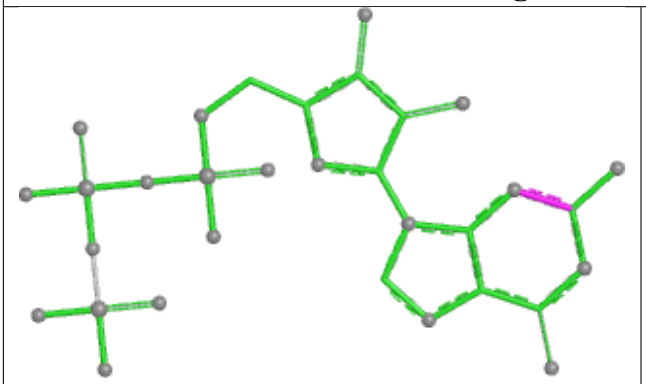


Torsions

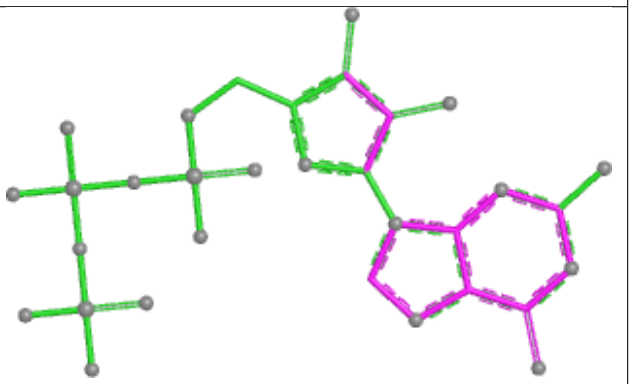


Rings

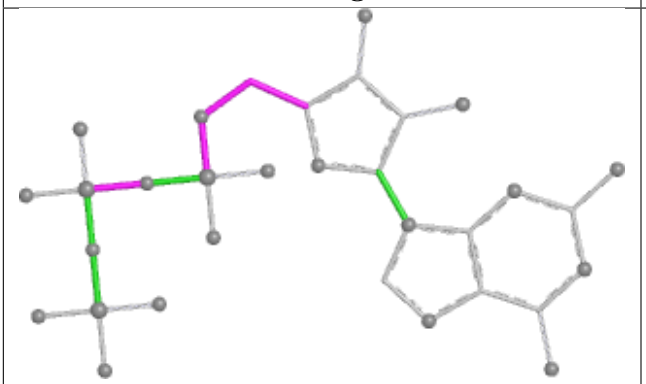
Ligand GTP SA 501



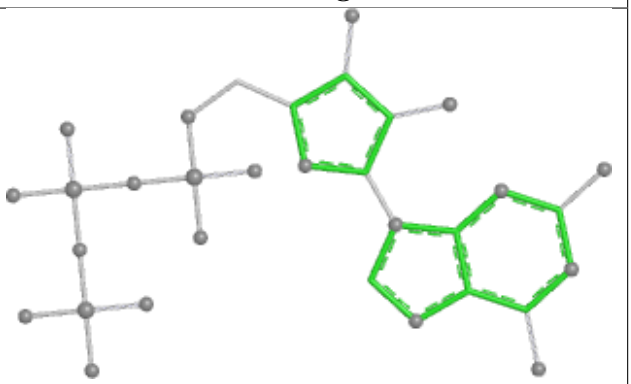
Bond lengths



Bond angles

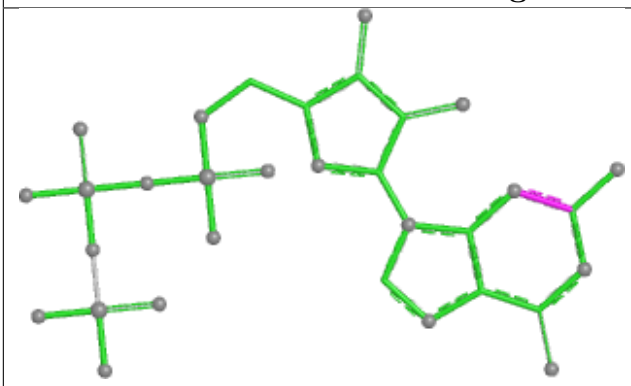


Torsions

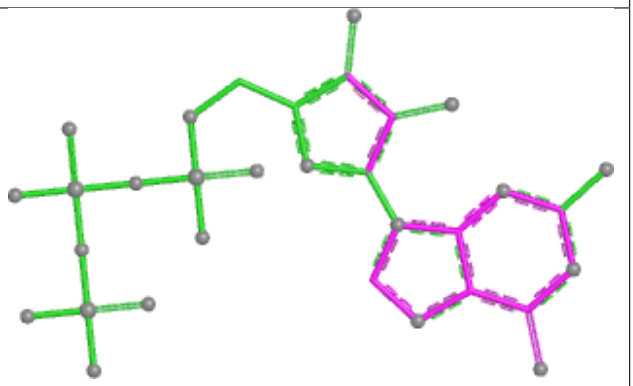


Rings

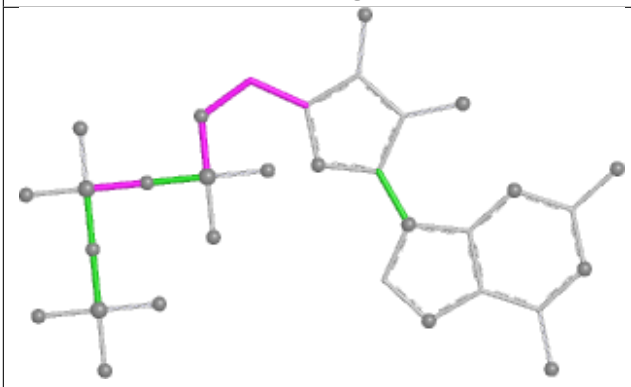
Ligand GTP PK 501



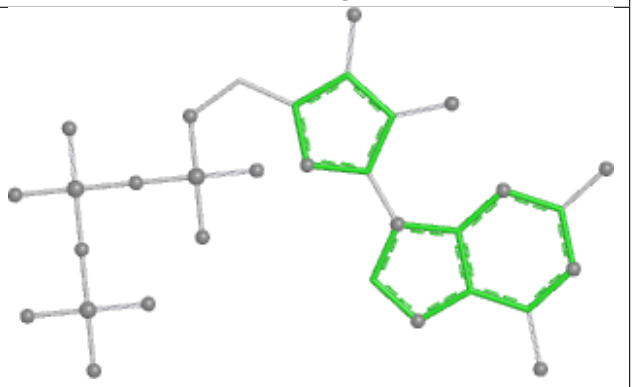
Bond lengths



Bond angles

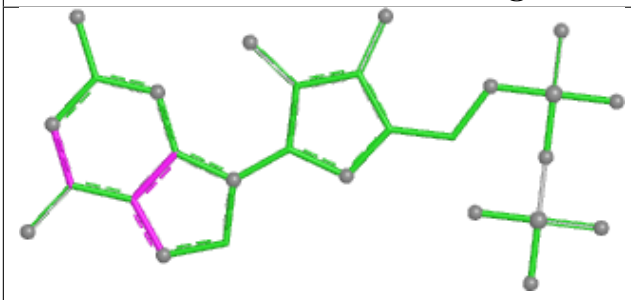


Torsions

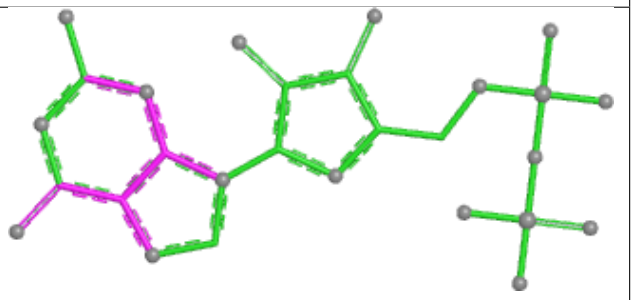


Rings

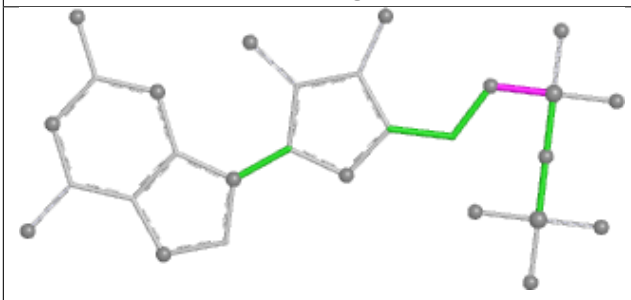
Ligand GDP KP 502



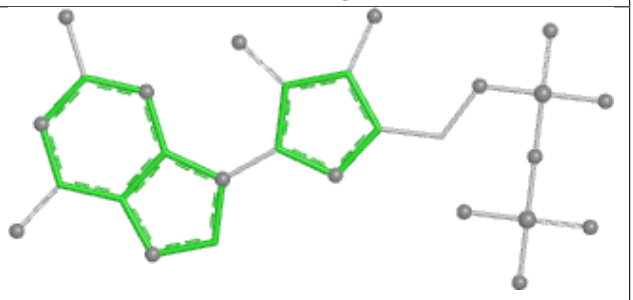
Bond lengths



Bond angles

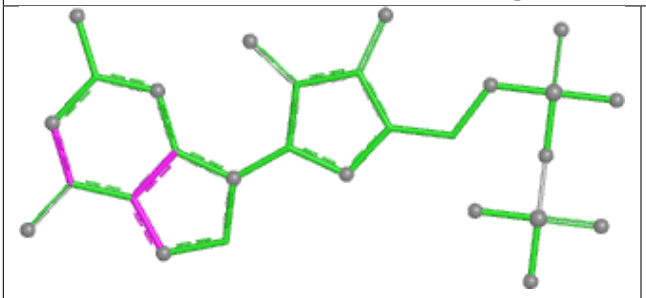


Torsions



Rings

Ligand GDP QP 502



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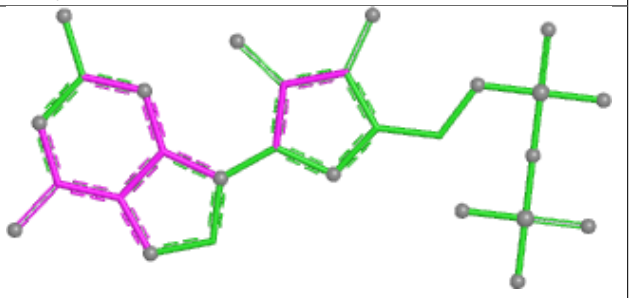

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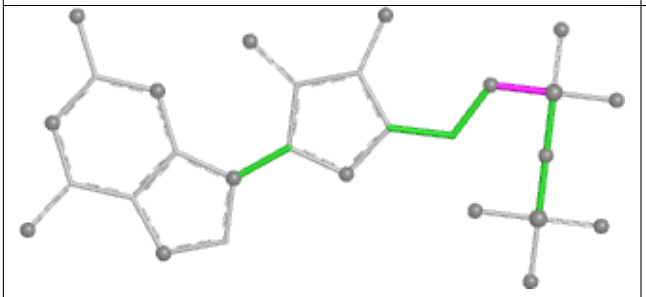

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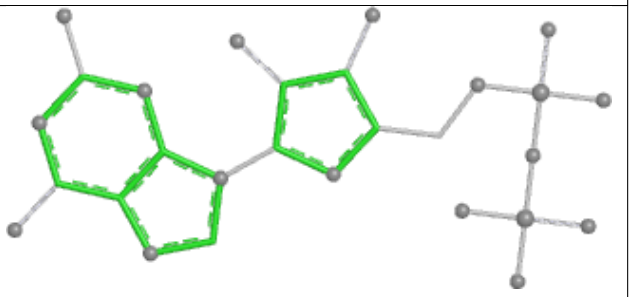
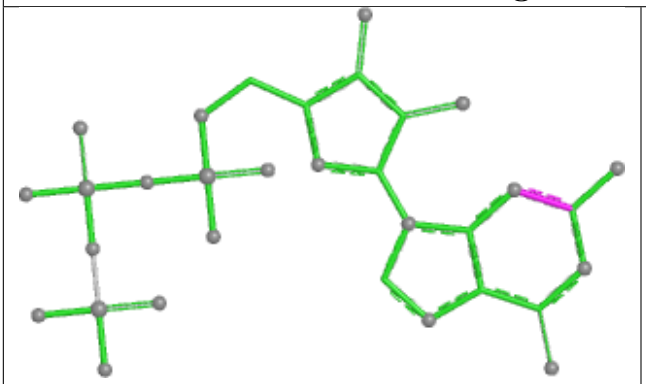


Rings

Ligand GTP FE 501



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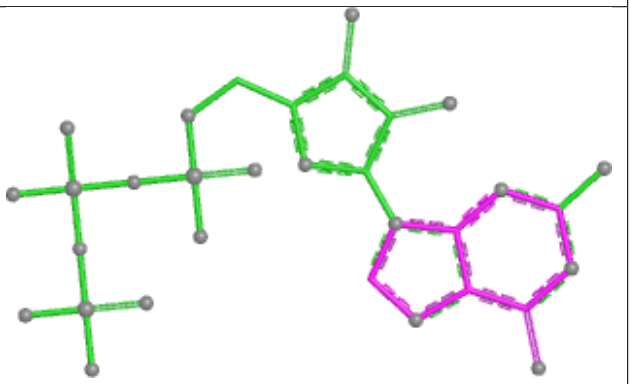

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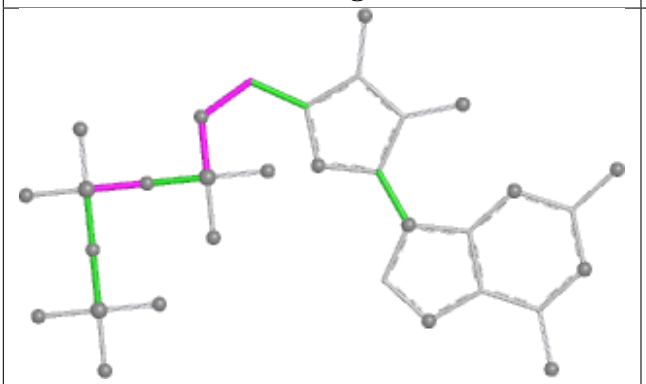

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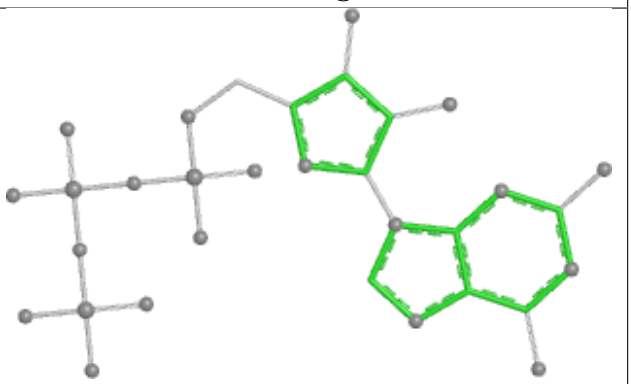
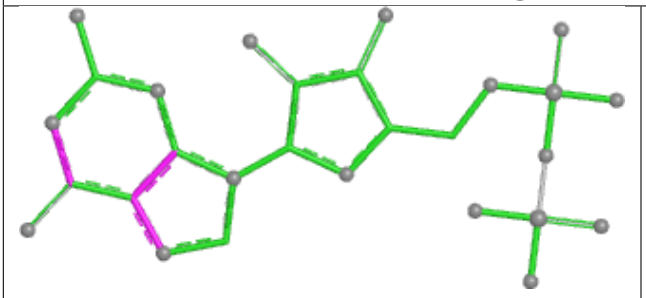


Rings

Ligand GDP UJ 502



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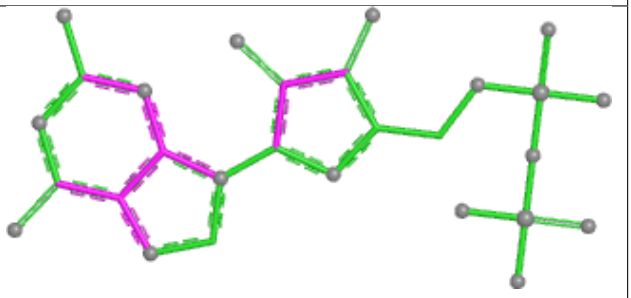

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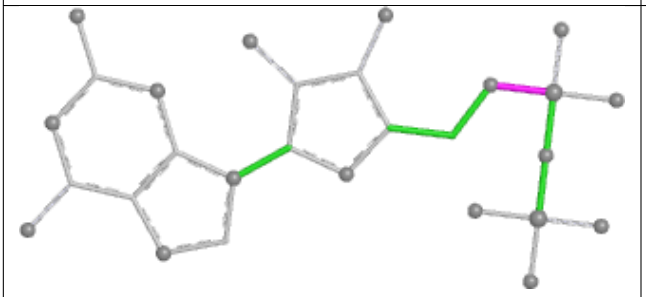

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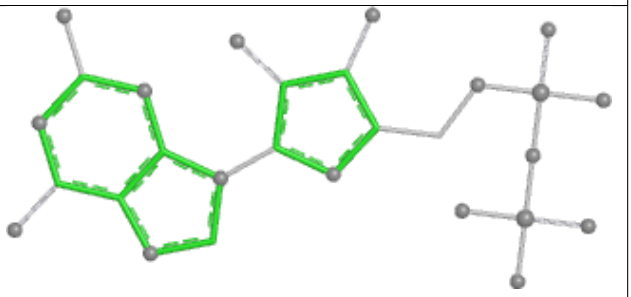
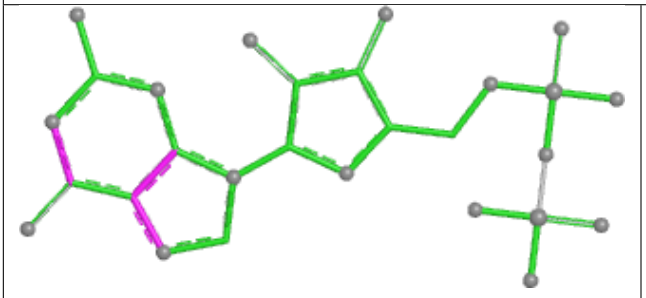


Rings

Ligand GDP ED 502



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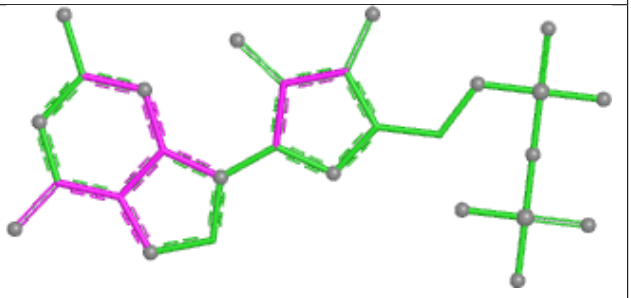

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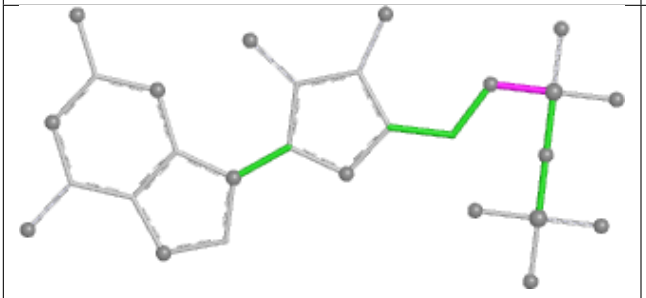

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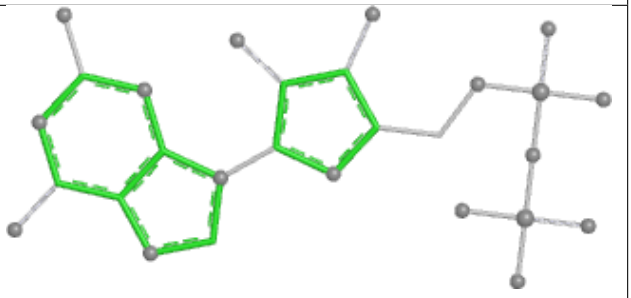
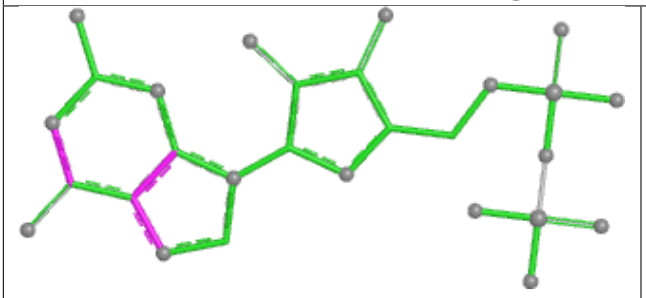


Rings

Ligand GDP QD 502



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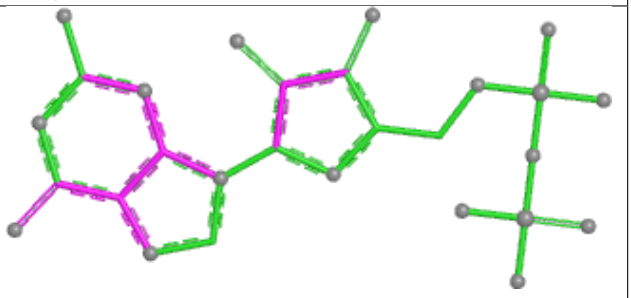

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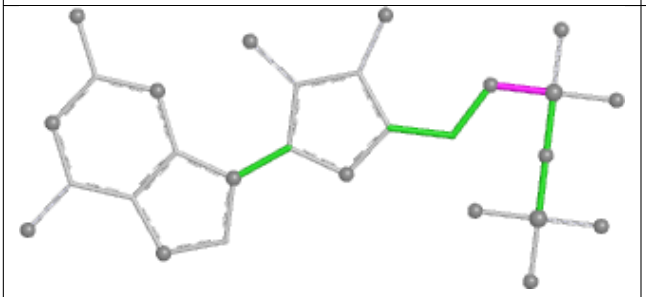

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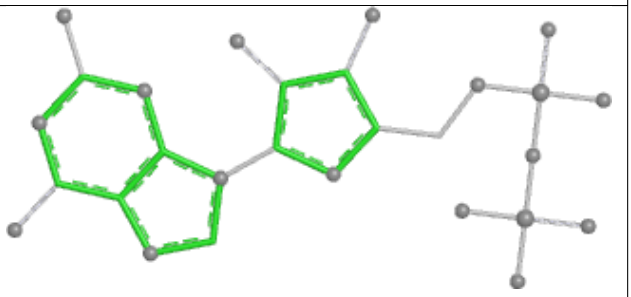
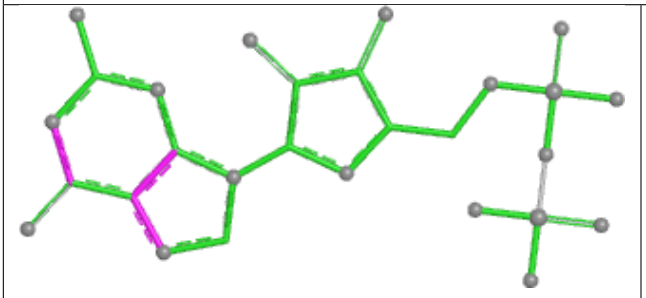


Rings

Ligand GDP DN 502



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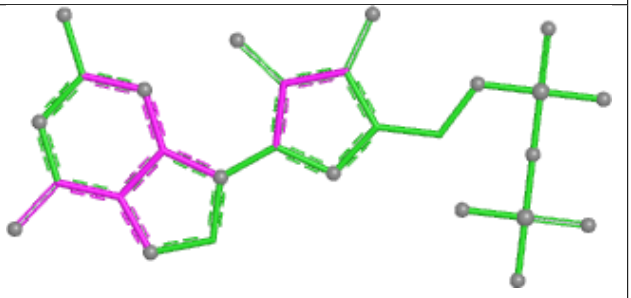

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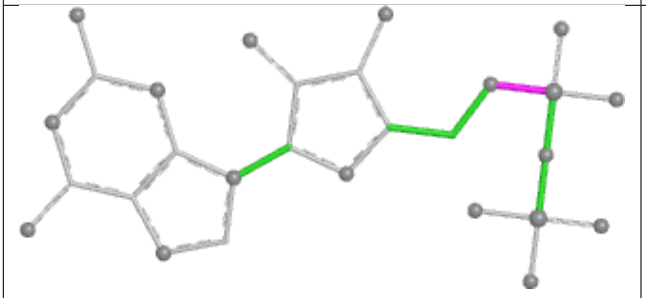

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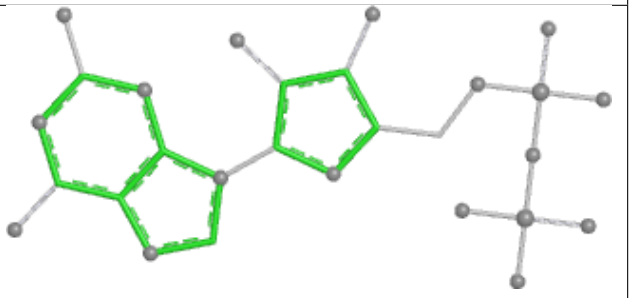
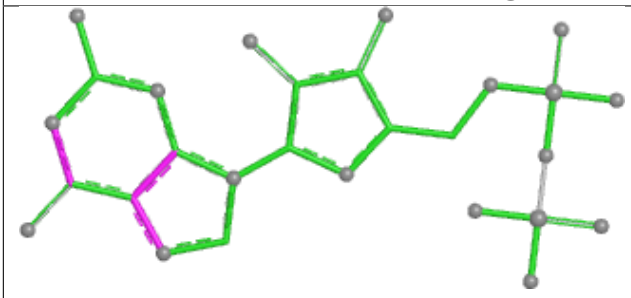


Rings

Ligand GDP WH 502



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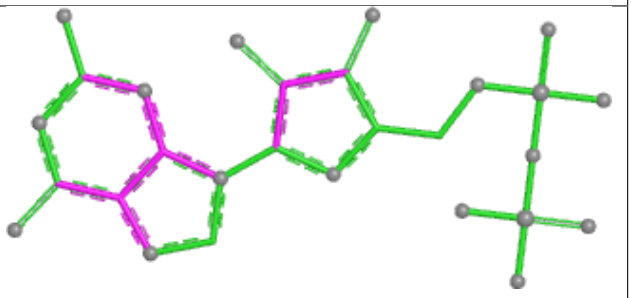

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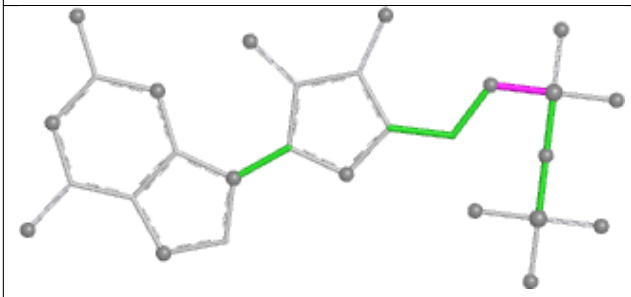

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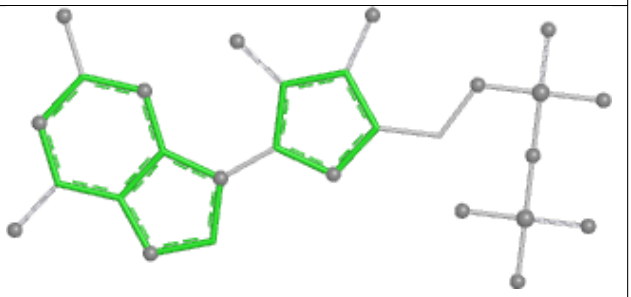
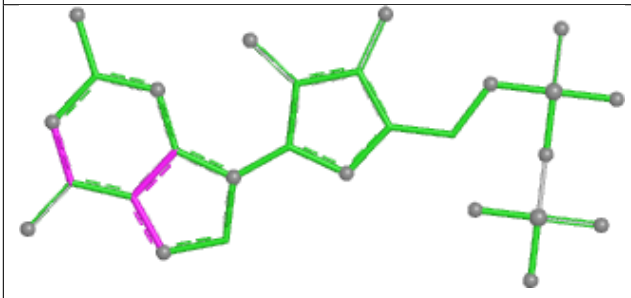


Rings

Ligand GDP UD 502



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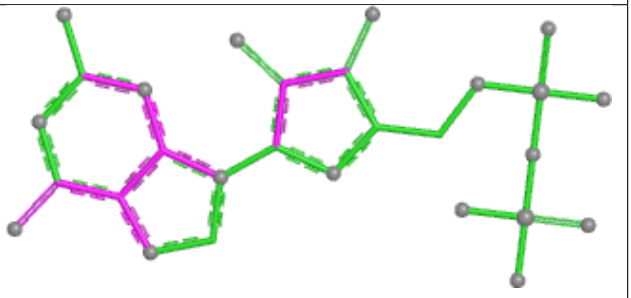

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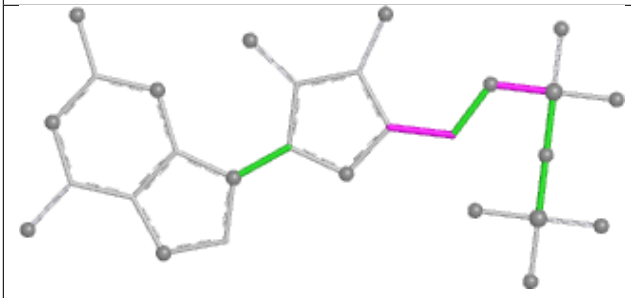

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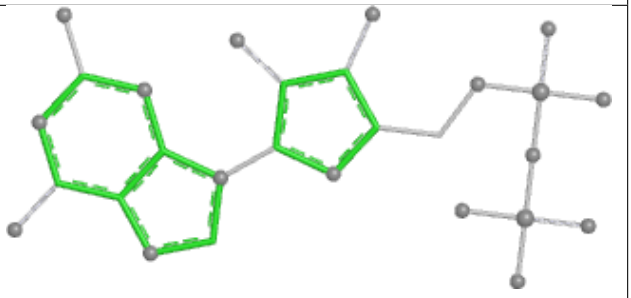
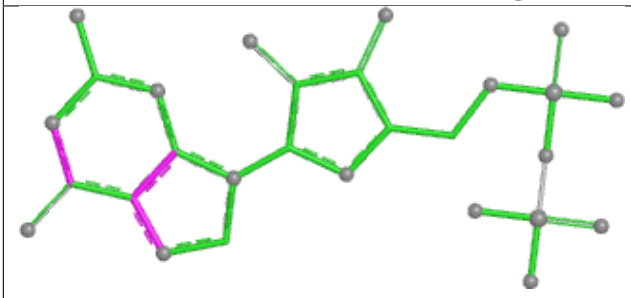


Rings

Ligand GDP GL 502



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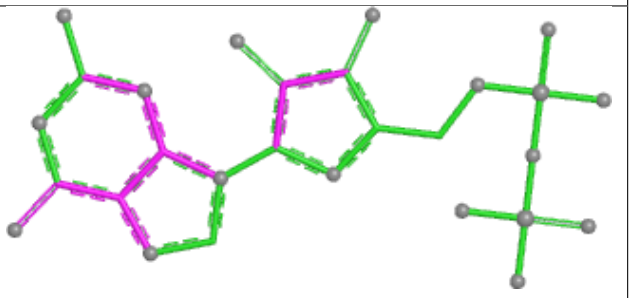

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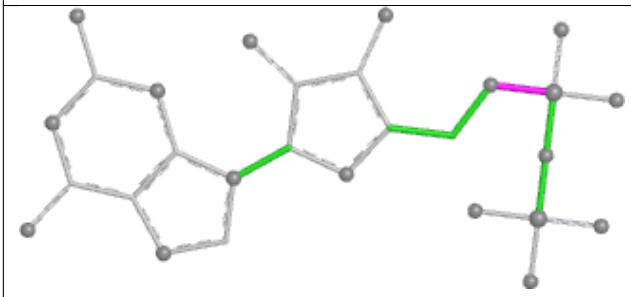

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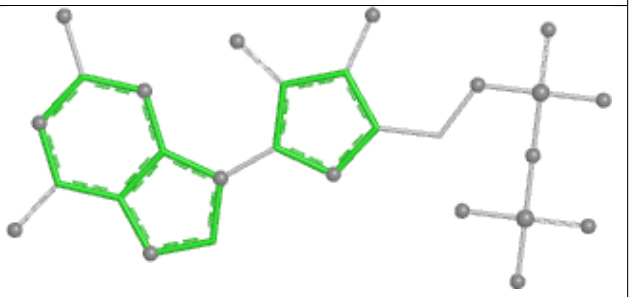
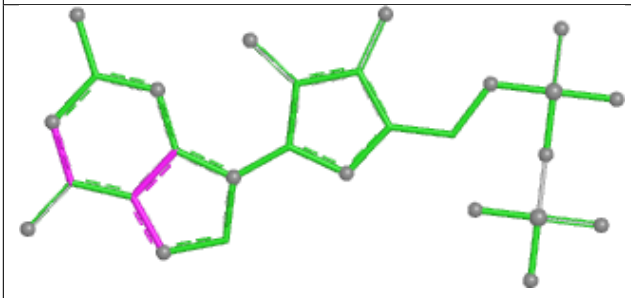


Rings

Ligand GDP PP 502



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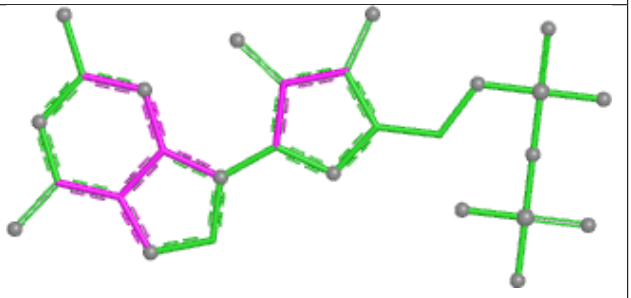

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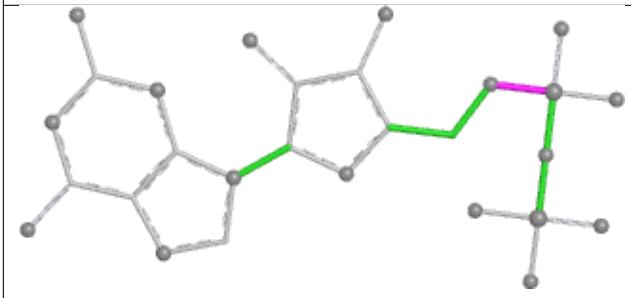

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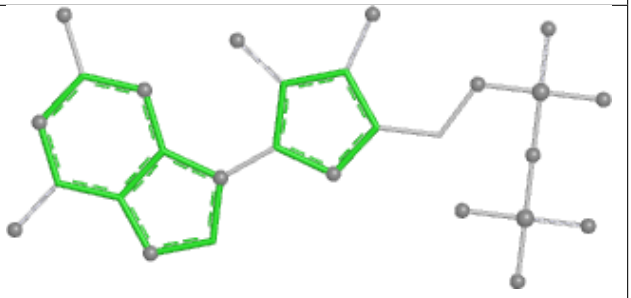
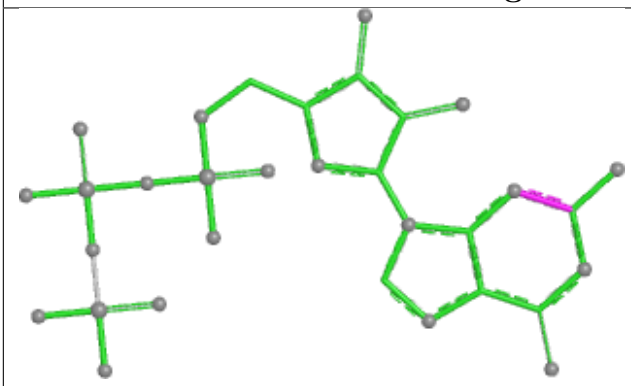


Rings

Ligand GTP MG 501



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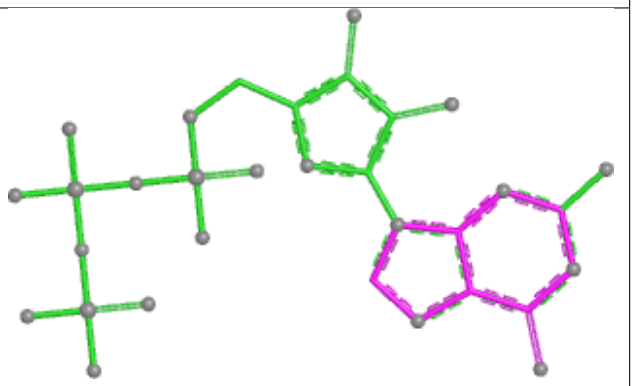

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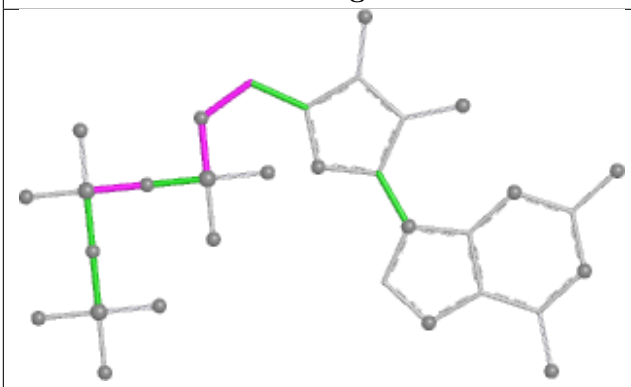

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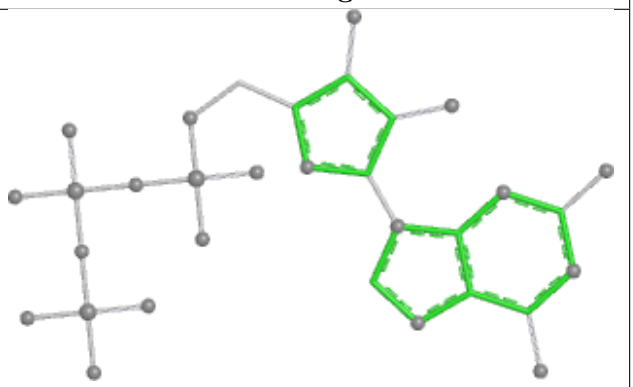
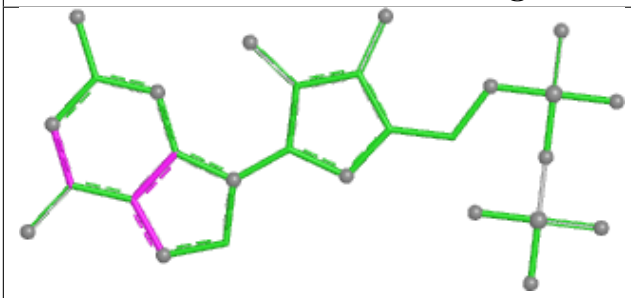


Rings

Ligand GDP AP 502



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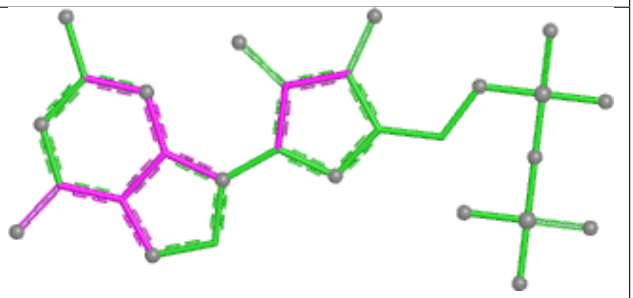

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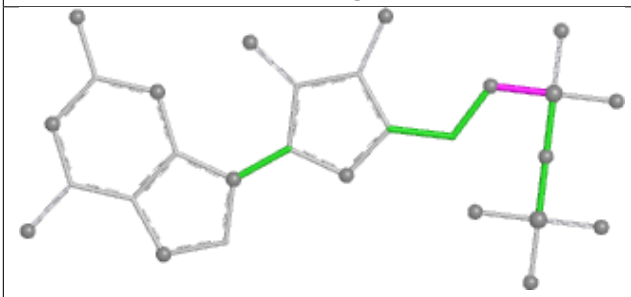

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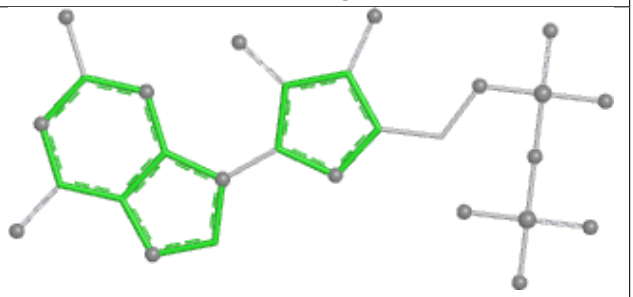
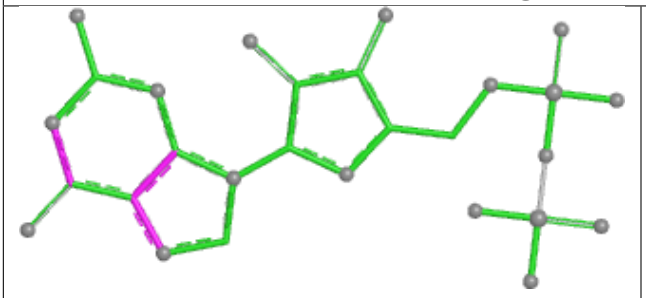


Rings

Ligand GDP IL 502



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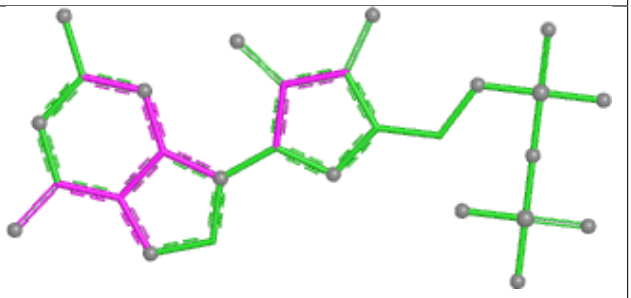
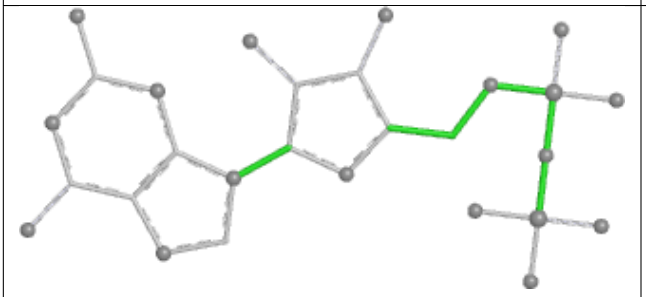


Bond angles



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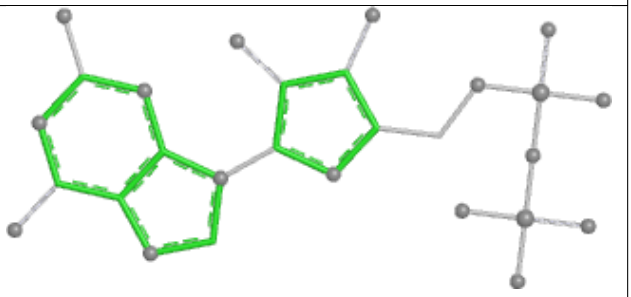
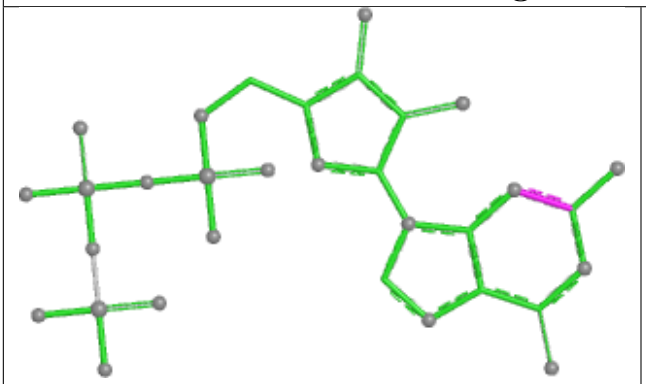
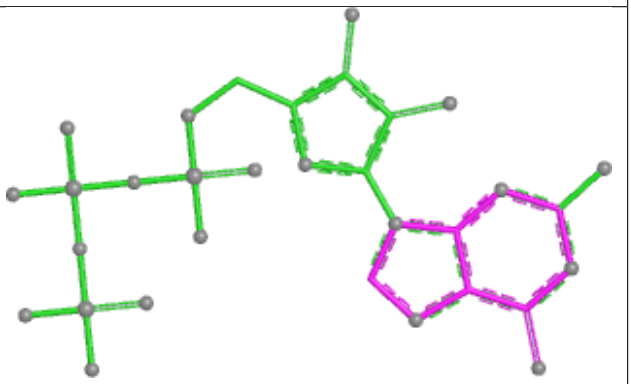


Rings

Ligand GTP LC 501



Bond lengths



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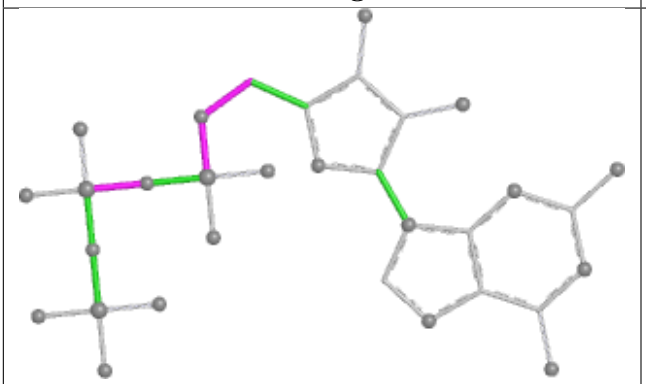
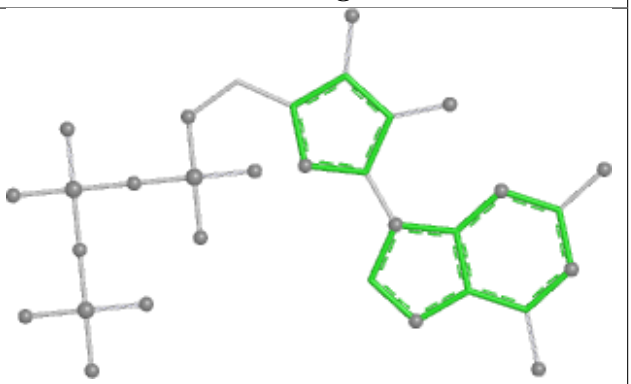
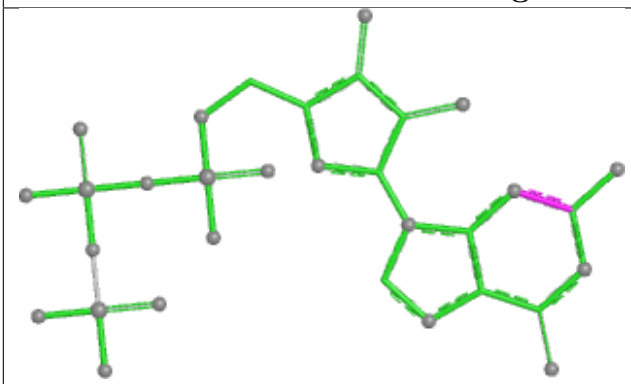


Torsions



Rings

Ligand GTP SG 501



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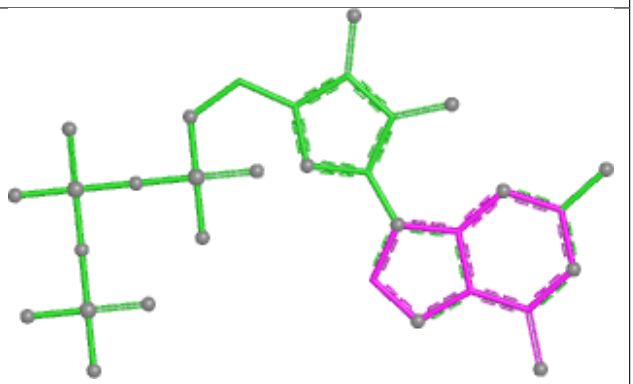

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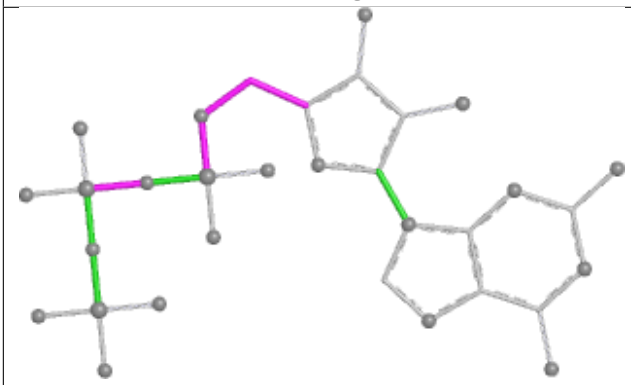

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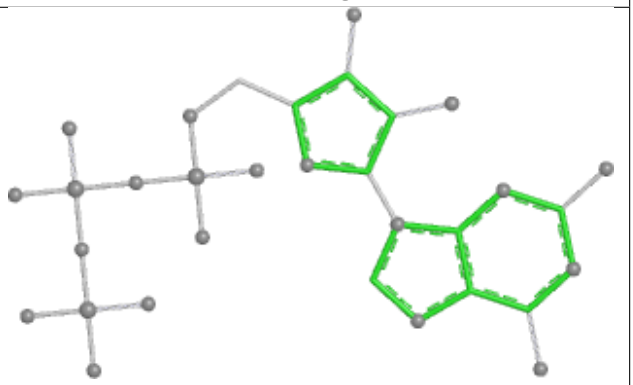
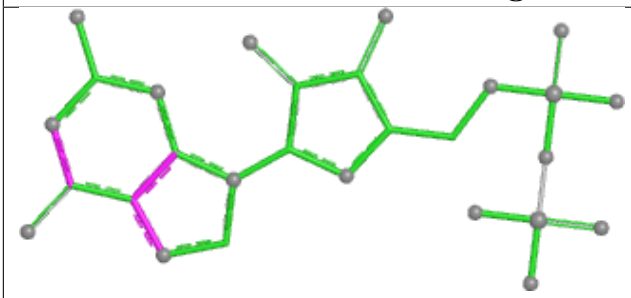


Rings

Ligand GDP RD 502



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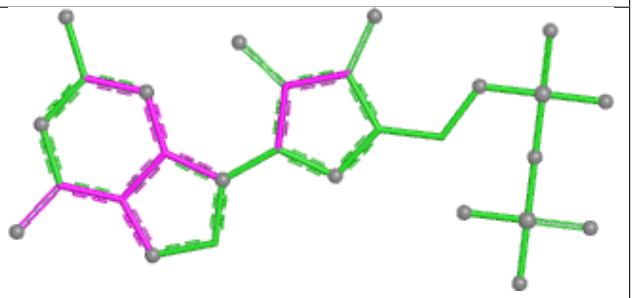

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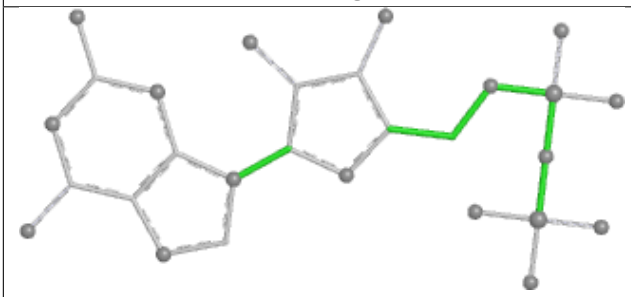

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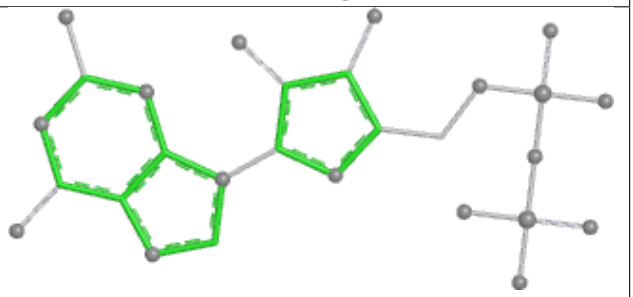
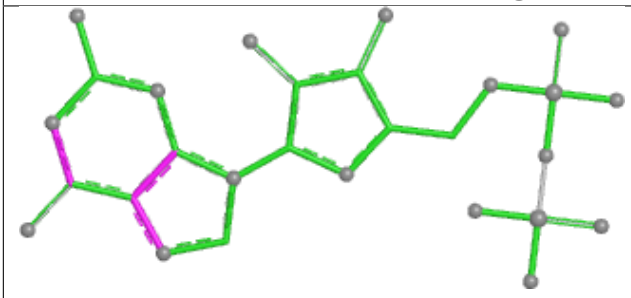


Rings

Ligand GDP BF 502



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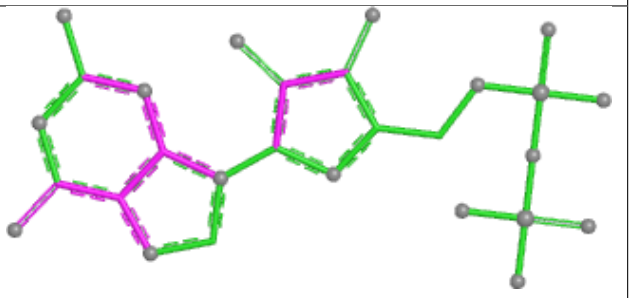

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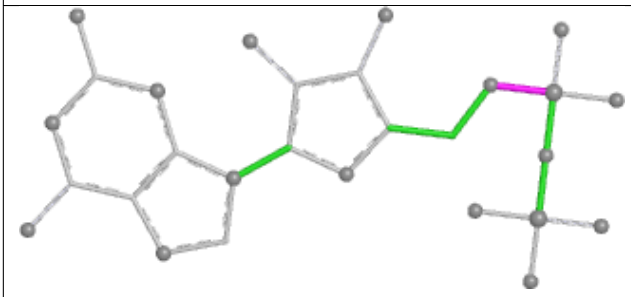

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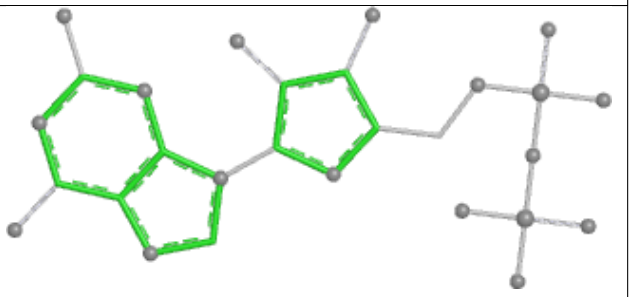
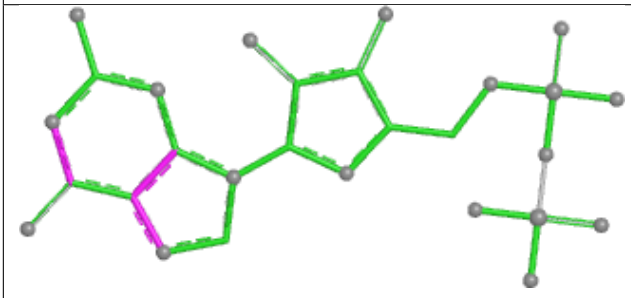


Rings

Ligand GDP HH 502



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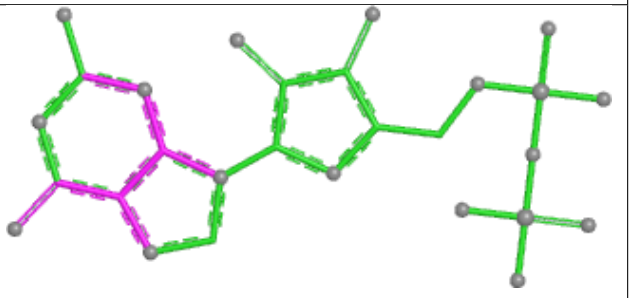

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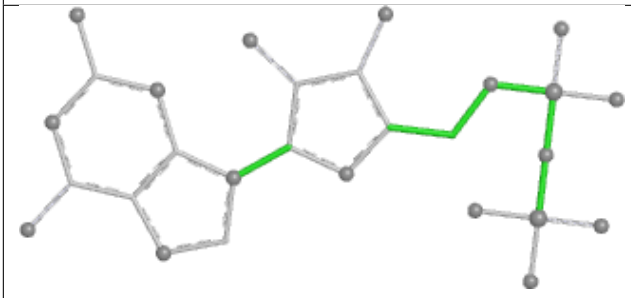

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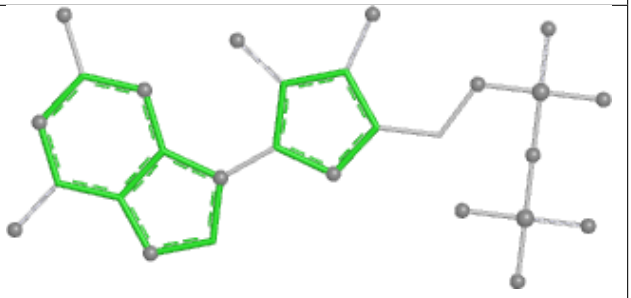
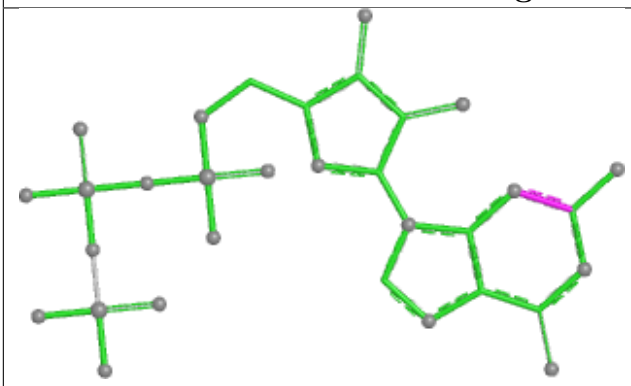


Rings

Ligand GTP KI 501



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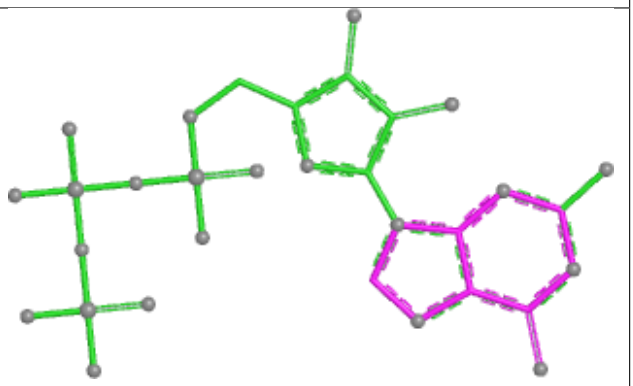

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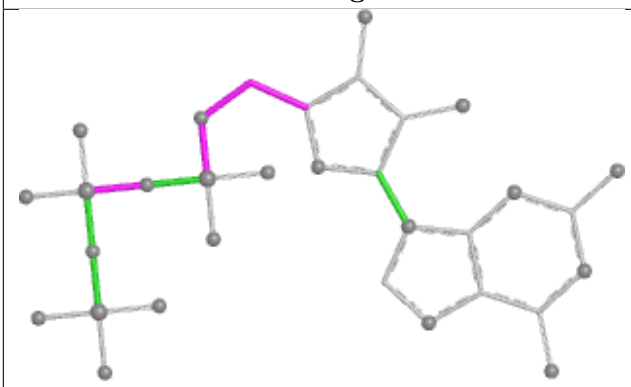

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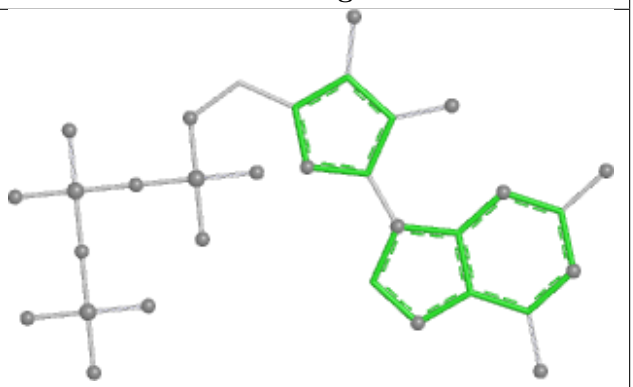

Rings

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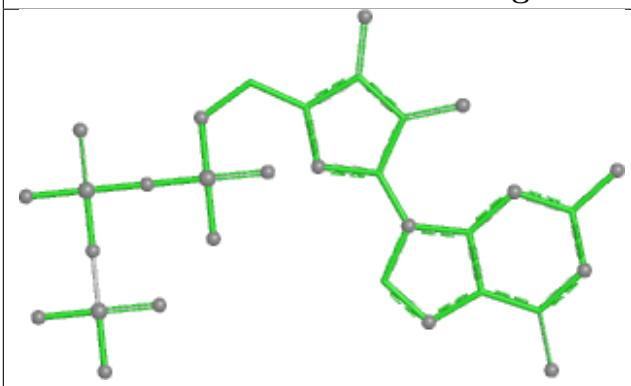

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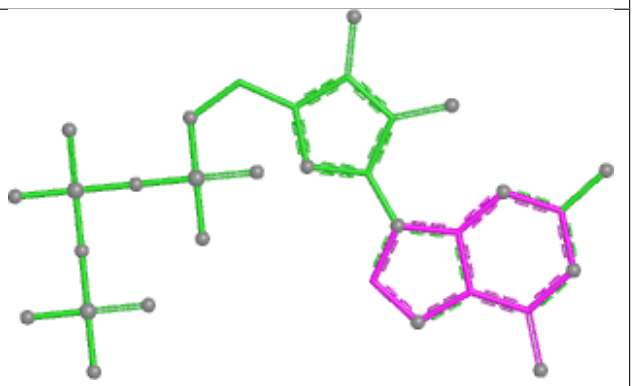

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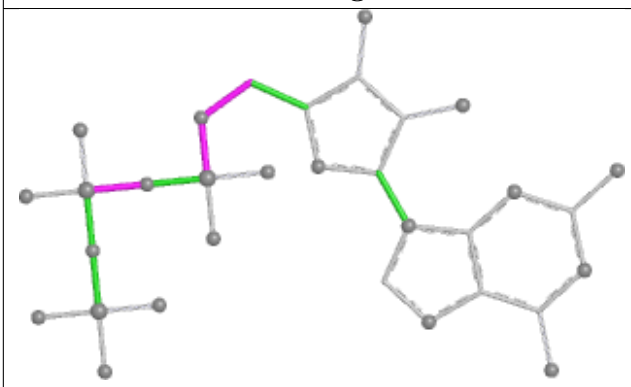

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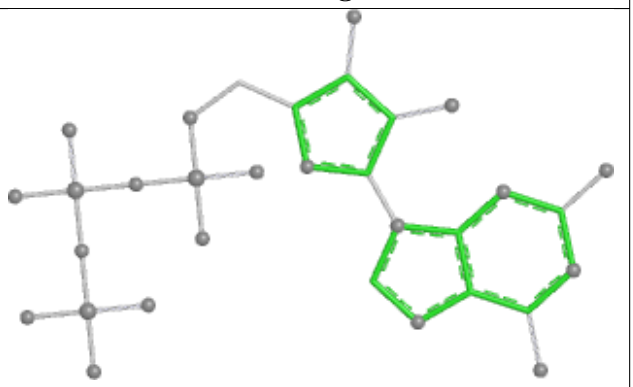
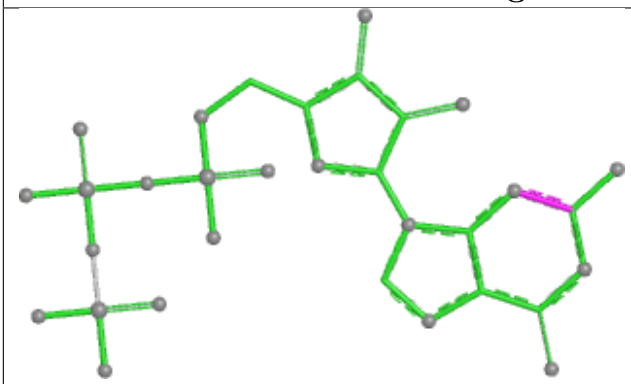


Rings

Ligand GTP NK 501



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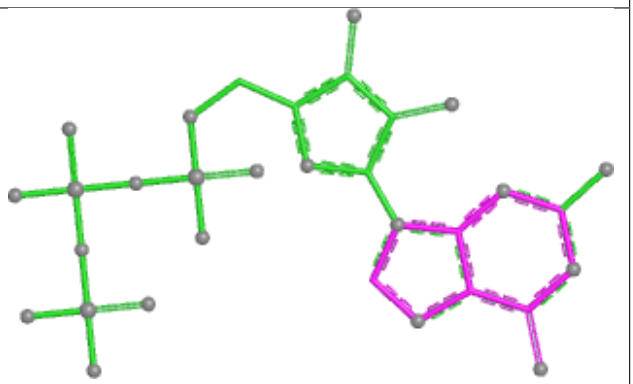

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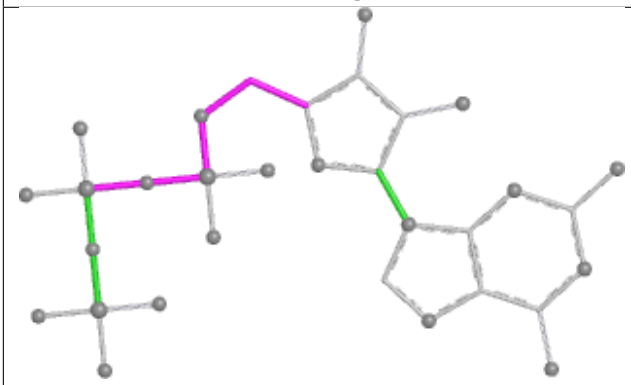

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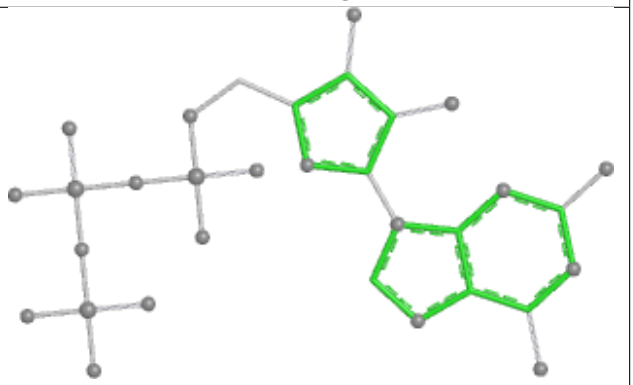
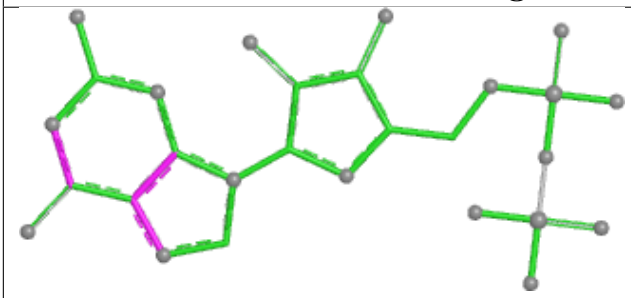


Rings

Ligand GDP DB 502



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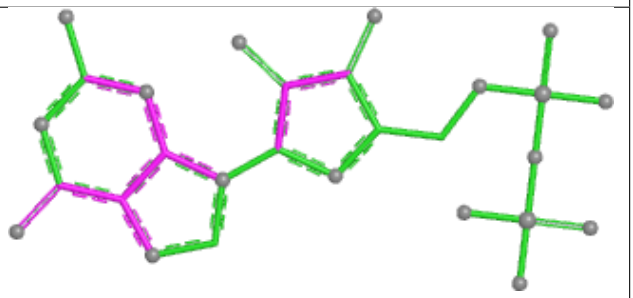

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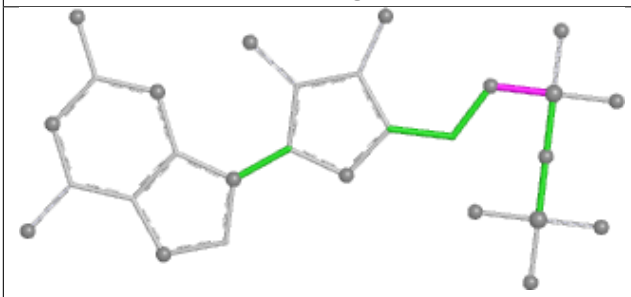

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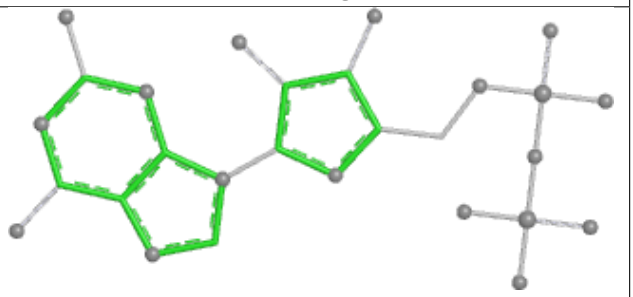
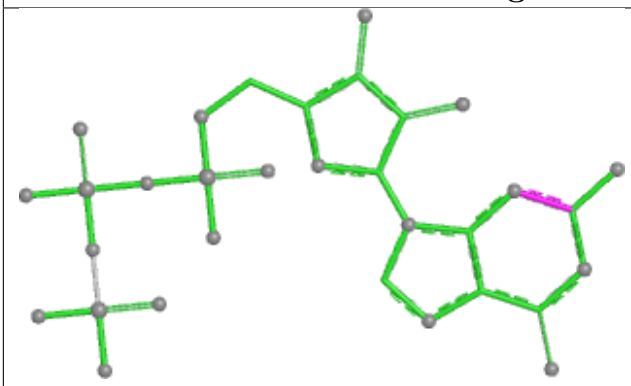


Rings

Ligand GTP KK 501



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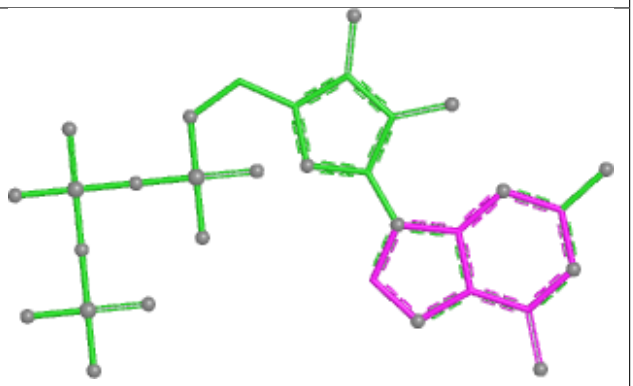

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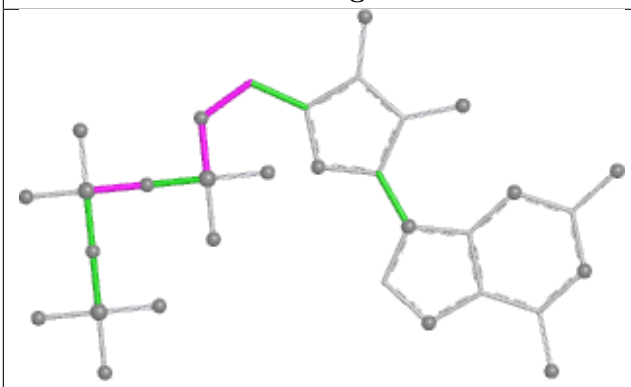

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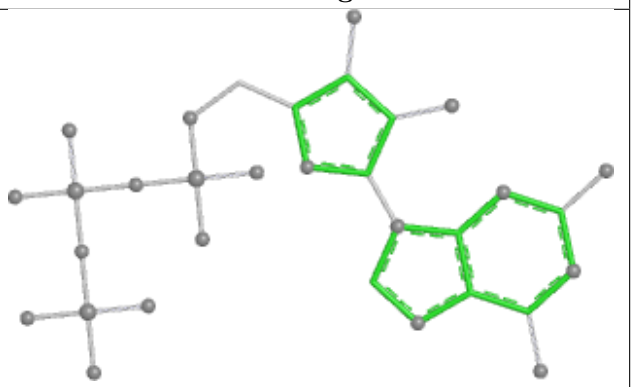
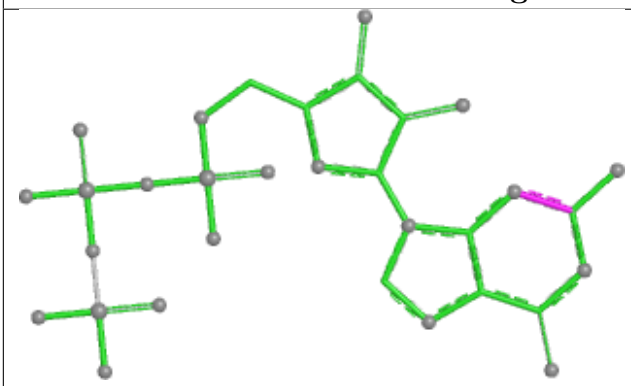


Rings

Ligand GTP EO 501



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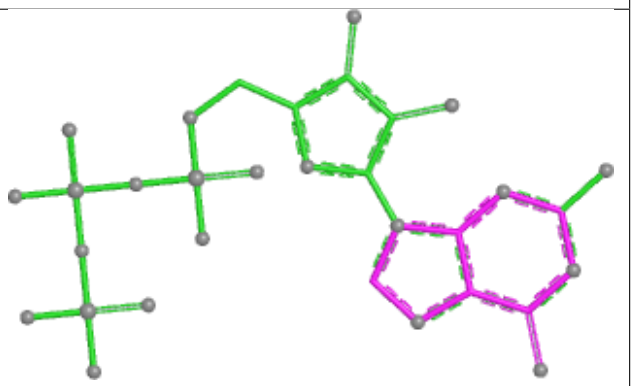

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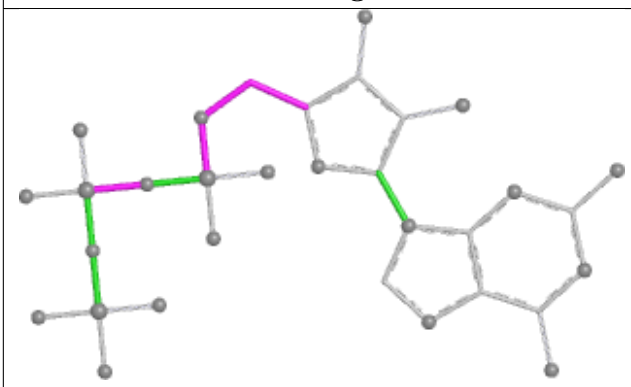

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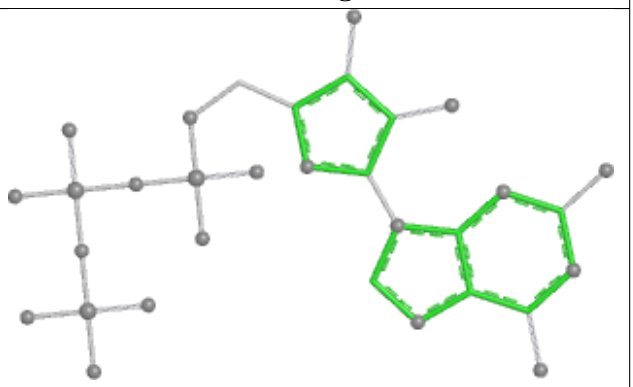
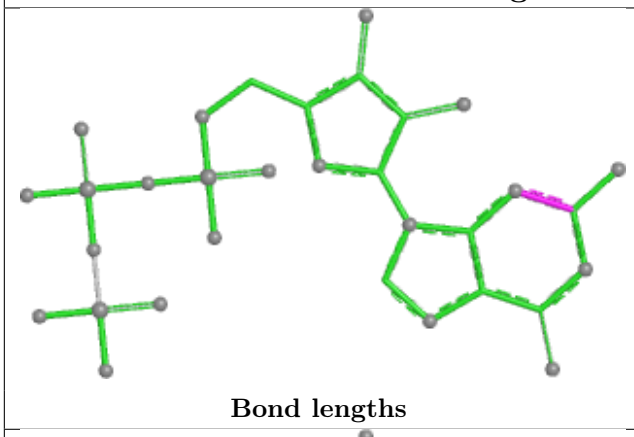


Rings

Ligand GTP BK 501



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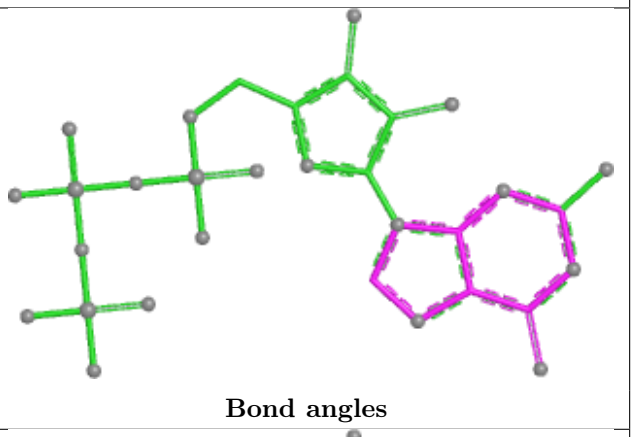

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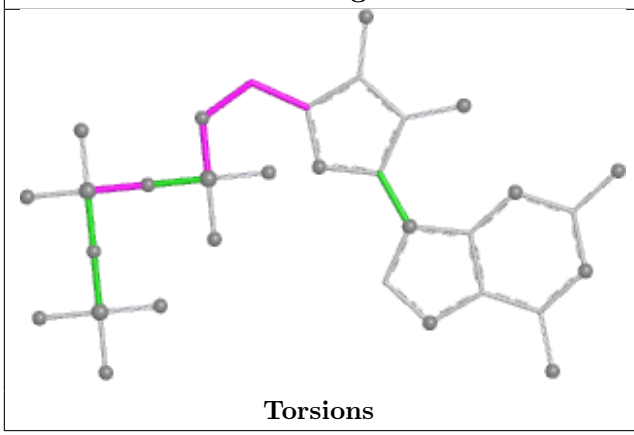

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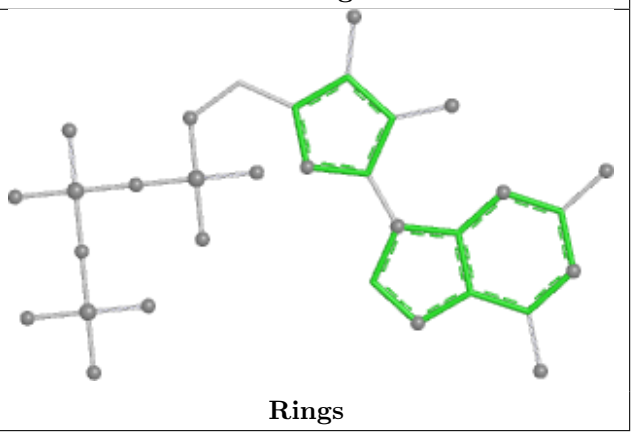
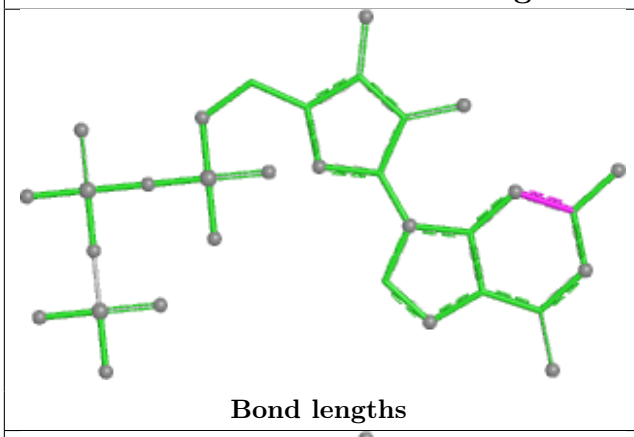


Rings

Ligand GTP JQ 501



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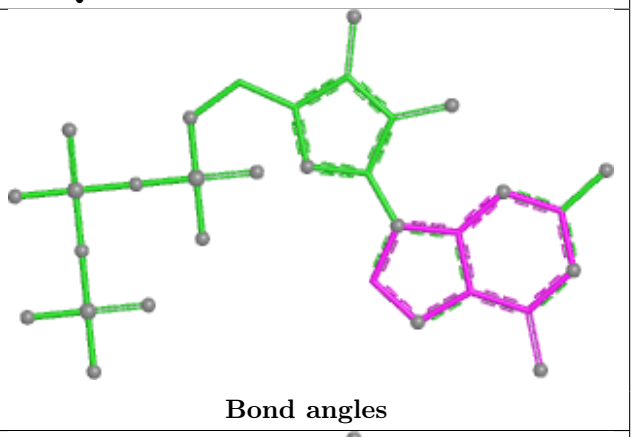

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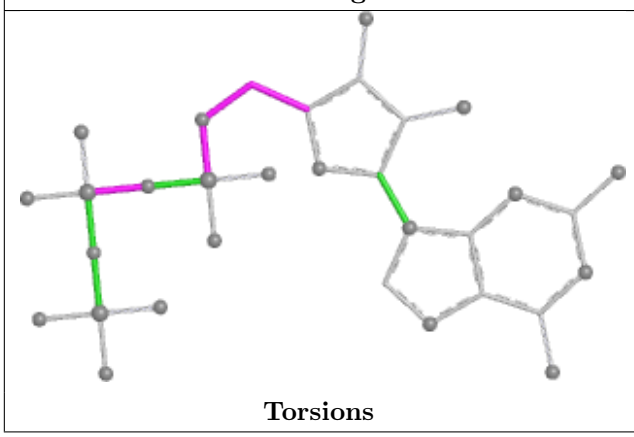

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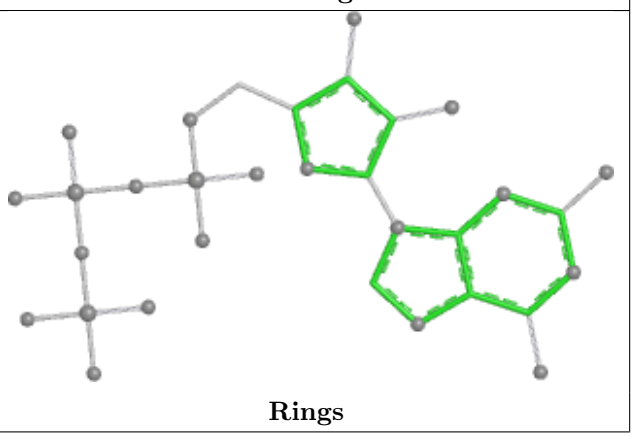
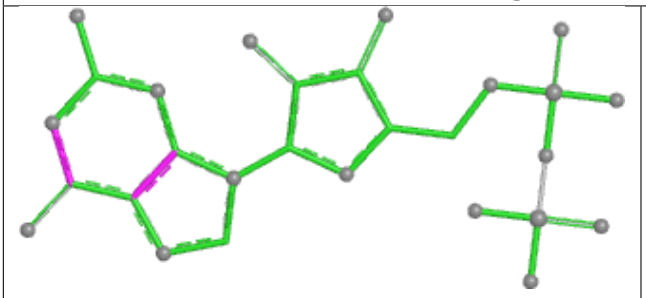


Rings

Ligand GDP PN 502



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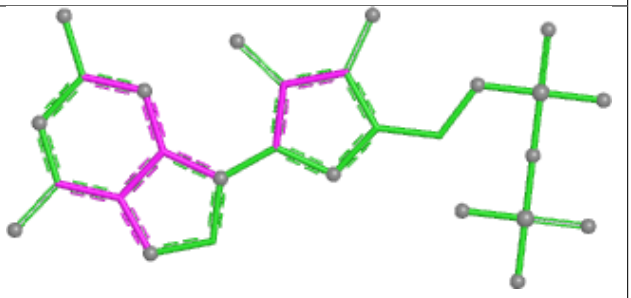
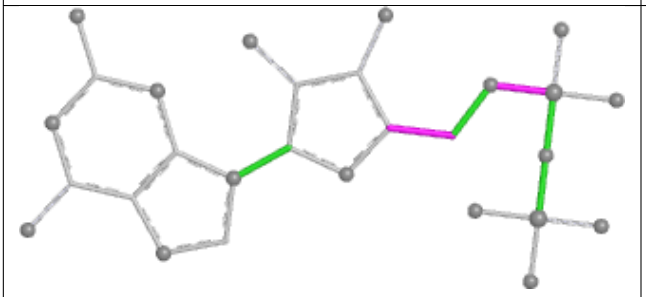


Bond angles



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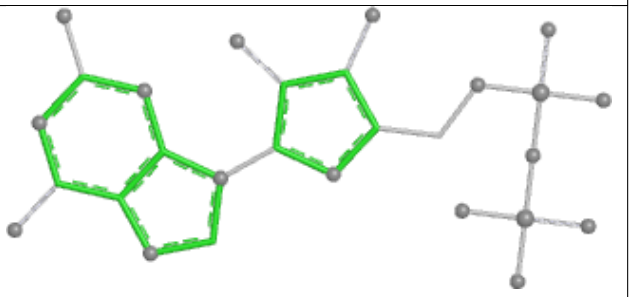
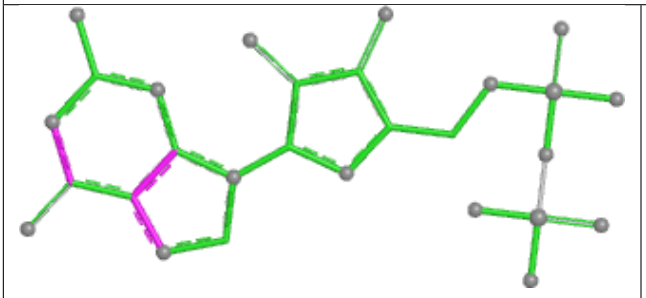


Rings

Ligand GDP AF 502



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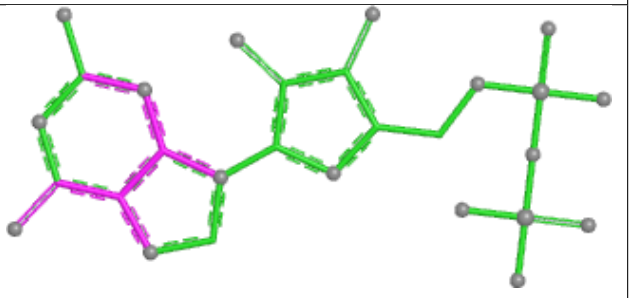

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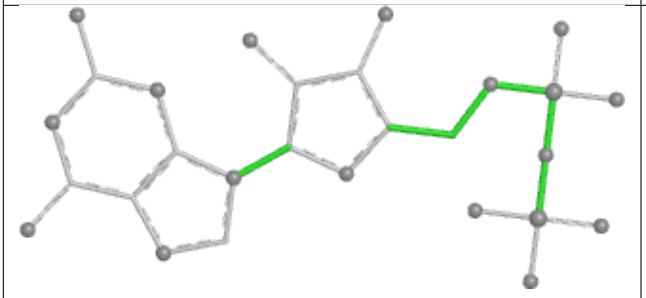
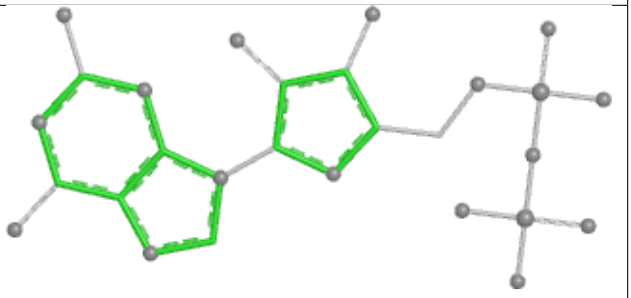
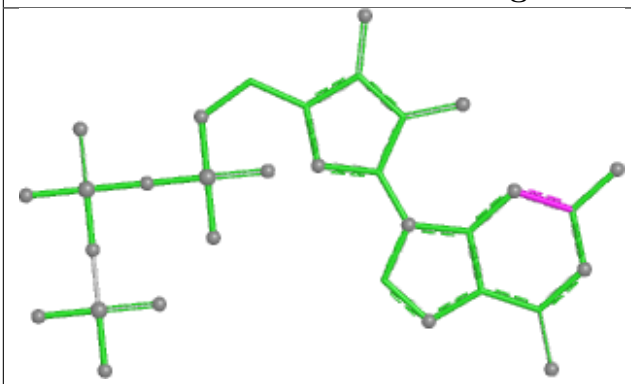


Torsions



Rings

Ligand GTP NE 501



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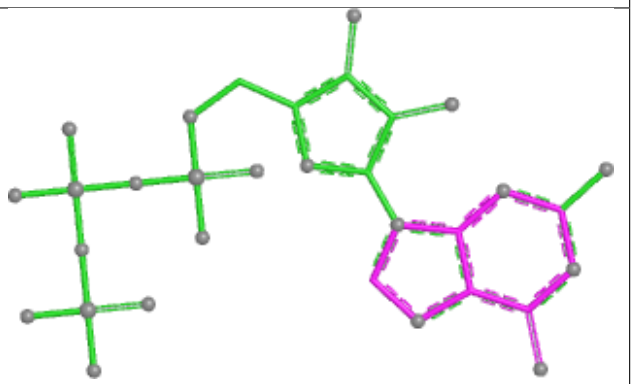

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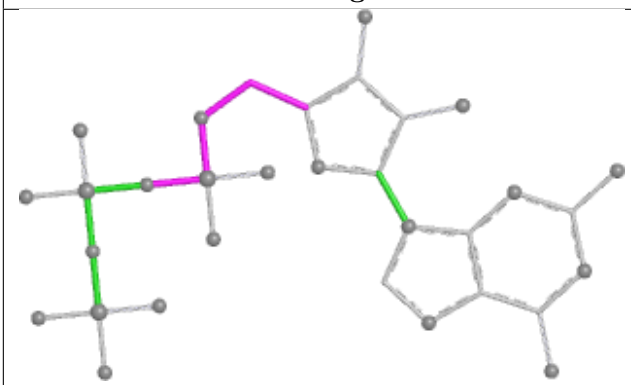

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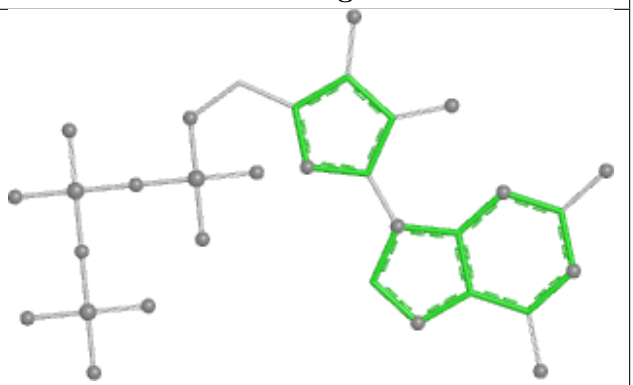
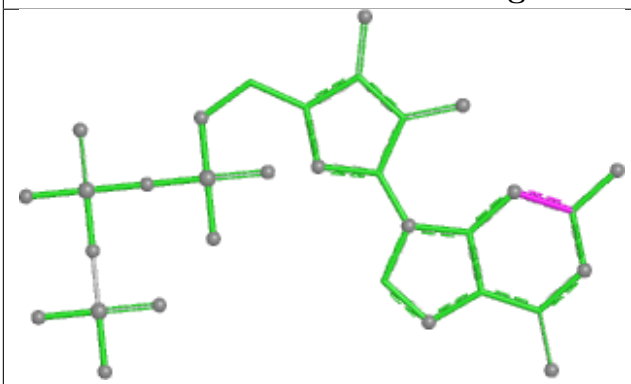


Rings

Ligand GTP UK 501



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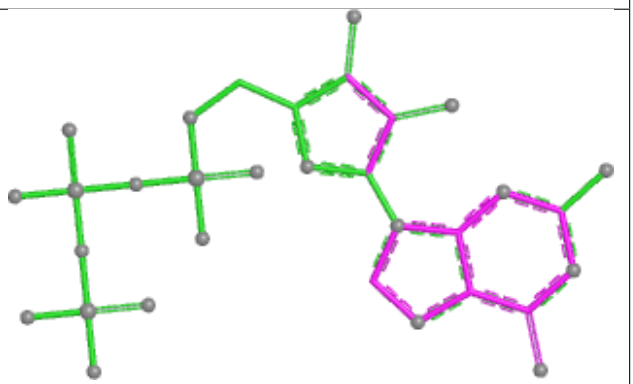

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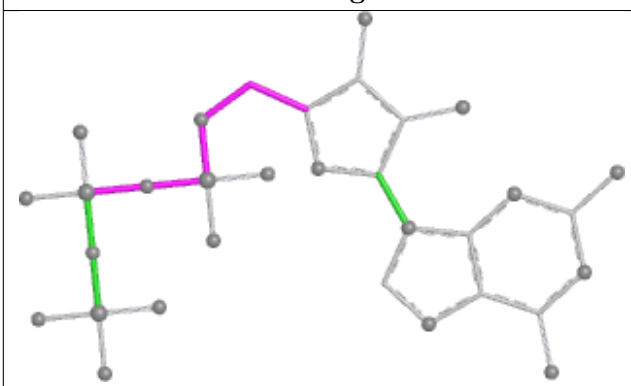

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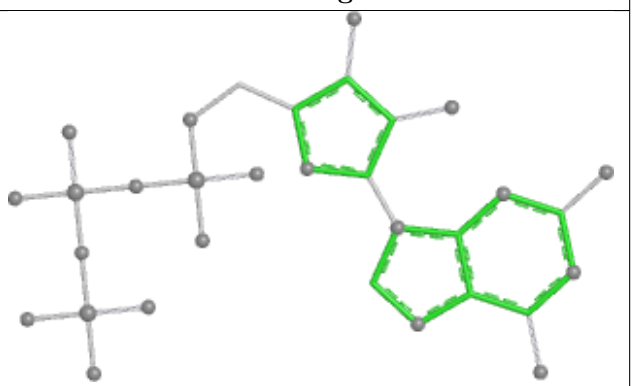
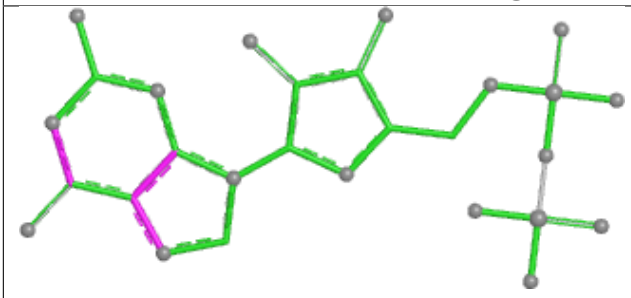


Rings

Ligand GDP HB 502



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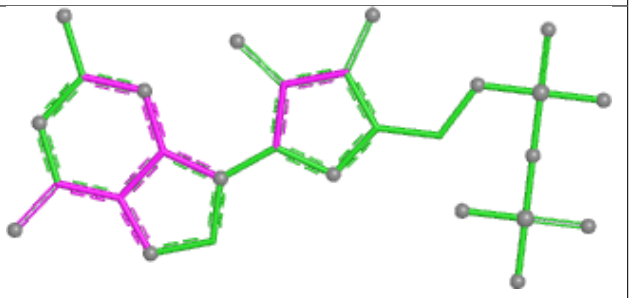

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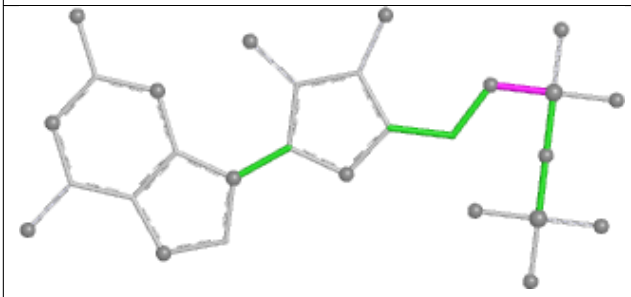

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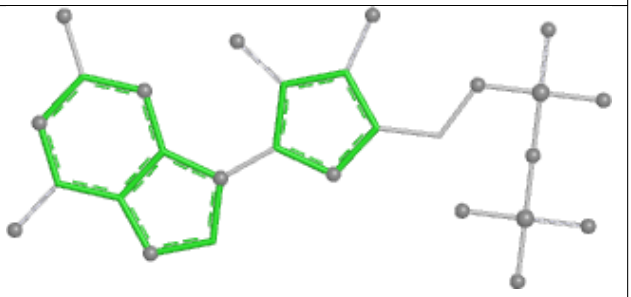
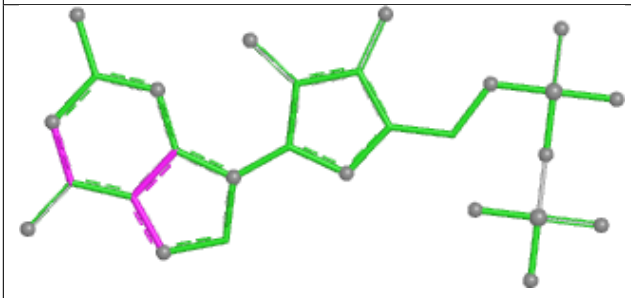


Rings

Ligand GDP NH 502



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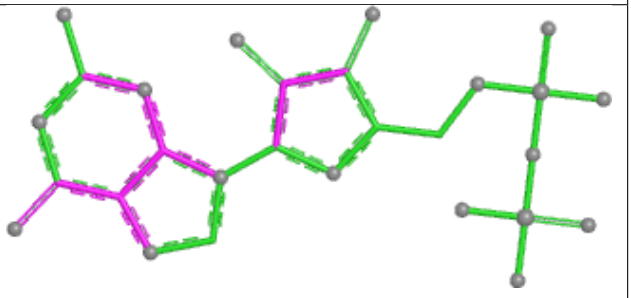

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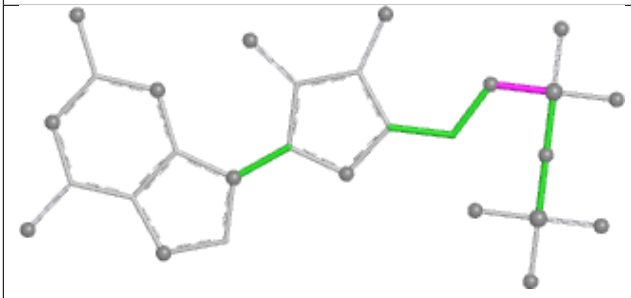

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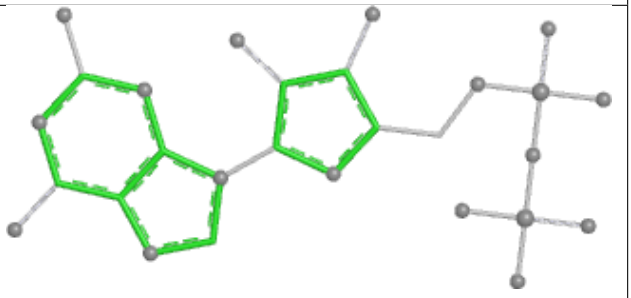

Rings

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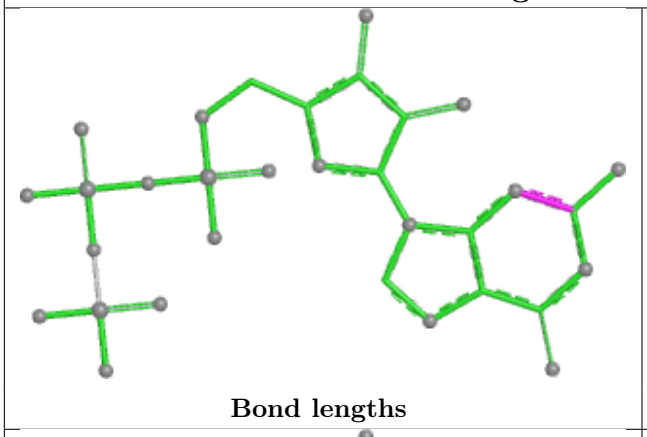

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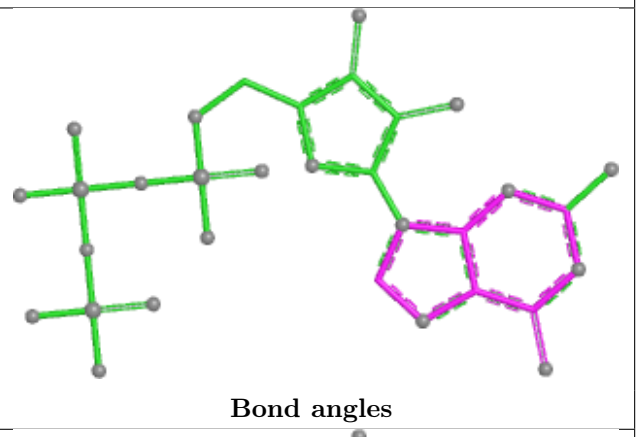

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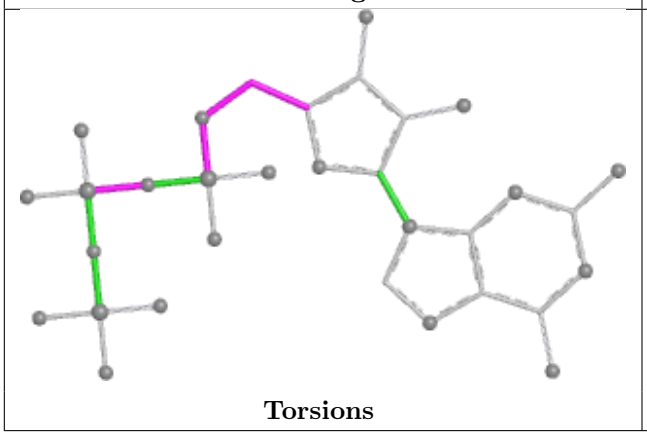

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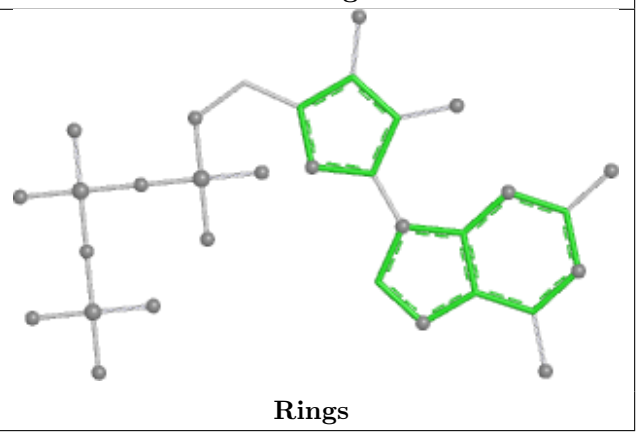

Rings

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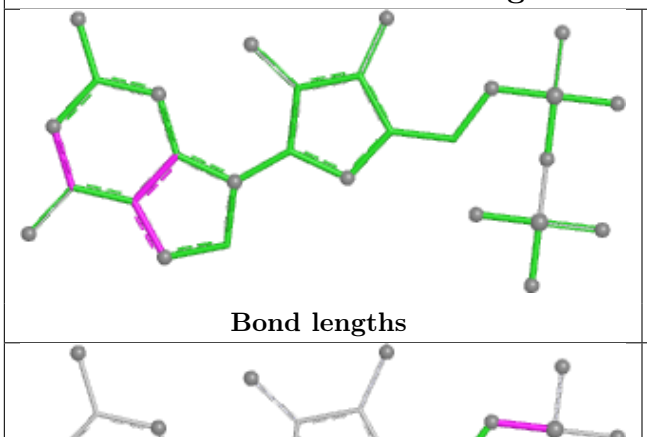

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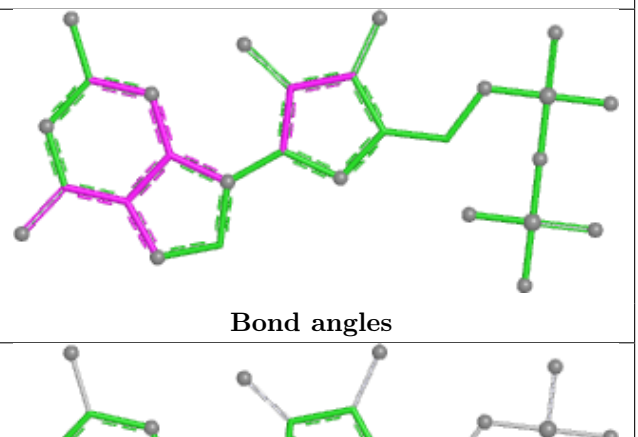

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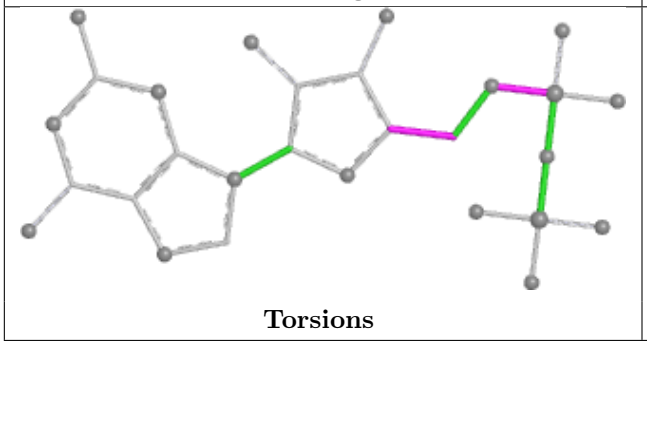

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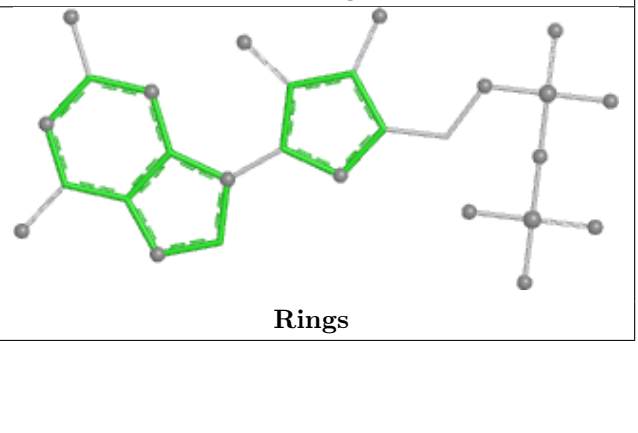

Rings

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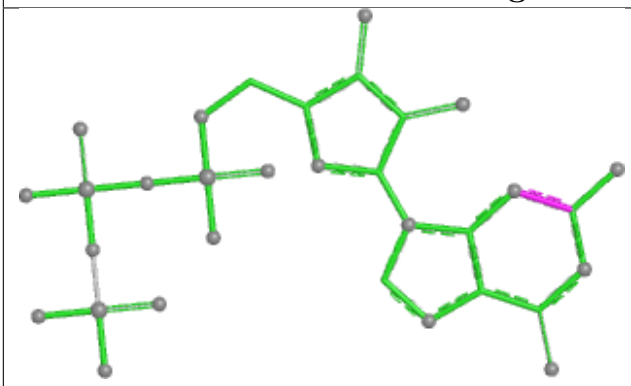

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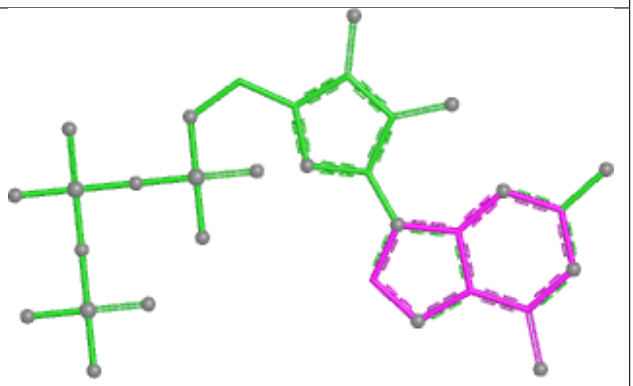

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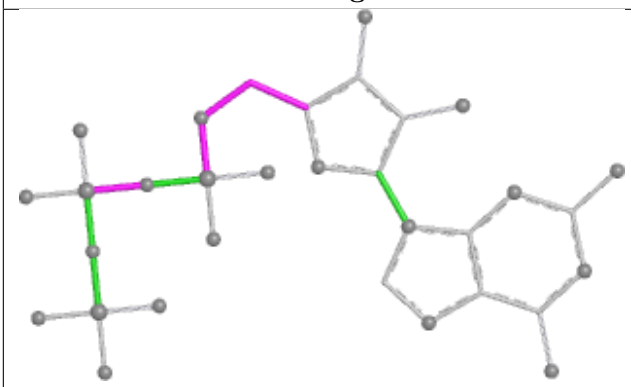

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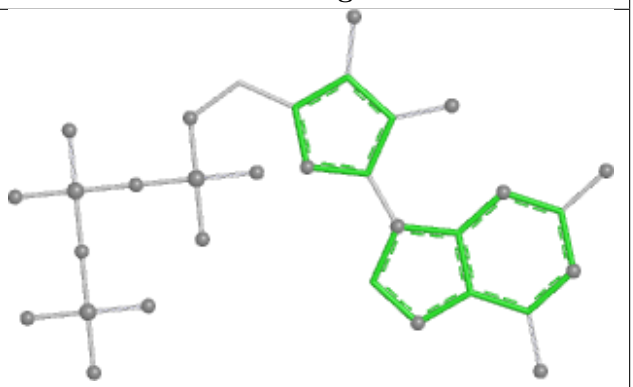
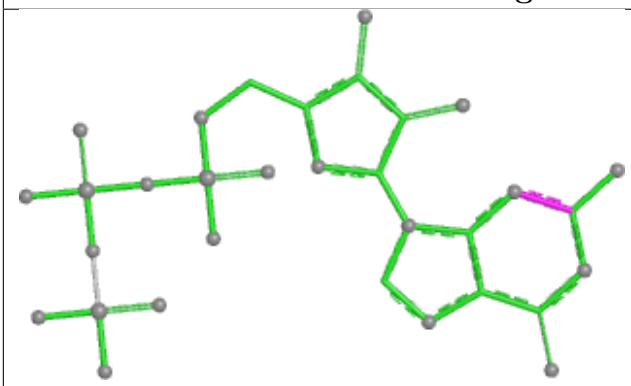


Rings

Ligand GTP UI 501



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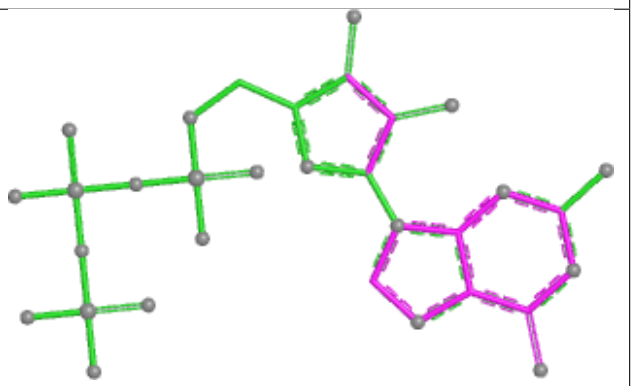

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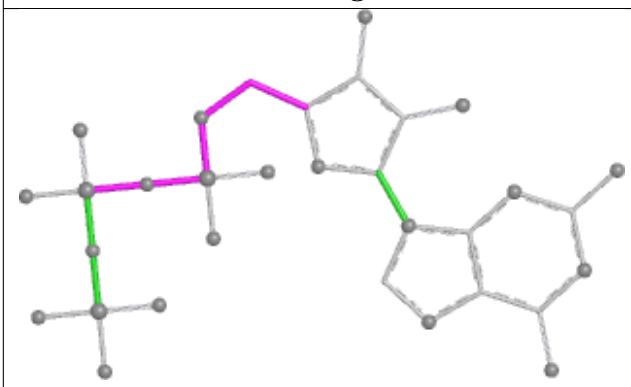

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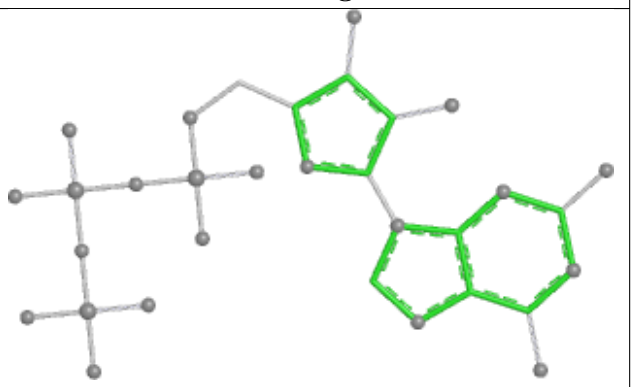
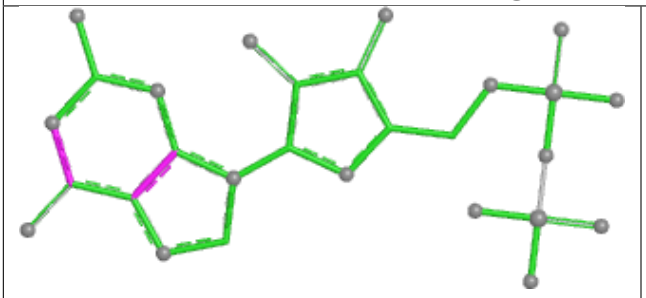


Rings

Ligand GDP TH 502



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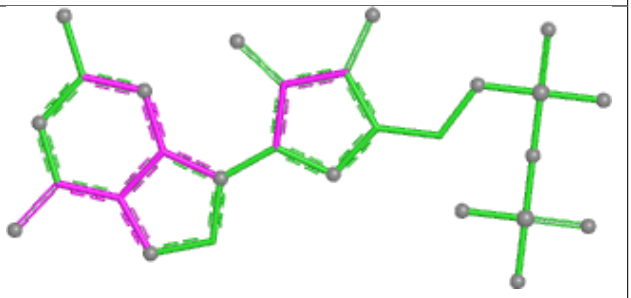

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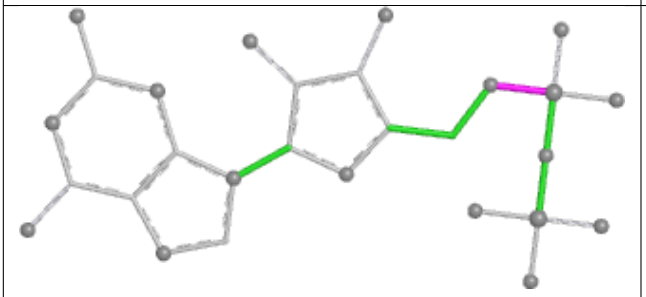

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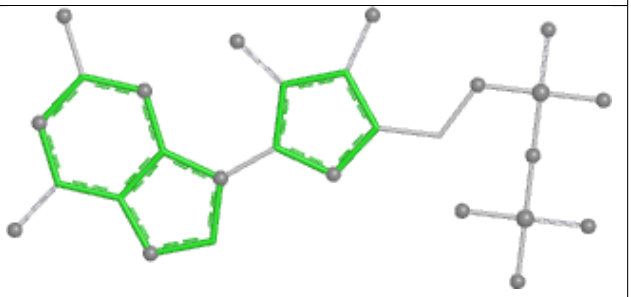

Rings

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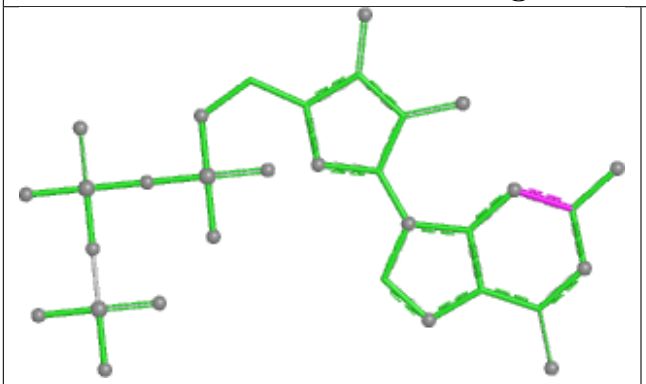

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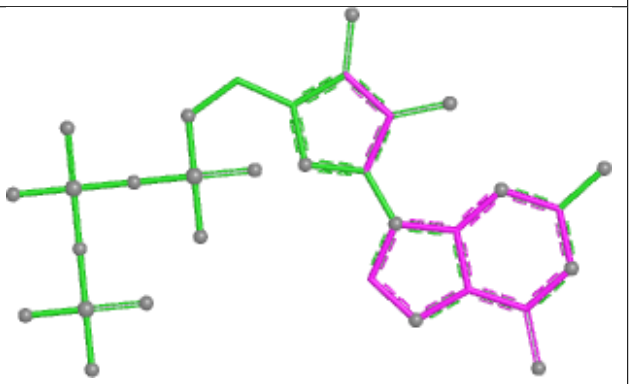

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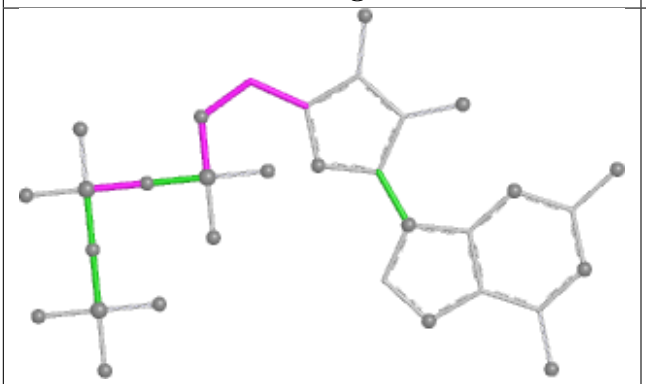

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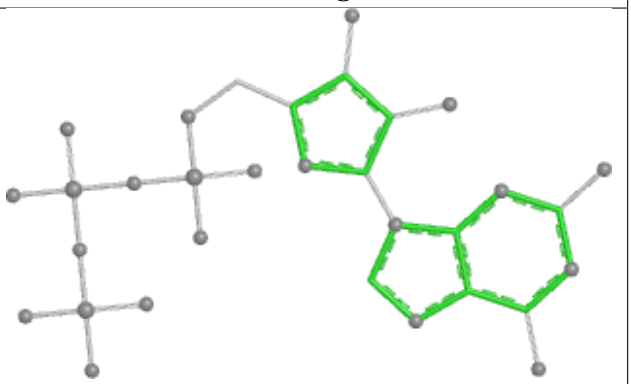
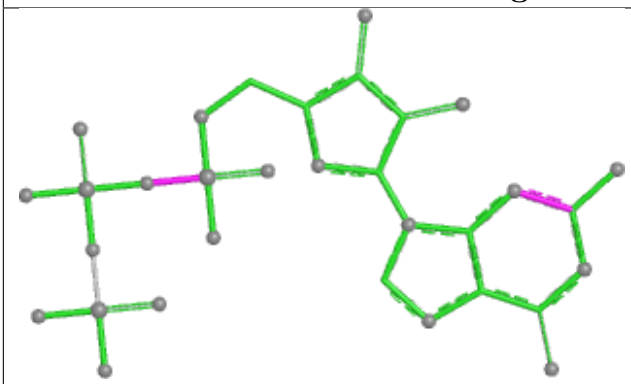


Rings

Ligand GTP VA 501



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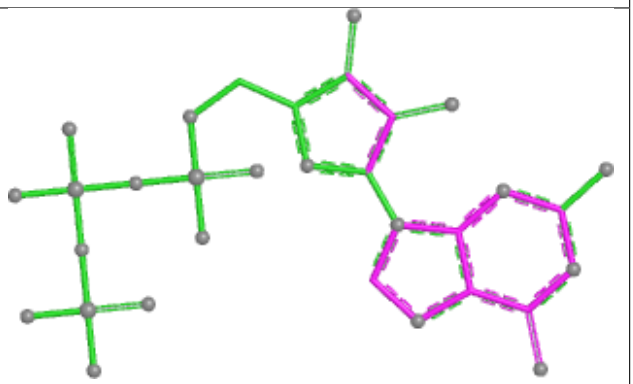

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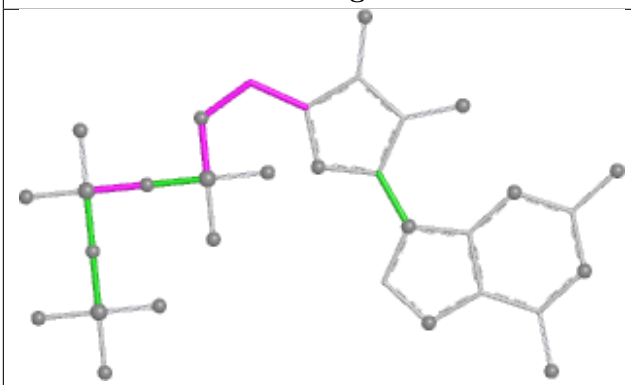

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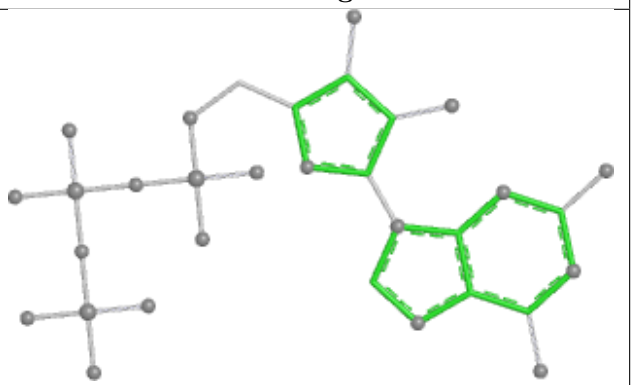

Rings

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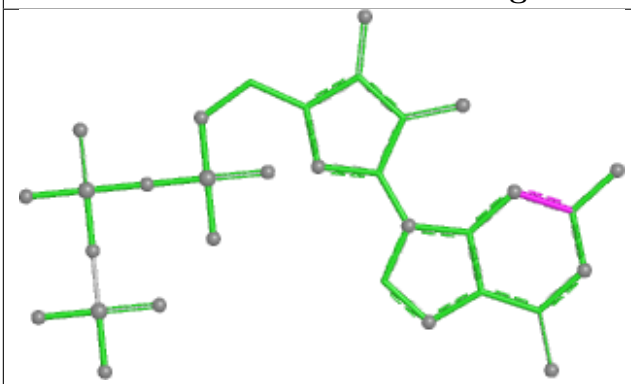

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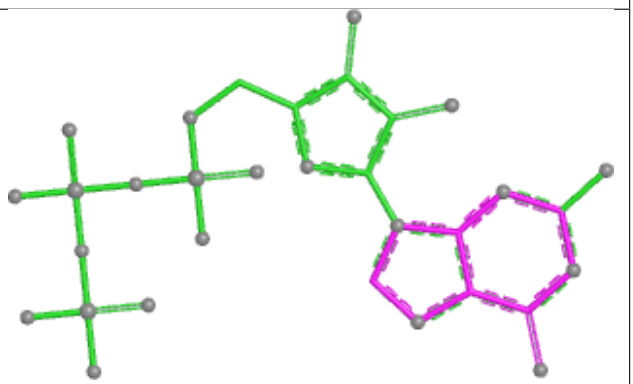

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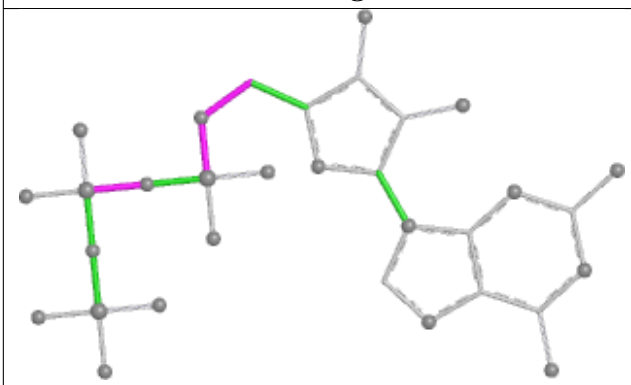

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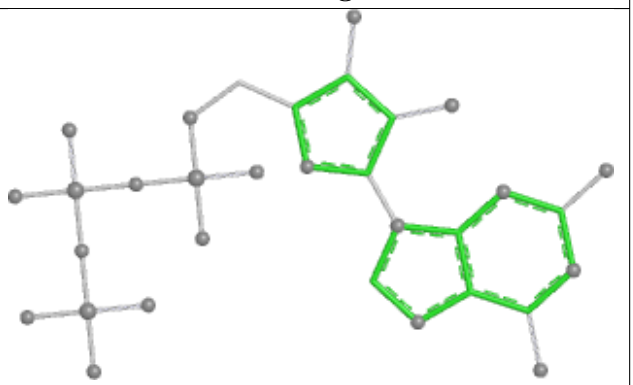
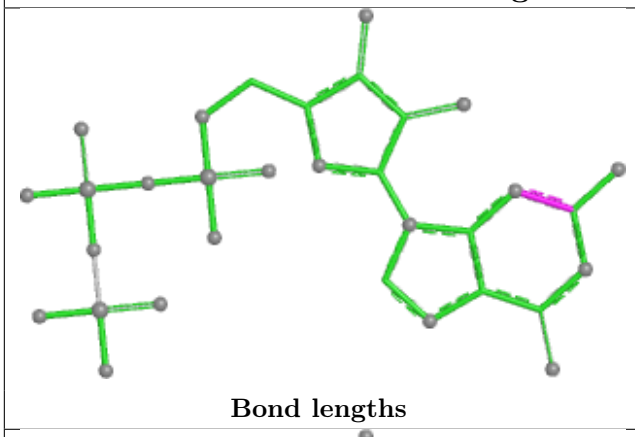


Rings

Ligand GTP FK 501



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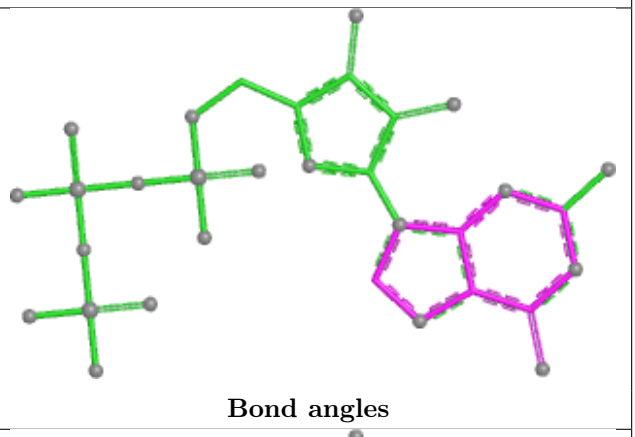

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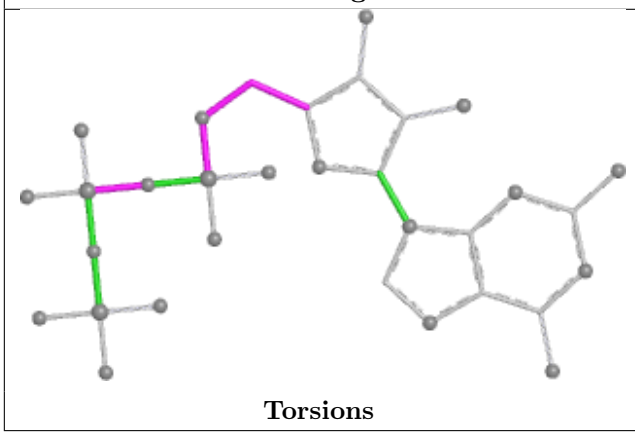

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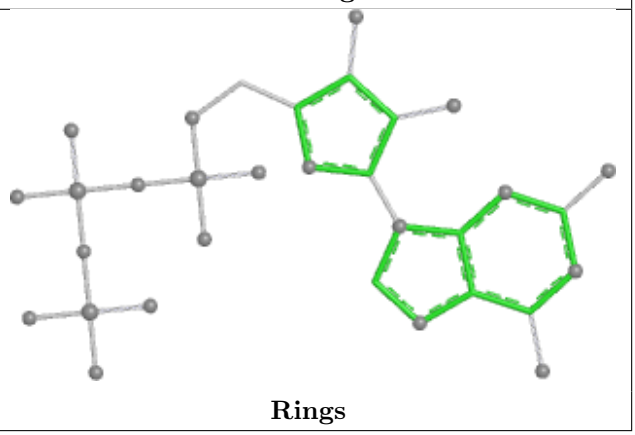
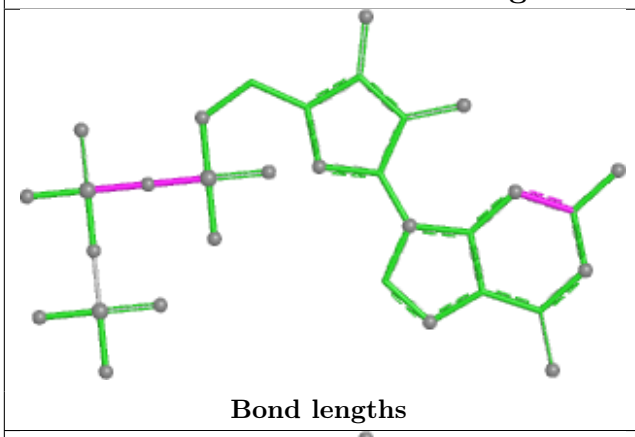


Rings

Ligand GTP RK 501



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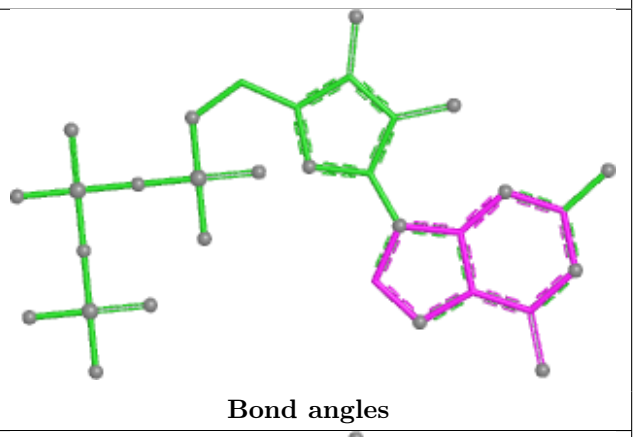

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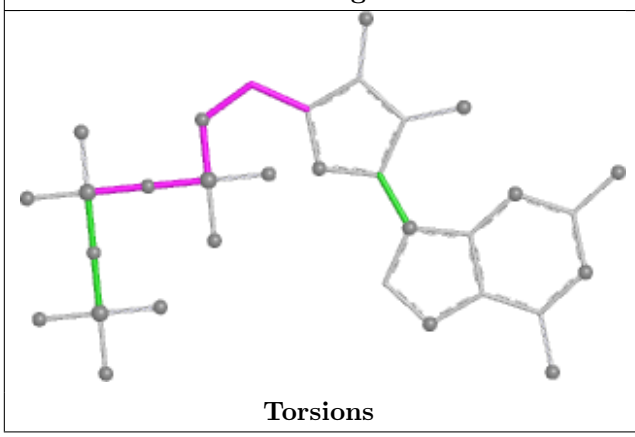

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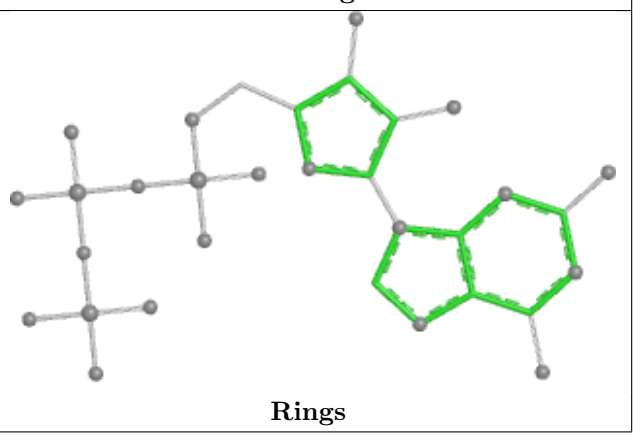
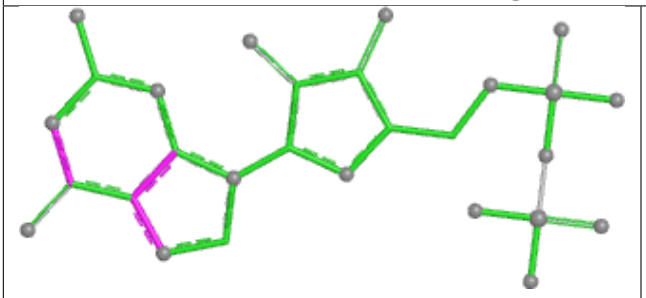


Rings

Ligand GDP QN 502



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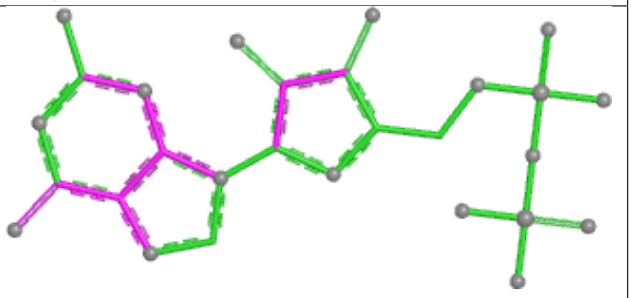

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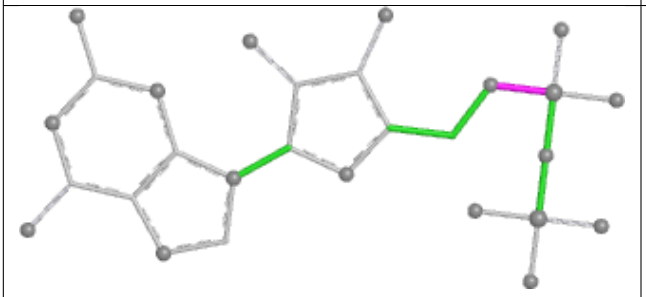

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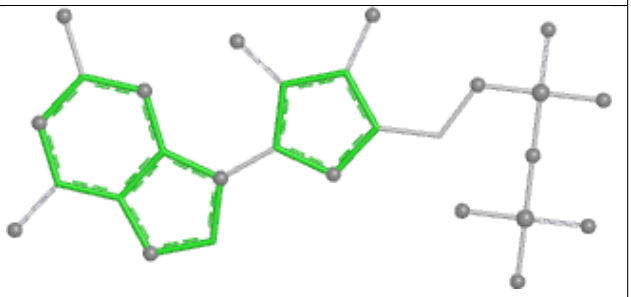
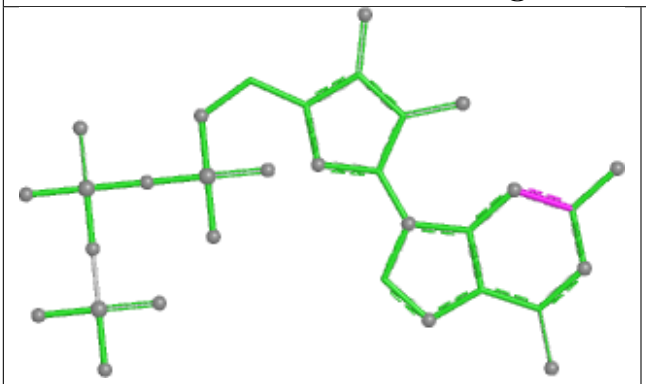


Rings

Ligand GTP AG 501



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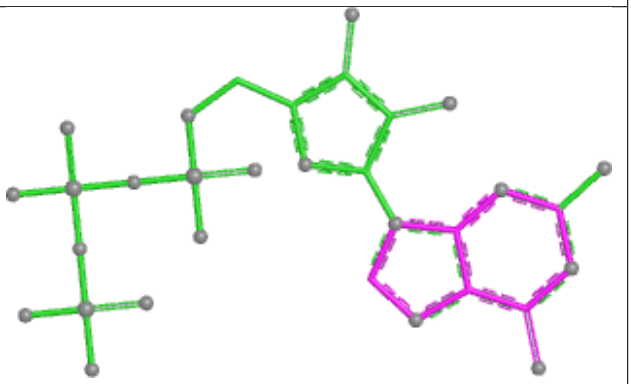

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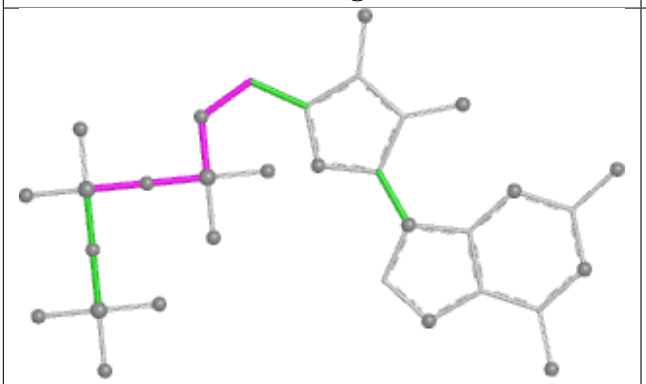

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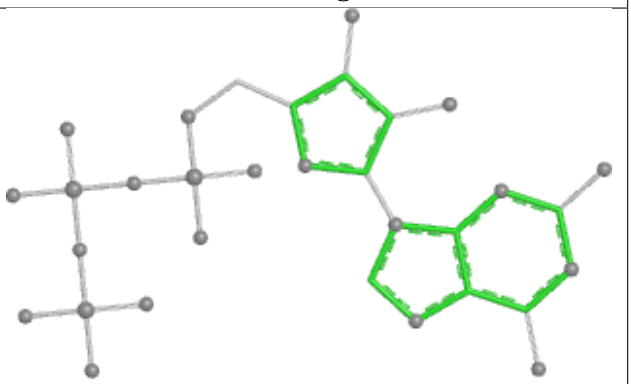
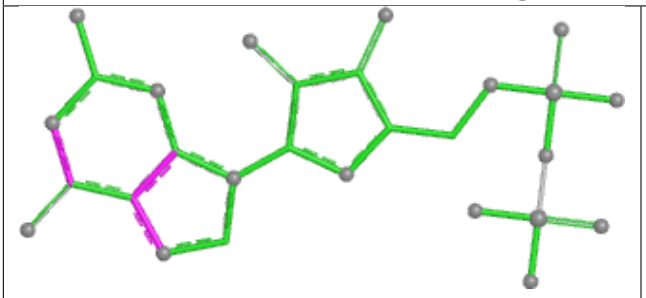


Rings

Ligand GDP IH 502



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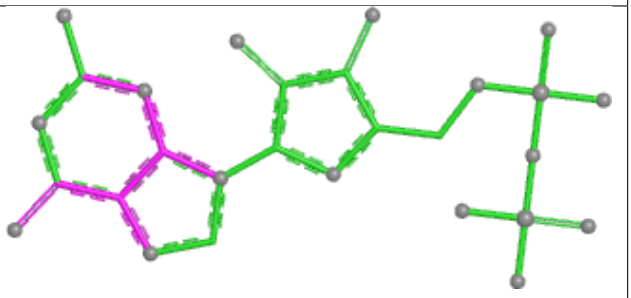

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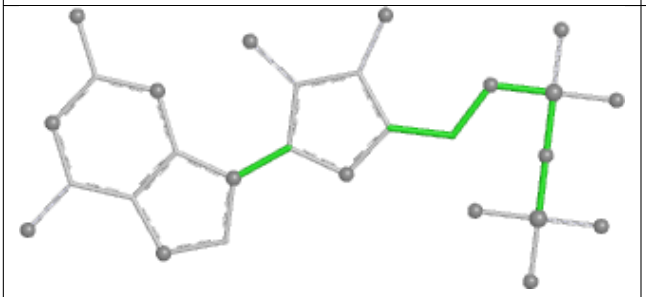

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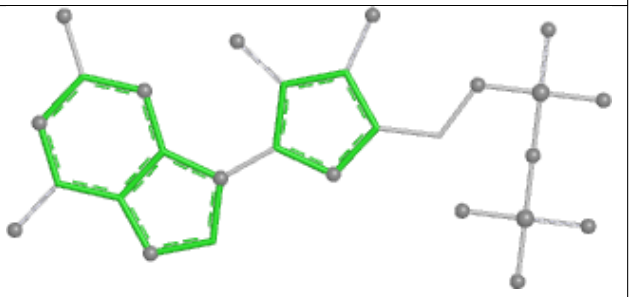
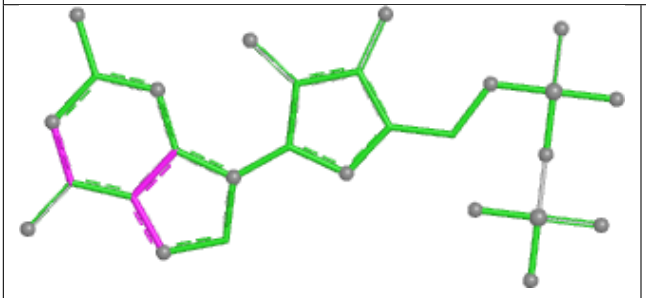


Rings

Ligand GDP CF 502



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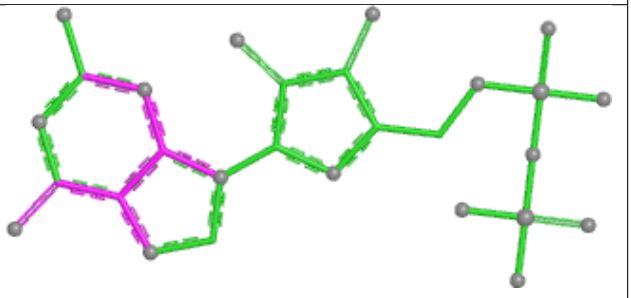

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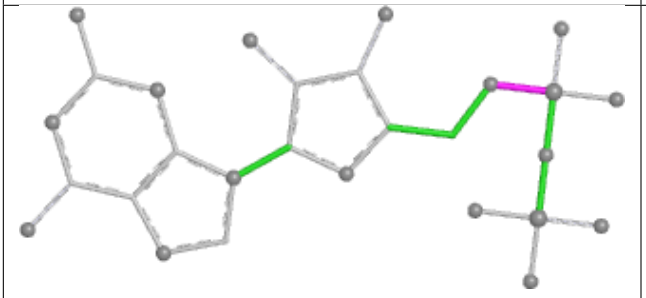

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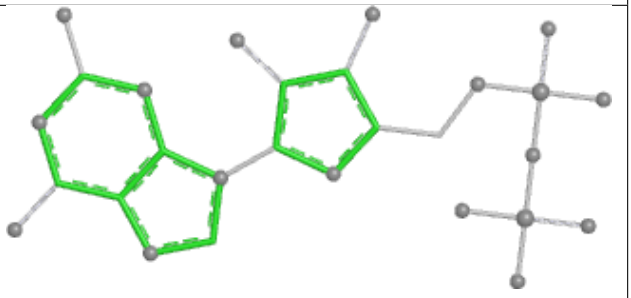
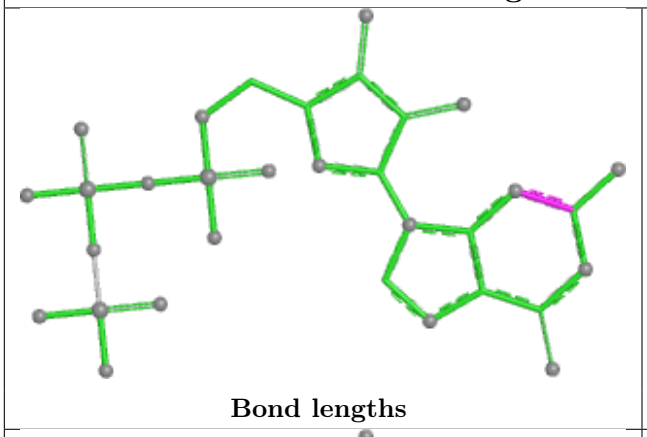


Rings

Ligand GTP WO 501



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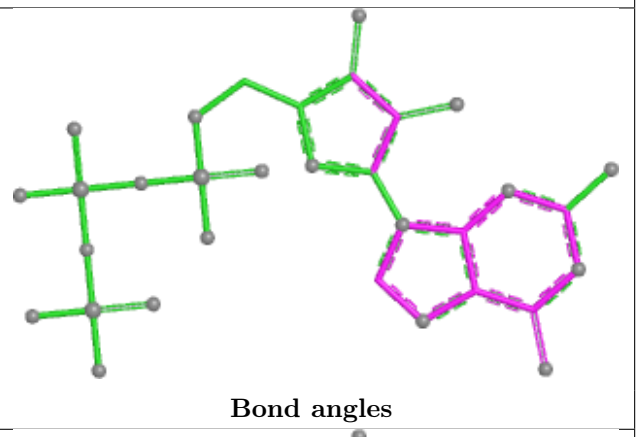

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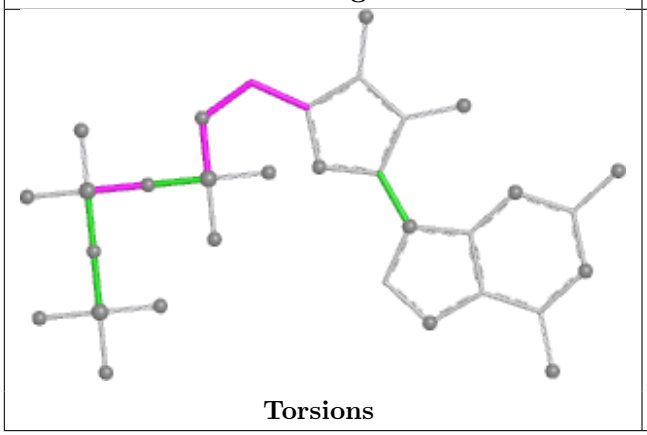

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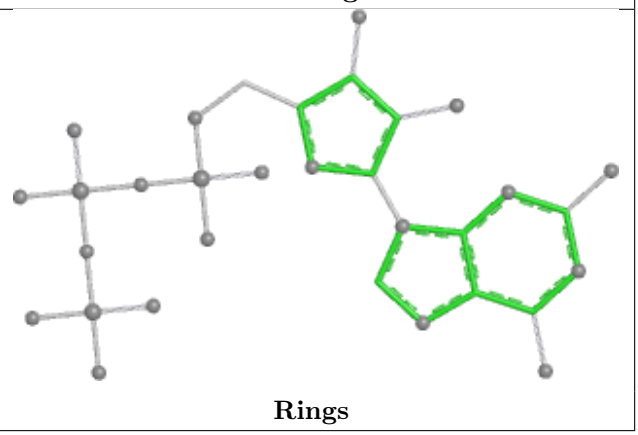
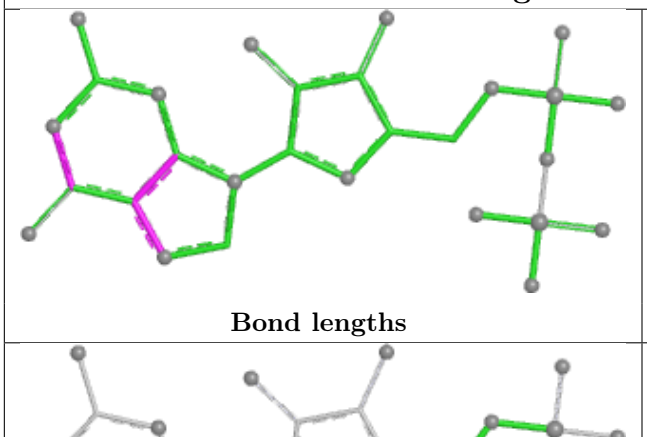


Rings

Ligand GDP BJ 502



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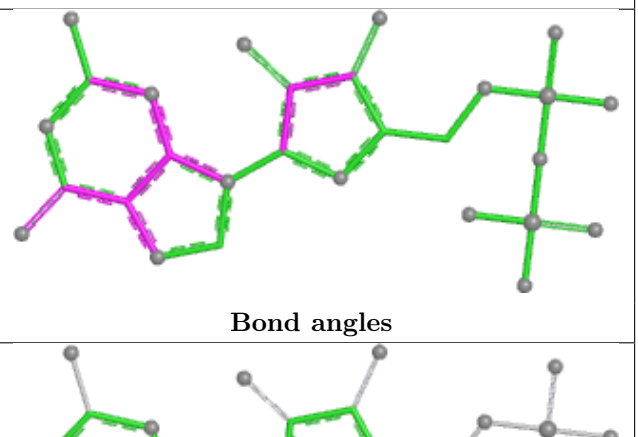

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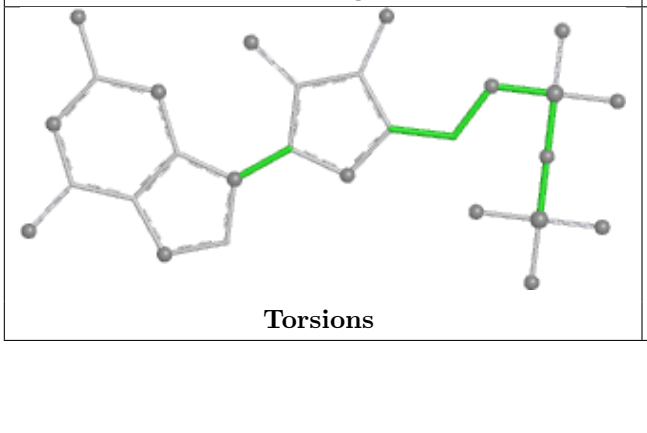

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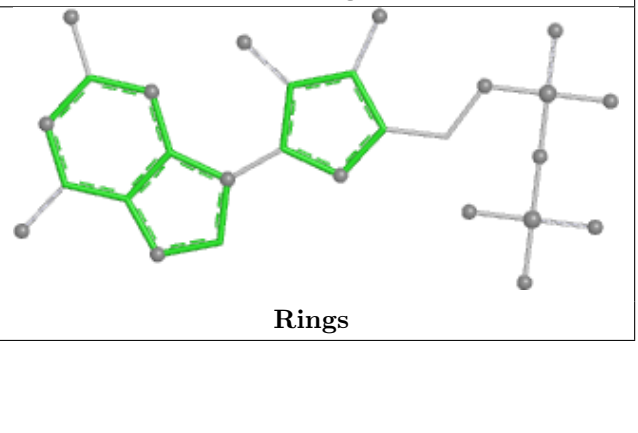
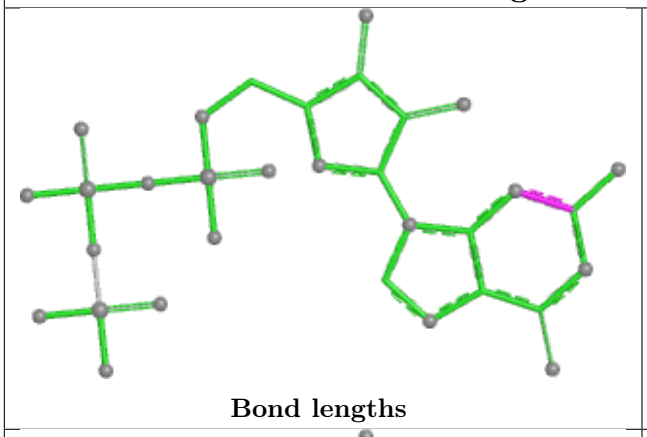


Rings

Ligand GTP CO 501



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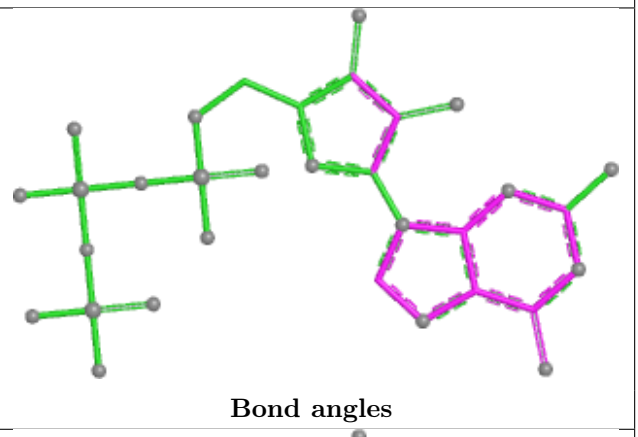

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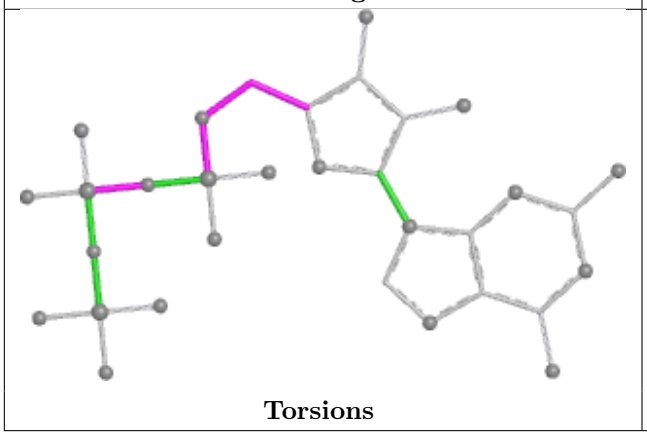

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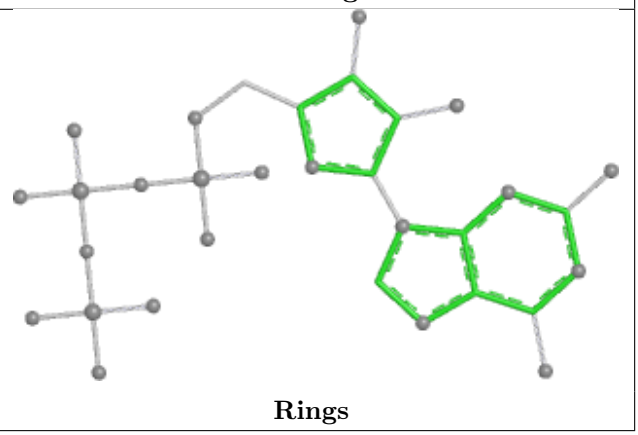
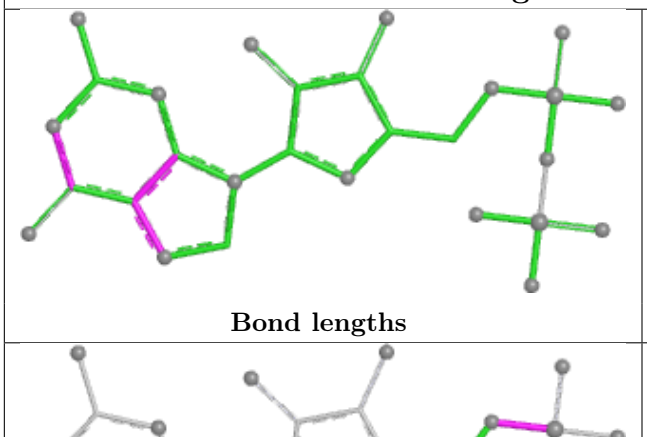


Rings

Ligand GDP LB 502



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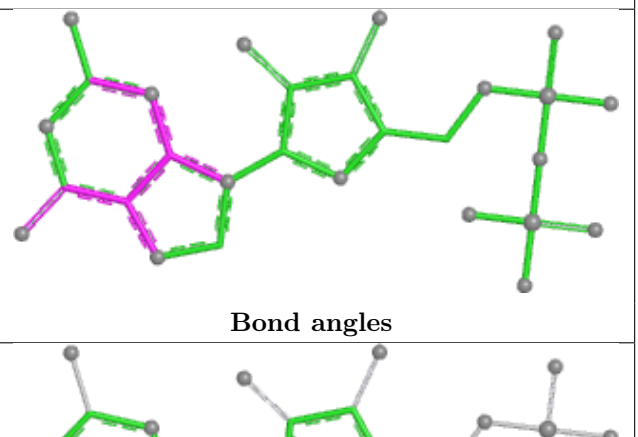

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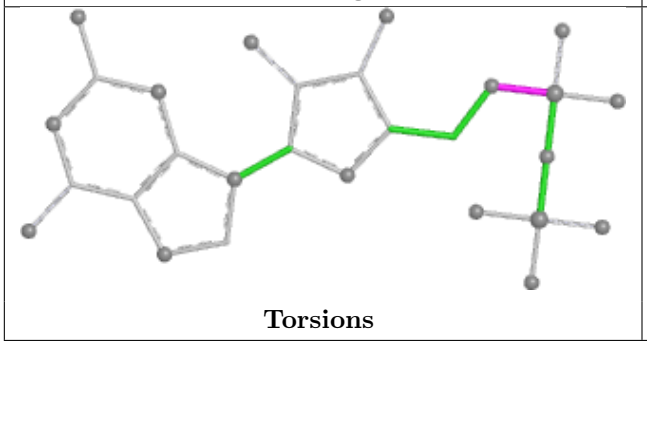

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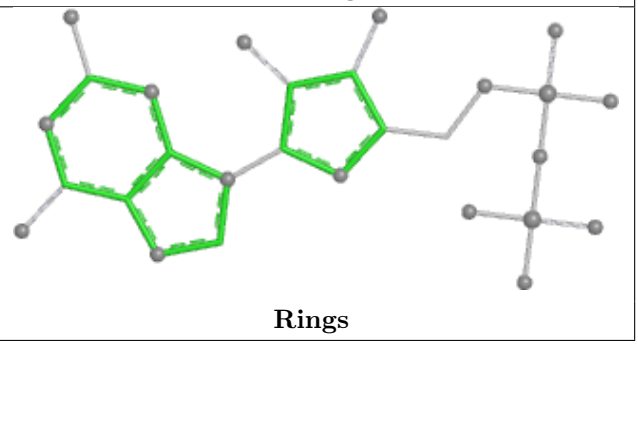
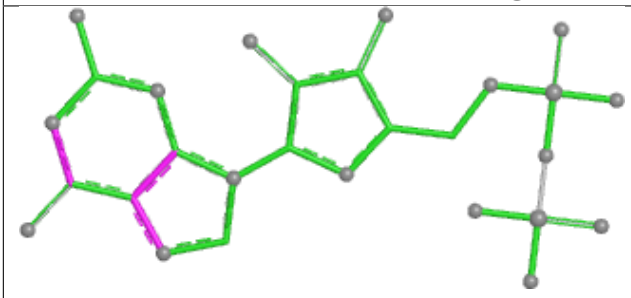
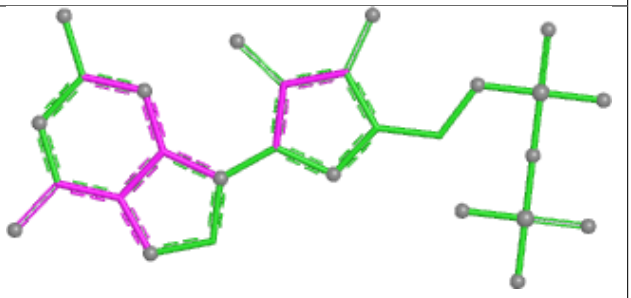
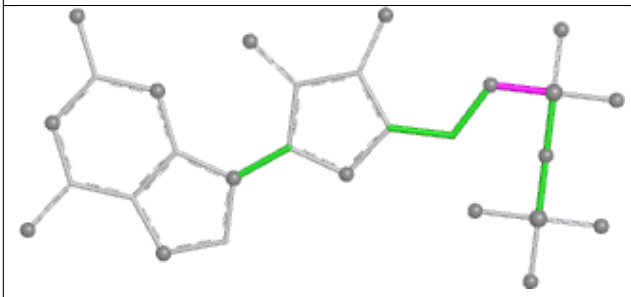
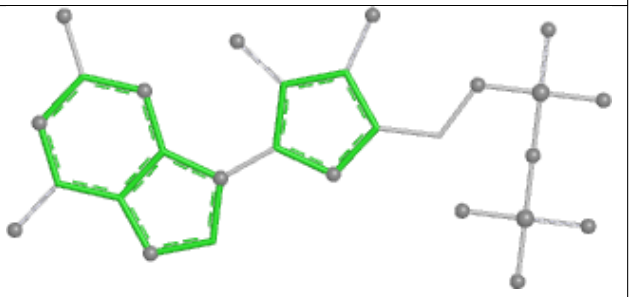


Rings

Ligand GDP TD 502	
 Bond lengths	 Bond angles
 Torsions	 Rings

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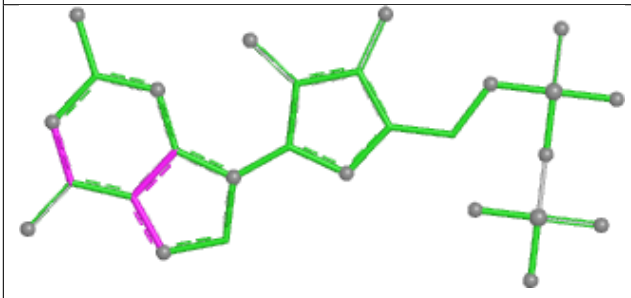
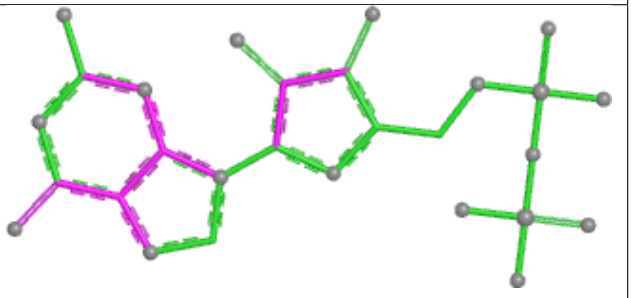
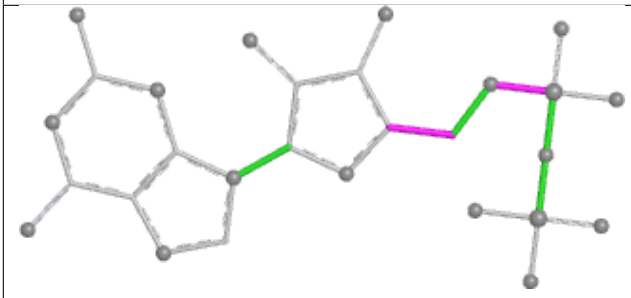
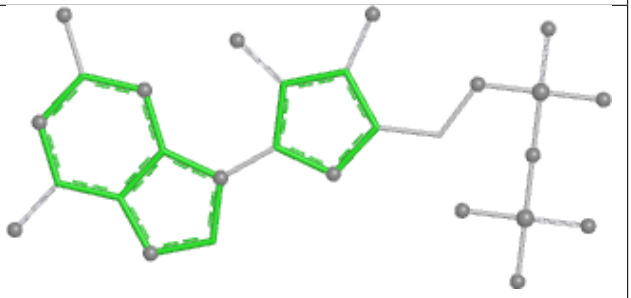
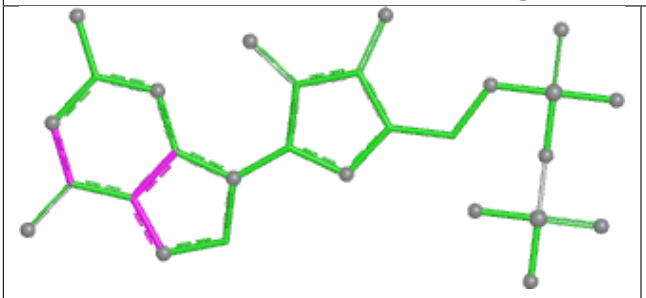
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP JL 502



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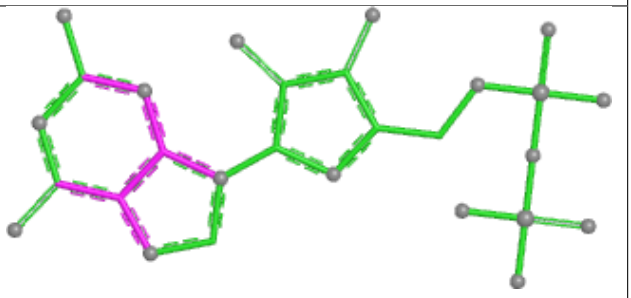

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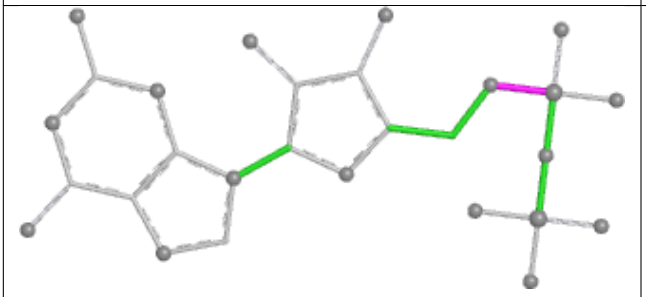

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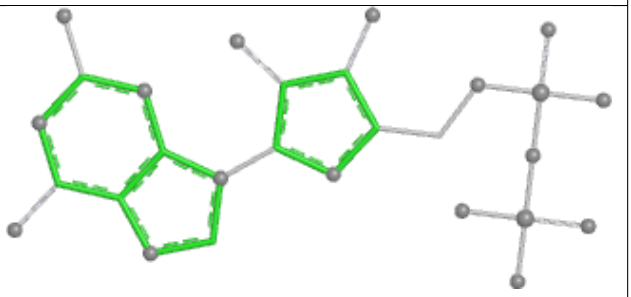
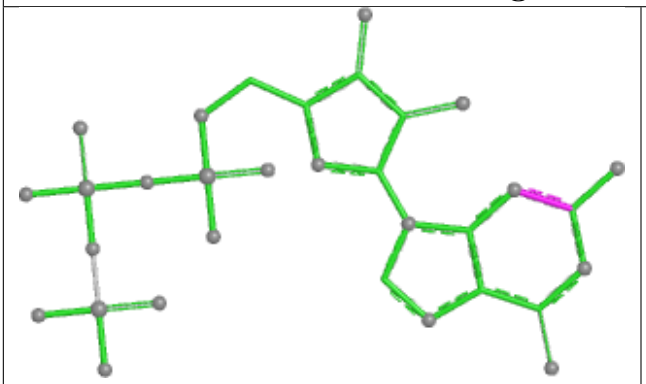


Rings

Ligand GTP EG 501



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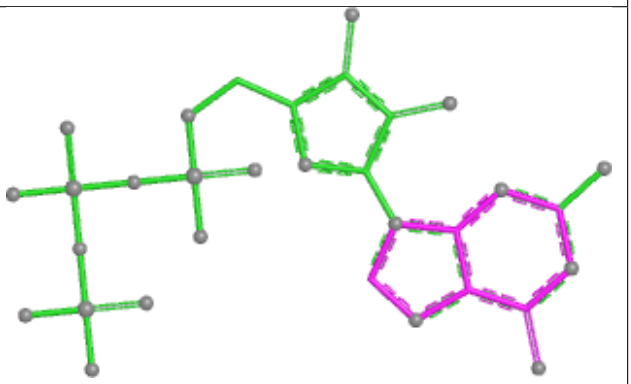

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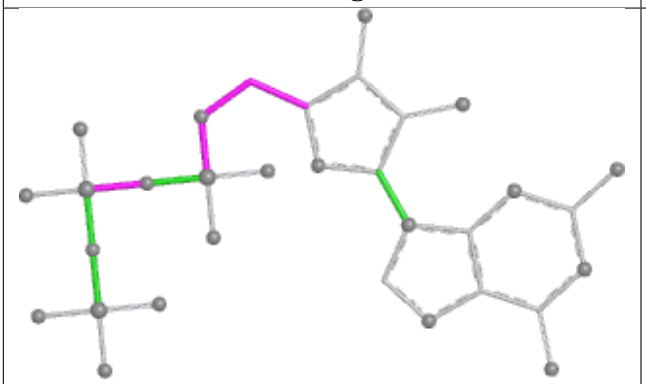

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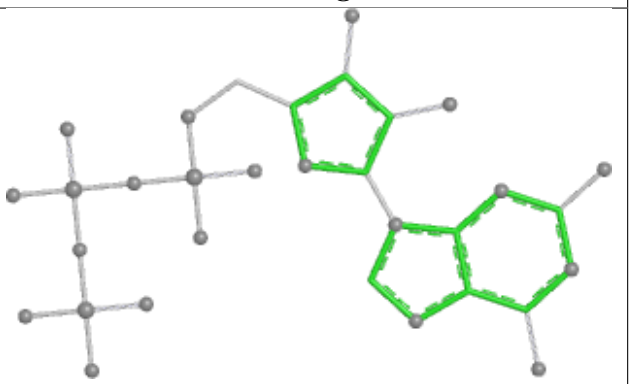
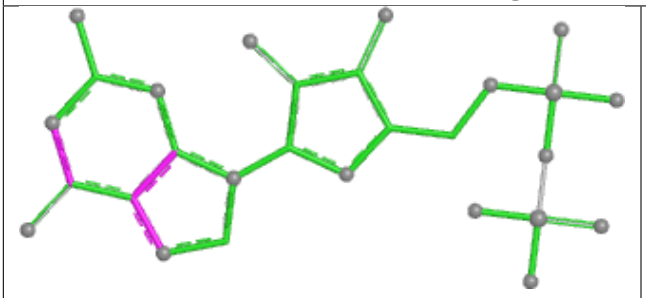


Rings

Ligand GDP UN 502



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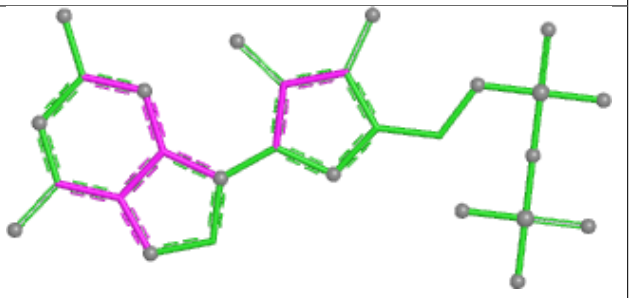

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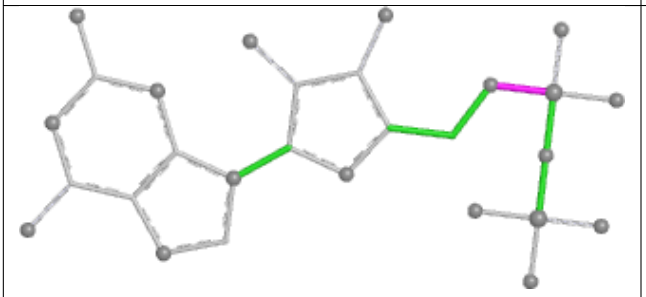

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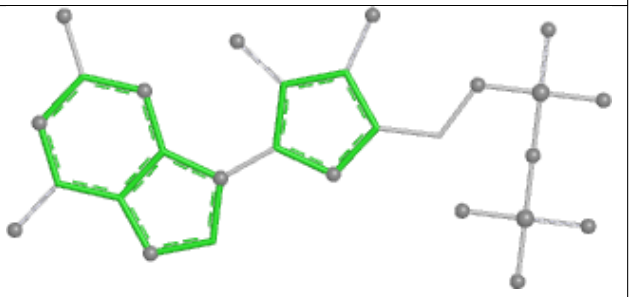
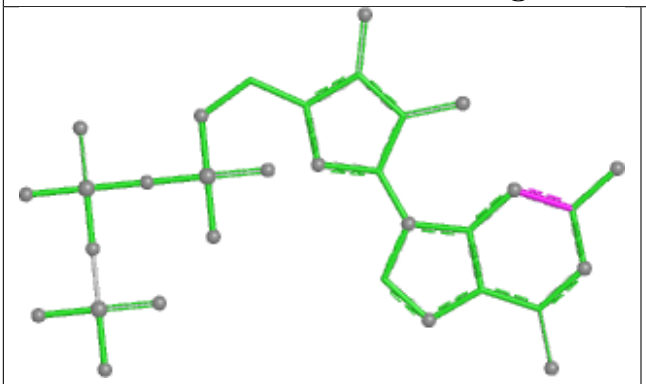


Rings

Ligand GTP GE 501



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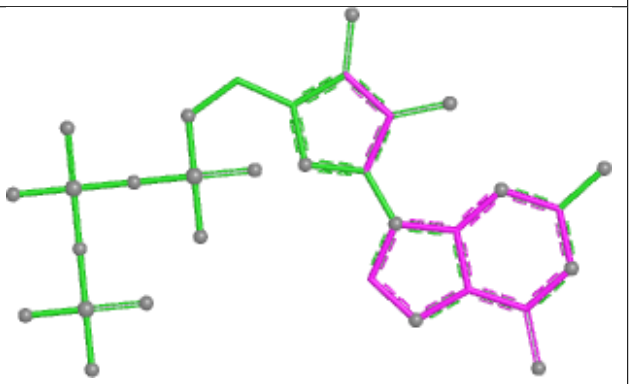

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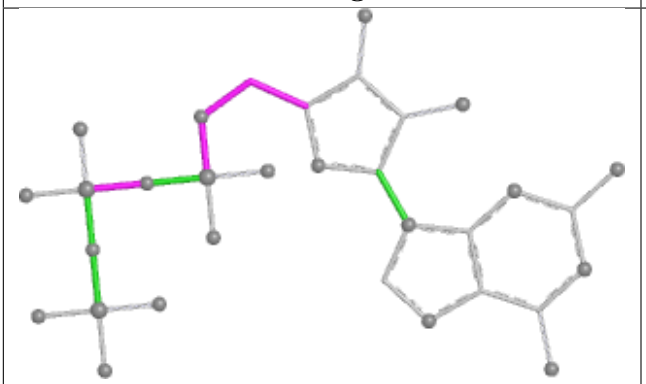

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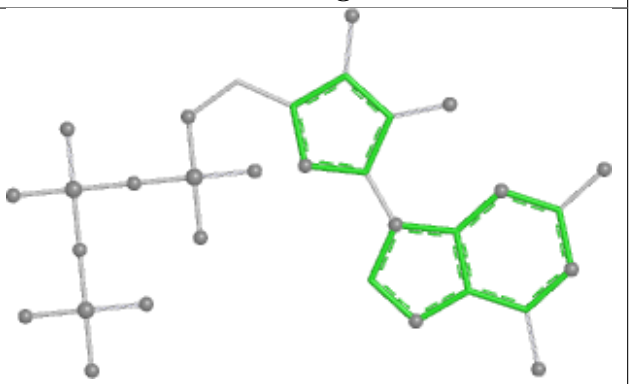
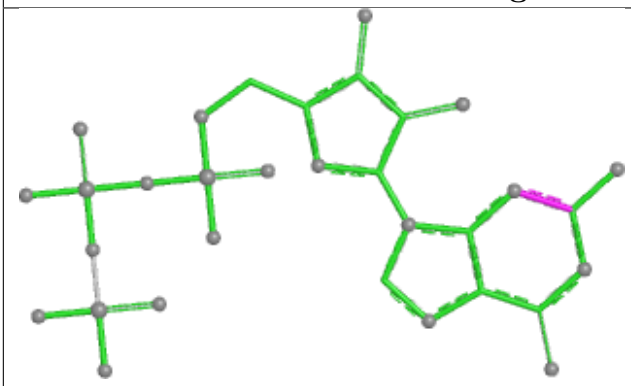


Rings

Ligand GTP CC 501



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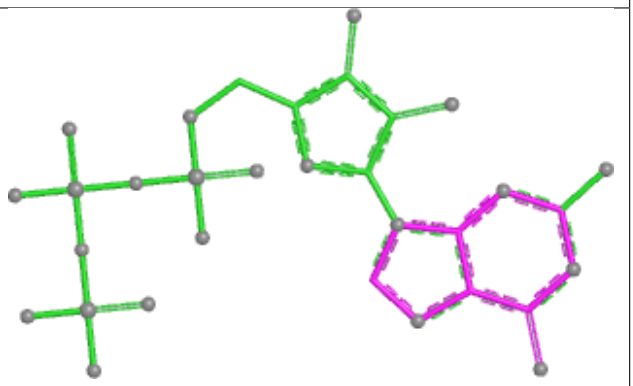

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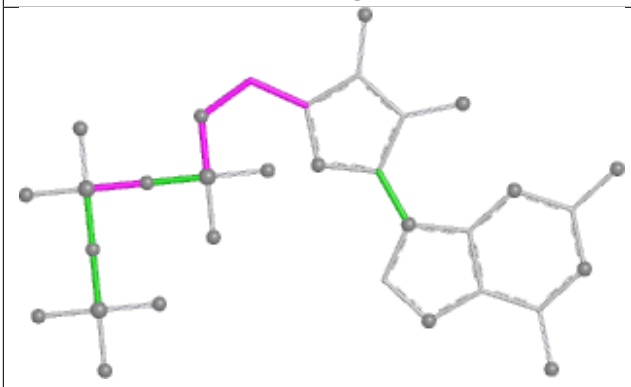

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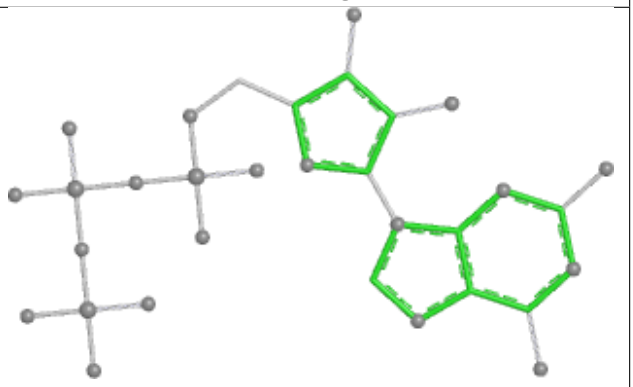
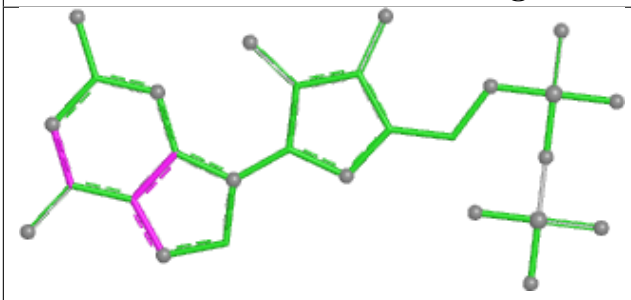


Rings

Ligand GDP OF 502



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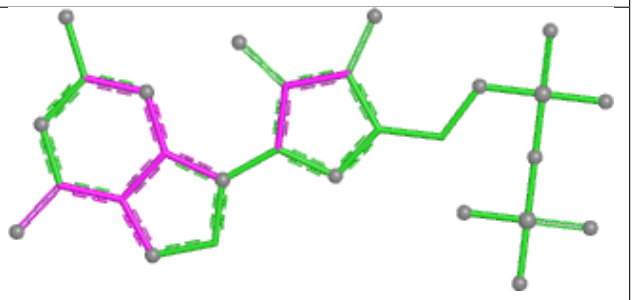

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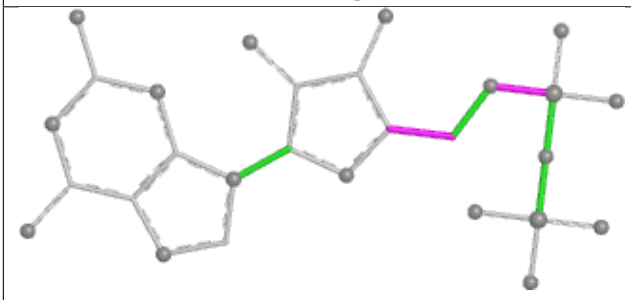

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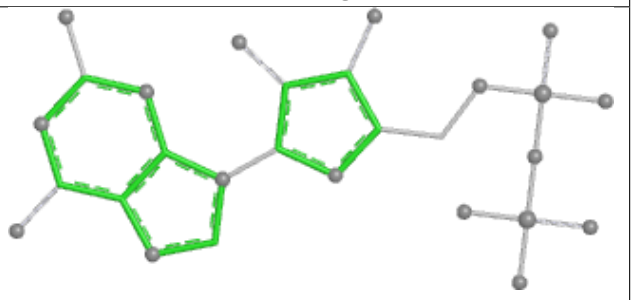
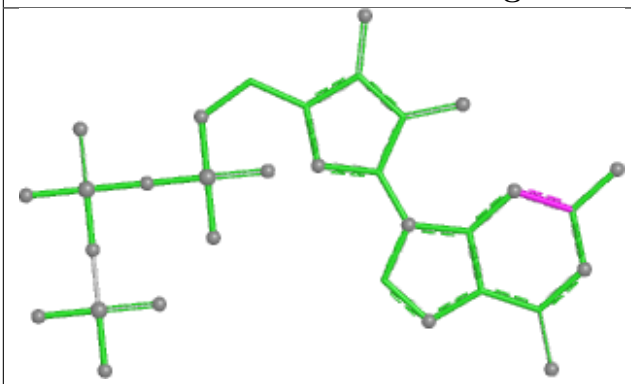


Rings

Ligand GTP WG 501



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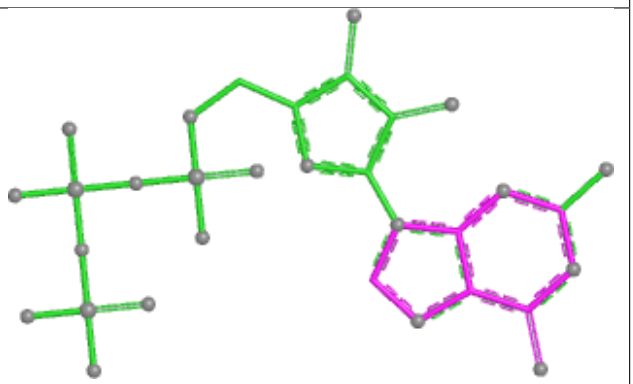

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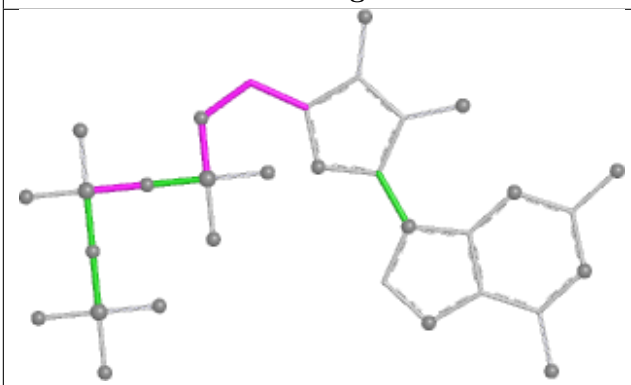

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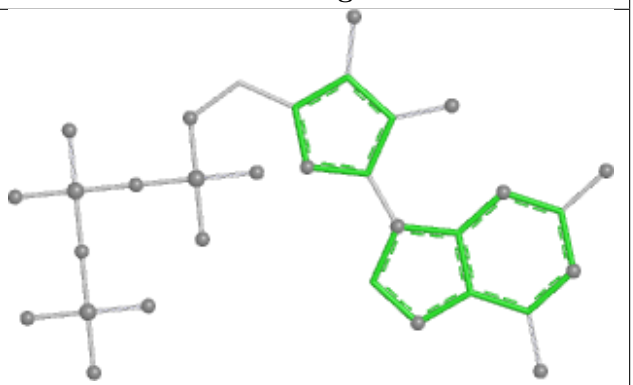

Rings

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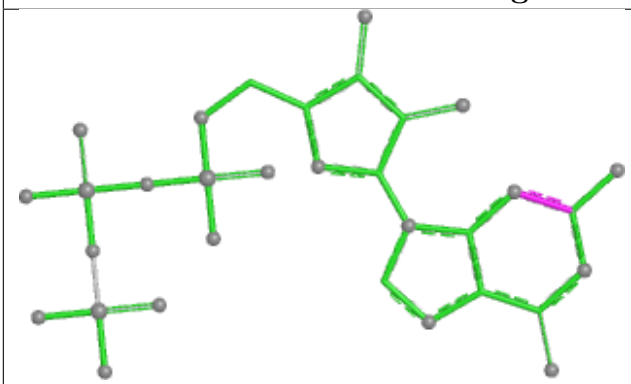

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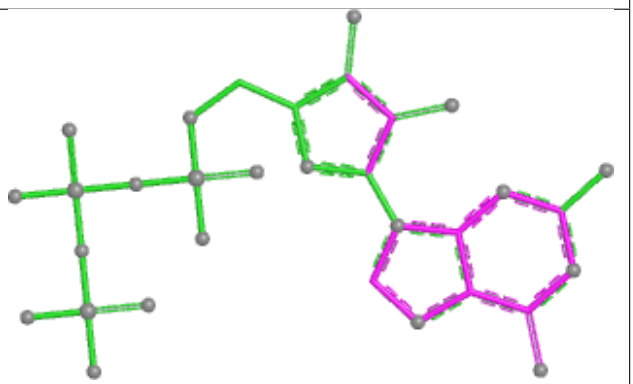

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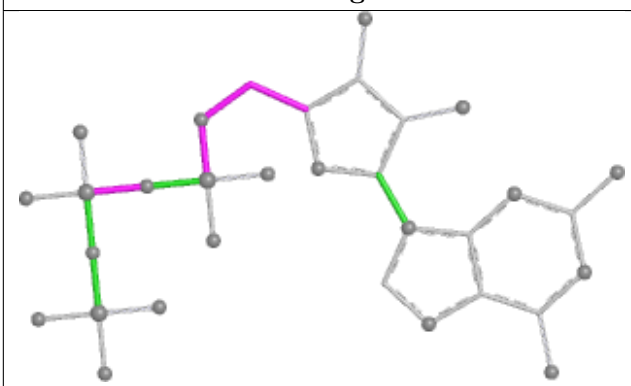

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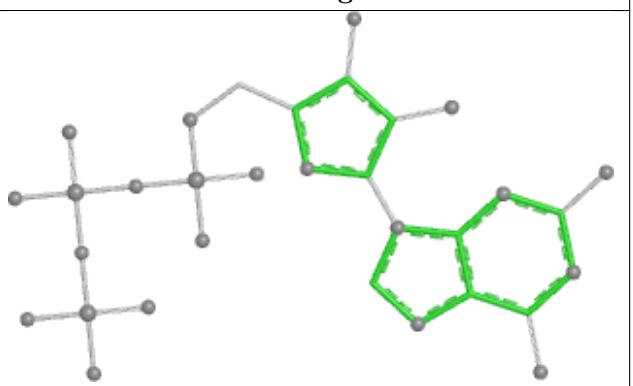

Rings

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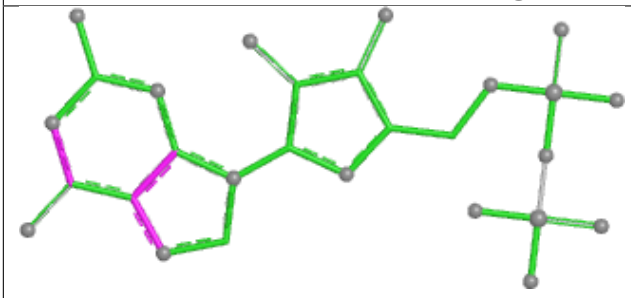

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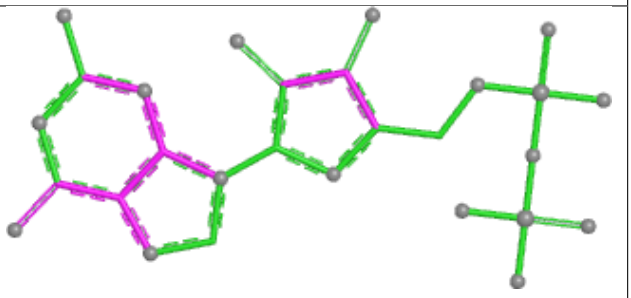

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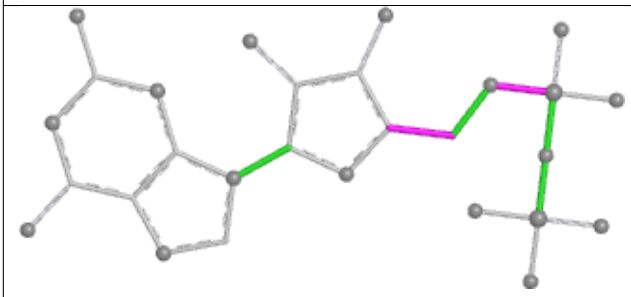

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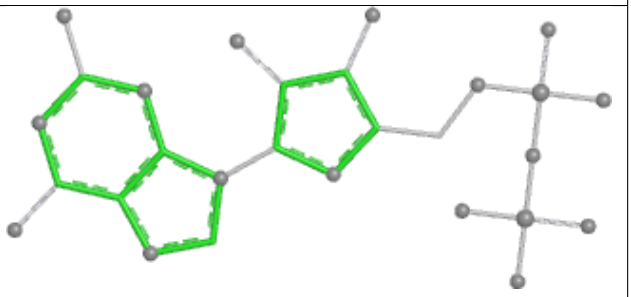

Rings

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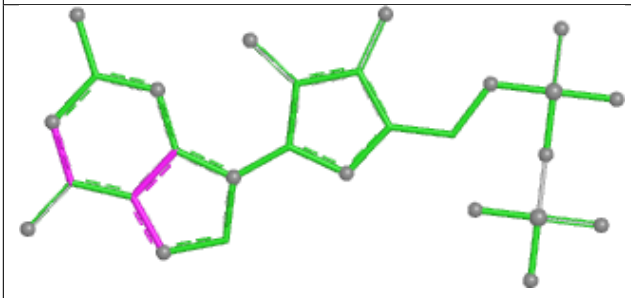

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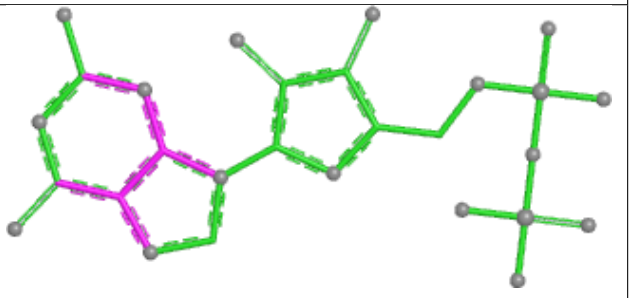

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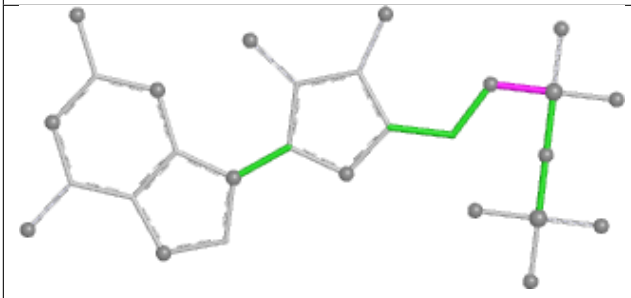

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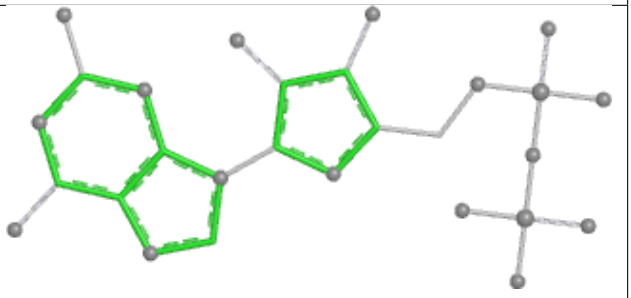
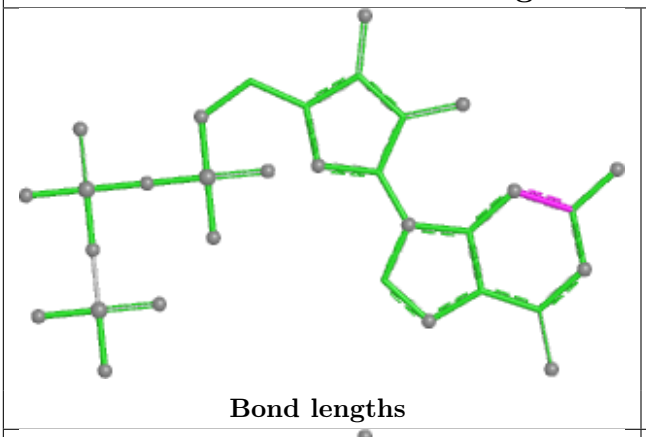


Rings

Ligand GTP OI 501



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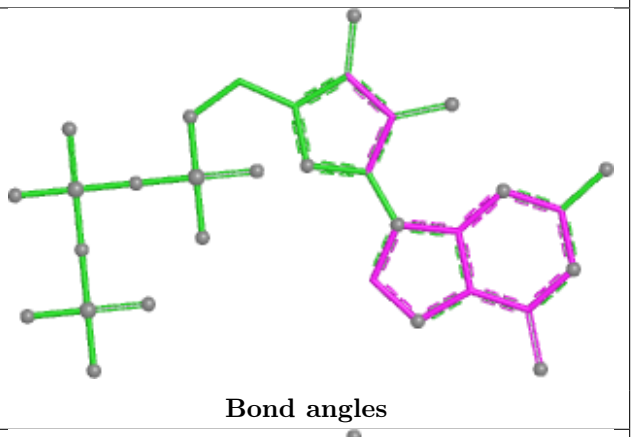

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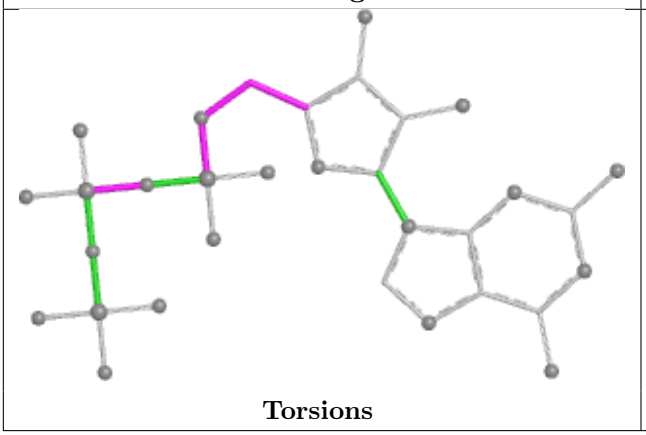

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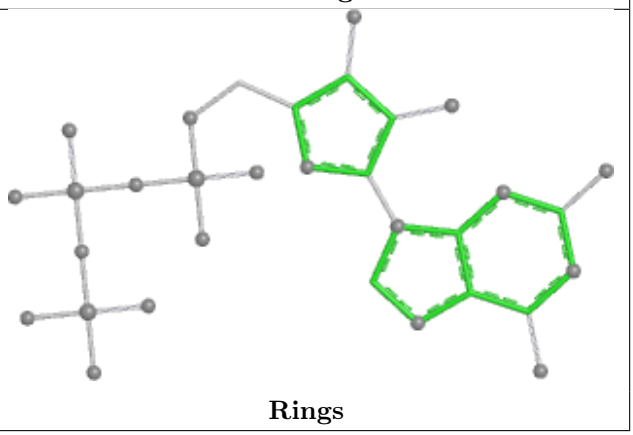
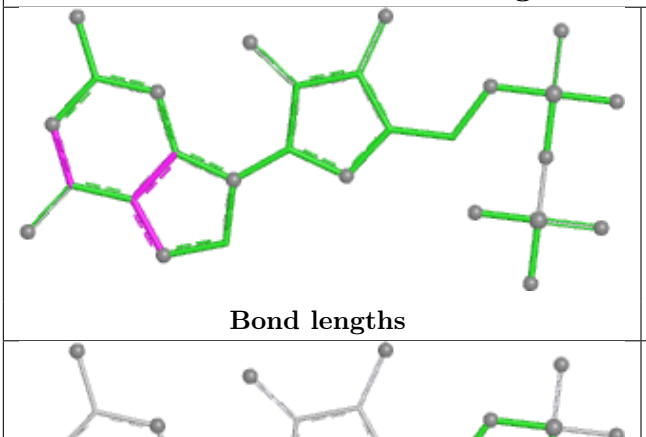


Rings

Ligand GDP ID 502



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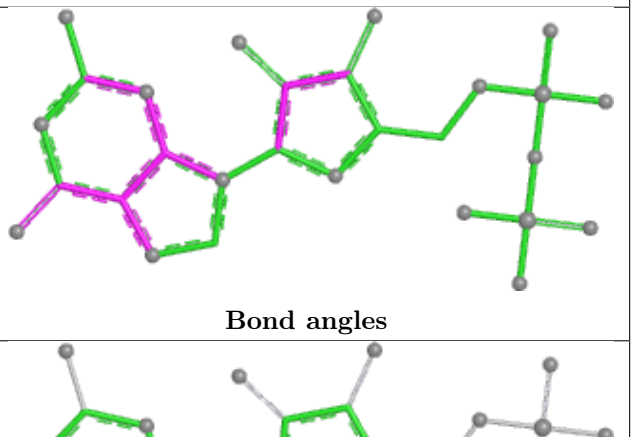

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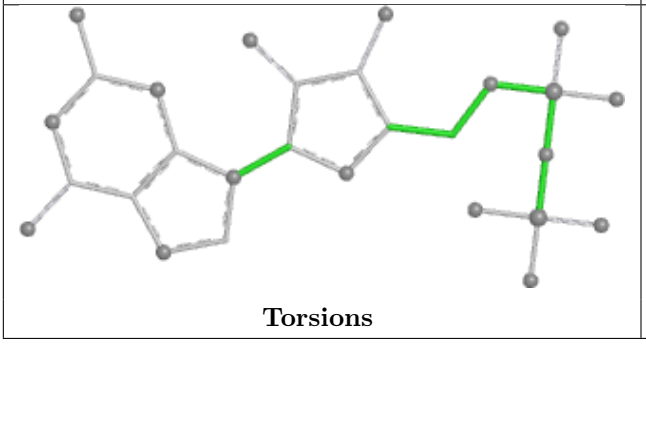

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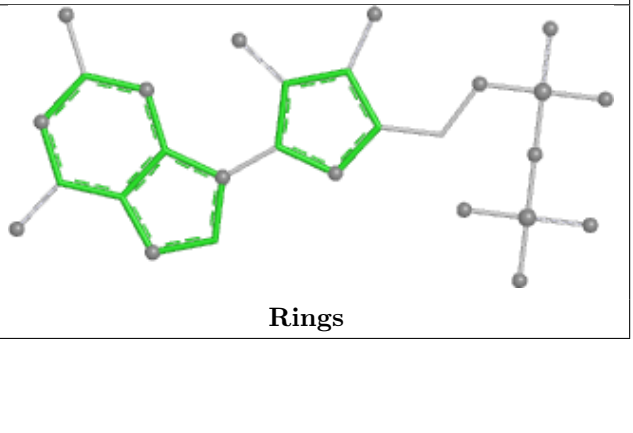

Rings

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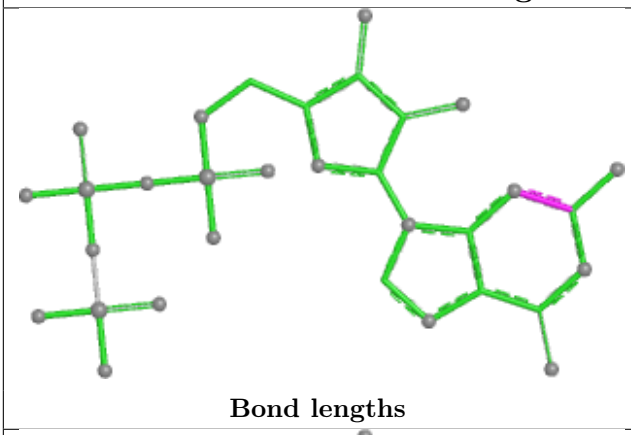

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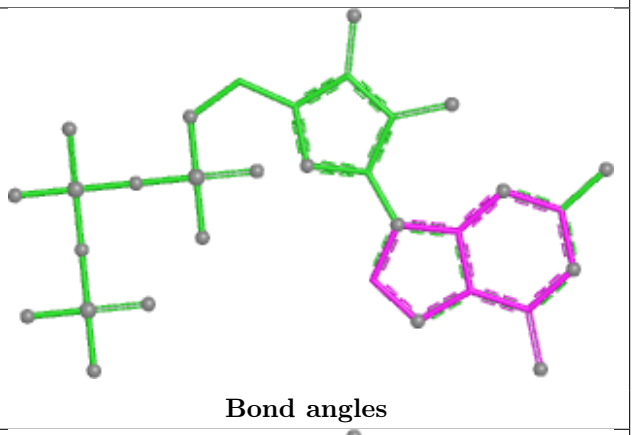

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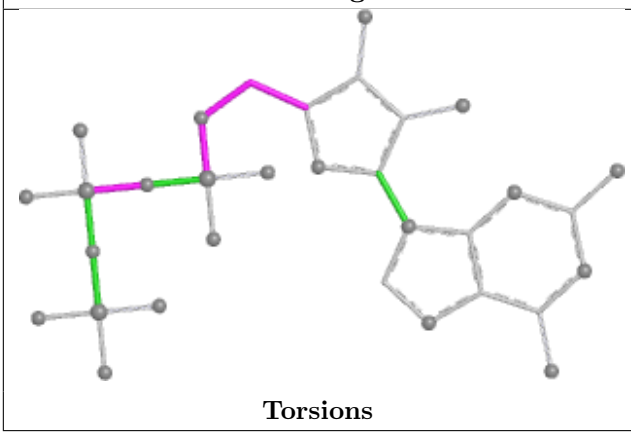

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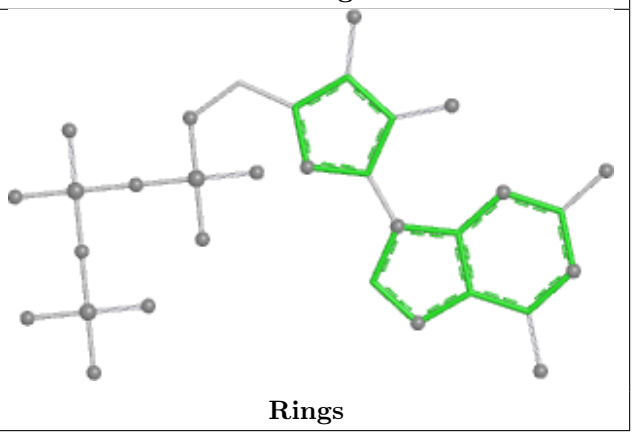
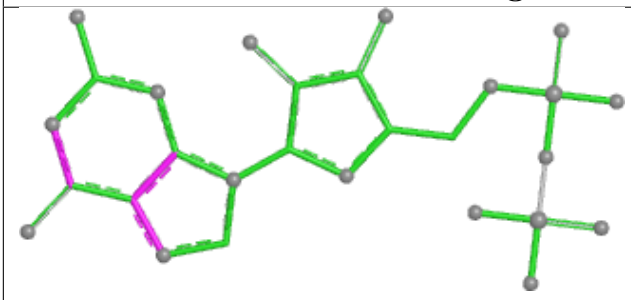


Rings

Ligand GDP KD 502



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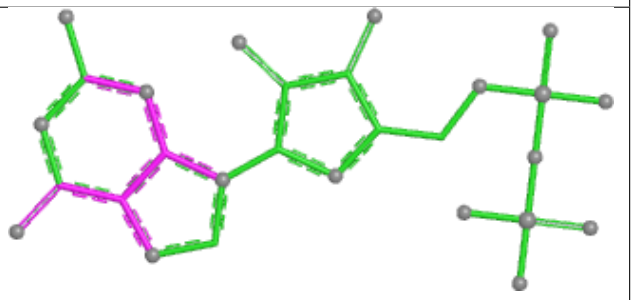

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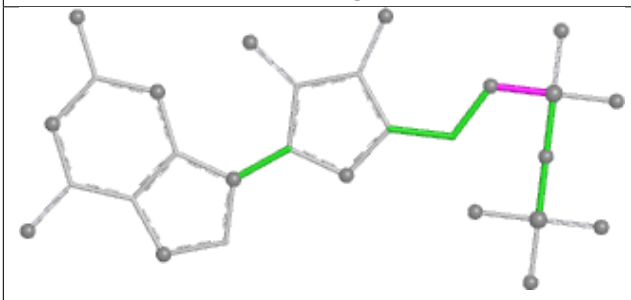

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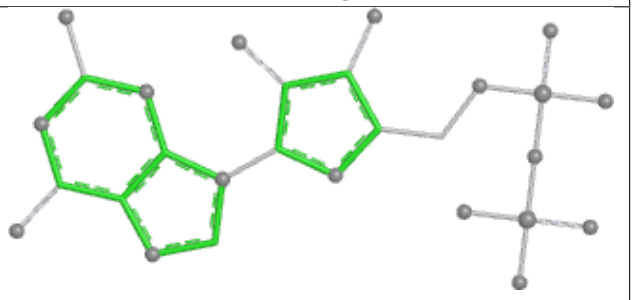
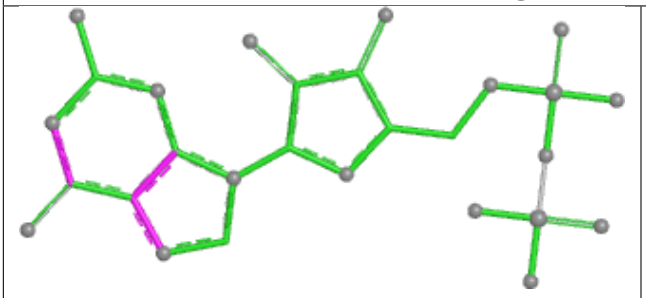


Rings

Ligand GDP FL 502



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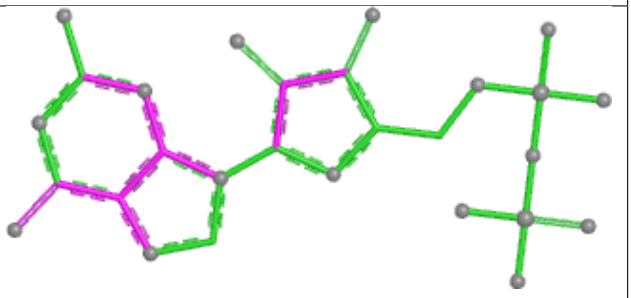

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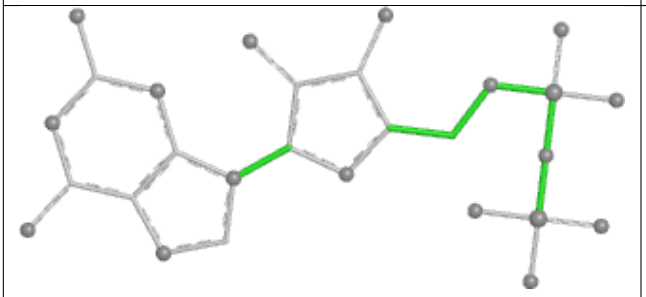

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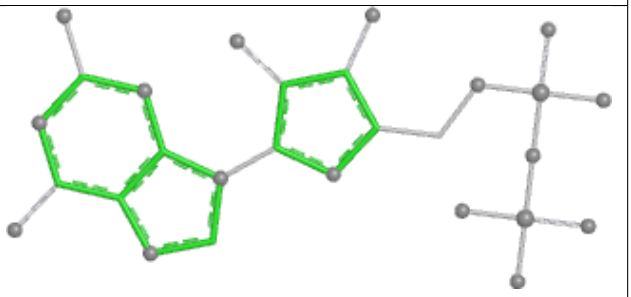
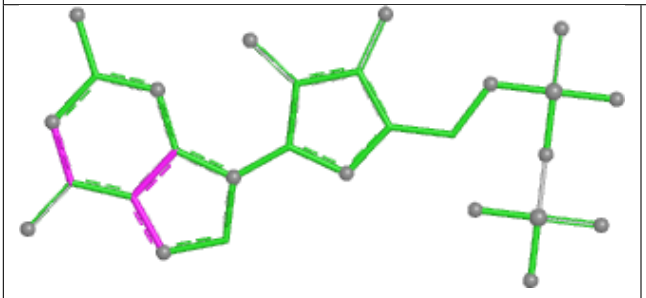


Rings

Ligand GDP EF 502



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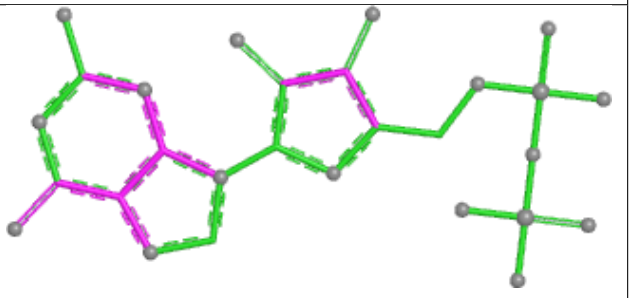

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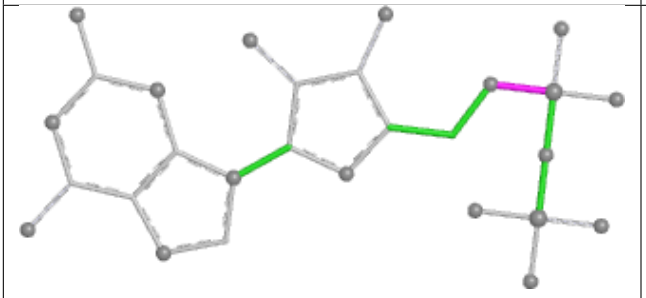

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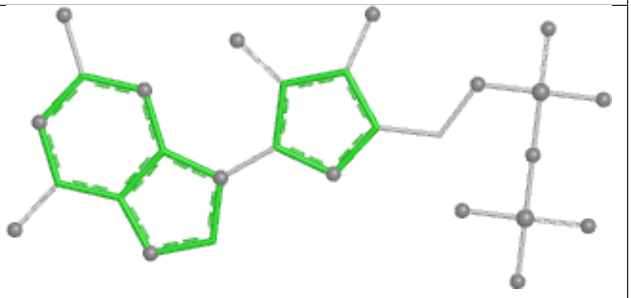
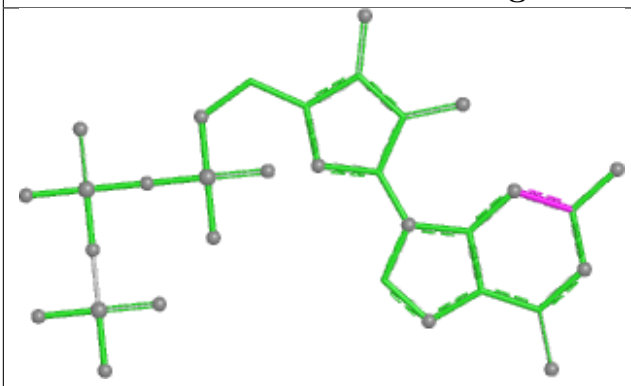


Rings

Ligand GTP GC 501



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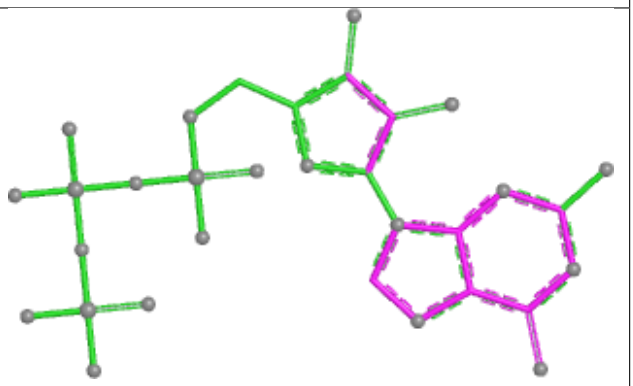

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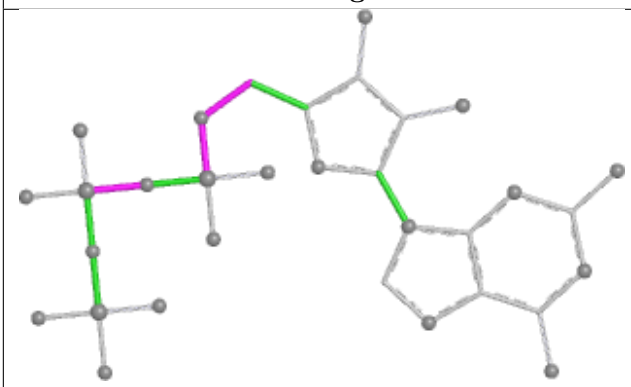

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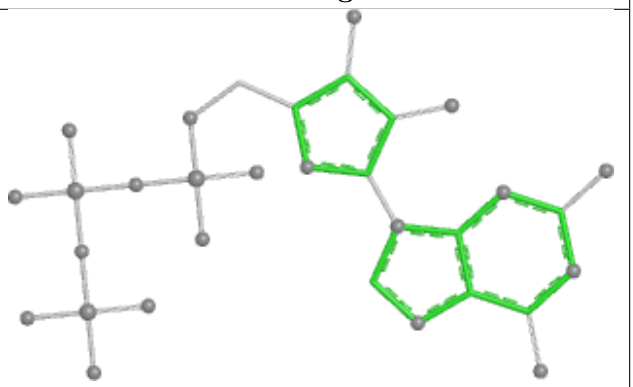
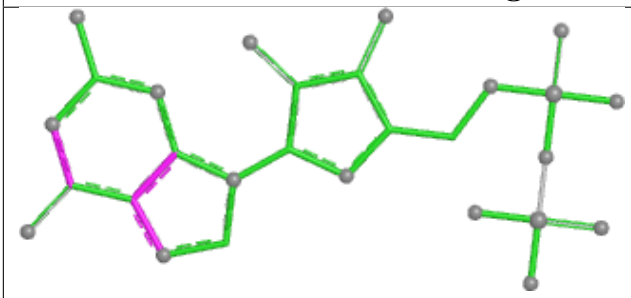


Rings

Ligand GDP MP 502



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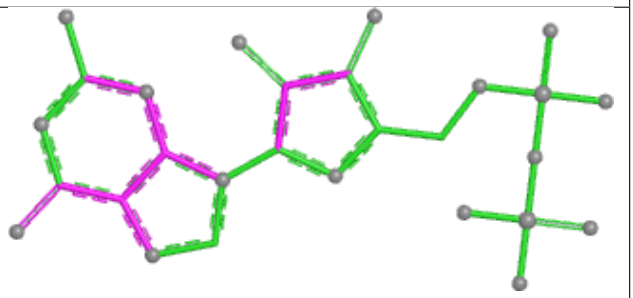

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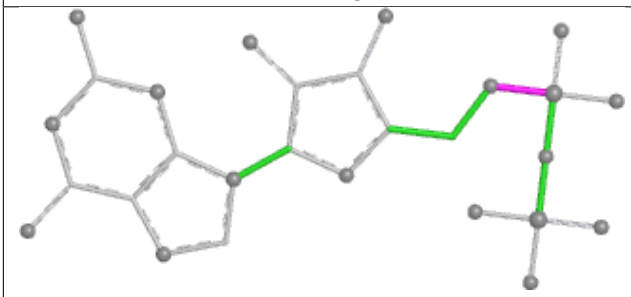
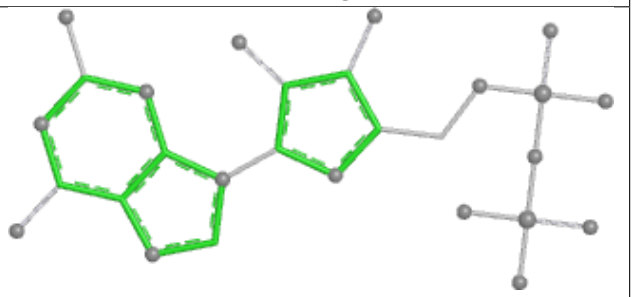
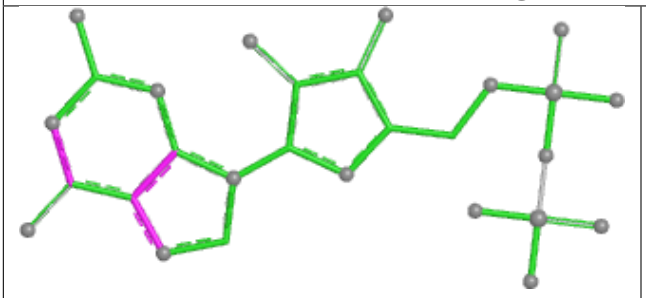


Torsions



Rings

Ligand GDP SF 502



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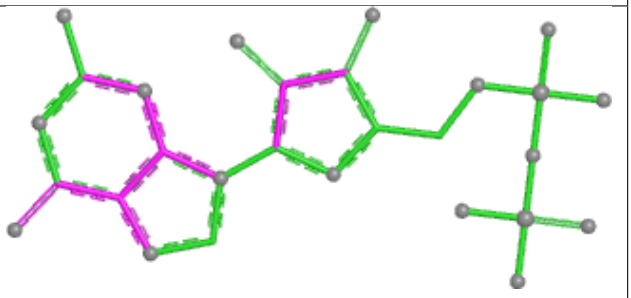

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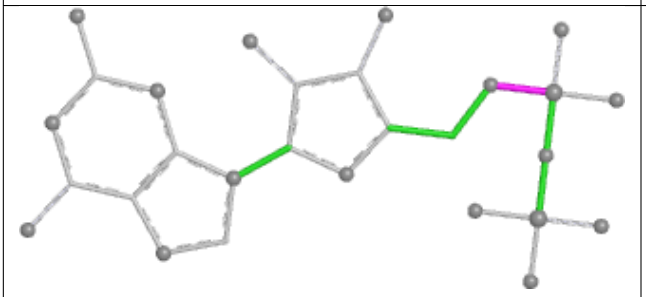

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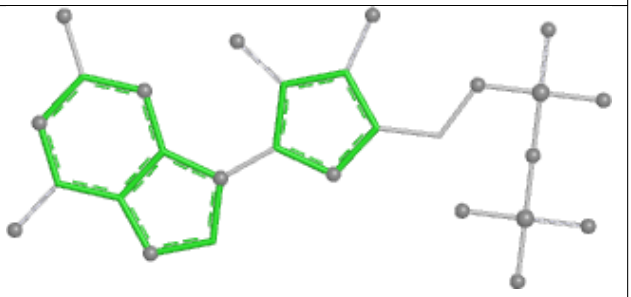
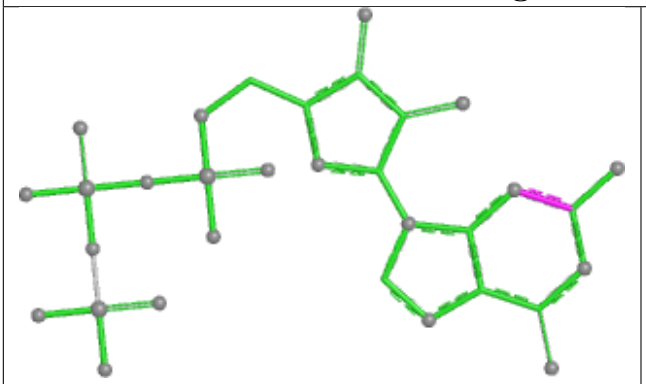


Rings

Ligand GTP FC 501



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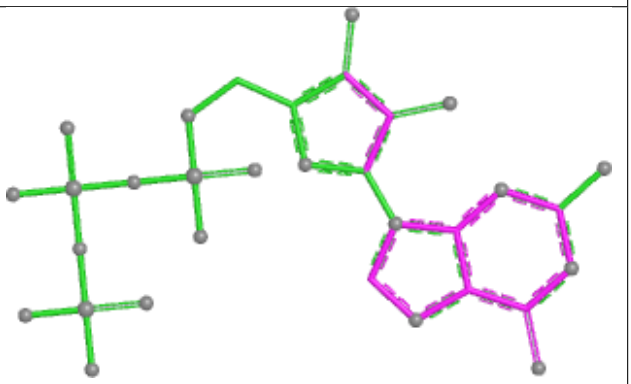

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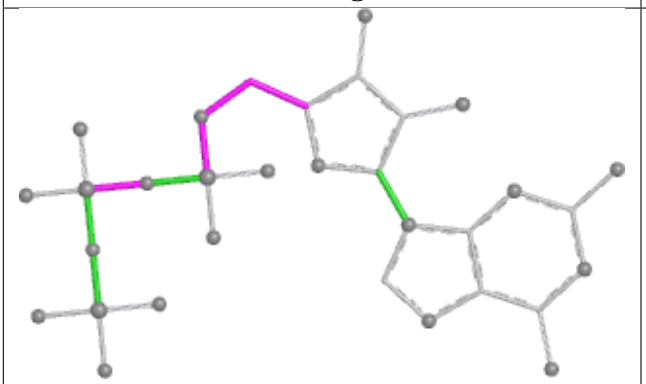

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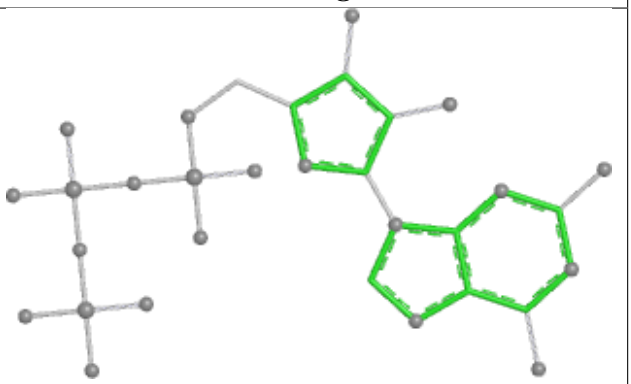
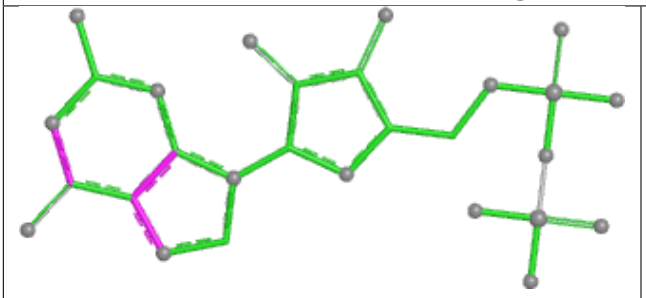


Rings

Ligand GDP QJ 502



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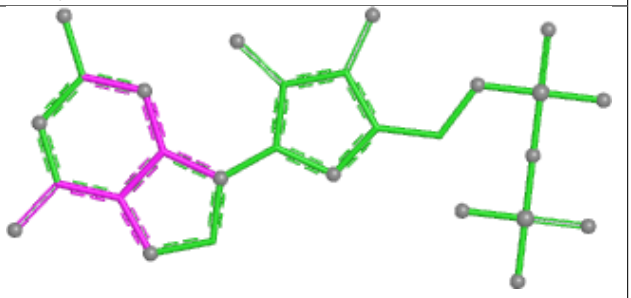

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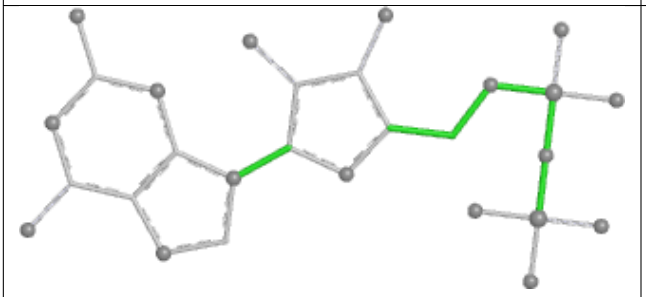

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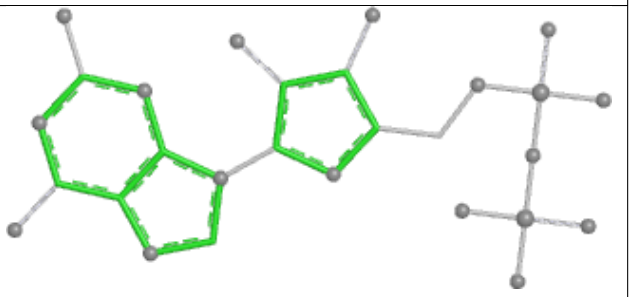
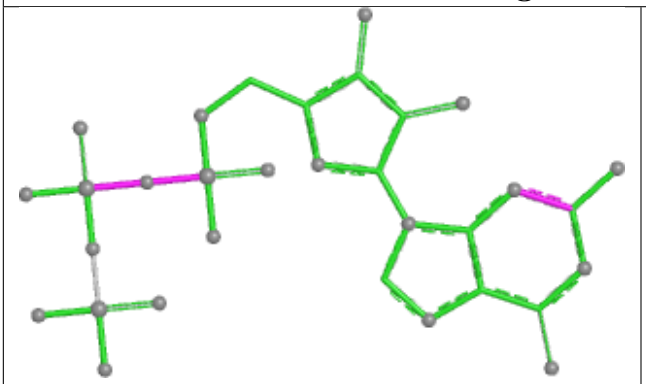


Rings

Ligand GTP RI 501



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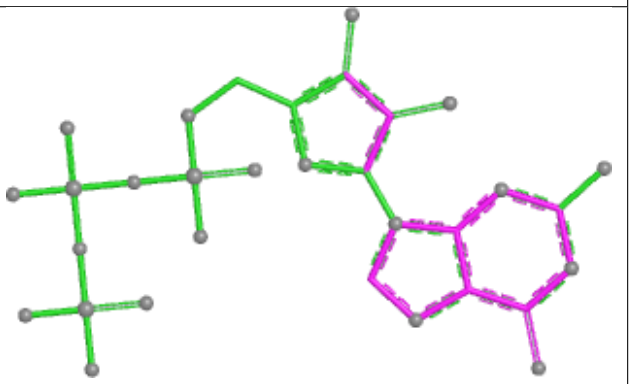

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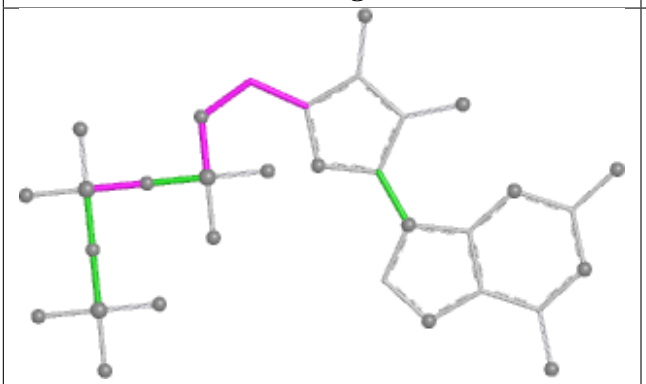

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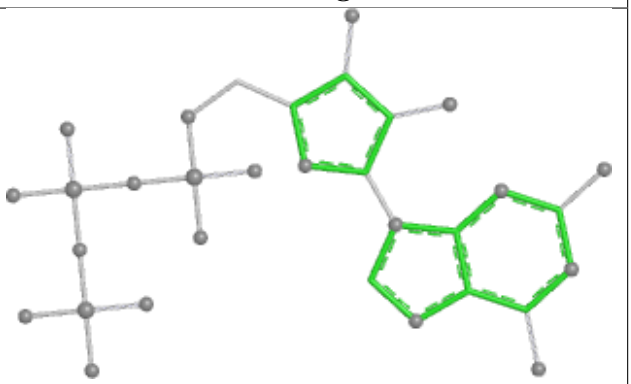
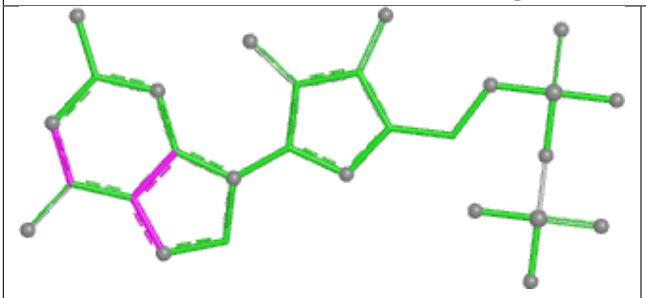


Rings

Ligand GDP OP 502



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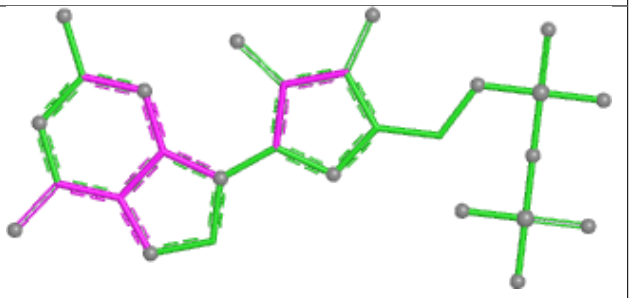

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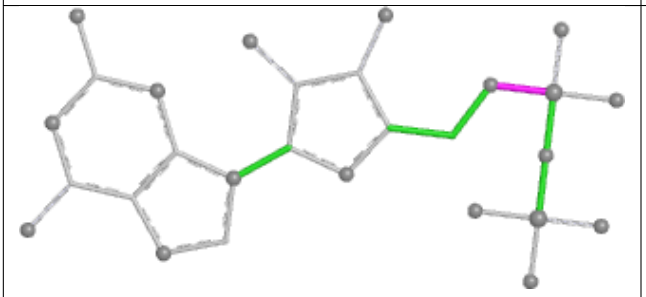

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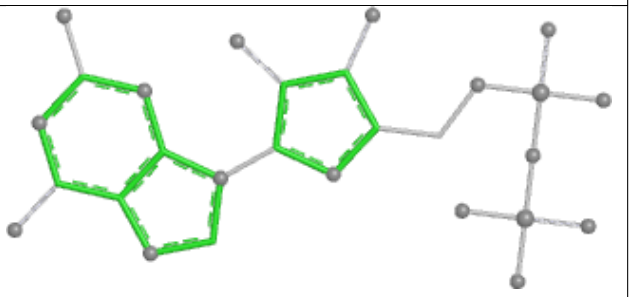
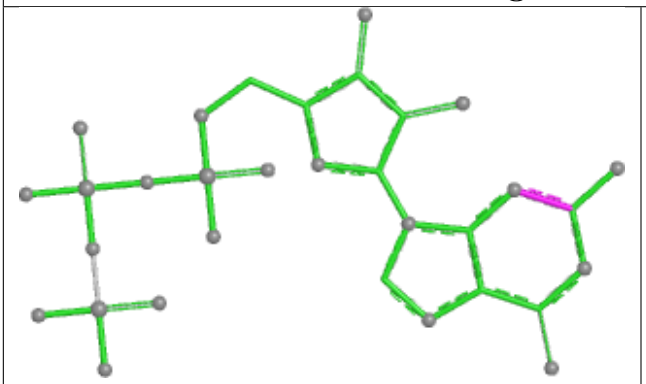


Rings

Ligand GTP DG 501



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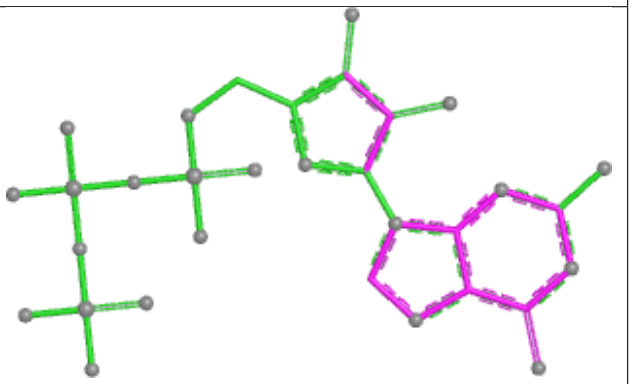

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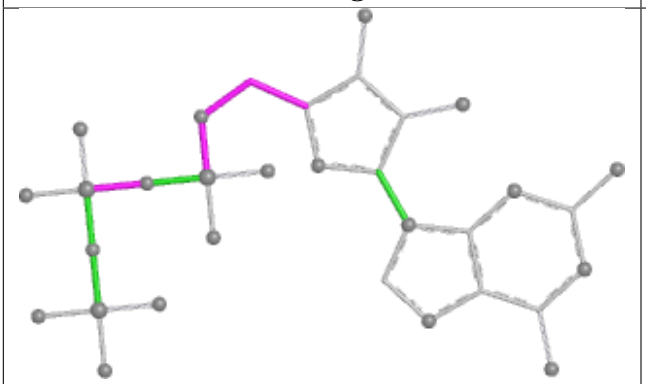

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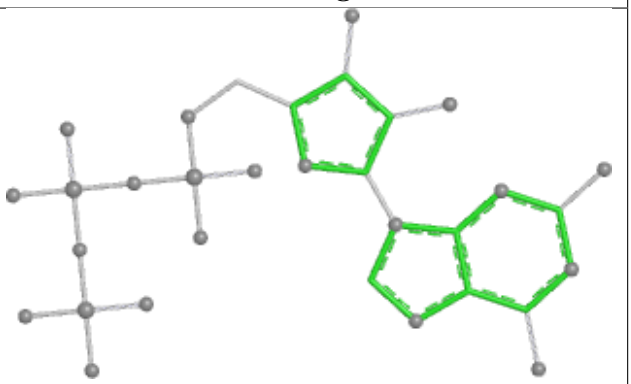

Rings

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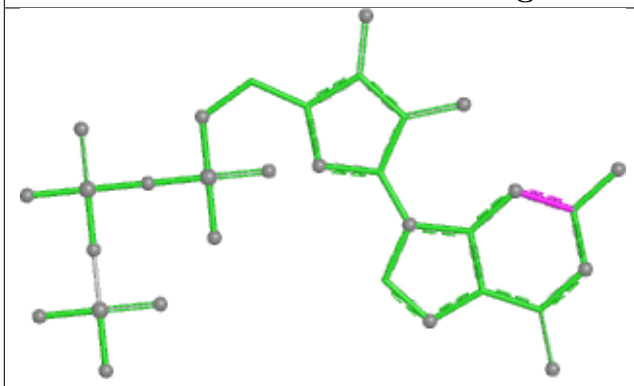

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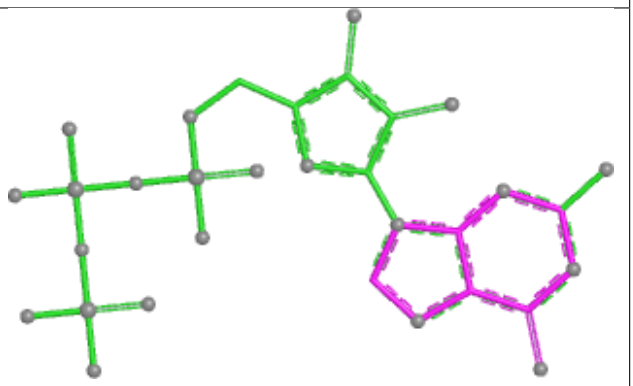

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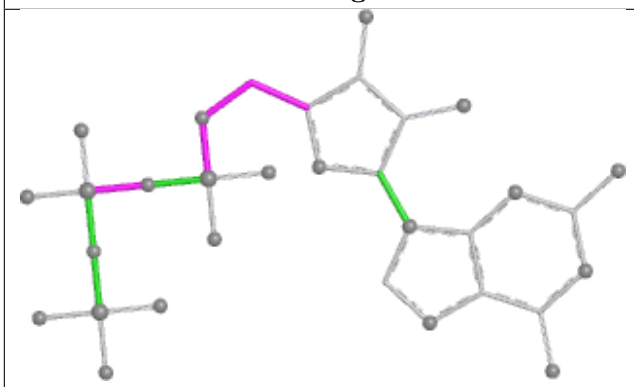

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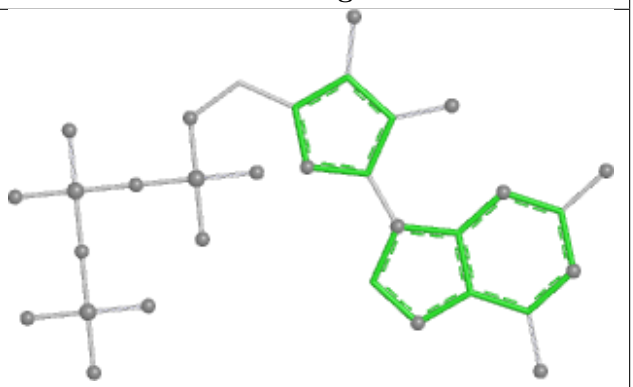
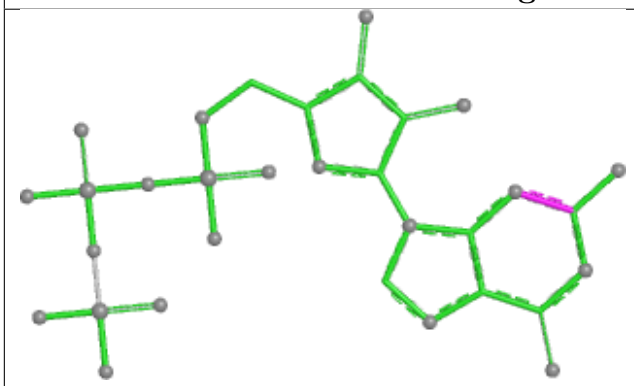


Rings

Ligand GTP EI 501



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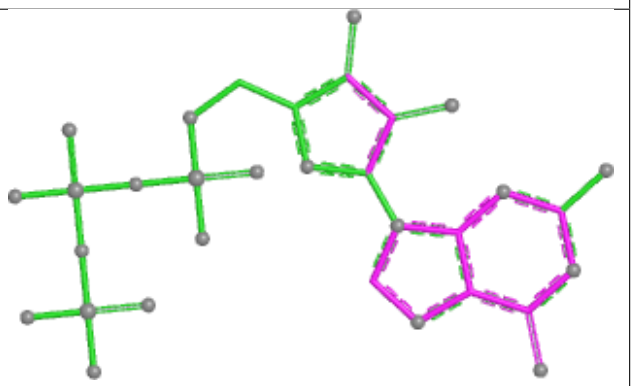

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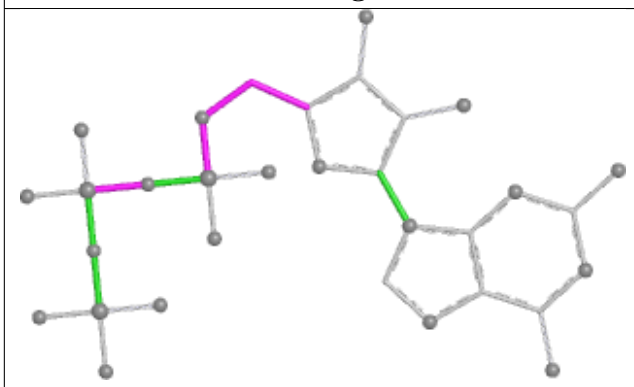

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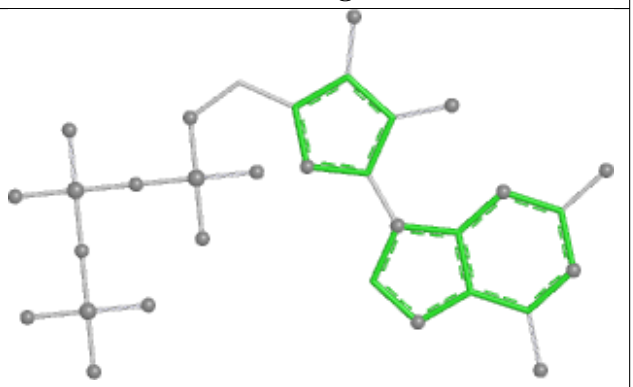

Rings

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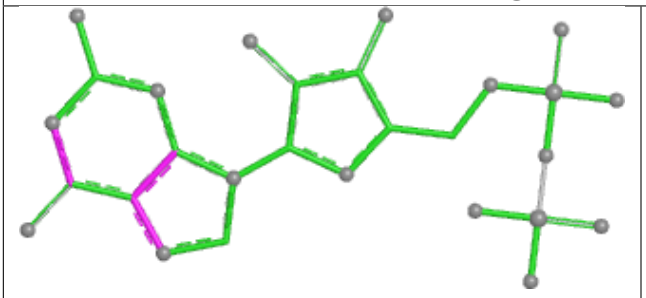

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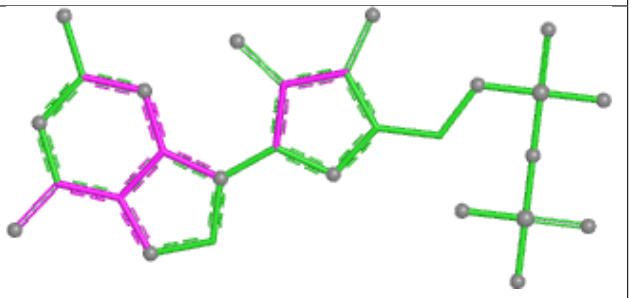

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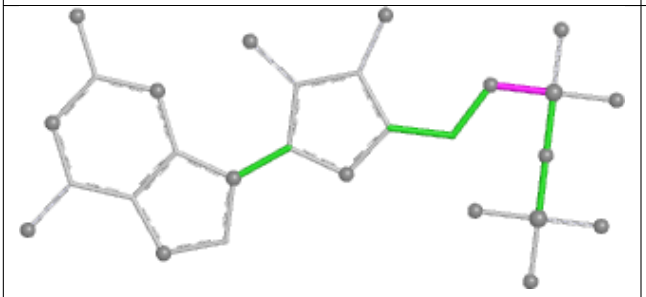

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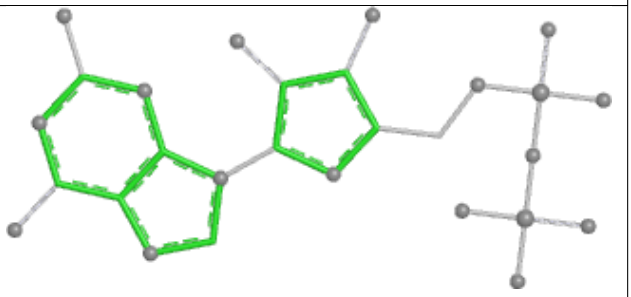

Rings

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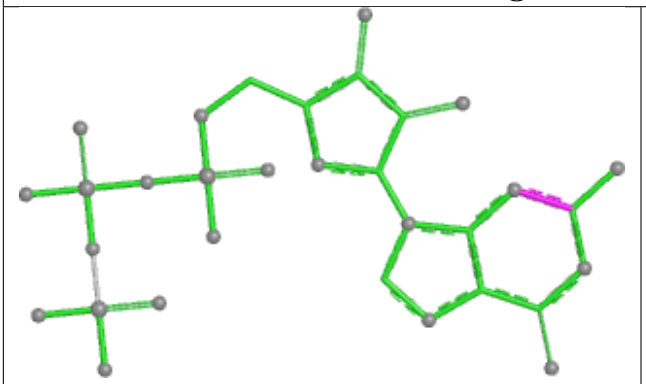

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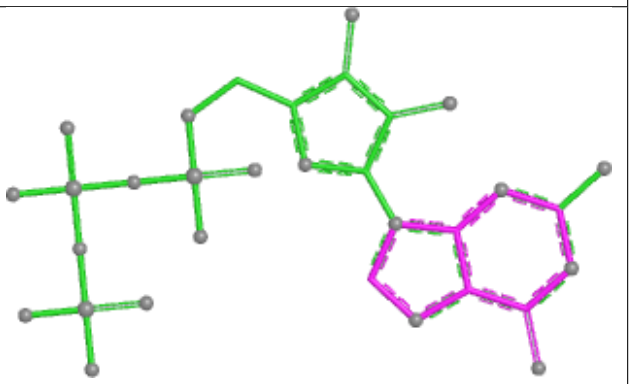

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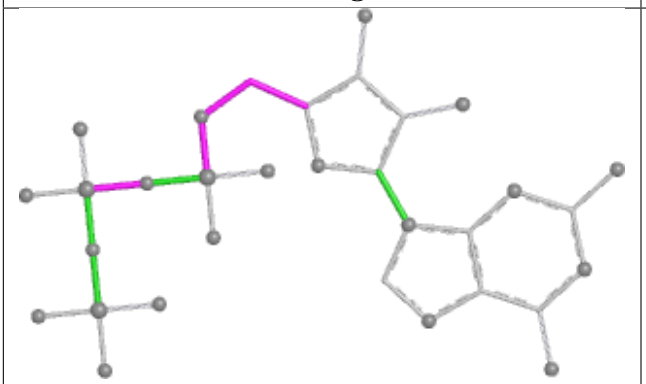

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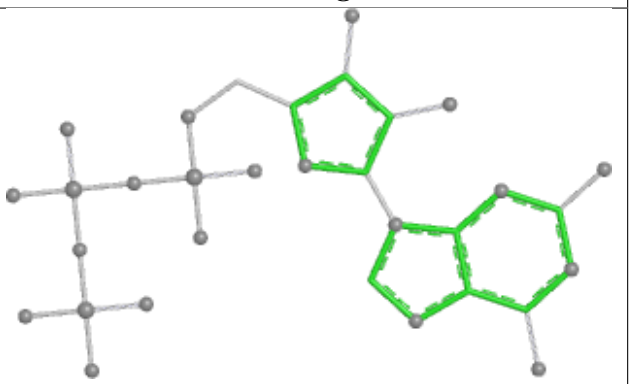
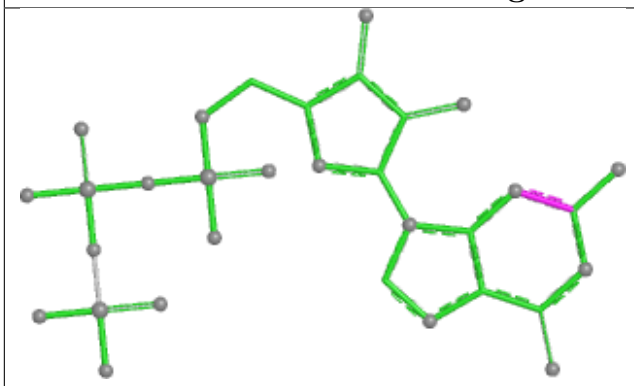


Rings

Ligand GTP ME 501



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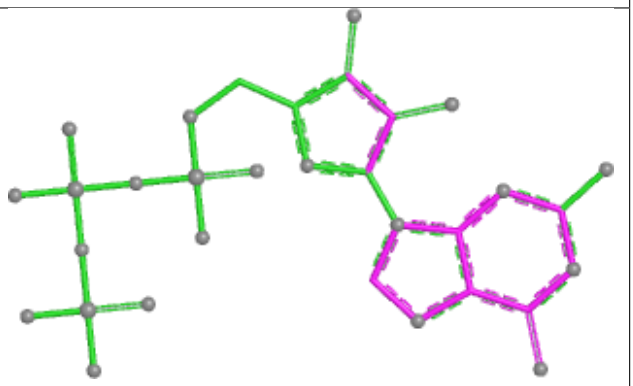

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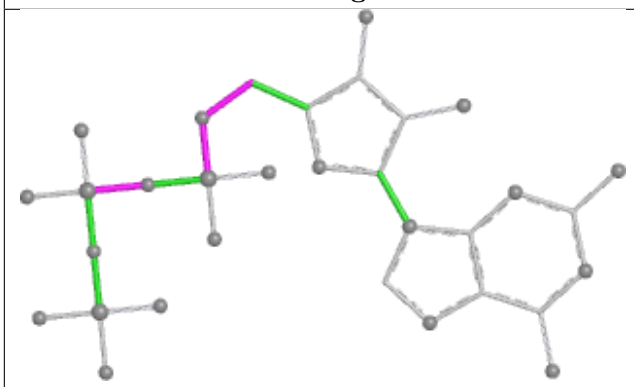

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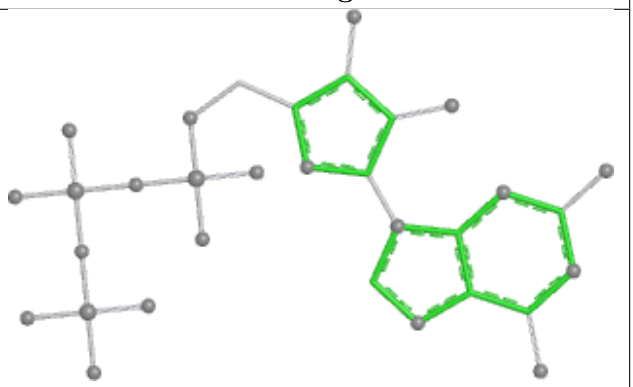
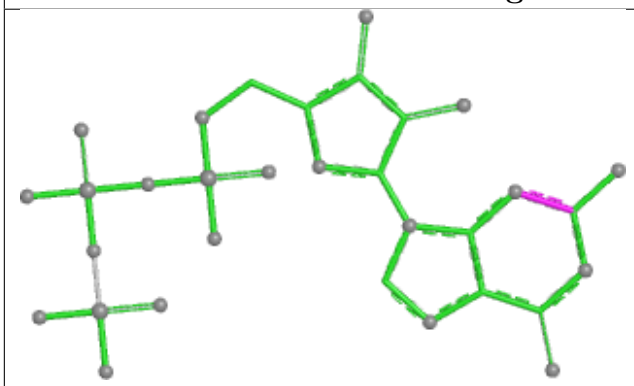


Rings

Ligand GTP DM 501



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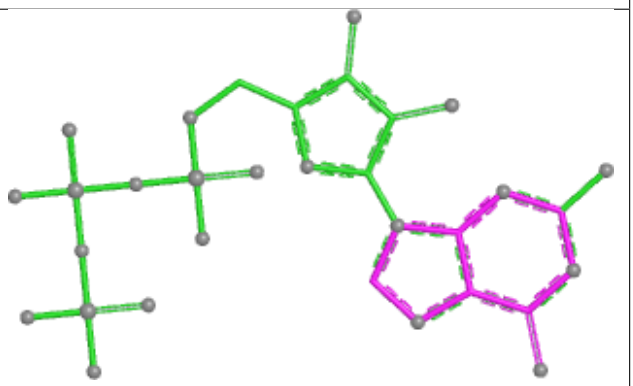

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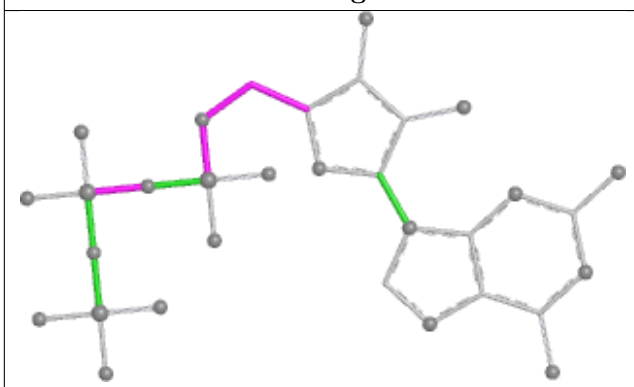

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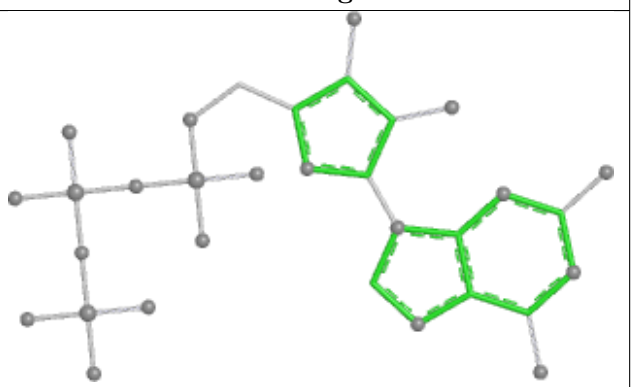
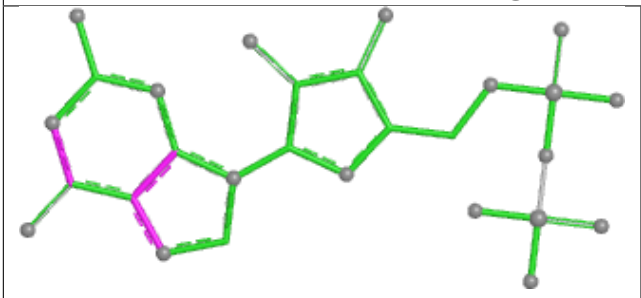


Rings

Ligand GDP DD 502



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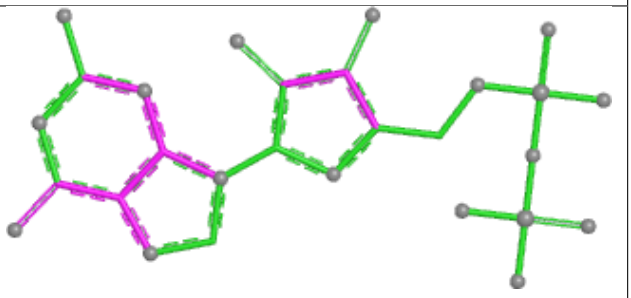

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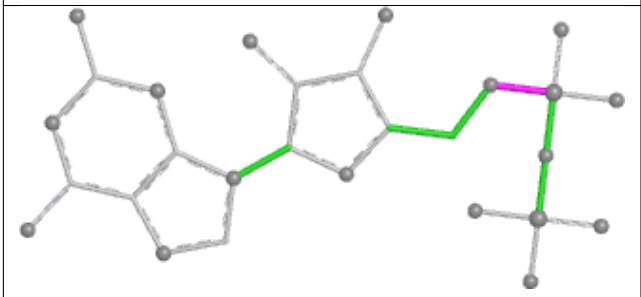

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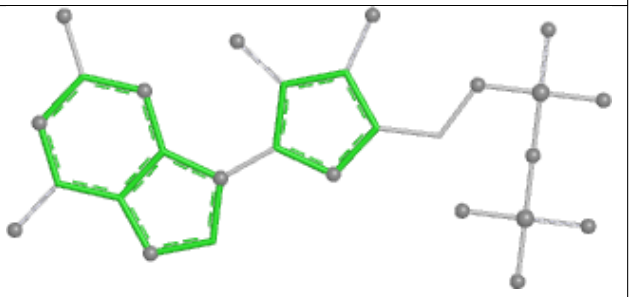
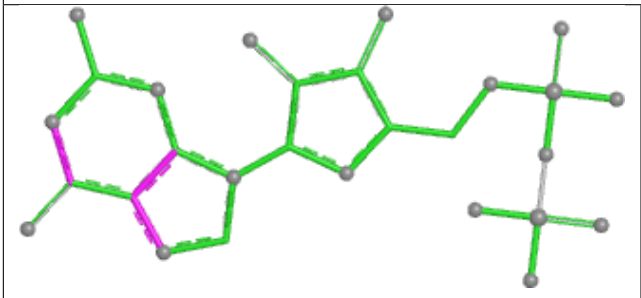


Rings

Ligand GDP QH 502



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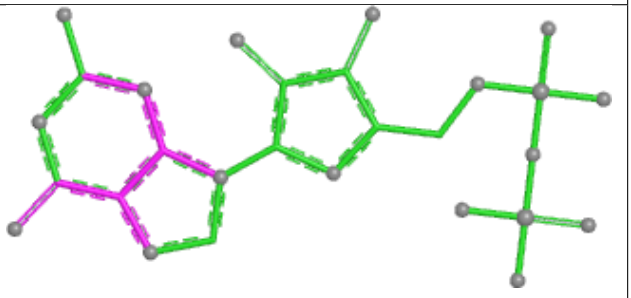

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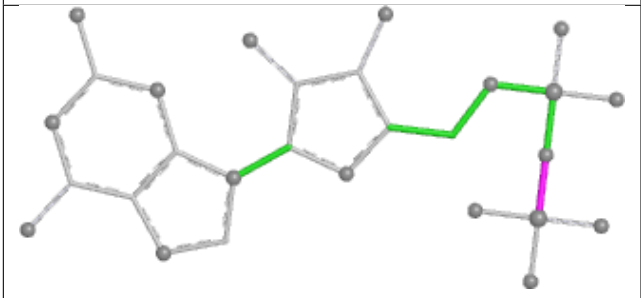
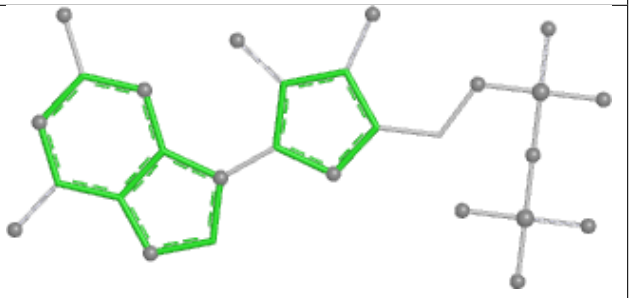
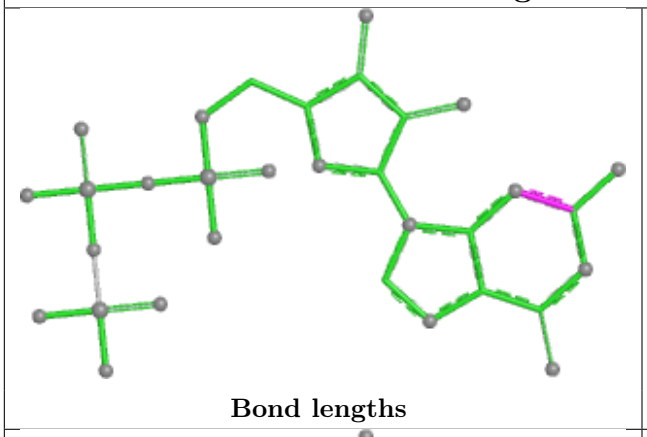


Torsions



Rings

Ligand GTP FA 501



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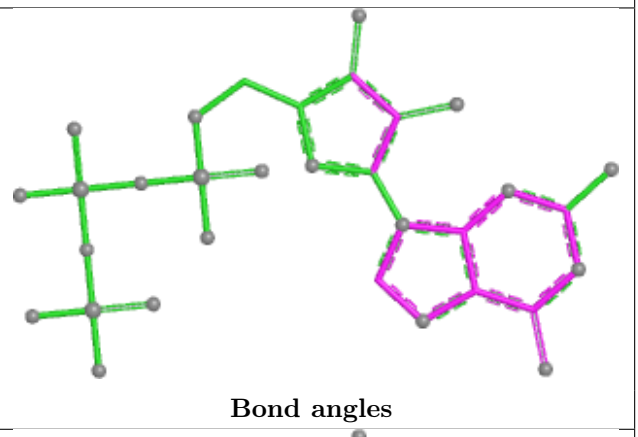

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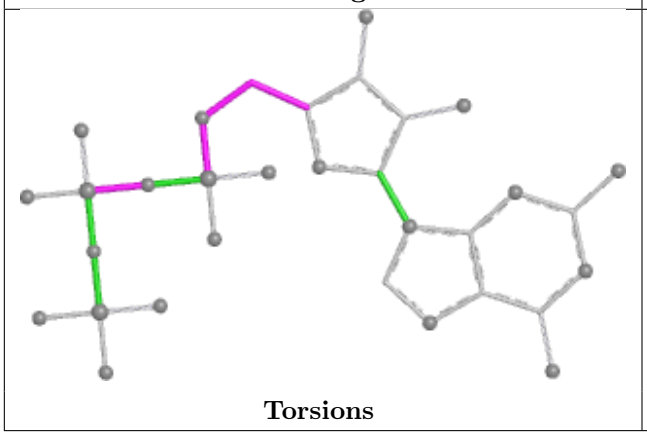

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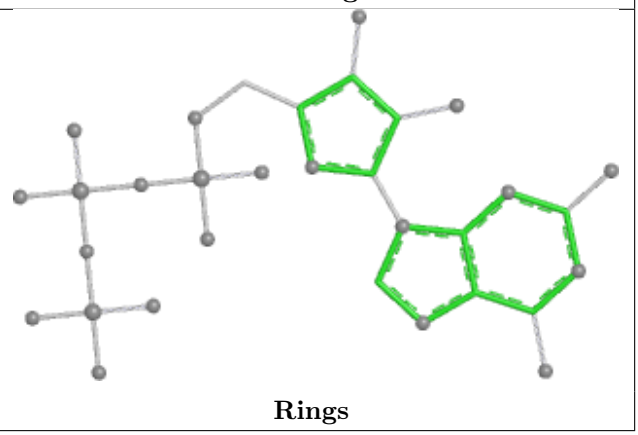
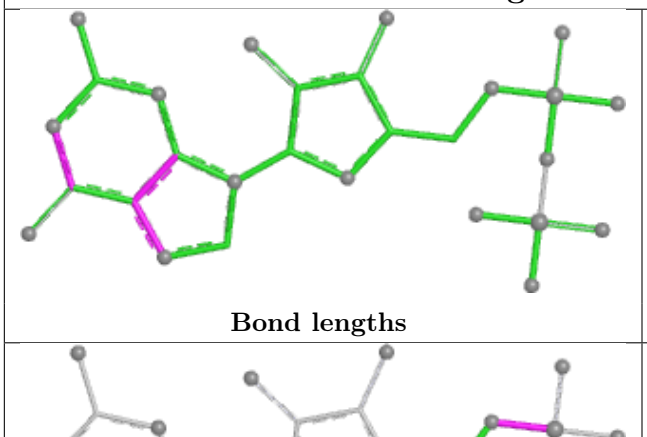


Rings

Ligand GDP KH 502



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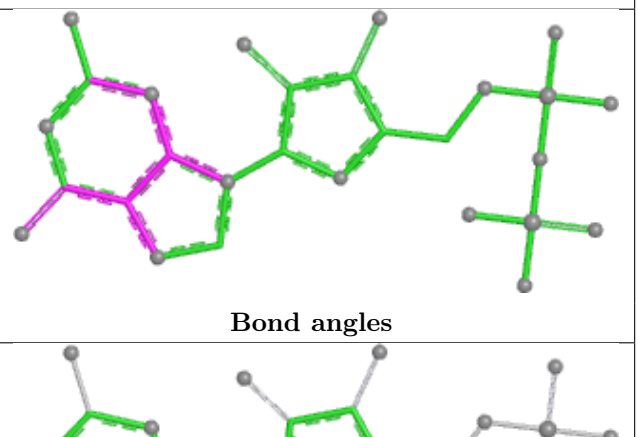

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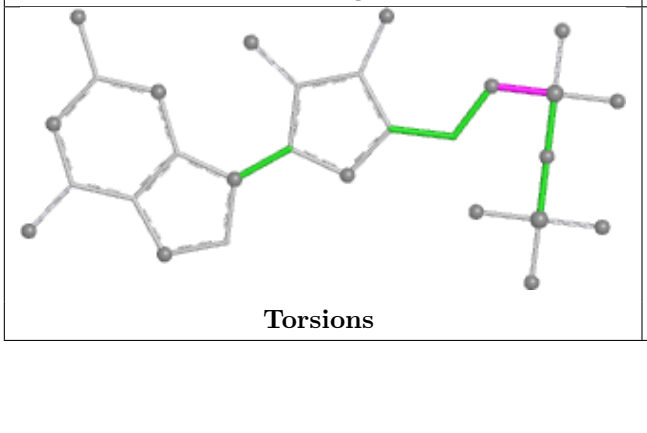

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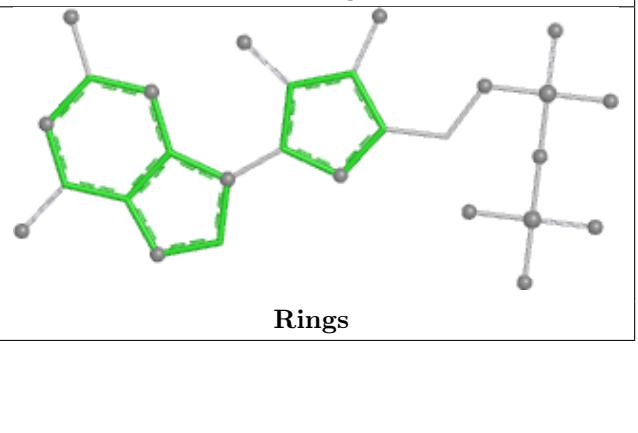
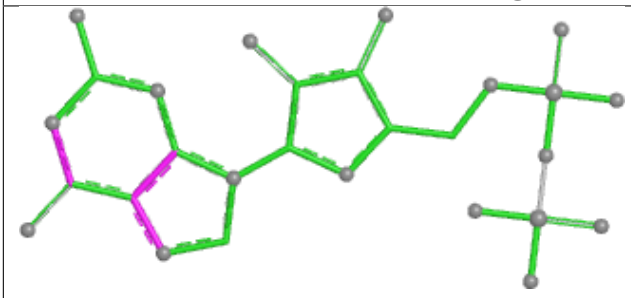


Rings

Ligand GDP BB 502



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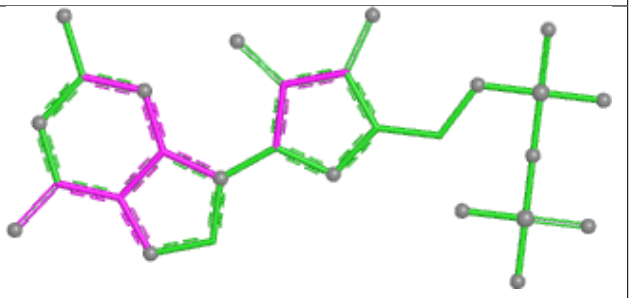

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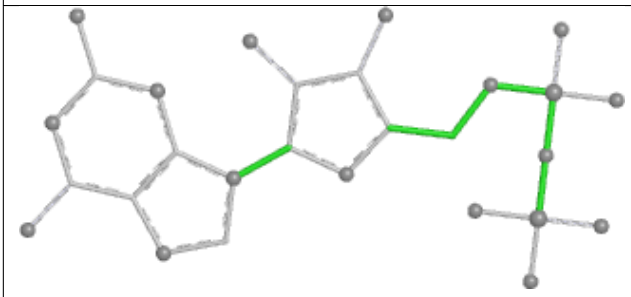

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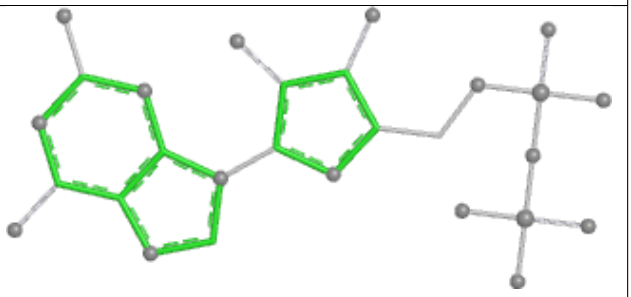
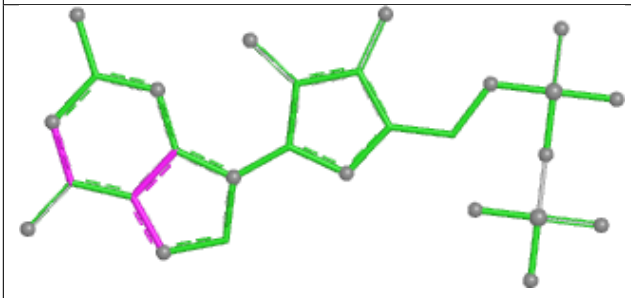


Rings

Ligand GDP AH 502



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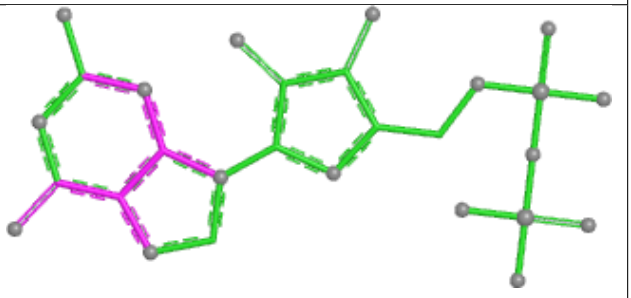

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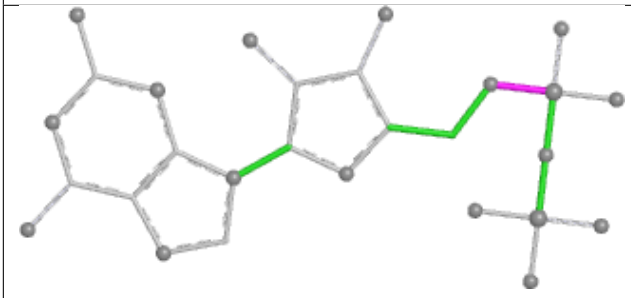

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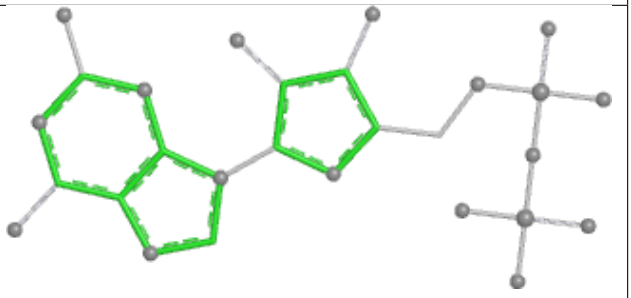

Rings

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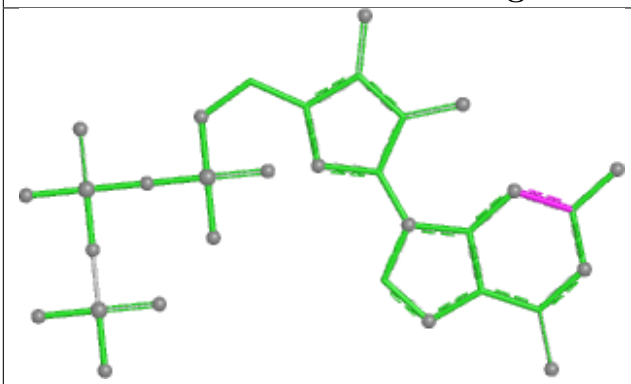

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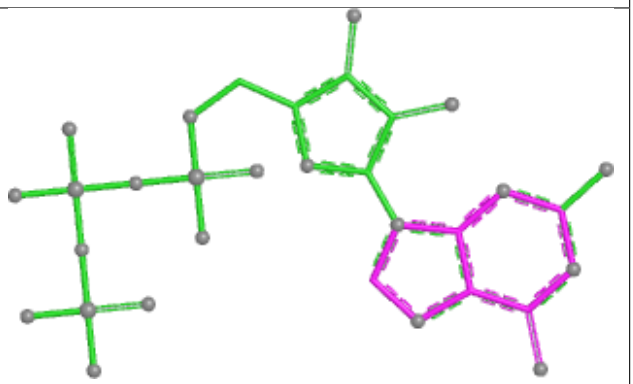

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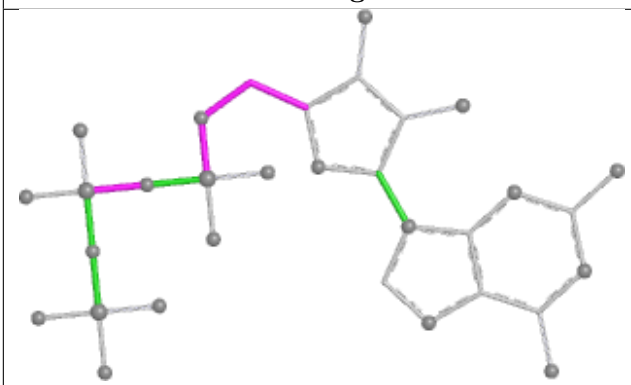

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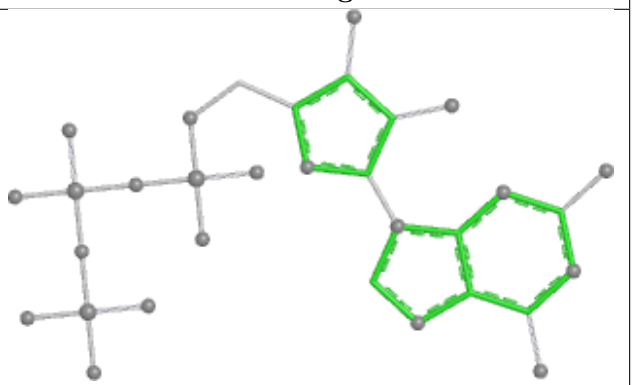
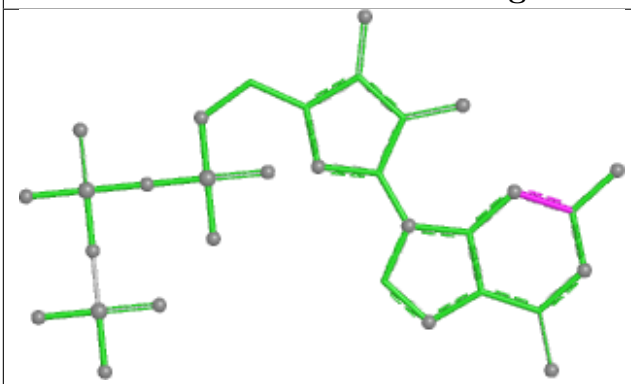


Rings

Ligand GTP BG 501



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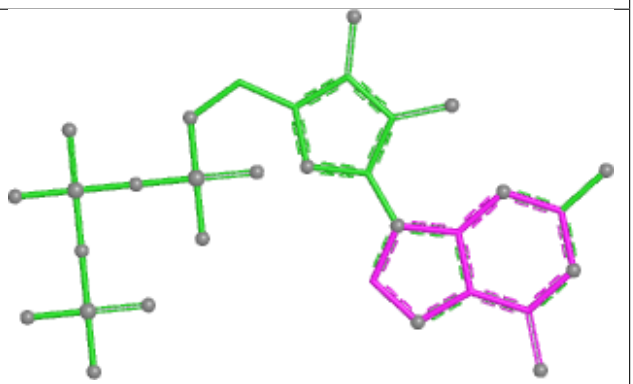

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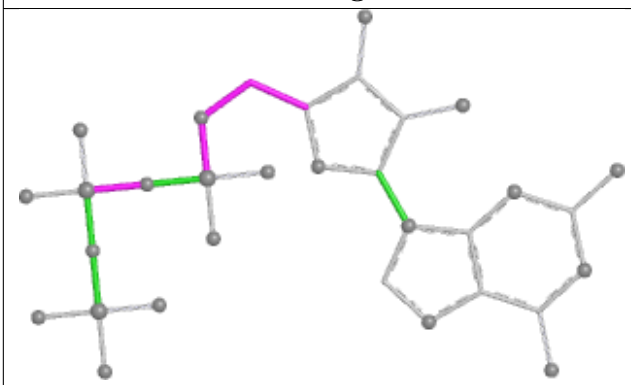

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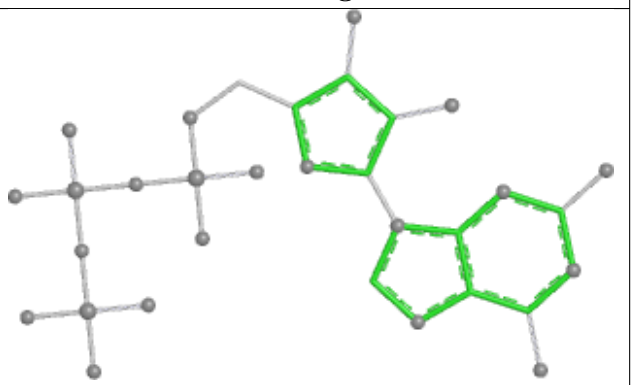
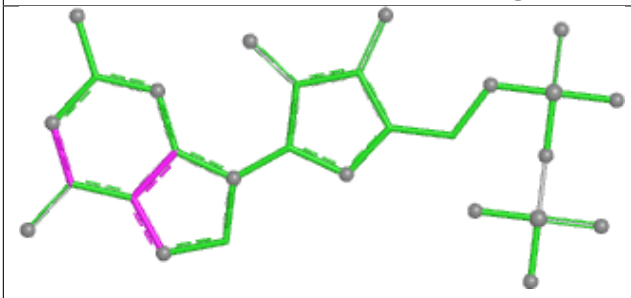


Rings

Ligand GDP BP 502



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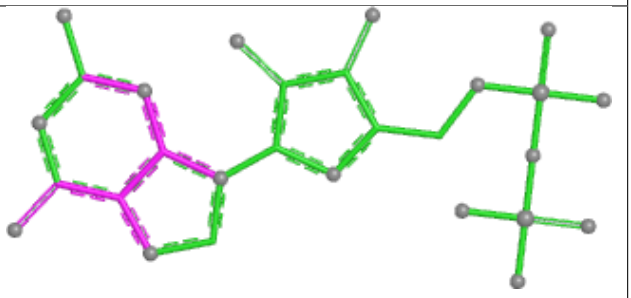

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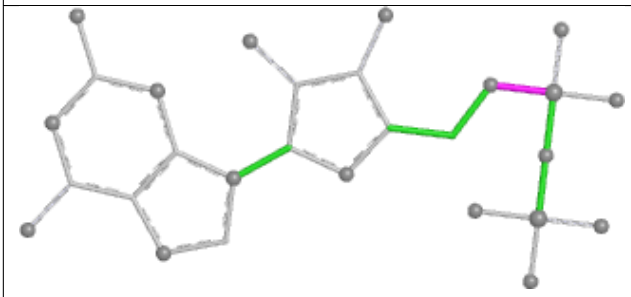

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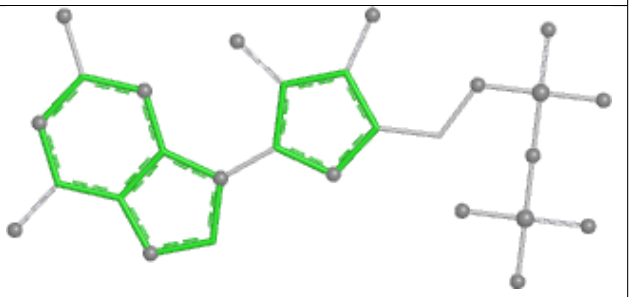
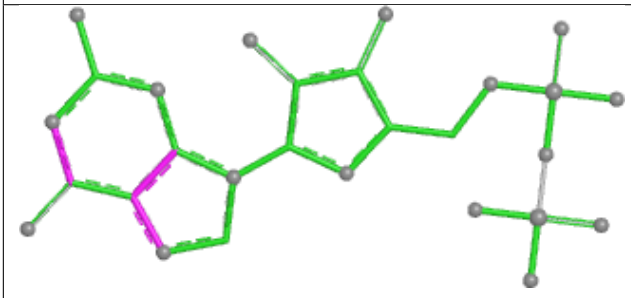


Rings

Ligand GDP FJ 502



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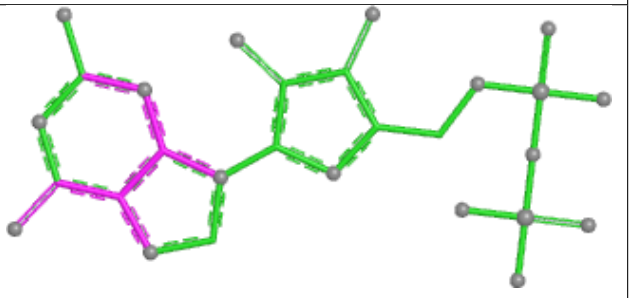

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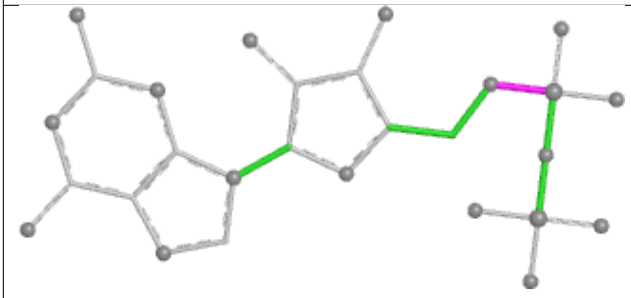

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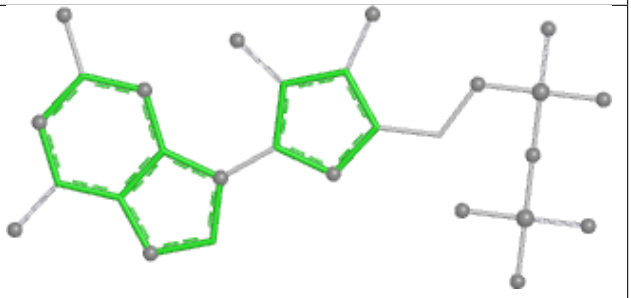

Rings

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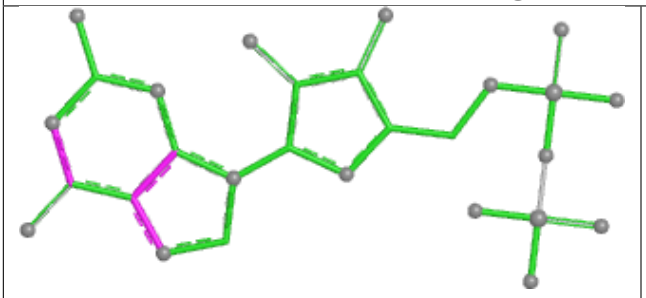

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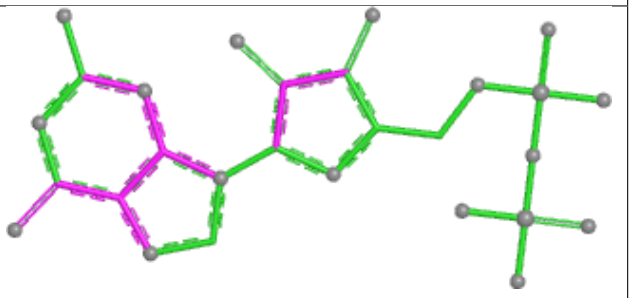

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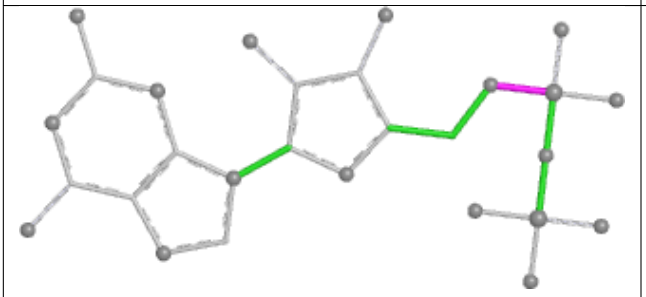

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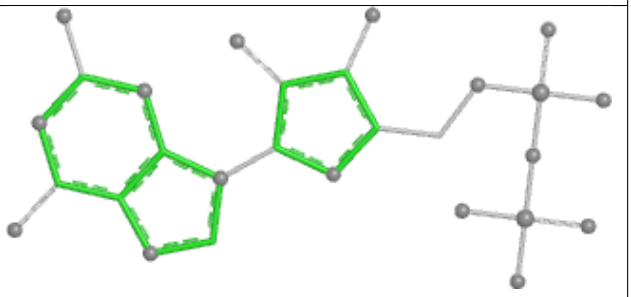

Rings

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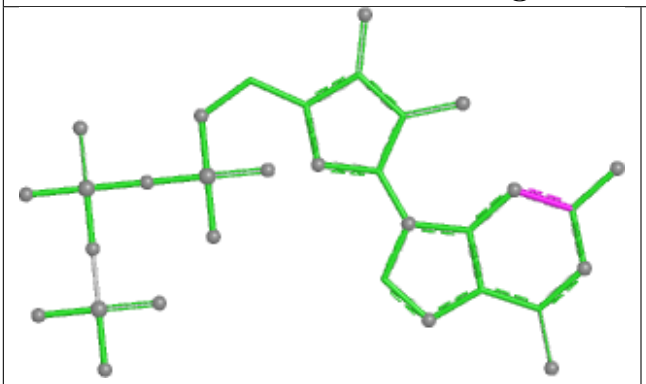

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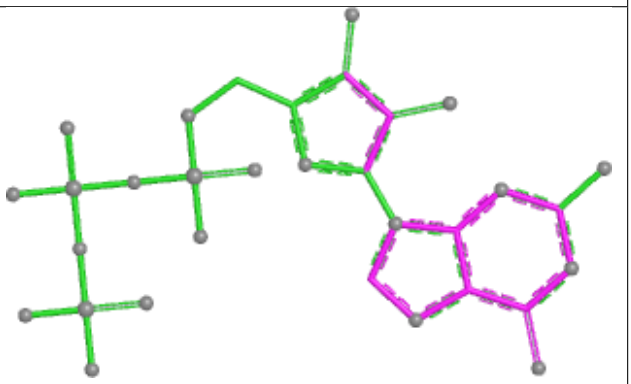

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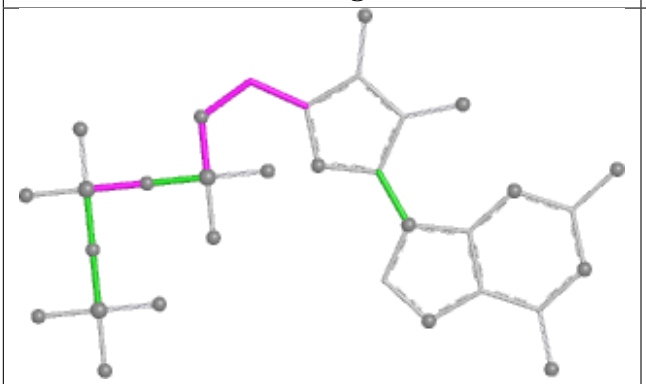

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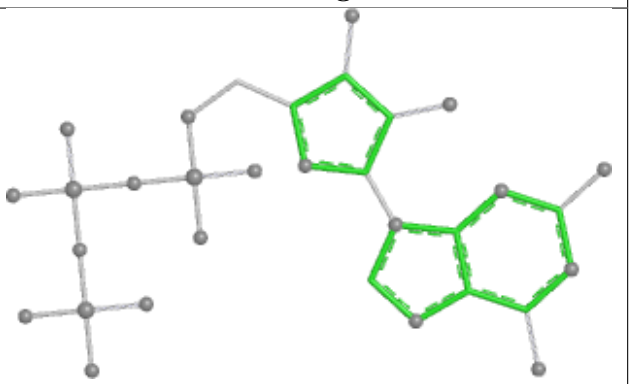
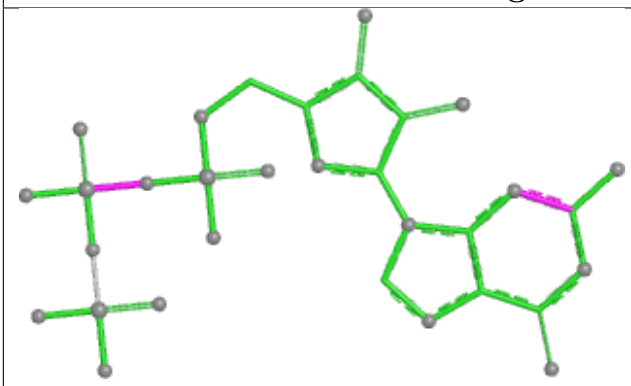


Rings

Ligand GTP QG 501



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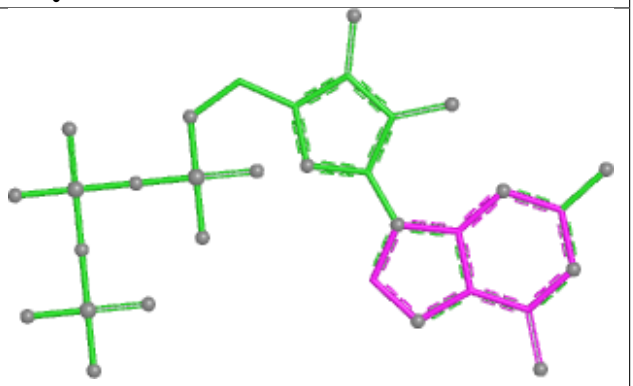

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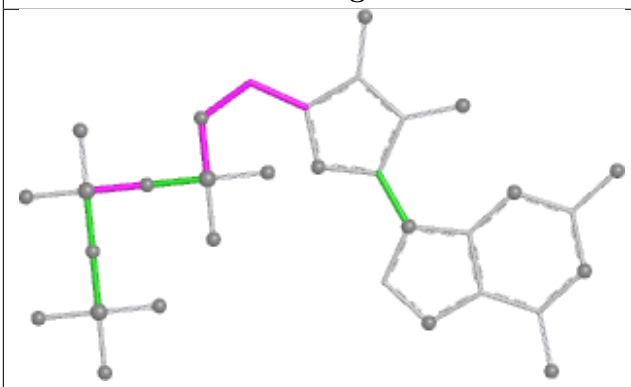

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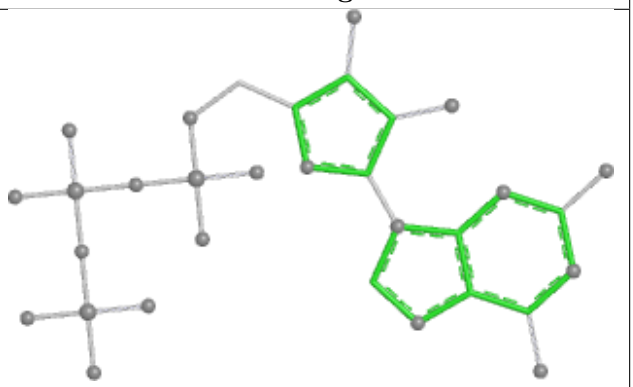
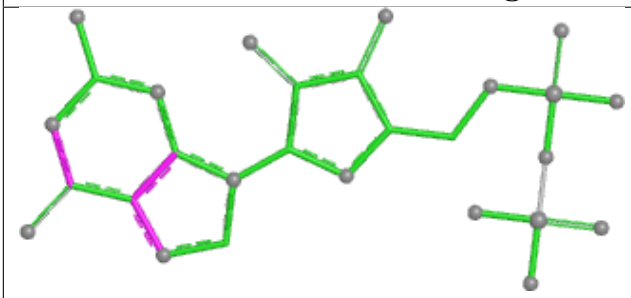


Rings

Ligand GDP MN 502



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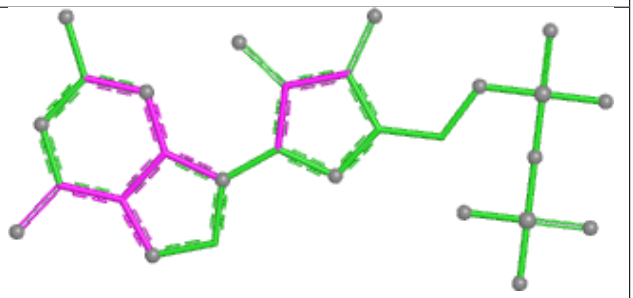

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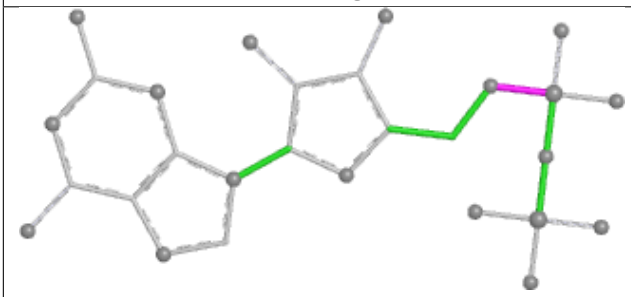

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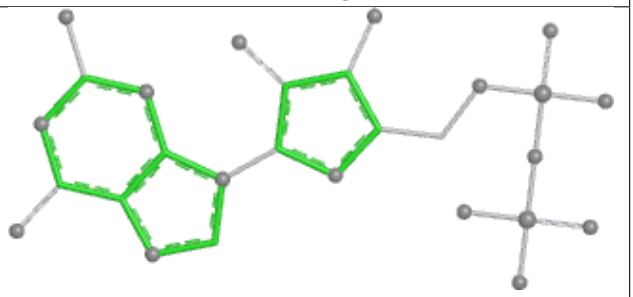
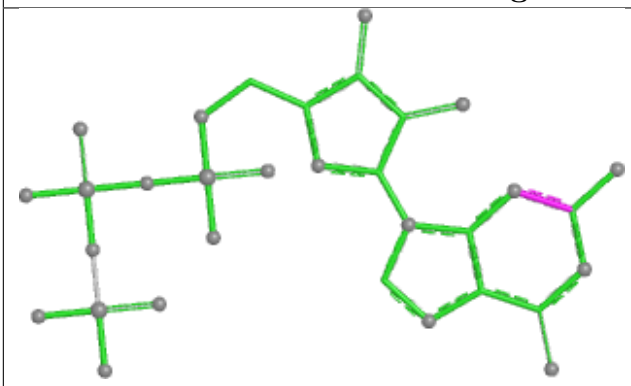


Rings

Ligand GTP EA 501



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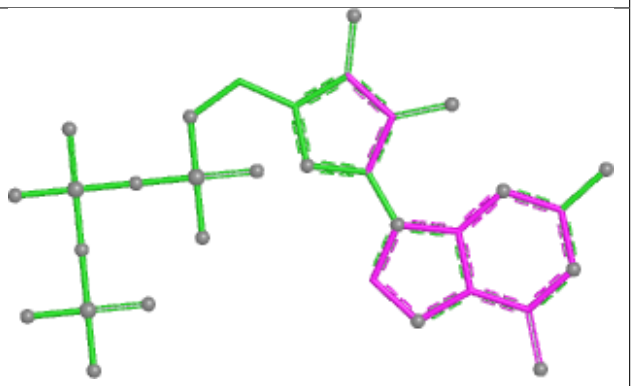

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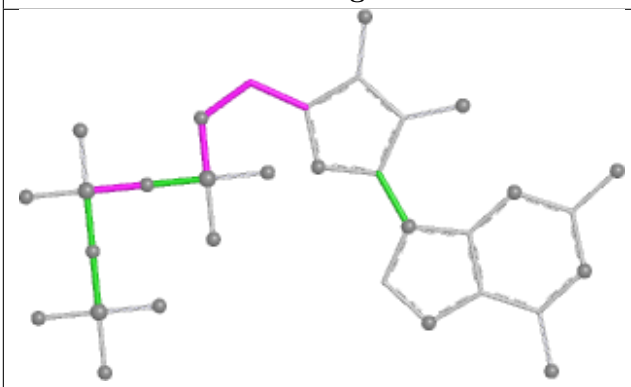

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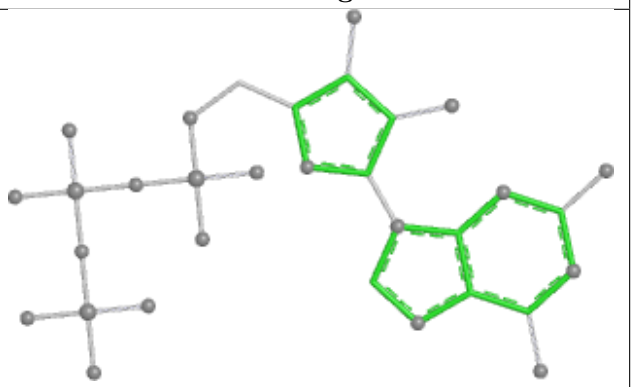
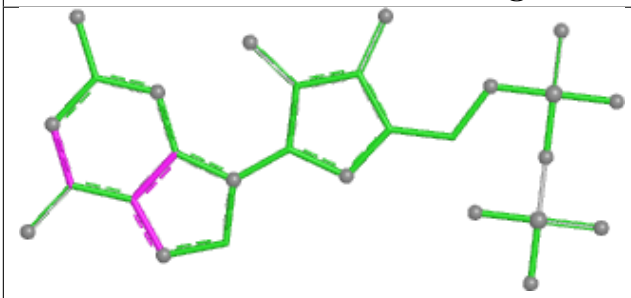


Rings

Ligand GDP BD 502



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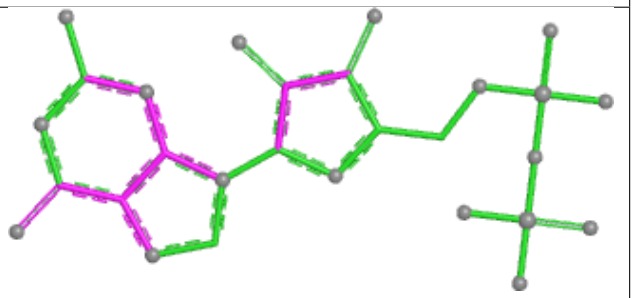

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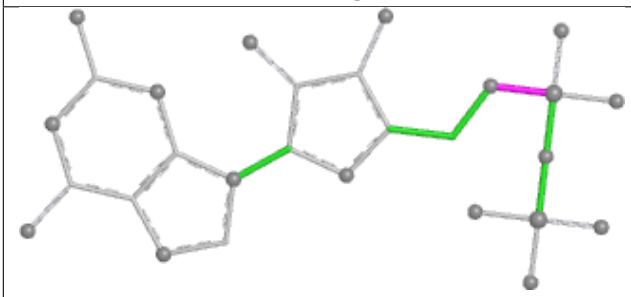
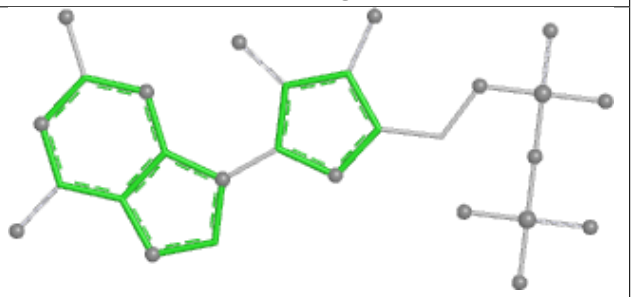
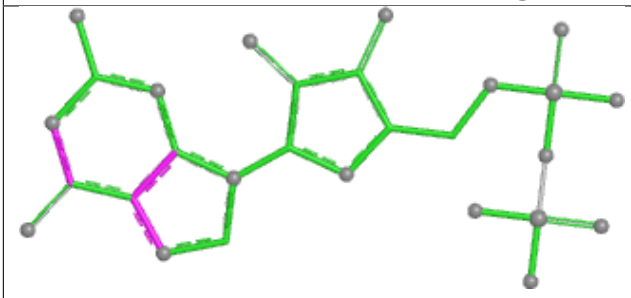


Torsions



Rings

Ligand GDP IN 502



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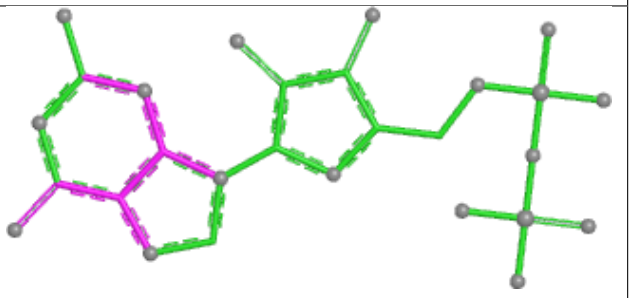

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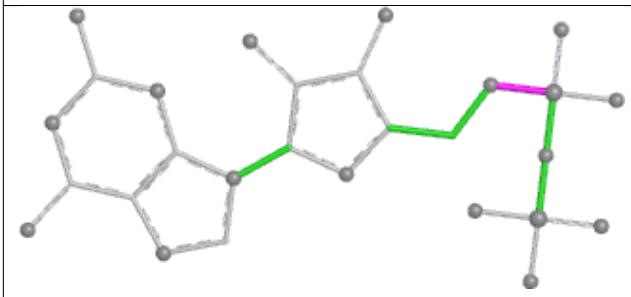

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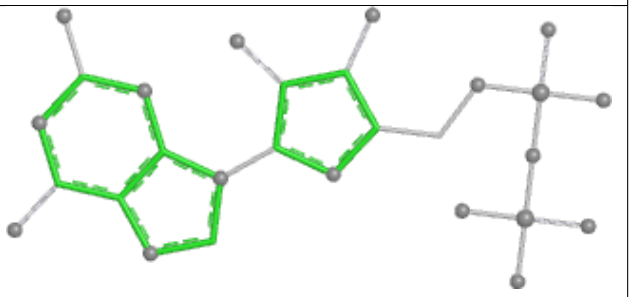
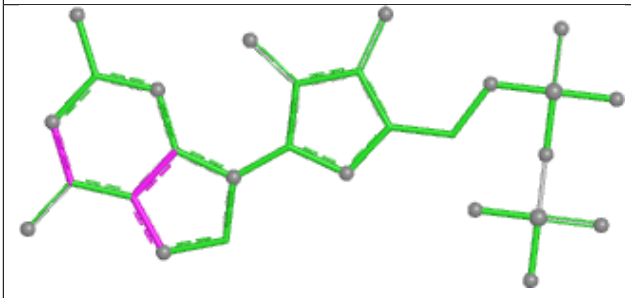


Rings

Ligand GDP VN 502



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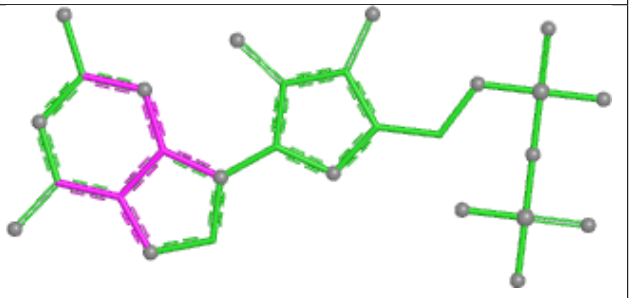

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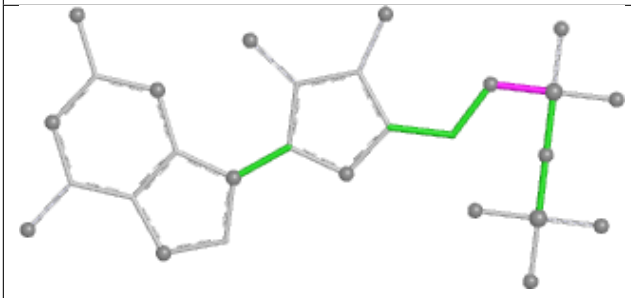

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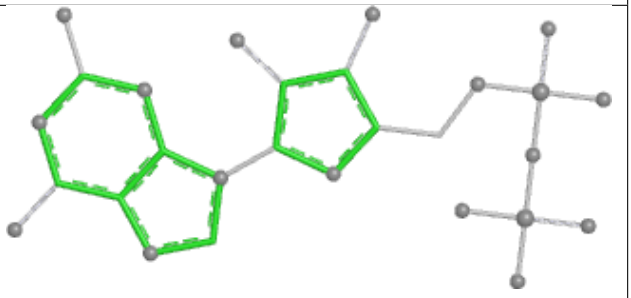
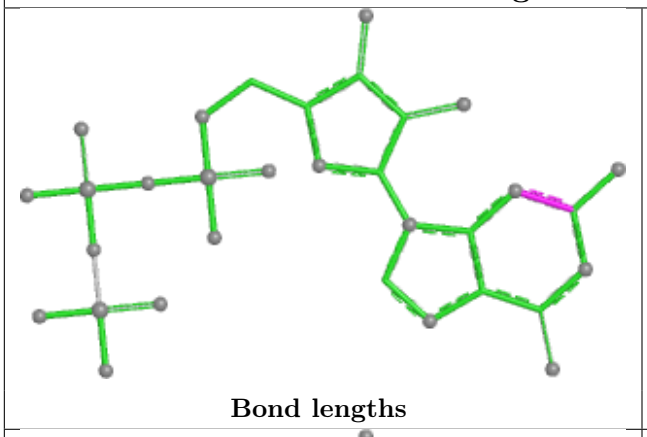


Rings

Ligand GTP FO 501



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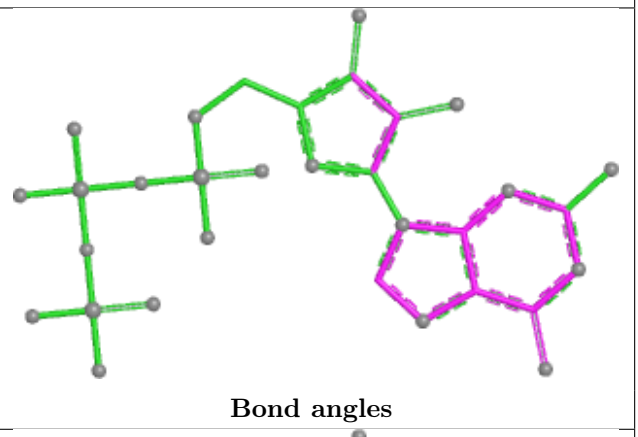

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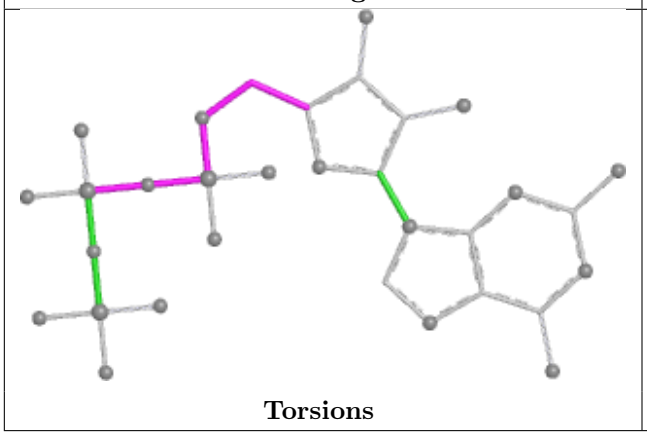

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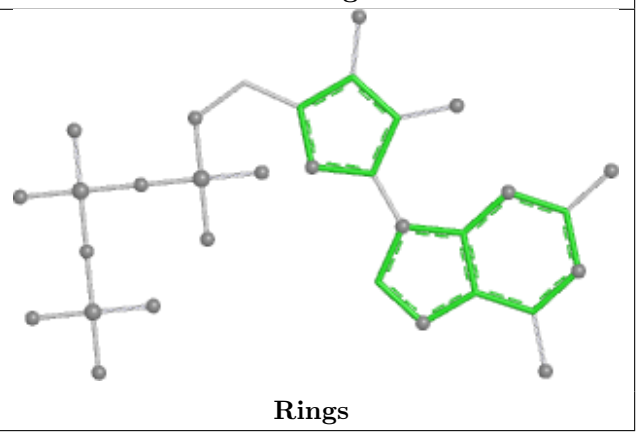
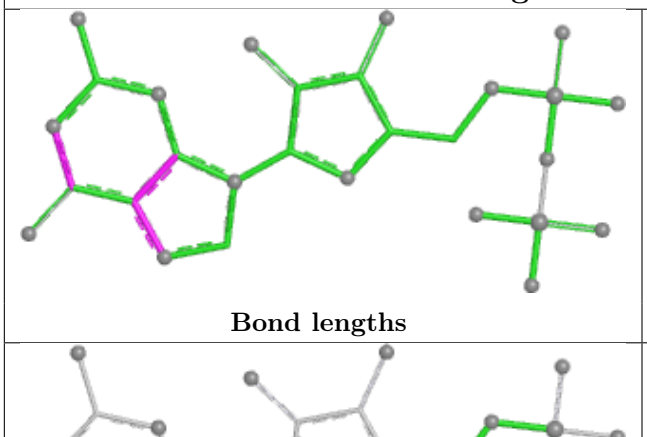


Rings

Ligand GDP RL 502



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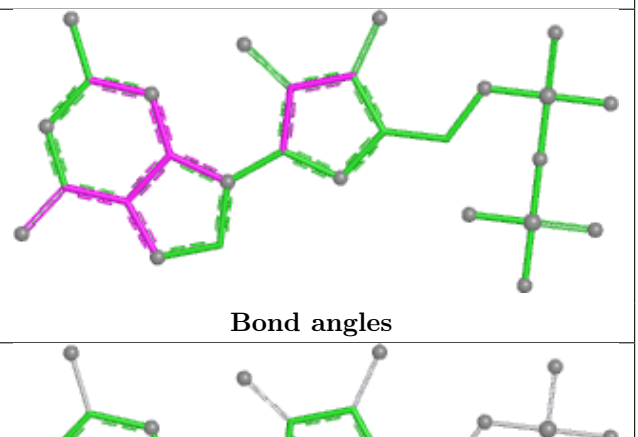

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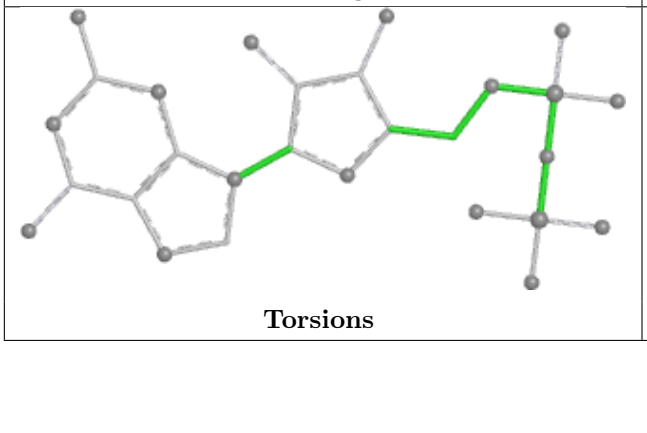

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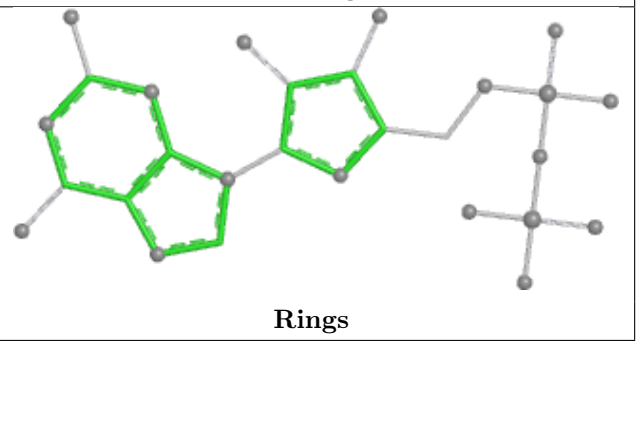

Rings

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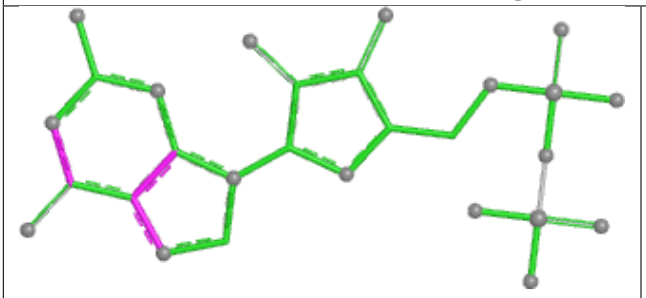

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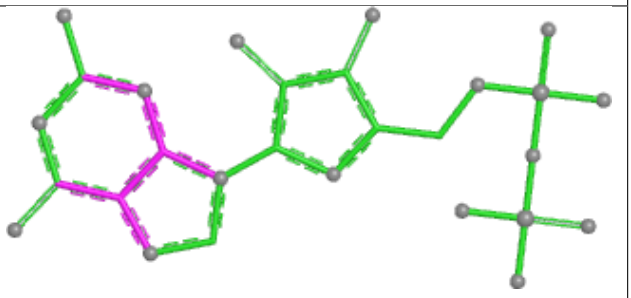

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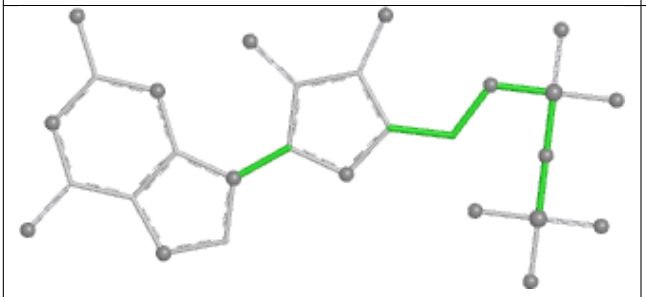

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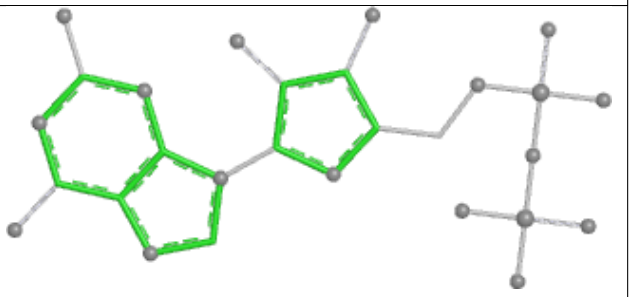
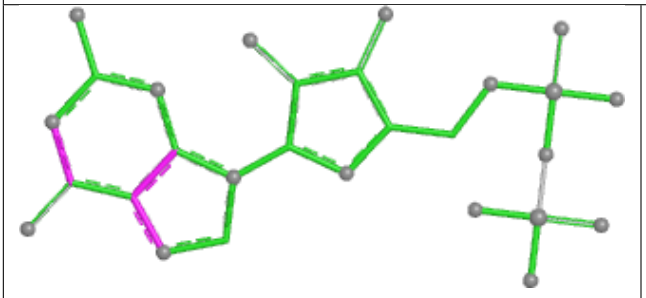


Rings

Ligand GDP AJ 502



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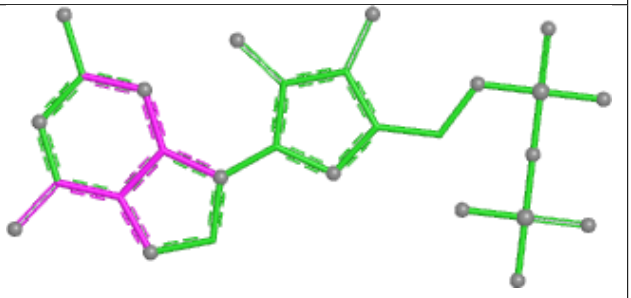

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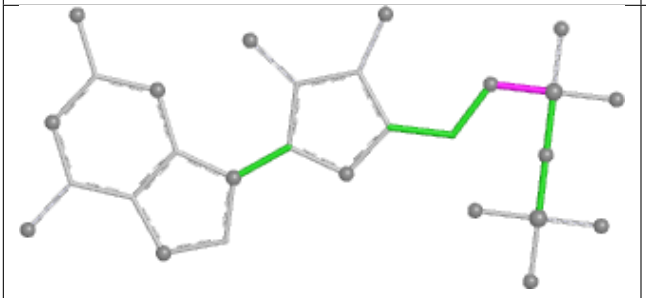

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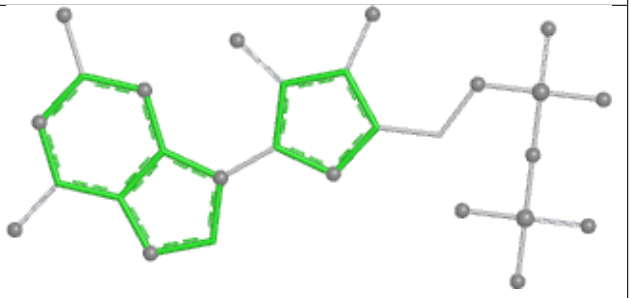
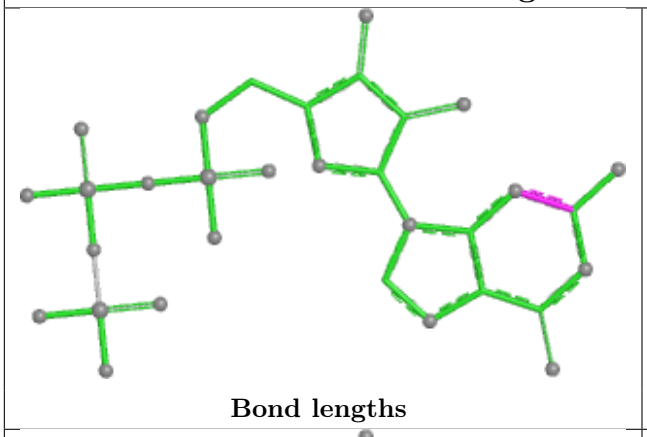


Rings

Ligand GTP IE 501



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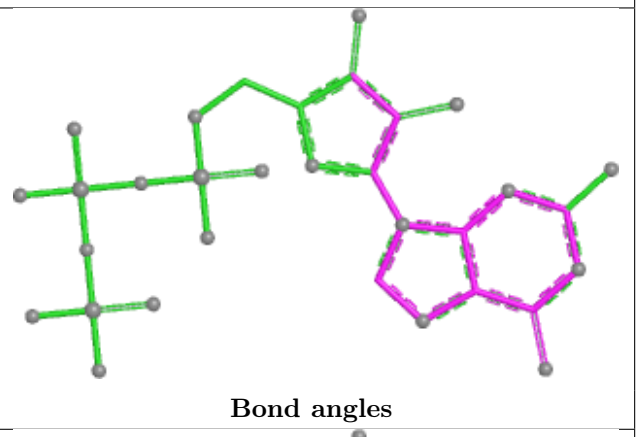

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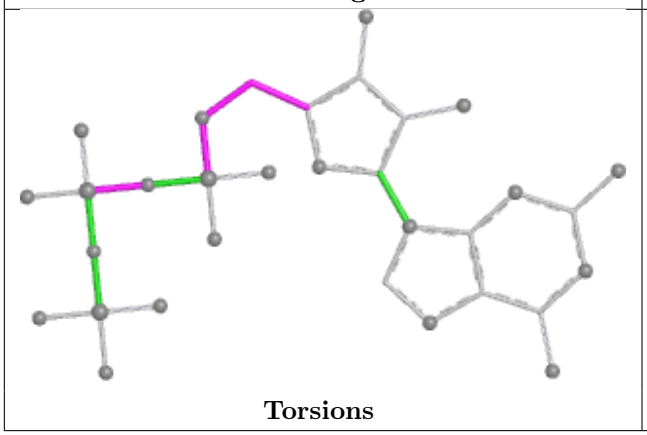

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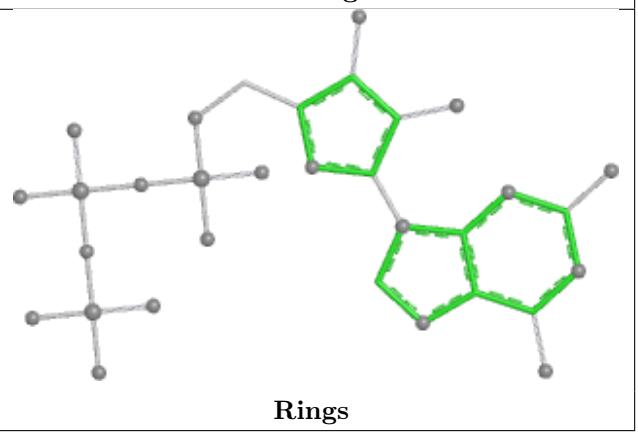
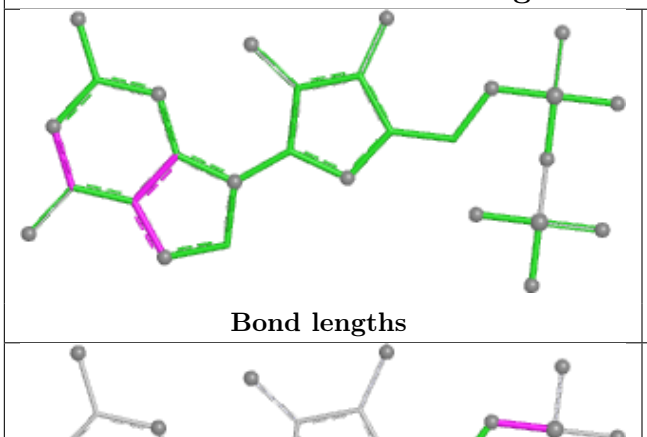


Rings

Ligand GDP LF 502



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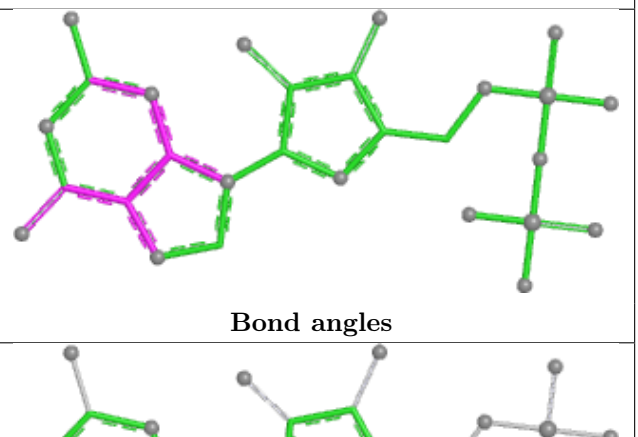

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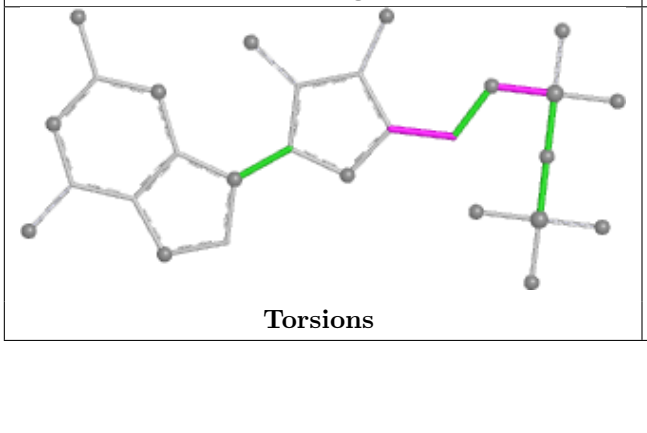

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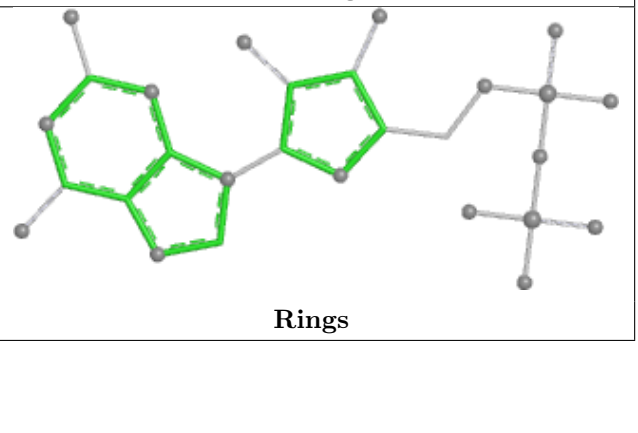

Rings

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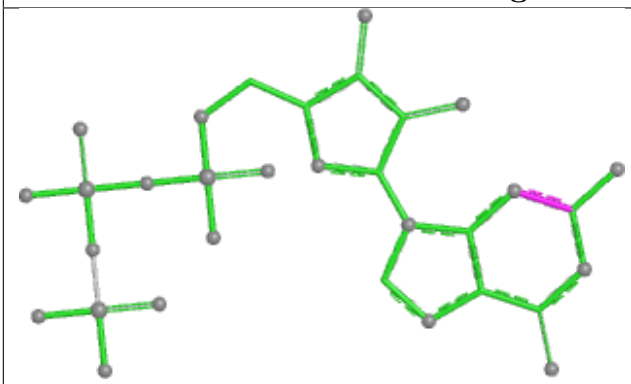

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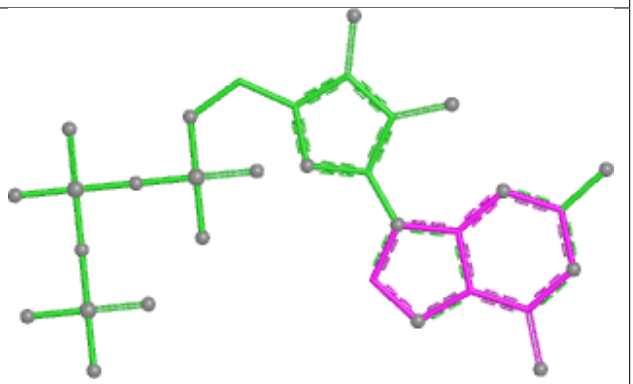

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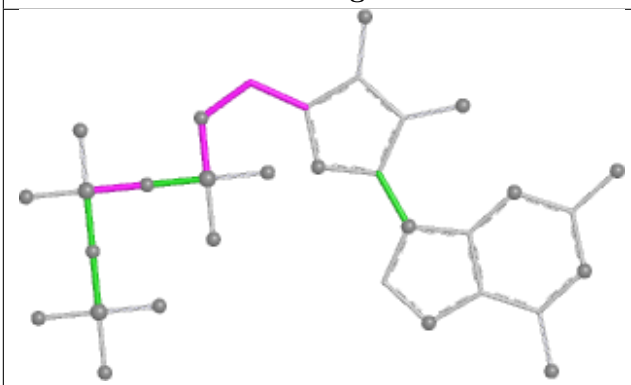

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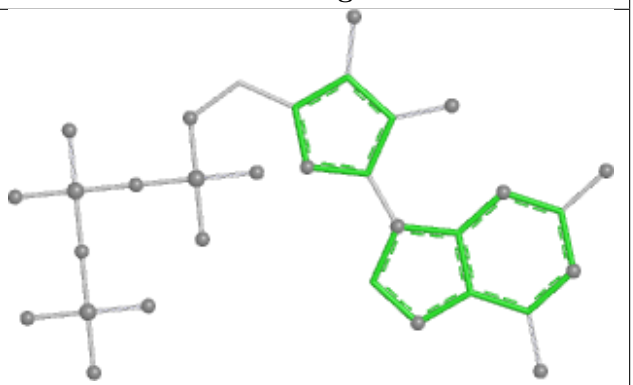
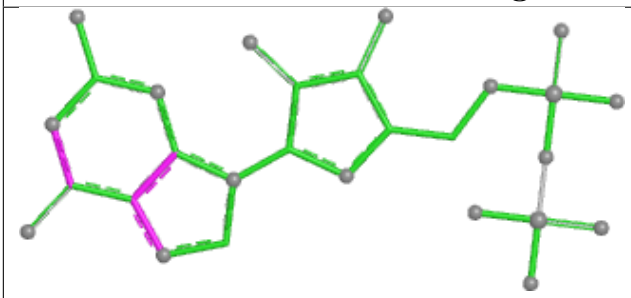


Rings

Ligand GDP JH 502



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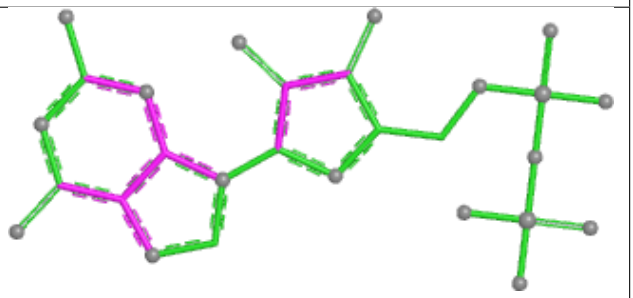

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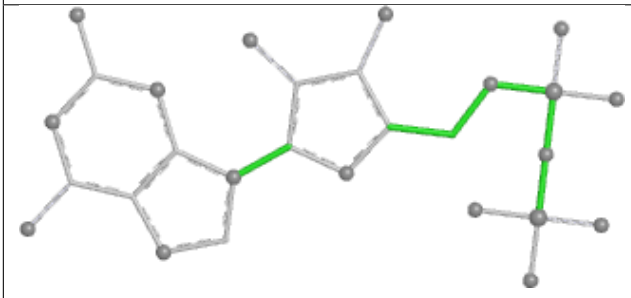

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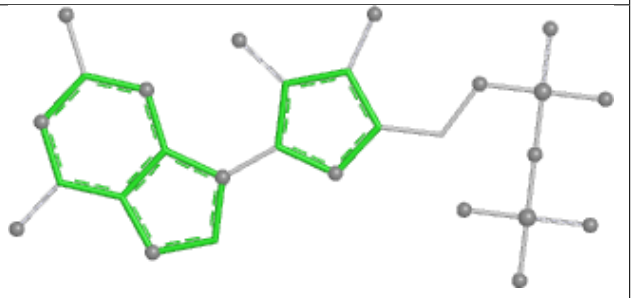
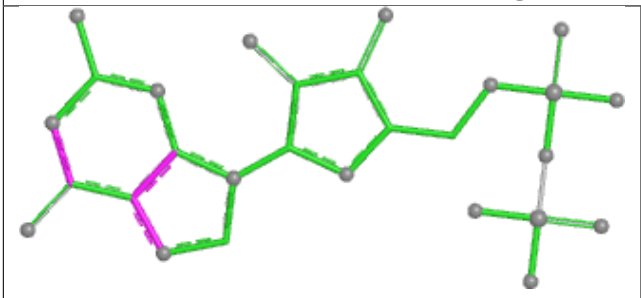


Rings

Ligand GDP NJ 502



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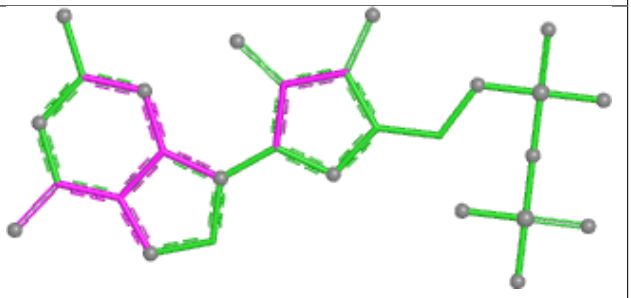

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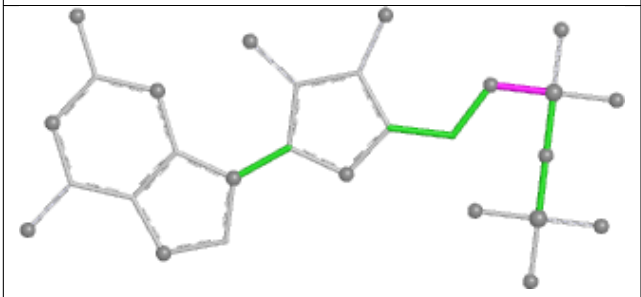

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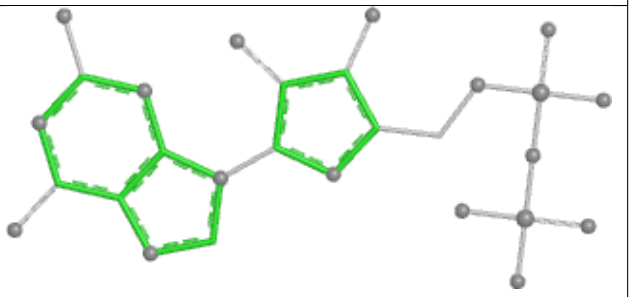
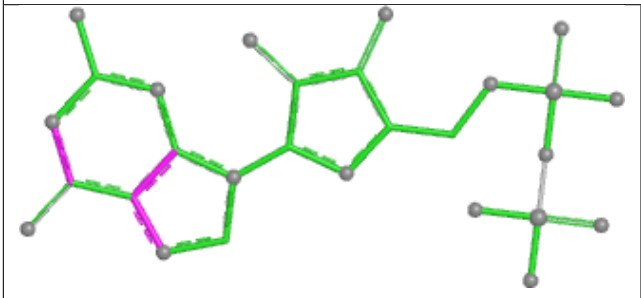


Rings

Ligand GDP NP 502



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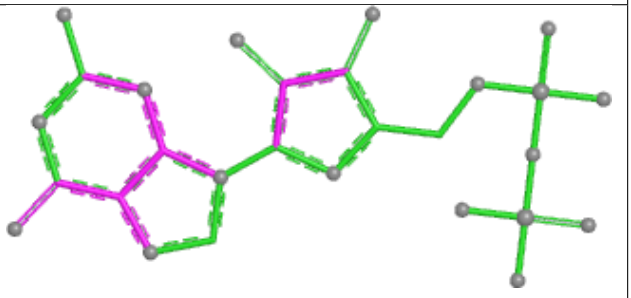

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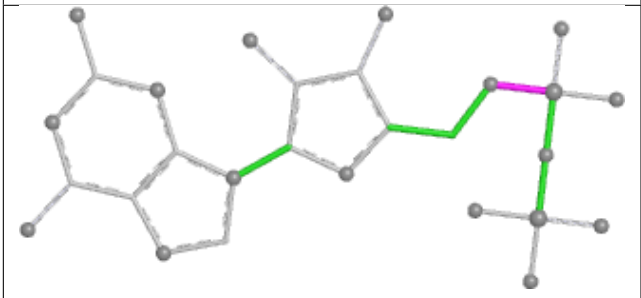

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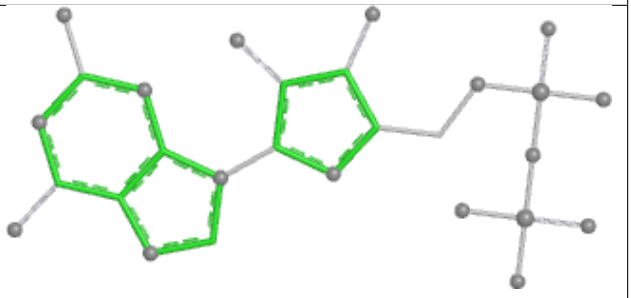
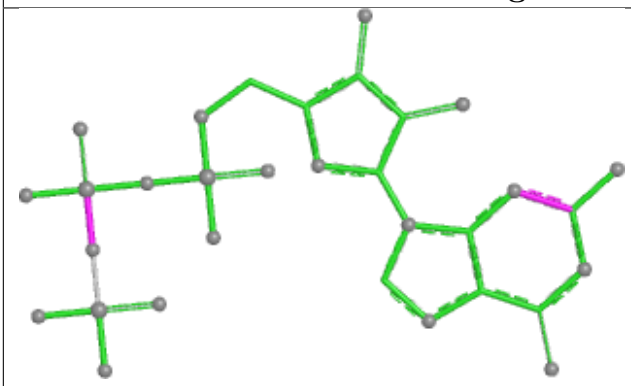


Rings

Ligand GTP HO 501



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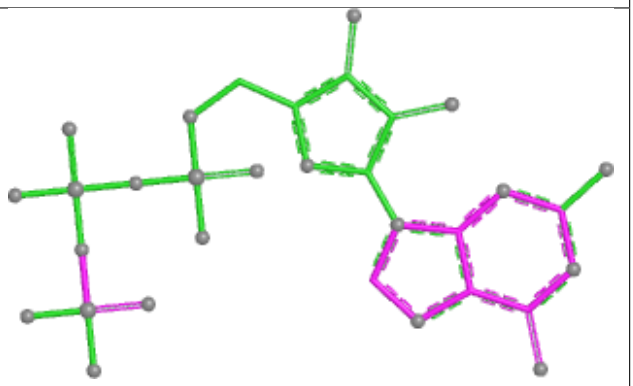

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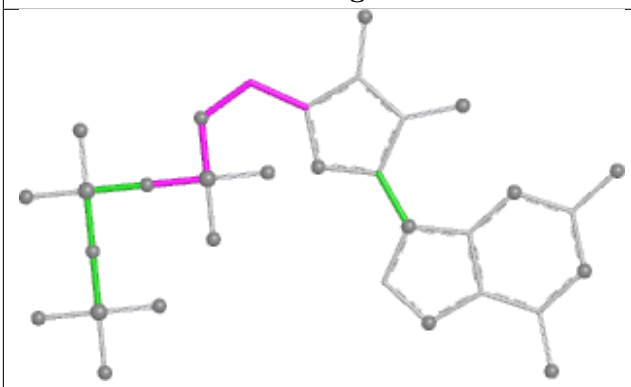

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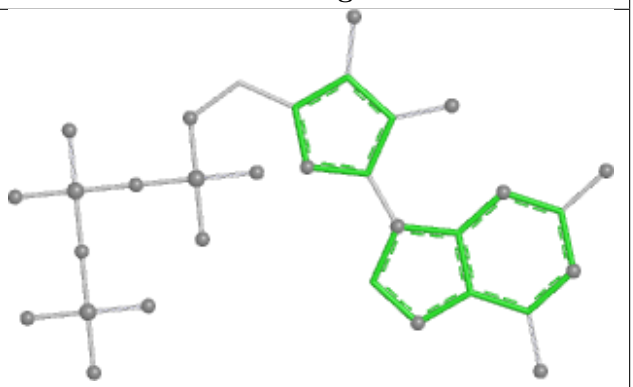
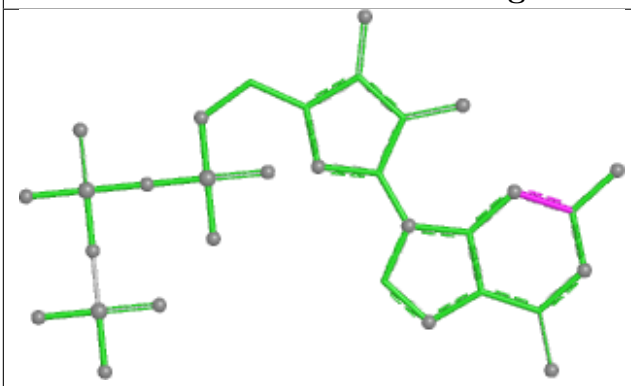


Rings

Ligand GTP HA 501



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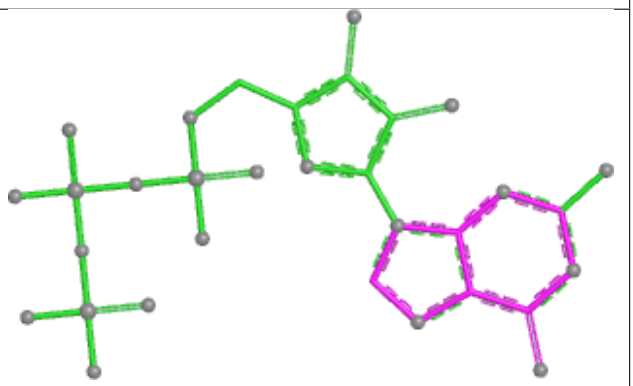

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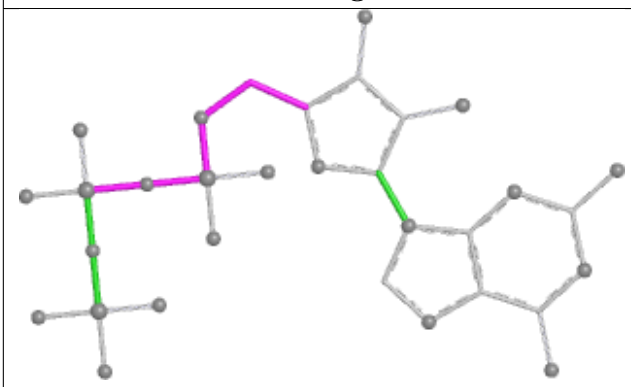
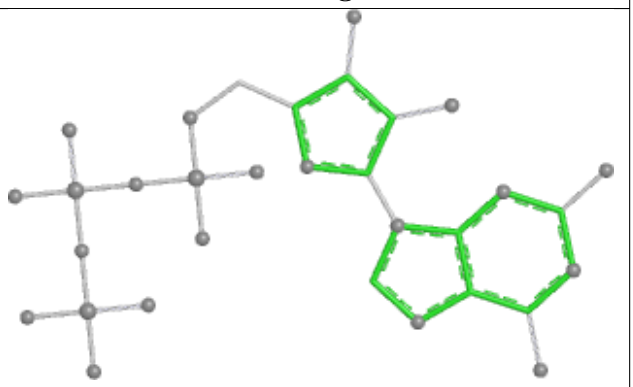
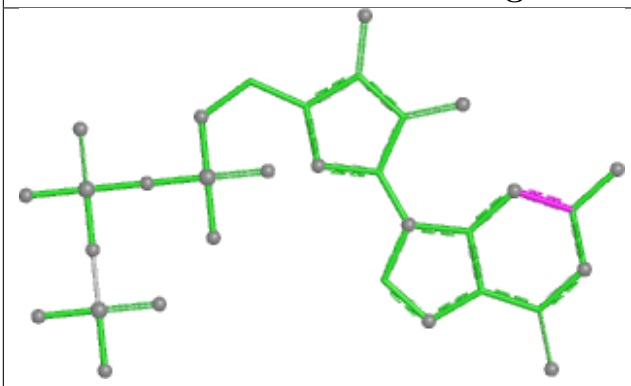


Torsions



Rings

Ligand GTP BM 501



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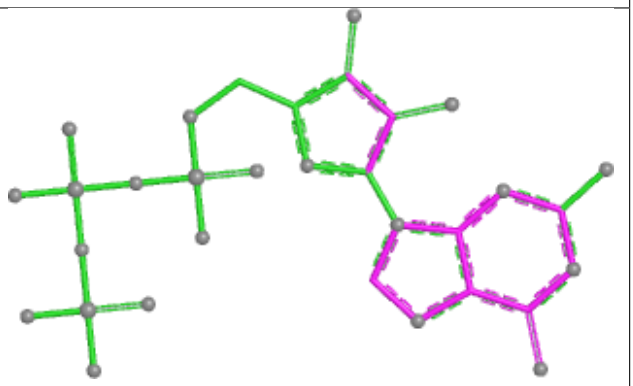

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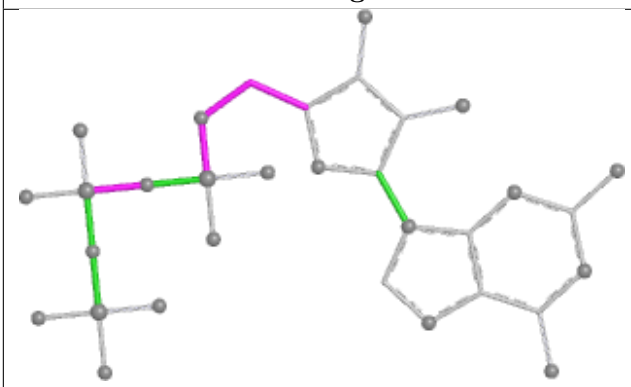

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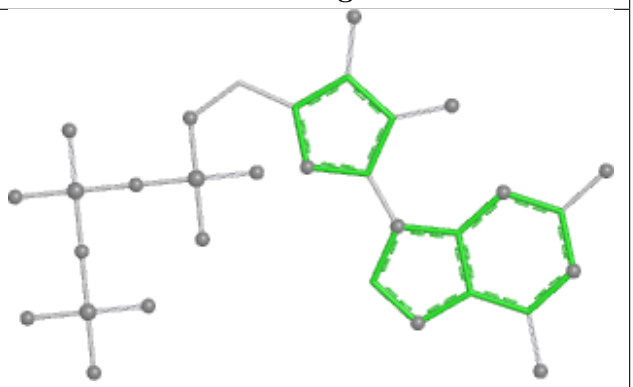
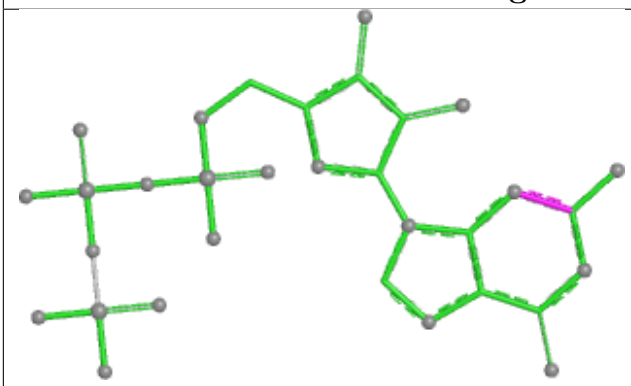


Rings

Ligand GTP OC 501



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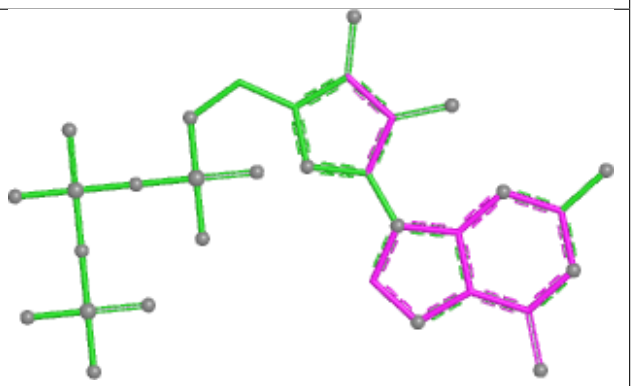

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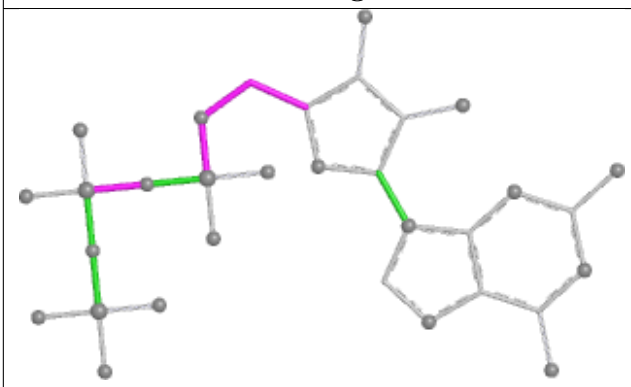

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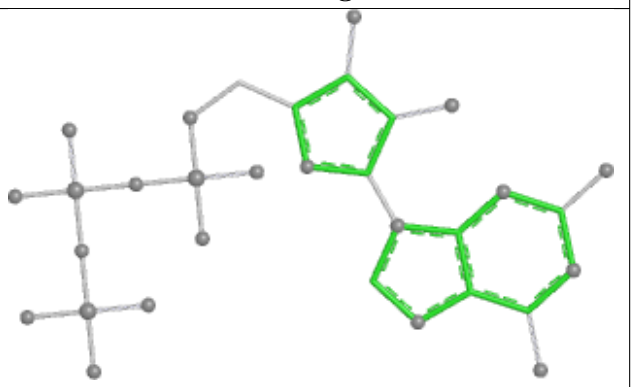
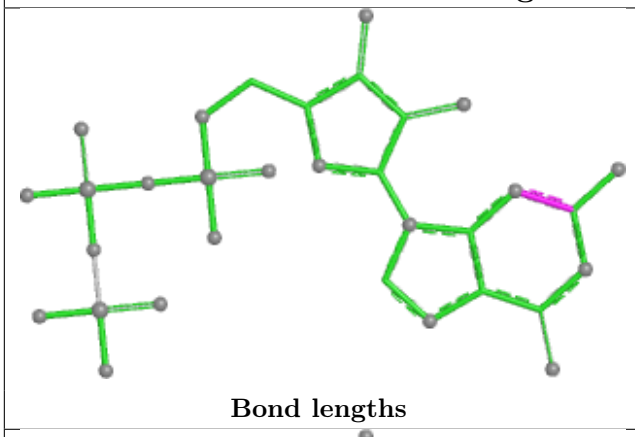


Rings

Ligand GTP QI 501



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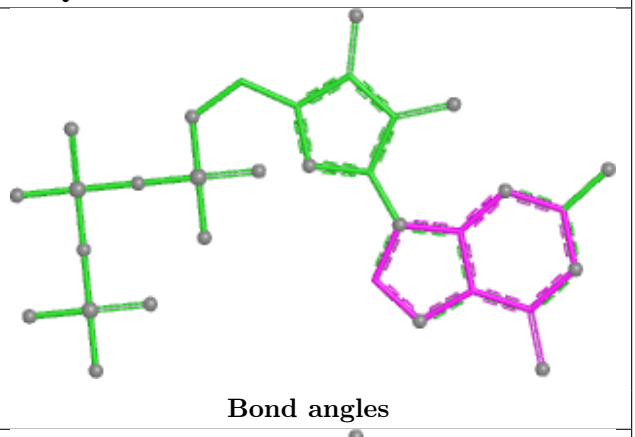

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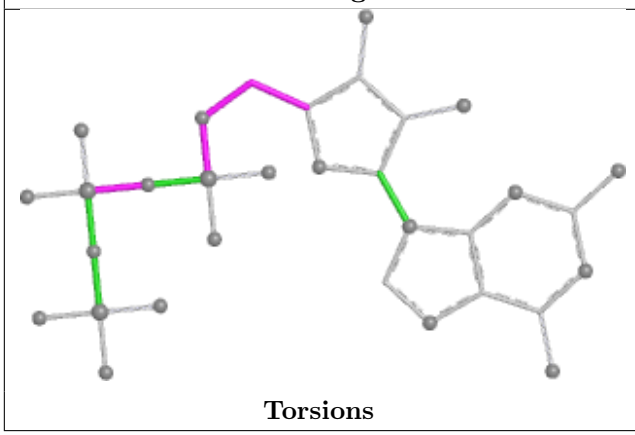

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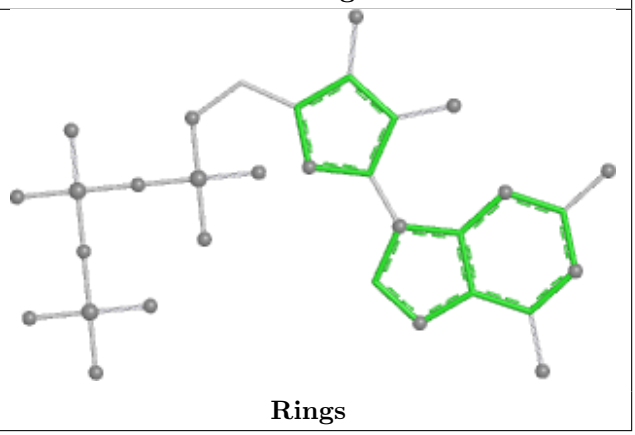

Rings

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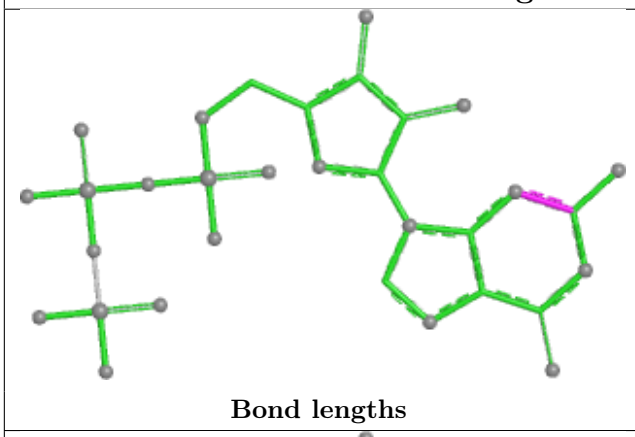

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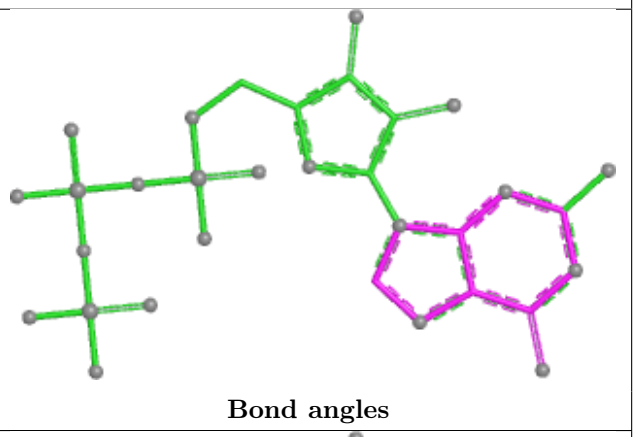

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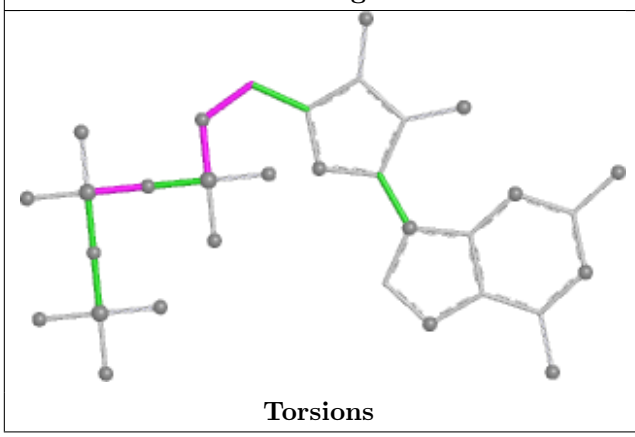

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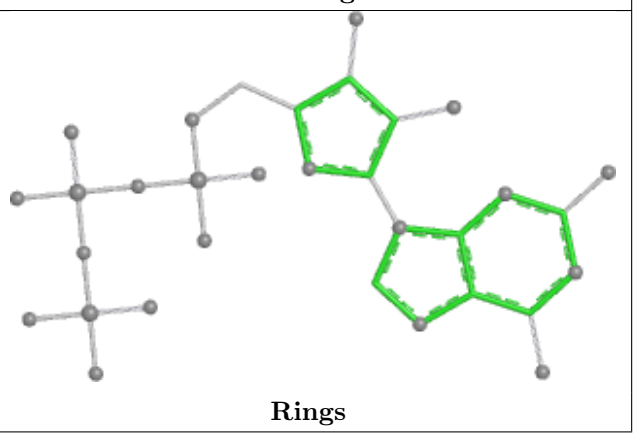
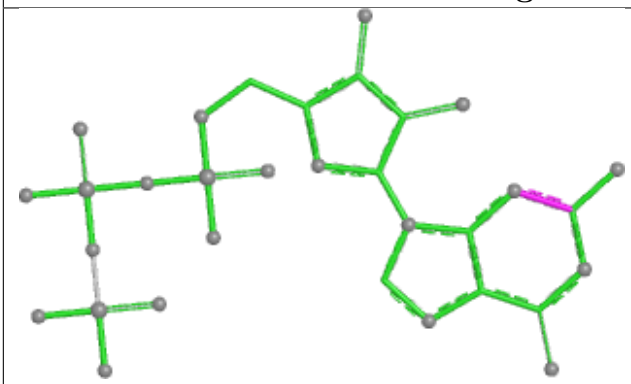


Rings

Ligand GTP IC 501



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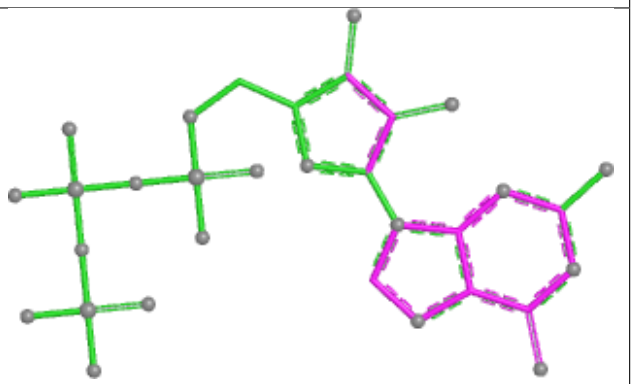

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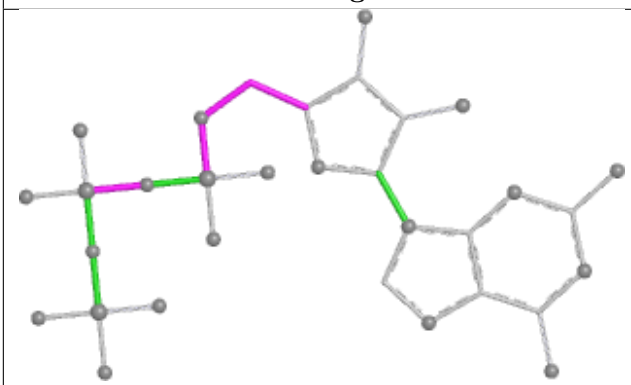

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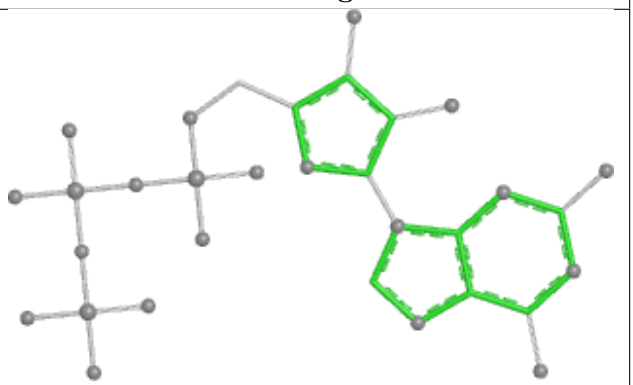

Rings

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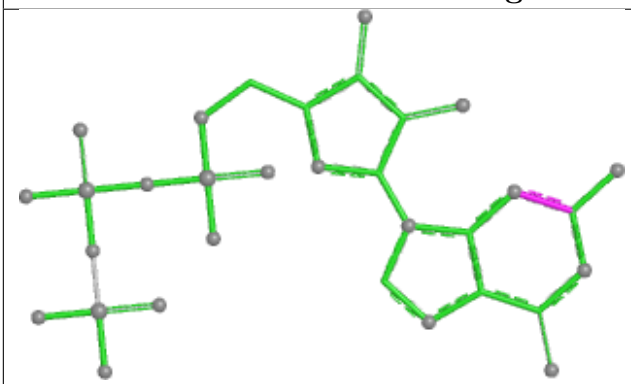

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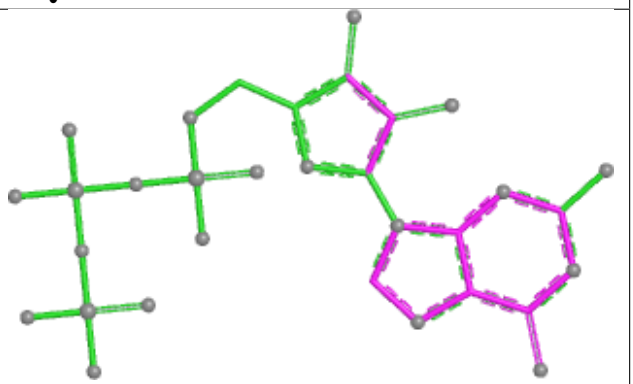

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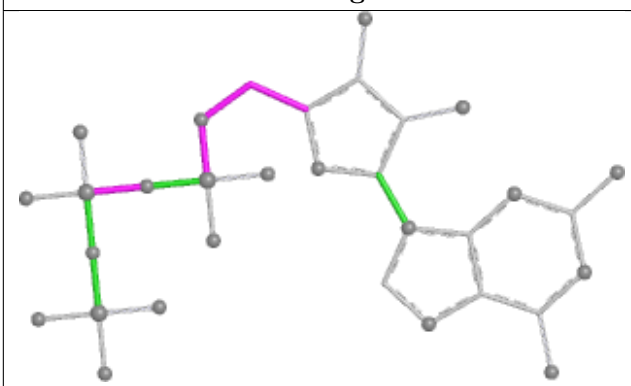

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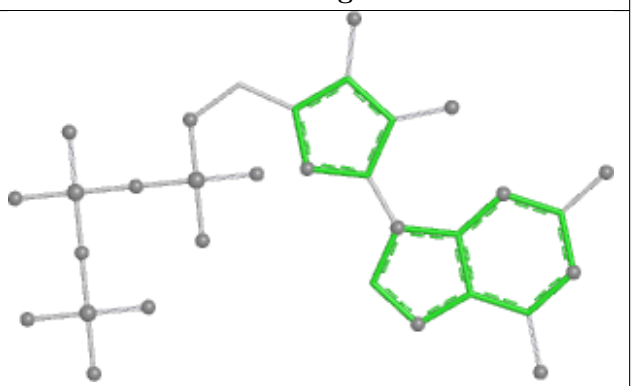

Rings

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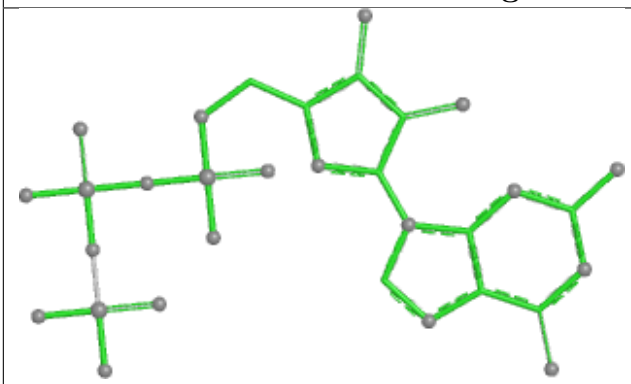

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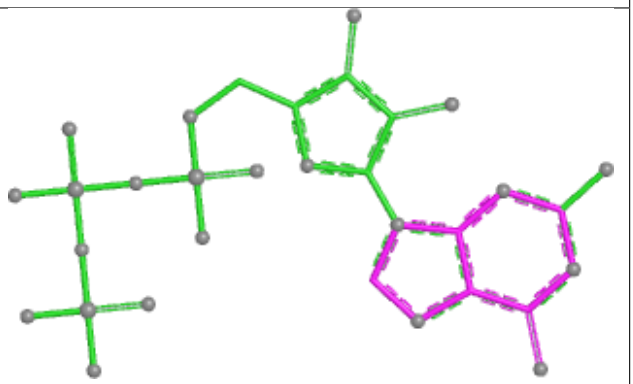

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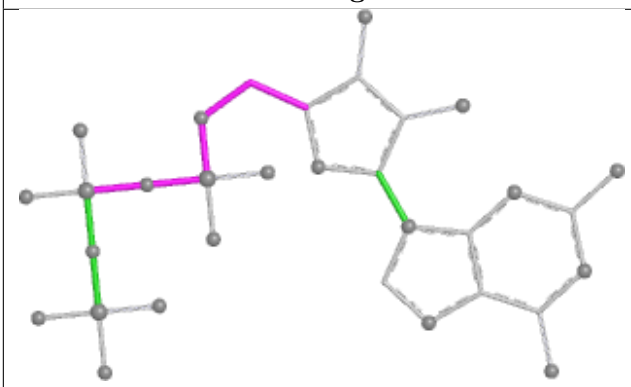

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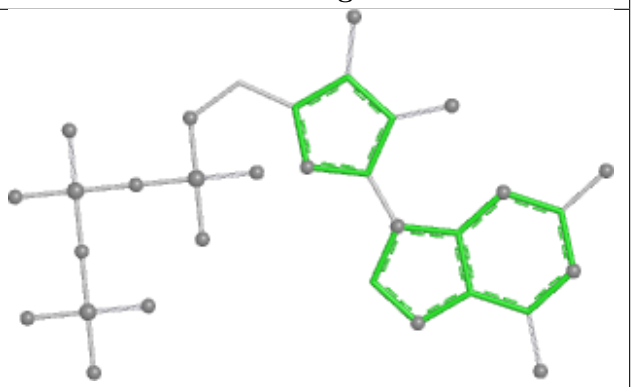
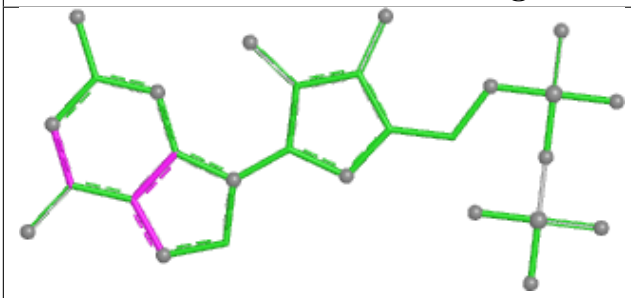


Rings

Ligand GDP OL 502



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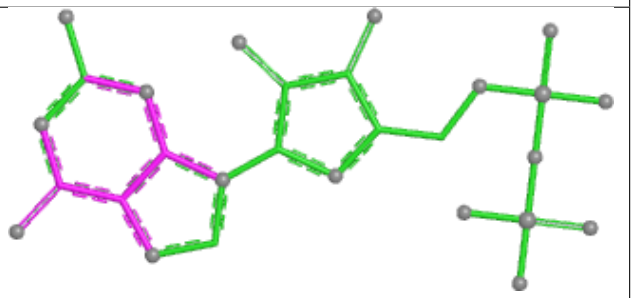

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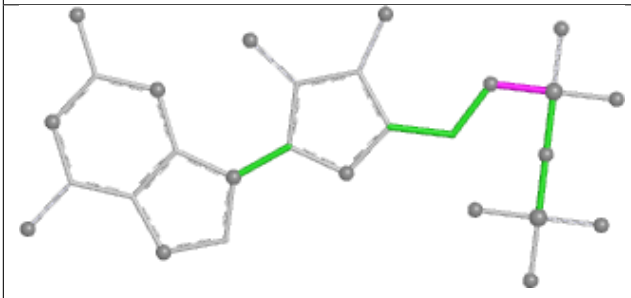

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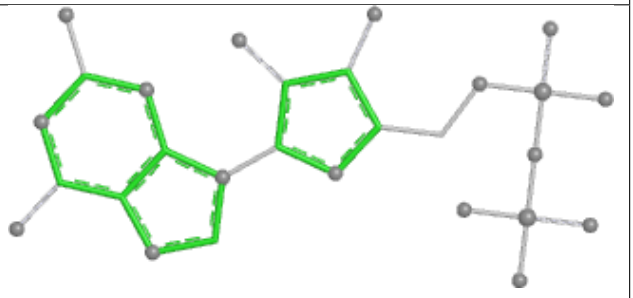

Rings

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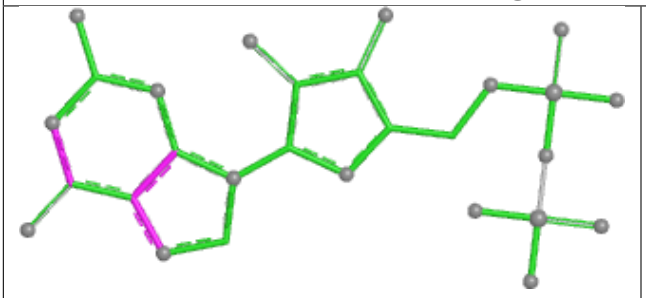

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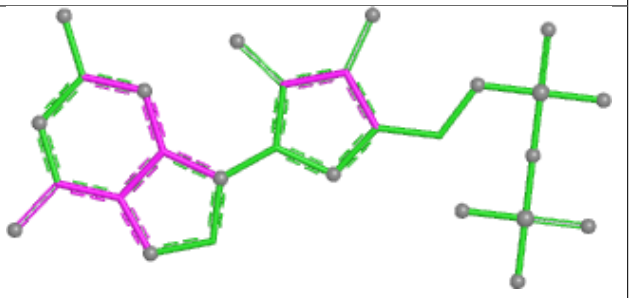

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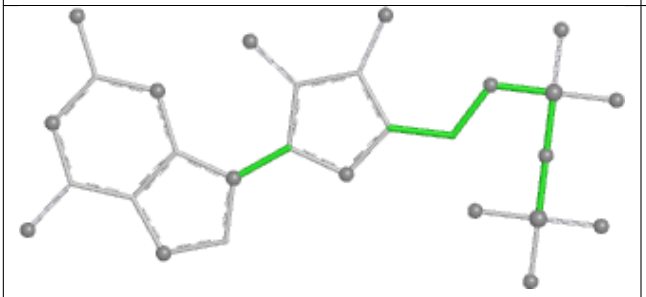

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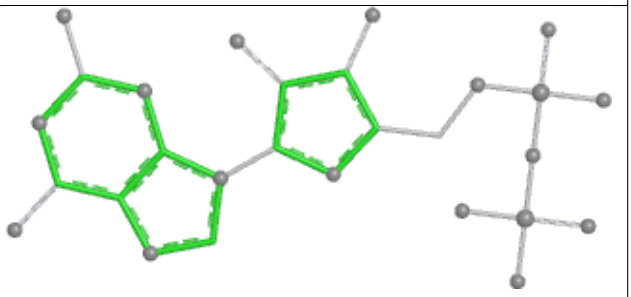

Rings

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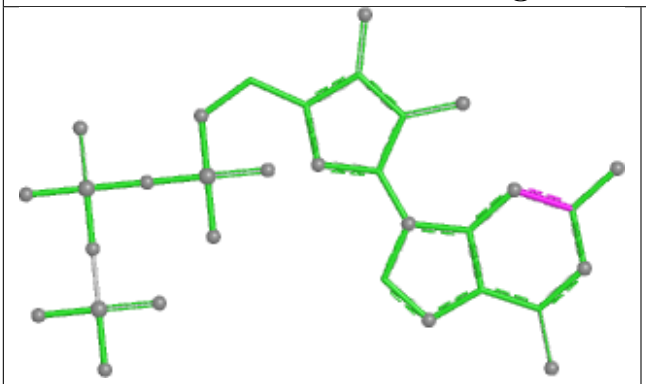

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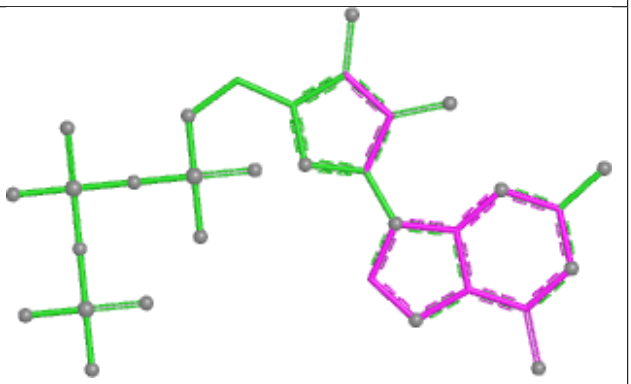

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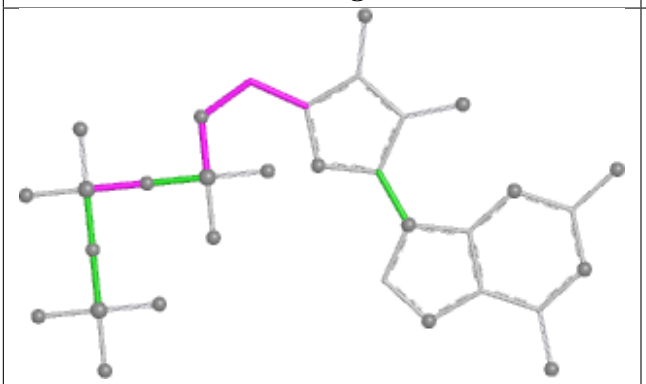

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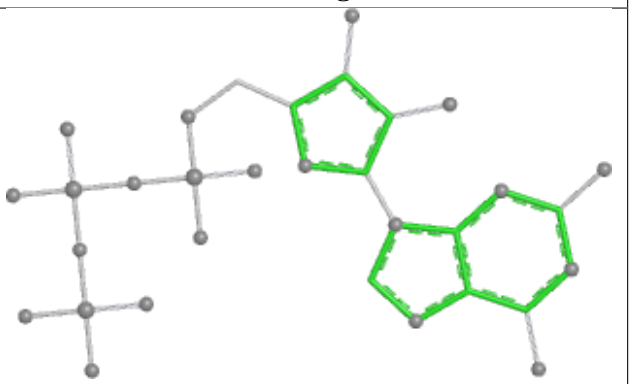
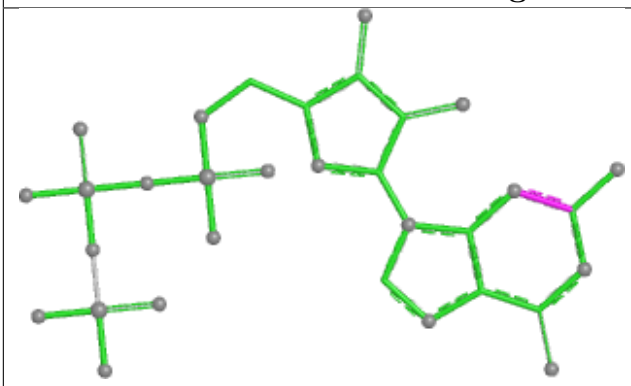


Rings

Ligand GTP TG 501



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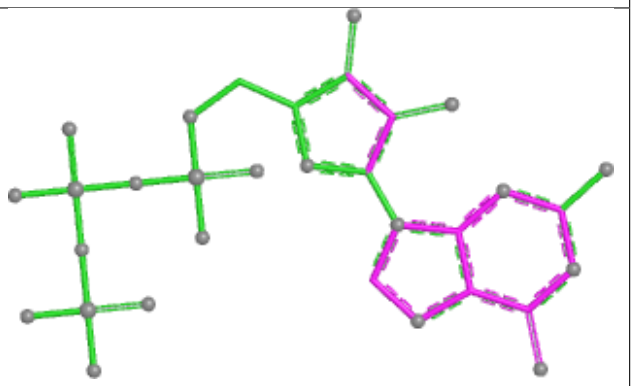

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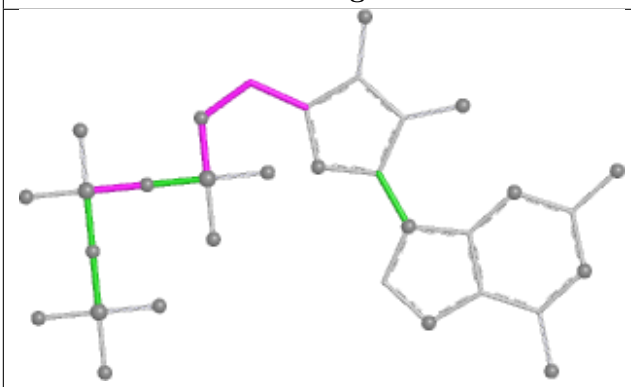

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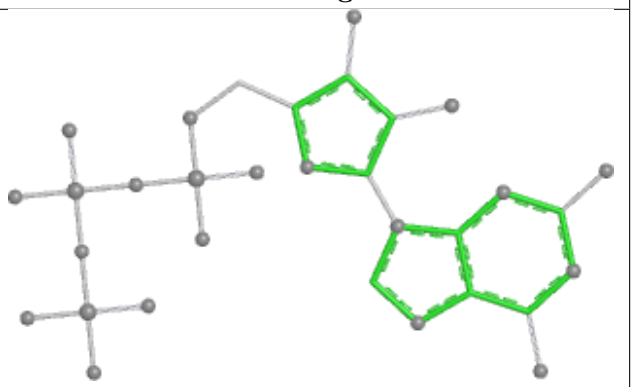
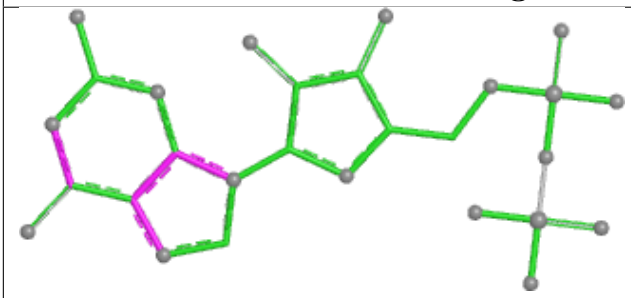


Rings

Ligand GDP LH 502



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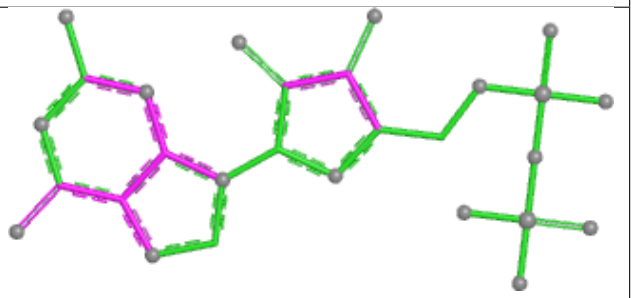

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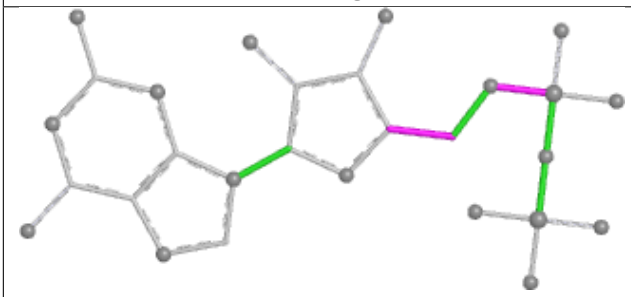

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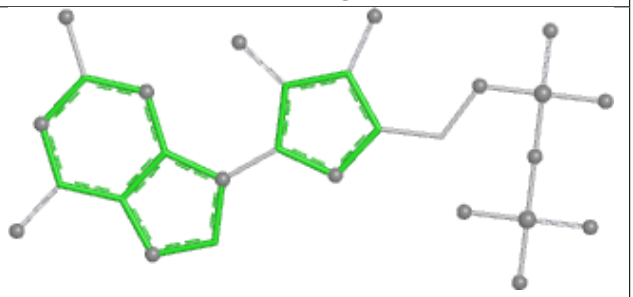
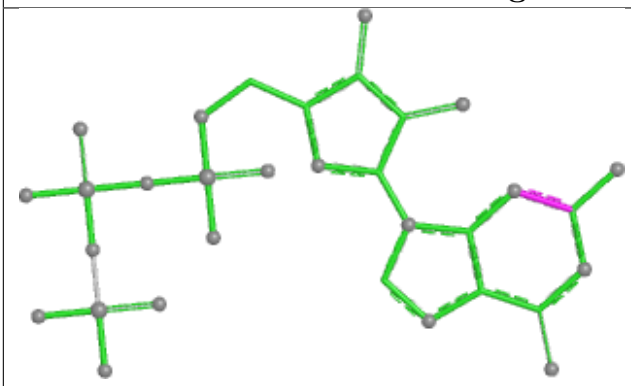


Rings

Ligand GTP NC 501



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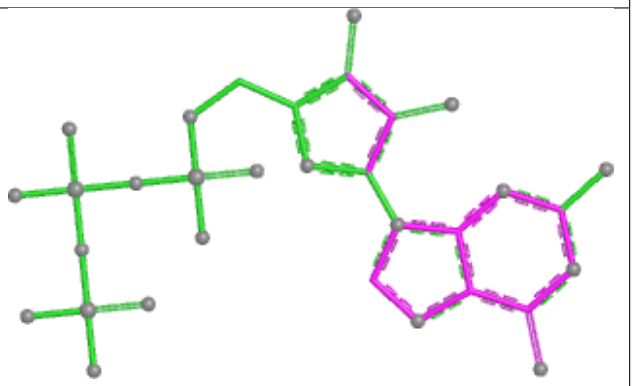

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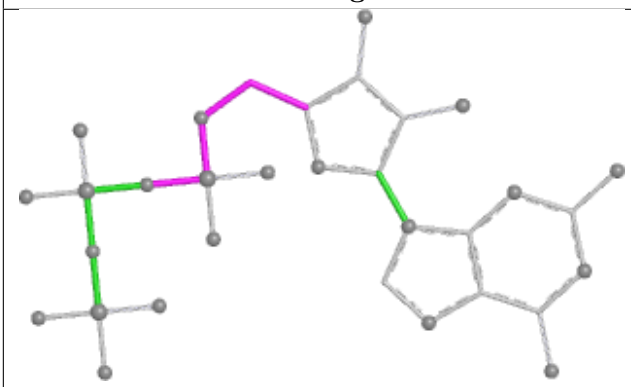

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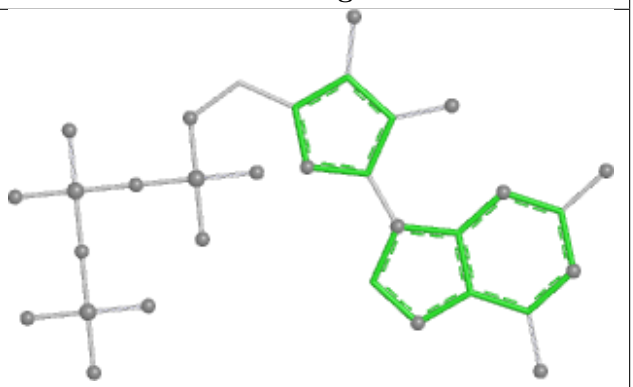
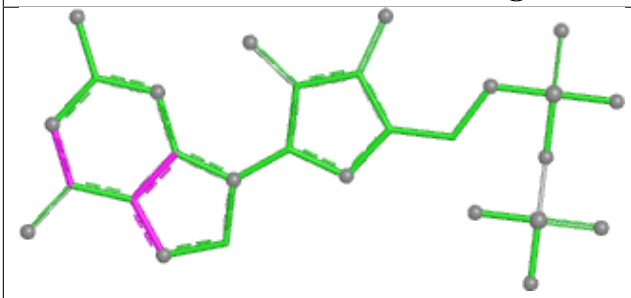


Rings

Ligand GDP BH 502



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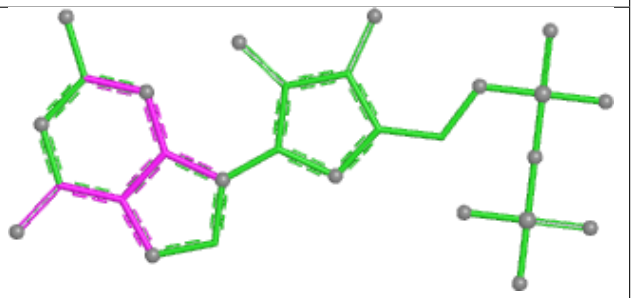

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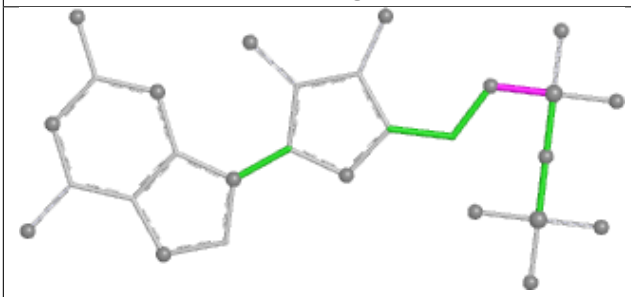
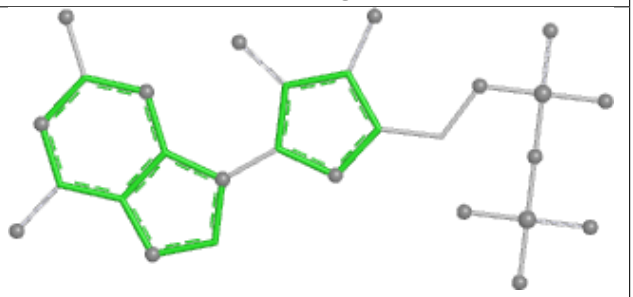
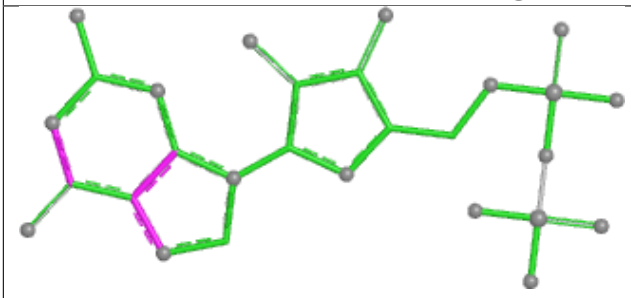


Torsions



Rings

Ligand GDP EB 502



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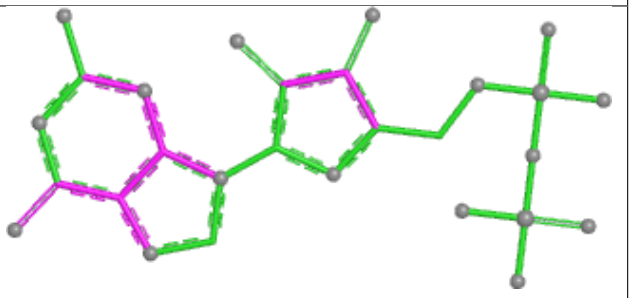

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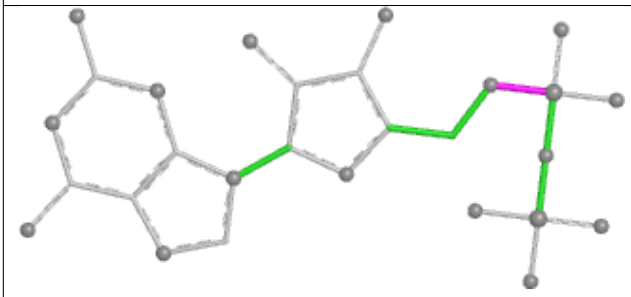

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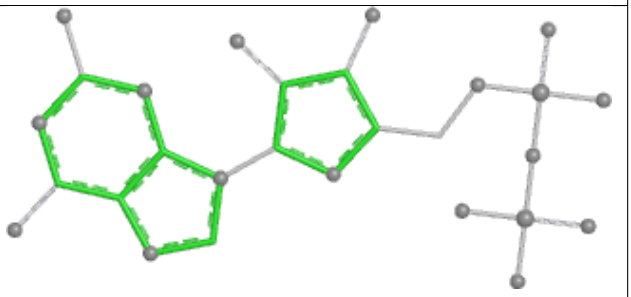
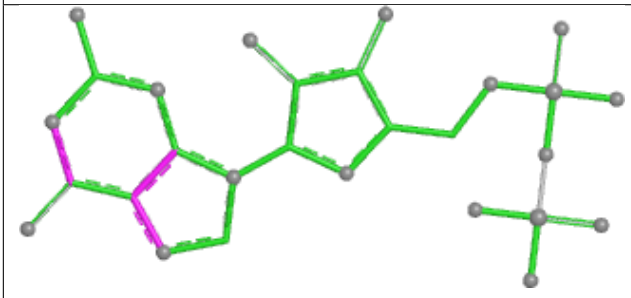


Rings

Ligand GDP VJ 502



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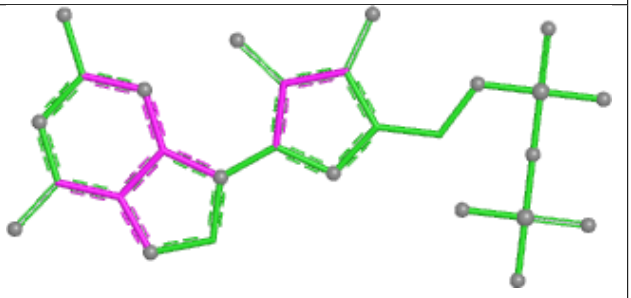

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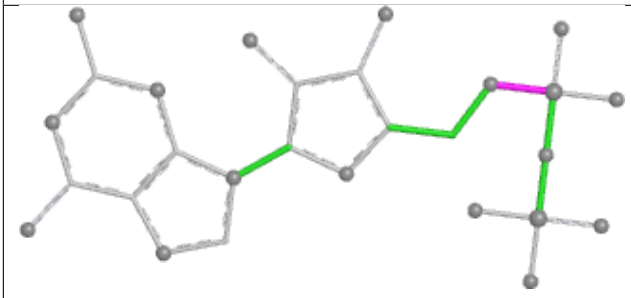

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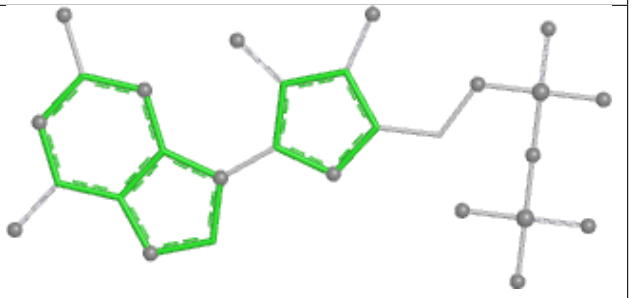

Rings

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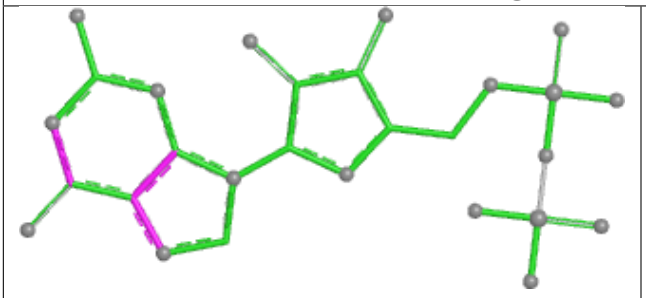

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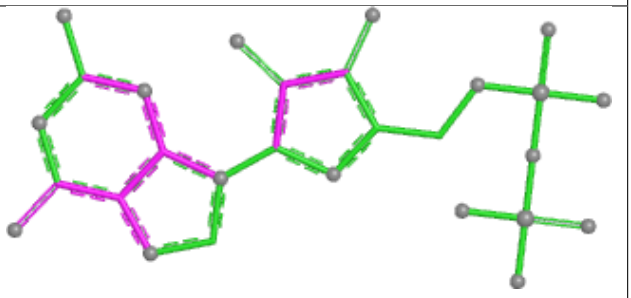

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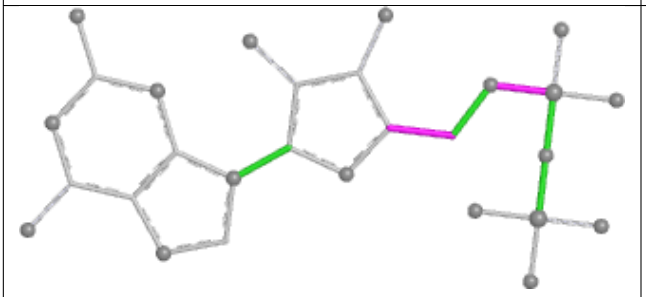

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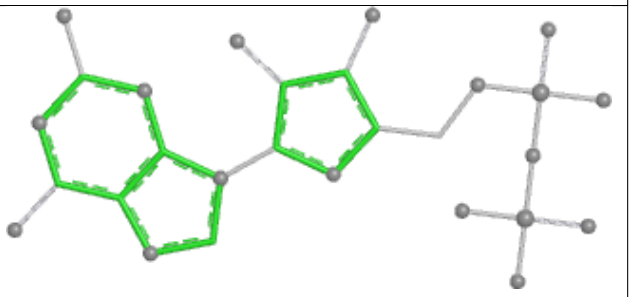

Rings

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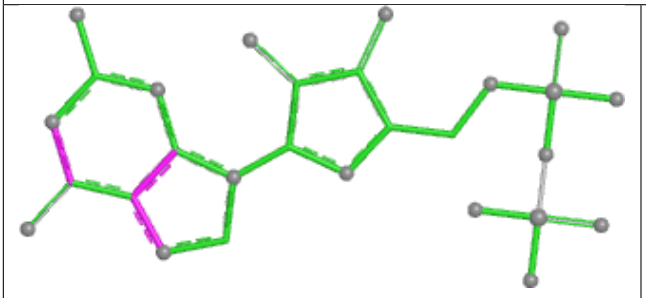

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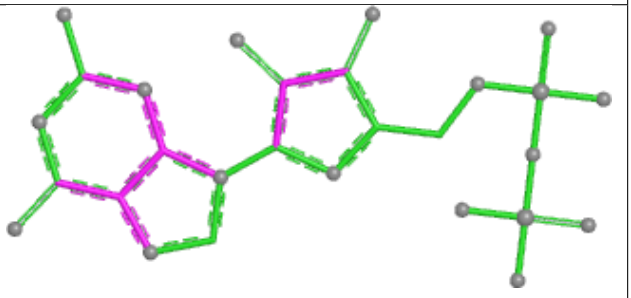

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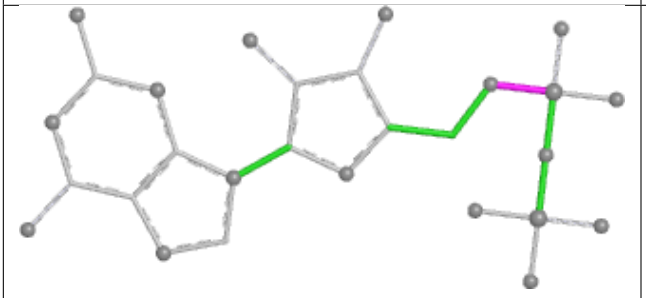

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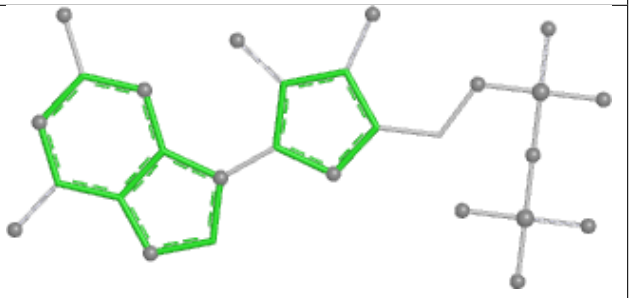
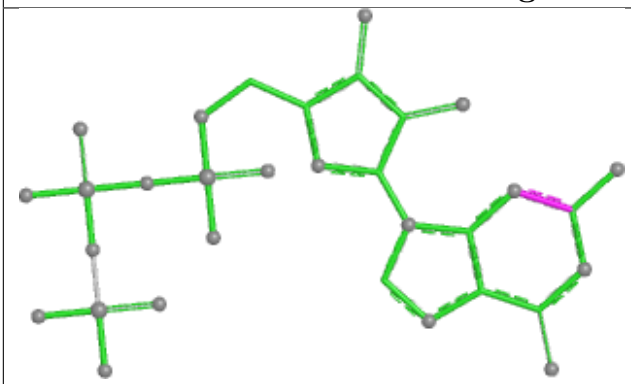


Rings

Ligand GTP LI 501



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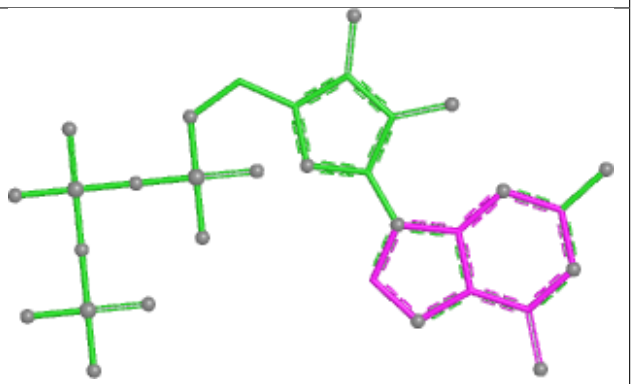

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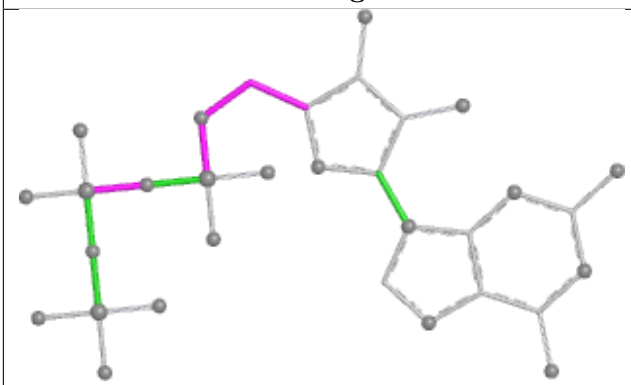

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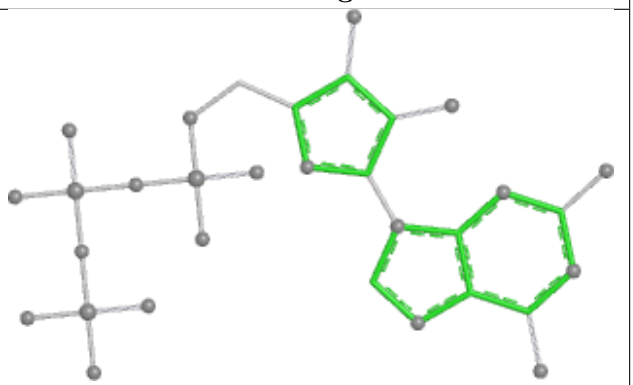
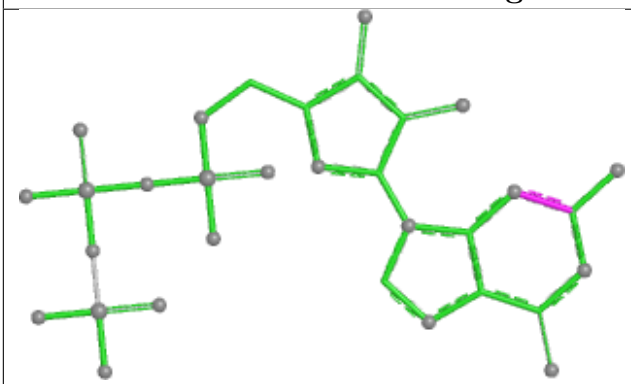


Rings

Ligand GTP MC 501



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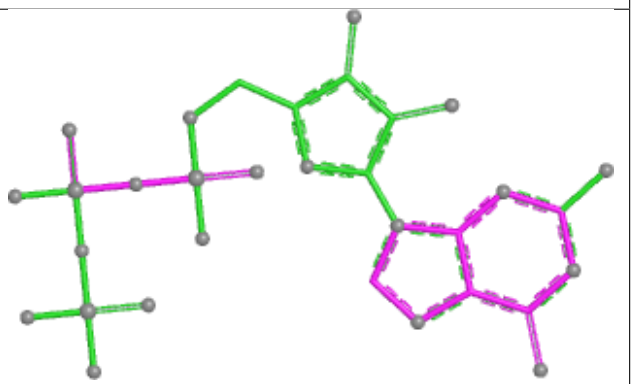

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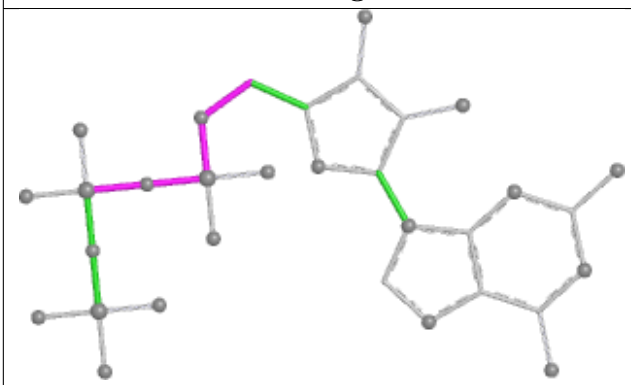

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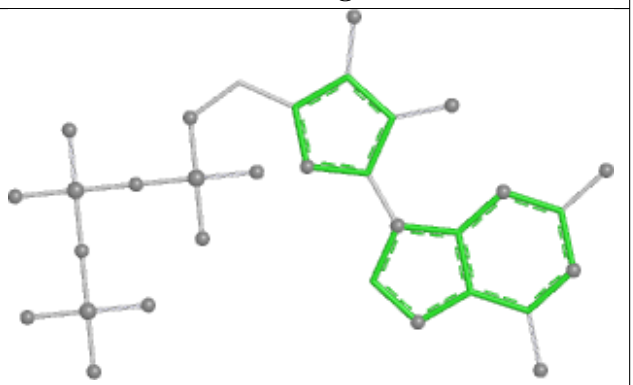

Rings

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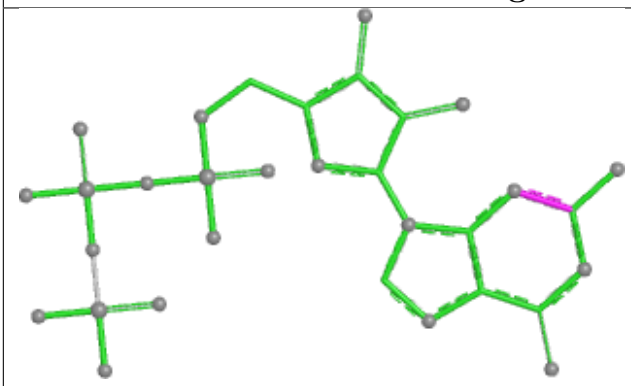

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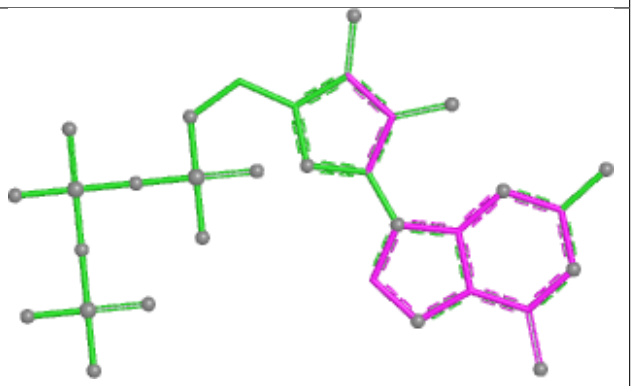

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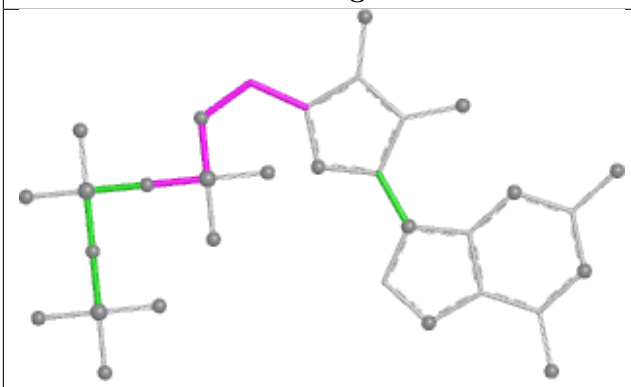

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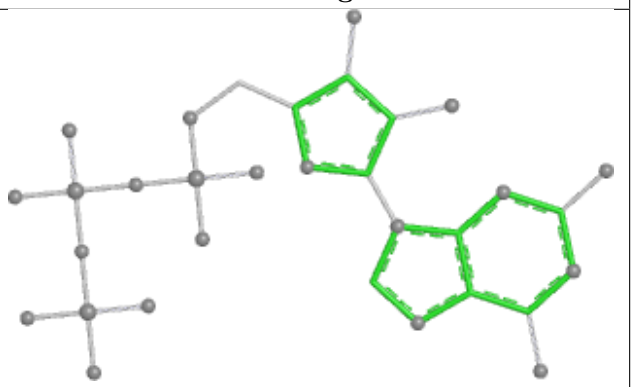
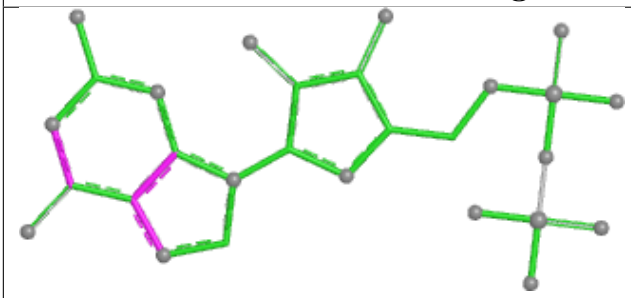


Rings

Ligand GDP FB 502



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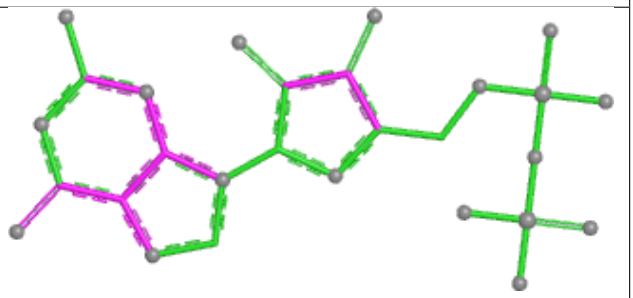

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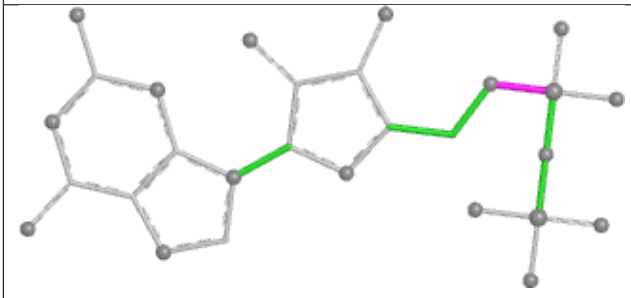

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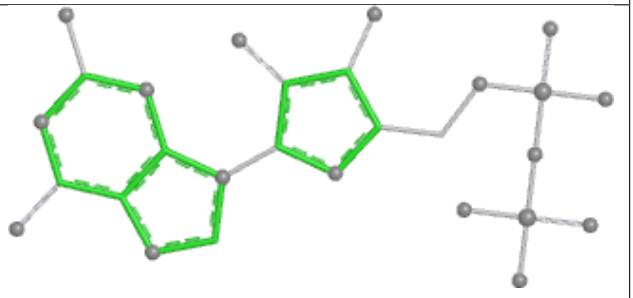

Rings

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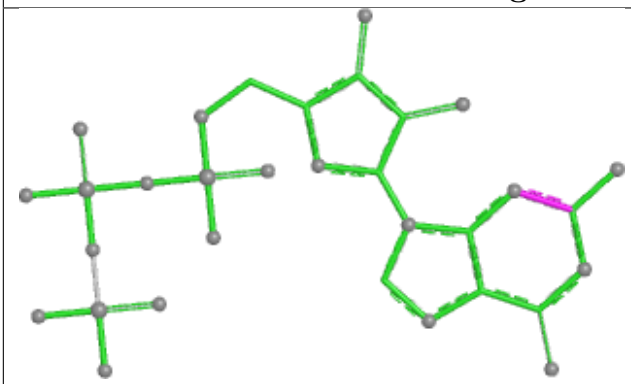

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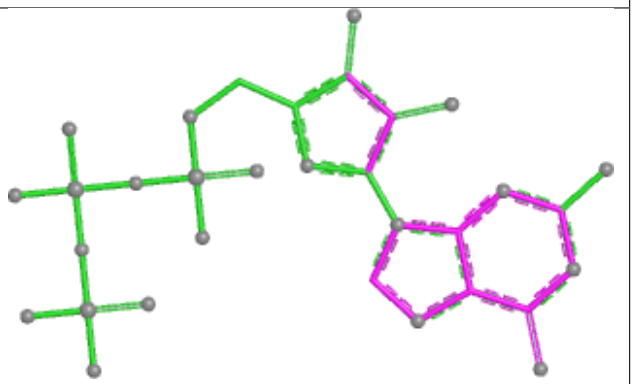

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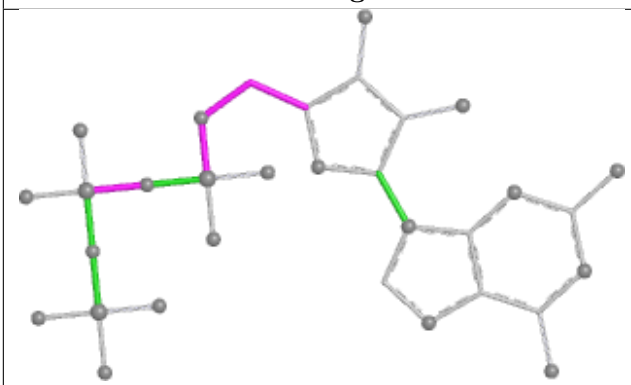

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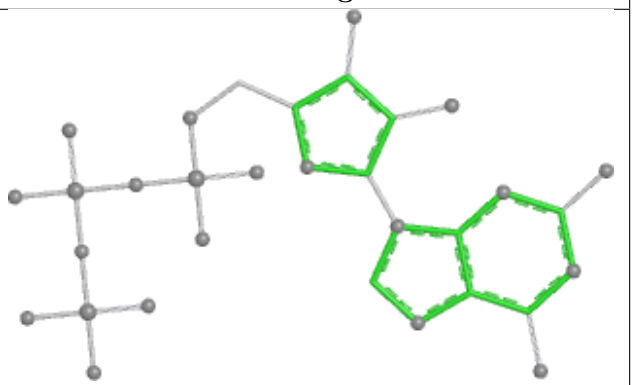

Rings

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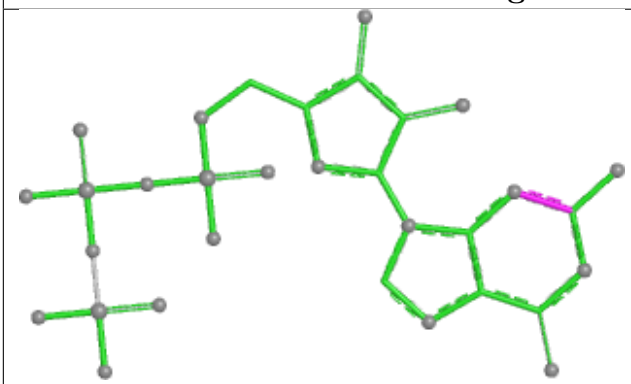

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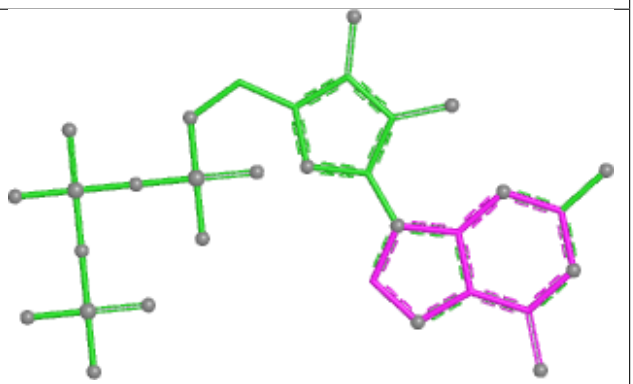

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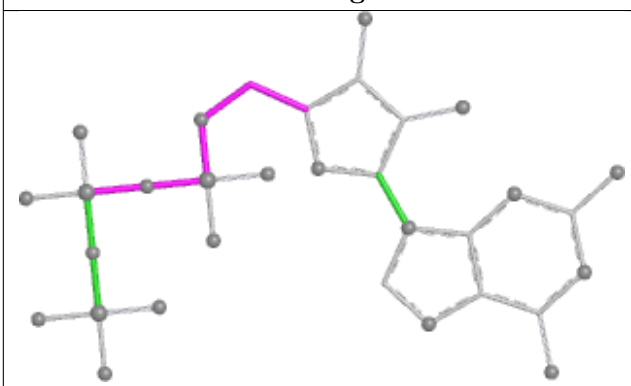

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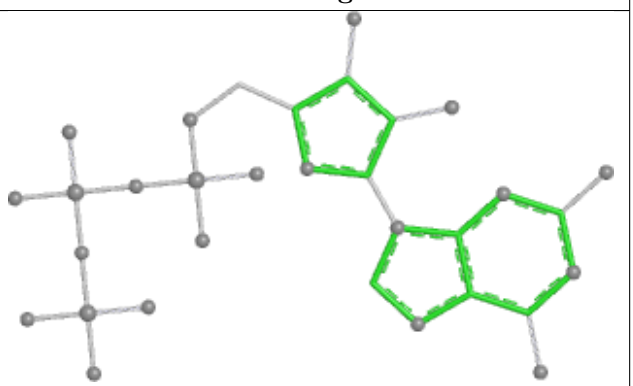

Rings

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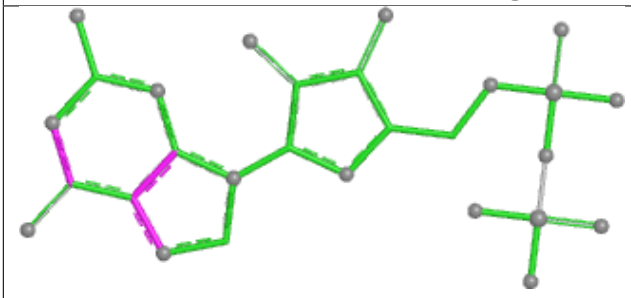

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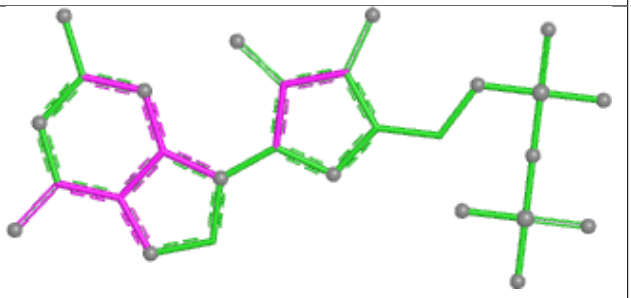

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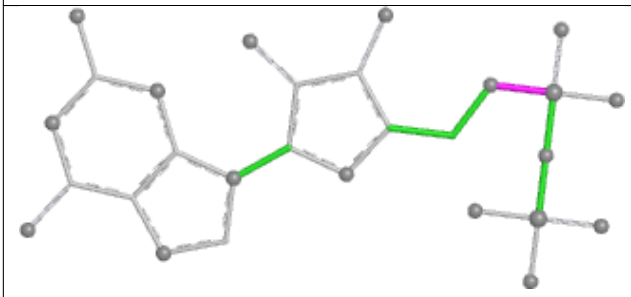

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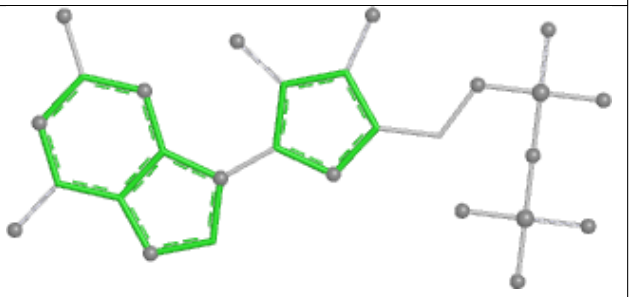
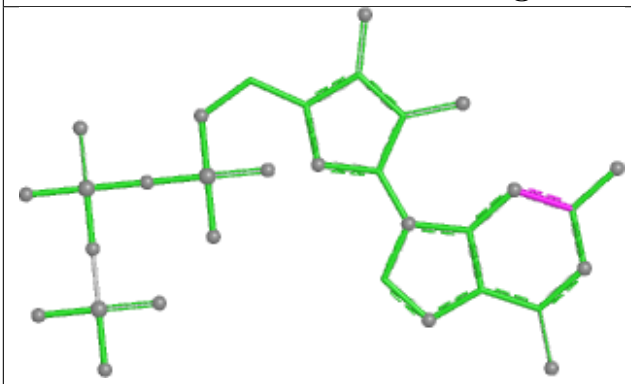


Rings

Ligand GTP JO 501



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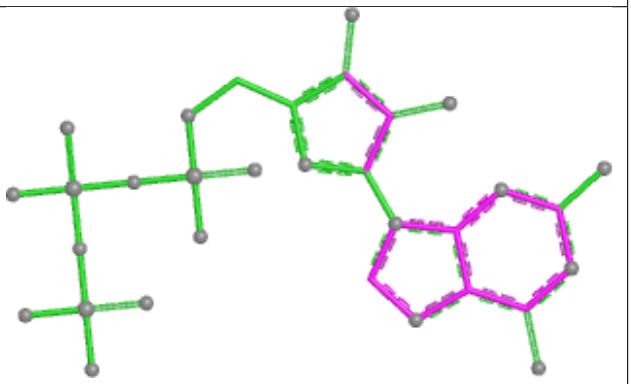

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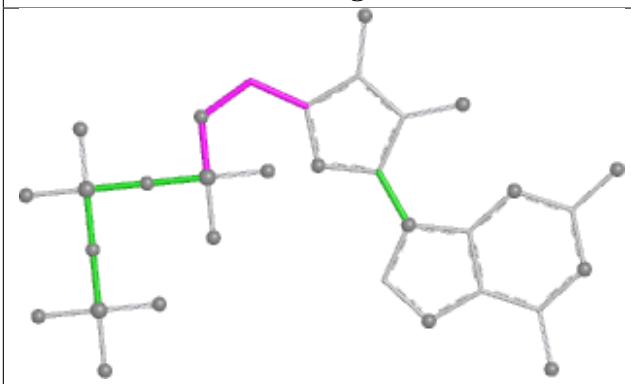

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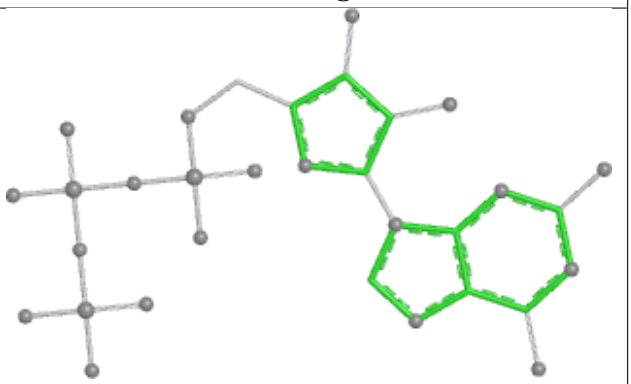

Rings

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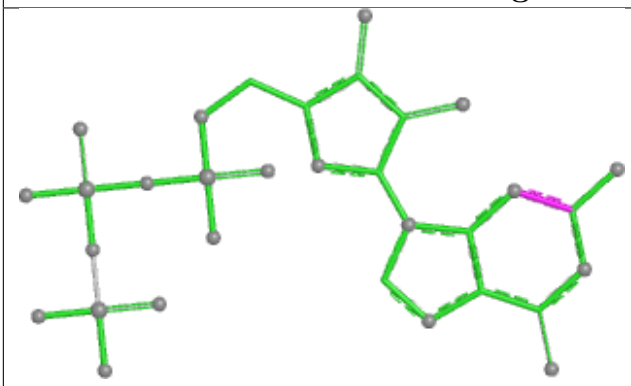

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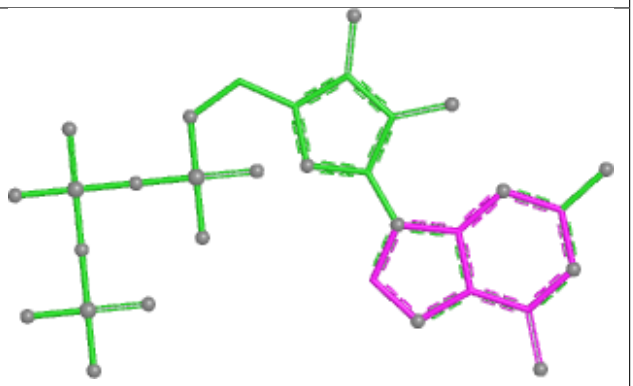

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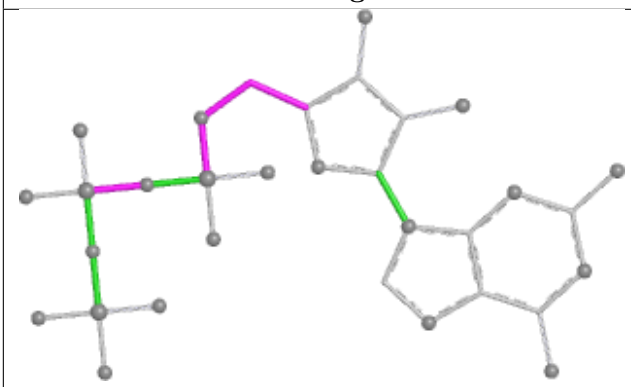

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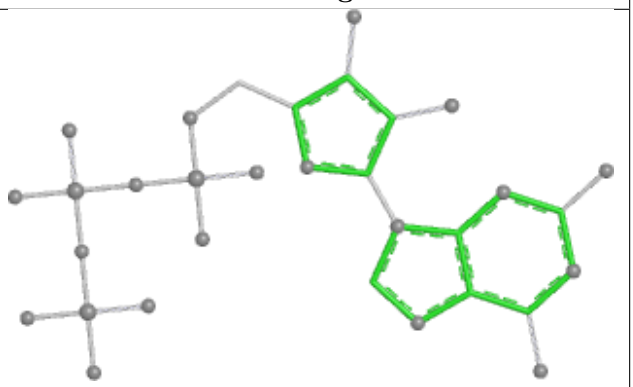
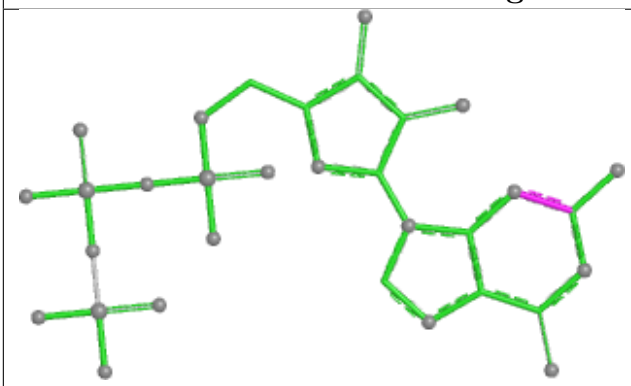


Rings

Ligand GTP PM 501



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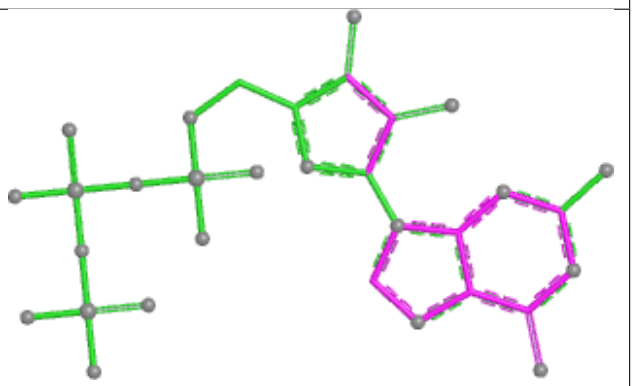

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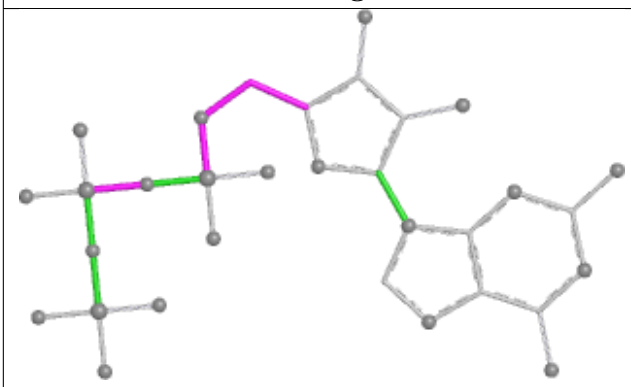
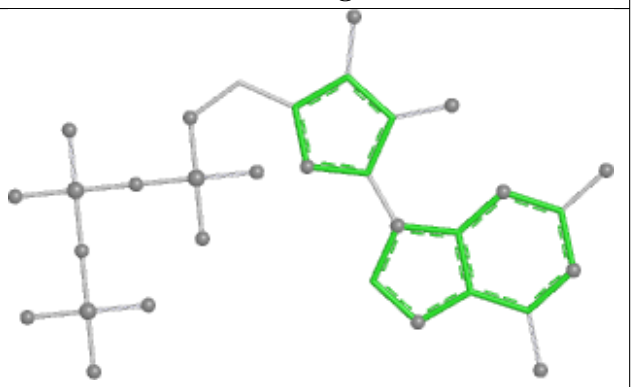
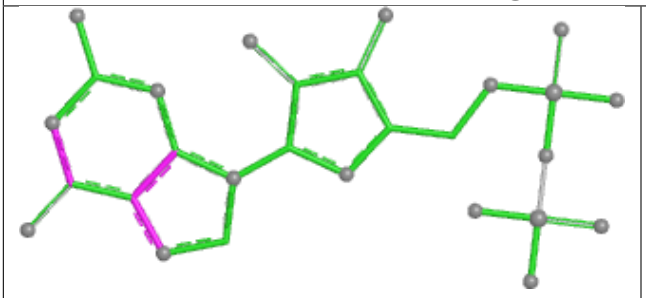


Torsions



Rings

Ligand GDP DH 502



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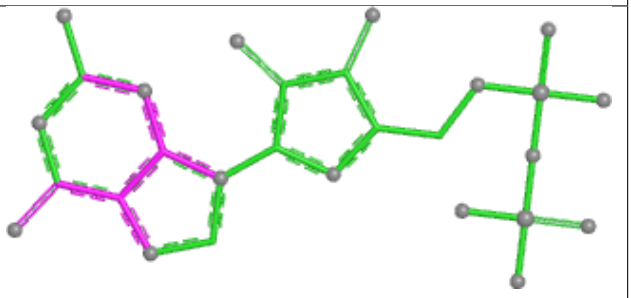

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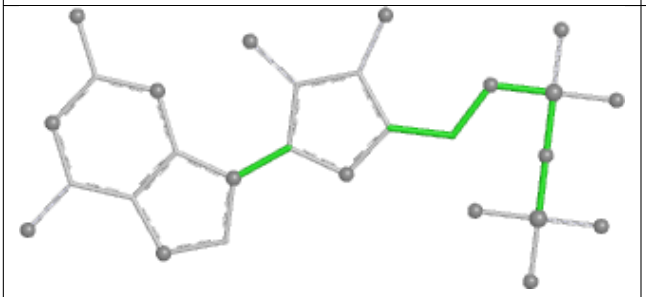

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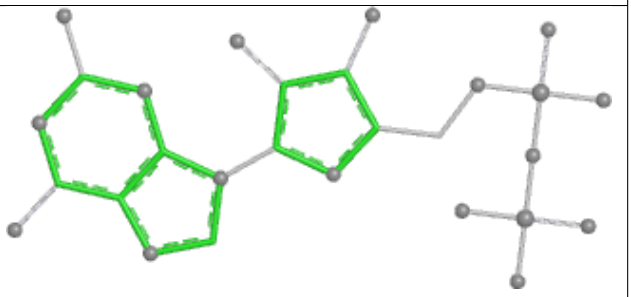
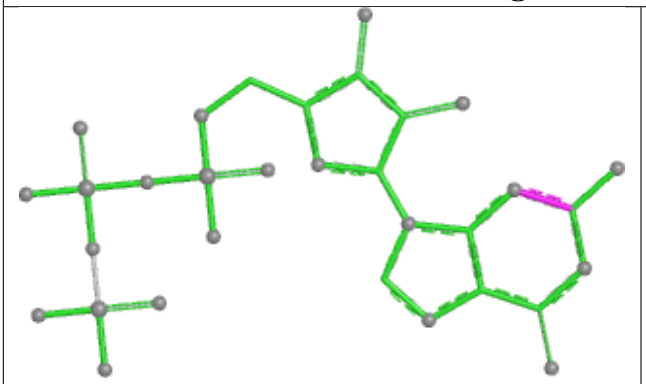


Rings

Ligand GTP CQ 501



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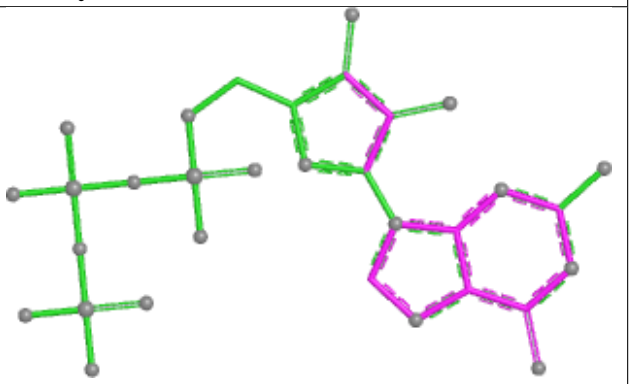

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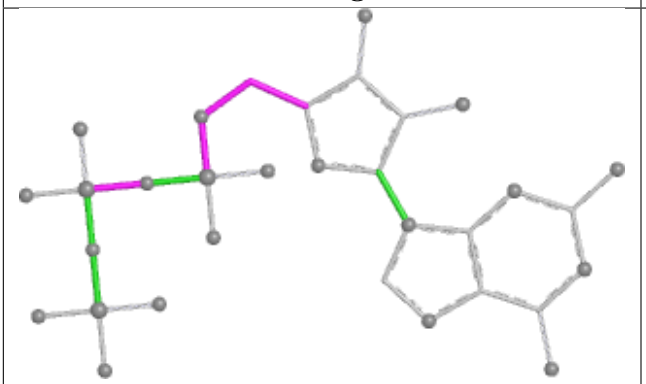

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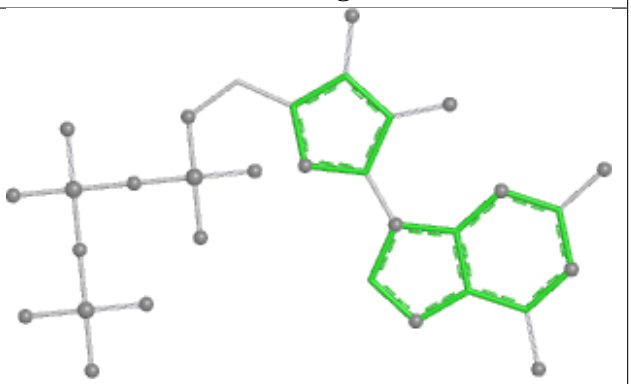
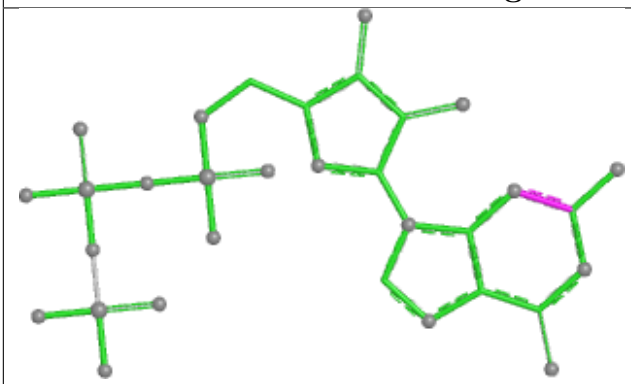


Rings

Ligand GTP GM 501



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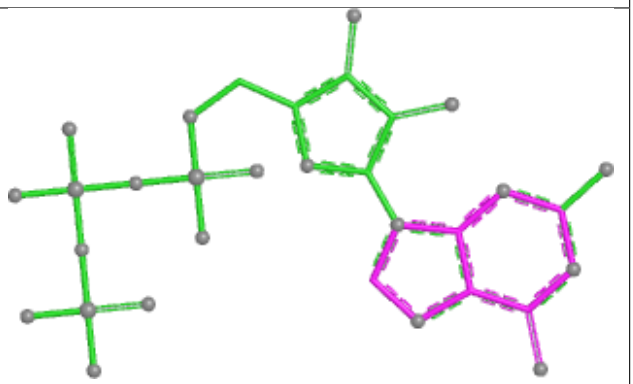

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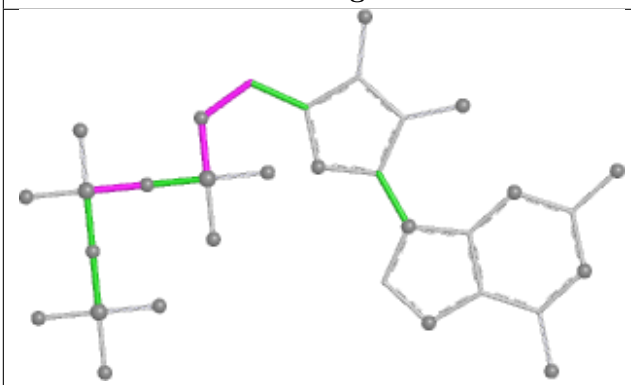

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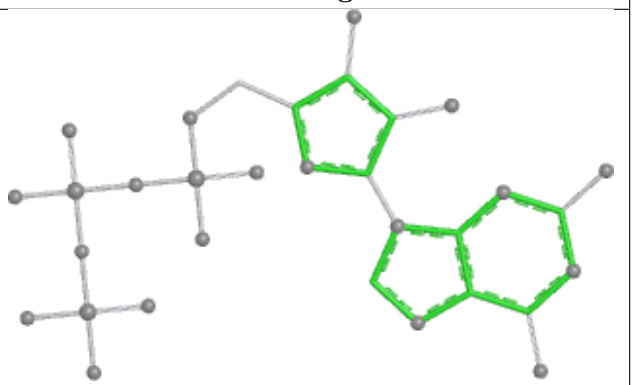
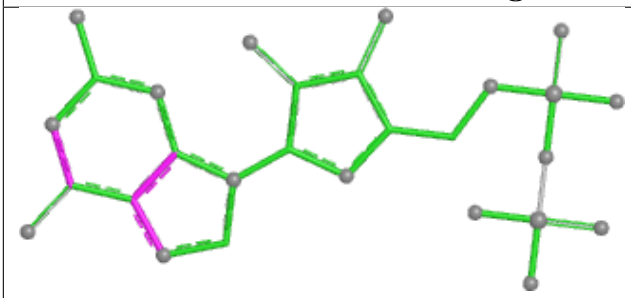


Rings

Ligand GDP RN 502



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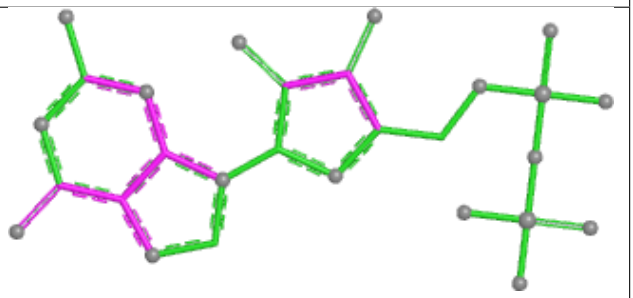

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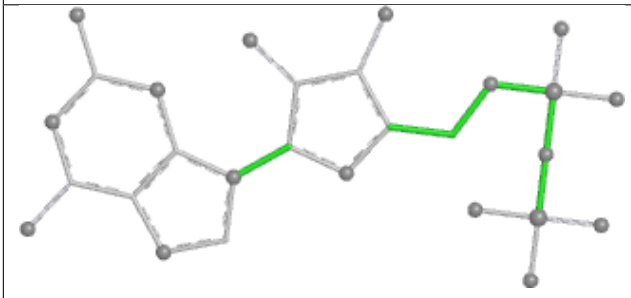

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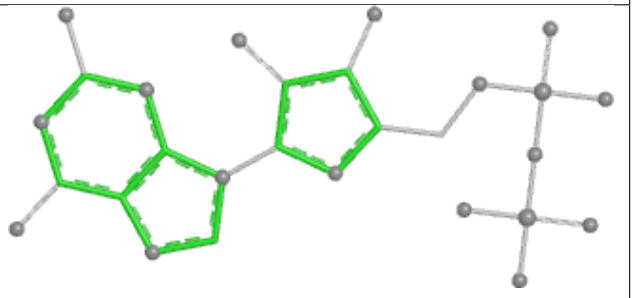

Rings

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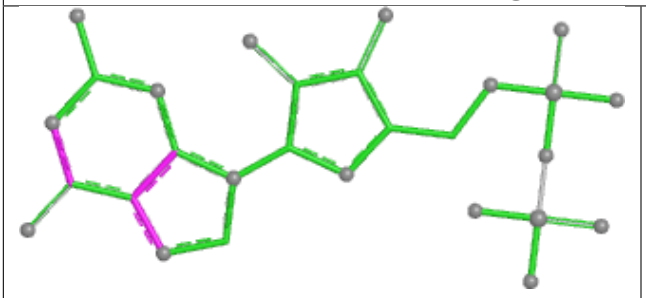

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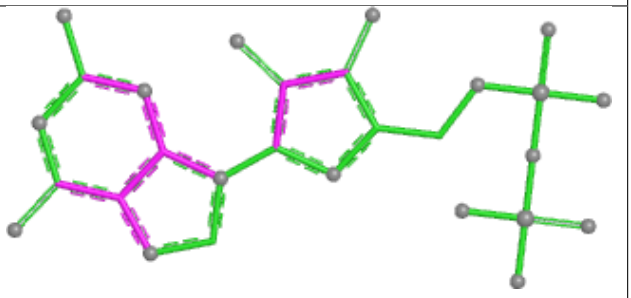

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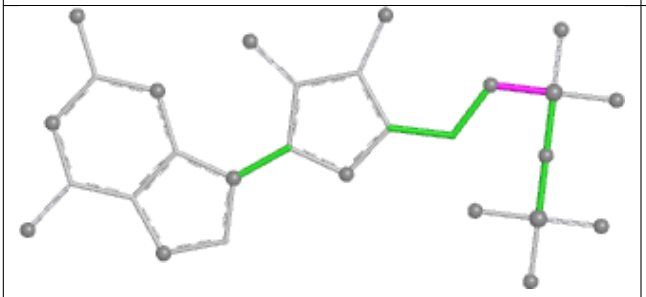

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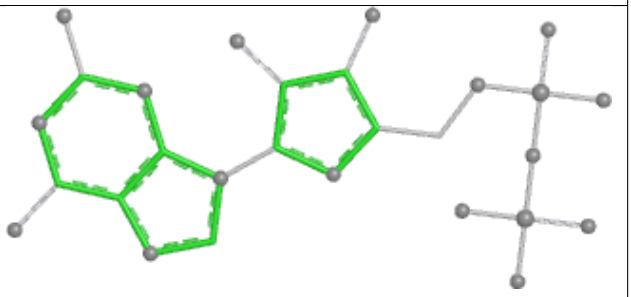
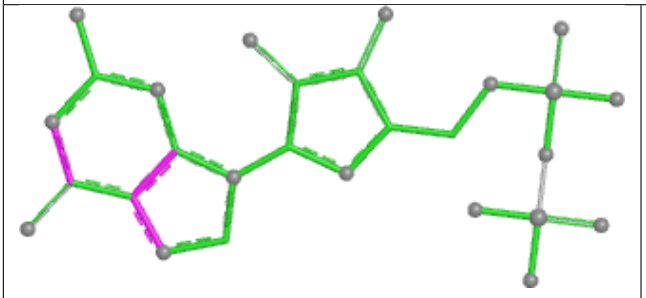


Rings

Ligand GDP KF 502



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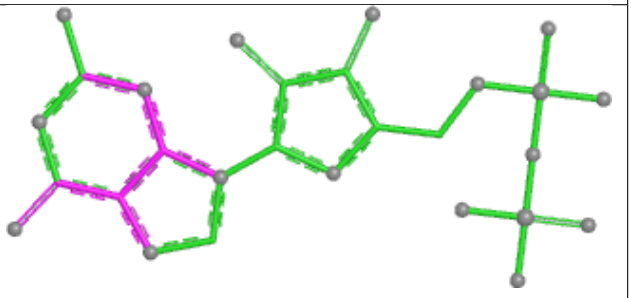

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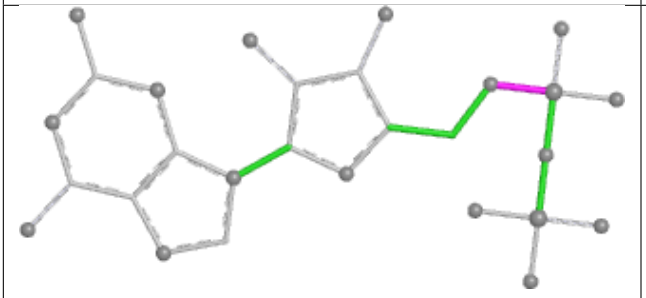

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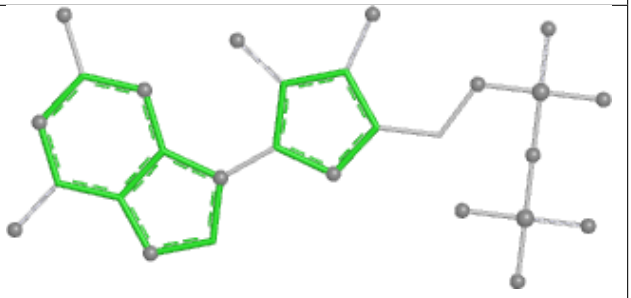
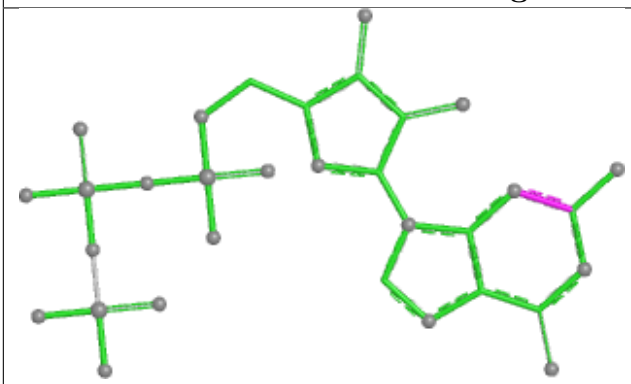


Rings

Ligand GTP WI 501



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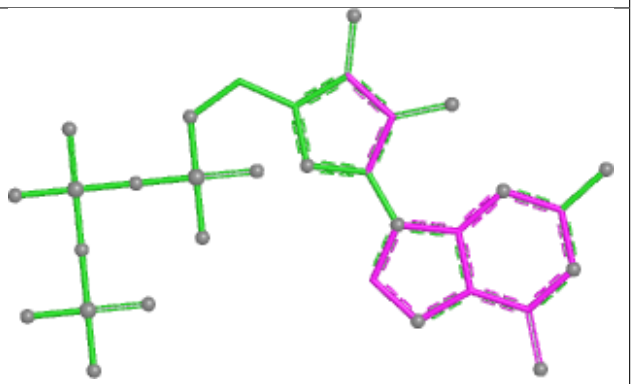

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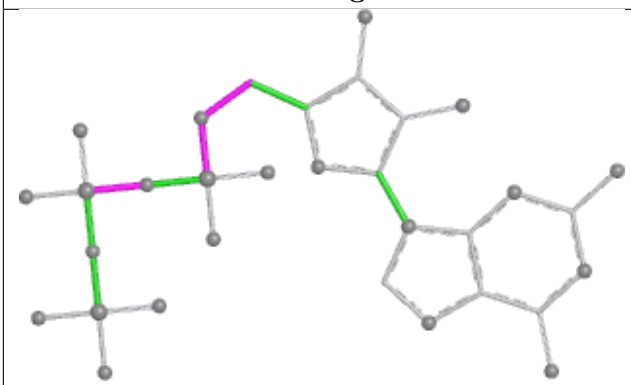

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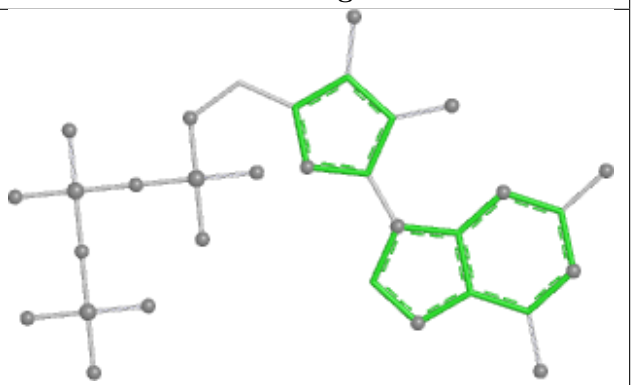
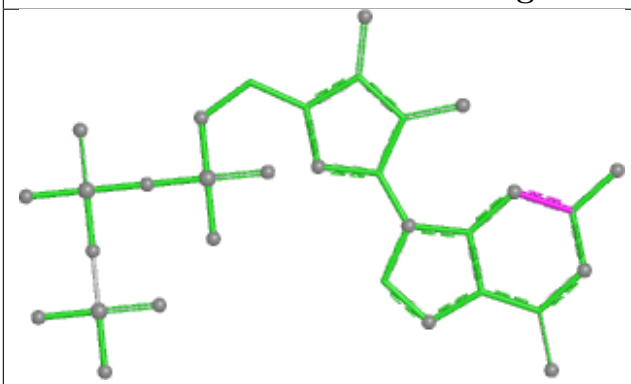


Rings

Ligand GTP PI 501



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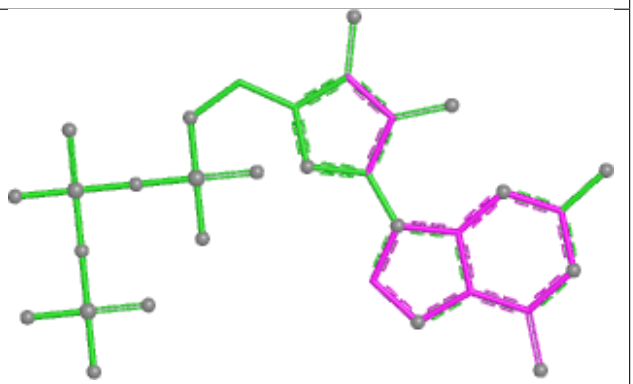

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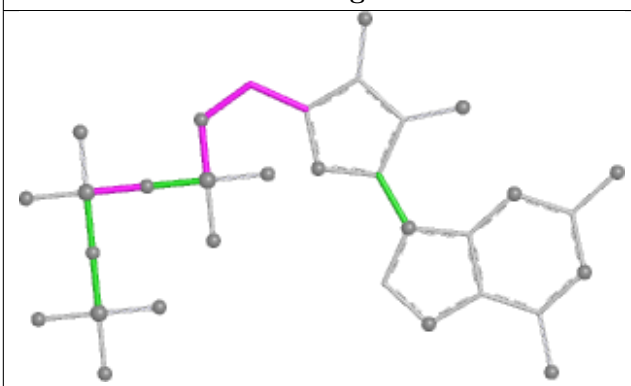

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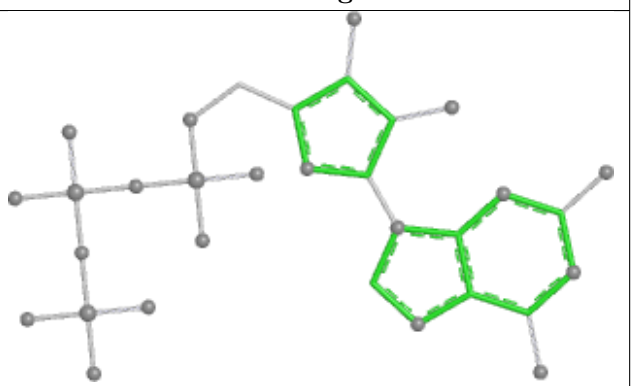

Rings

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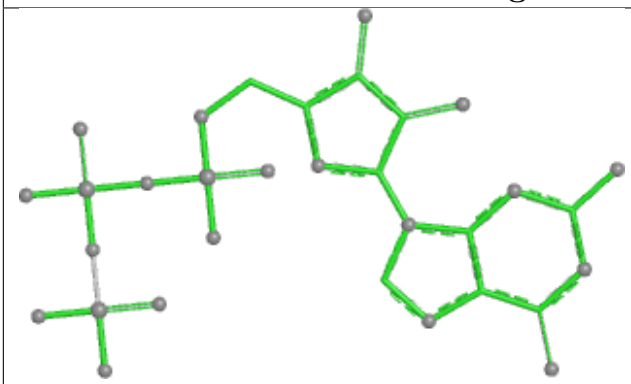

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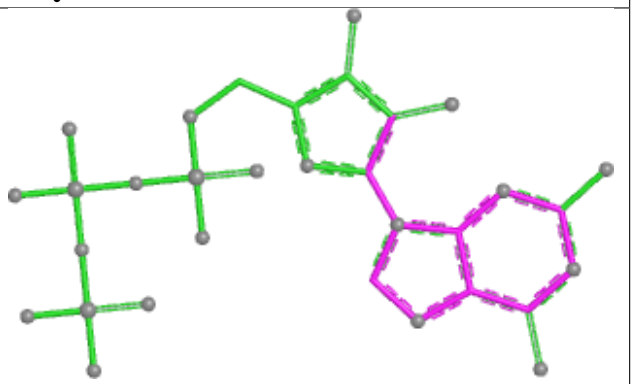

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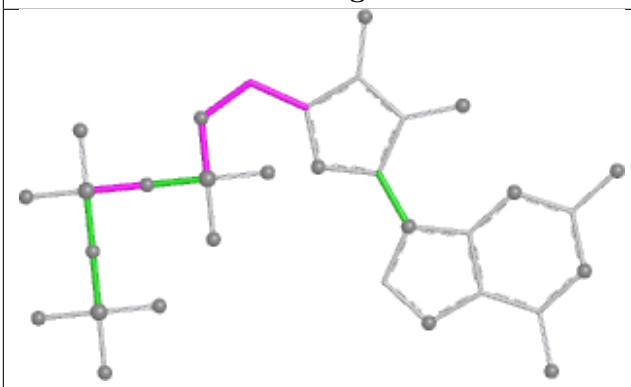

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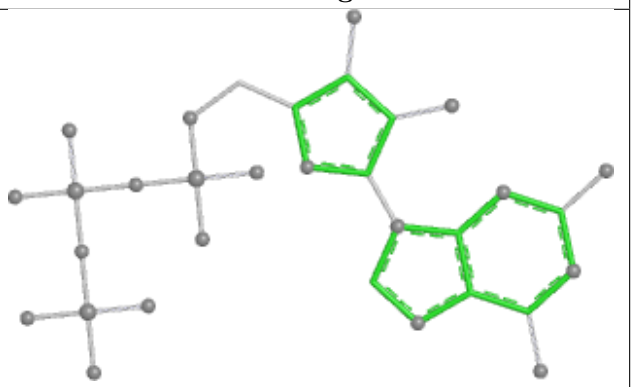

Rings

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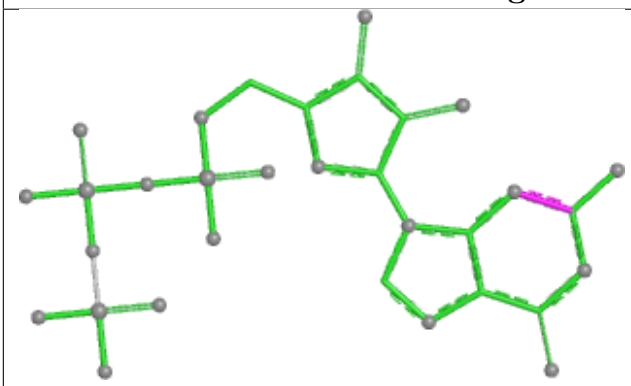

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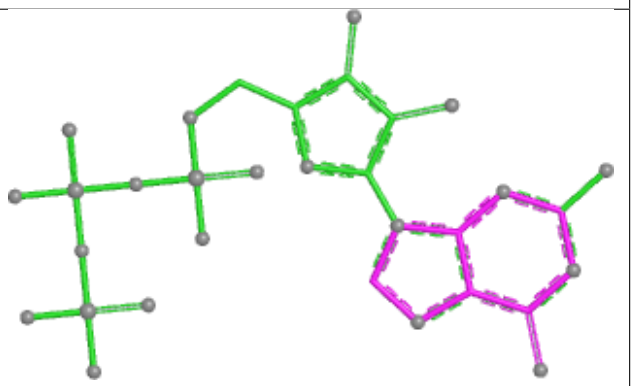

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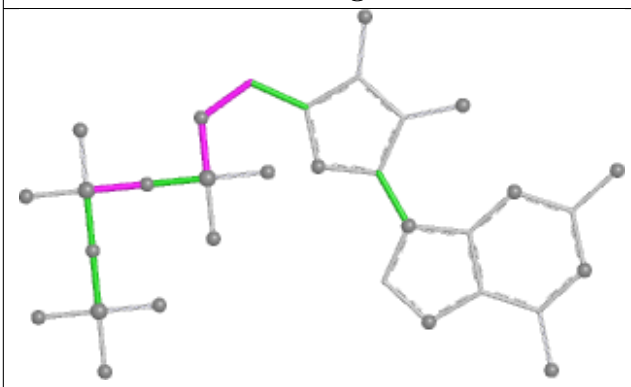

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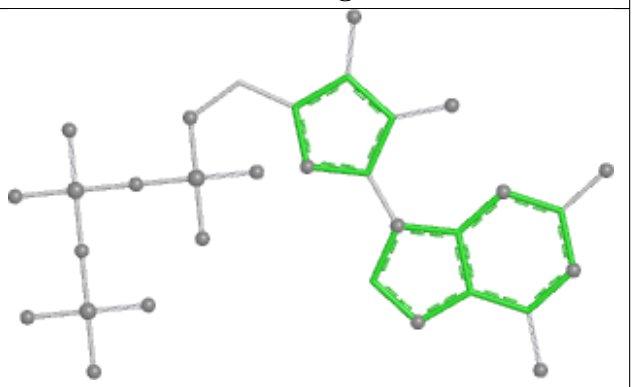
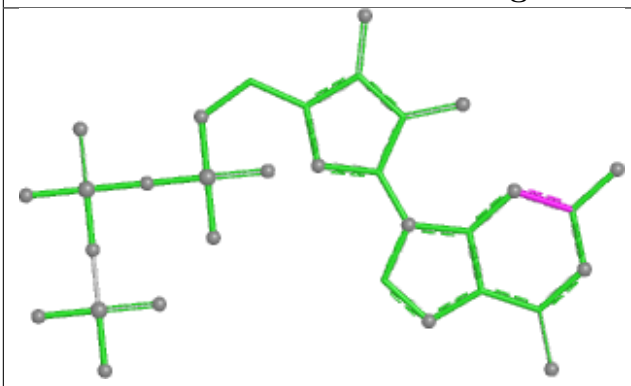


Rings

Ligand GTP UE 501



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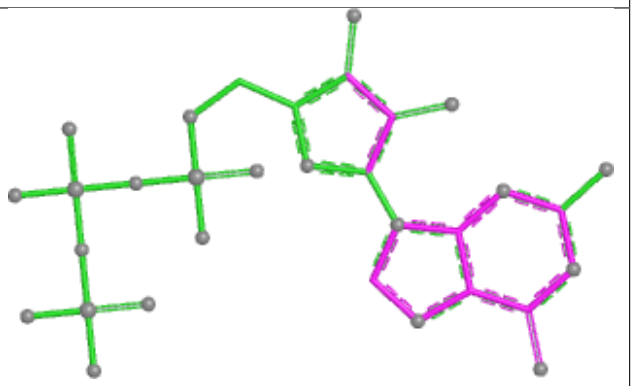
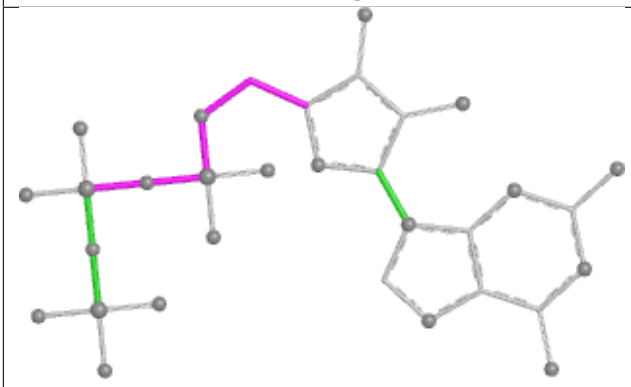


Bond angles



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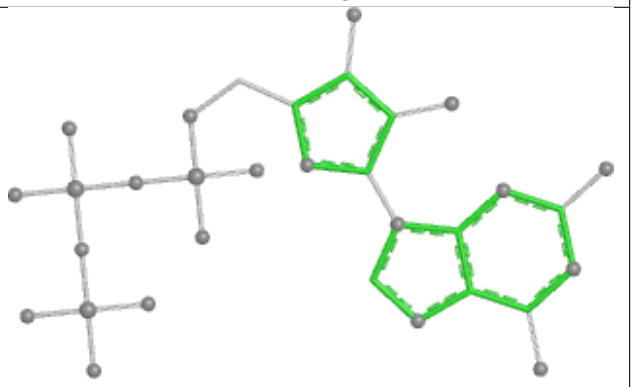
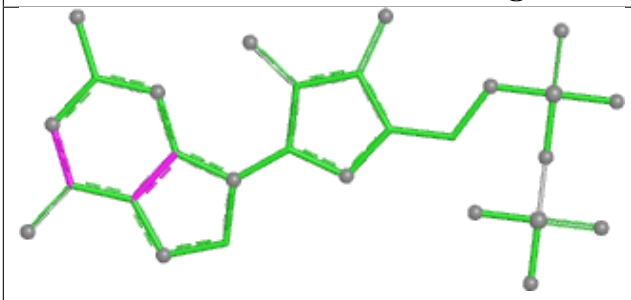


Rings

Ligand GDP GB 502



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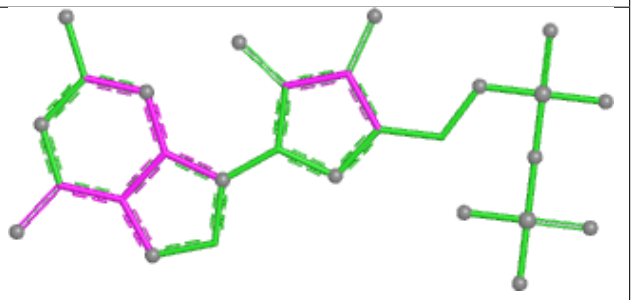

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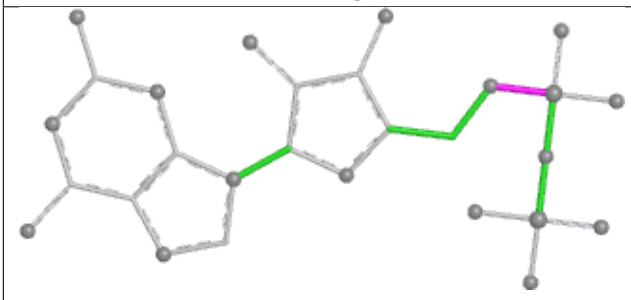

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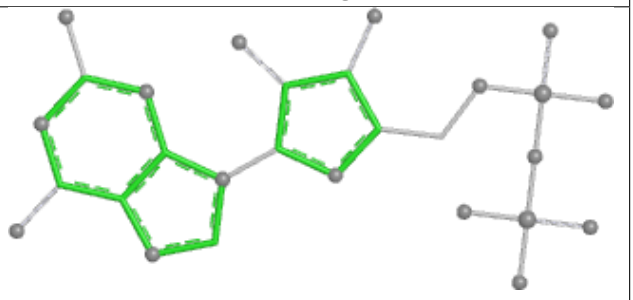
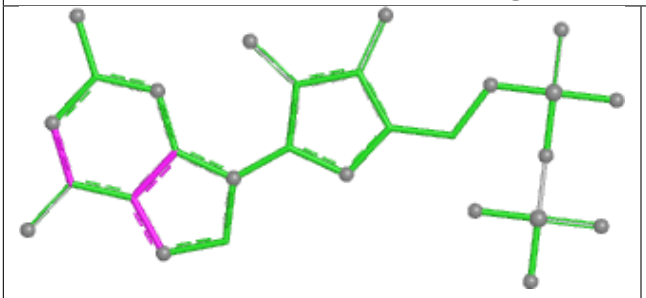


Rings

Ligand GDP VD 502



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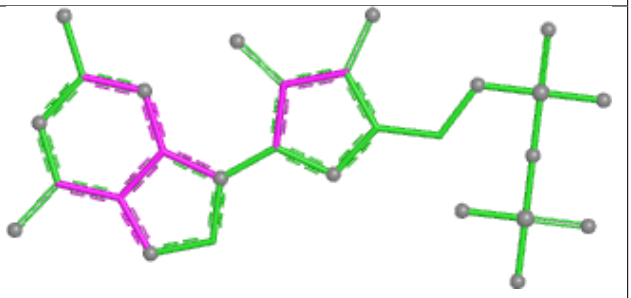

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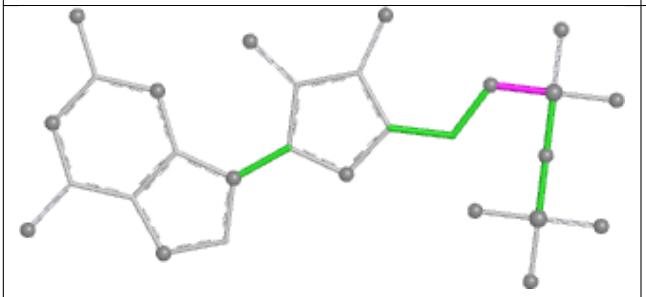

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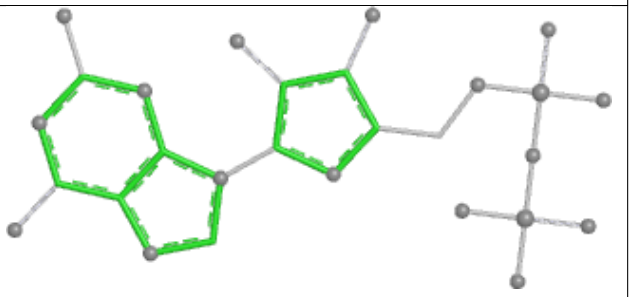
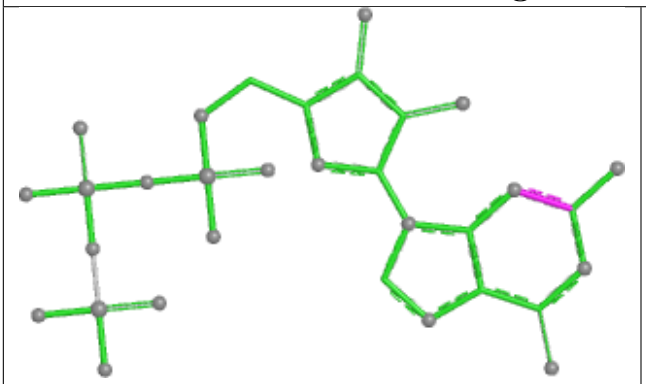


Rings

Ligand GTP PE 501



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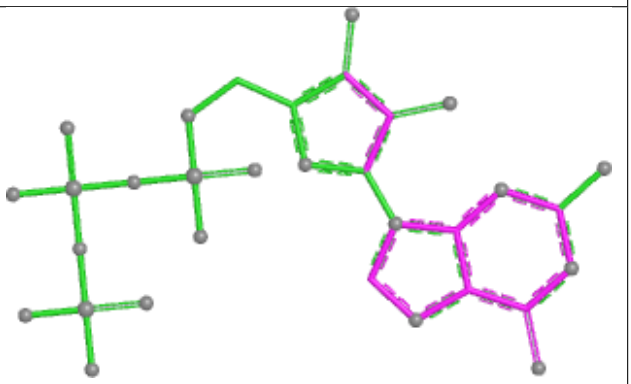

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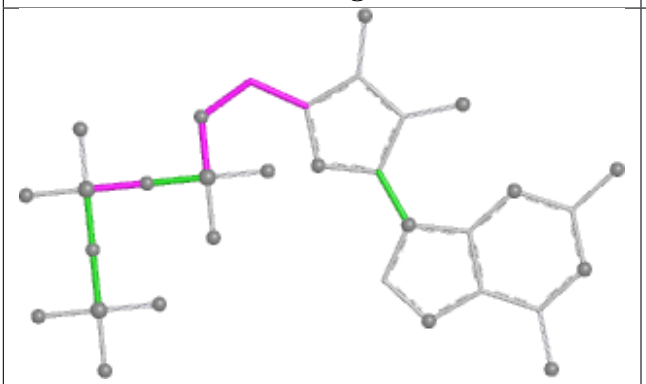
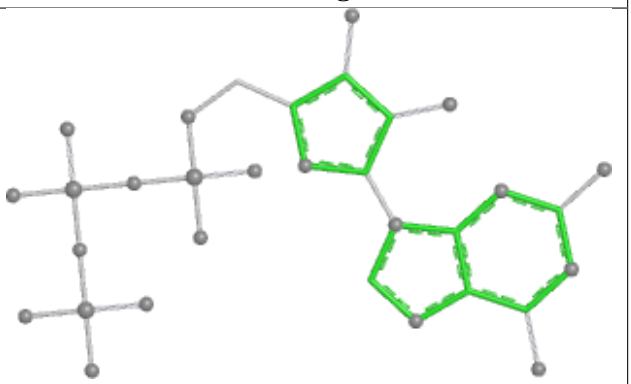
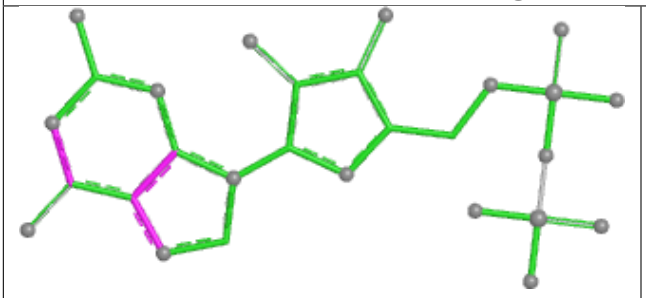


Torsions



Rings

Ligand GDP LN 502



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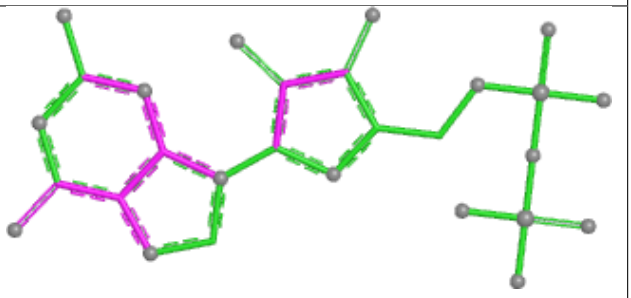

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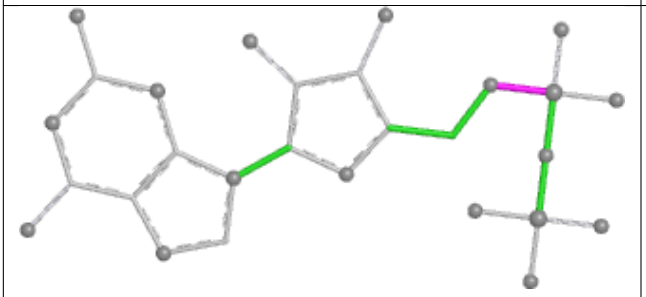

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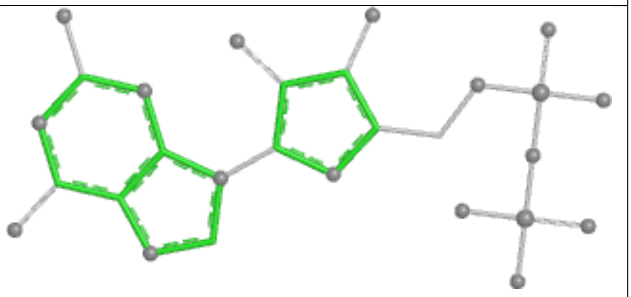
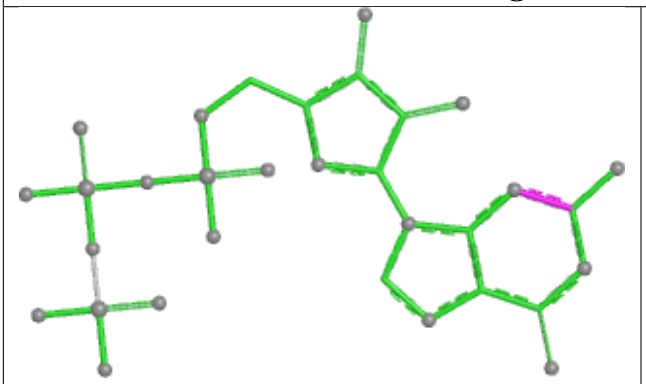


Rings

Ligand GTP OK 501



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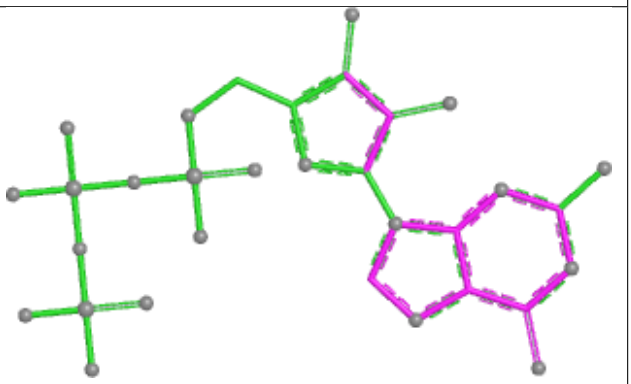

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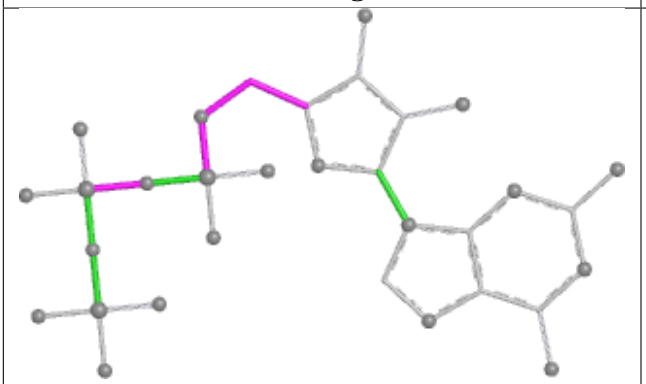

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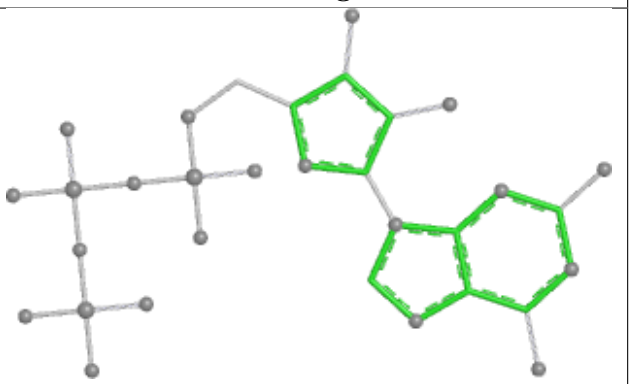
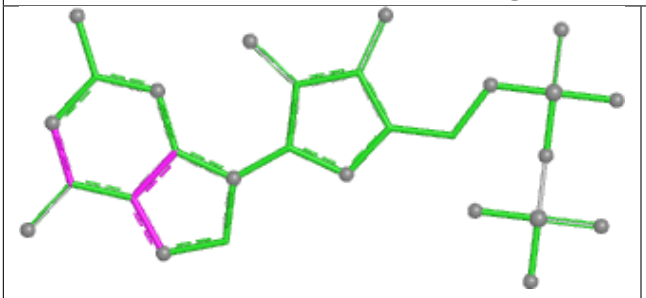


Rings

Ligand GDP MF 502



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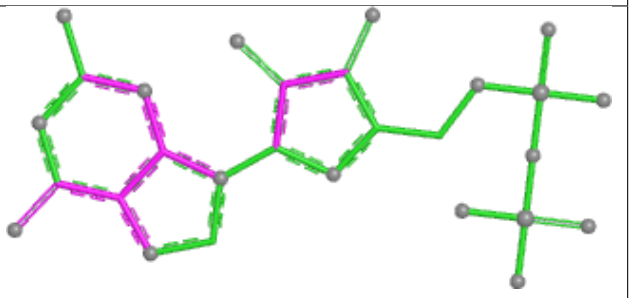

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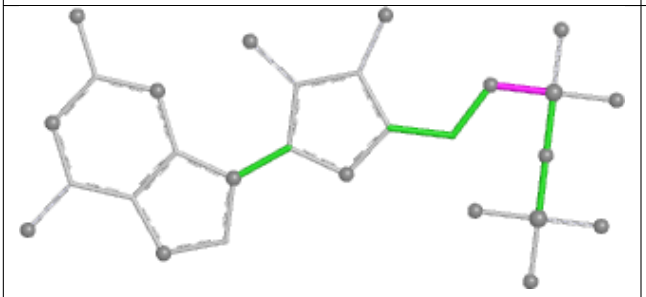

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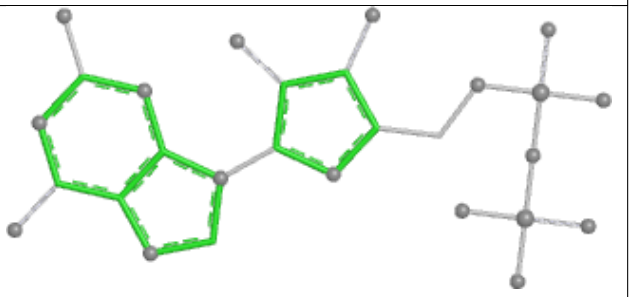

Rings

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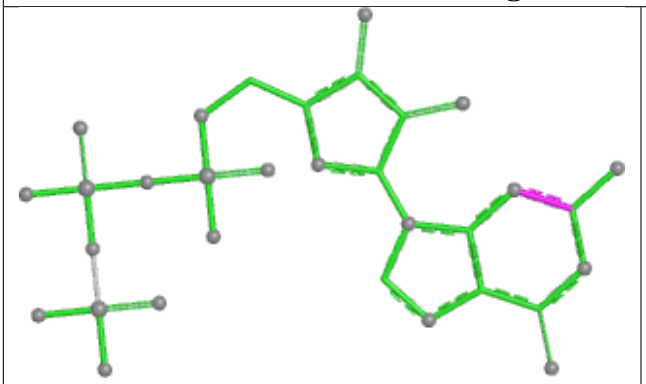

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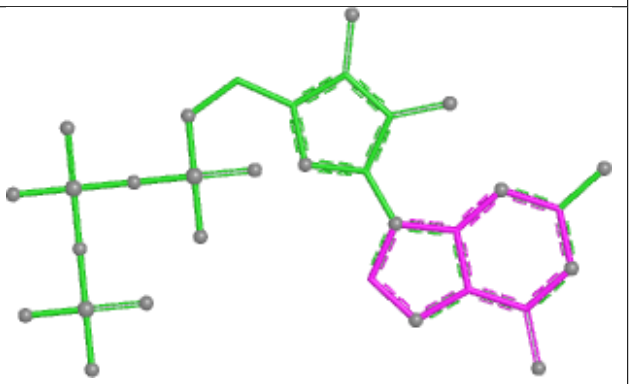

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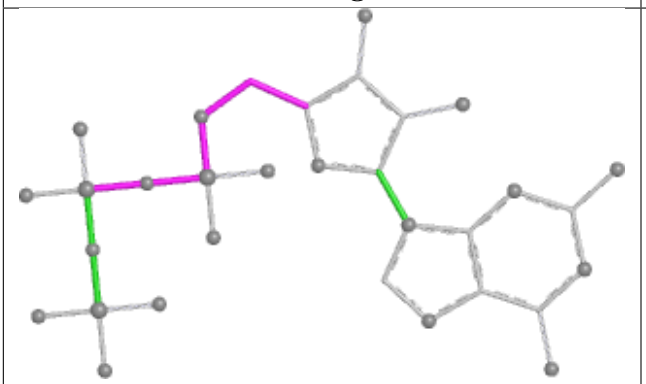

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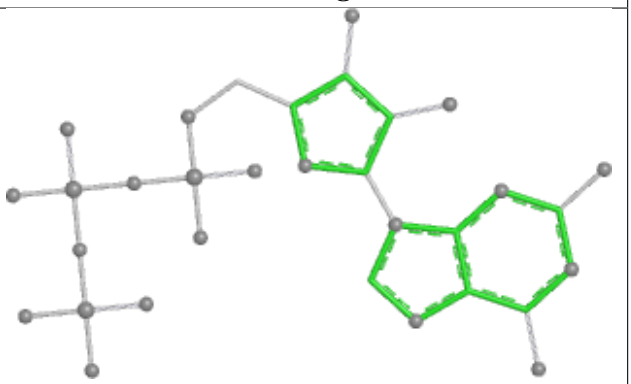

Rings

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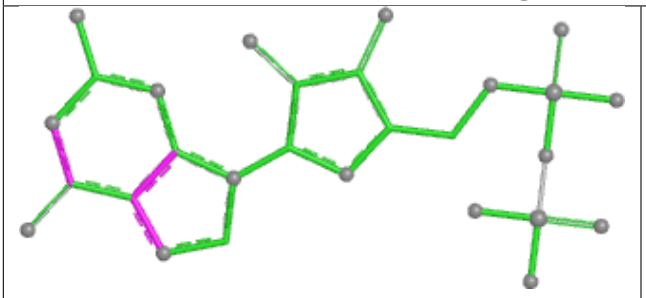

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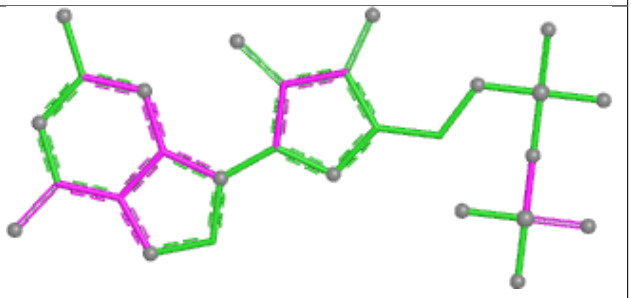

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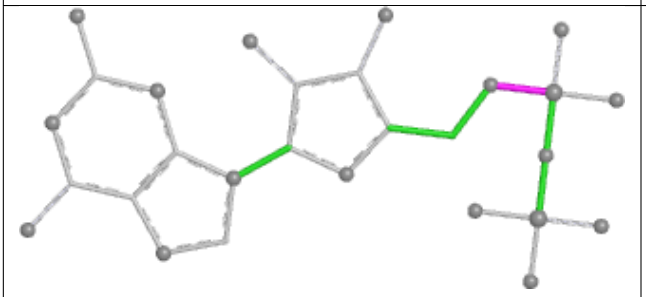

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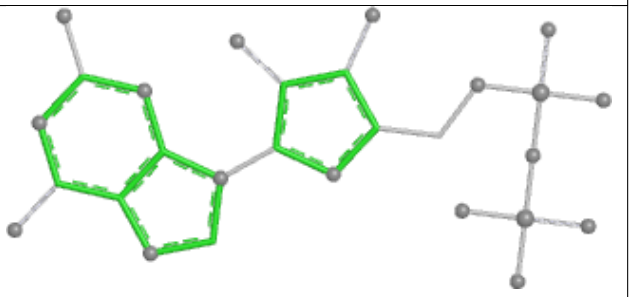

Rings

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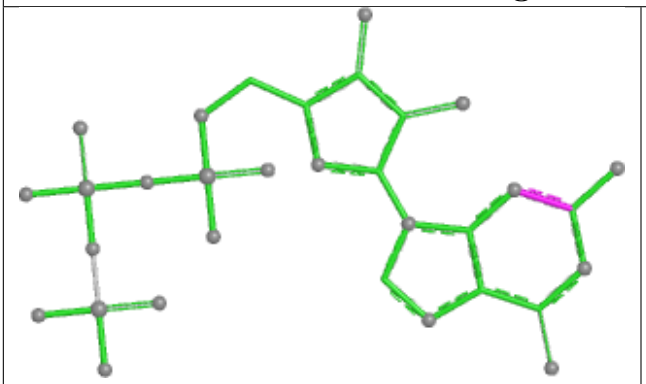

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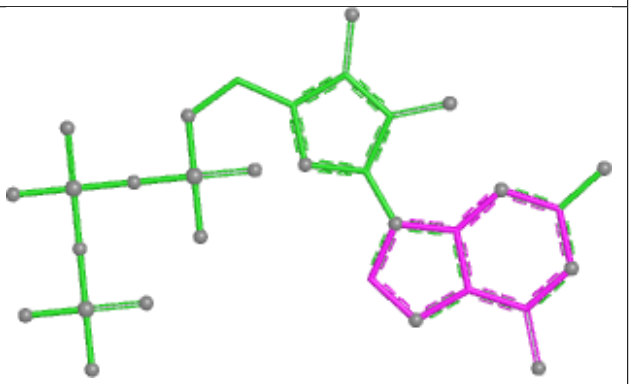

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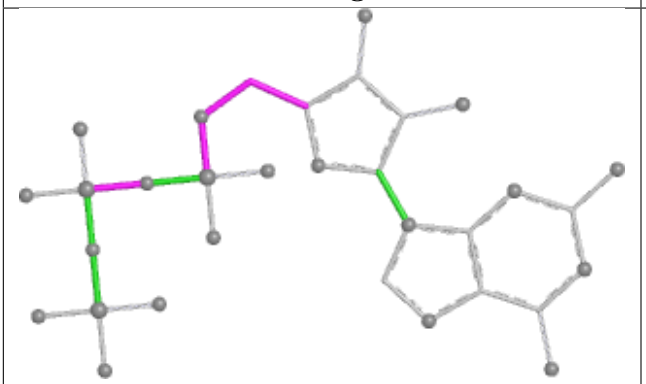

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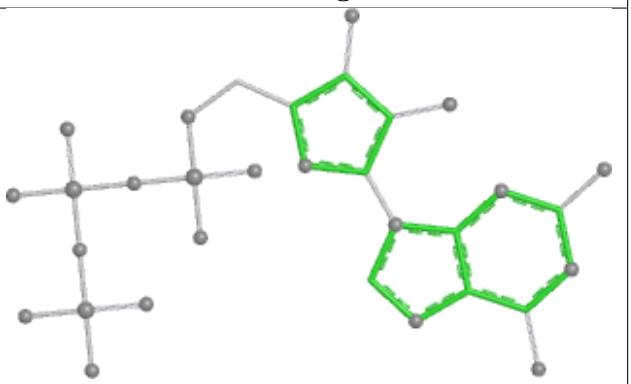

Rings

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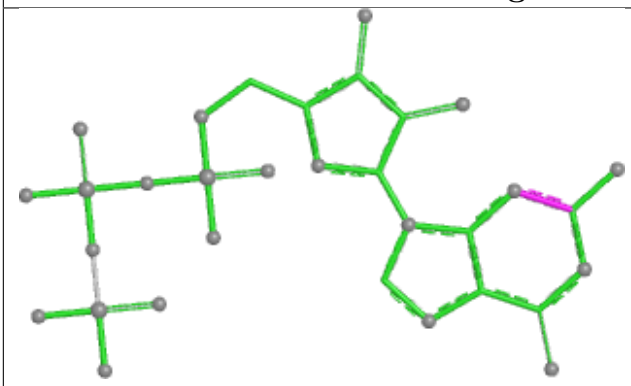

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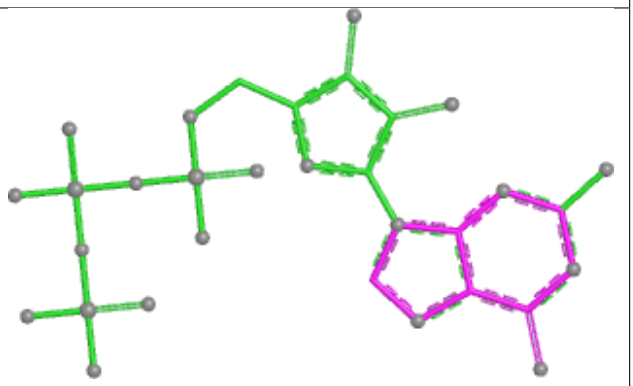

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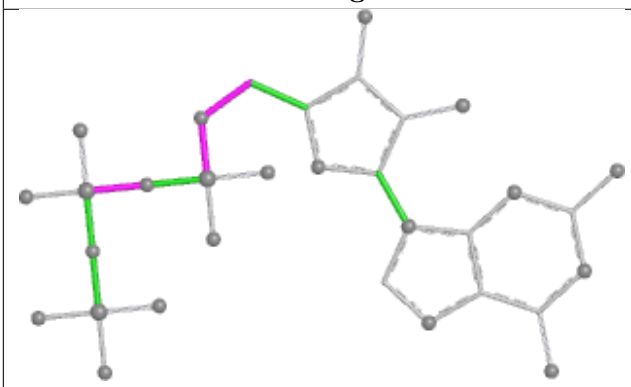

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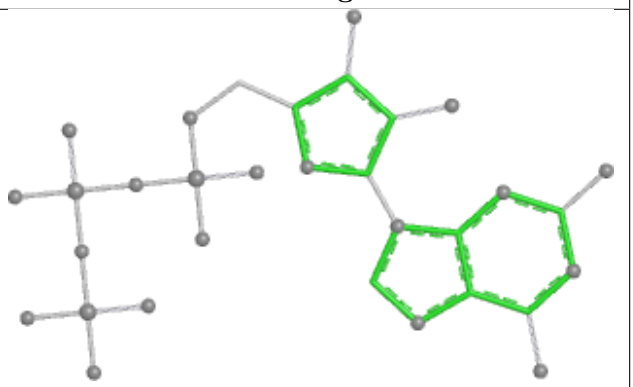

Rings

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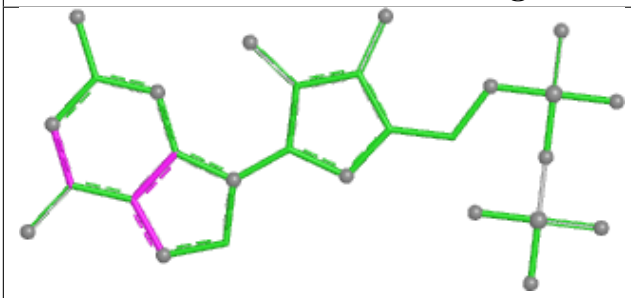

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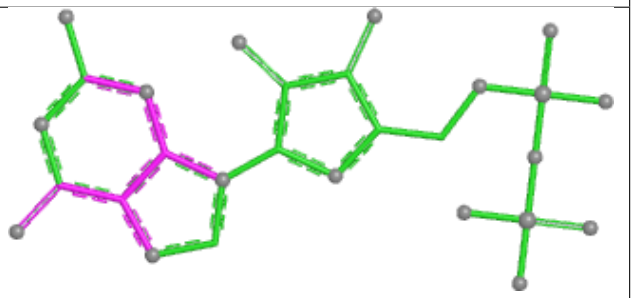

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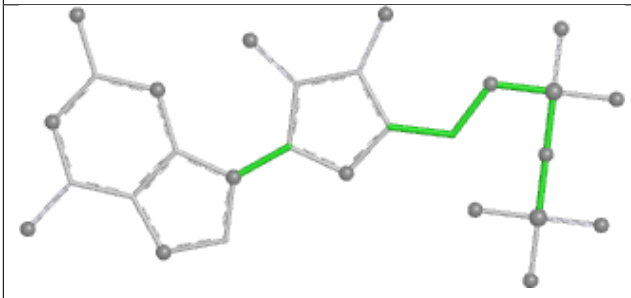

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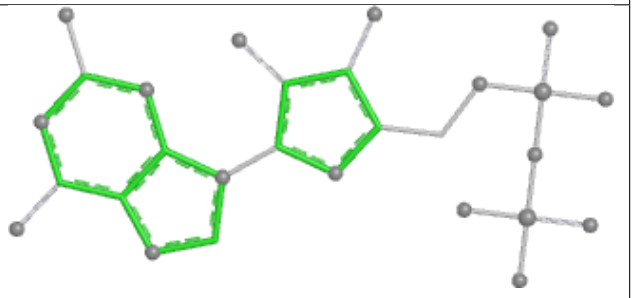

Rings

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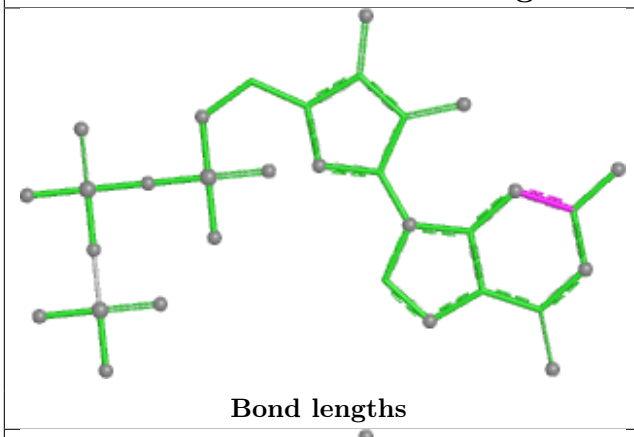

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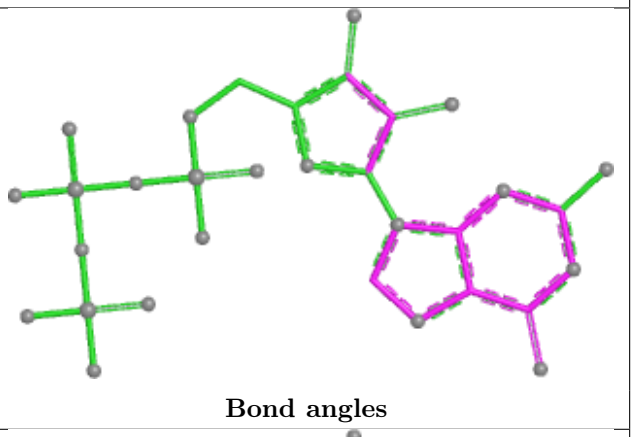

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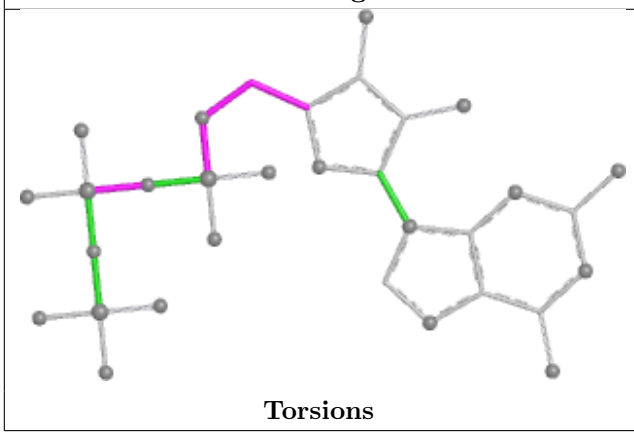

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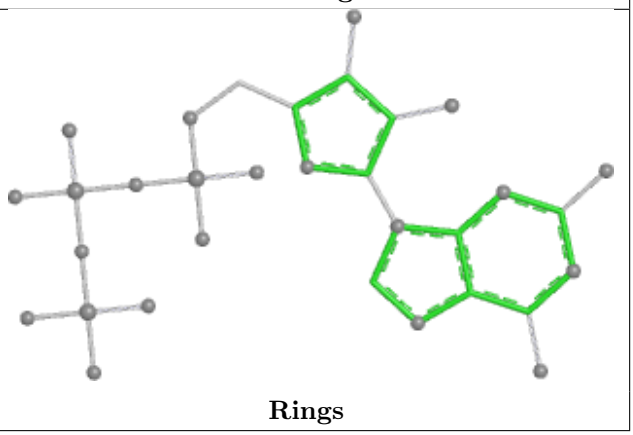

Rings

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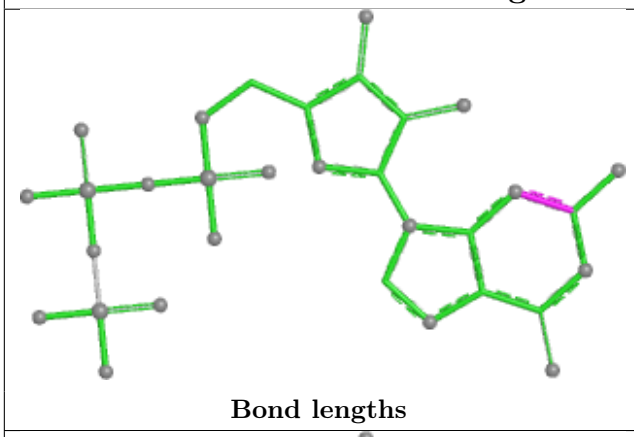

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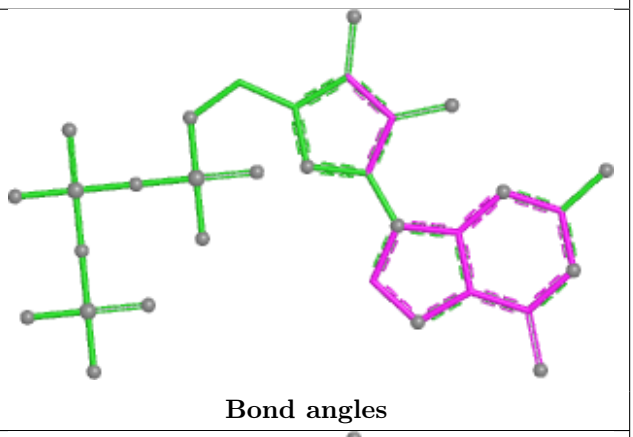

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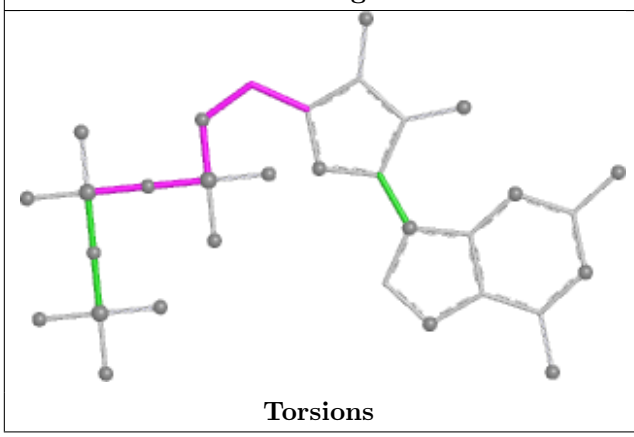

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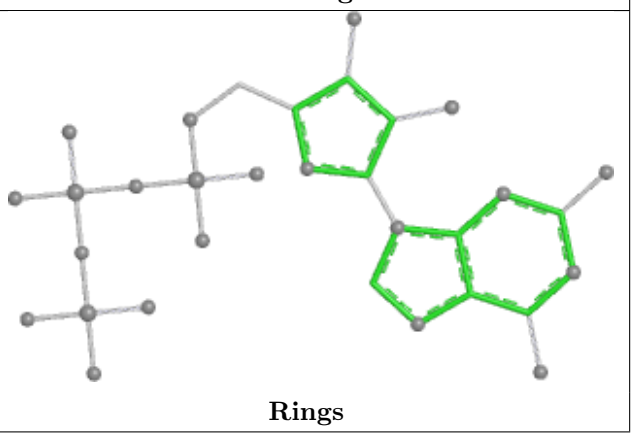
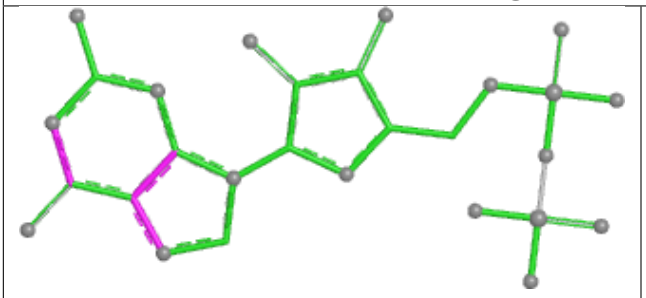


Rings

Ligand GDP RH 502



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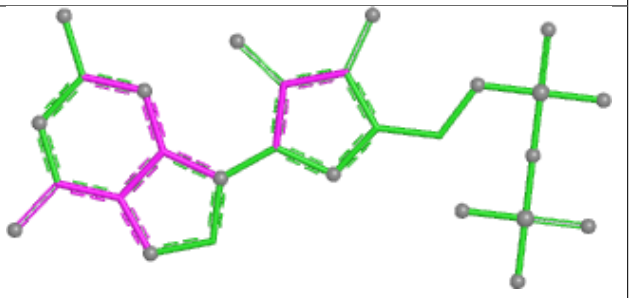

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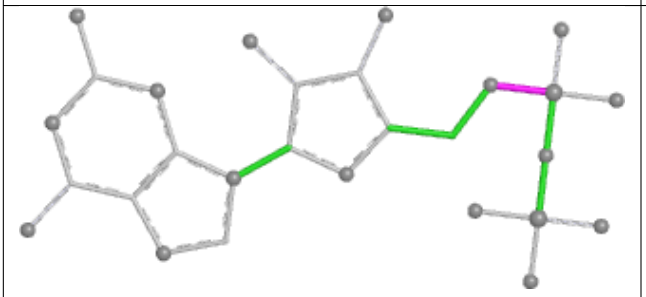

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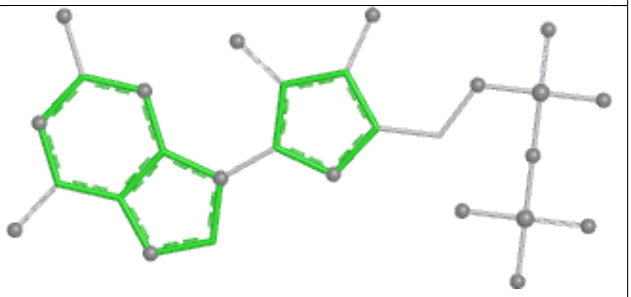

Rings

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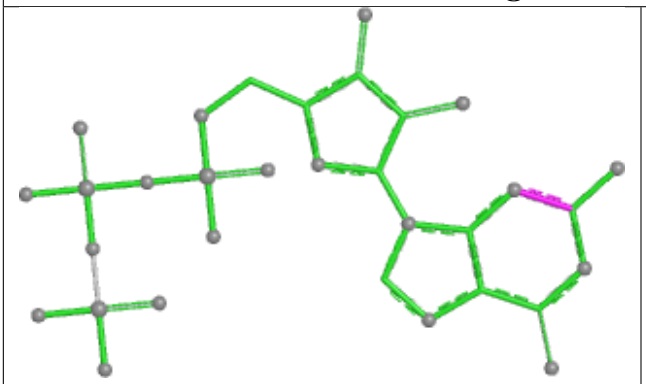

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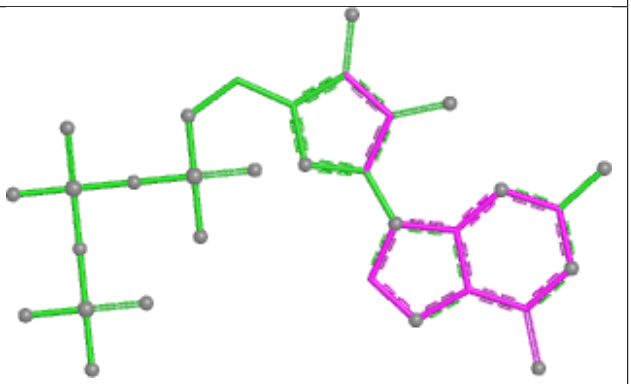

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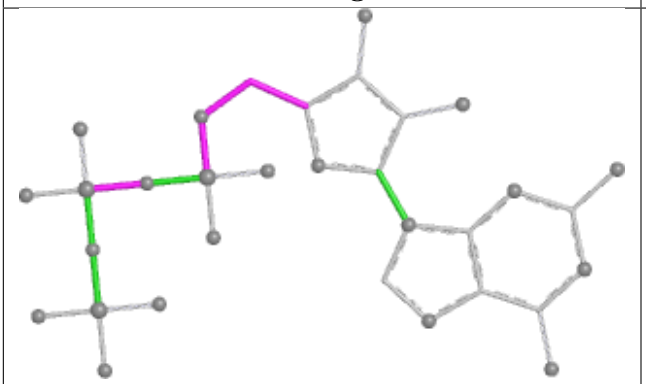

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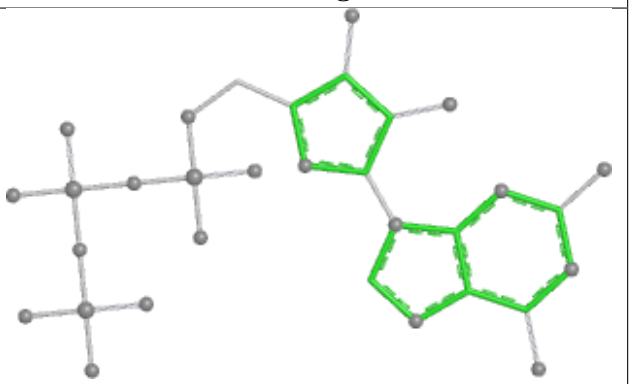
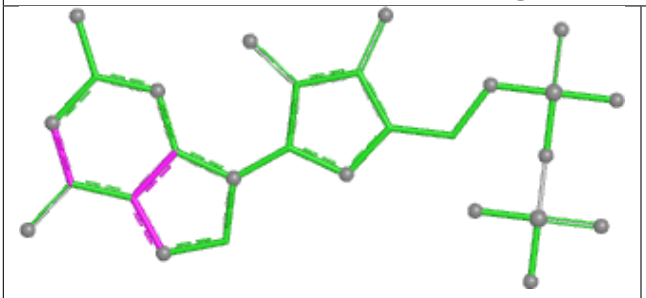


Rings

Ligand GDP FF 502



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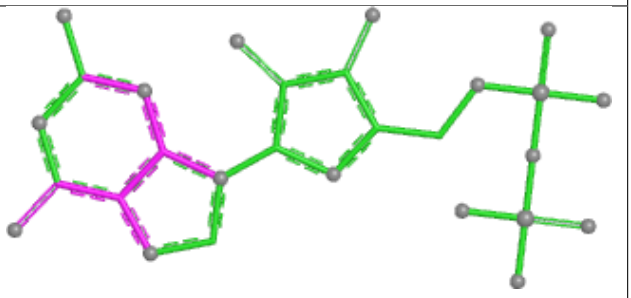

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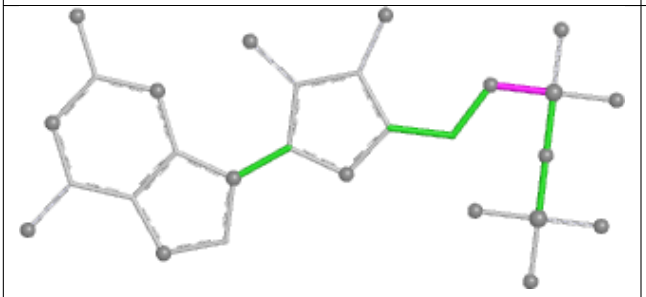

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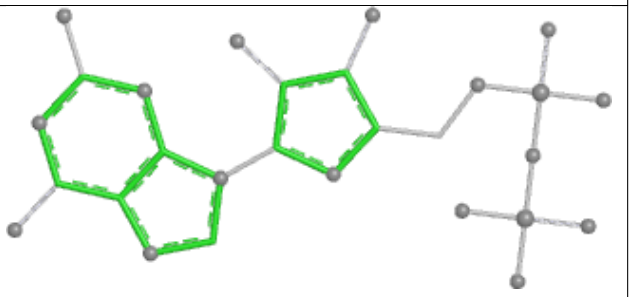
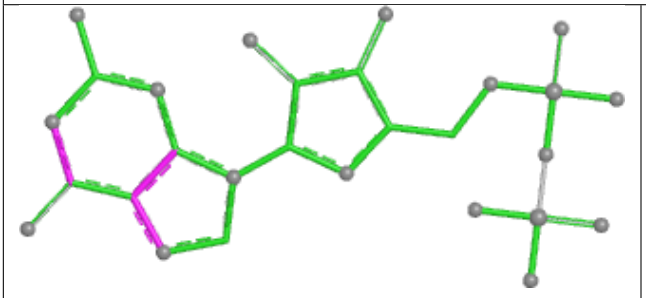


Rings

Ligand GDP RJ 502



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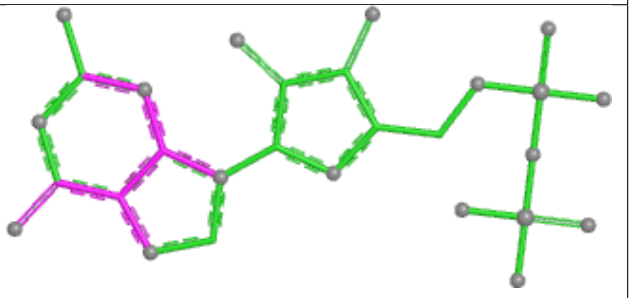

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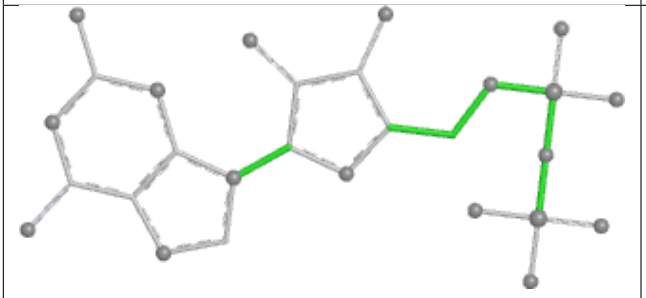
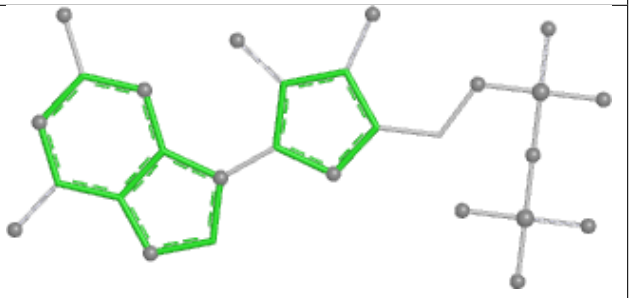
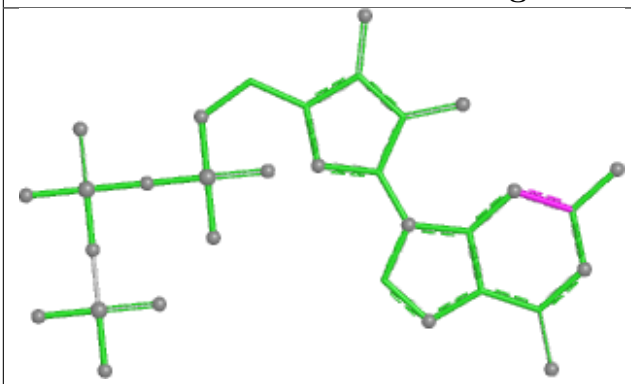


Torsions



Rings

Ligand GTP JM 501



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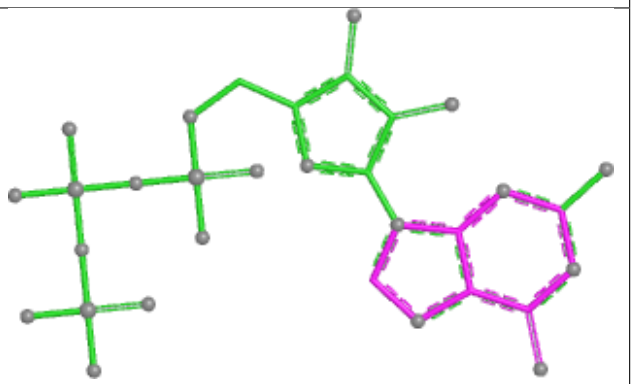

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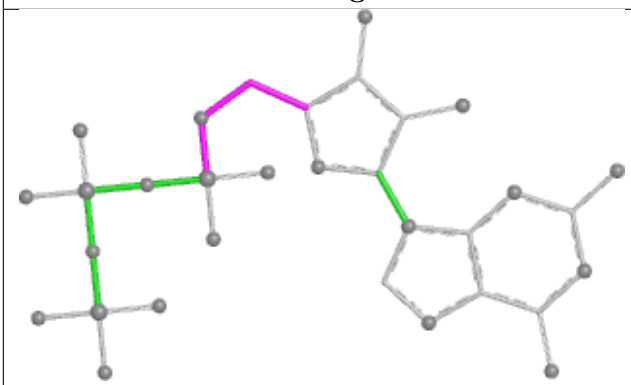

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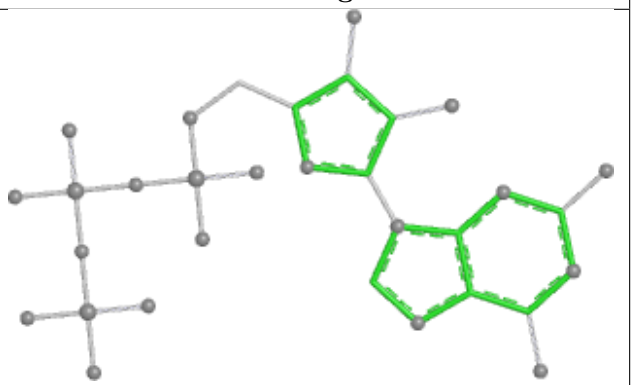
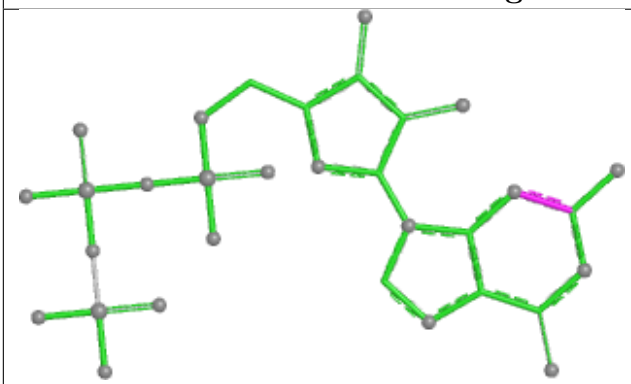


Rings

Ligand GTP MO 501



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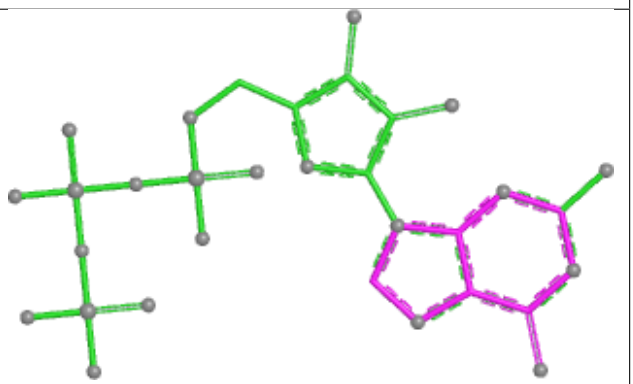

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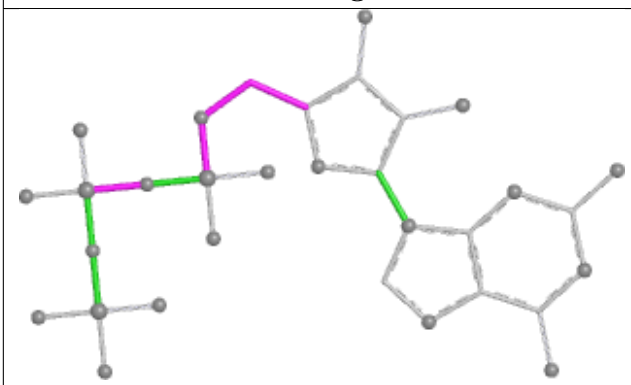

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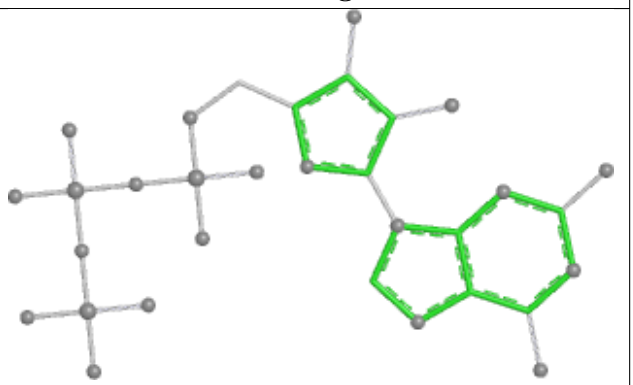
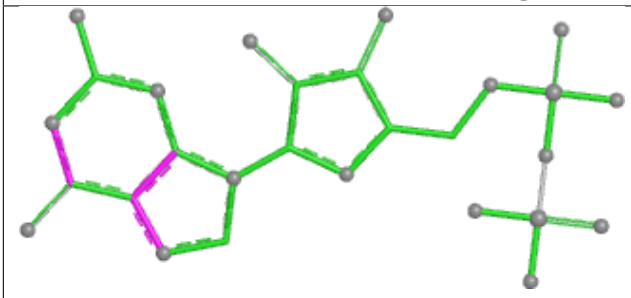


Rings

Ligand GDP SJ 502



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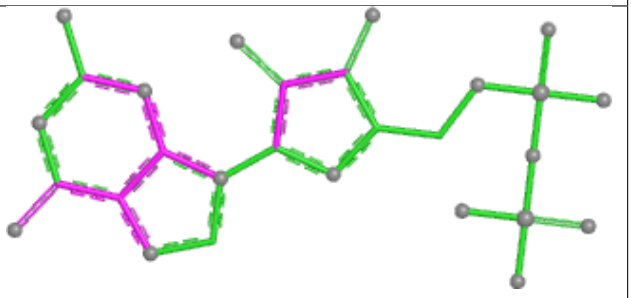

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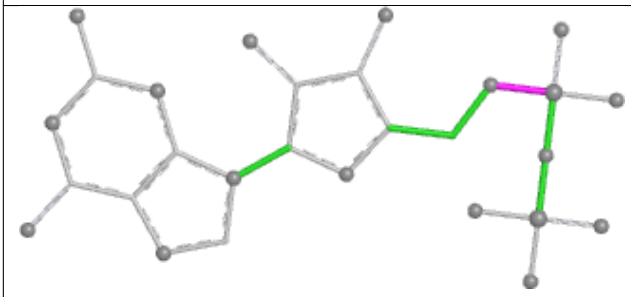

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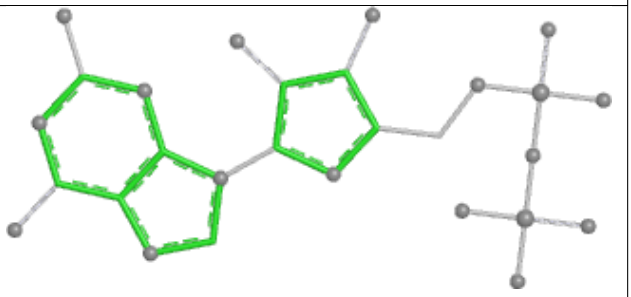
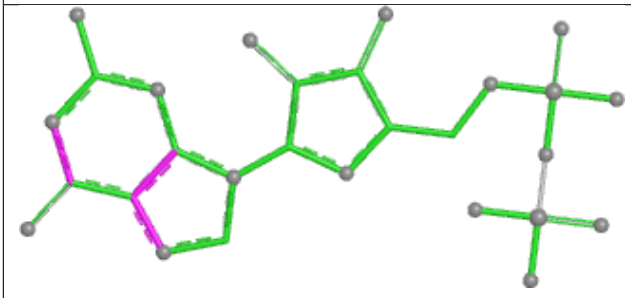


Rings

Ligand GDP DJ 502



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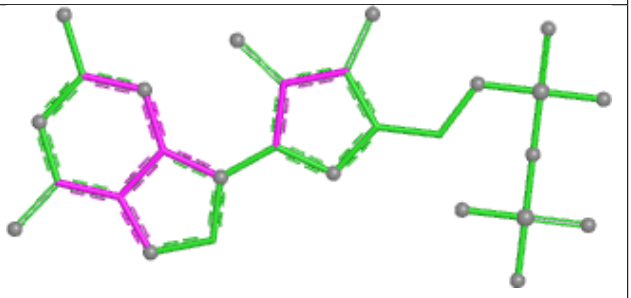

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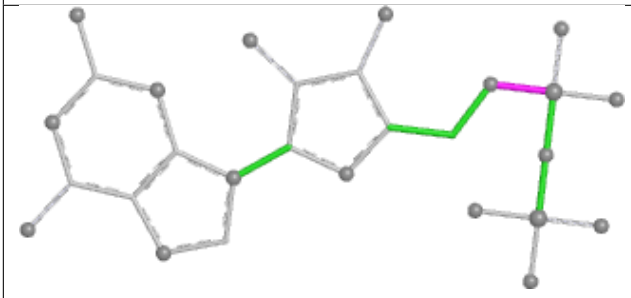

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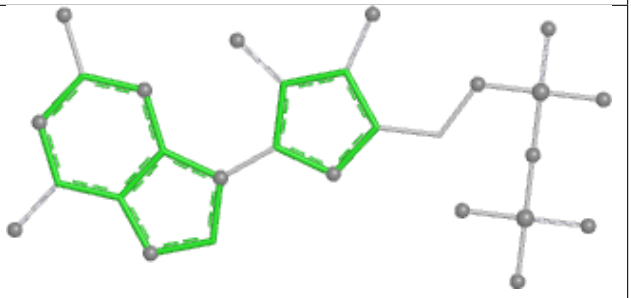

Rings

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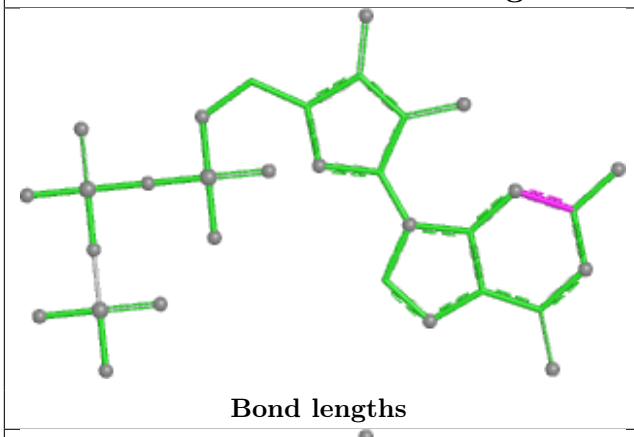

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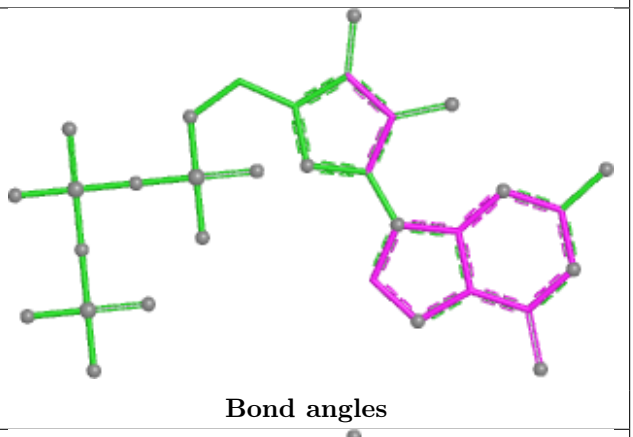

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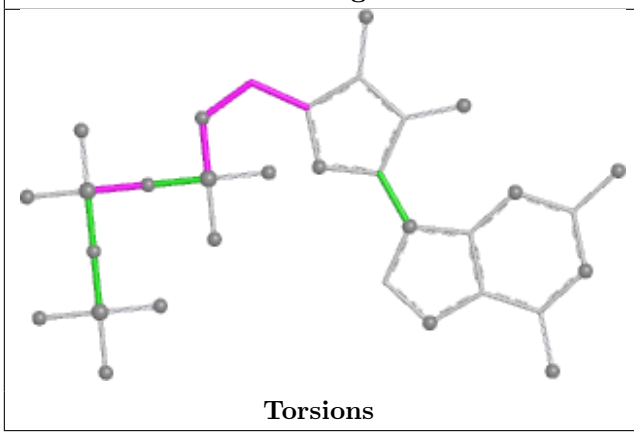

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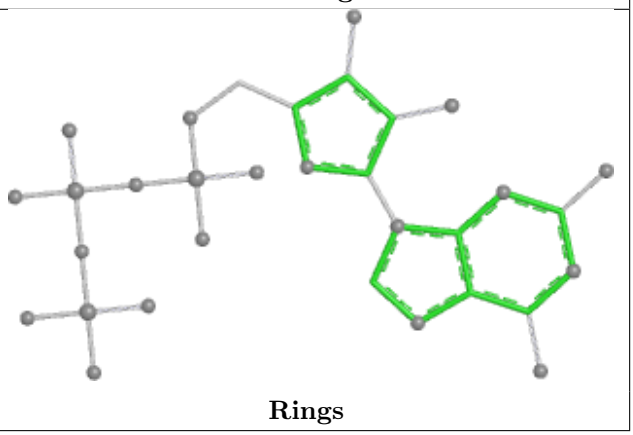

Rings

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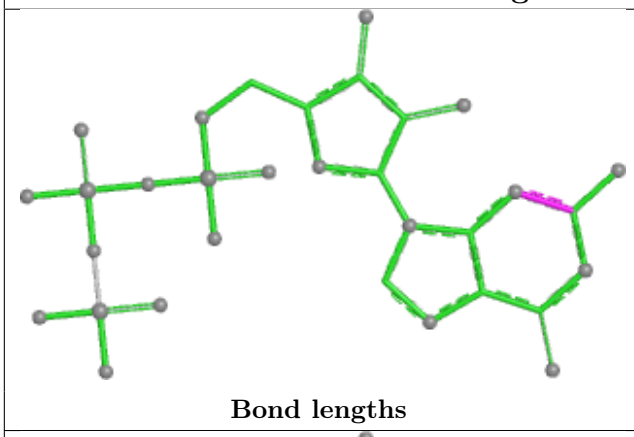

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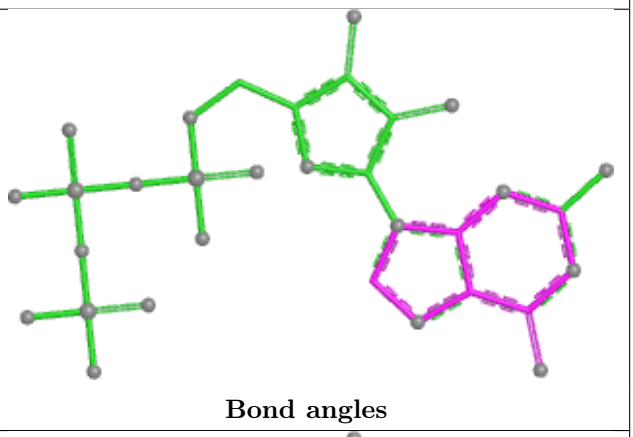

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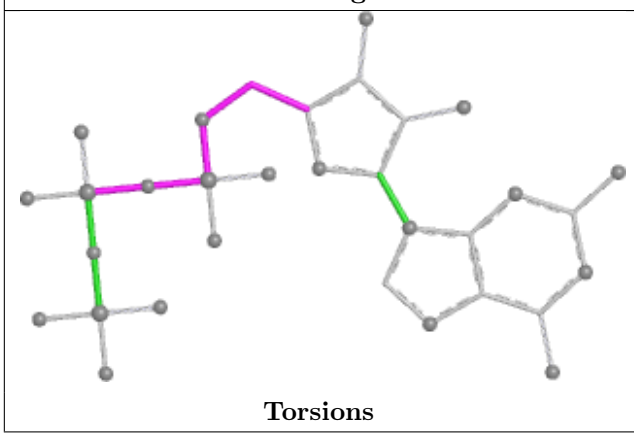

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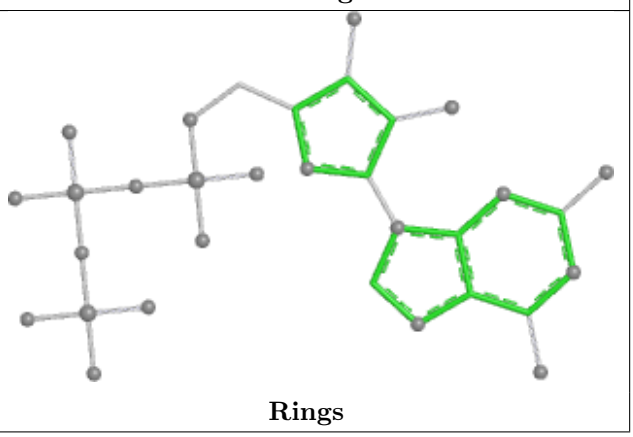

Rings

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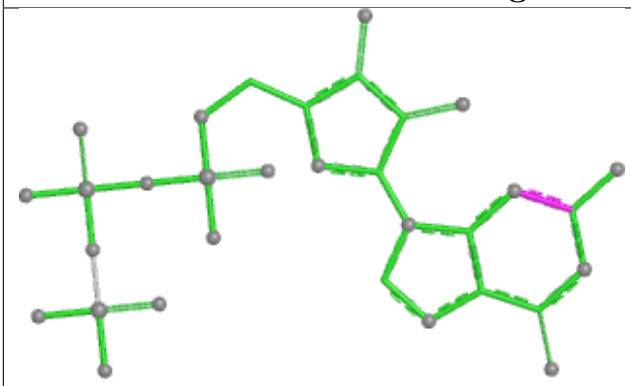

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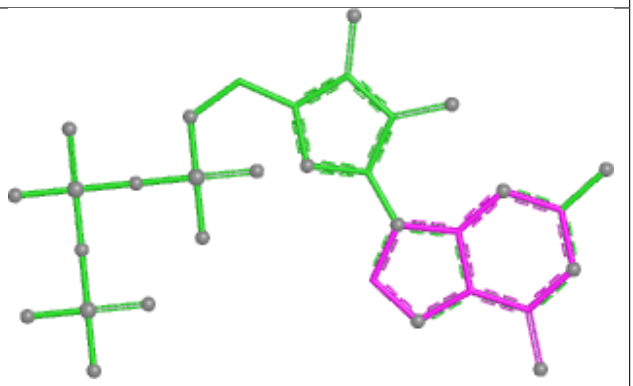

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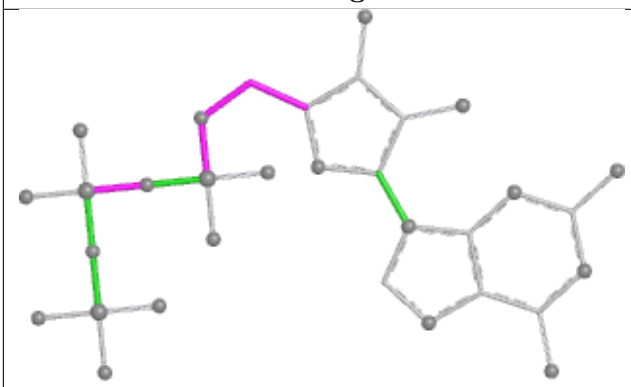

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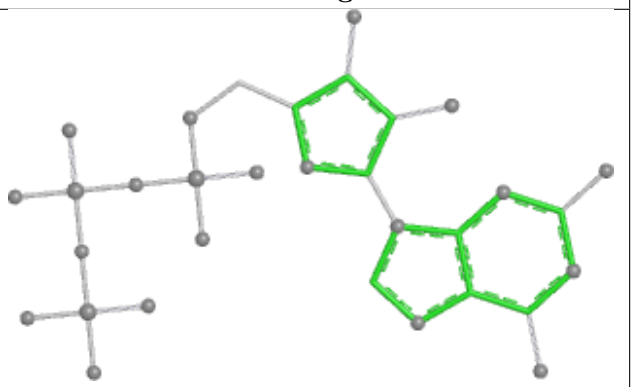

Rings

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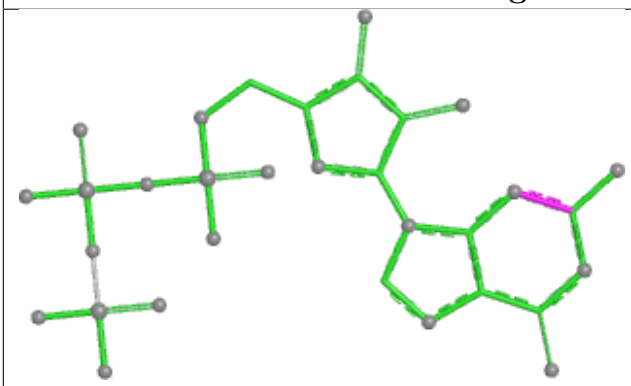

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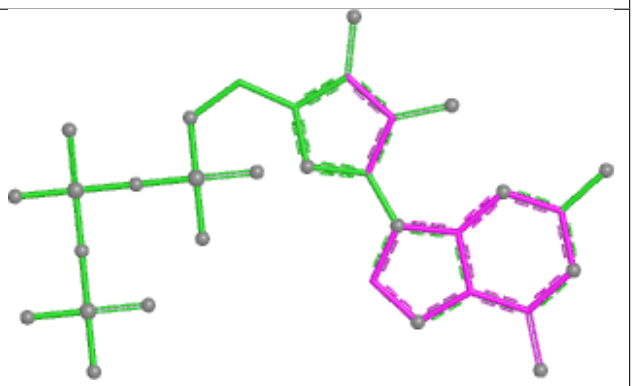

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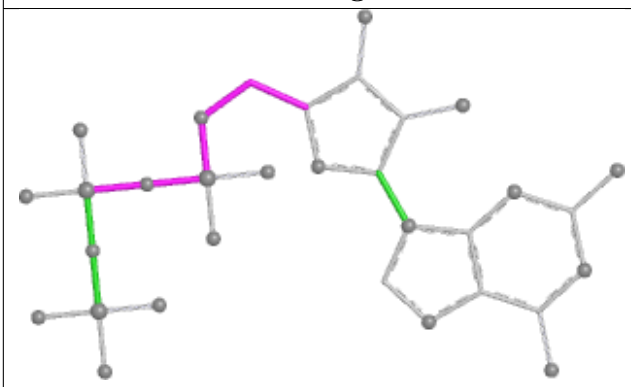

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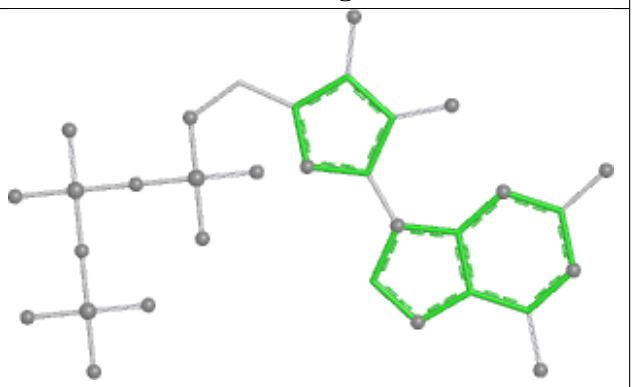
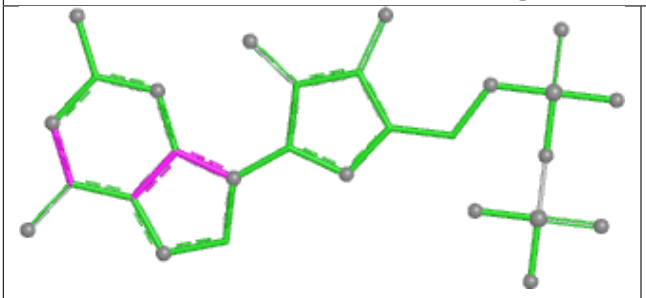


Rings

Ligand GDP JF 502



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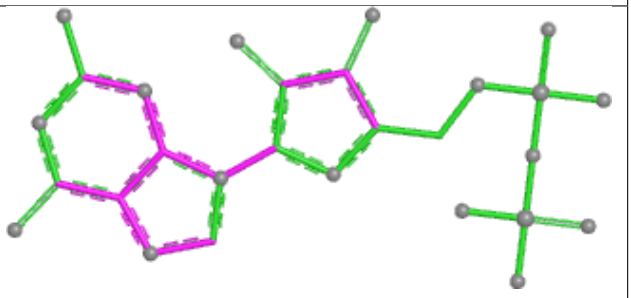

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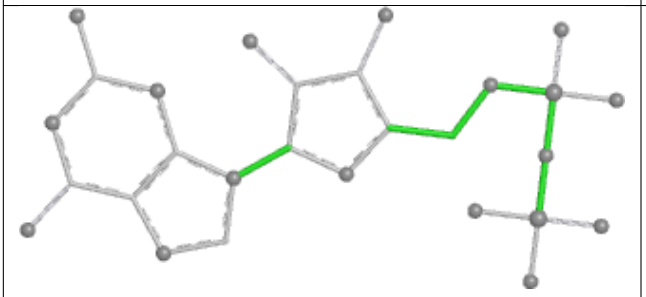

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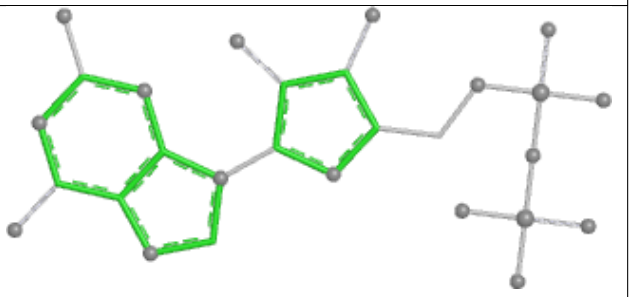
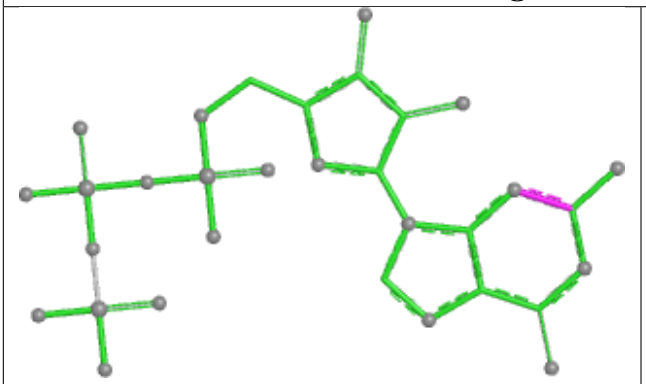


Rings

Ligand GTP VG 501



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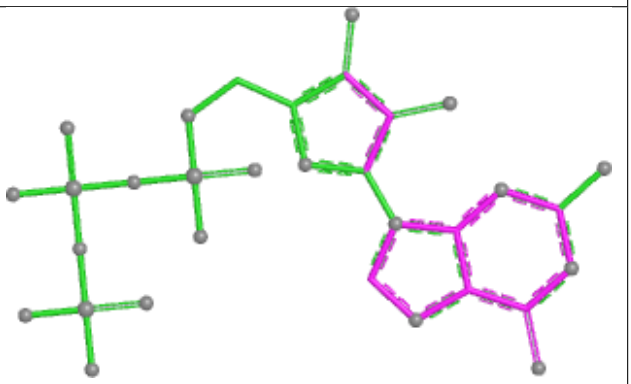

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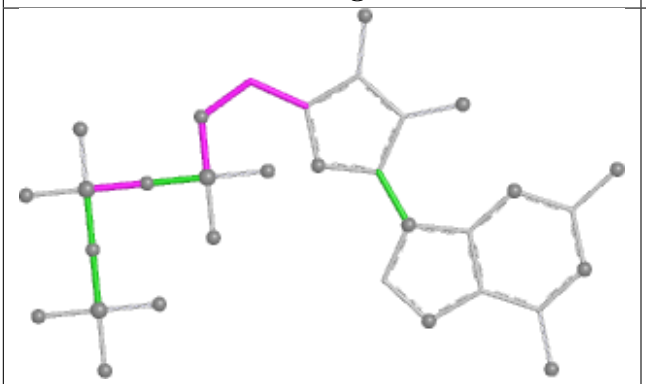

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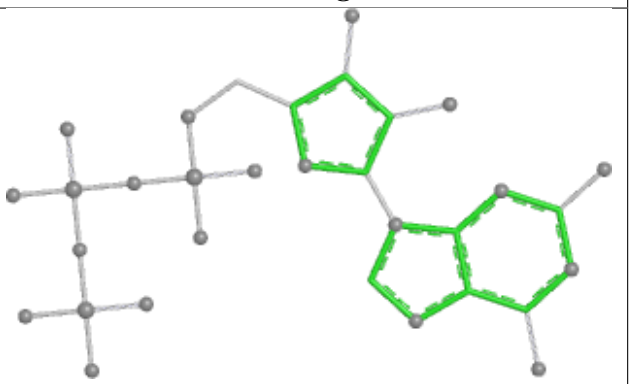

Rings

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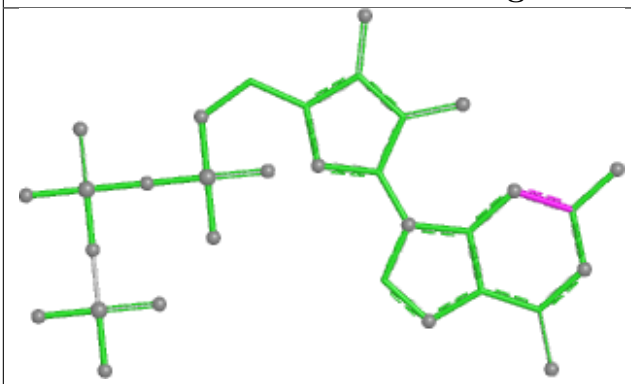

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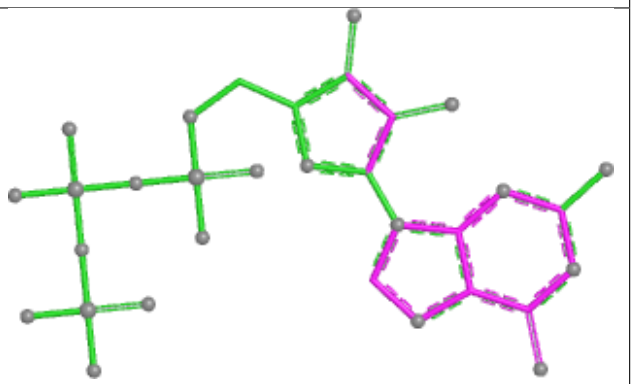

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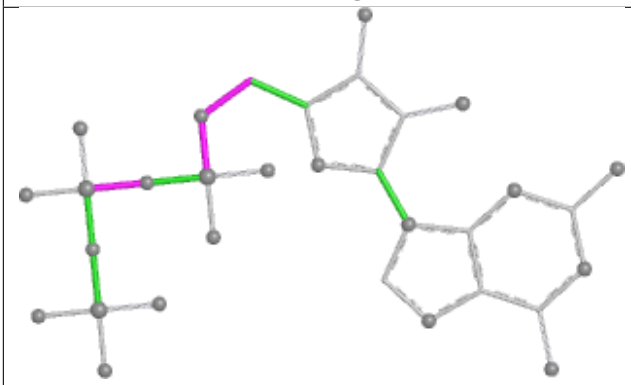

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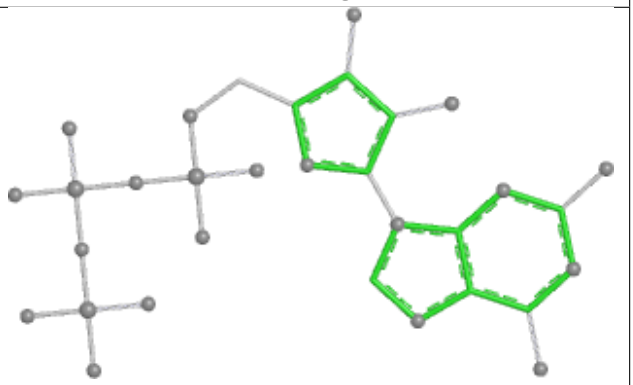
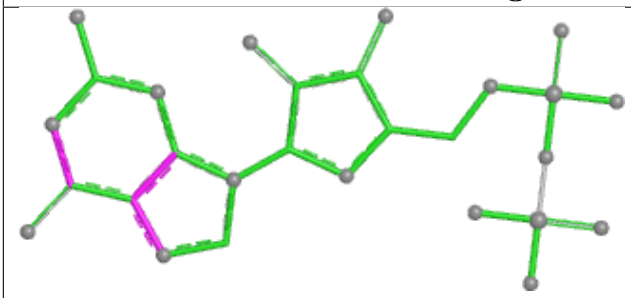


Rings

Ligand GDP AD 502



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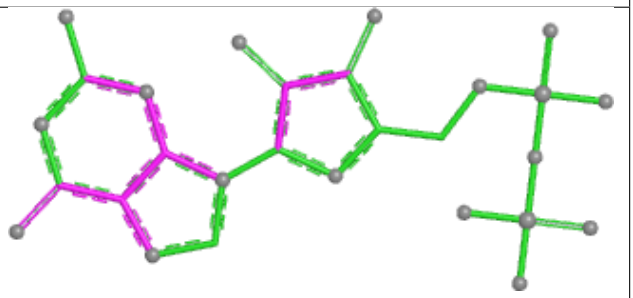

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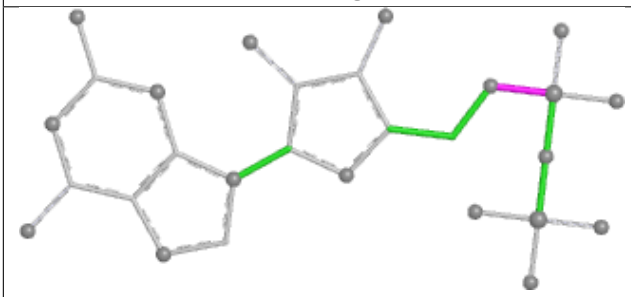

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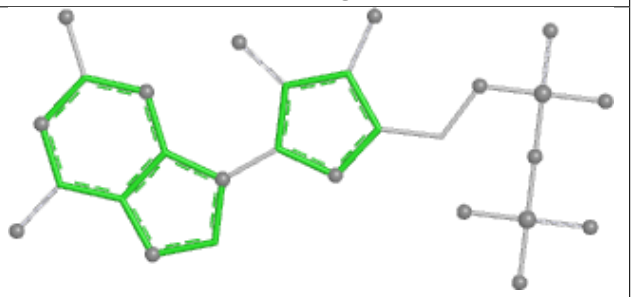
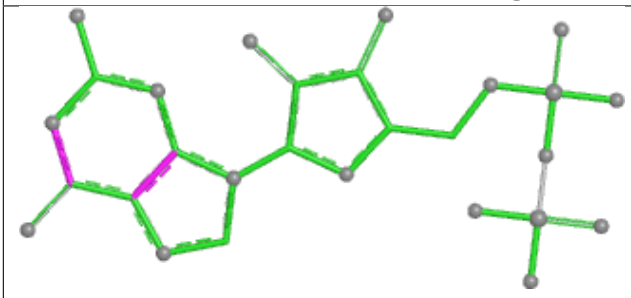
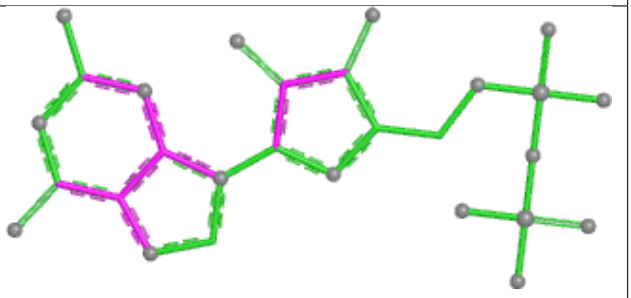
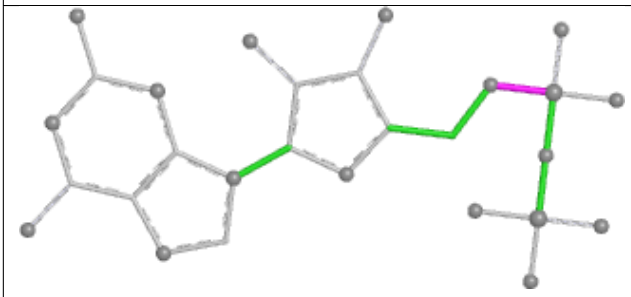
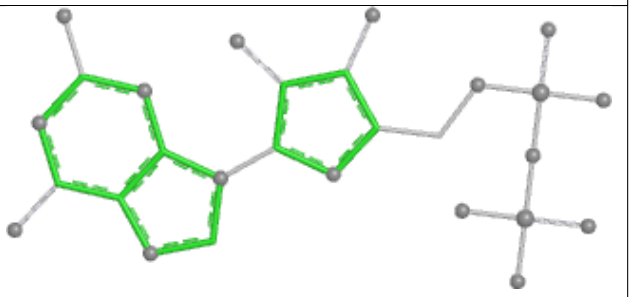
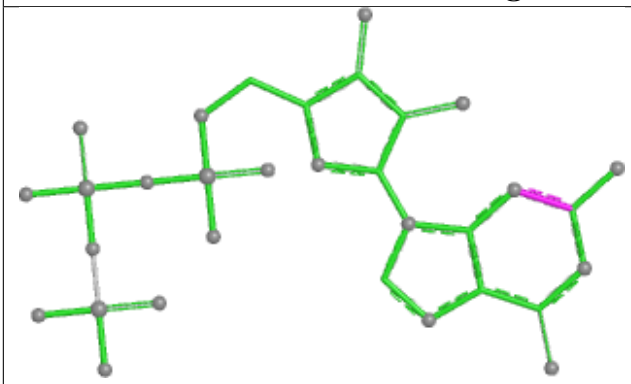
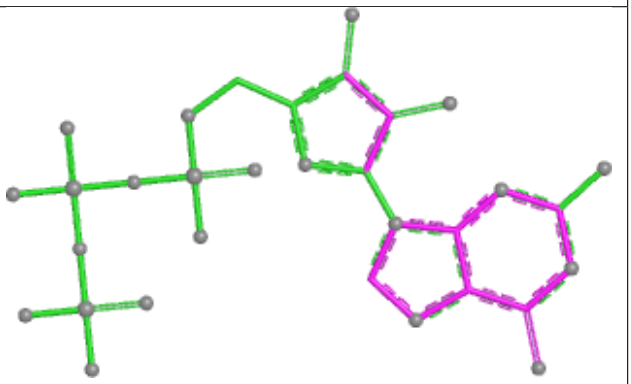
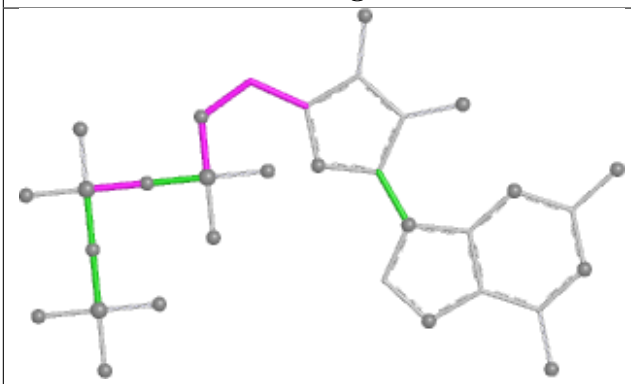
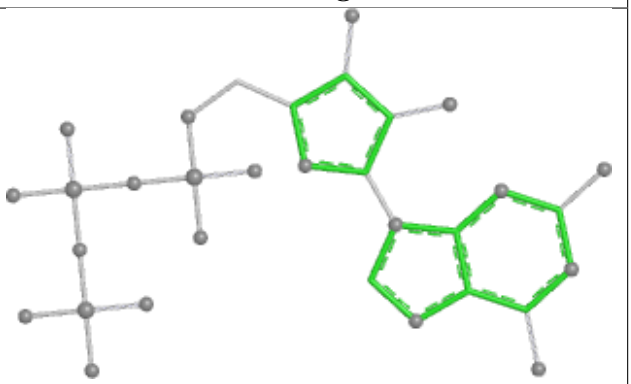


Rings

Ligand GDP TN 502	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP MA 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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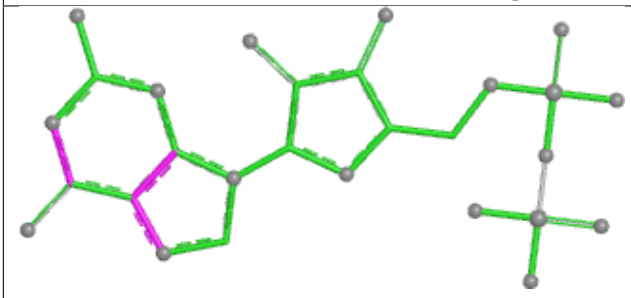

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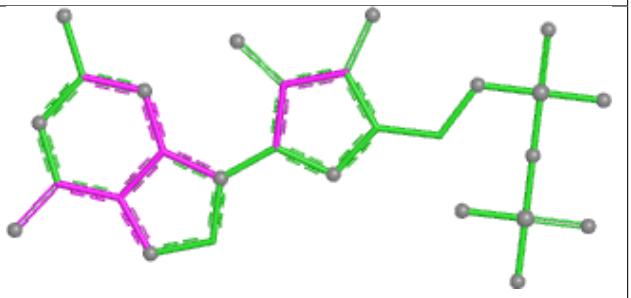

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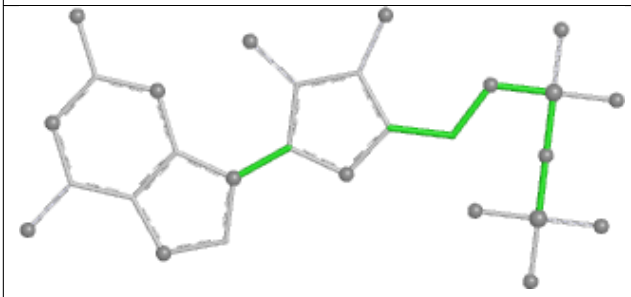

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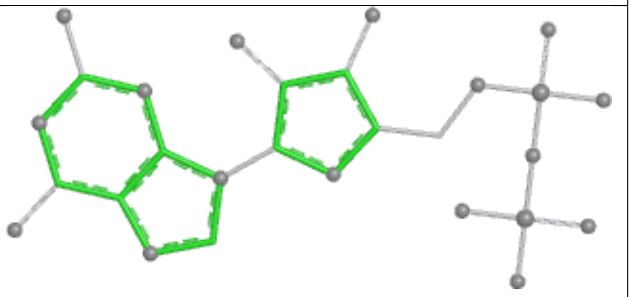

Rings

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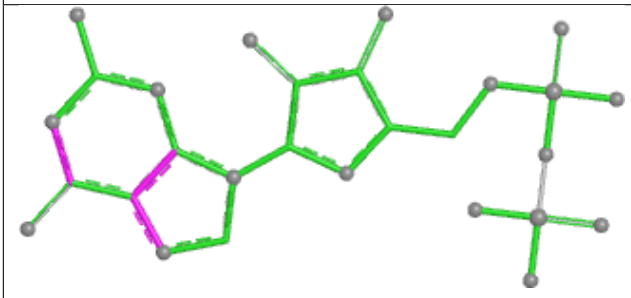

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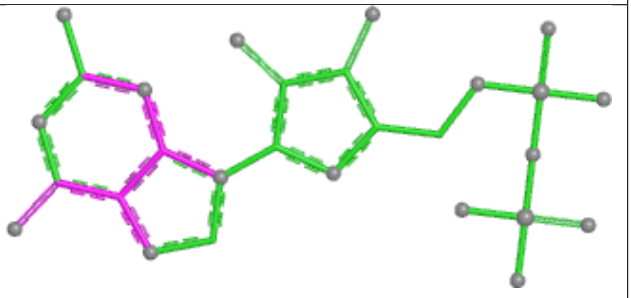

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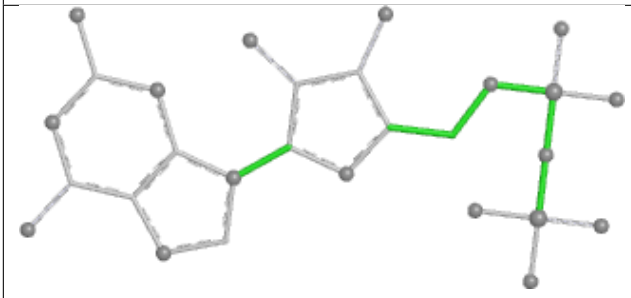

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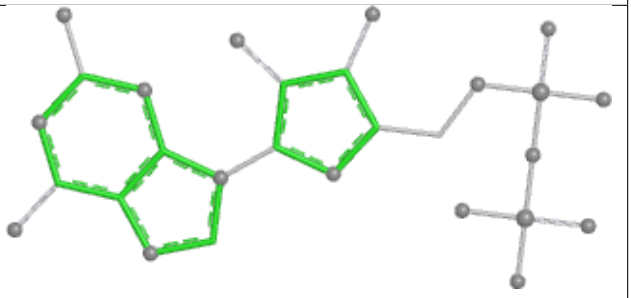

Rings

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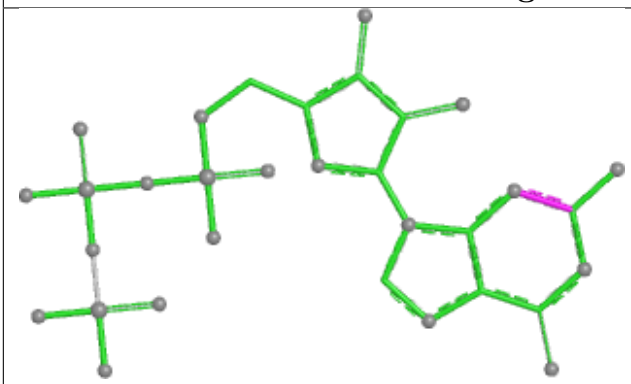

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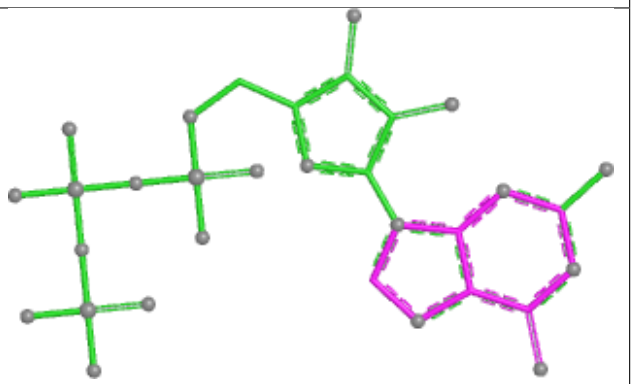

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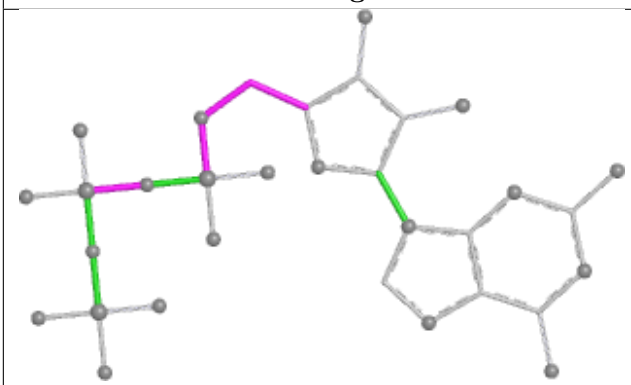

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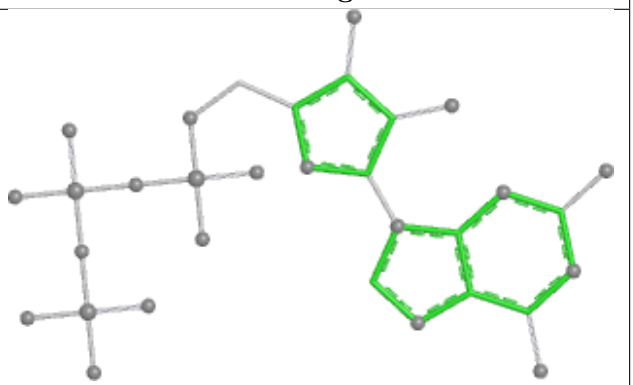

Rings

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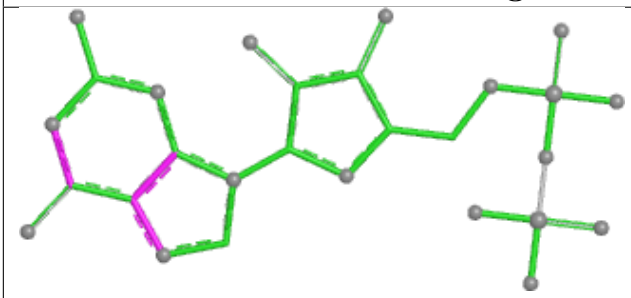

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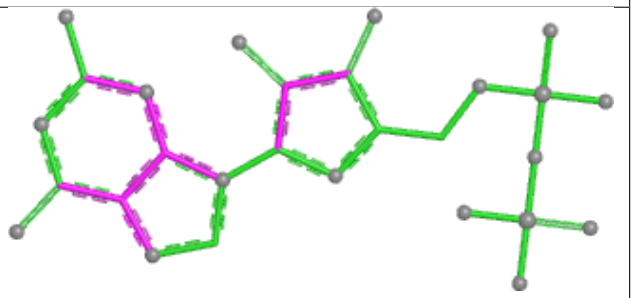

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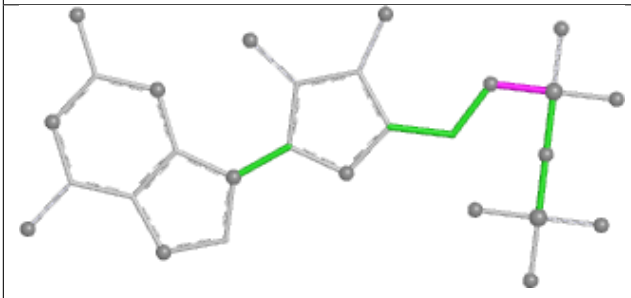

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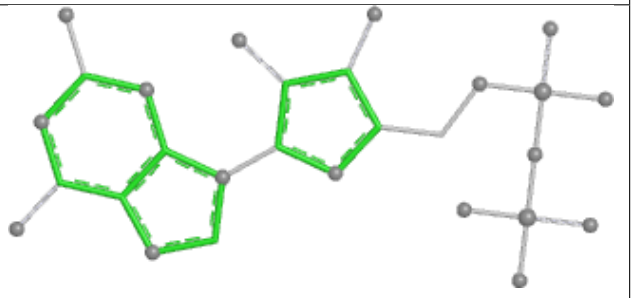

Rings

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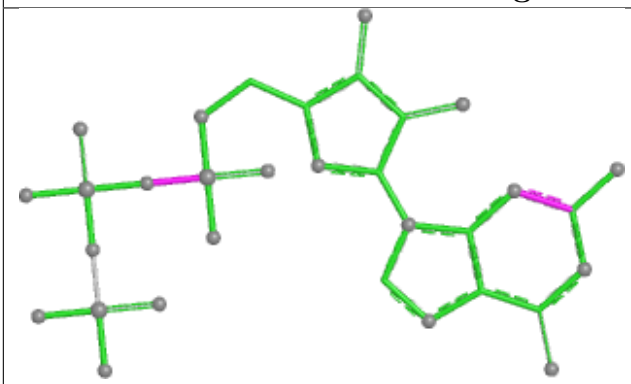

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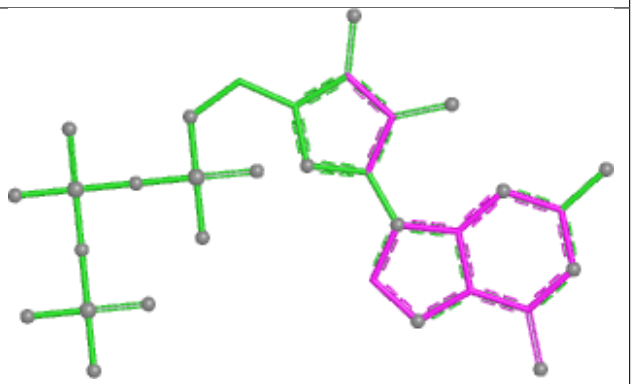

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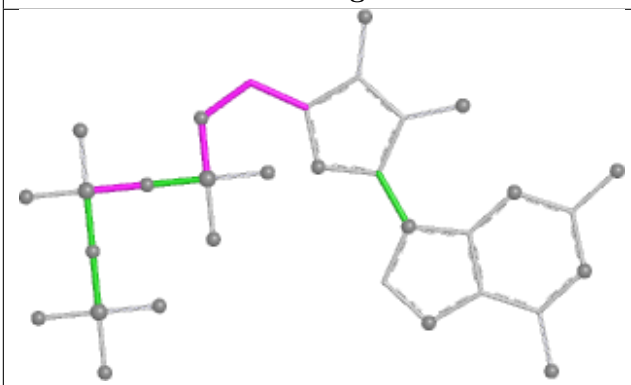

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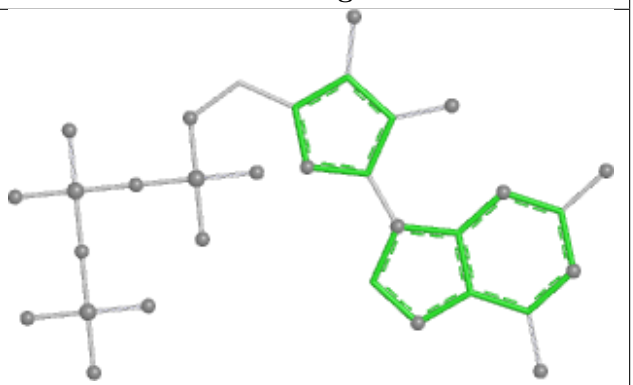

Rings

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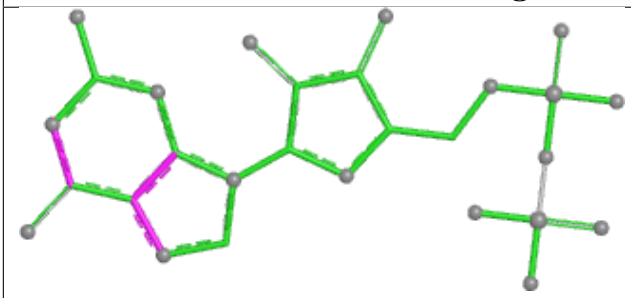

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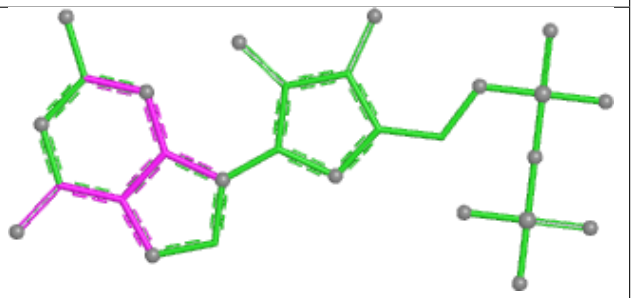

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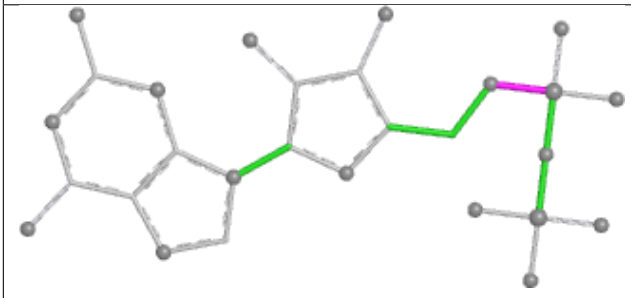

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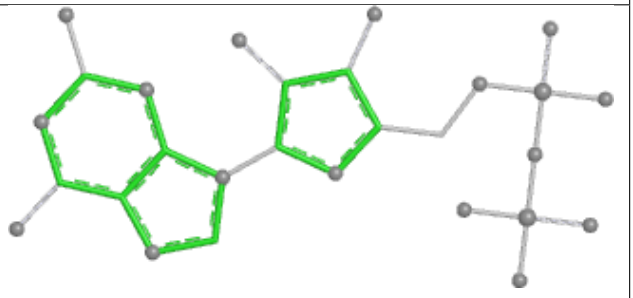

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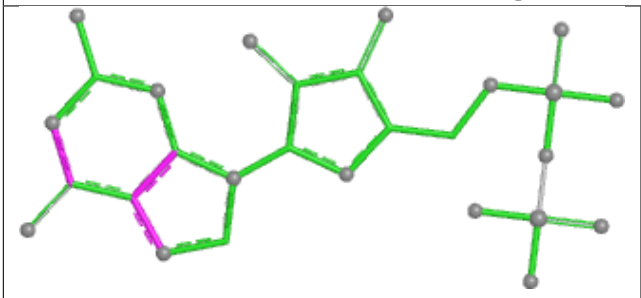

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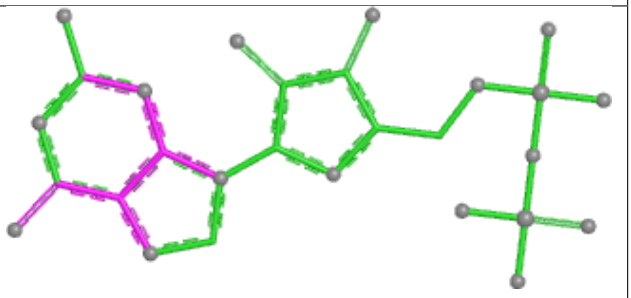

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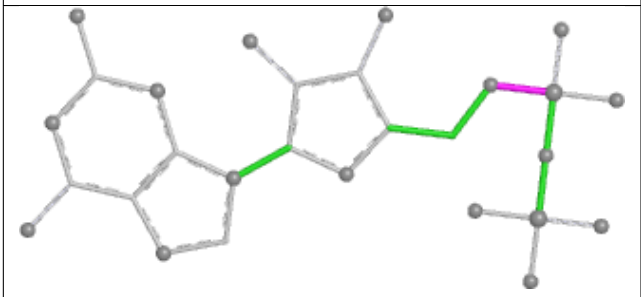

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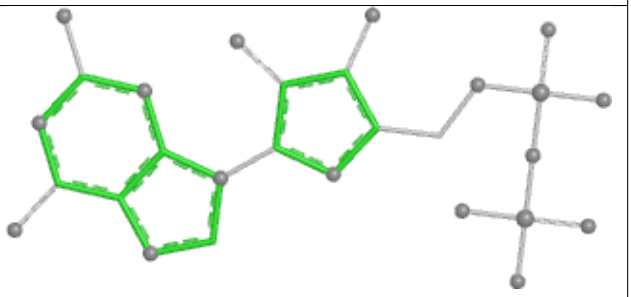
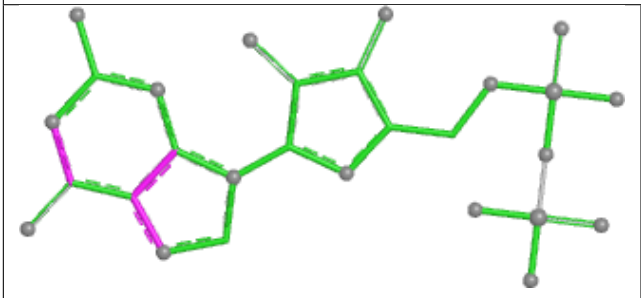


Rings

Ligand GDP CJ 502



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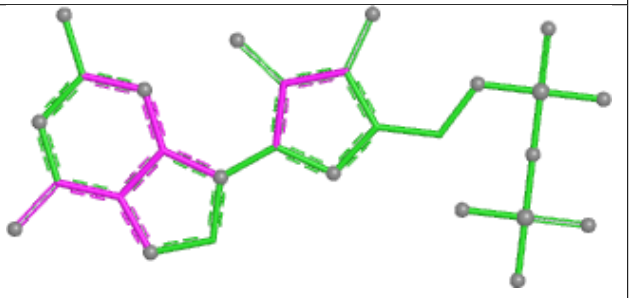

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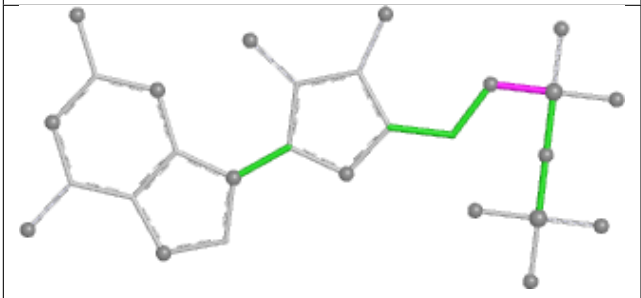

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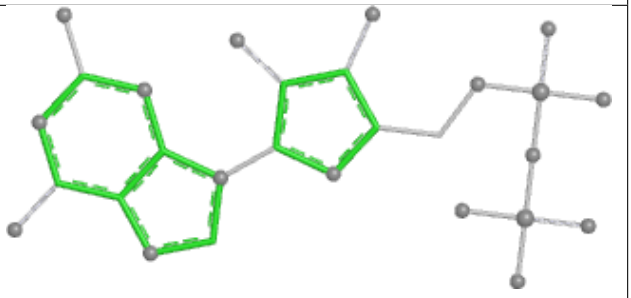

Rings

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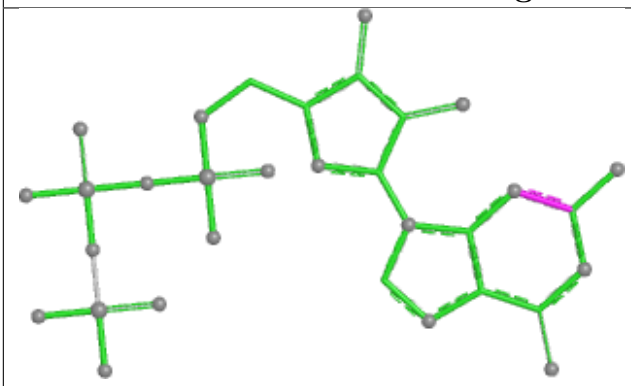

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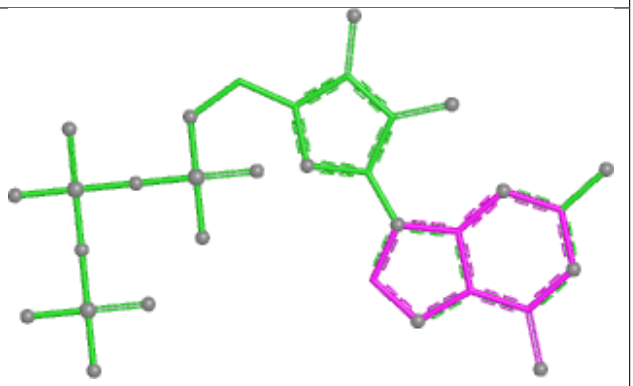

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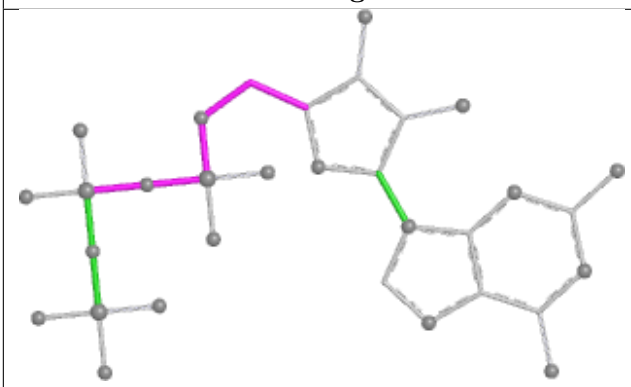

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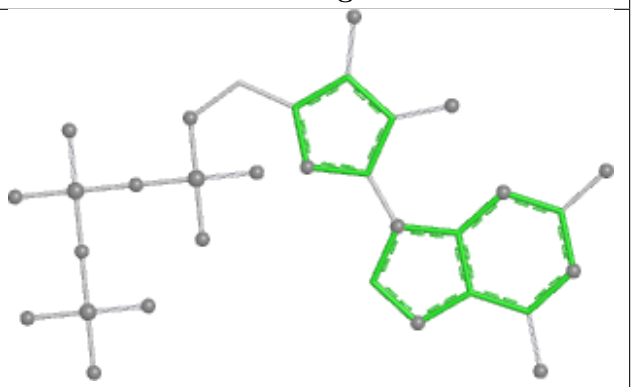

Rings

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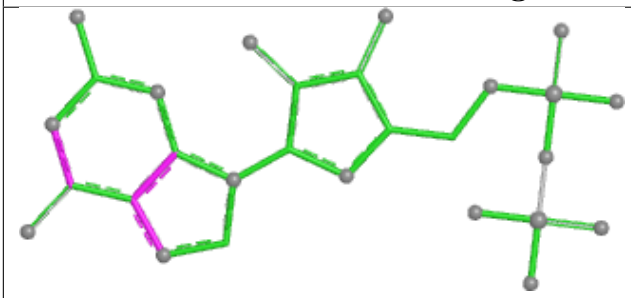

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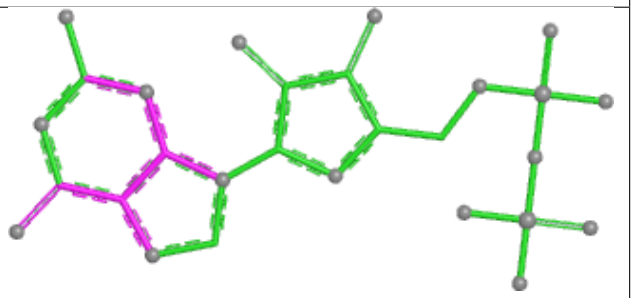

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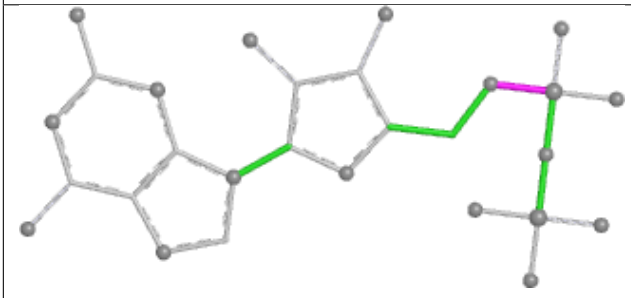

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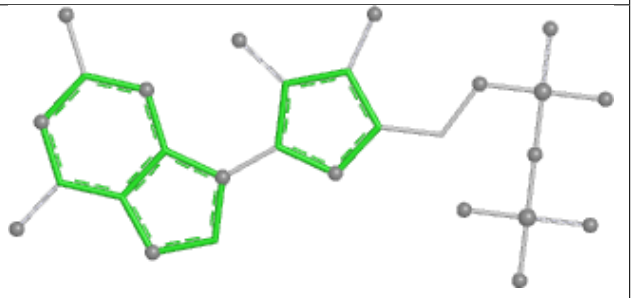

Rings

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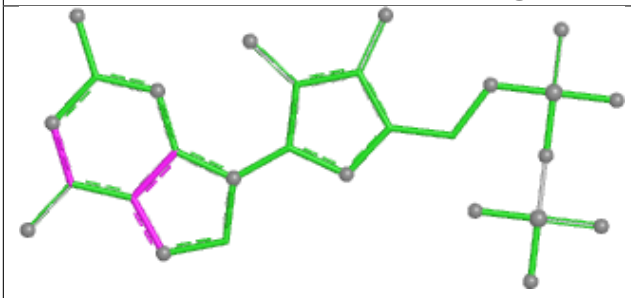

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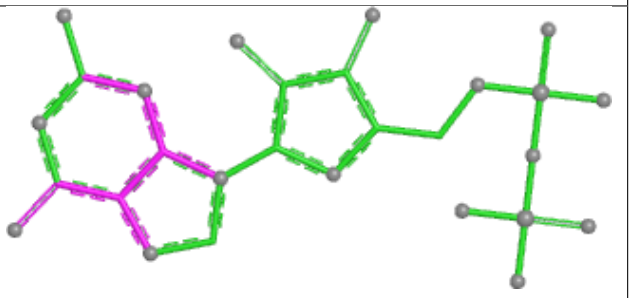

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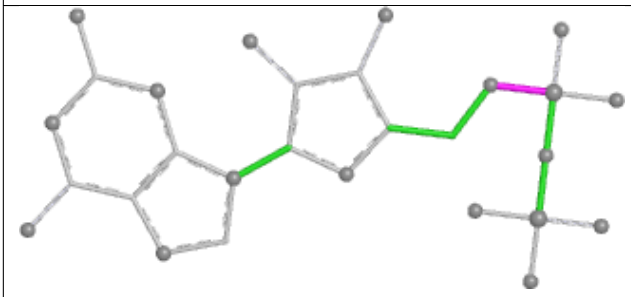

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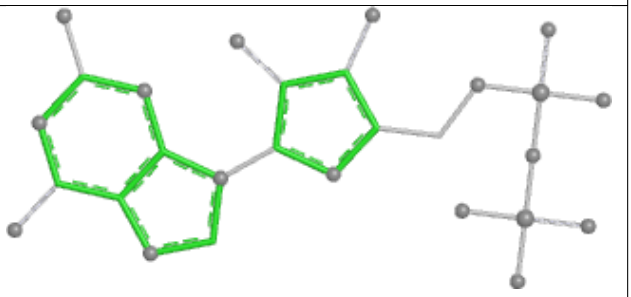
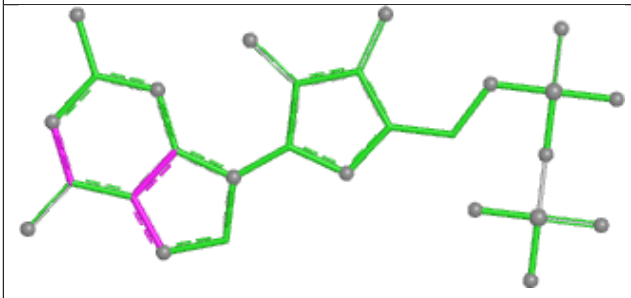


Rings

Ligand GDP AL 502



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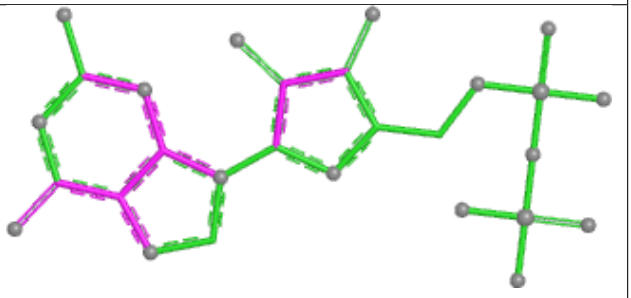

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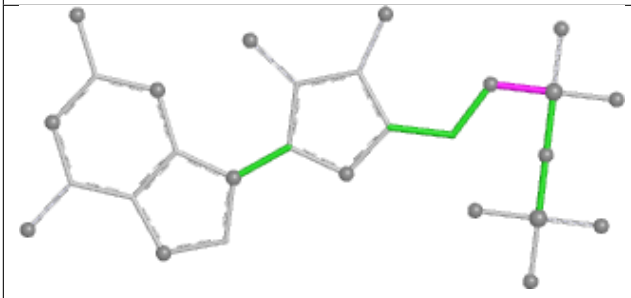

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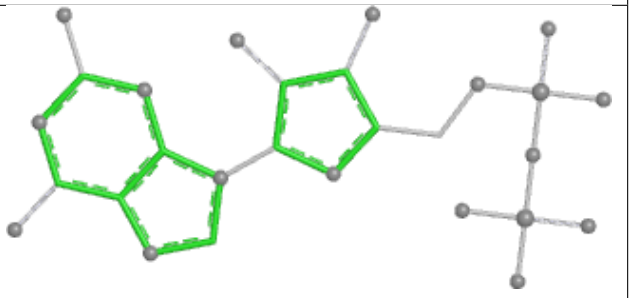

Rings

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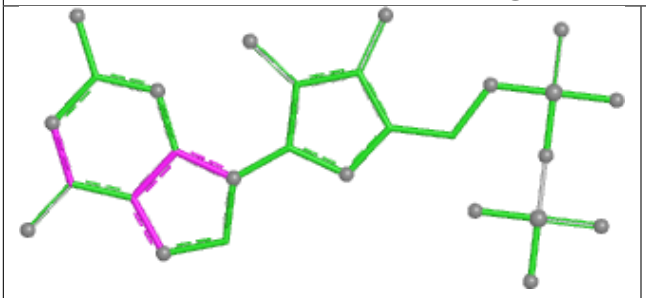

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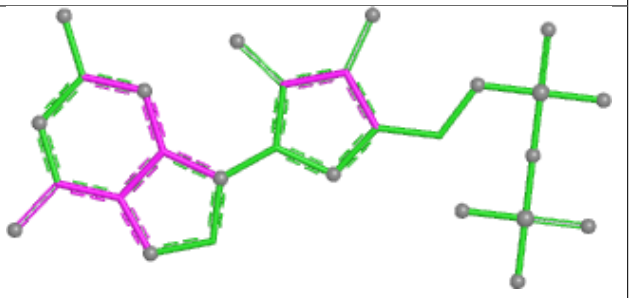
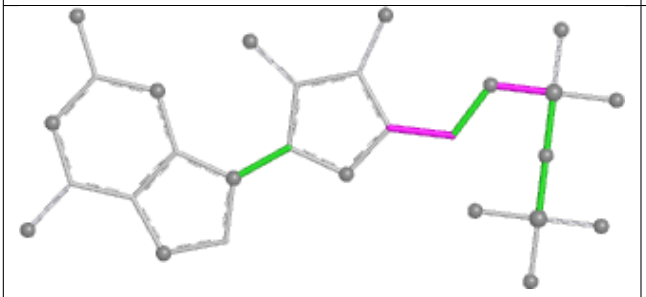
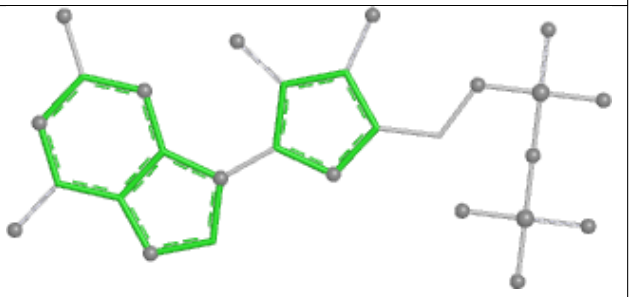


Bond angles

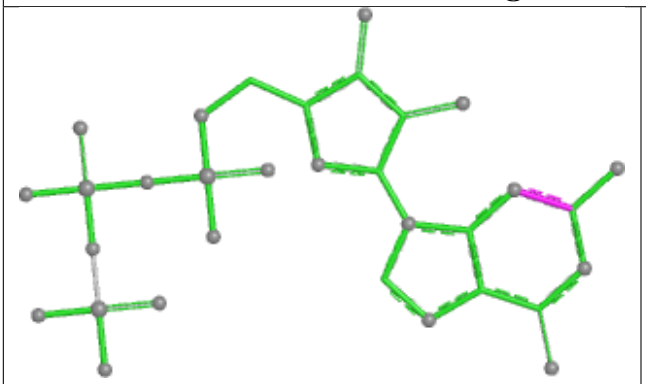


Torsions



Rings

Ligand GTP HM 501



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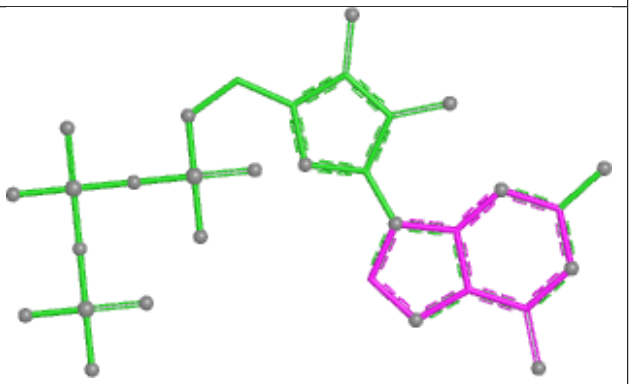

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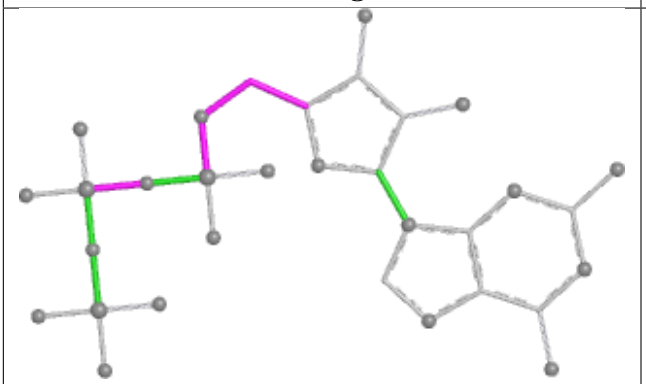

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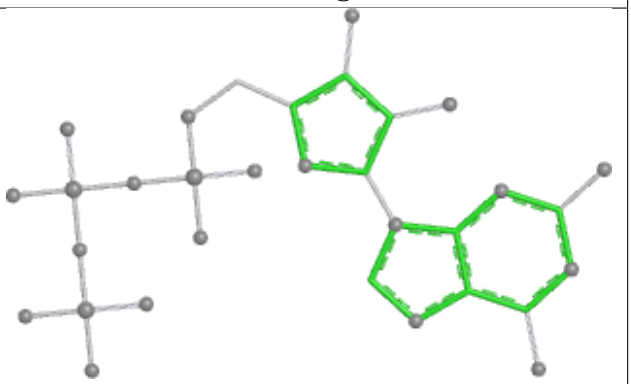
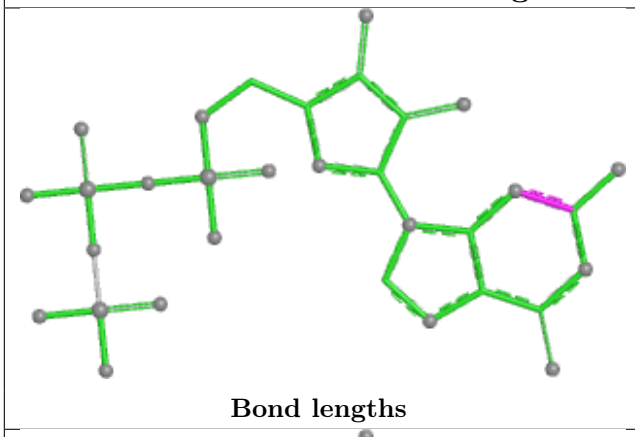


Rings

Ligand GTP TC 501



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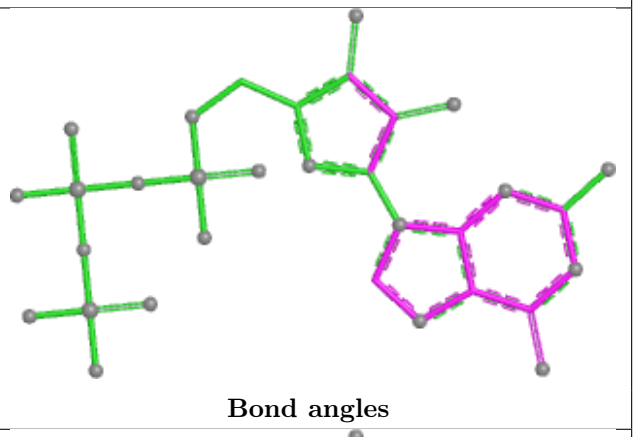

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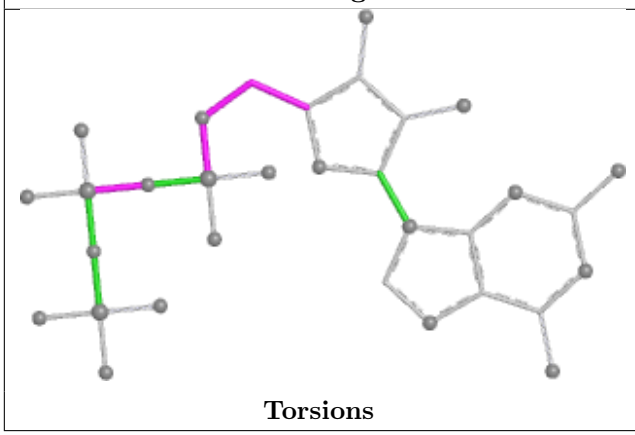

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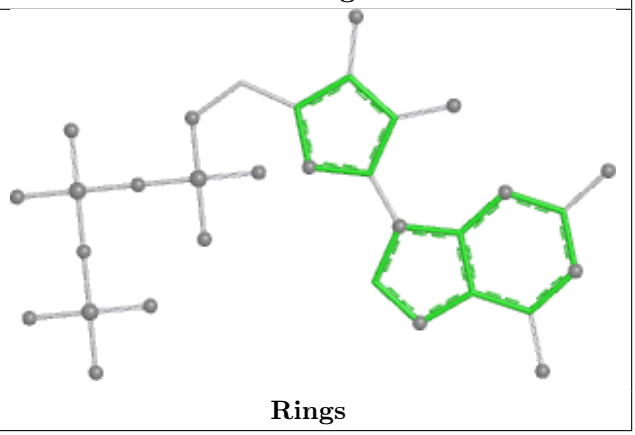

Rings

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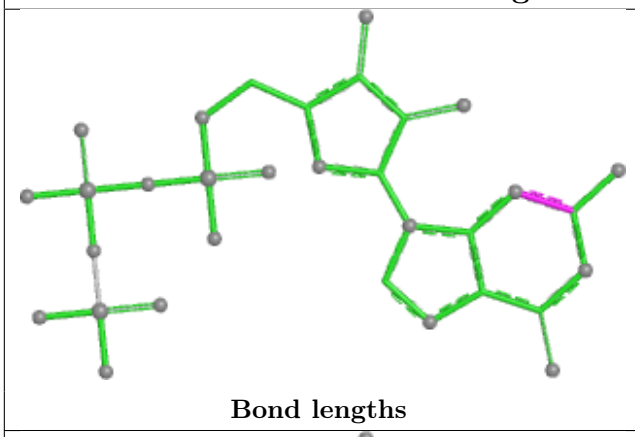

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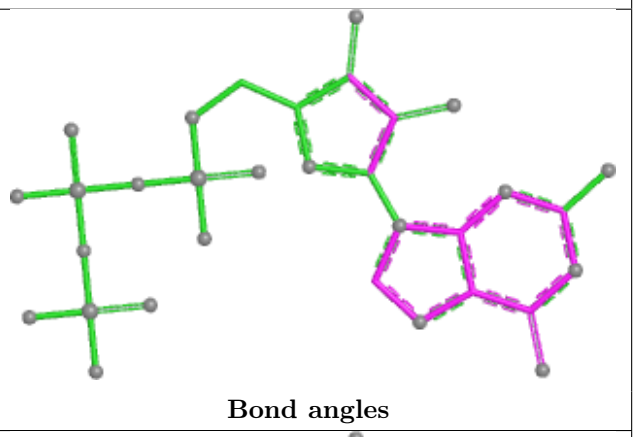

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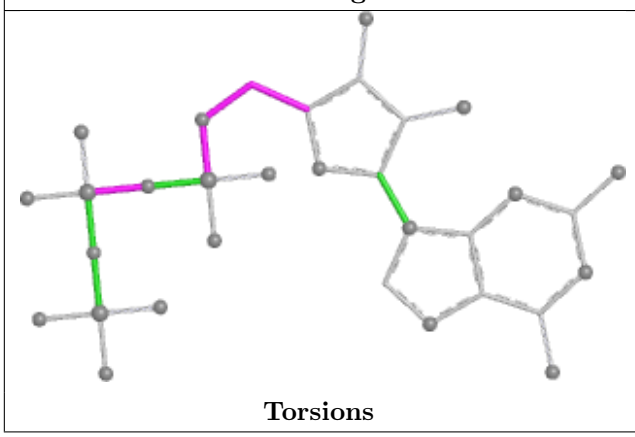

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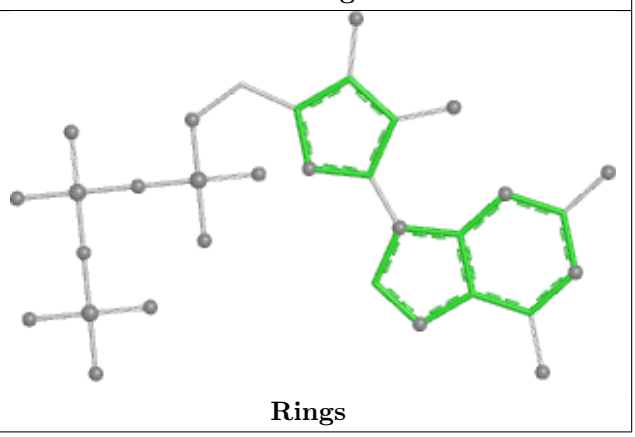
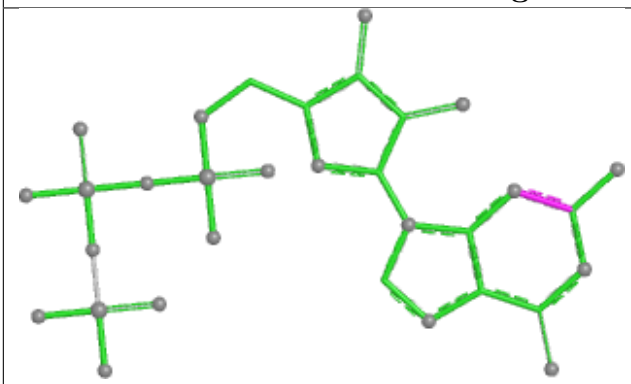


Rings

Ligand GTP LA 501



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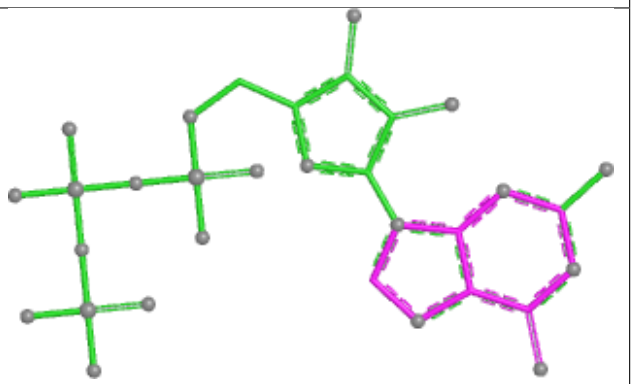

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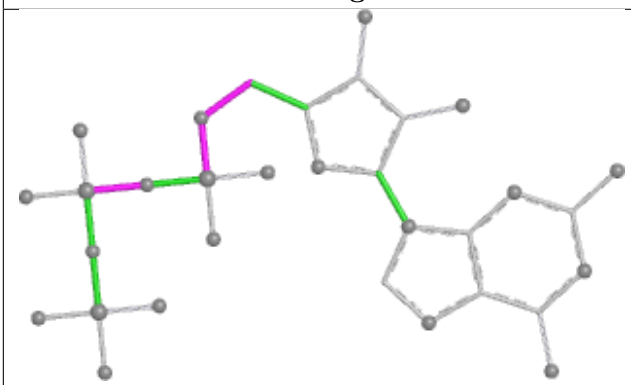

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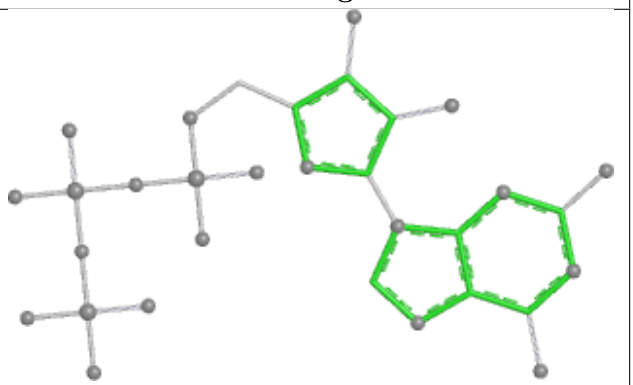
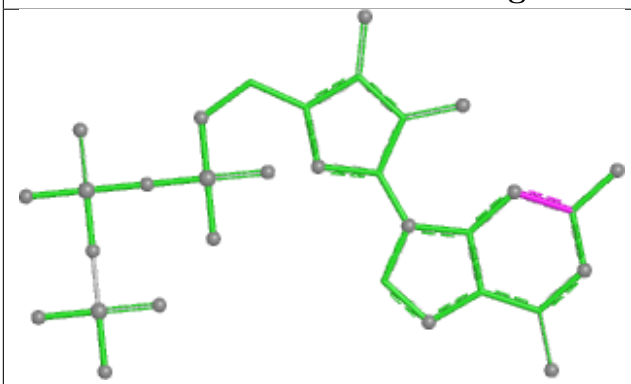


Rings

Ligand GTP UO 501



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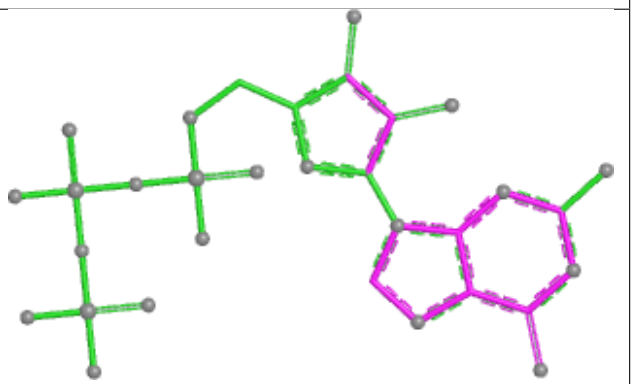

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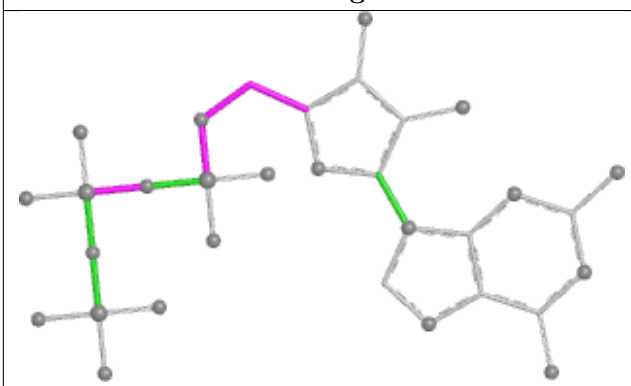

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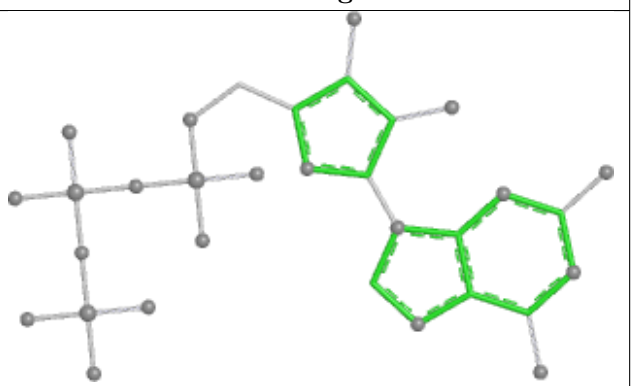
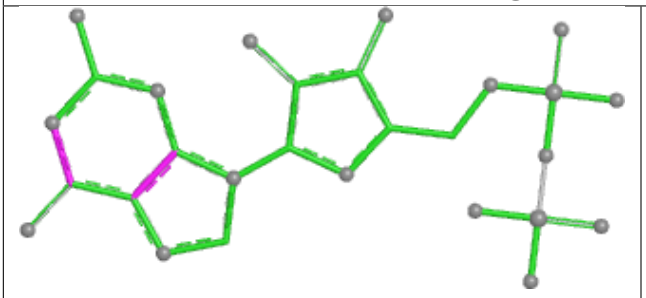


Rings

Ligand GDP ON 502



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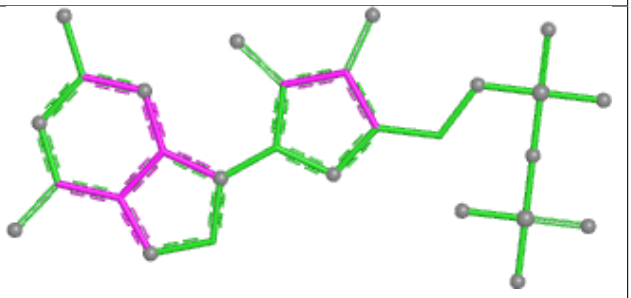

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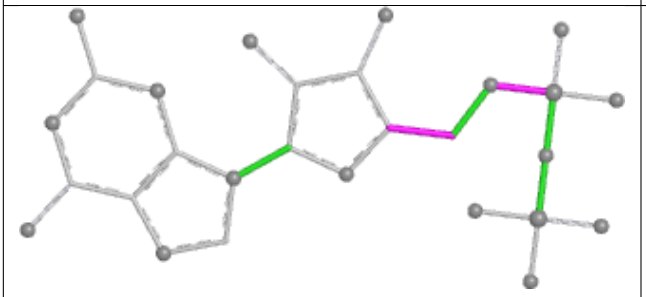

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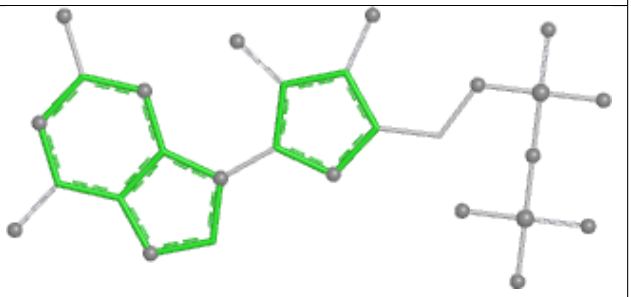
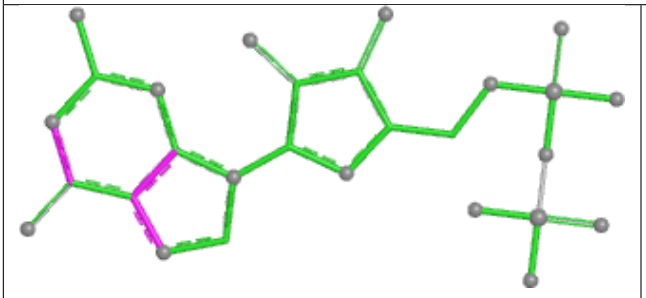


Rings

Ligand GDP EL 502



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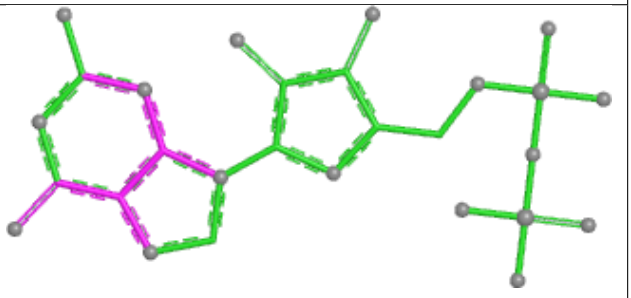

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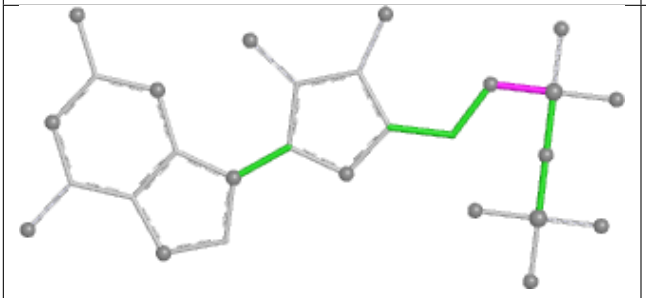

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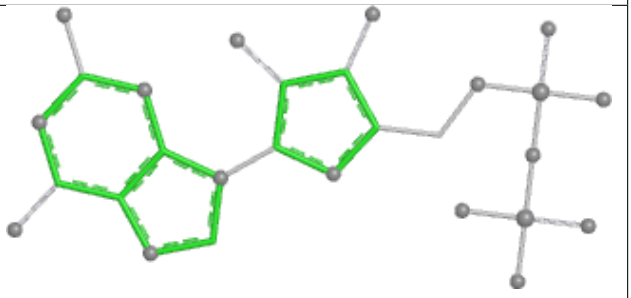
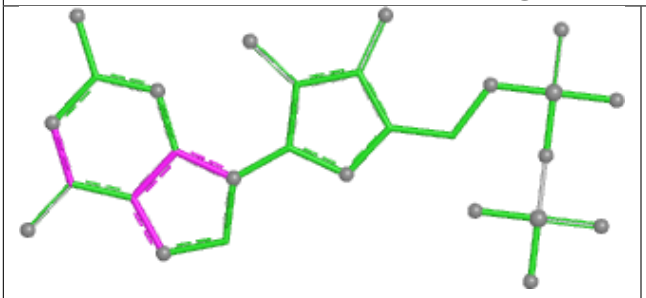


Rings

Ligand GDP JJ 502



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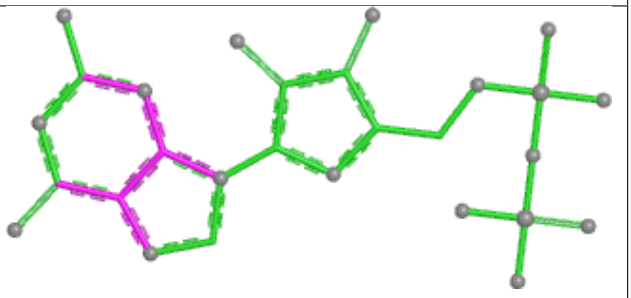

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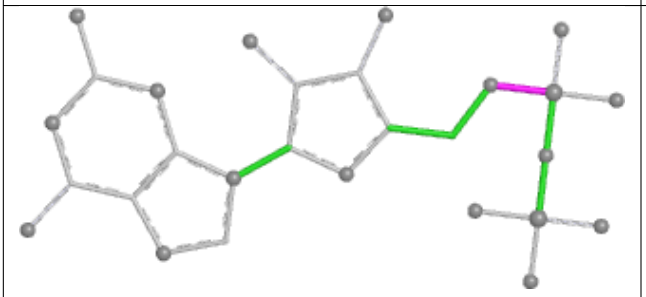

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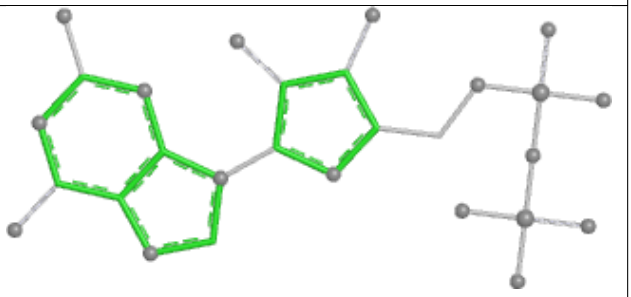
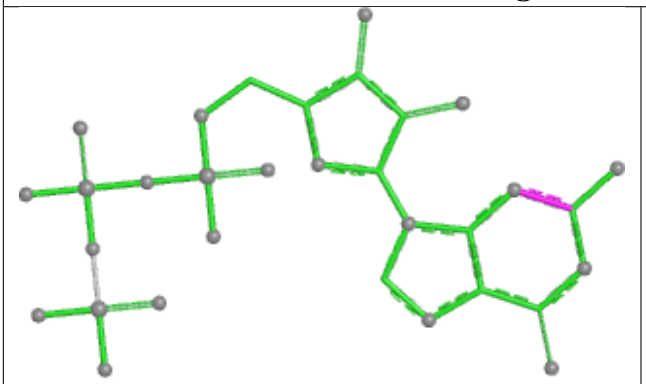


Rings

Ligand GTP JE 501



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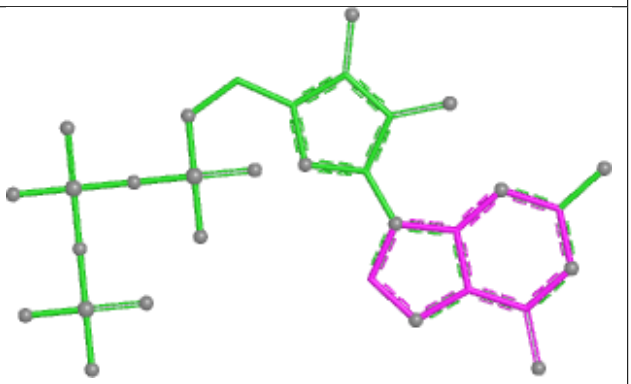

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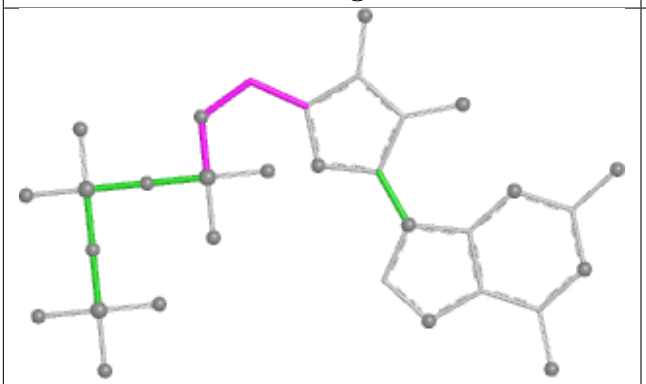

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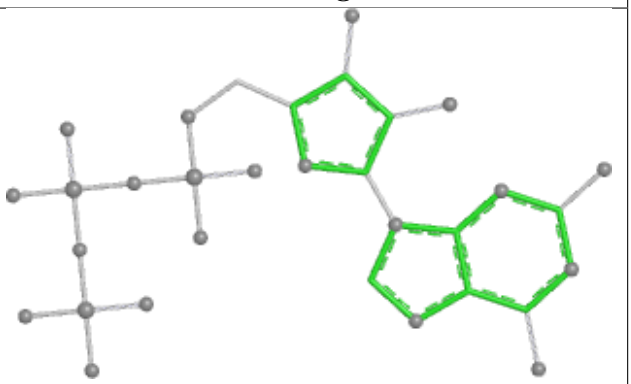
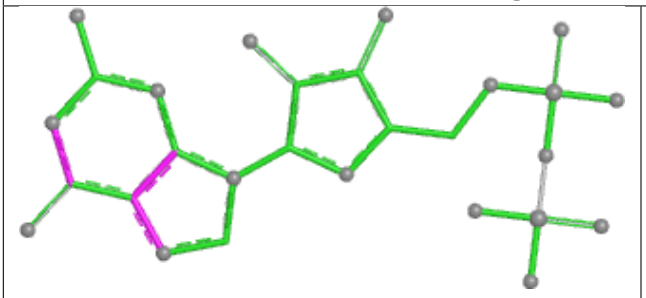


Rings

Ligand GDP VB 502



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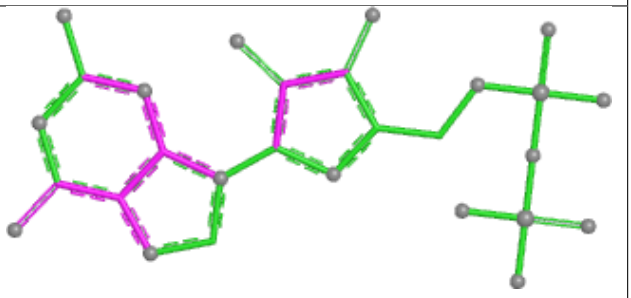

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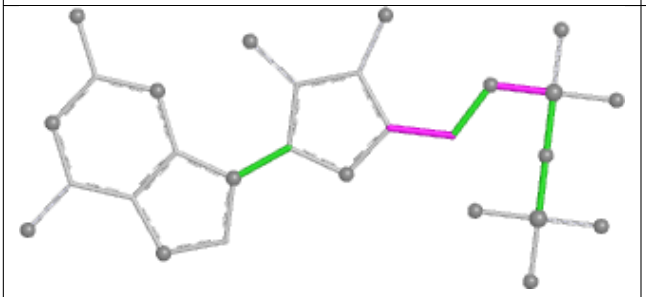

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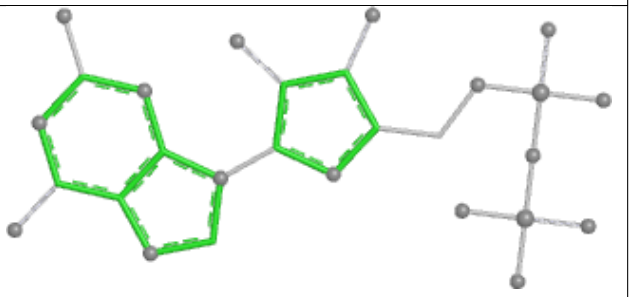
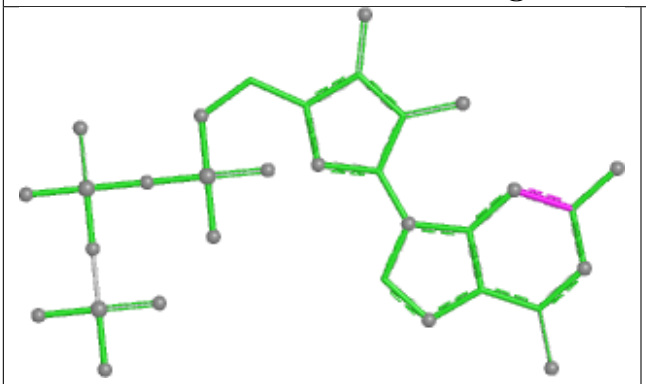


Rings

Ligand GTP HG 501



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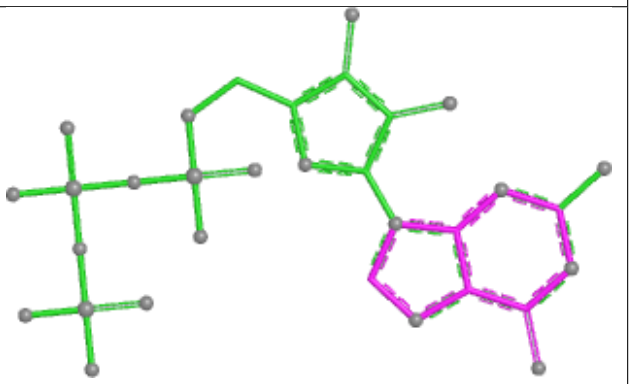

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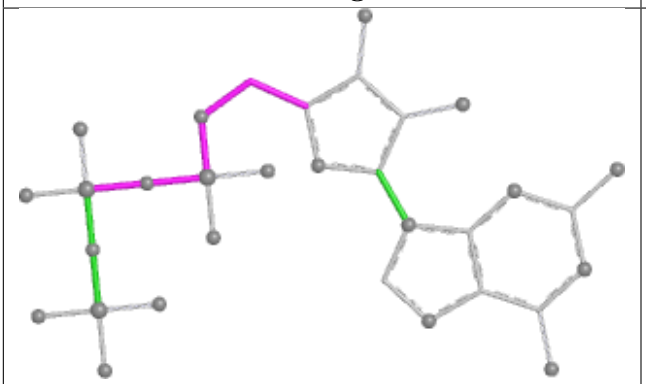

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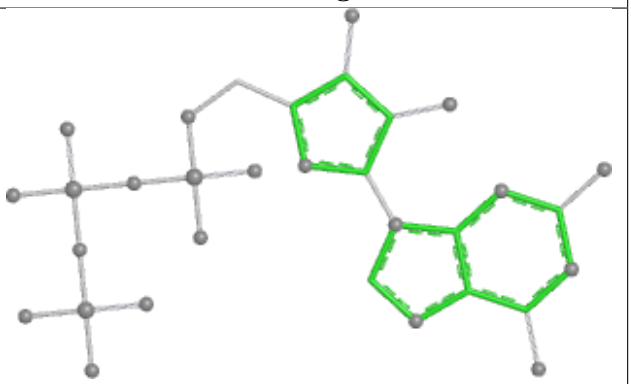
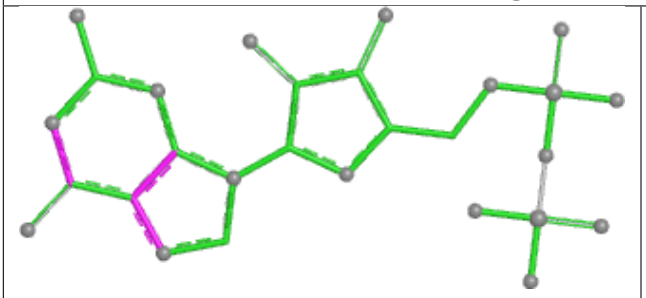


Rings

Ligand GDP NB 502



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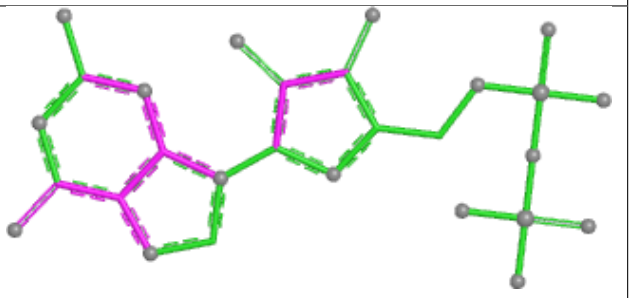

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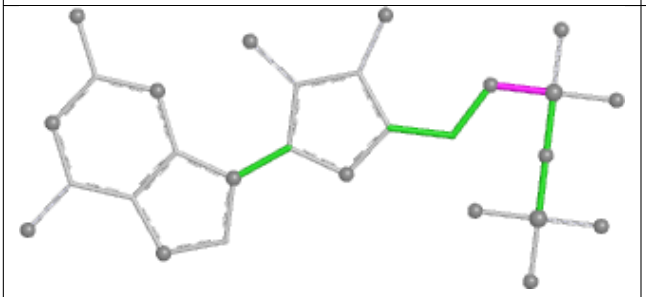

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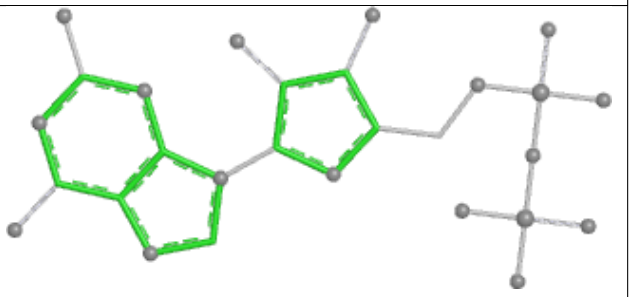
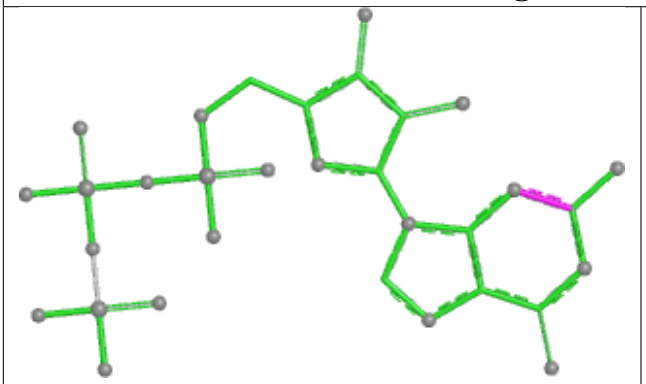


Rings

Ligand GTP LE 501



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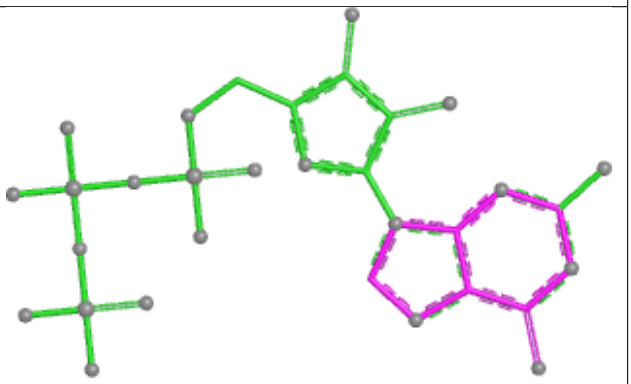
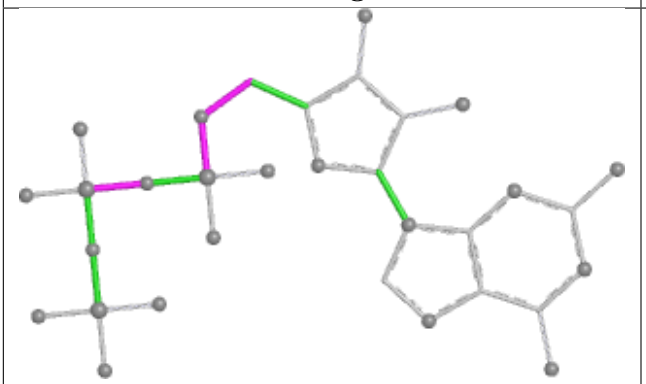


Bond angles



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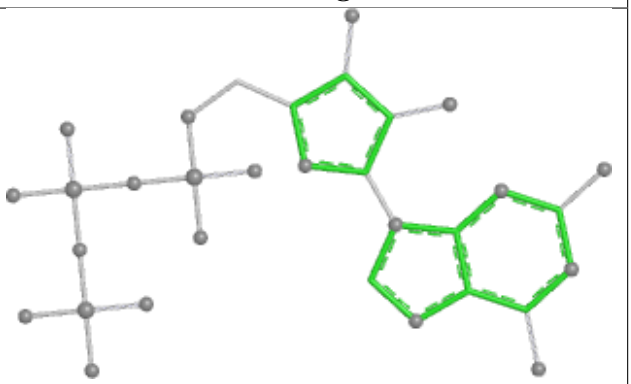
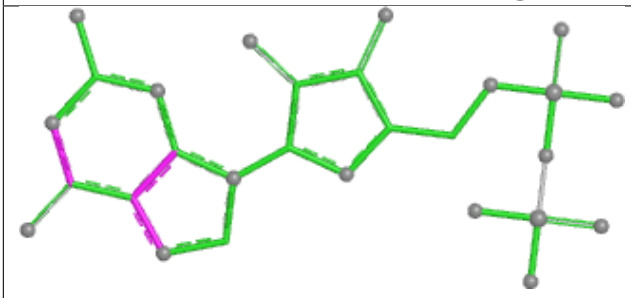


Rings

Ligand GDP JD 502



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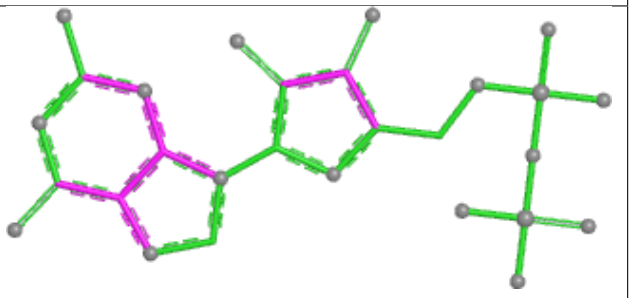

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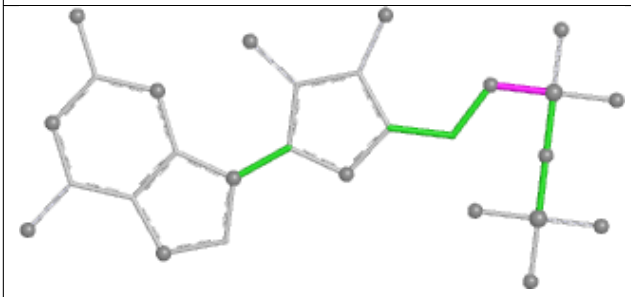

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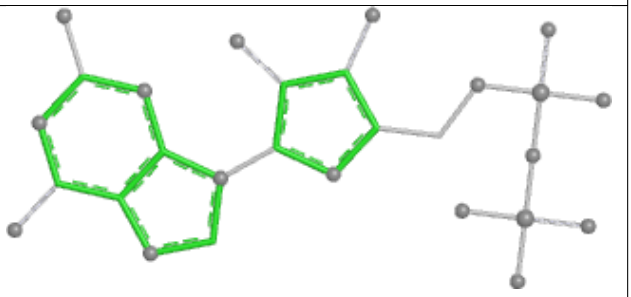
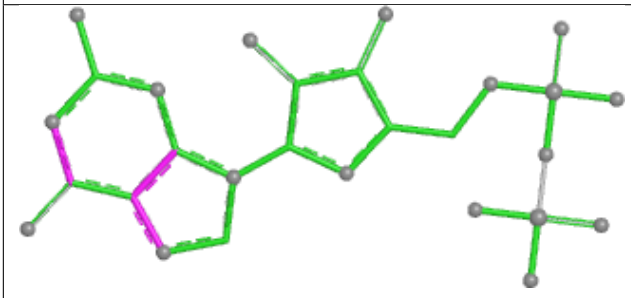


Rings

Ligand GDP LL 502



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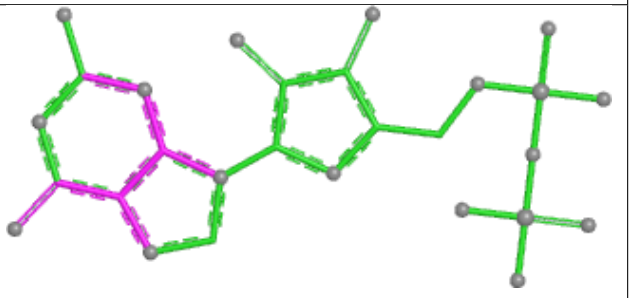

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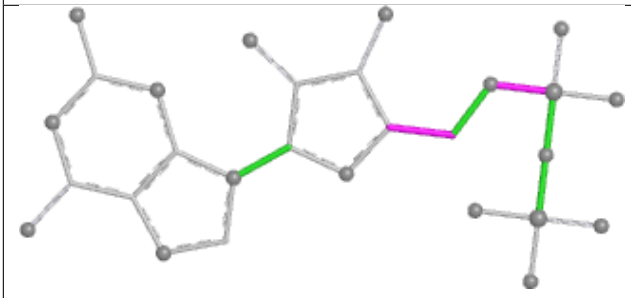

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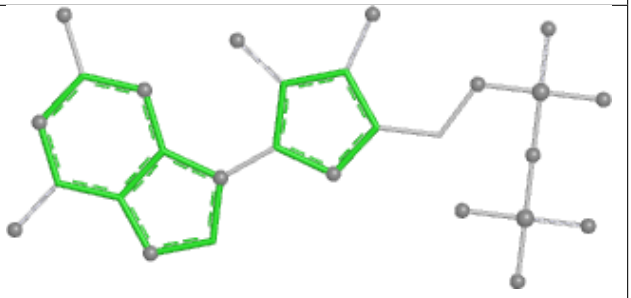
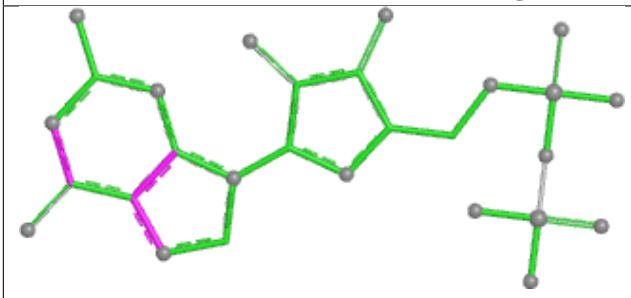


Rings

Ligand GDP JN 502



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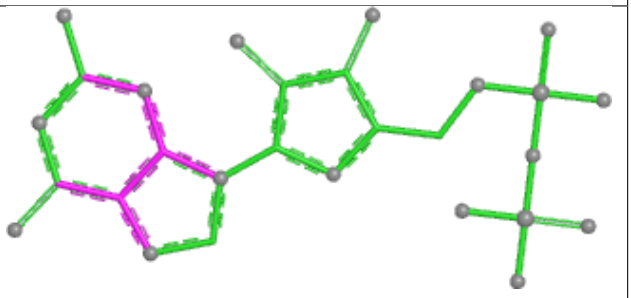

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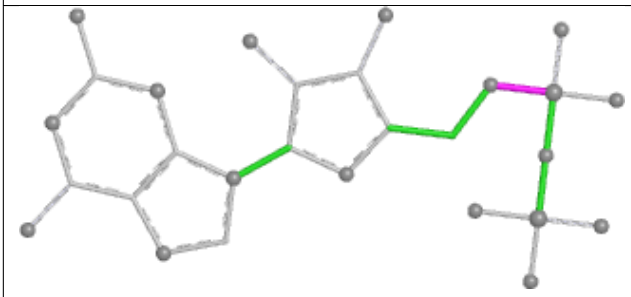

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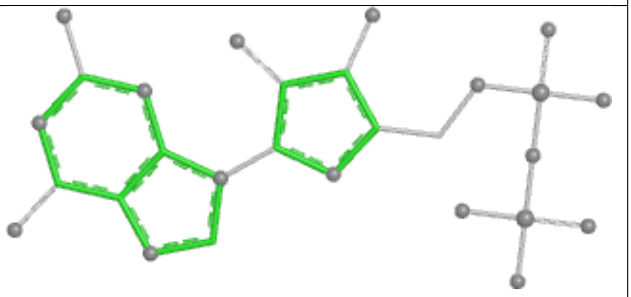
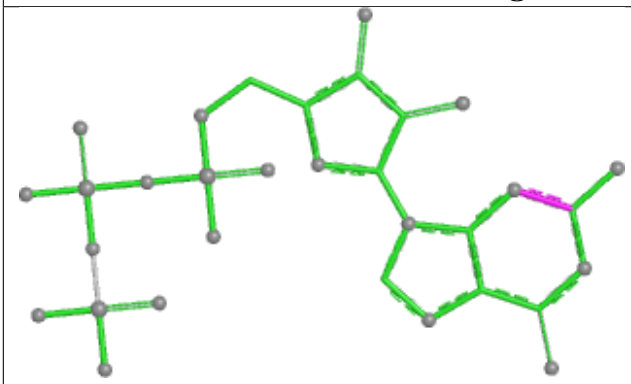


Rings

Ligand GTP NO 501



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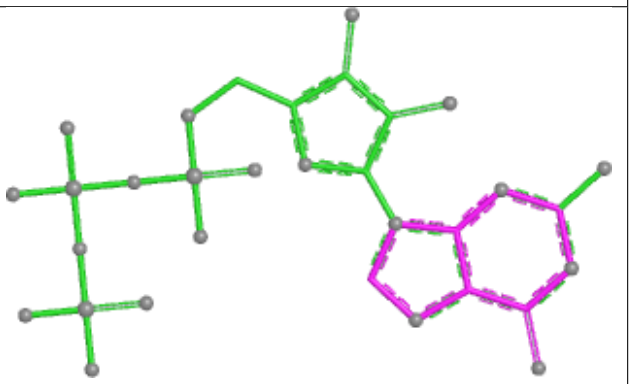

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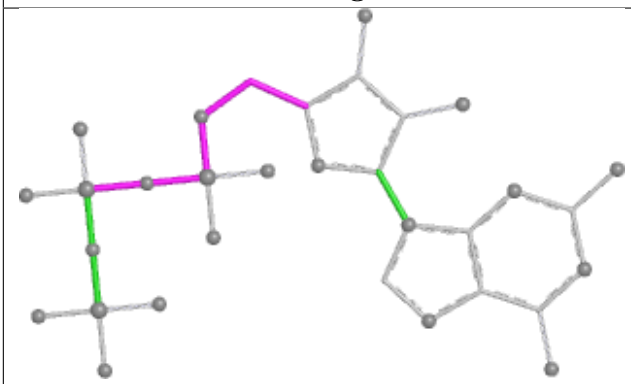

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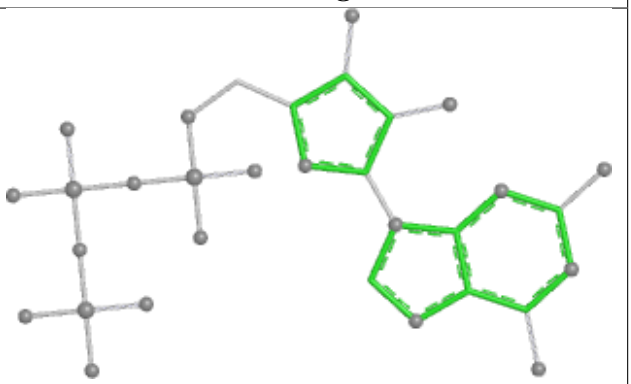
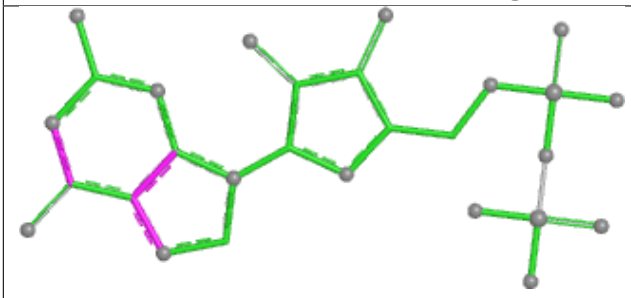


Rings

Ligand GDP GN 502



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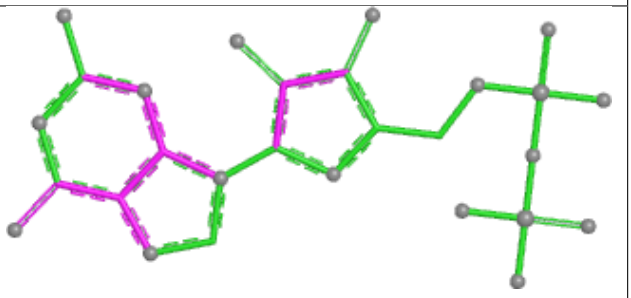

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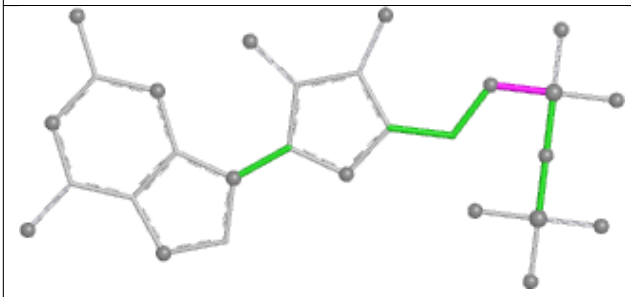

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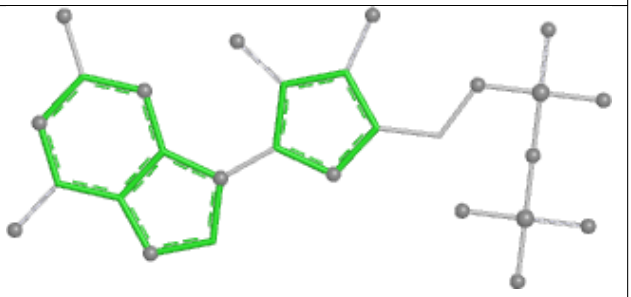

Rings

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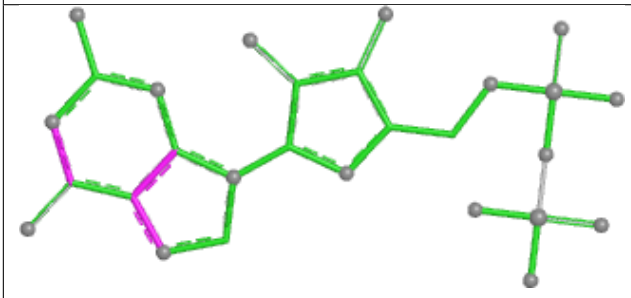

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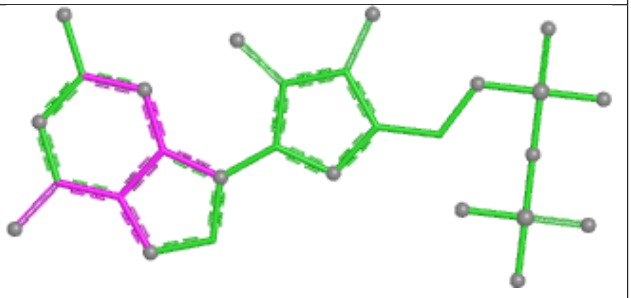

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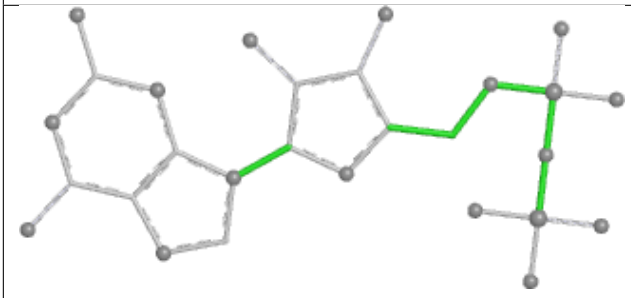

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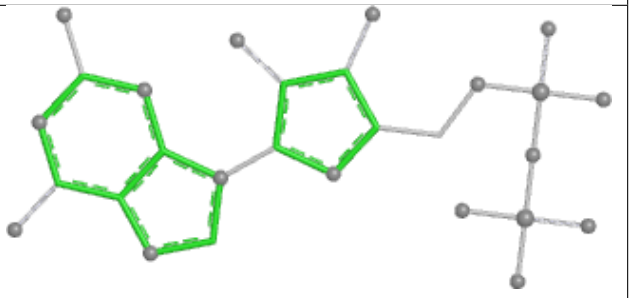

Rings

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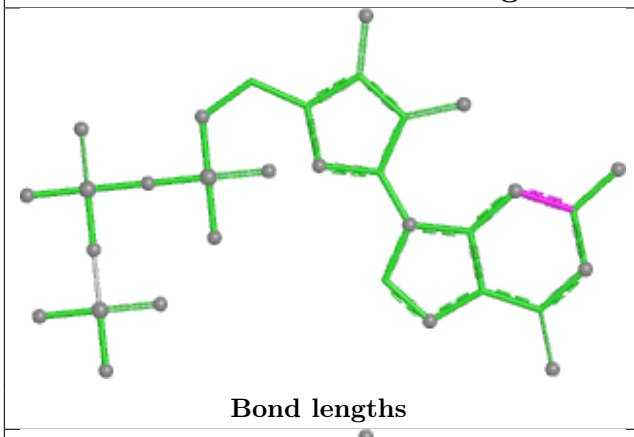

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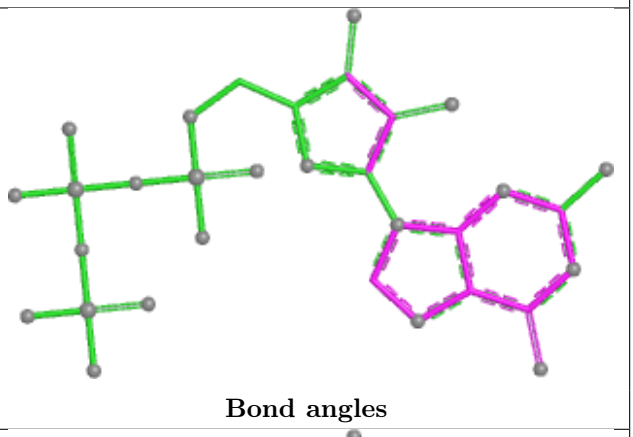

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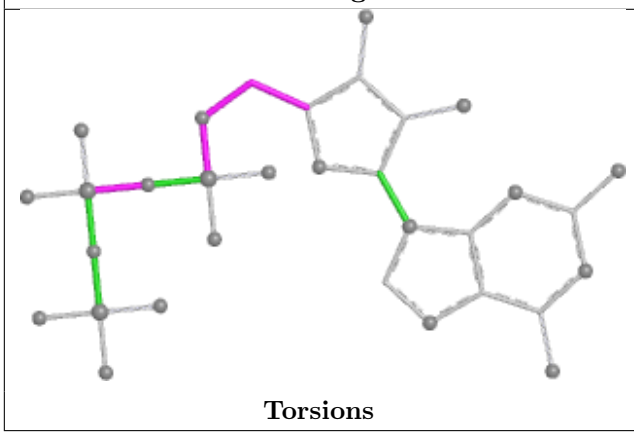

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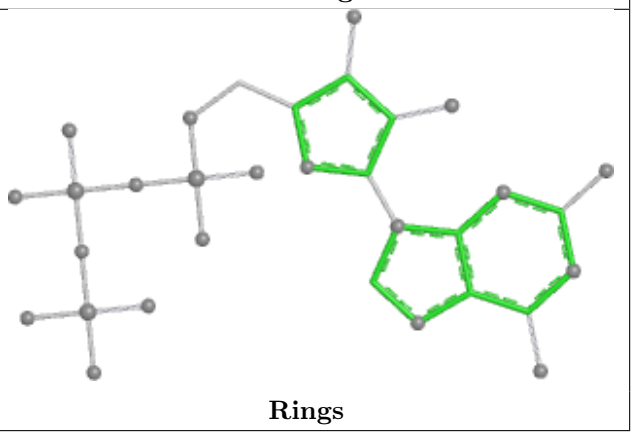
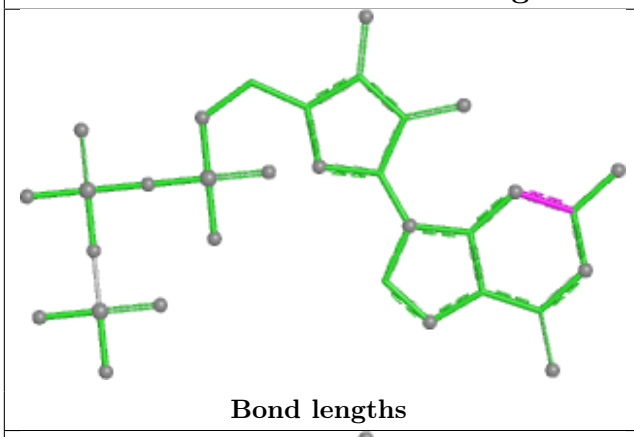


Rings

Ligand GTP RE 501



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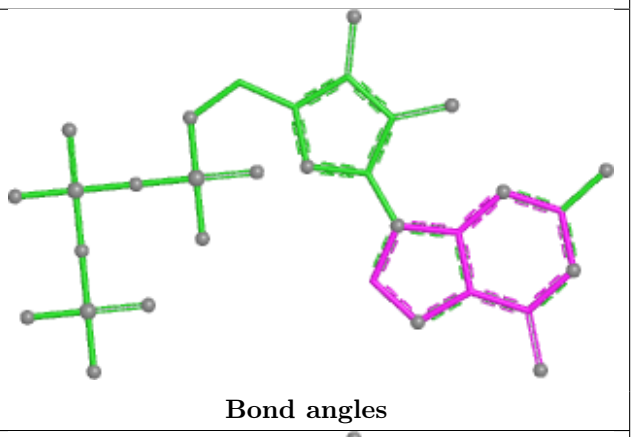

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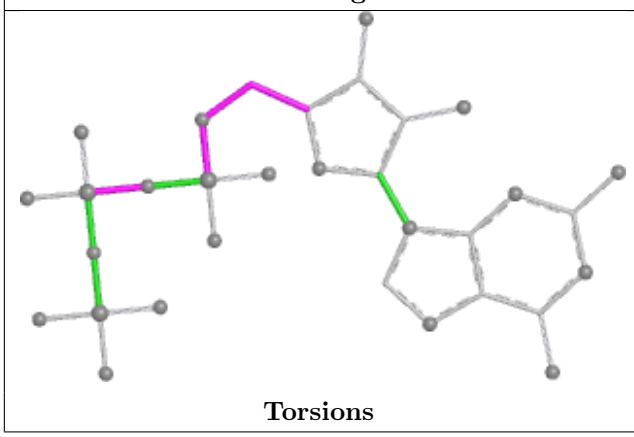

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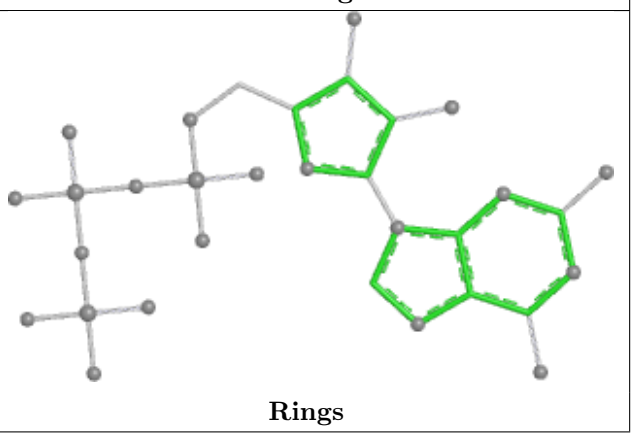

Rings

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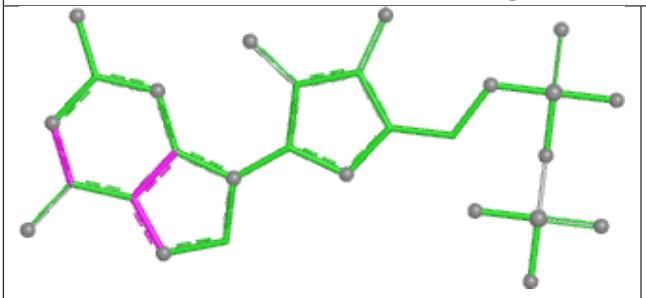

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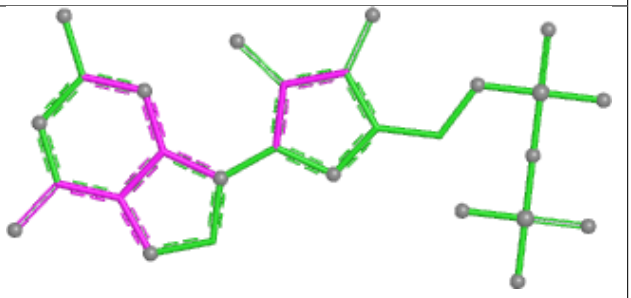

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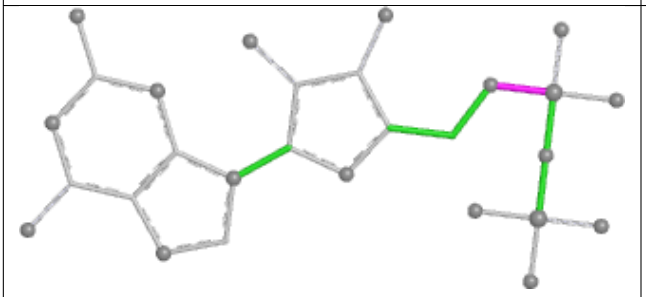

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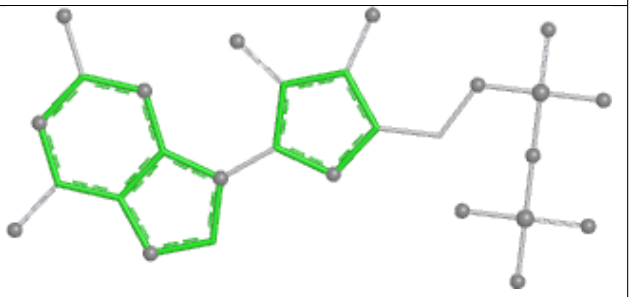

Rings

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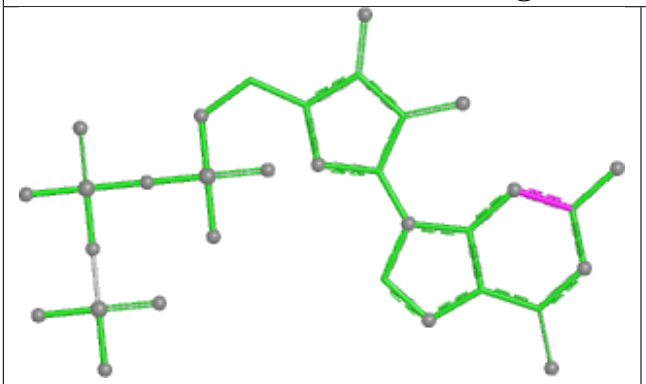

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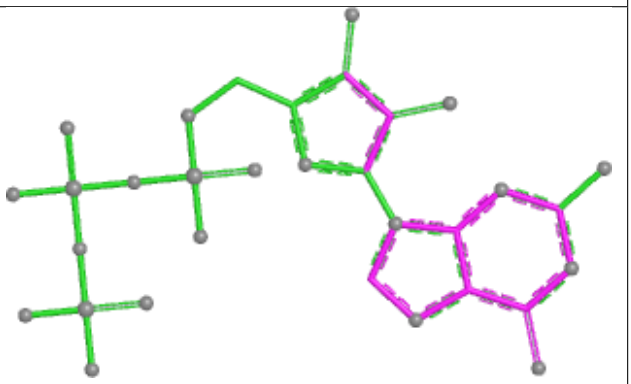

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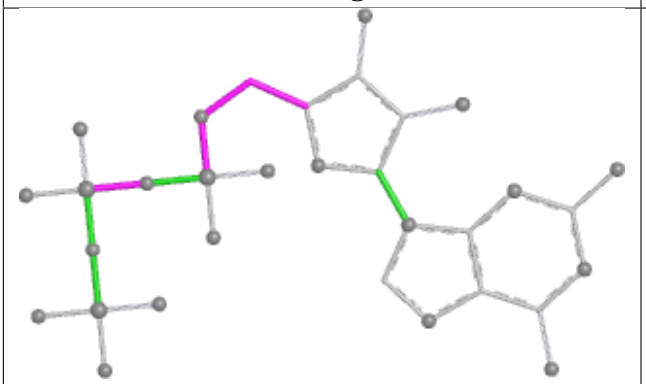

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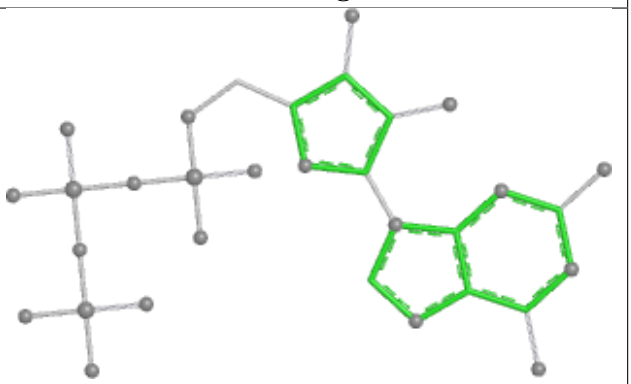
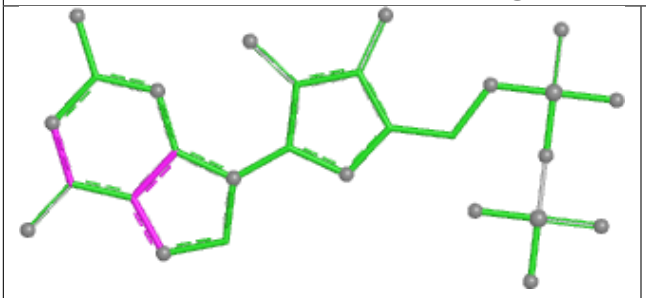


Rings

Ligand GDP CB 502



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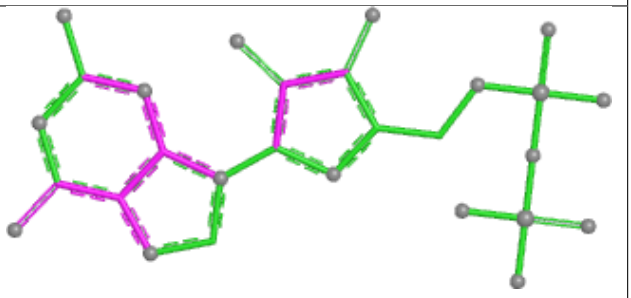

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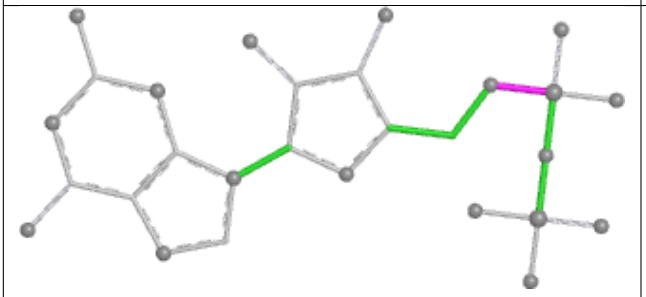

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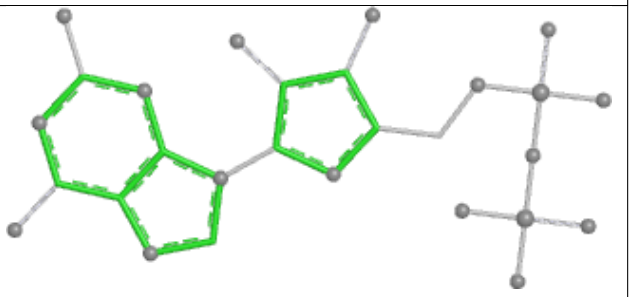
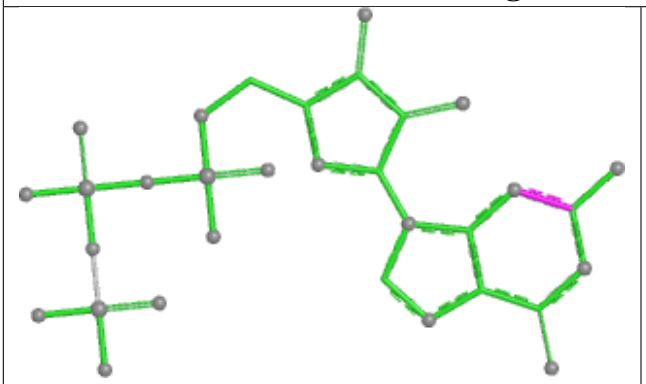


Rings

Ligand GTP KM 501



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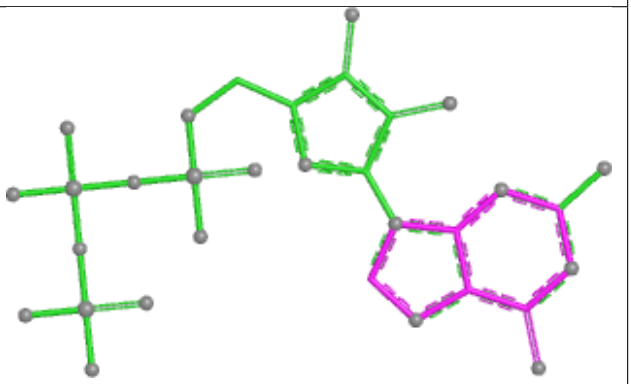

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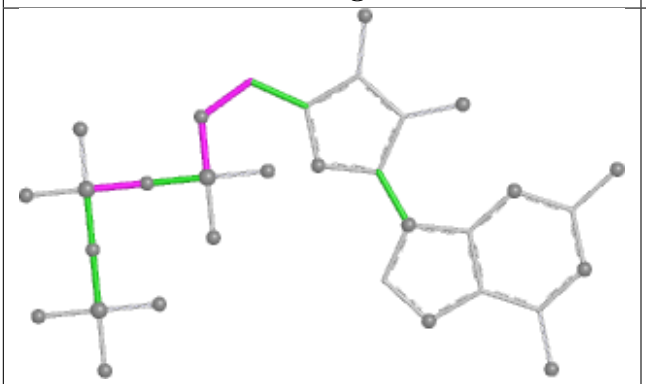

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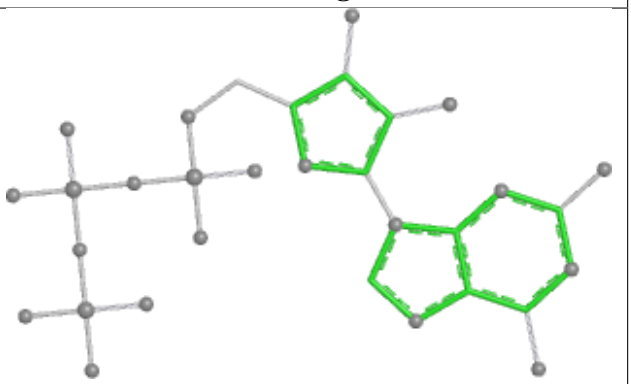
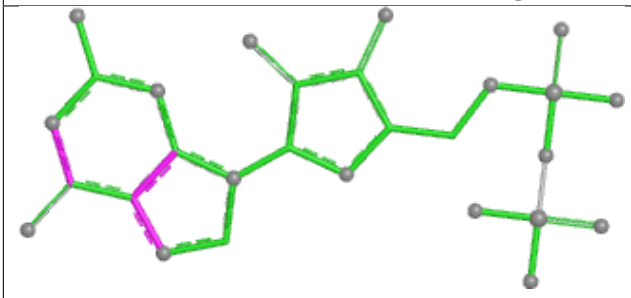


Rings

Ligand GDP VF 502



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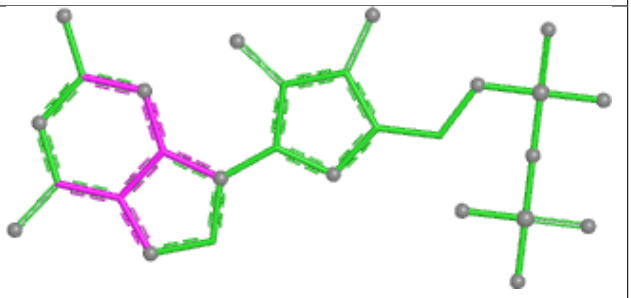

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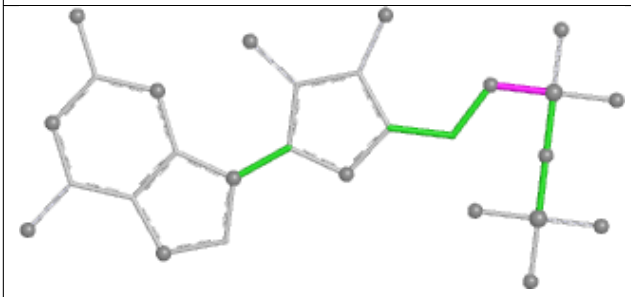

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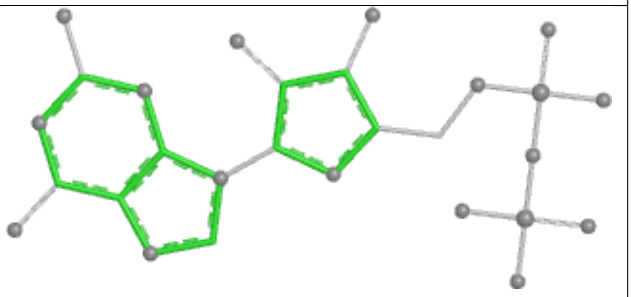
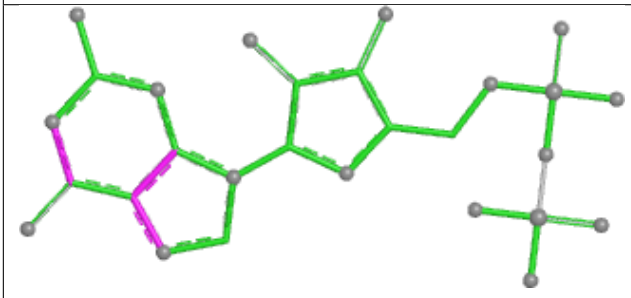


Rings

Ligand GDP HJ 502



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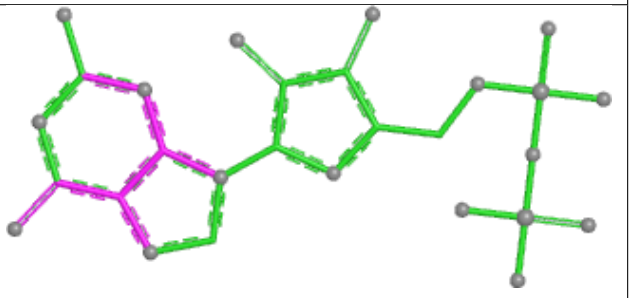
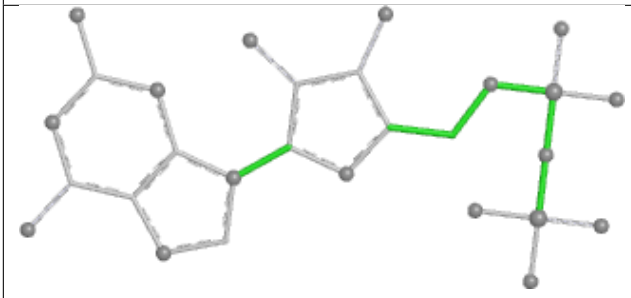


Bond angles



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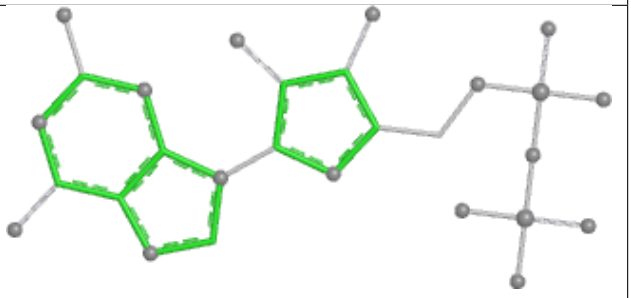
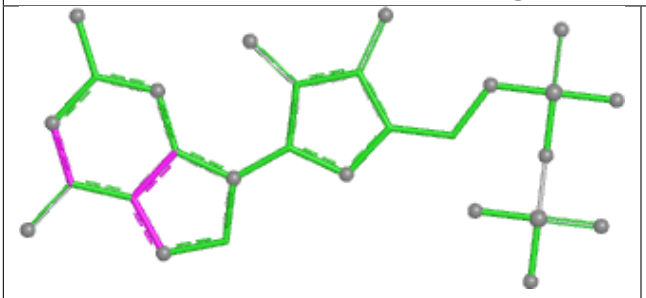


Rings

Ligand GDP CP 502



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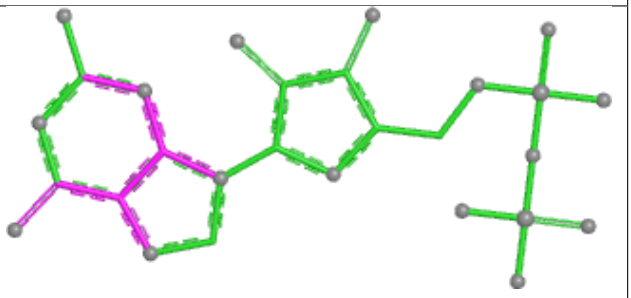

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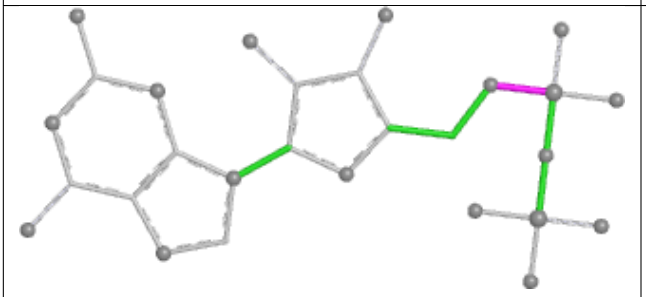
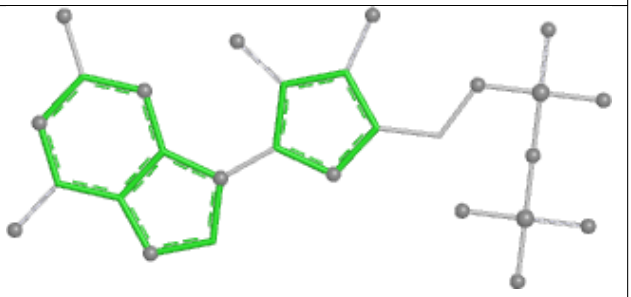
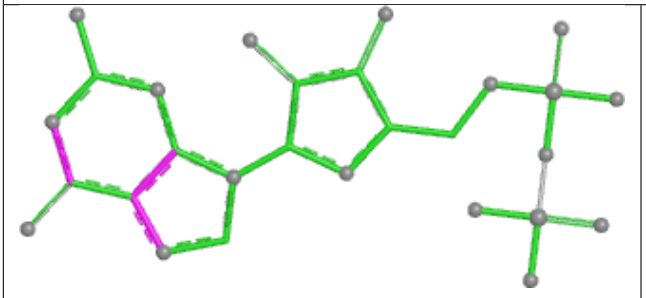


Torsions



Rings

Ligand GDP RP 502



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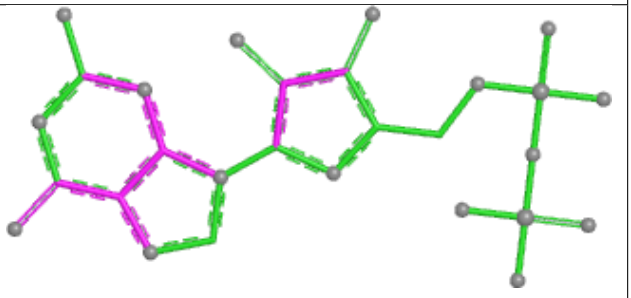

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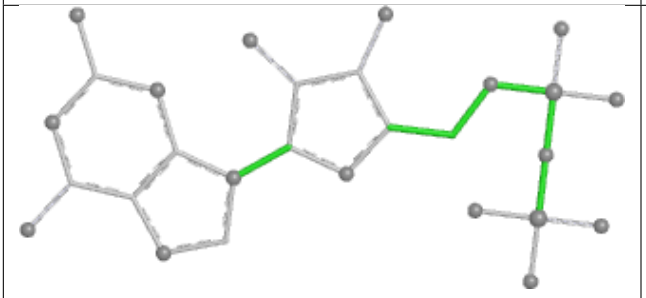

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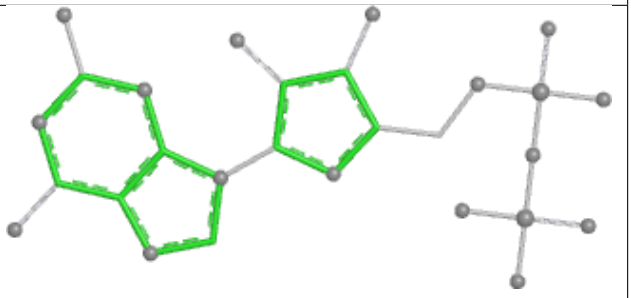
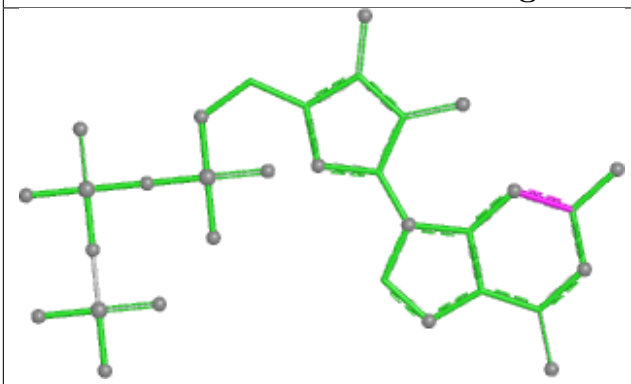


Rings

Ligand GTP SI 501



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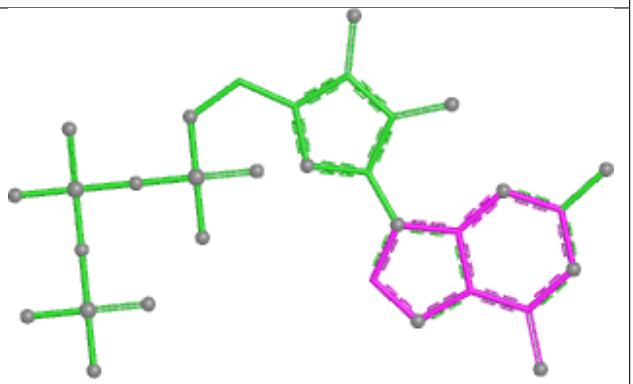

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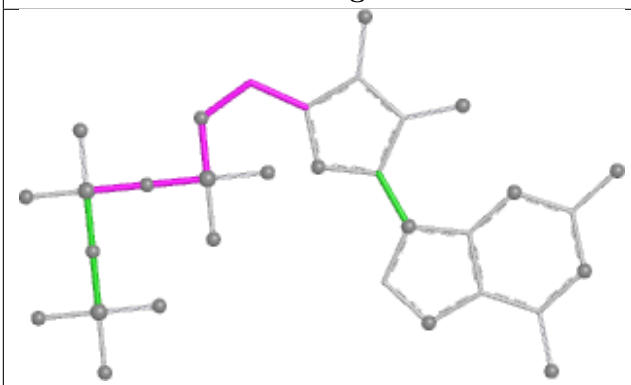

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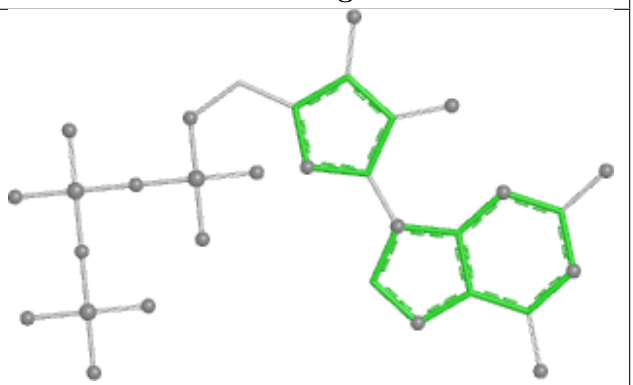
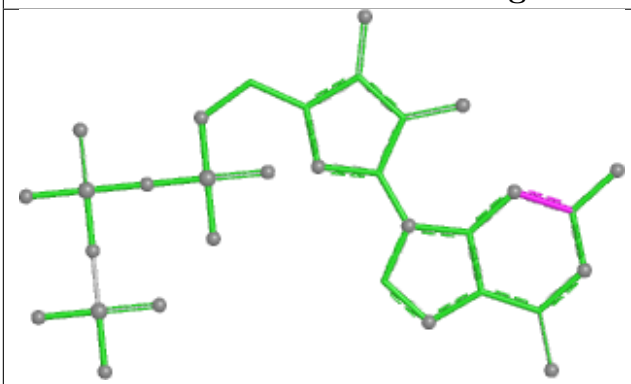


Rings

Ligand GTP OO 501



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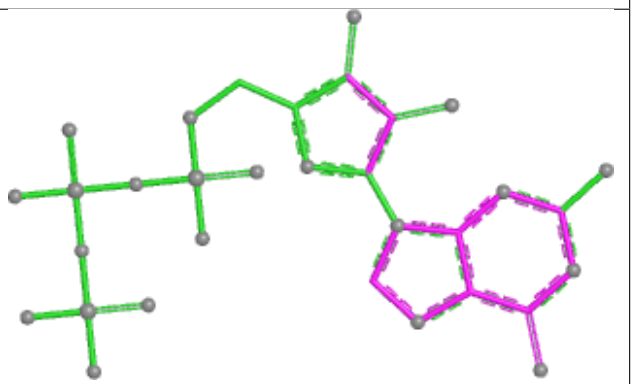

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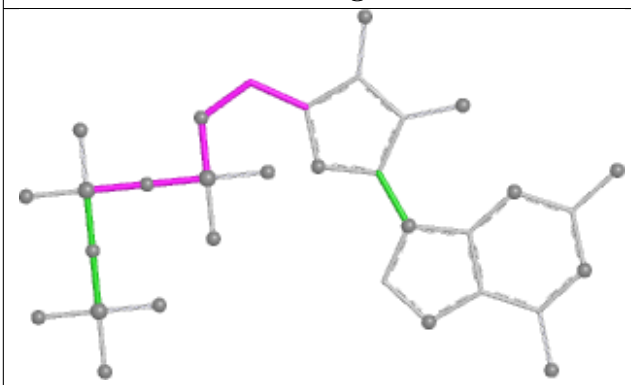

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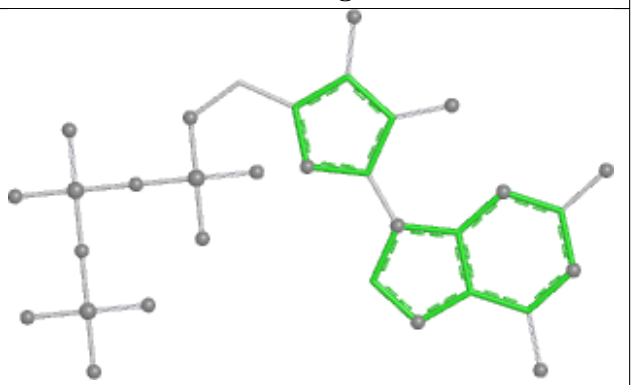
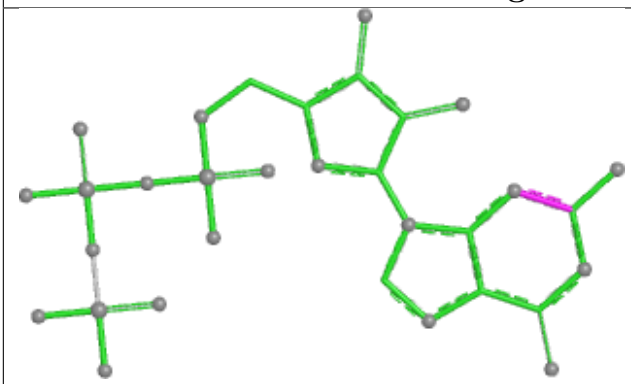


Rings

Ligand GTP QK 501



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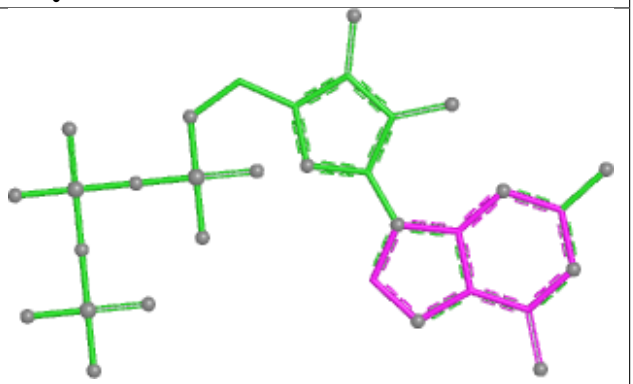

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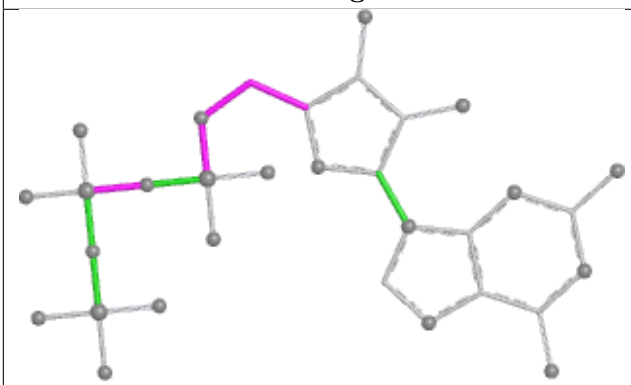

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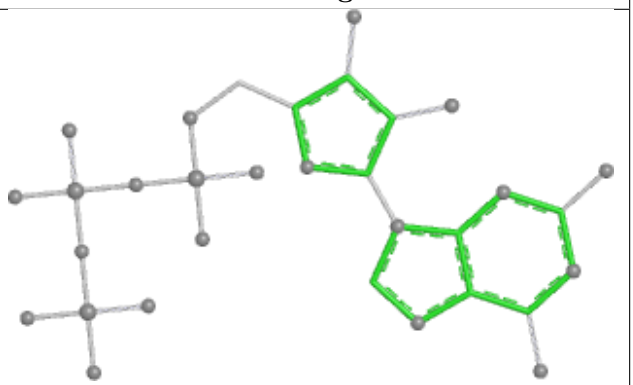
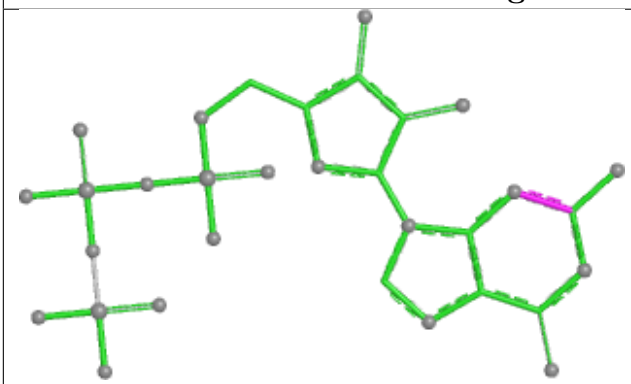


Rings

Ligand GTP GK 501



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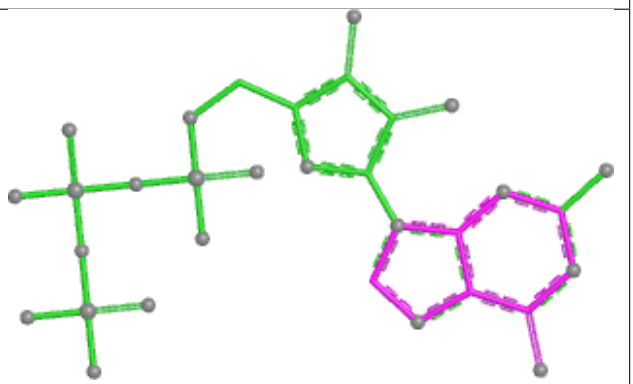

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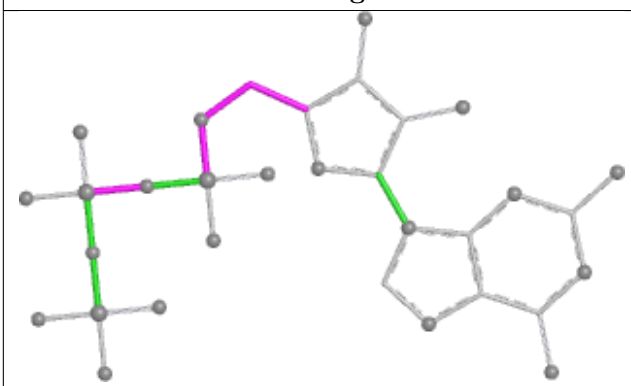

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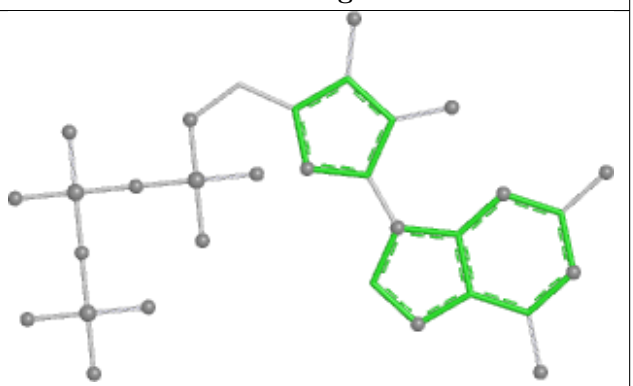
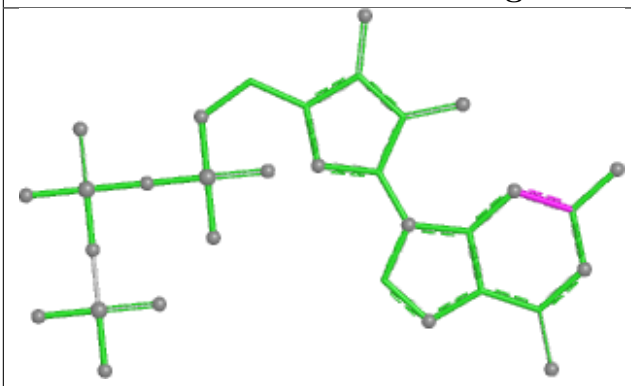


Rings

Ligand GTP WE 501



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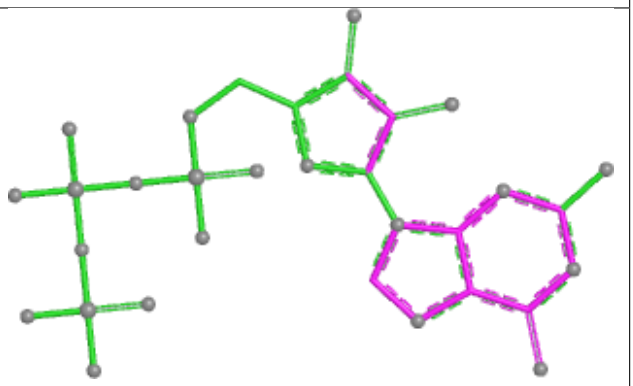

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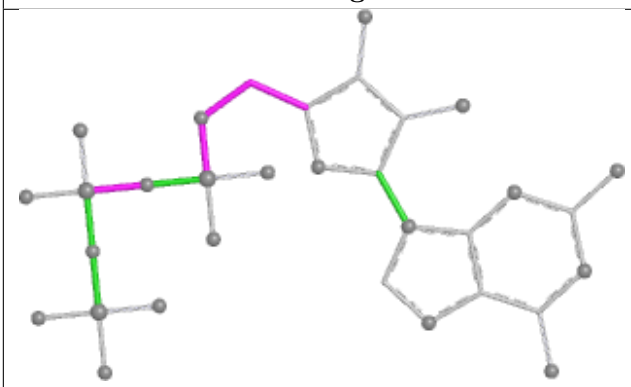

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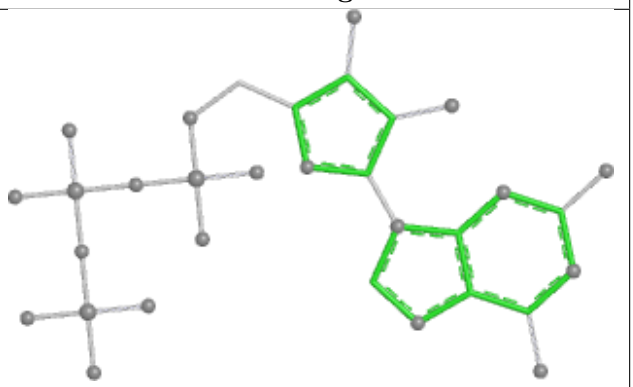

Rings

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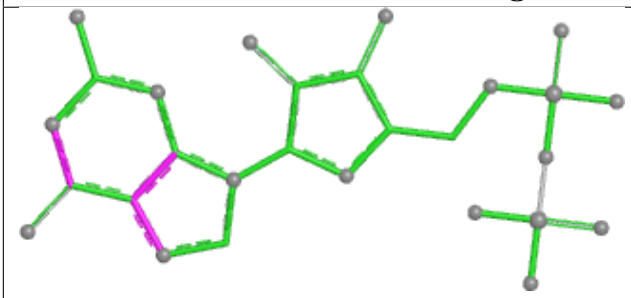

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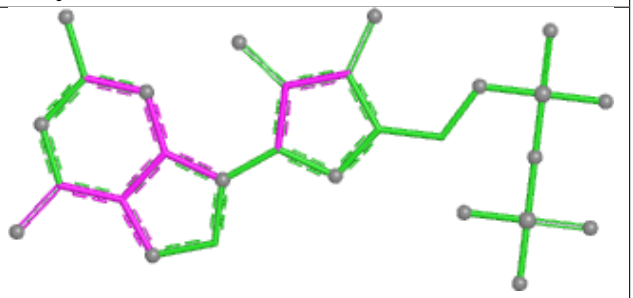

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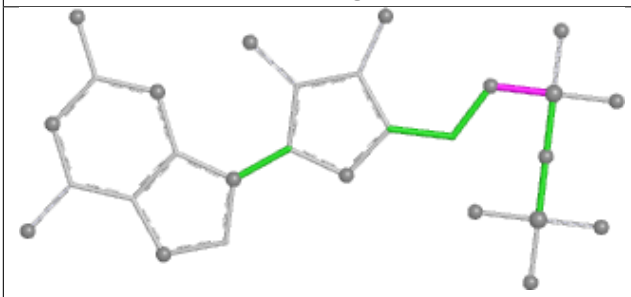

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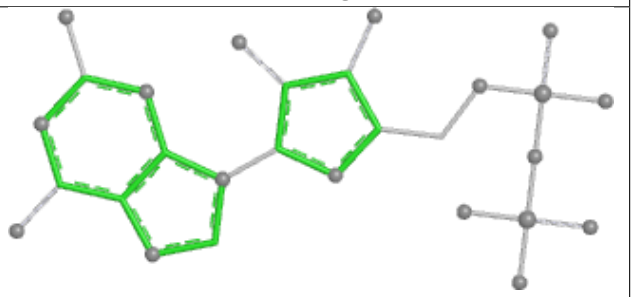

Rings

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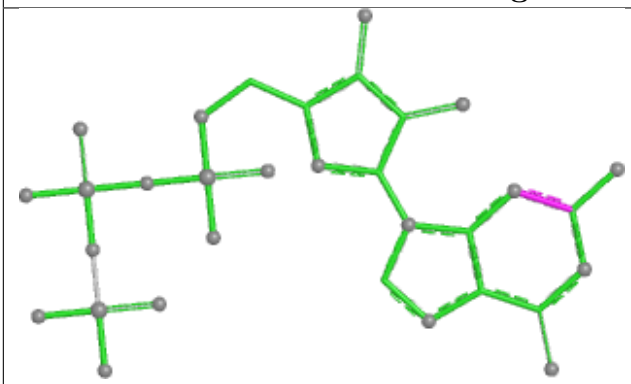

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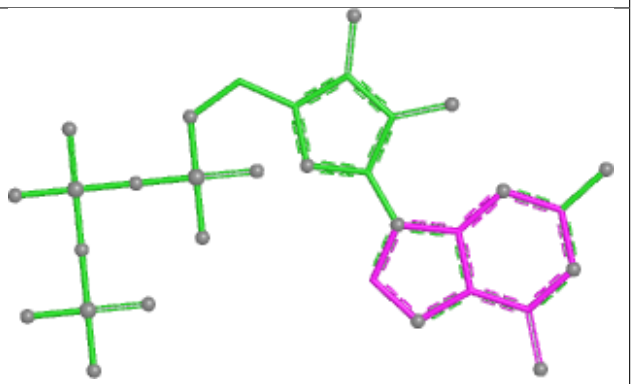

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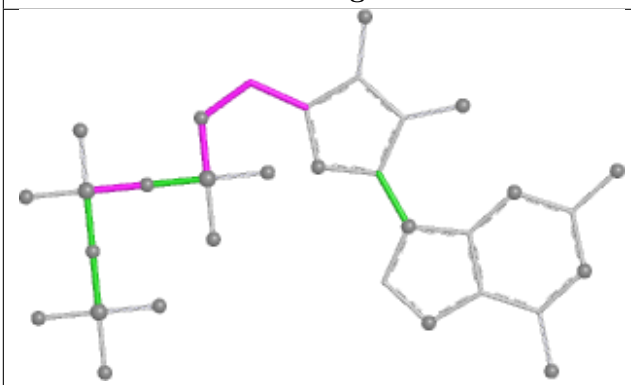

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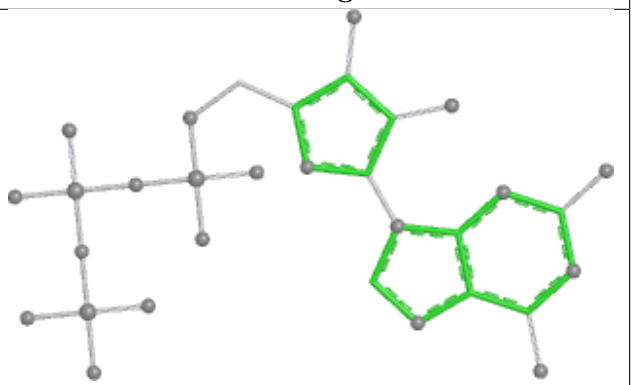

Rings

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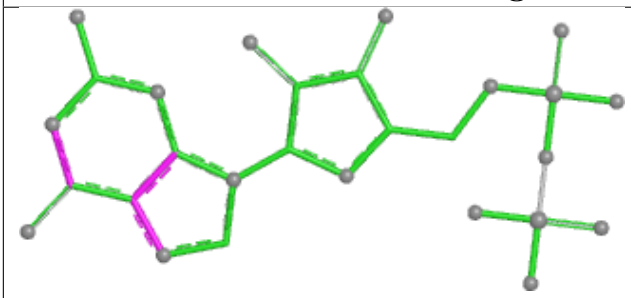

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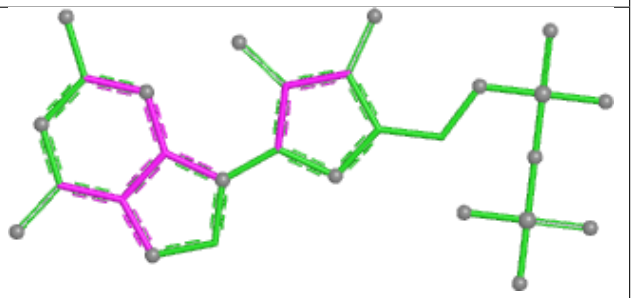

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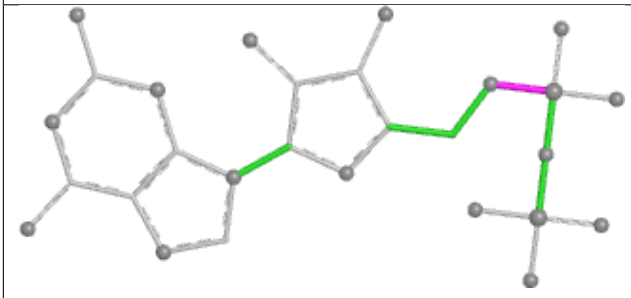

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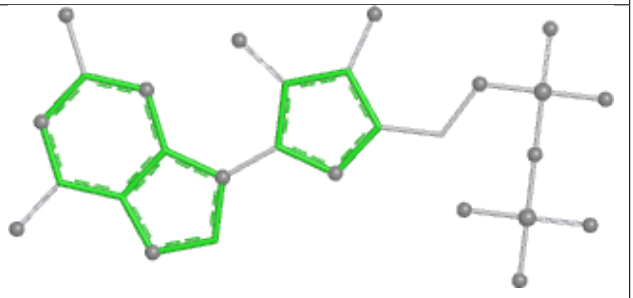

Rings

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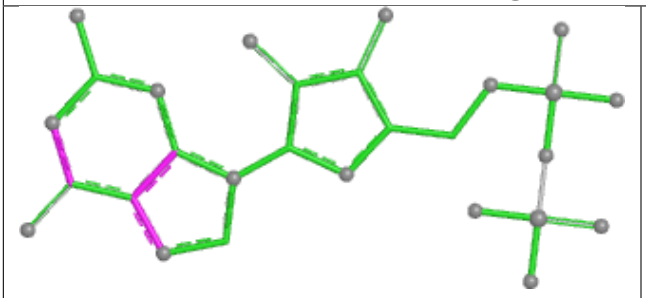

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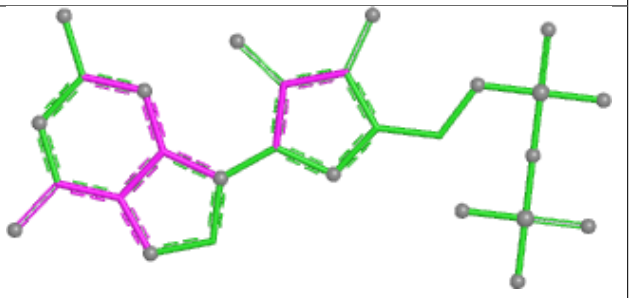

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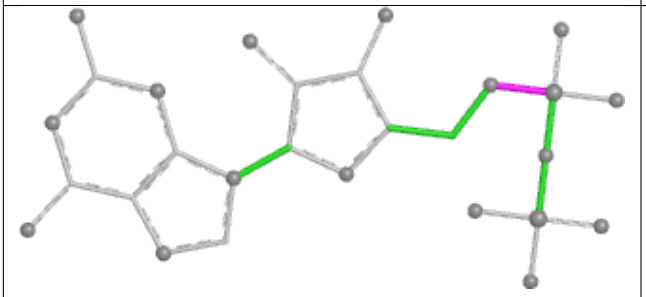

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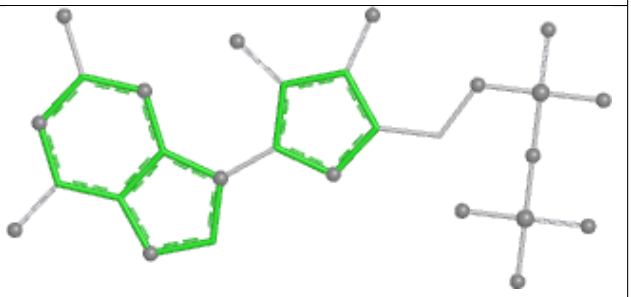

Rings

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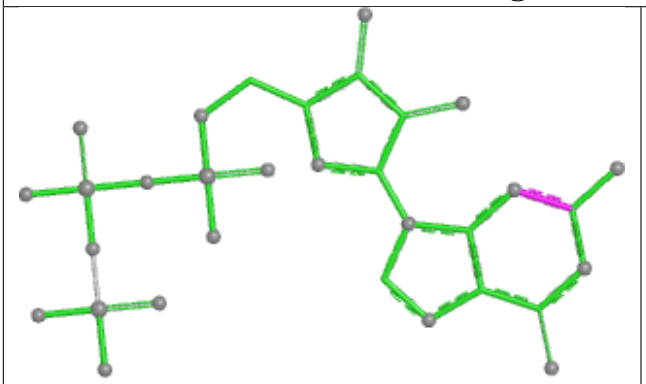

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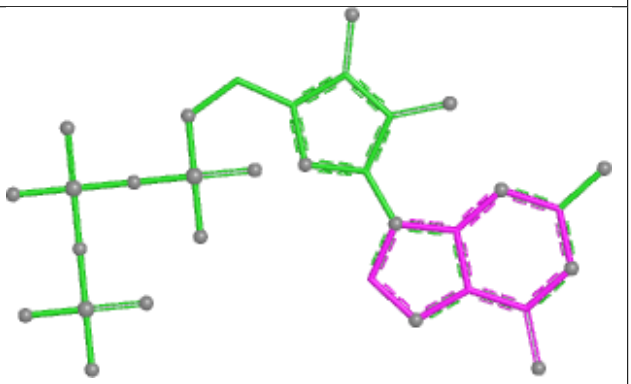

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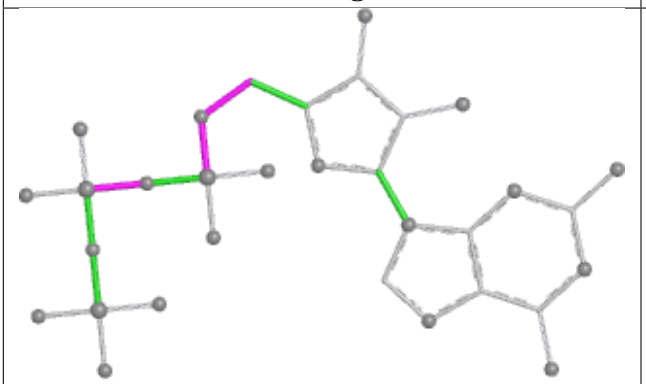

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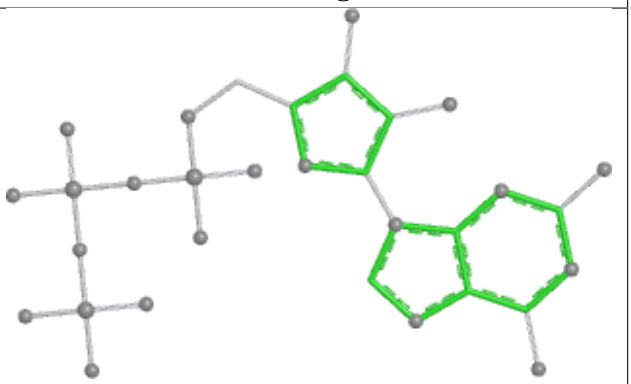
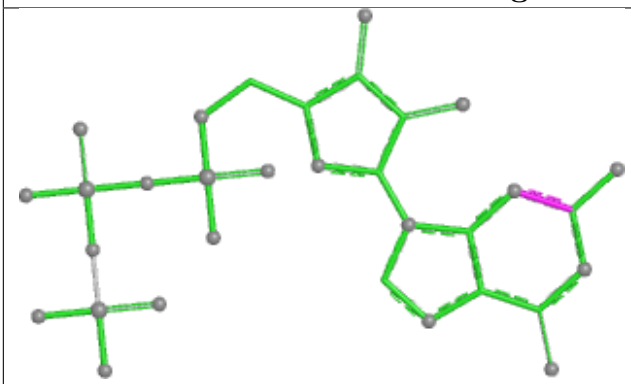


Rings

Ligand GTP FG 501



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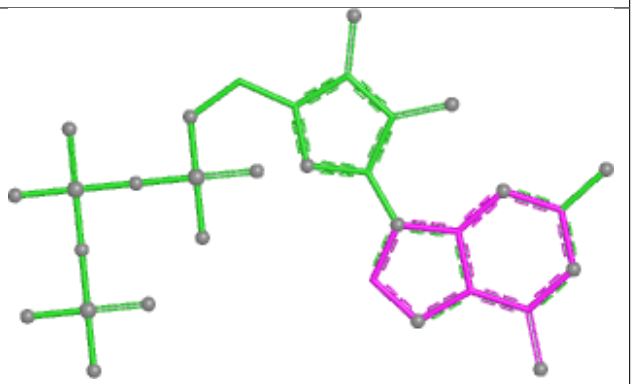

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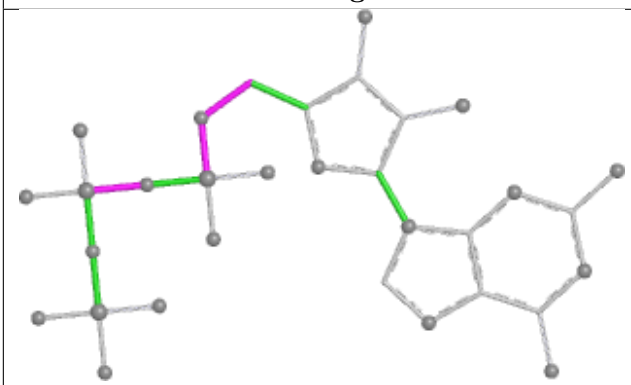

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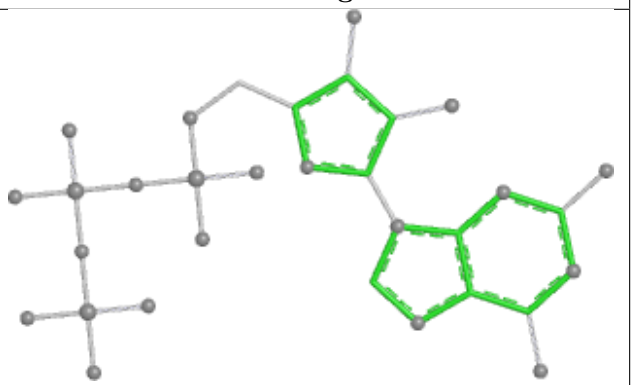
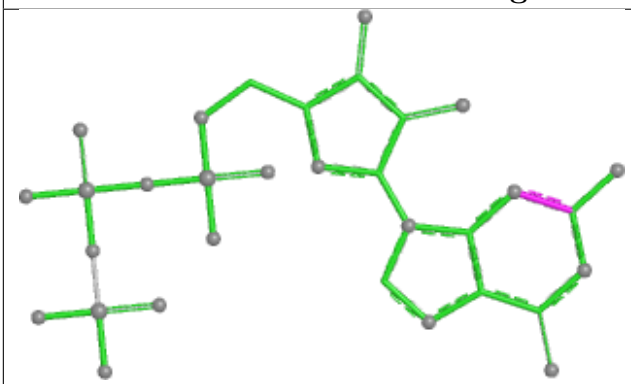


Rings

Ligand GTP EK 501



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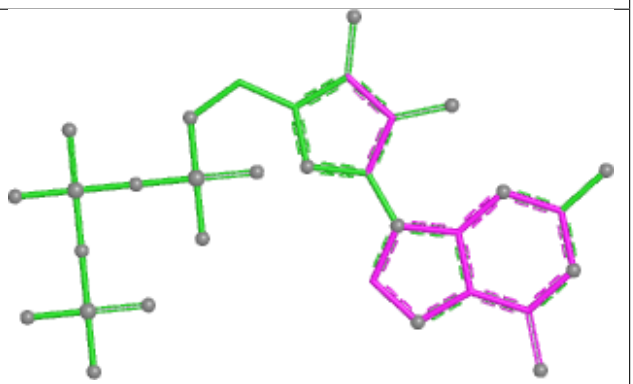

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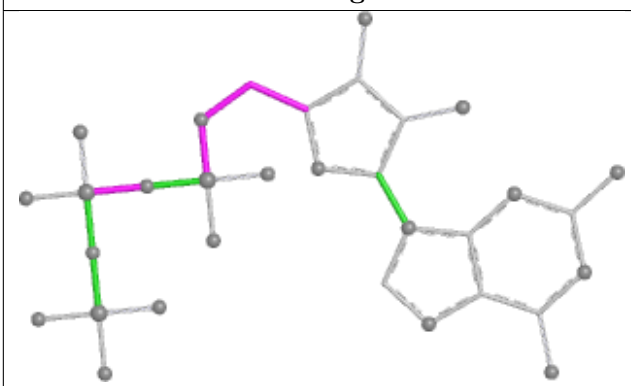

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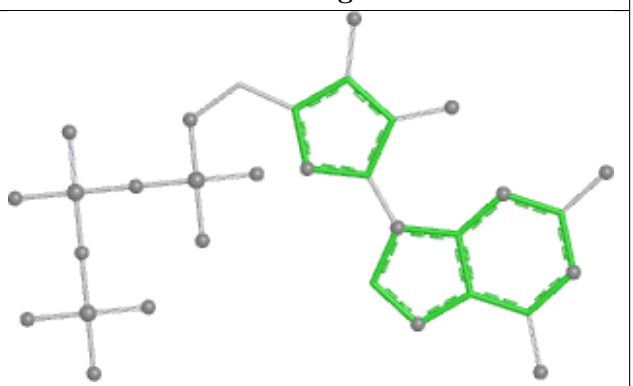
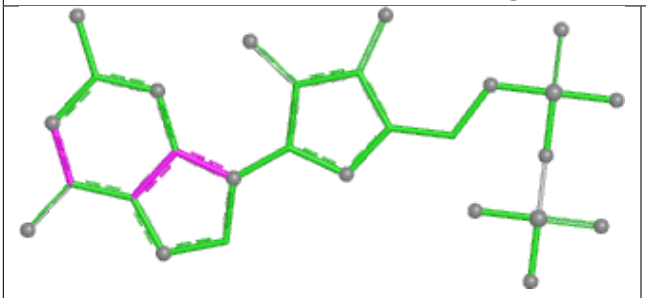


Rings

Ligand GDP MB 502



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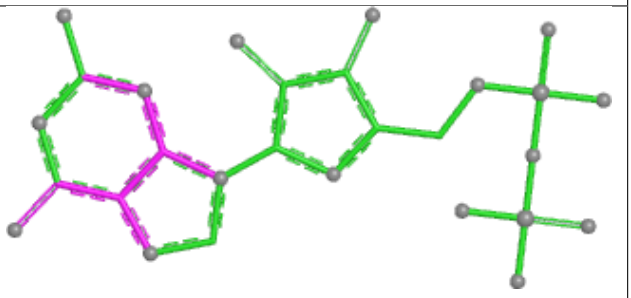

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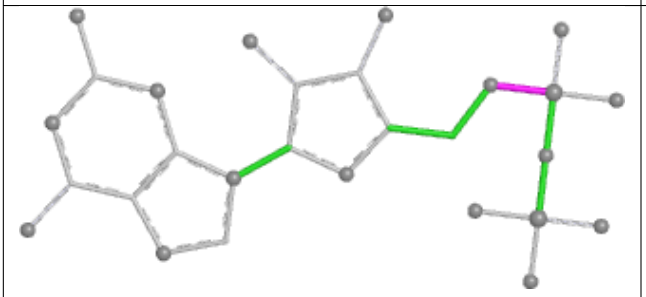
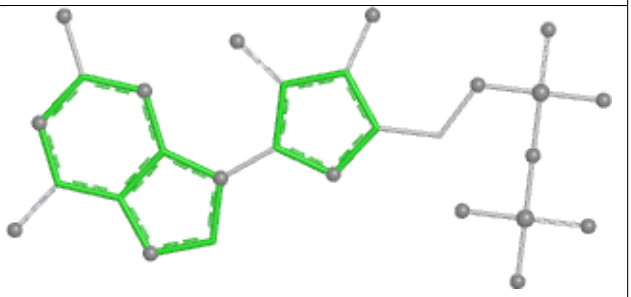
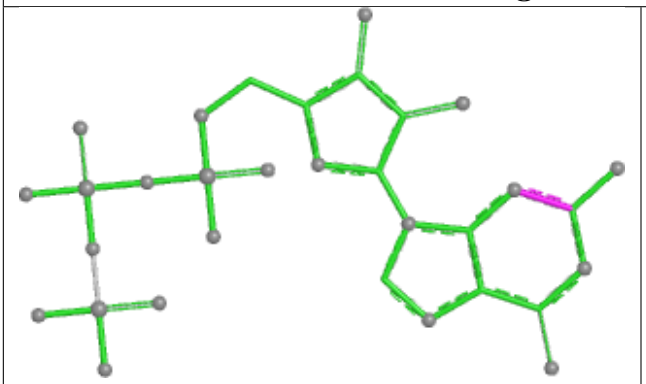


Torsions



Rings

Ligand GTP AI 501



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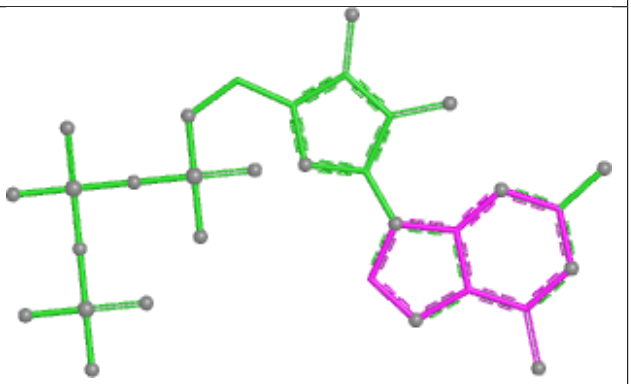

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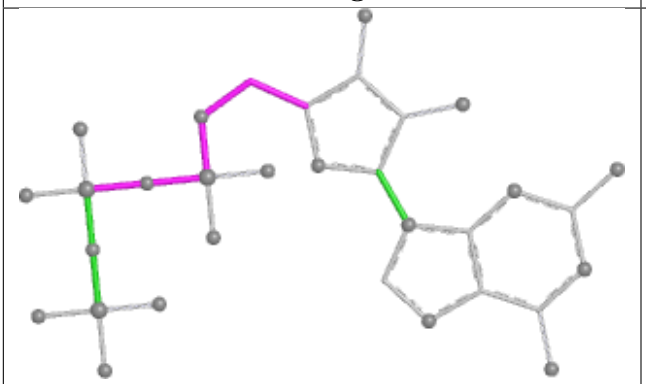

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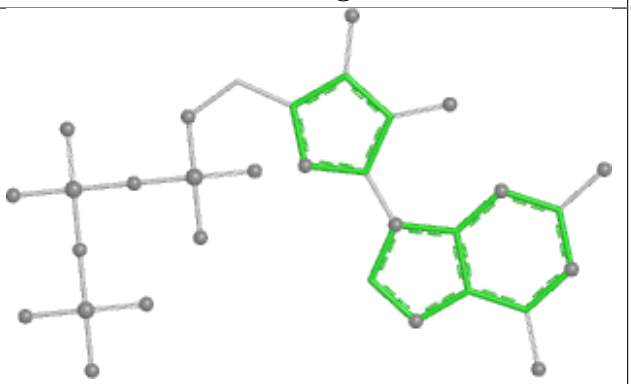
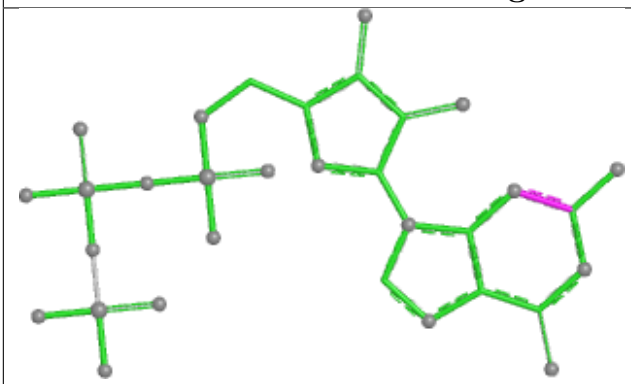


Rings

Ligand GTP UA 501



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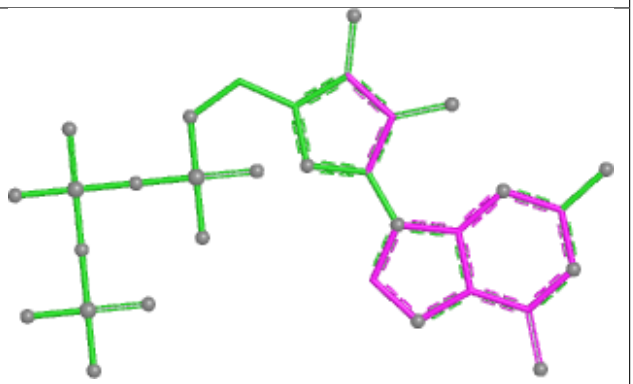

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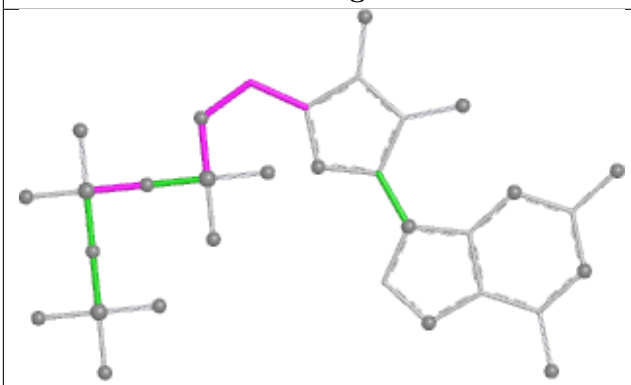

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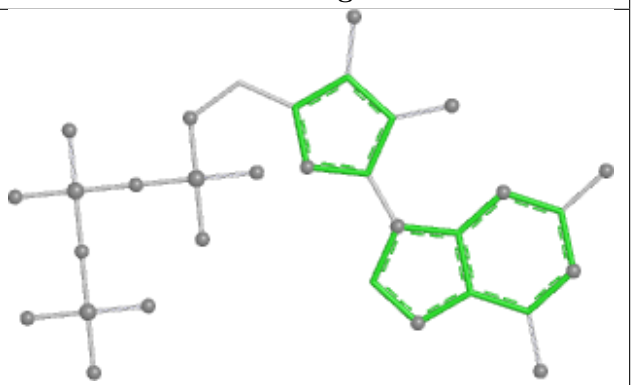
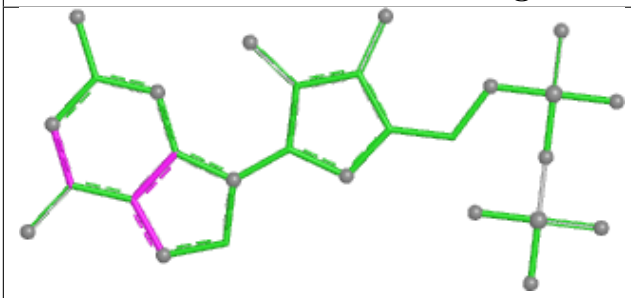


Rings

Ligand GDP PJ 502



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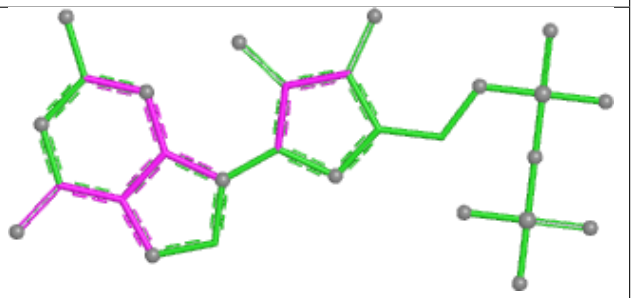

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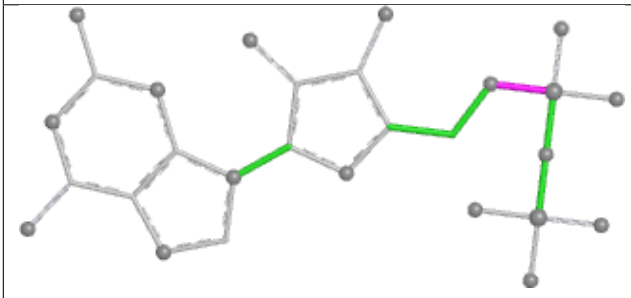

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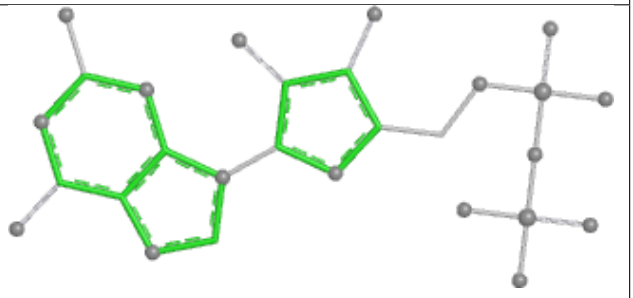
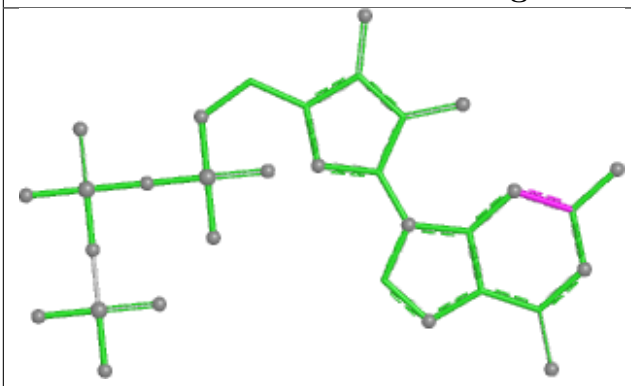


Rings

Ligand GTP PC 501



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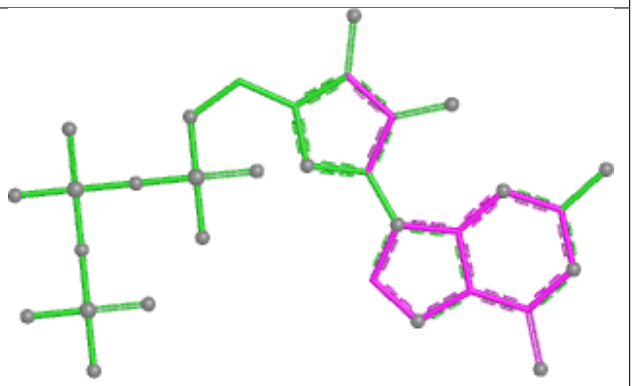

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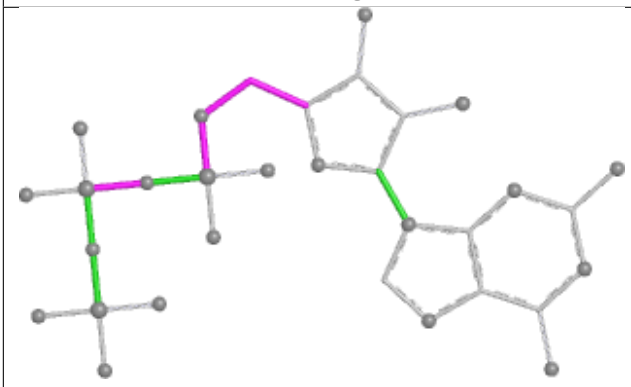

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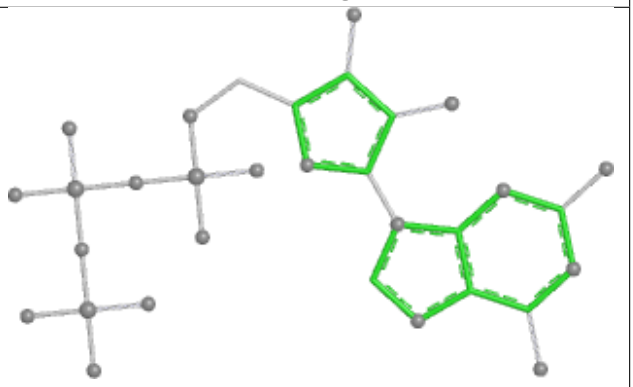

Rings

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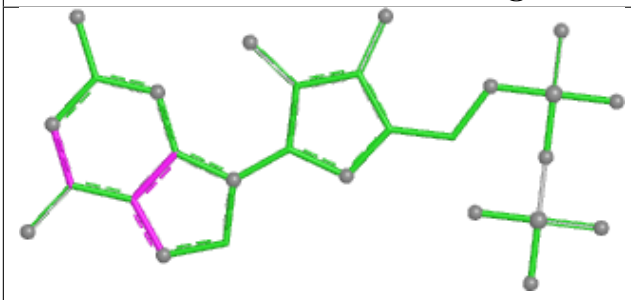

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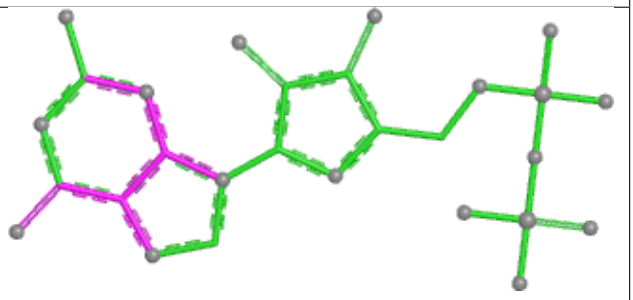

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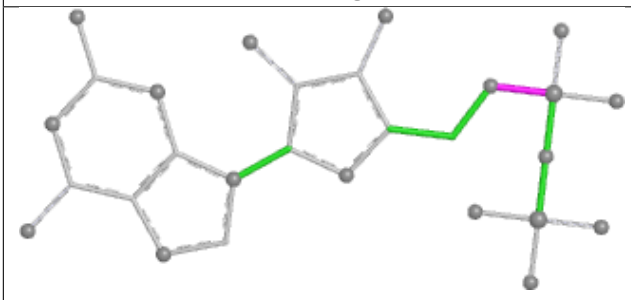

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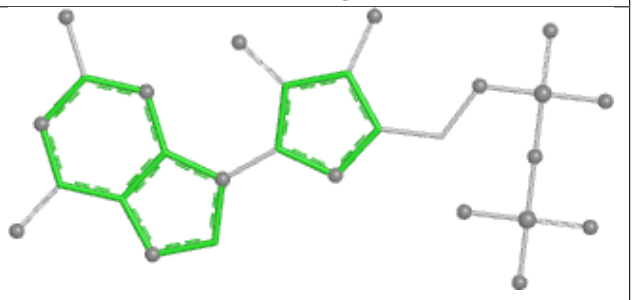
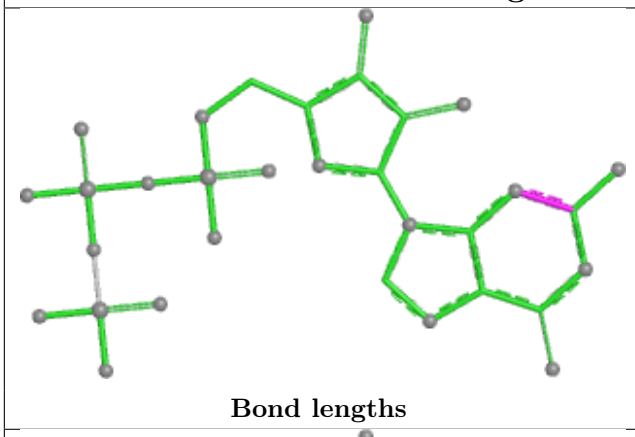


Rings

Ligand GTP TM 501



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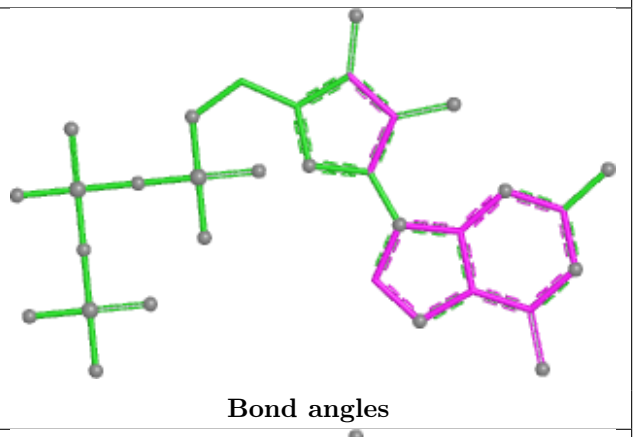

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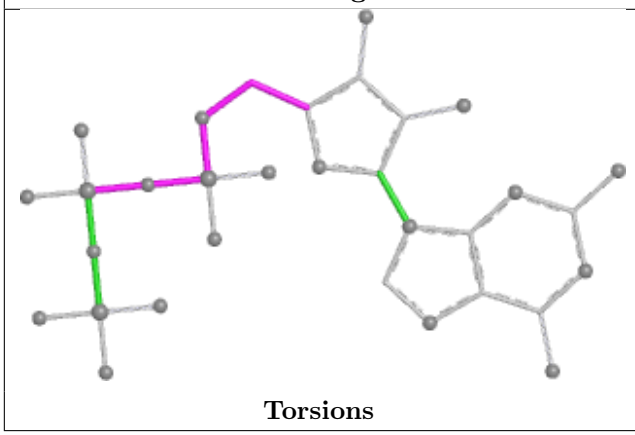

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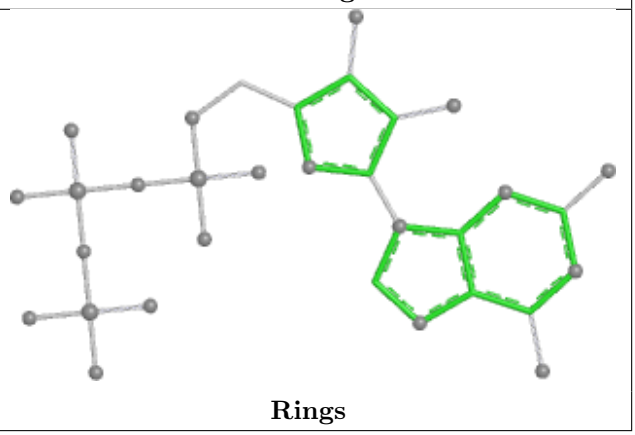

Rings

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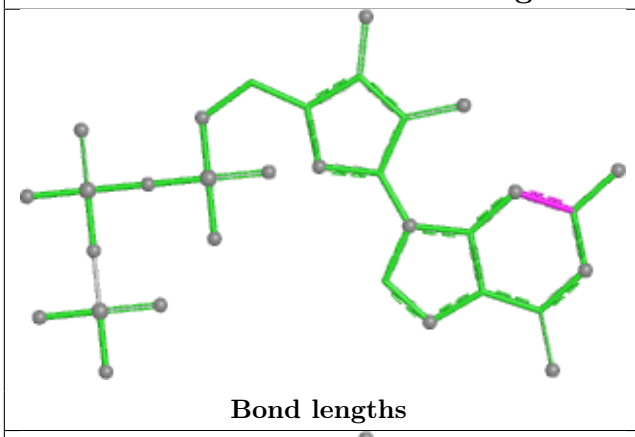

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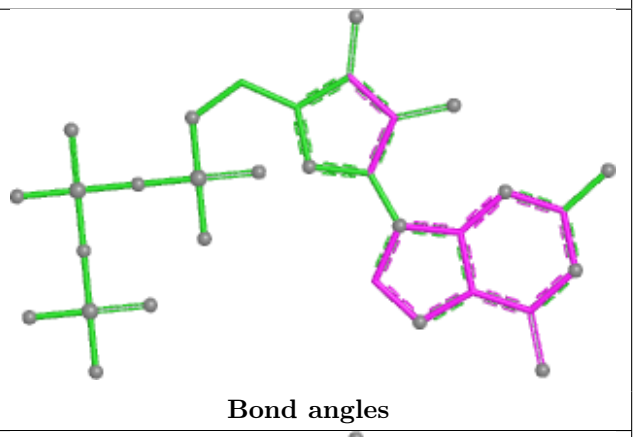

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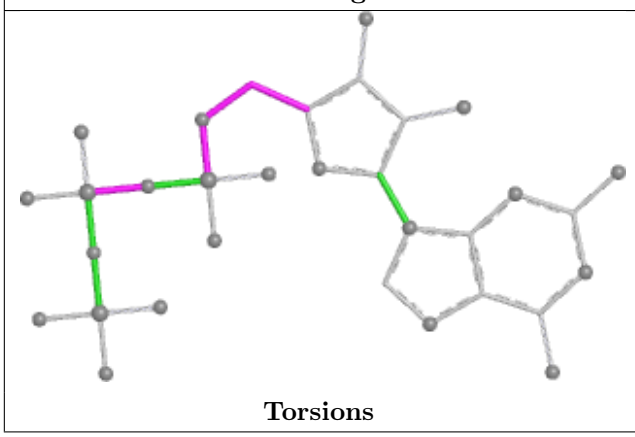

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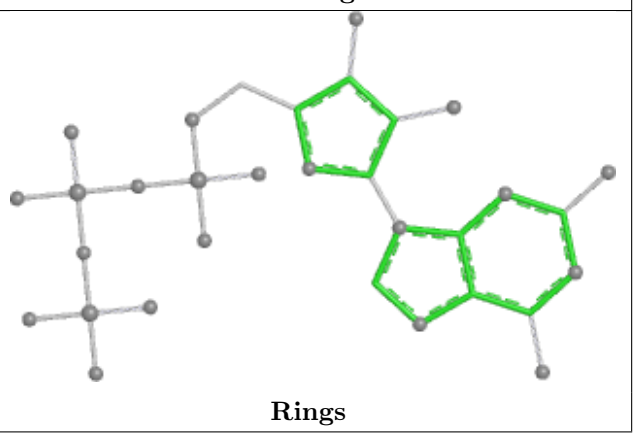

Rings

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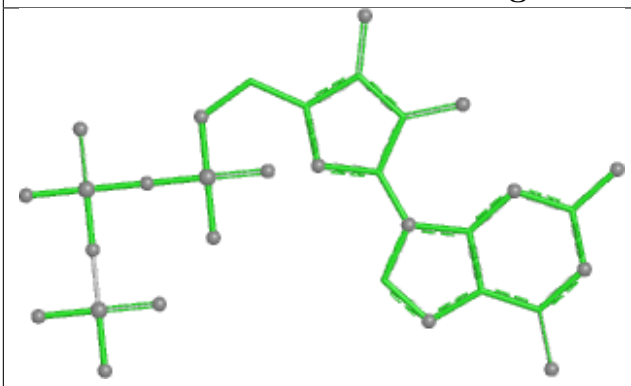

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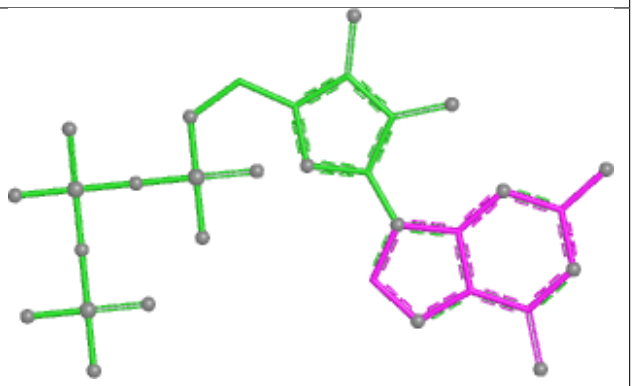

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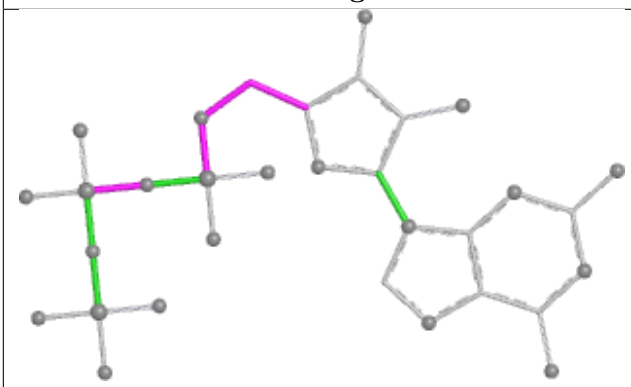

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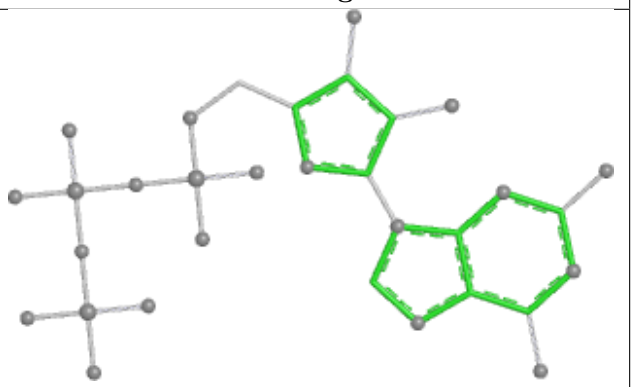
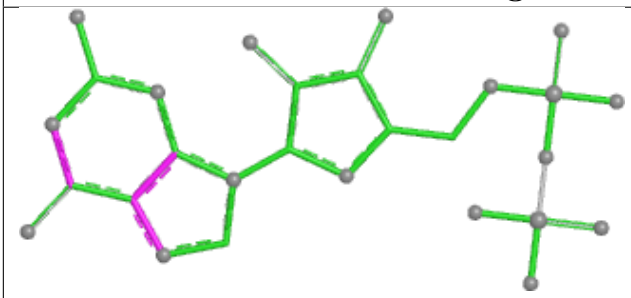


Rings

Ligand GDP GD 502



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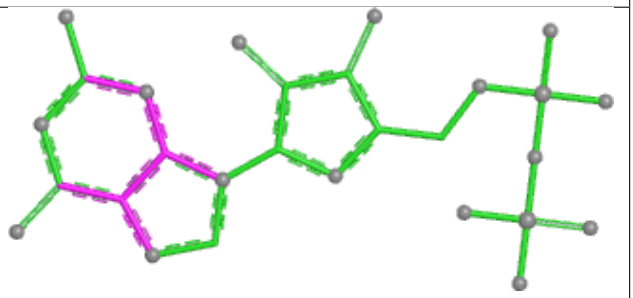

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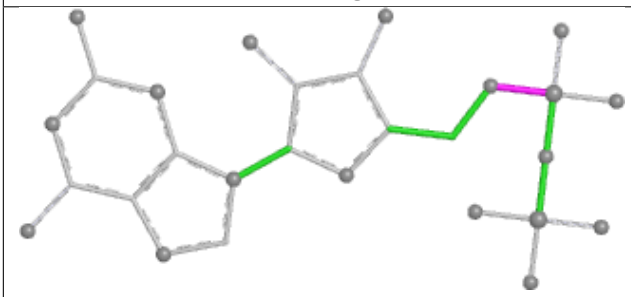

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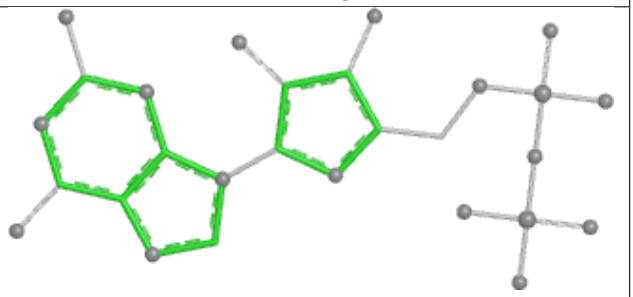

Rings

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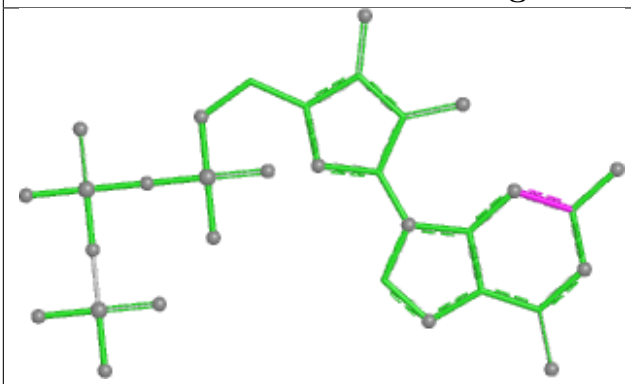

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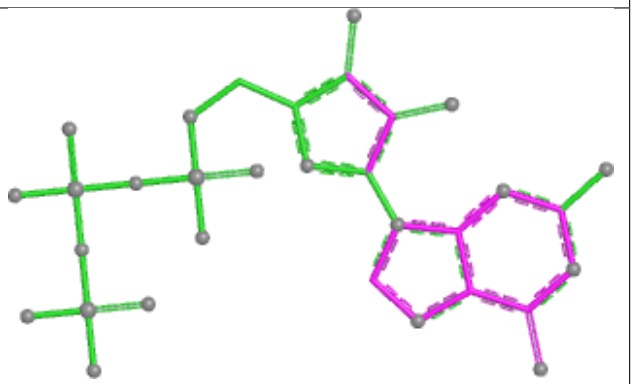

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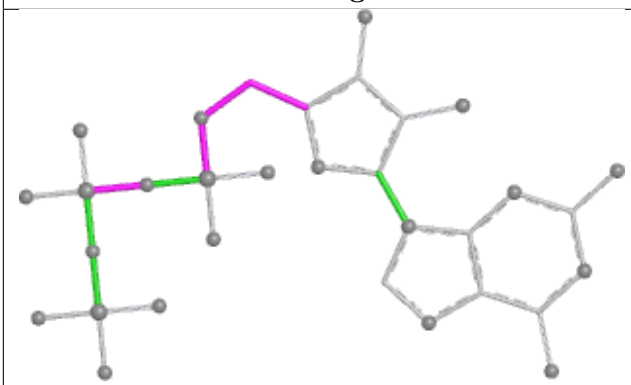

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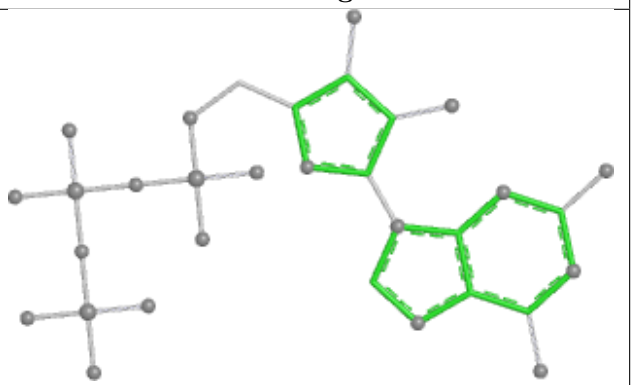

Rings

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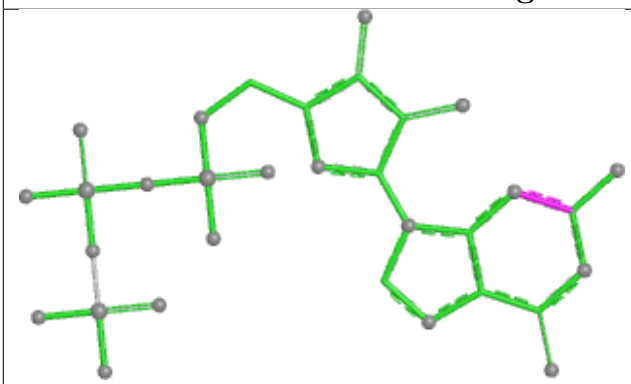

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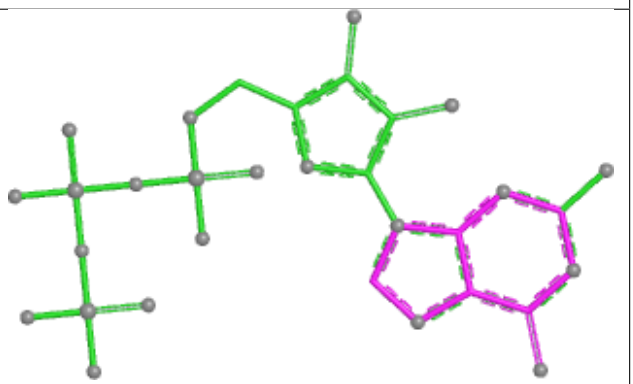

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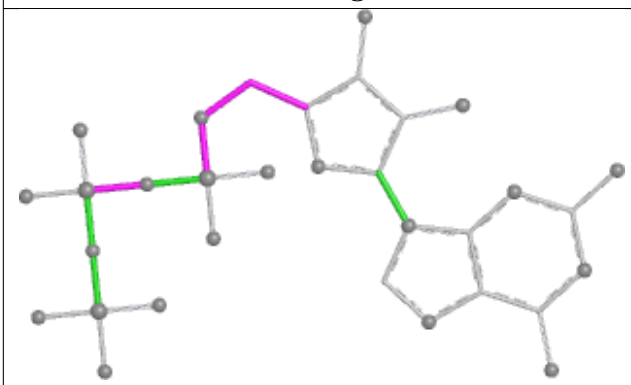

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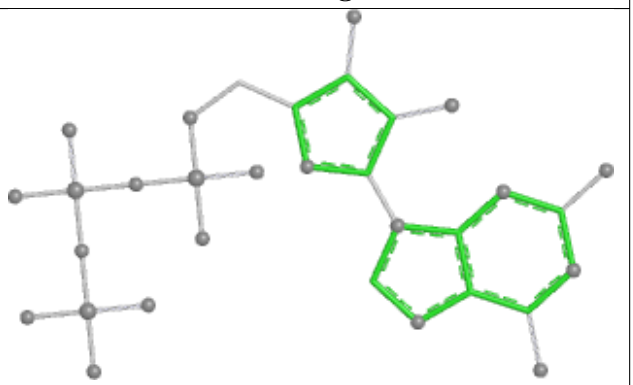
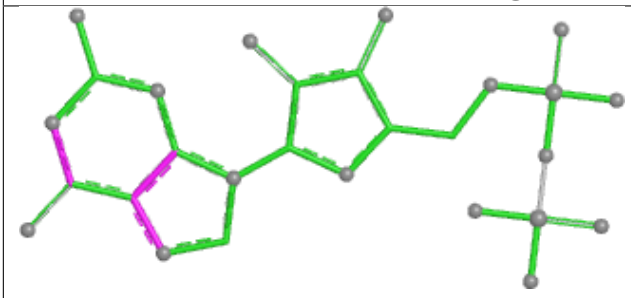
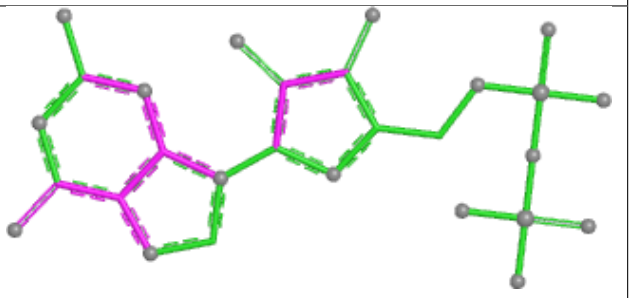
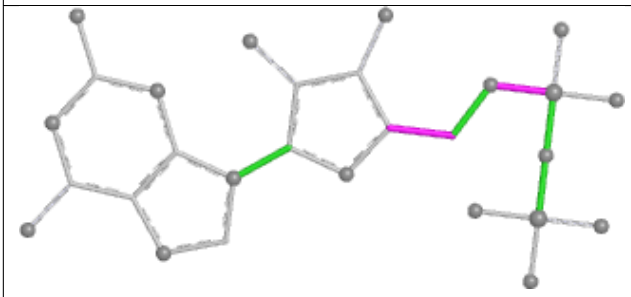
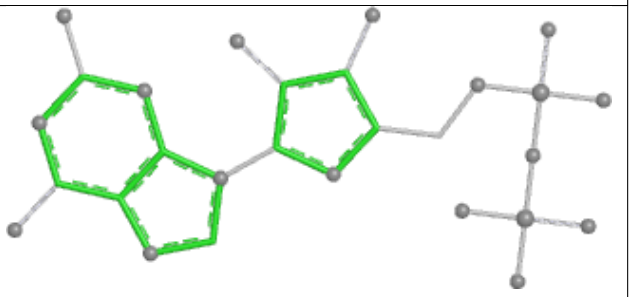
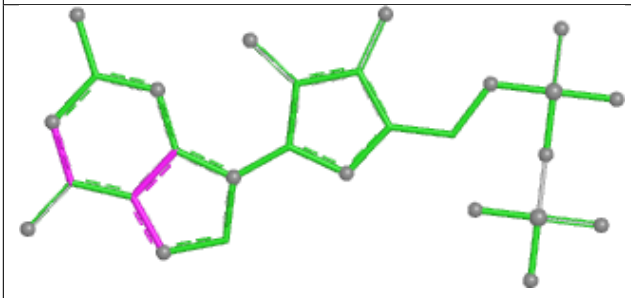
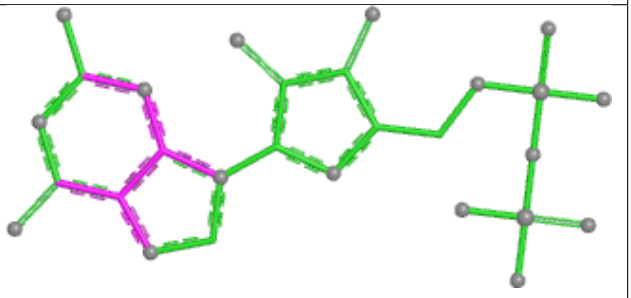
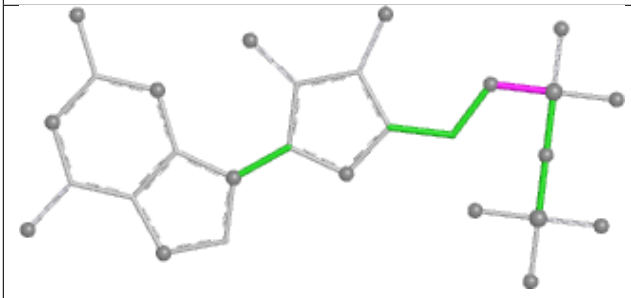
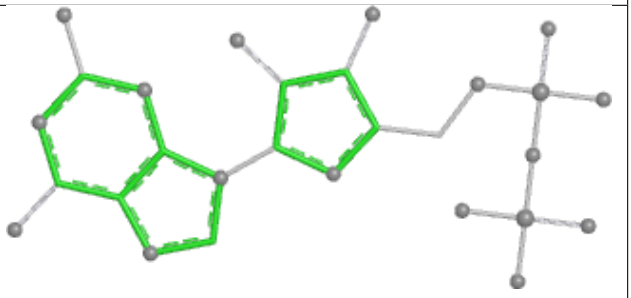
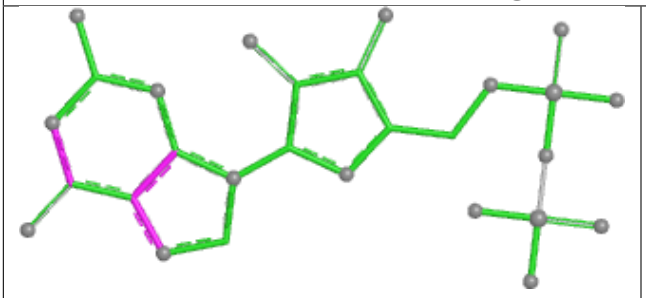


Rings

Ligand GDP OH 502	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP WF 502	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP PD 502



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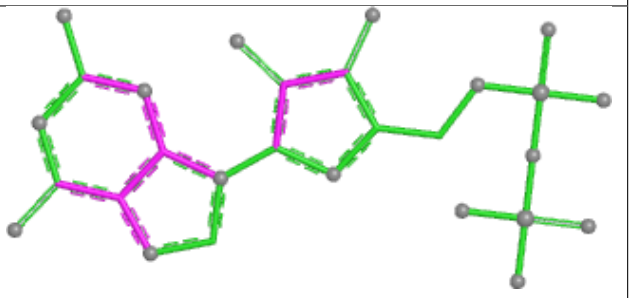

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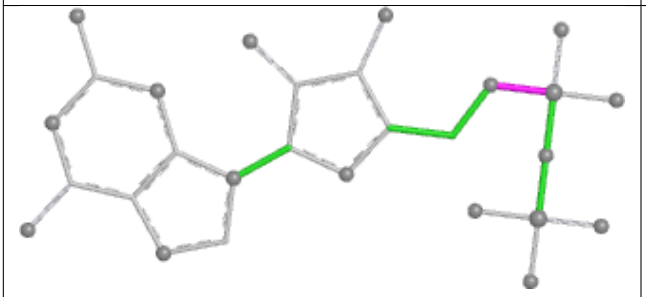

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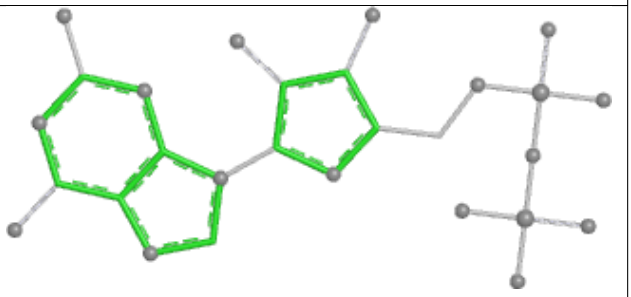
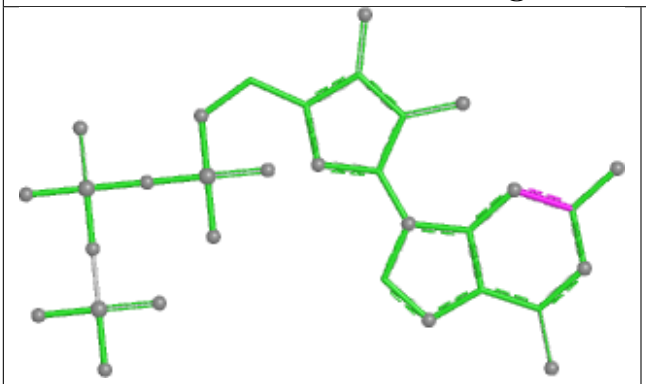


Rings

Ligand GTP KA 501



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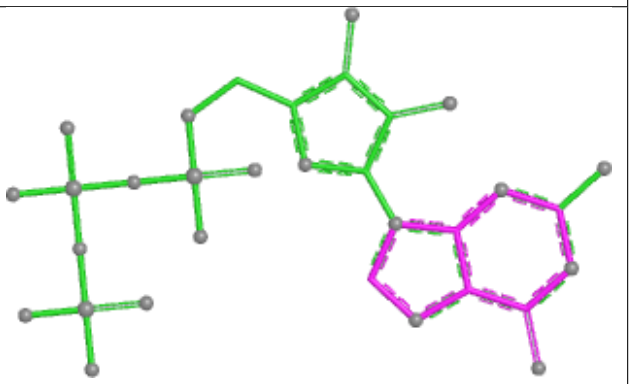

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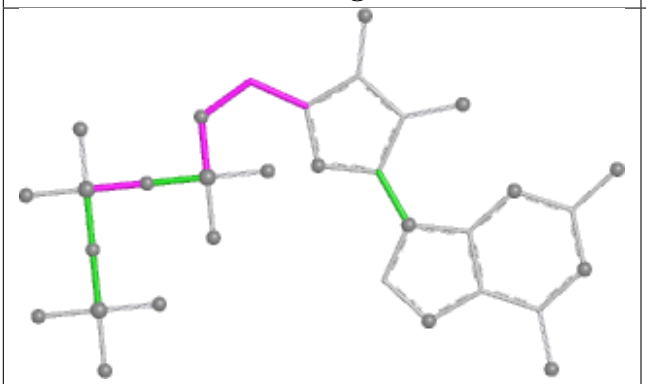

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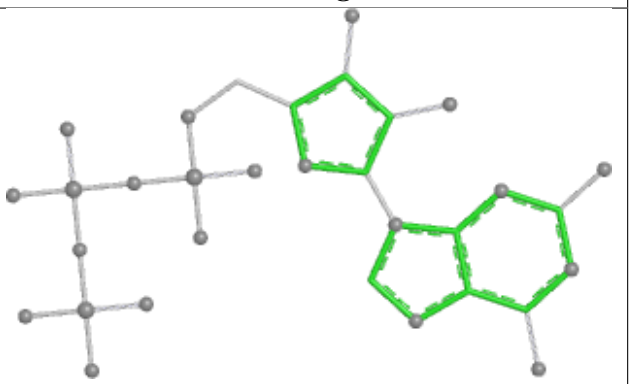

Rings

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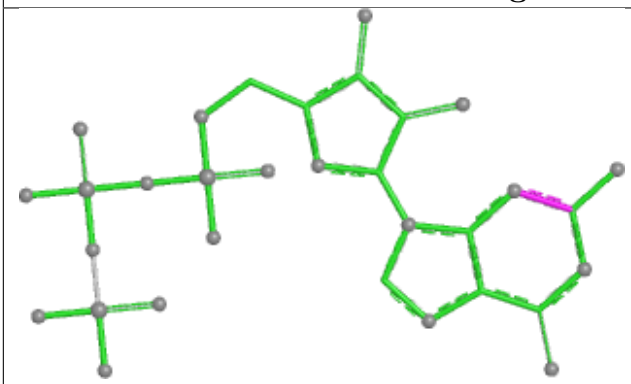

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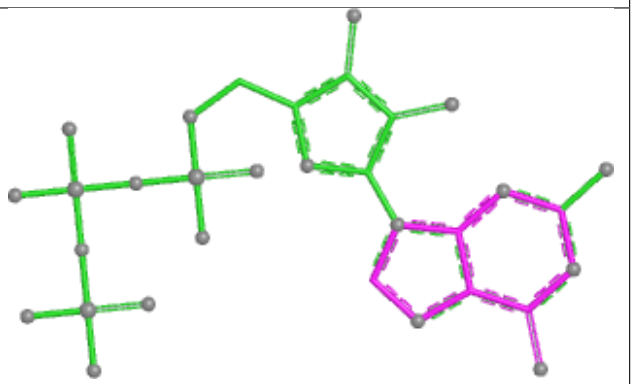

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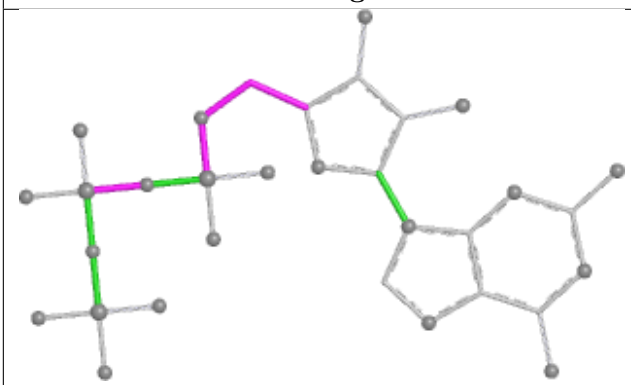

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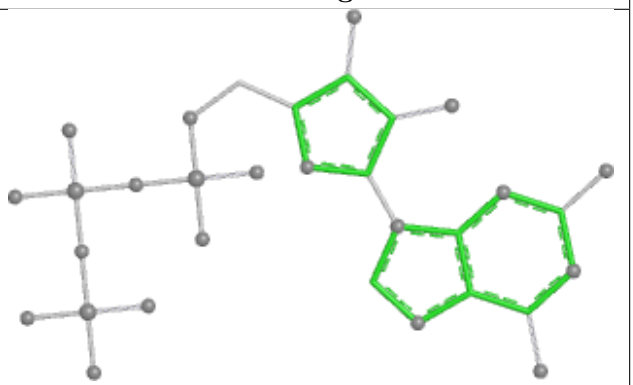

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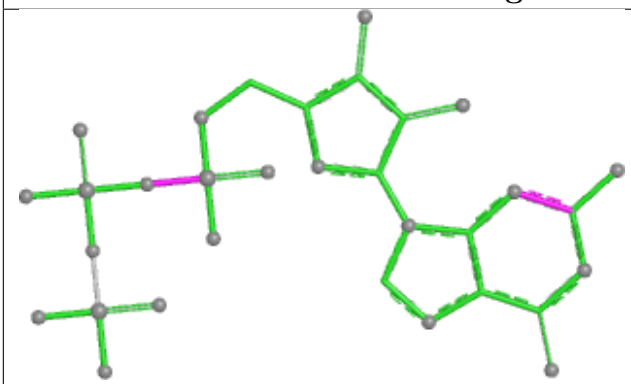

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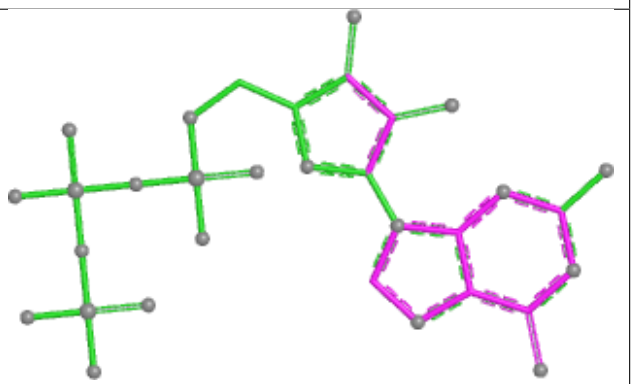

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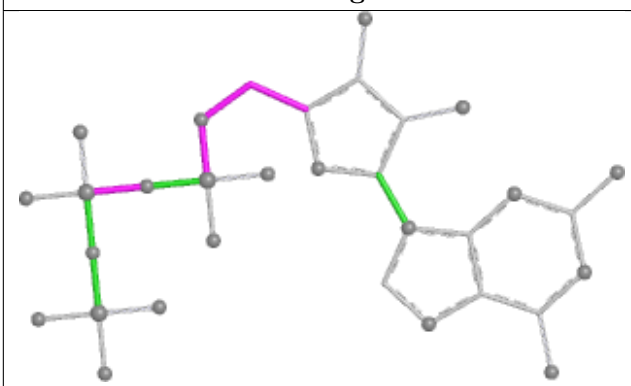

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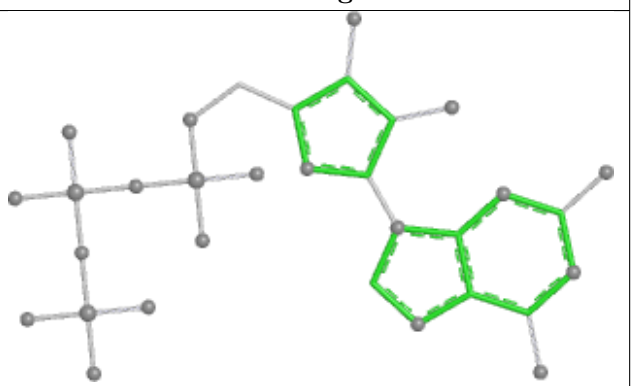

Rings

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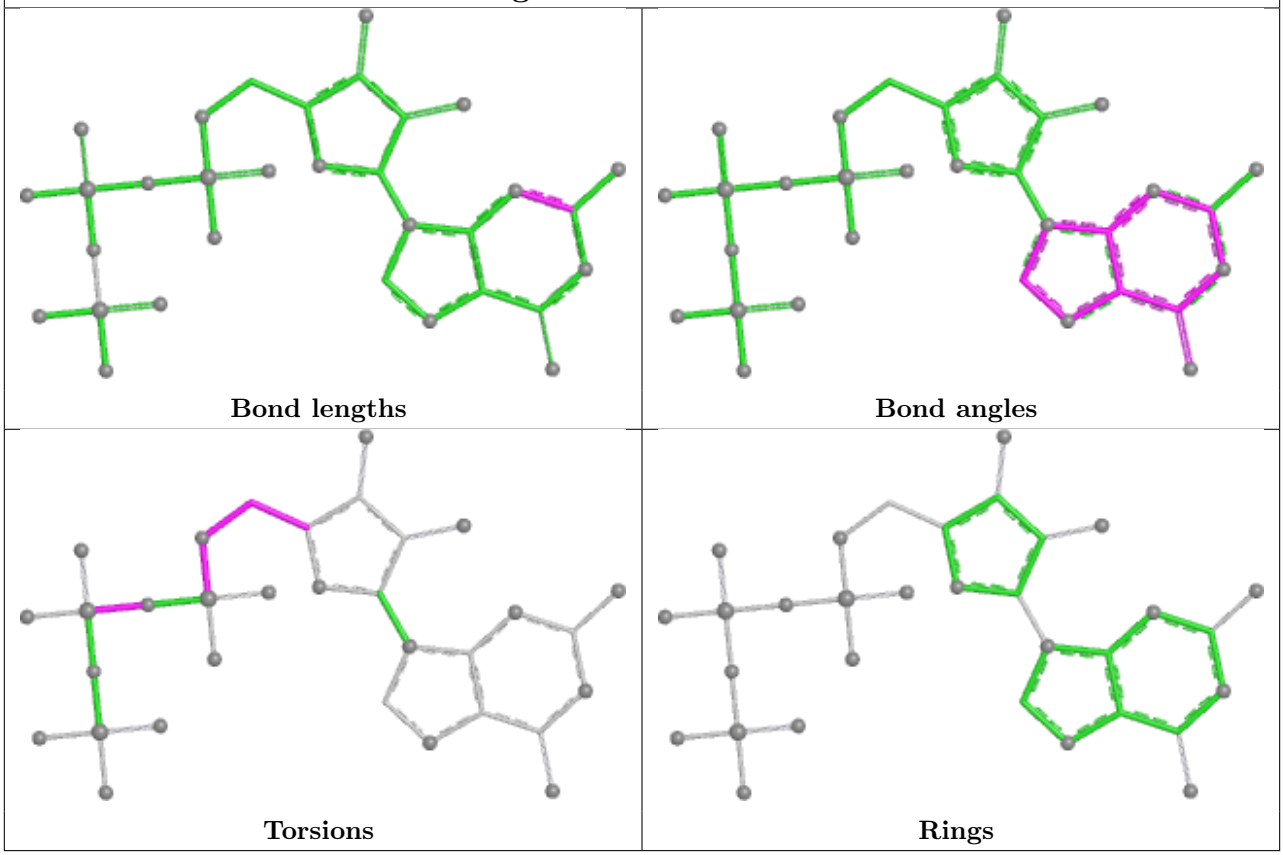

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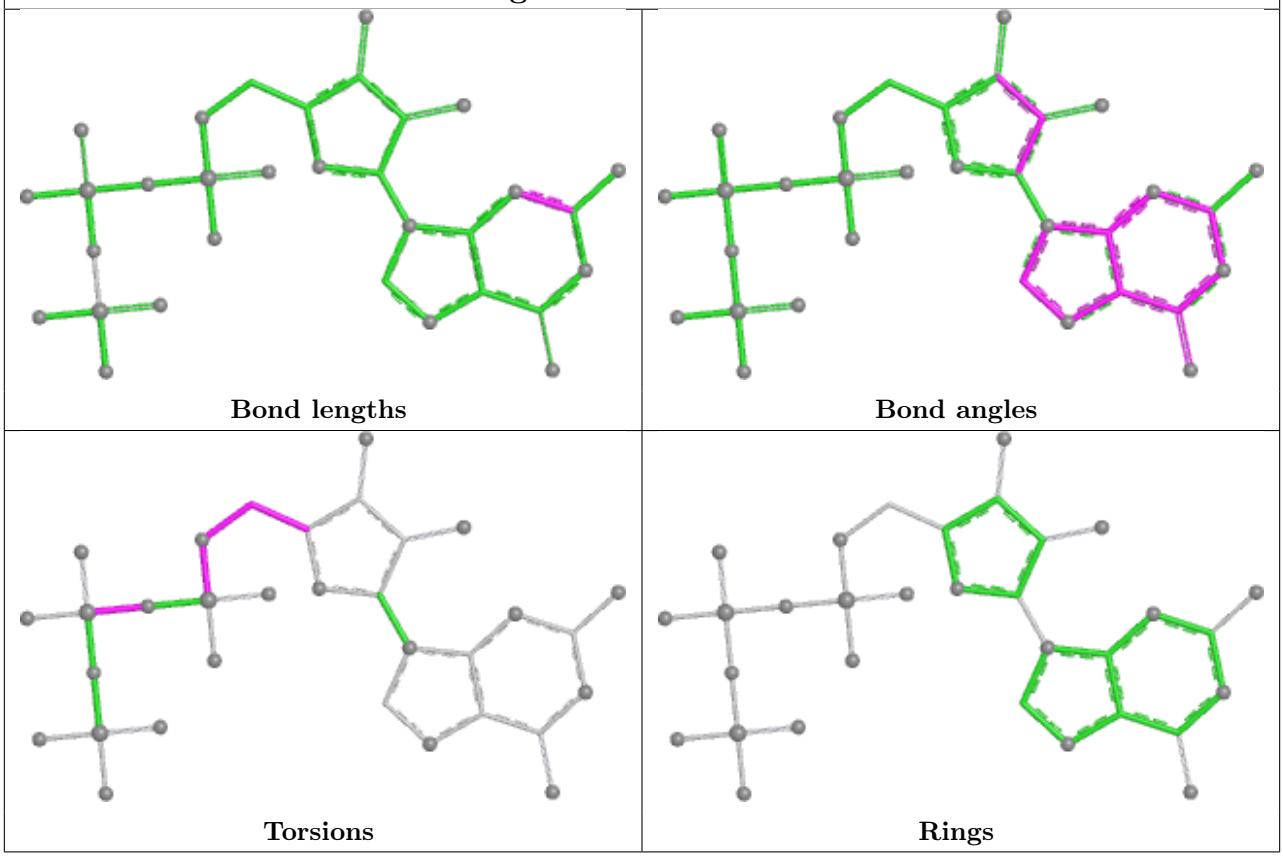

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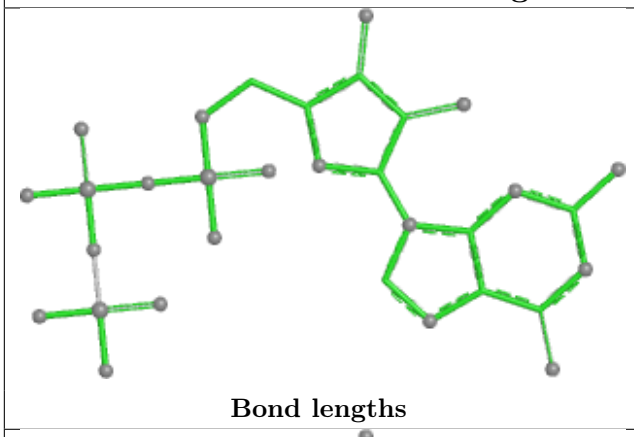

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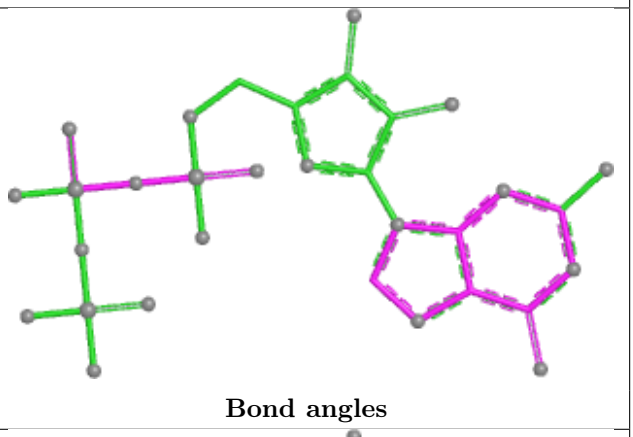

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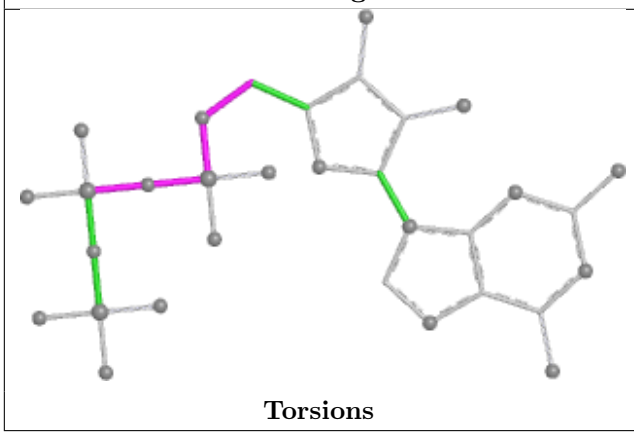

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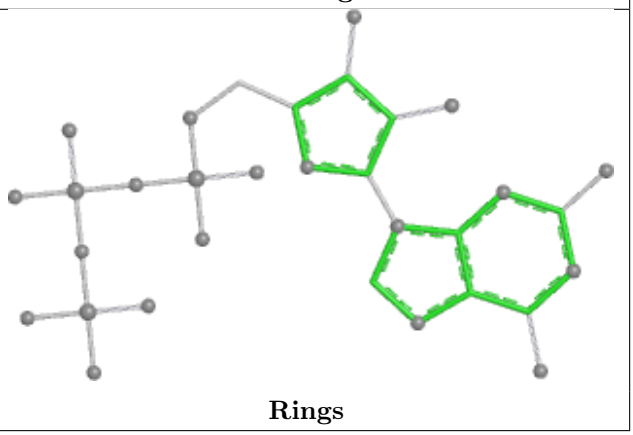

Rings

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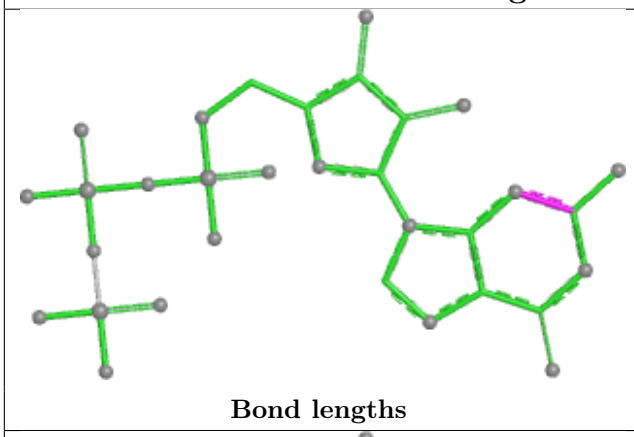

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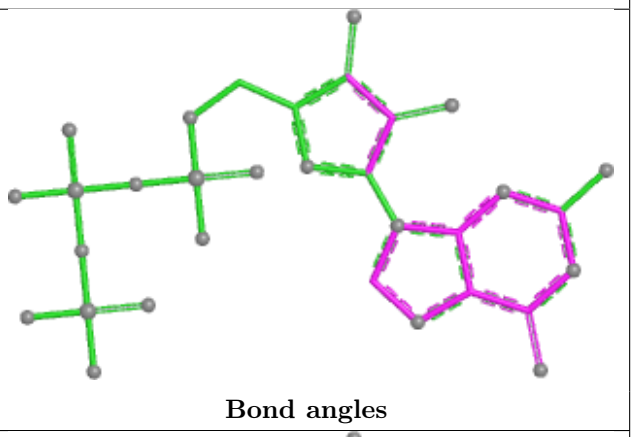

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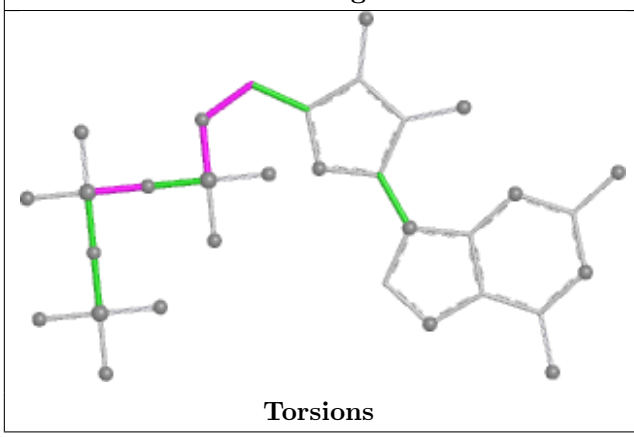

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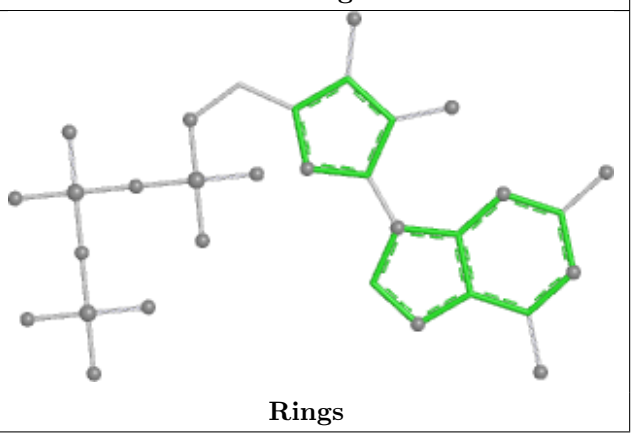

Rings

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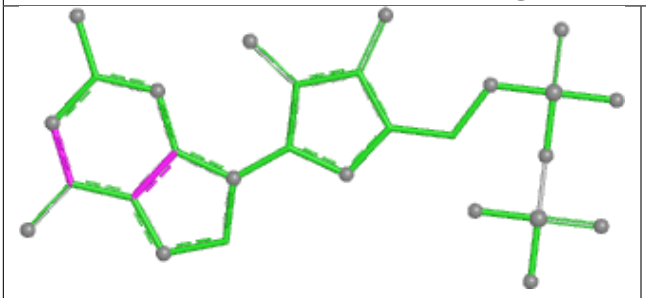

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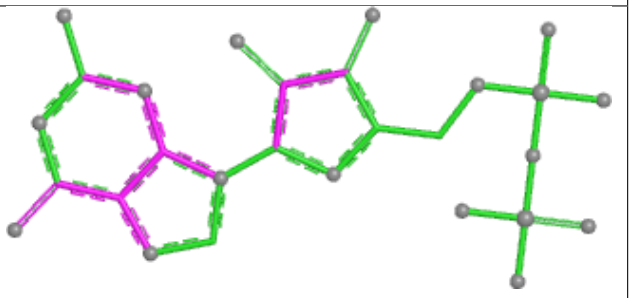

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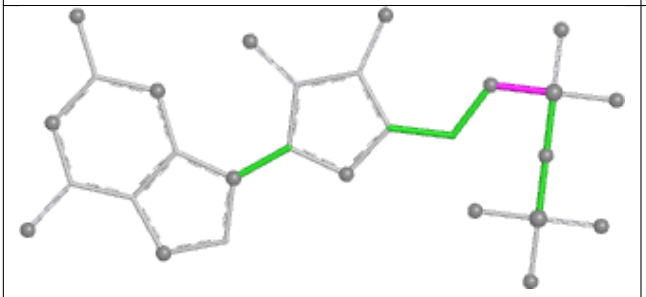

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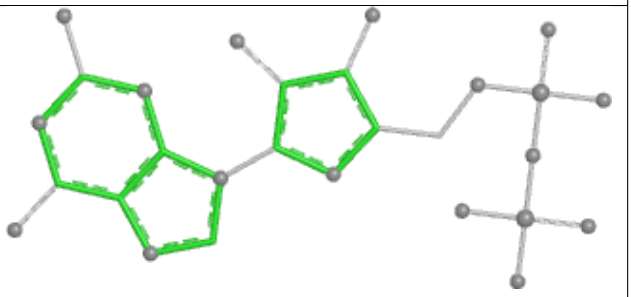

Rings

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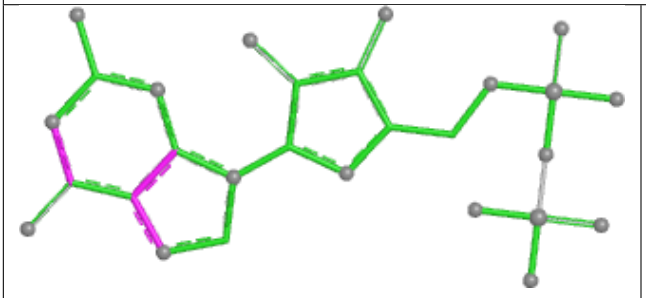

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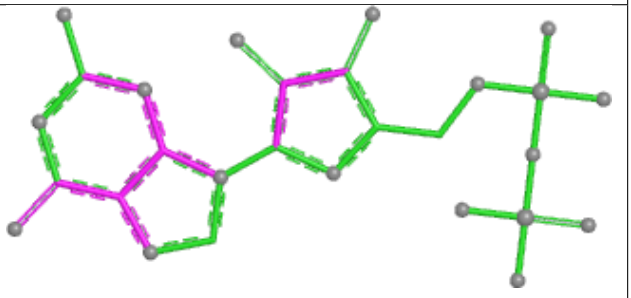

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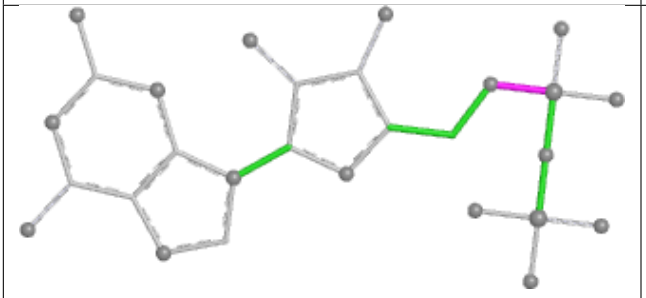

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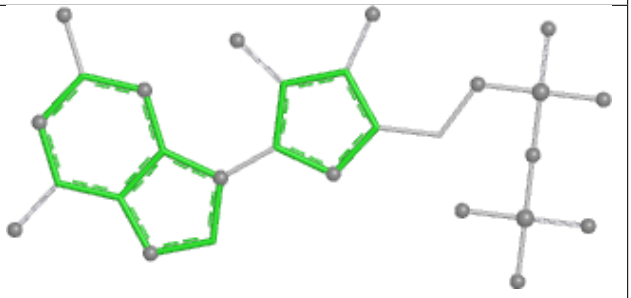

Rings

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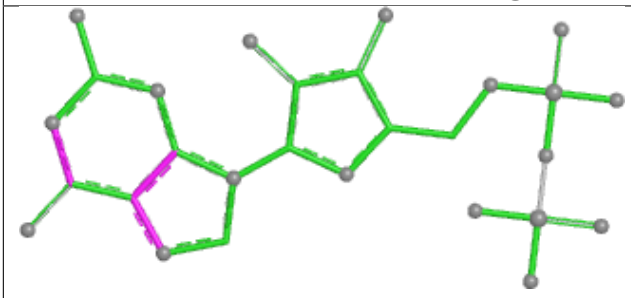
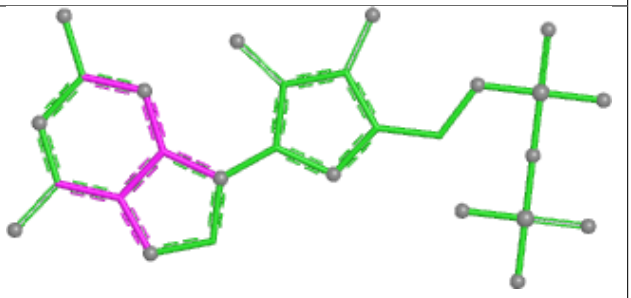
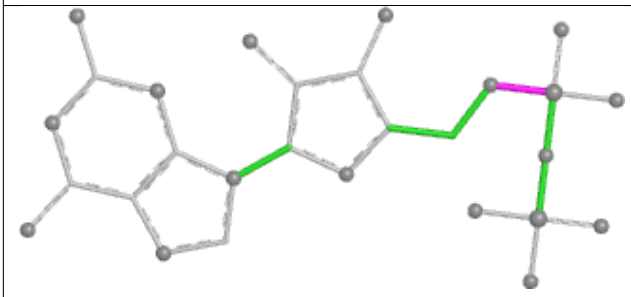
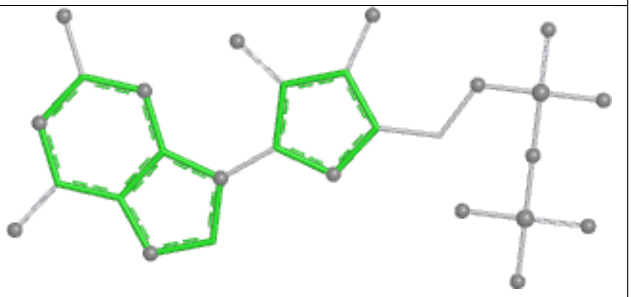
 Bond lengths	 Bond angles
 Torsions	 Rings

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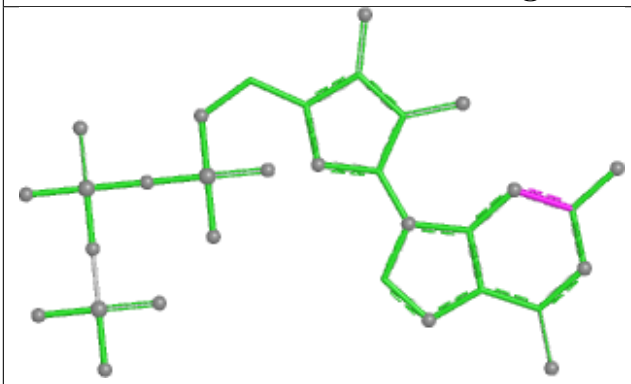
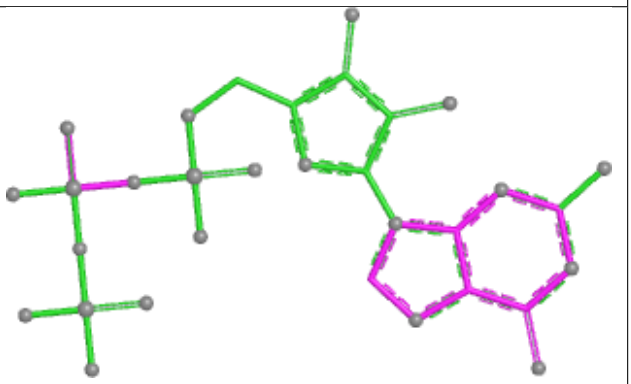
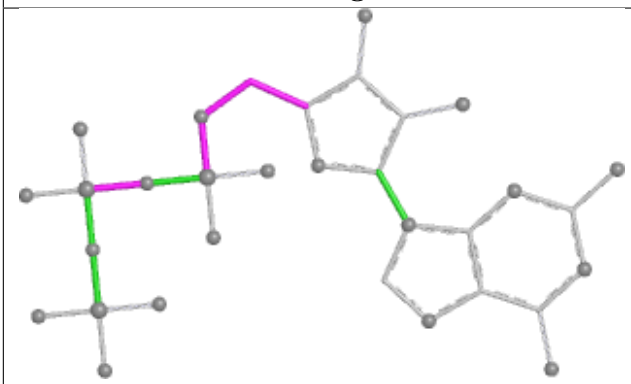
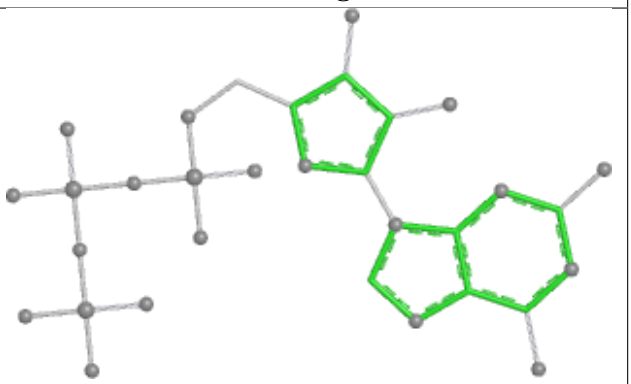
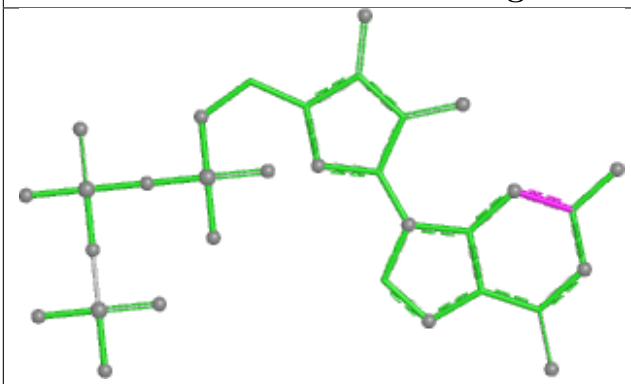
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP EM 501



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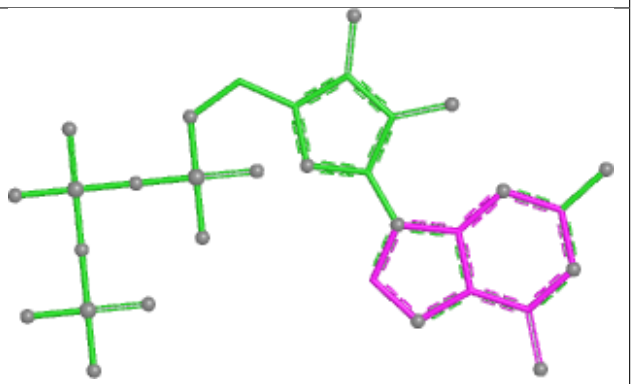

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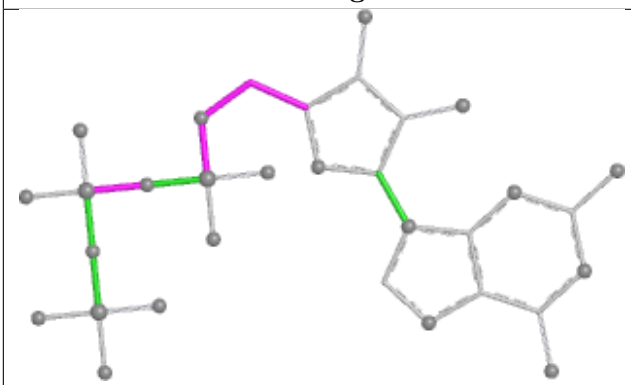

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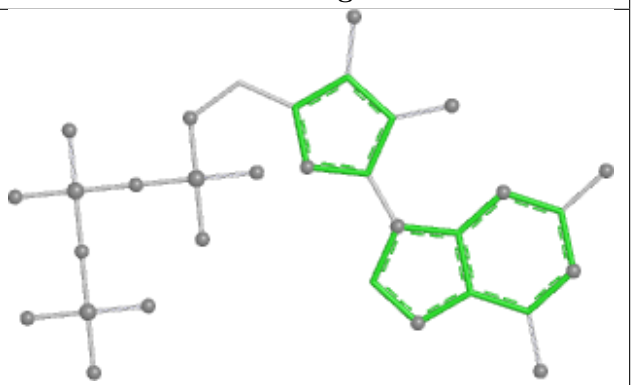
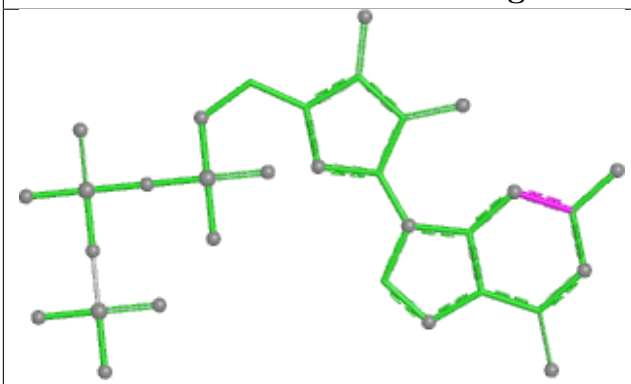


Rings

Ligand GTP HK 501



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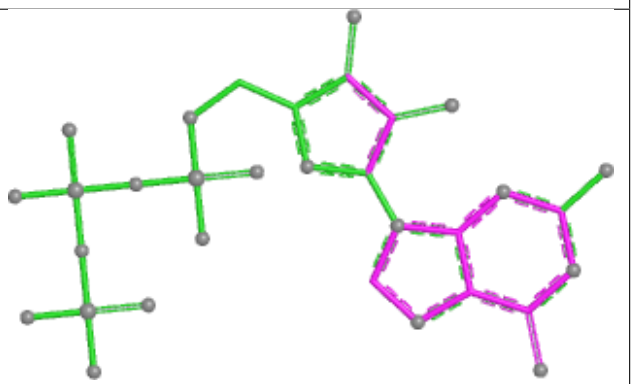

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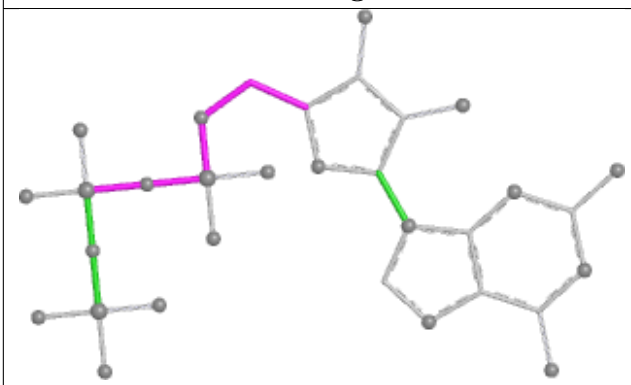

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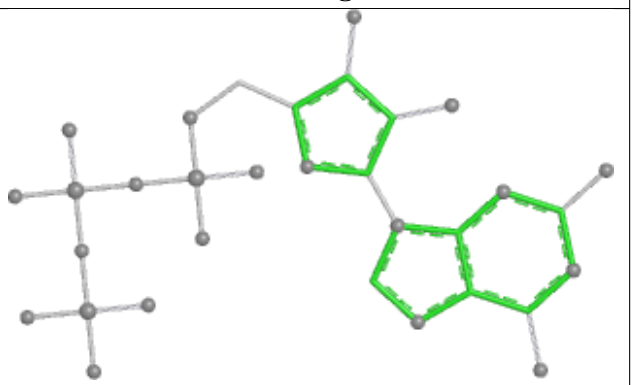

Rings

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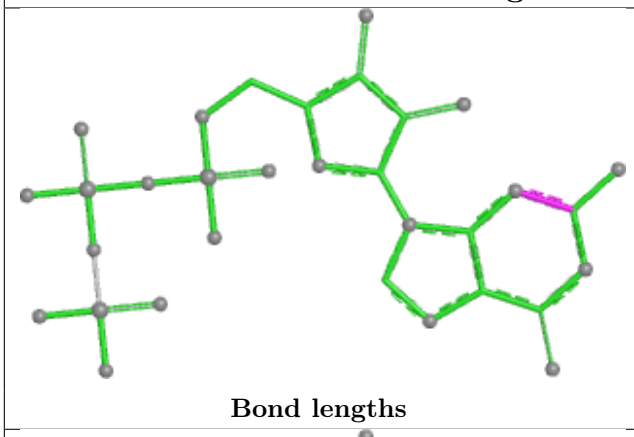

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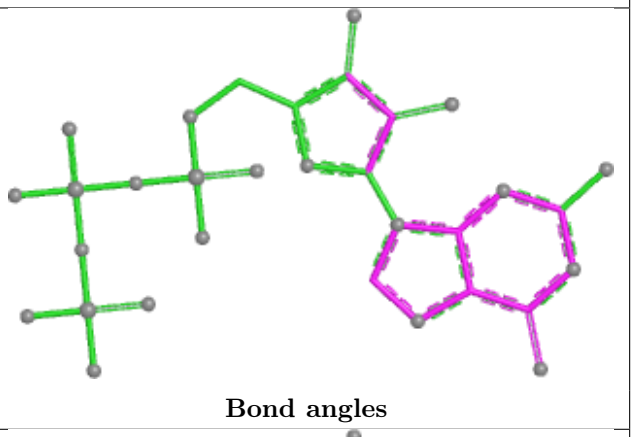

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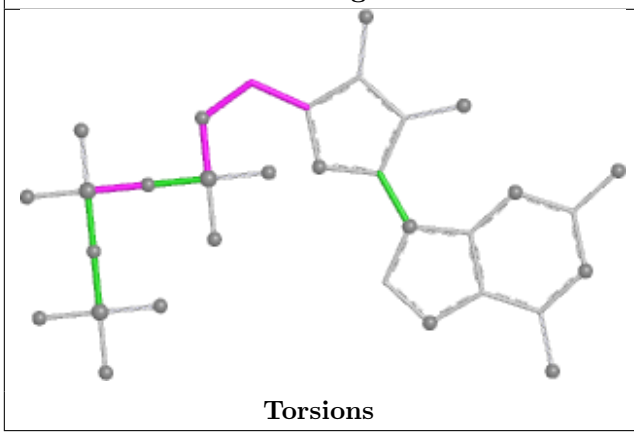

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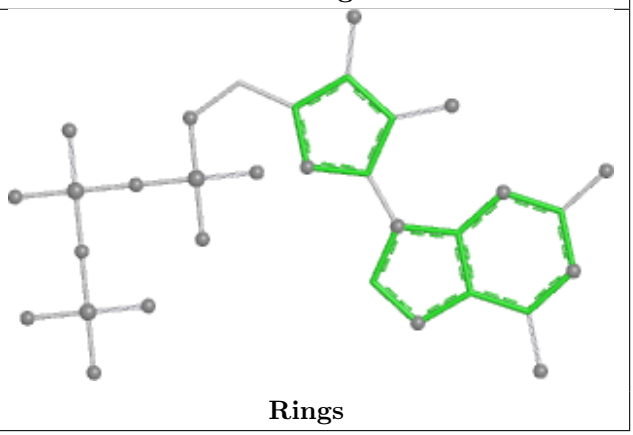
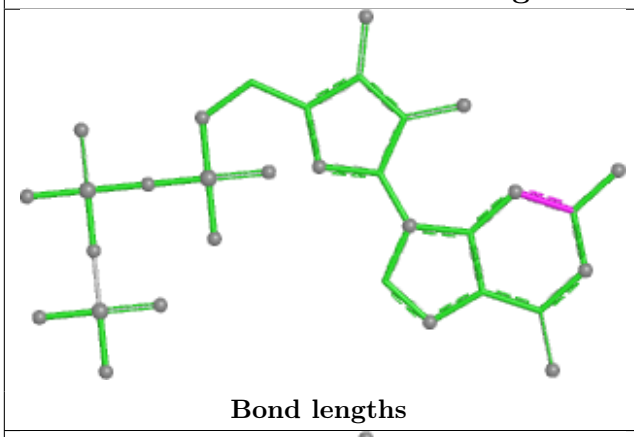


Rings

Ligand GTP LO 501



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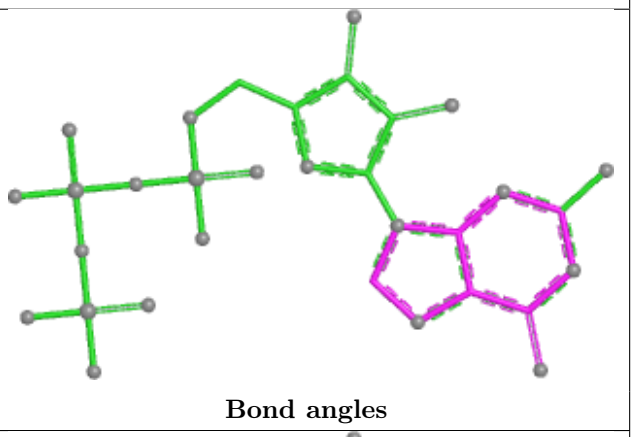

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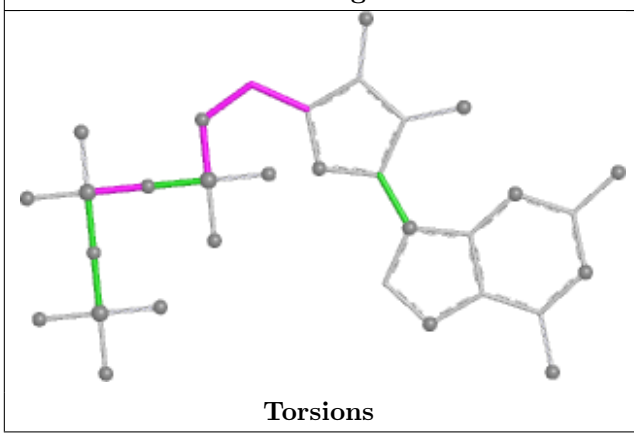
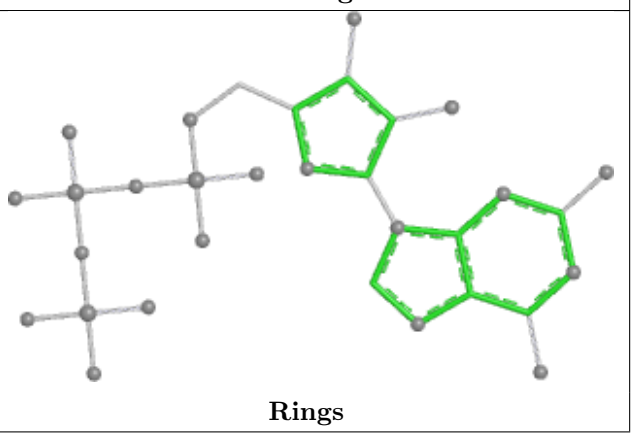
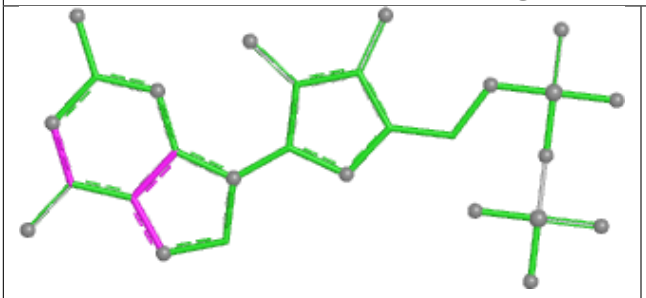


Torsions



Rings

Ligand GDP LJ 502



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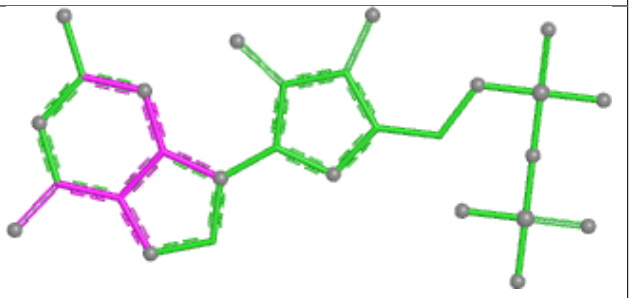

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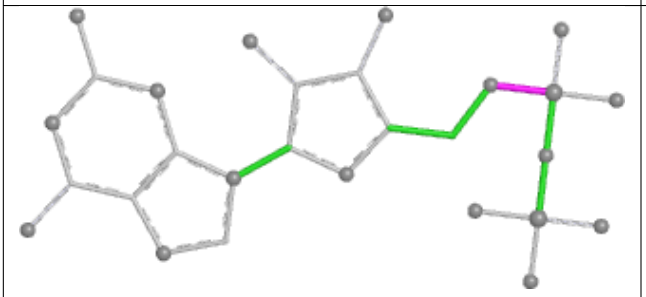

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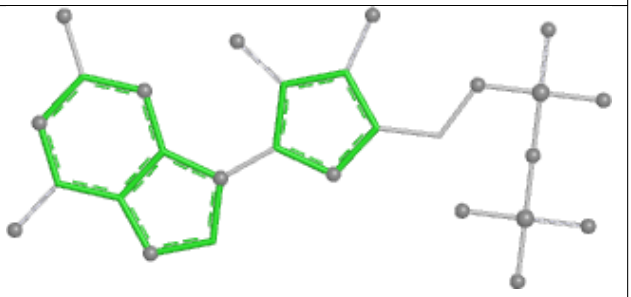
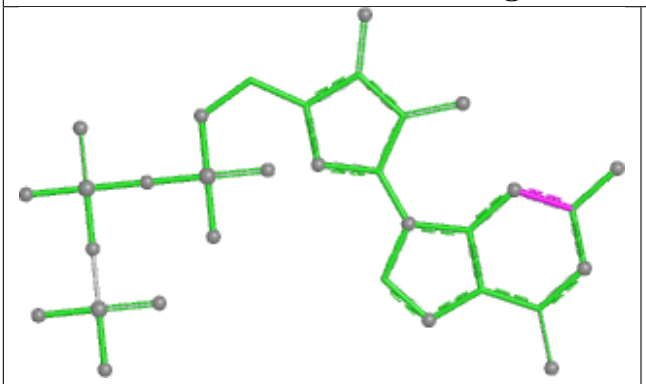


Rings

Ligand GTP WK 501



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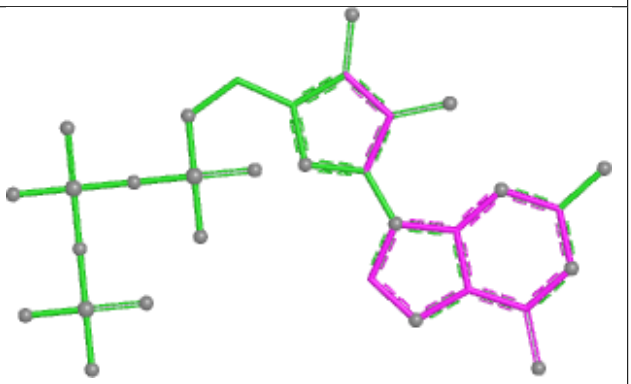

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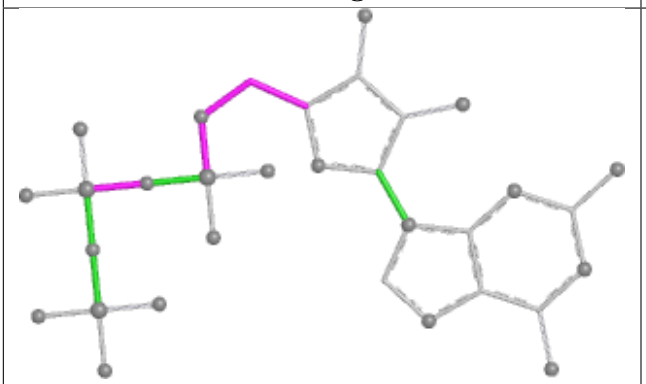

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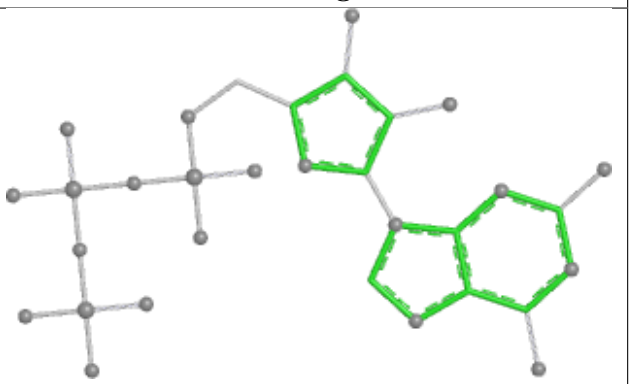

Rings

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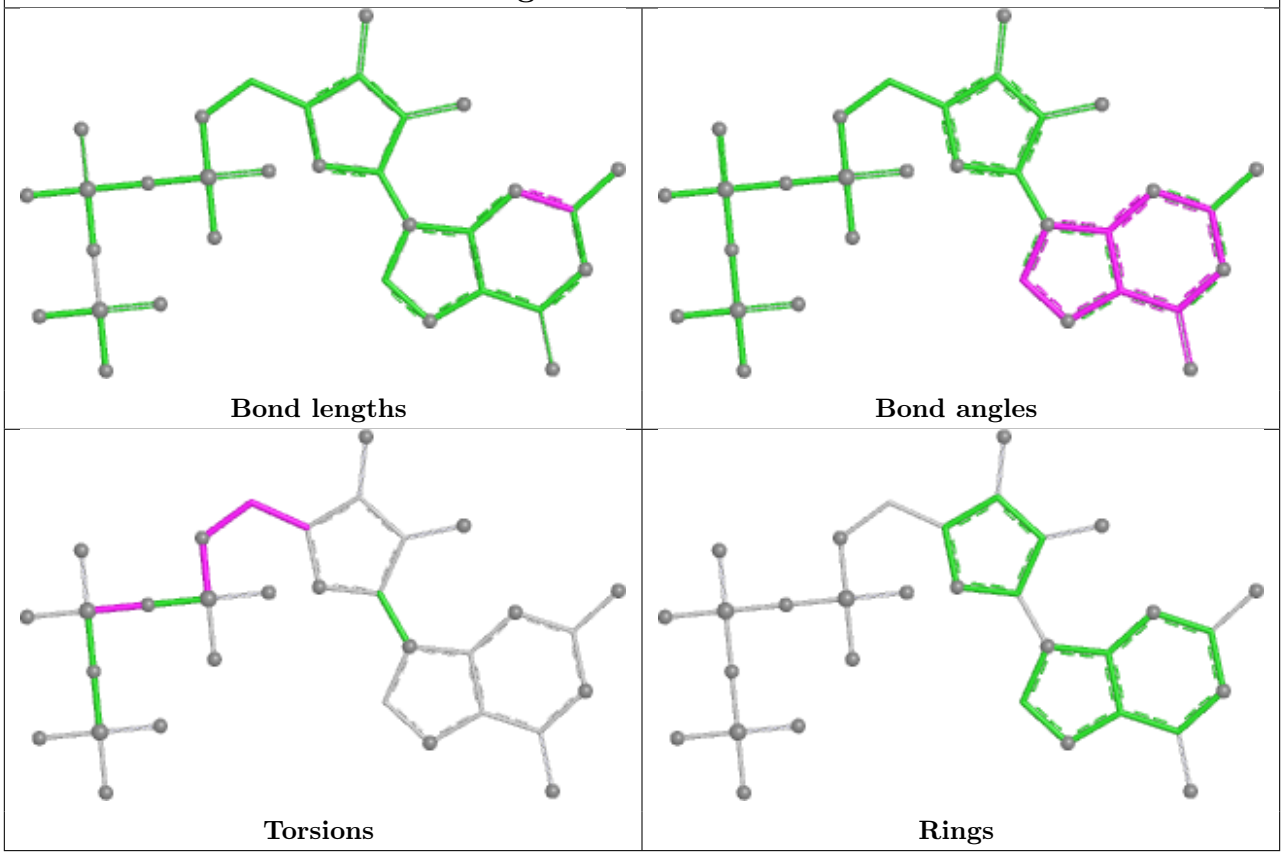

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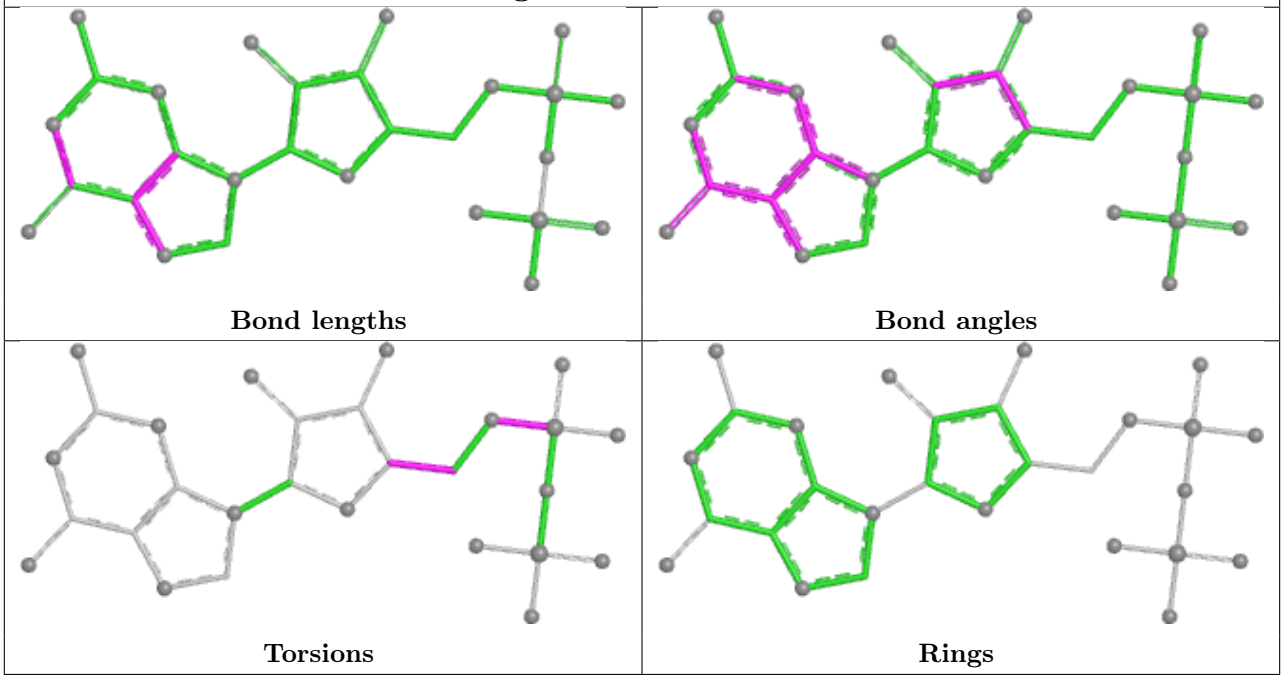

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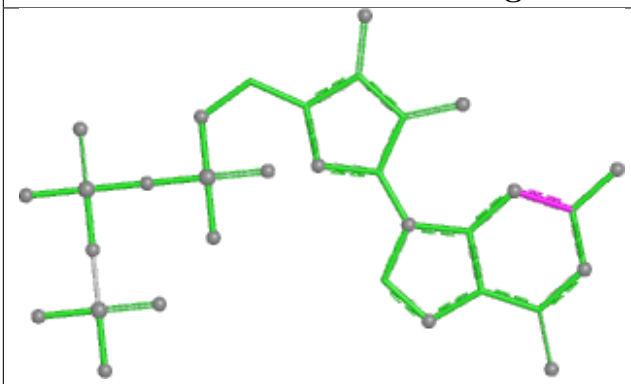

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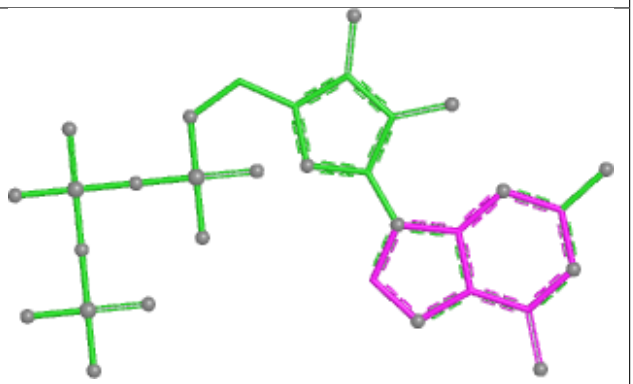

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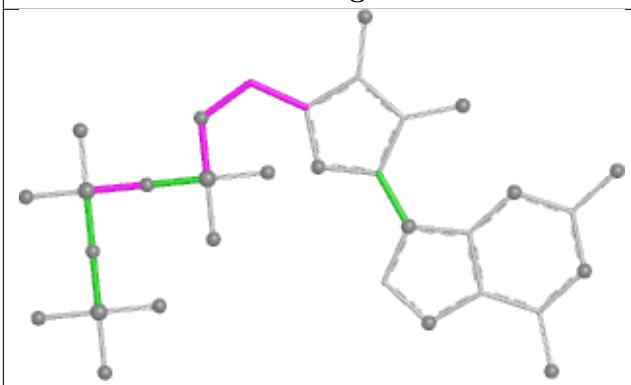

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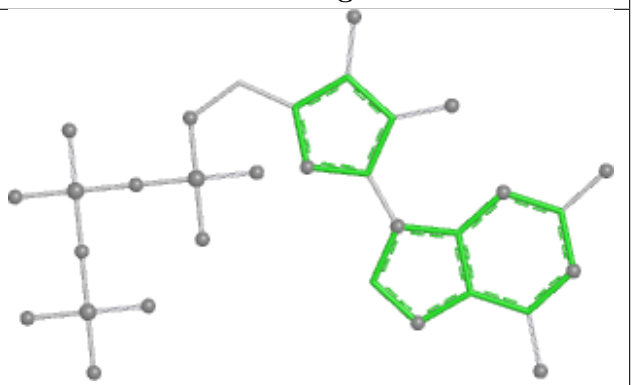

Rings

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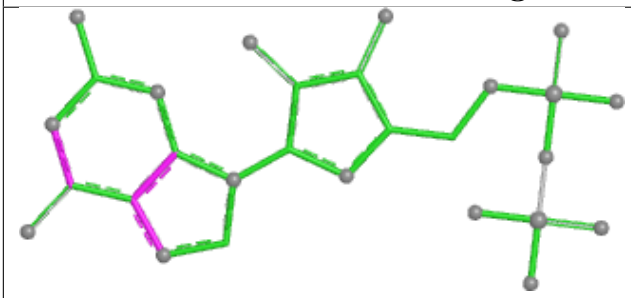

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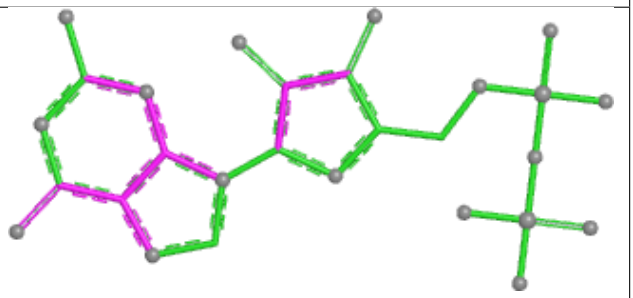

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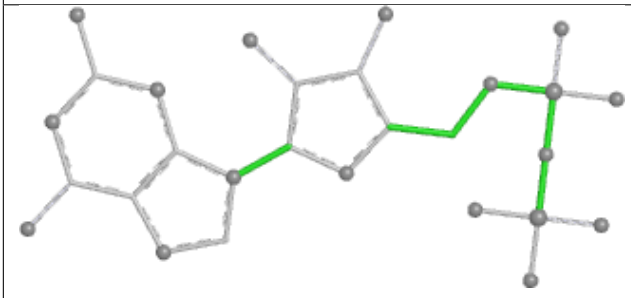

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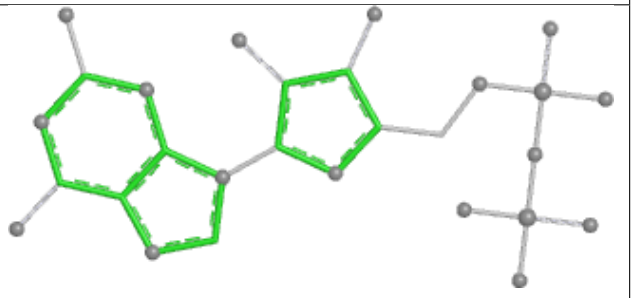

Rings

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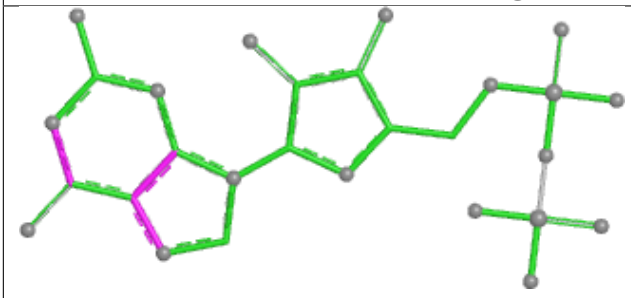

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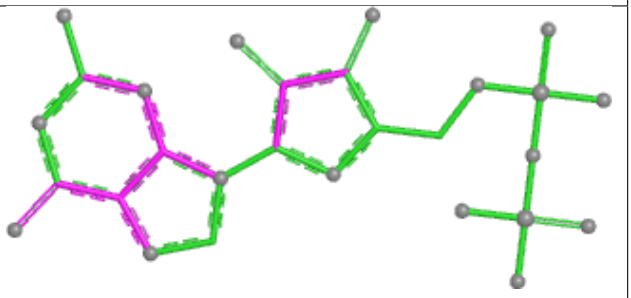

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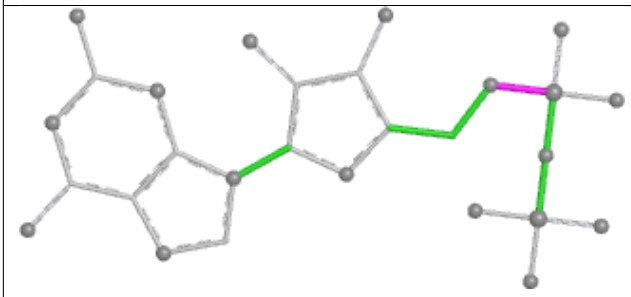

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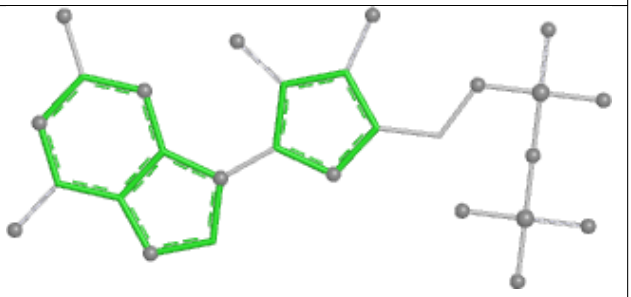

Rings

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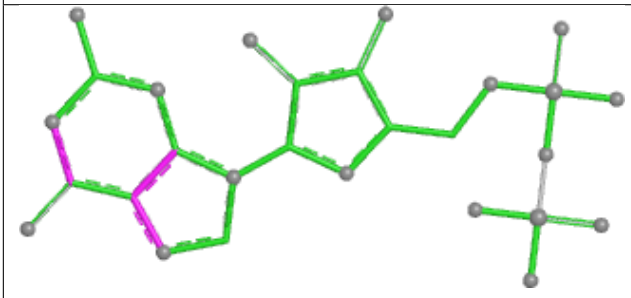

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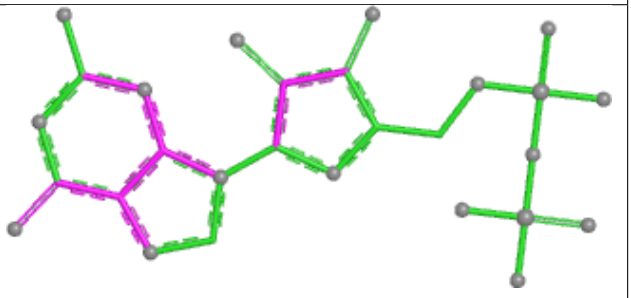

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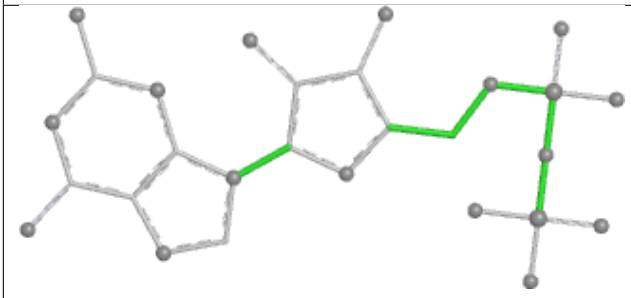

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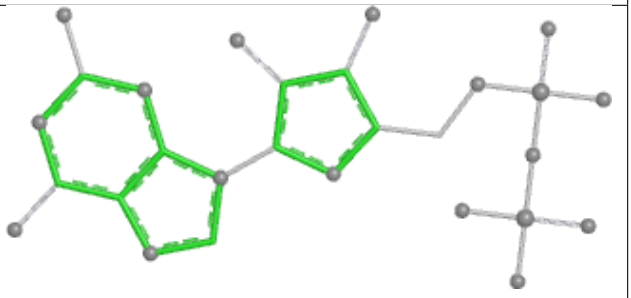

Rings

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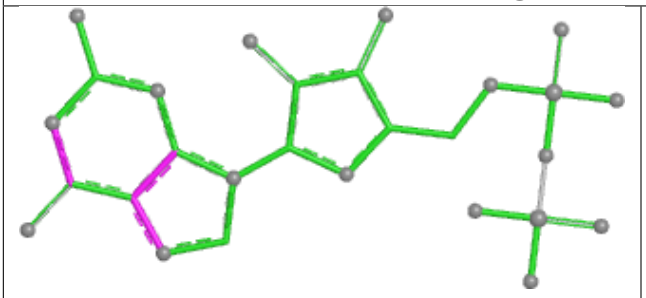

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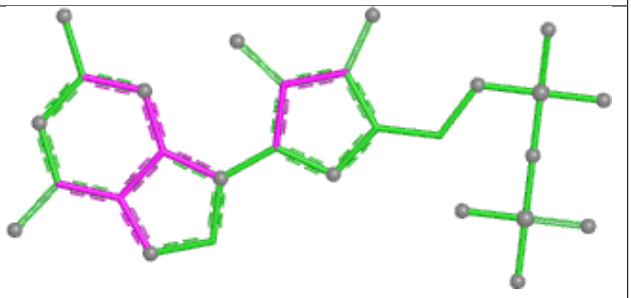

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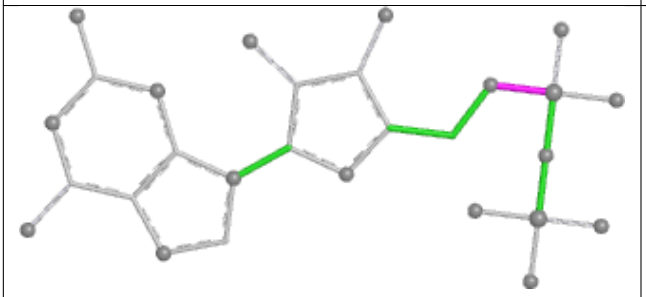

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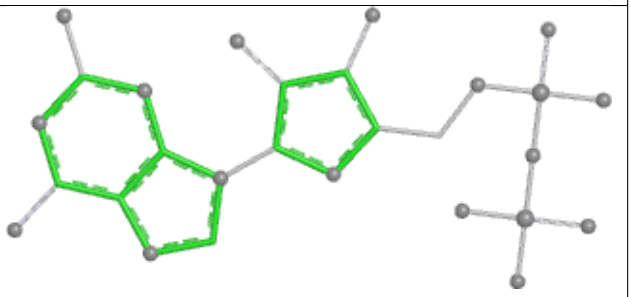
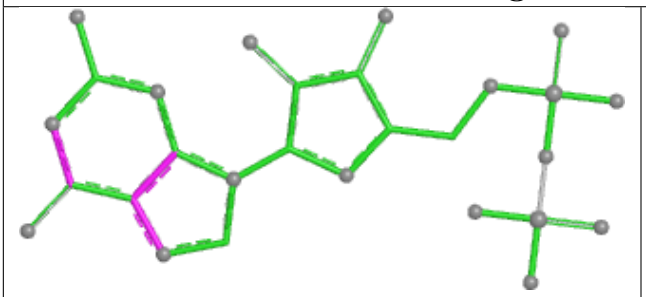


Rings

Ligand GDP MJ 502



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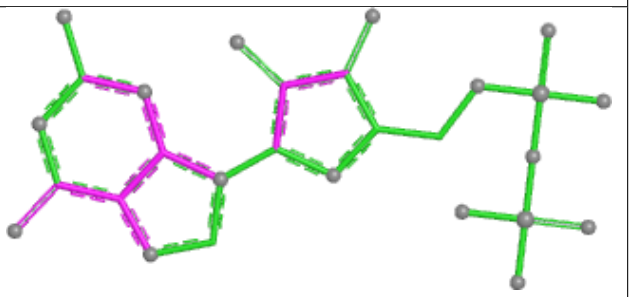

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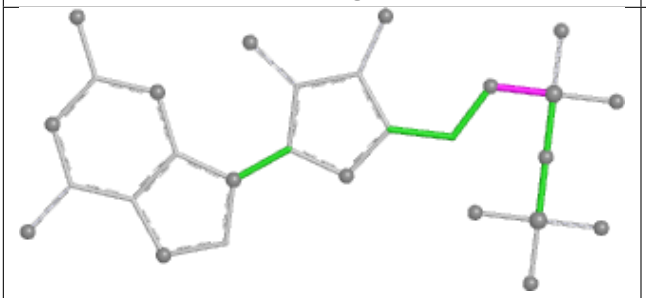

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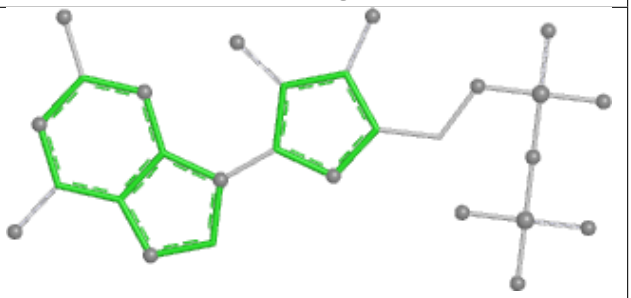

Rings

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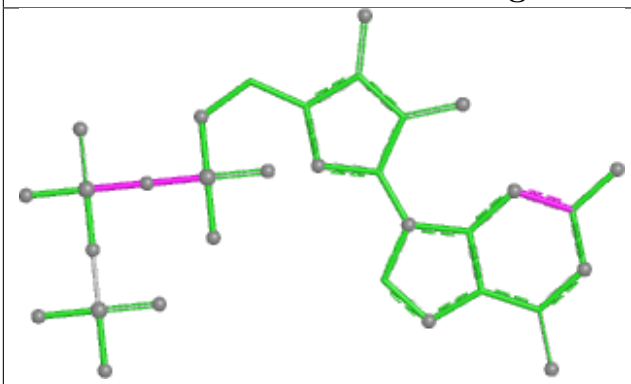

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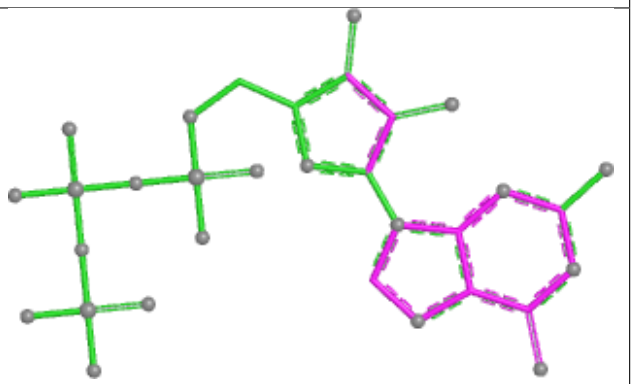

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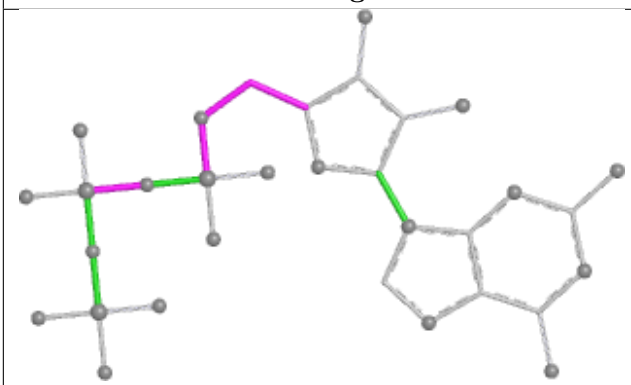

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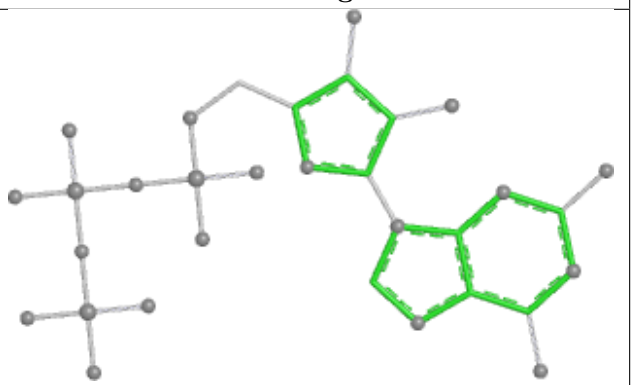

Rings

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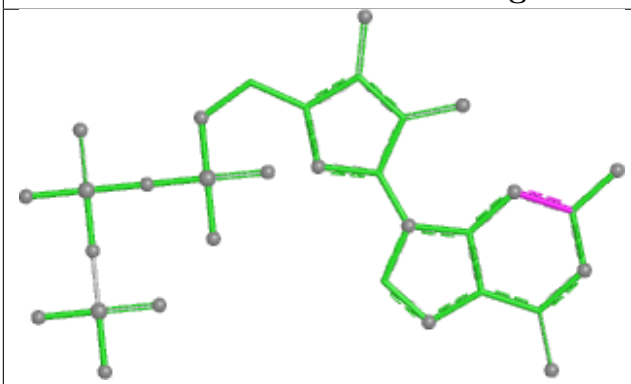

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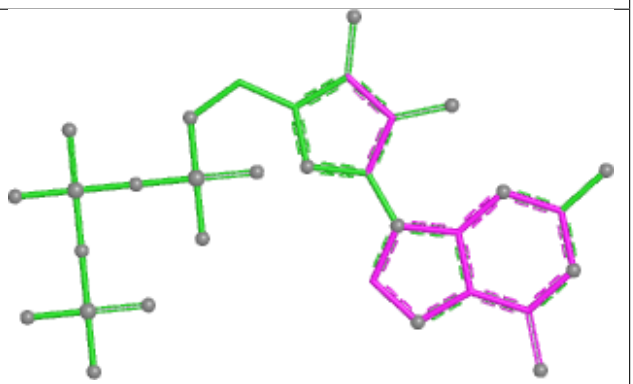

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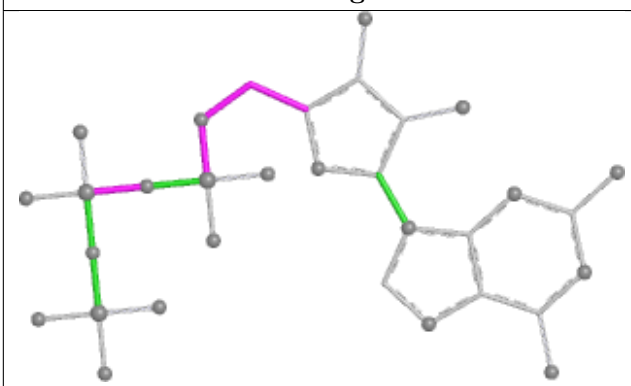

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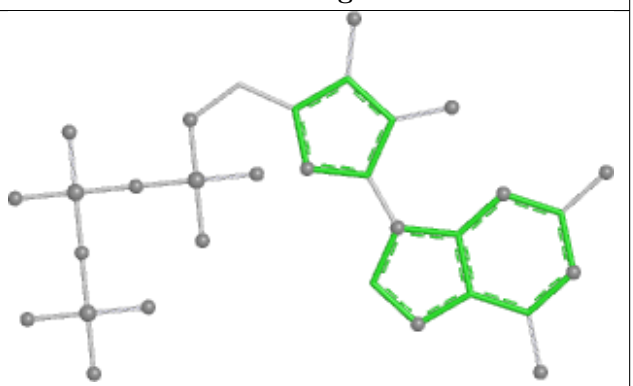

Rings

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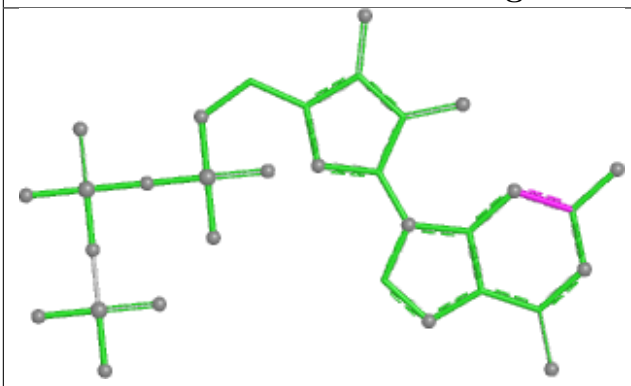

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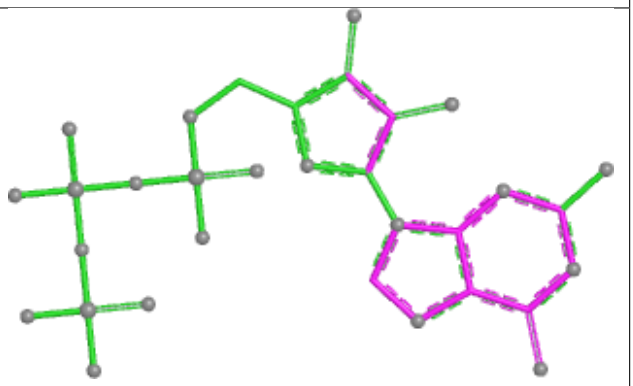

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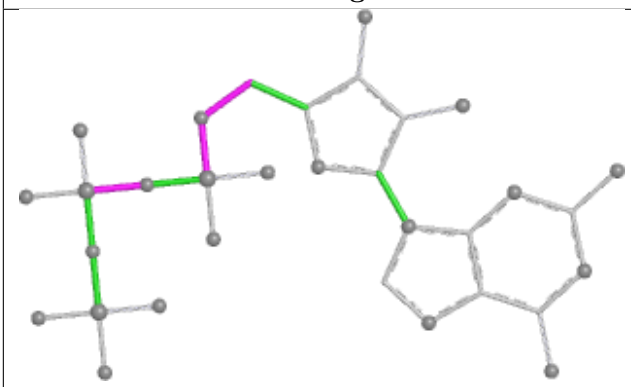

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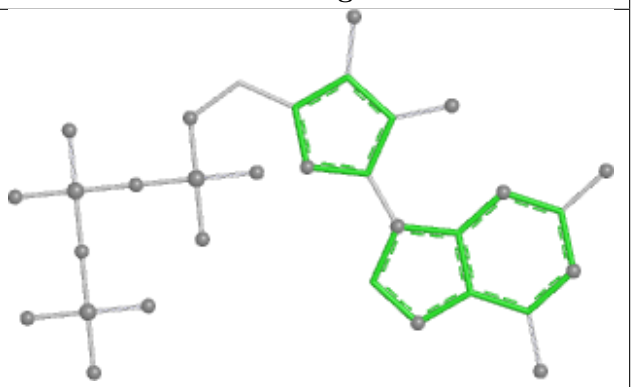
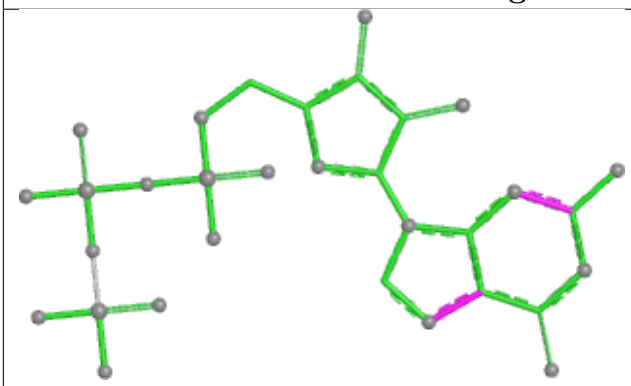


Rings

Ligand GTP CK 501



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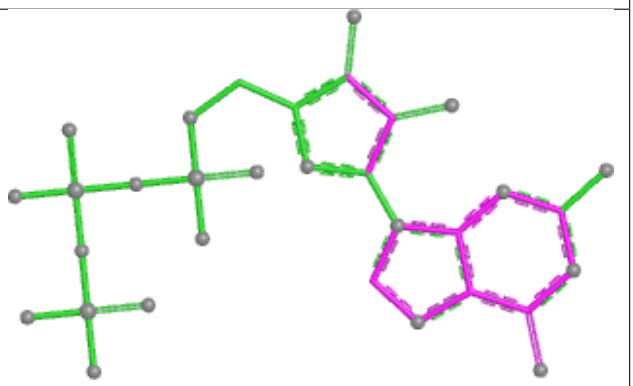

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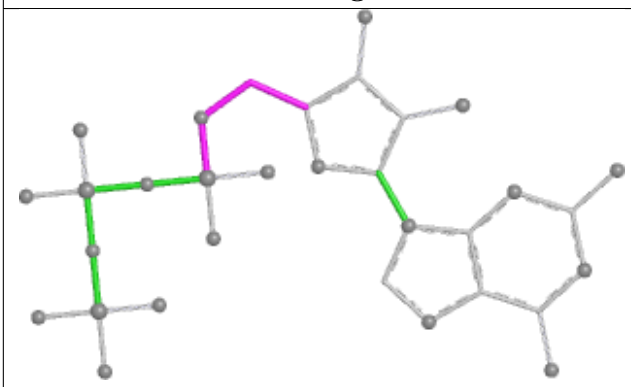

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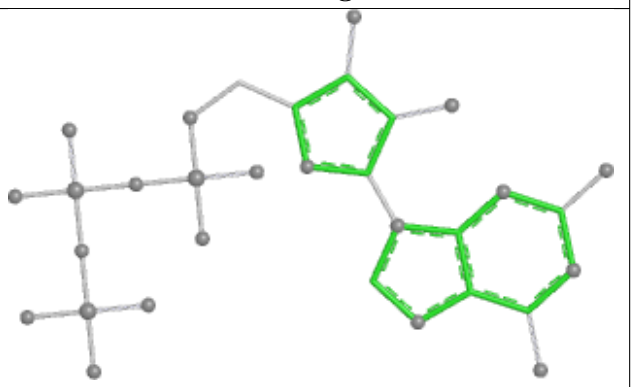
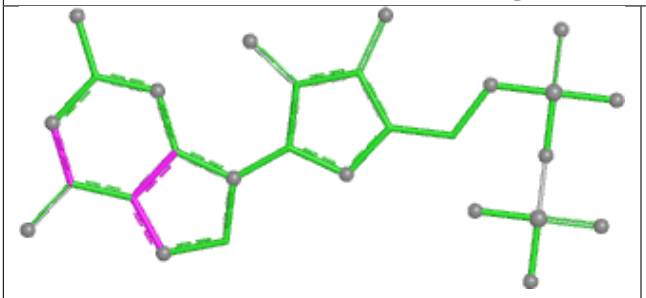


Rings

Ligand GDP EH 502



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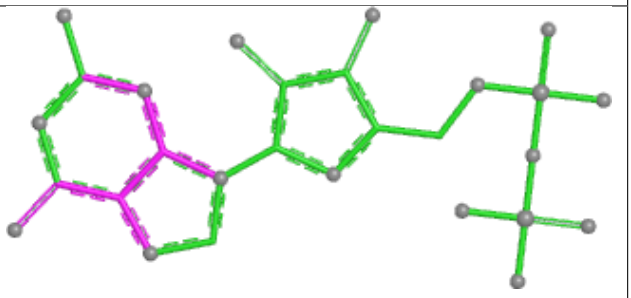
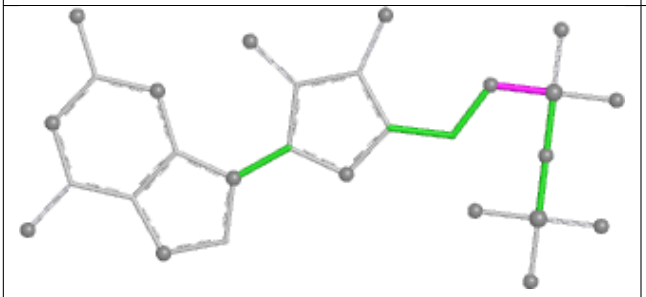
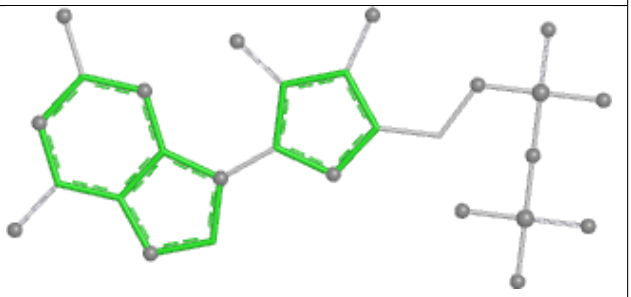


Bond angles

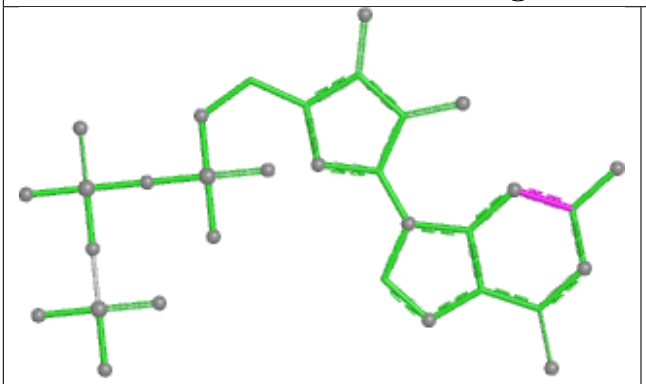


Torsions



Rings

Ligand GTP QC 501



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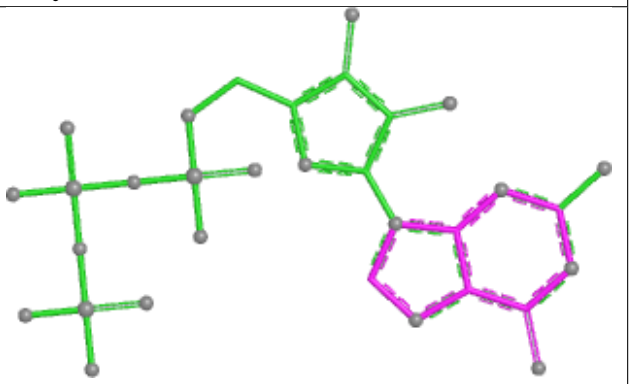

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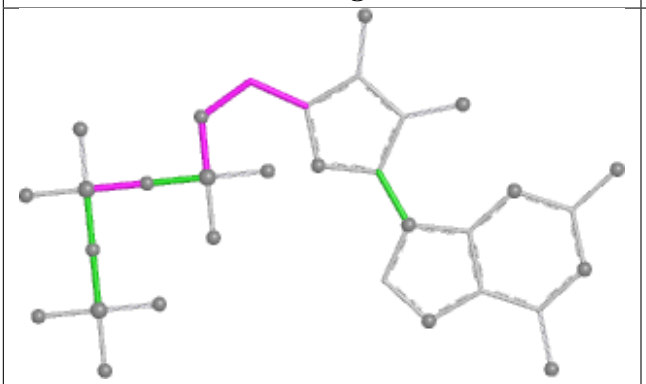

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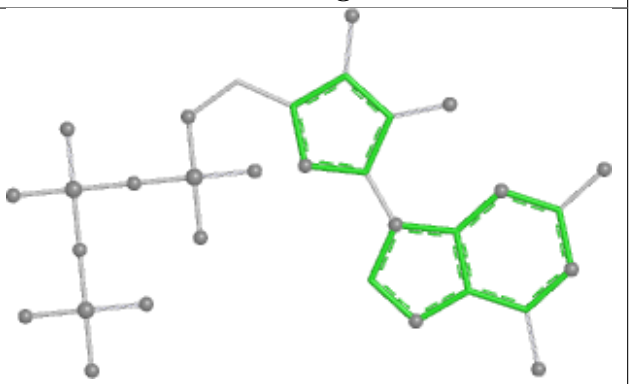
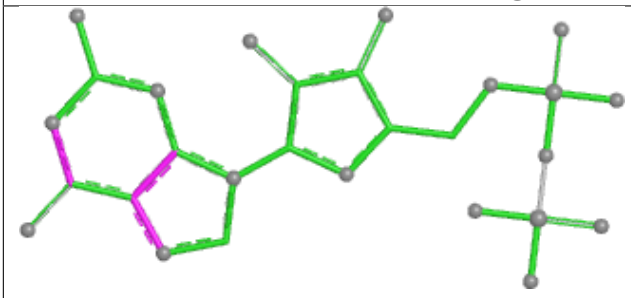


Rings

Ligand GDP EN 502



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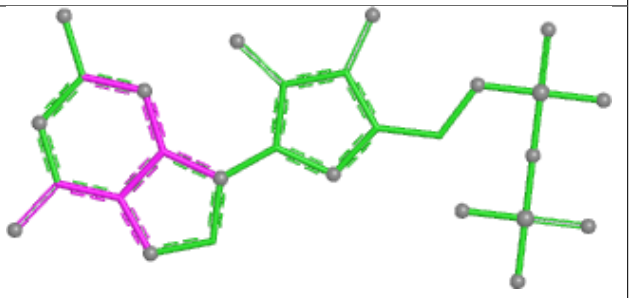

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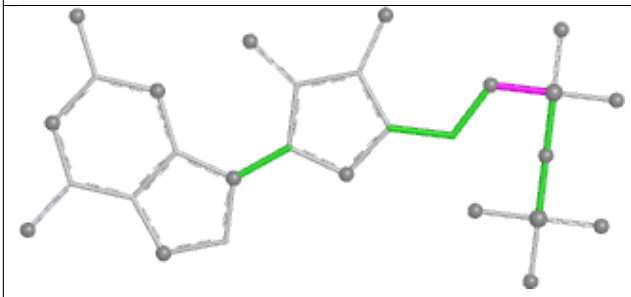

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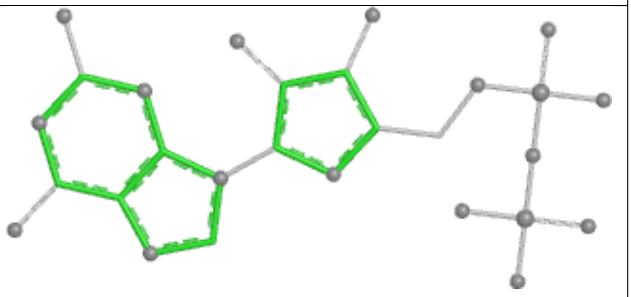
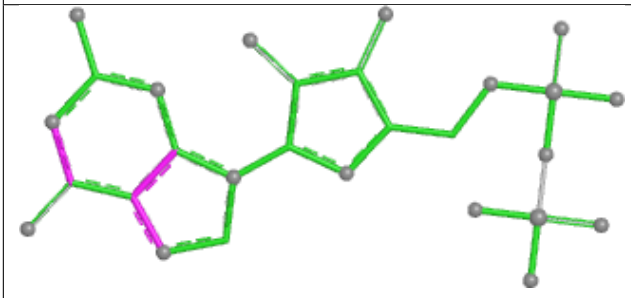


Rings

Ligand GDP DL 502



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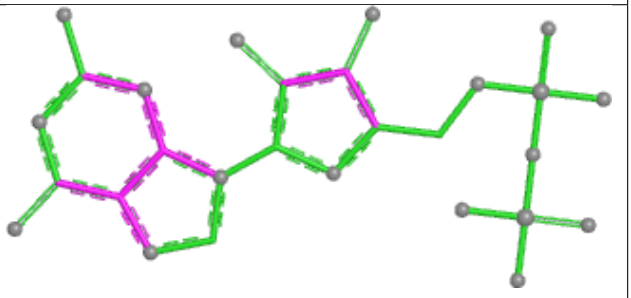

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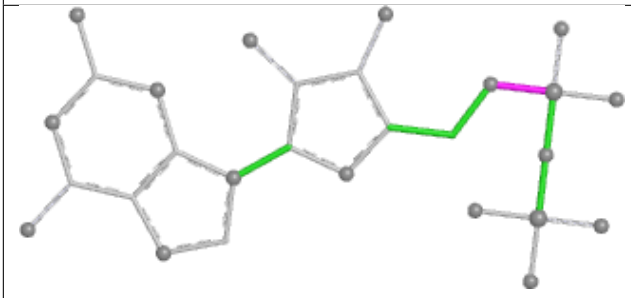

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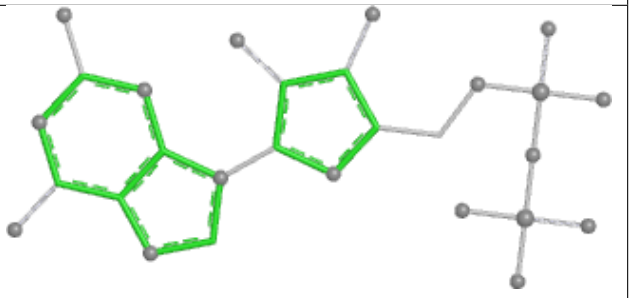
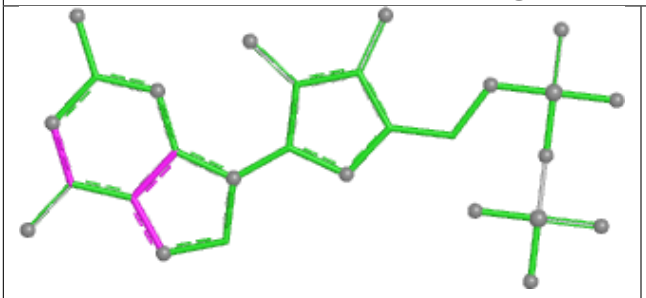


Rings

Ligand GDP SH 502



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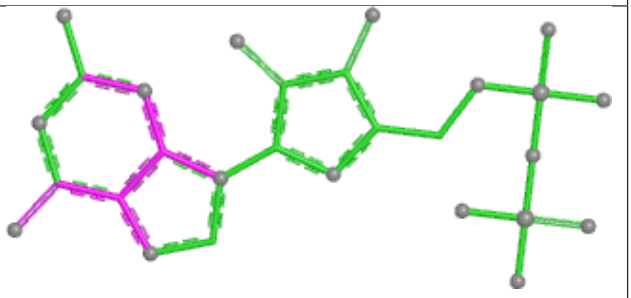

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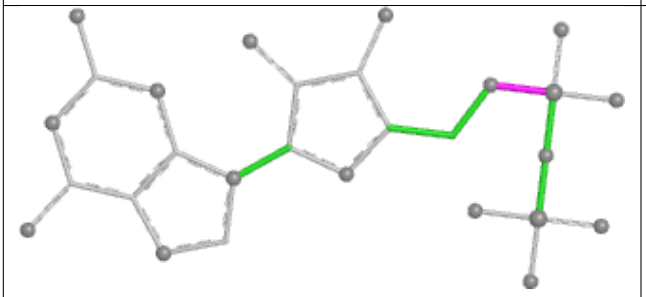

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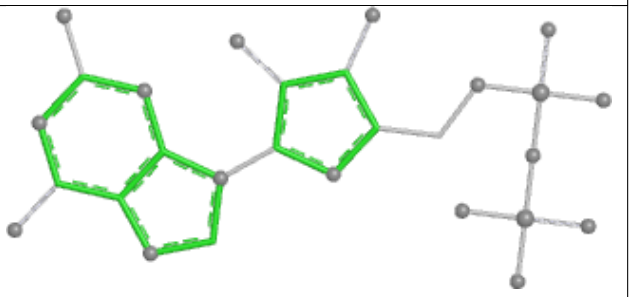
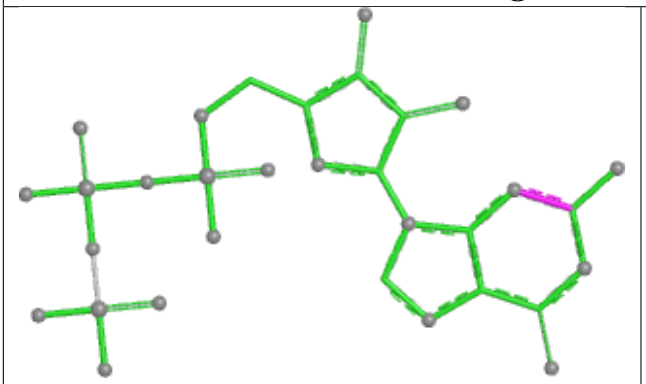


Rings

Ligand GTP OA 501



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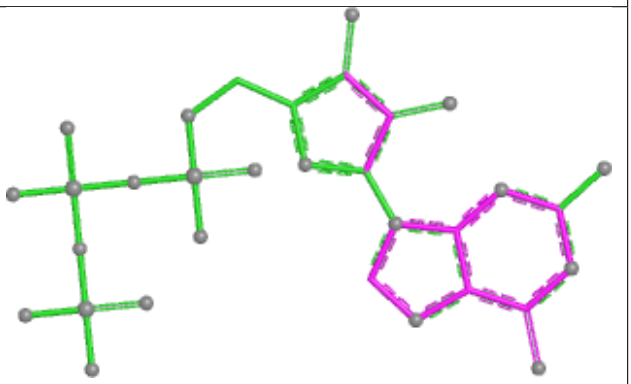

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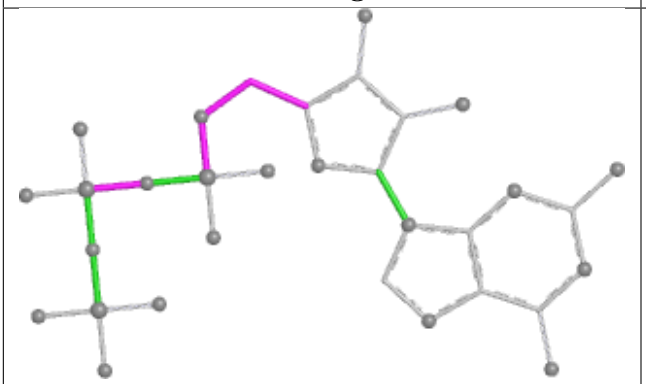

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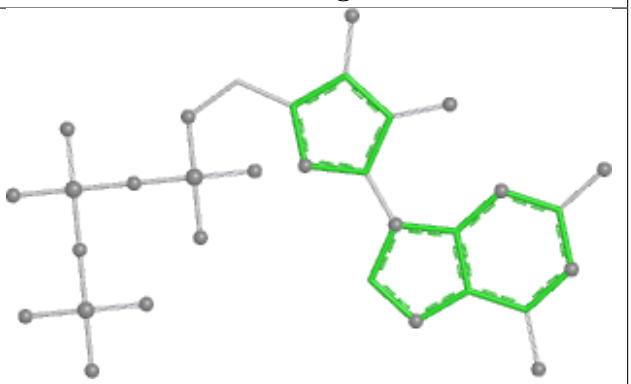

Rings

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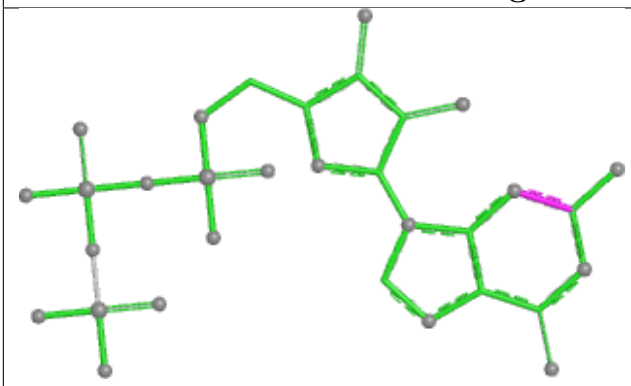

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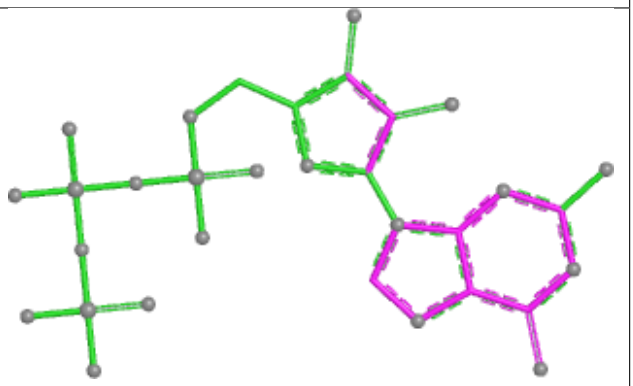

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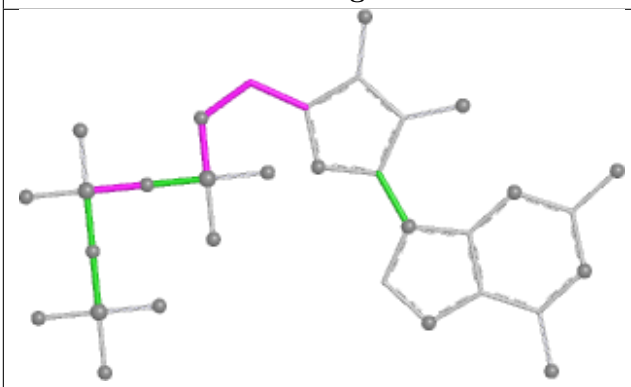

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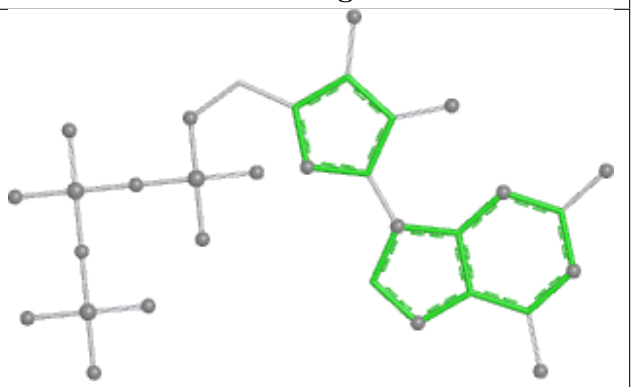
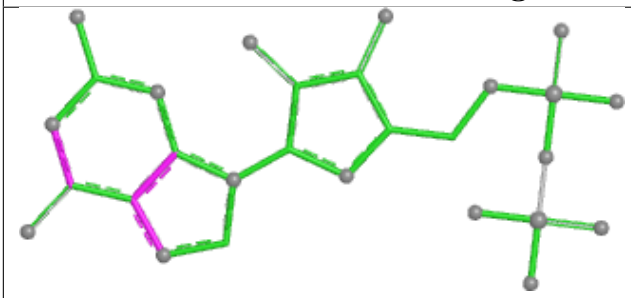


Rings

Ligand GDP UL 502



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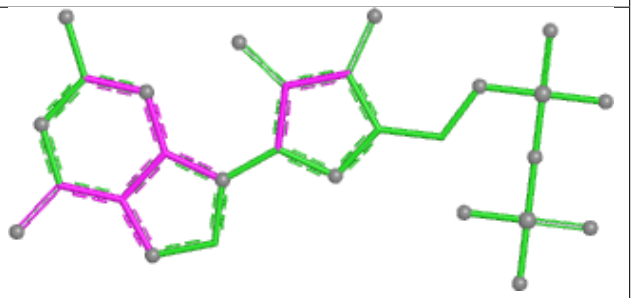

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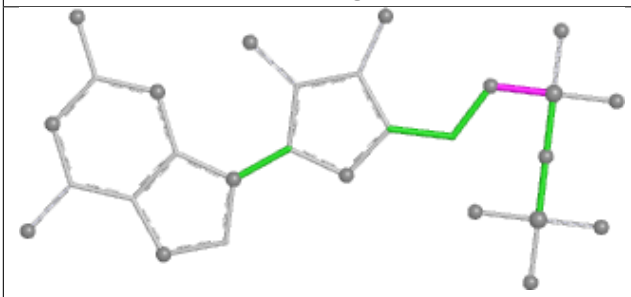

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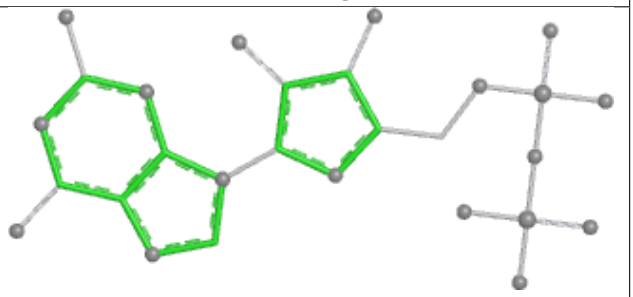
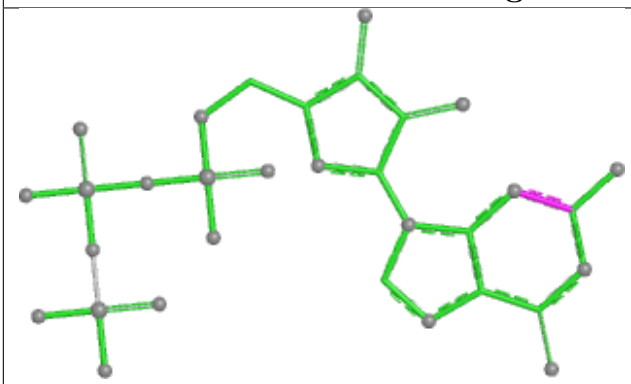


Rings

Ligand GTP WA 501



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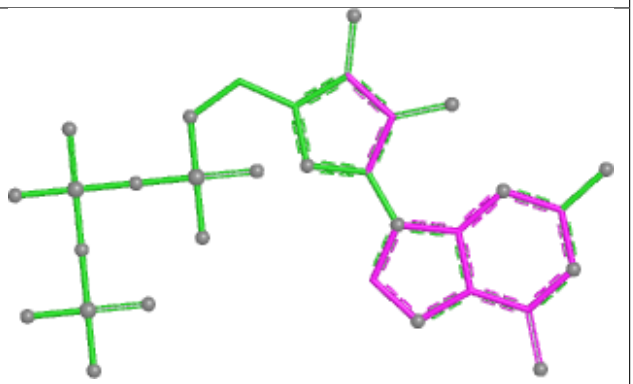

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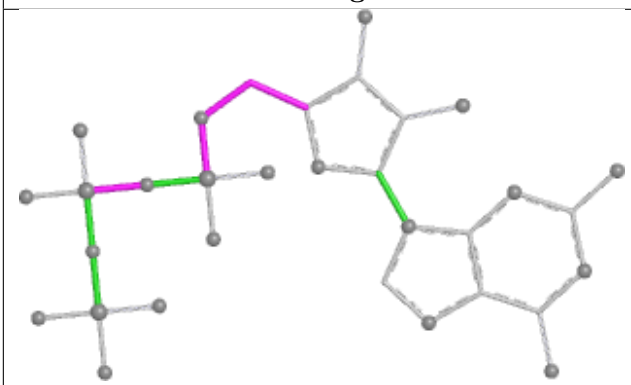

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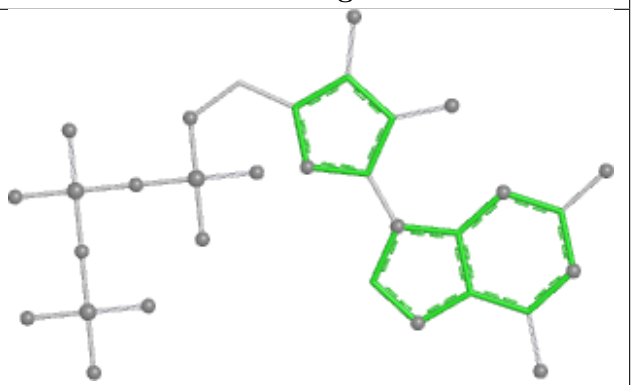
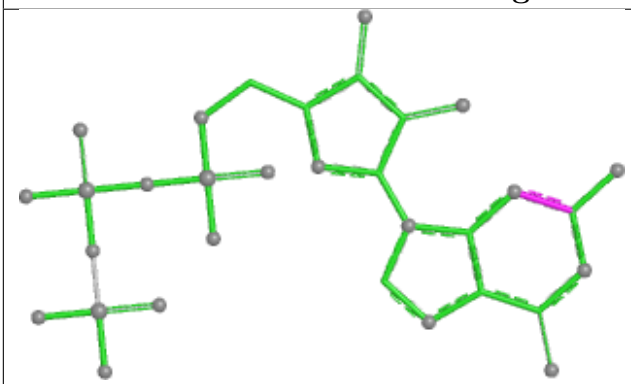


Rings

Ligand GTP JK 501



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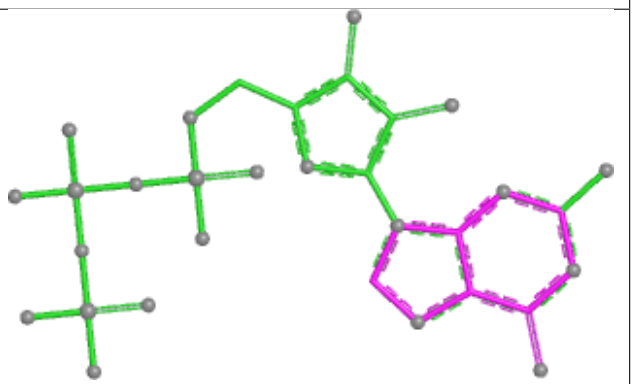

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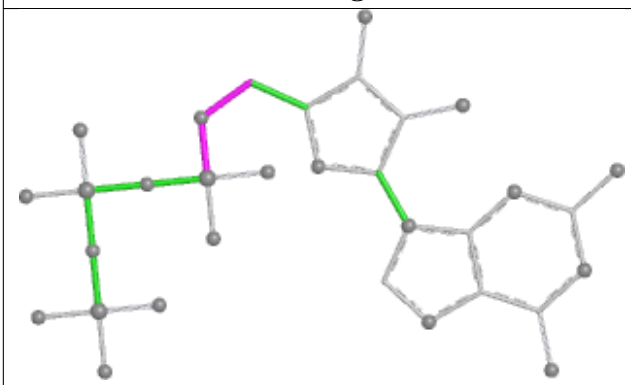

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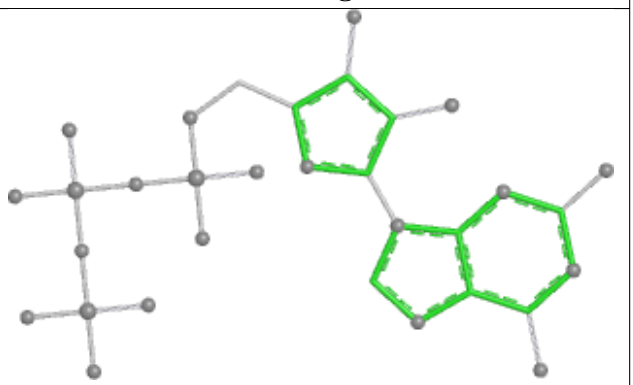
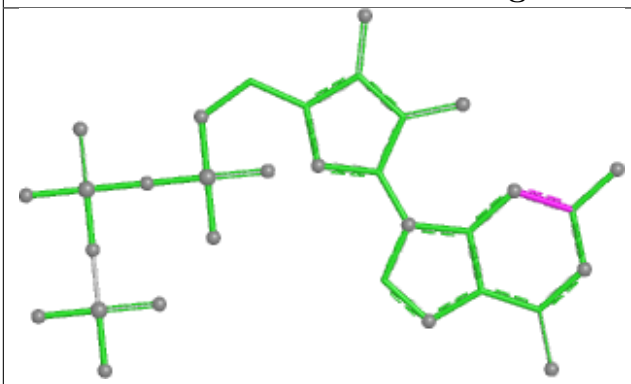


Rings

Ligand GTP AA 501



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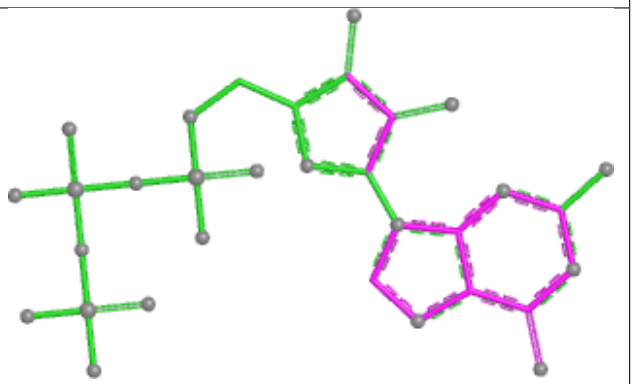

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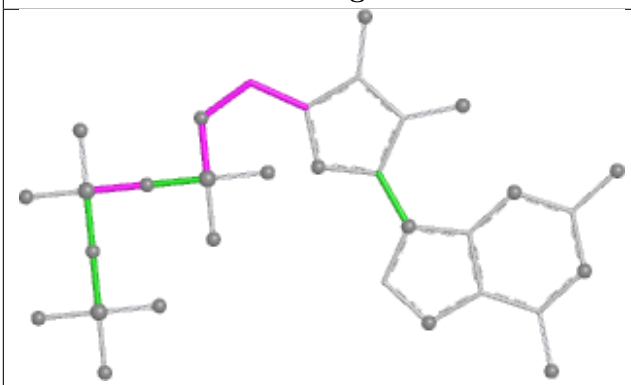

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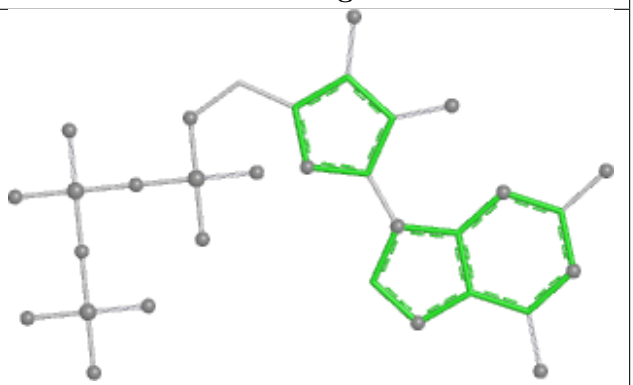
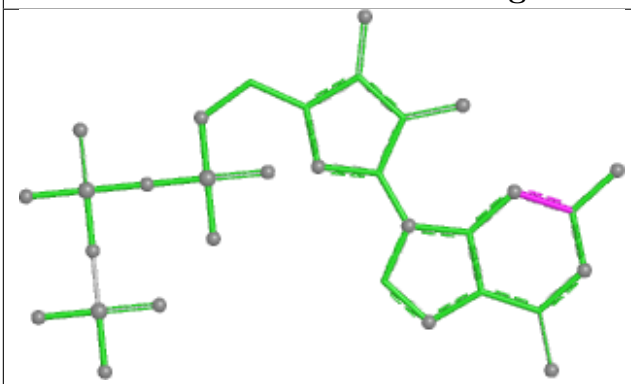


Rings

Ligand GTP HC 501



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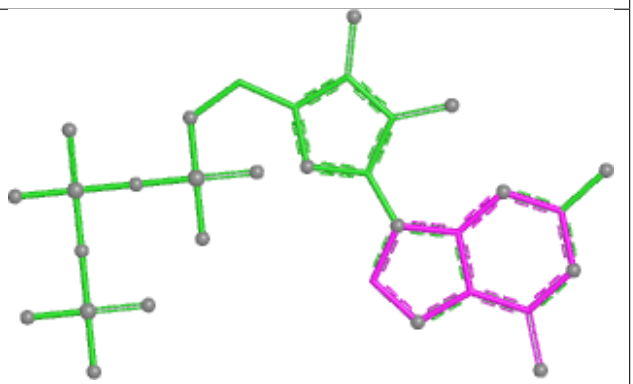

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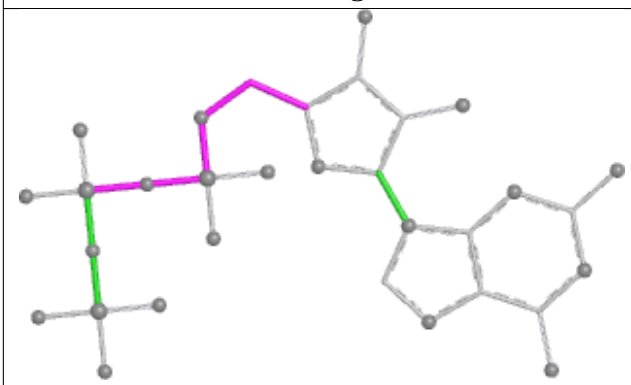

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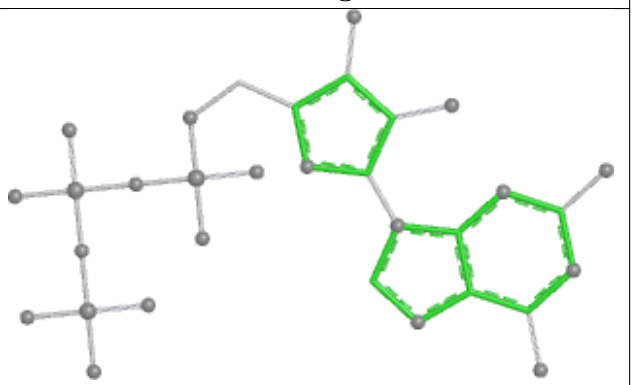
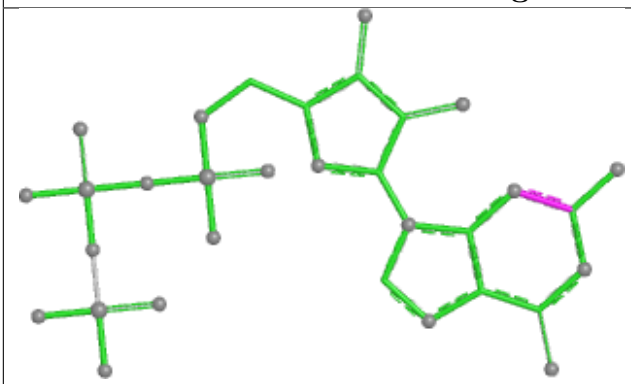


Rings

Ligand GTP TE 501



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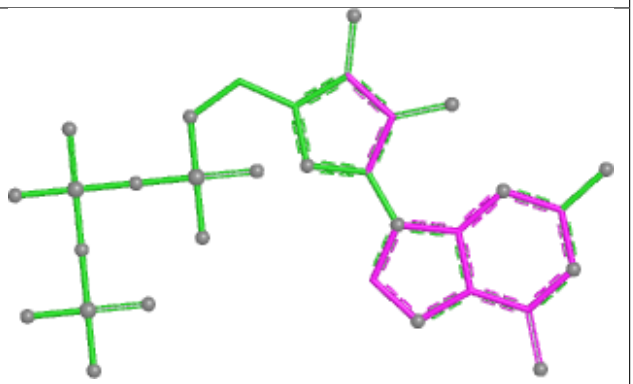

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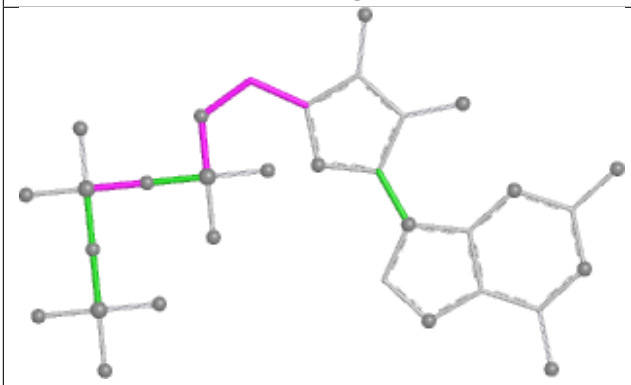

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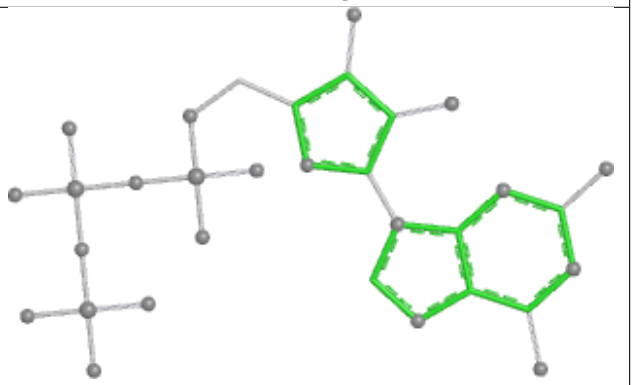
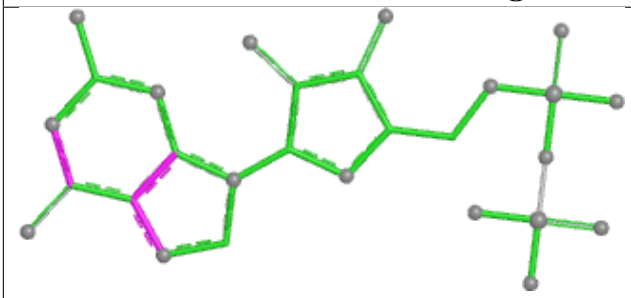


Rings

Ligand GDP OD 502



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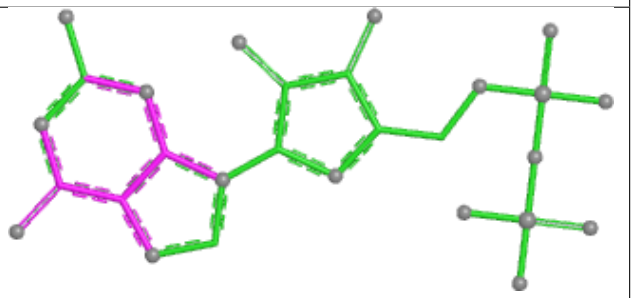

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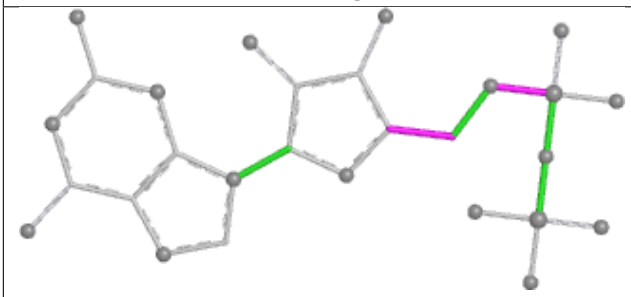

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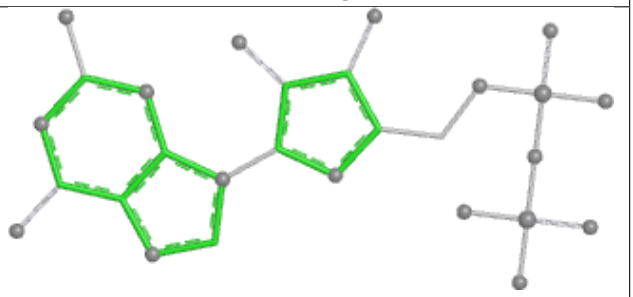

Rings

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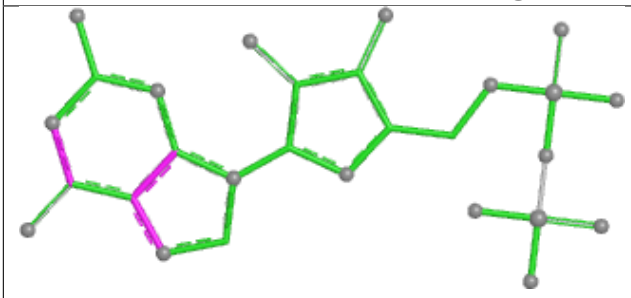
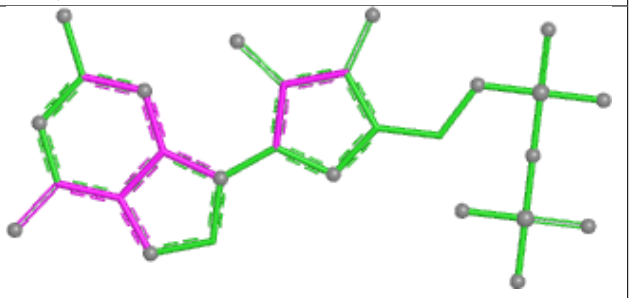


Bond lengths



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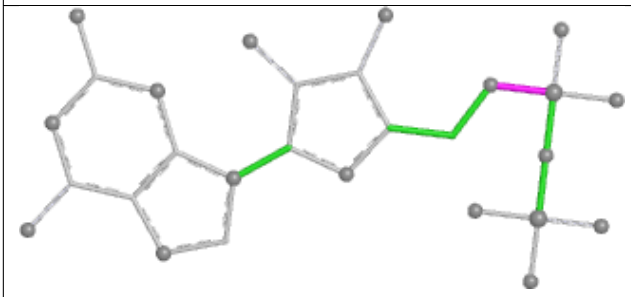
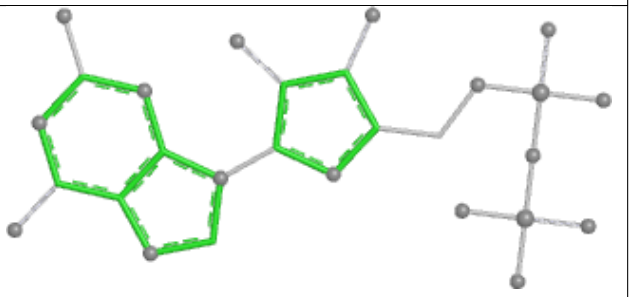
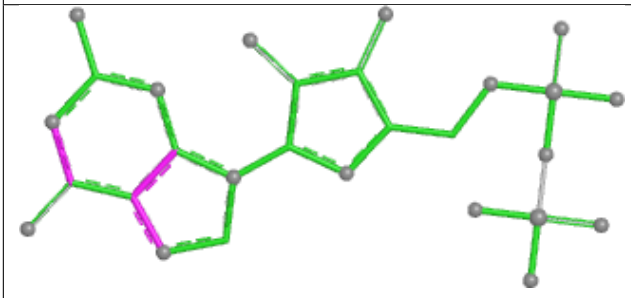


Torsions



Rings

Ligand GDP KN 502



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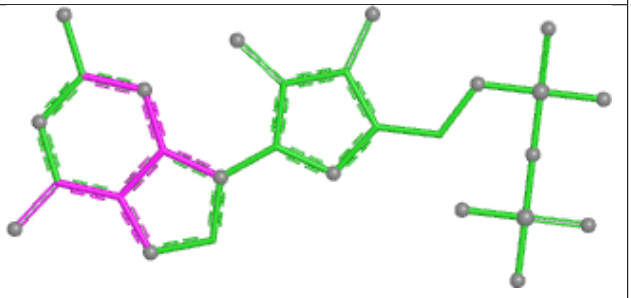

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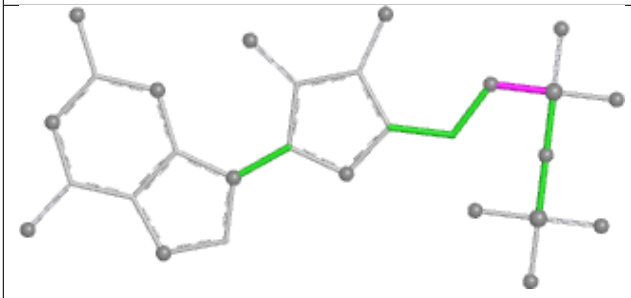

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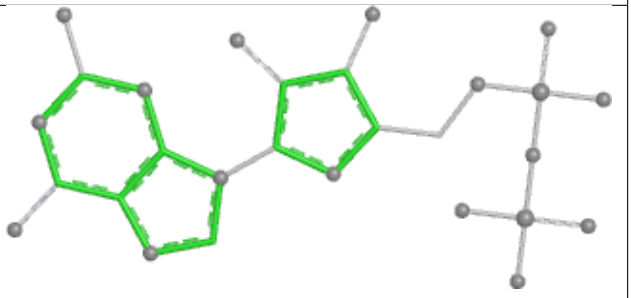
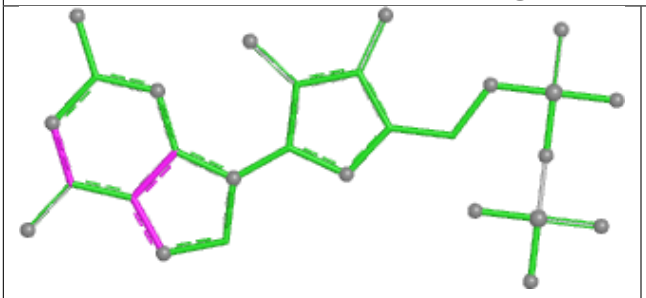


Rings

Ligand GDP PL 502



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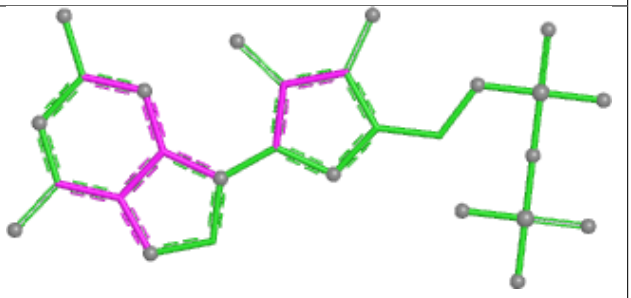

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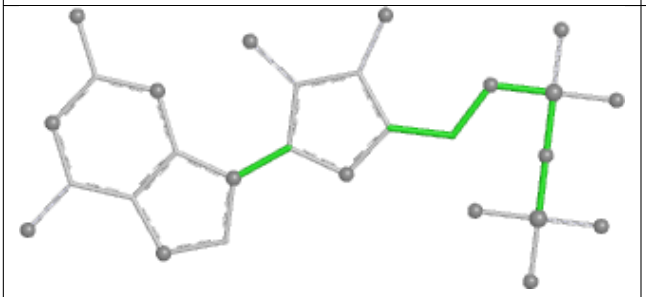

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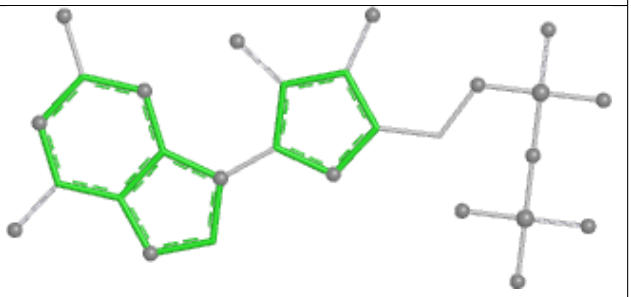
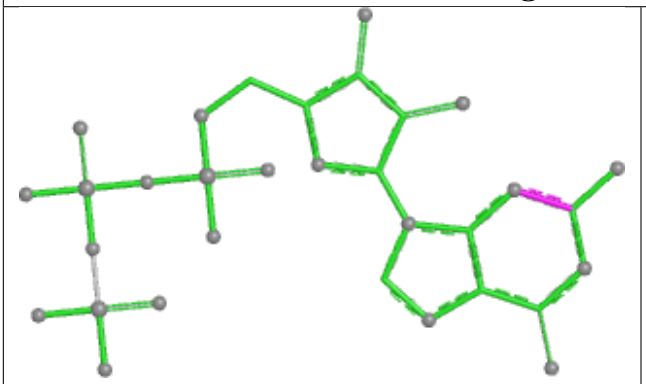


Rings

Ligand GTP JI 501



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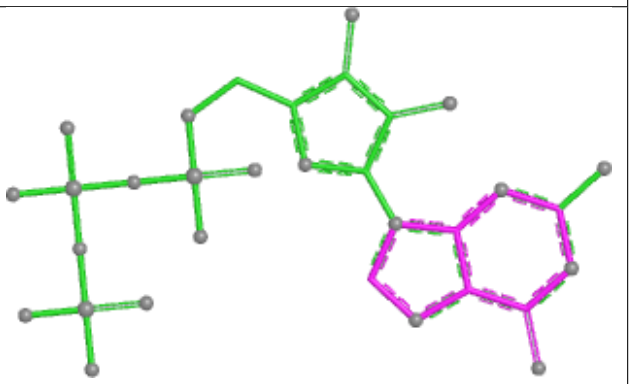

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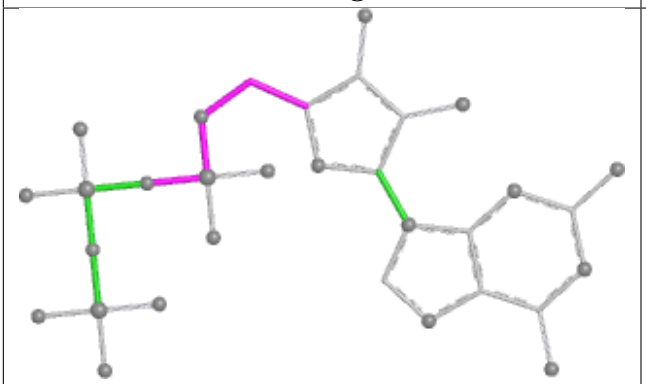

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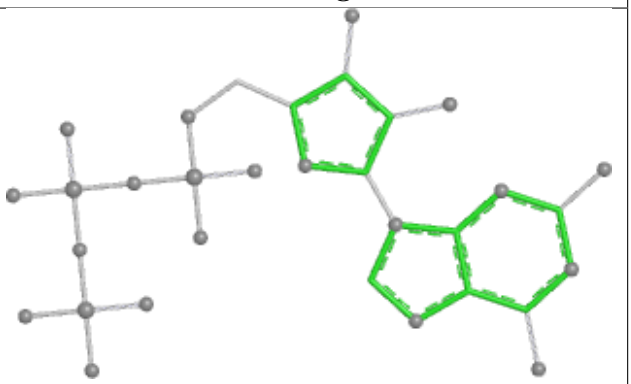
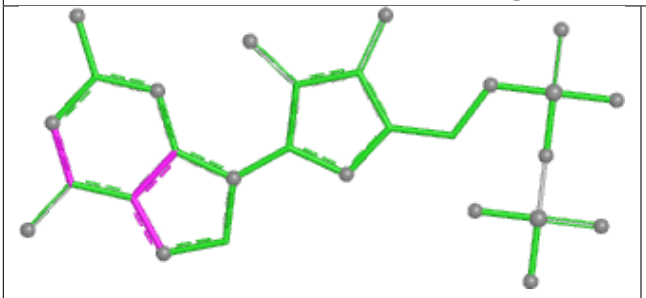


Rings

Ligand GDP PH 502



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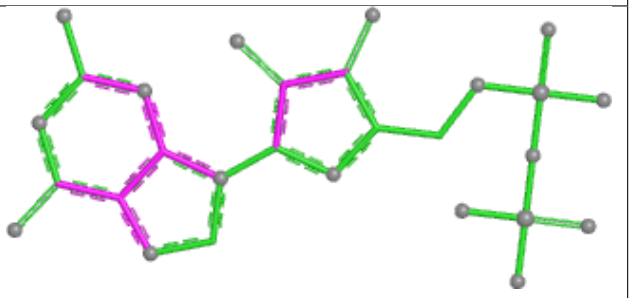

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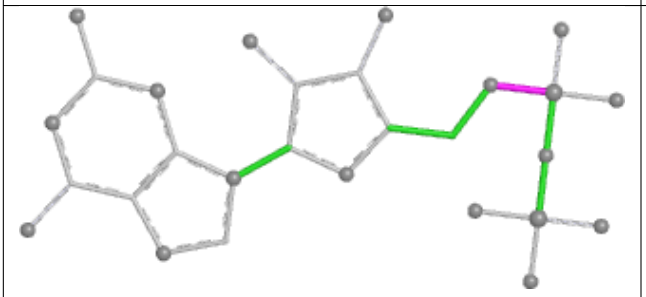

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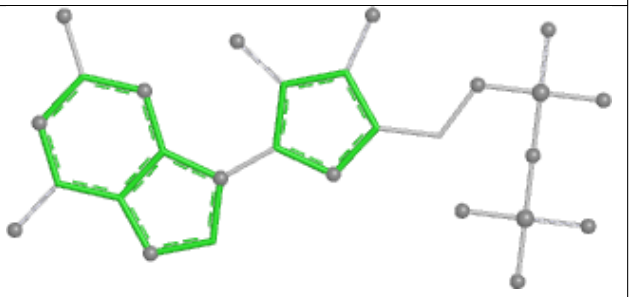
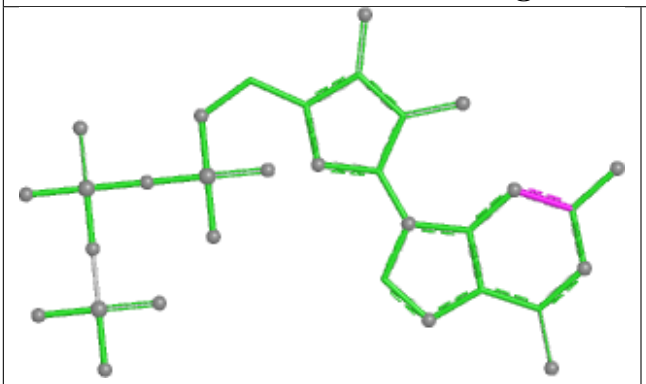


Rings

Ligand GTP IG 501



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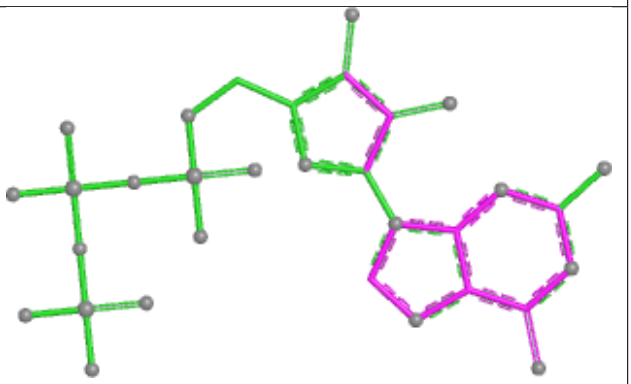

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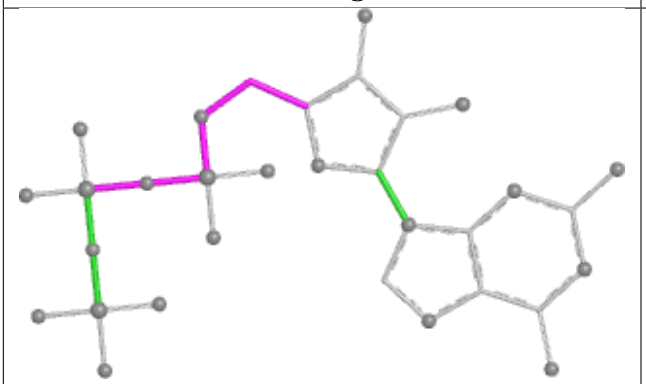

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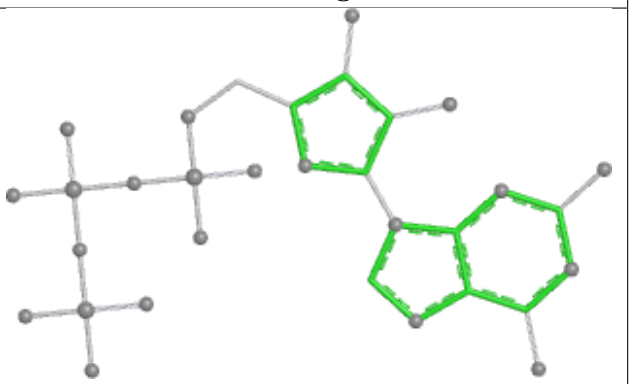
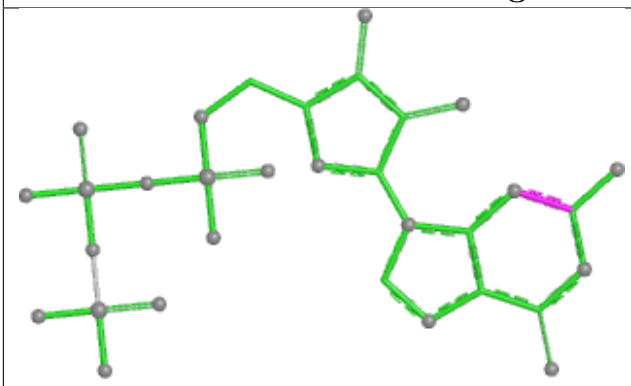


Rings

Ligand GTP DQ 501



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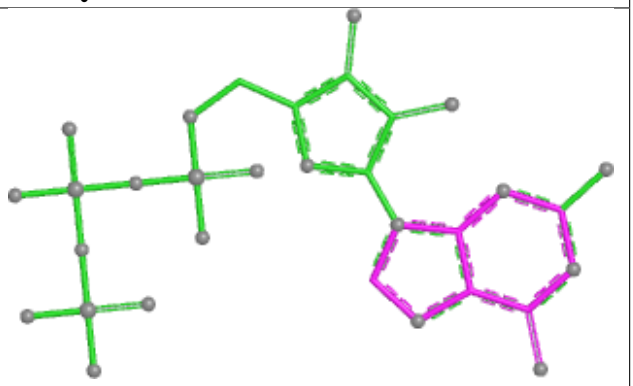

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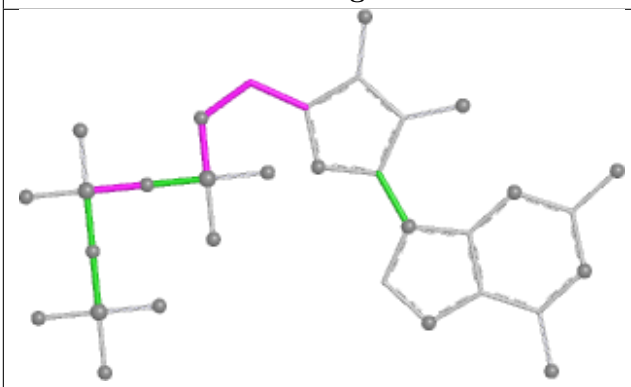

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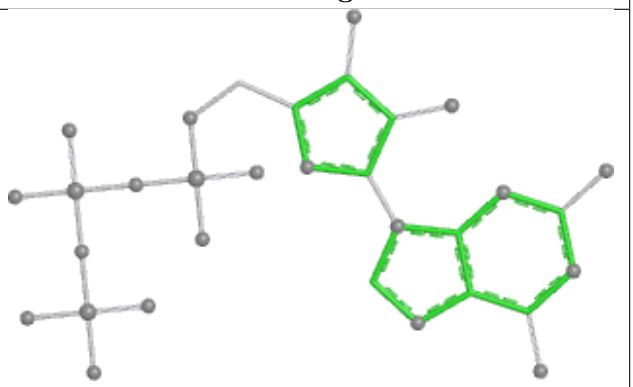
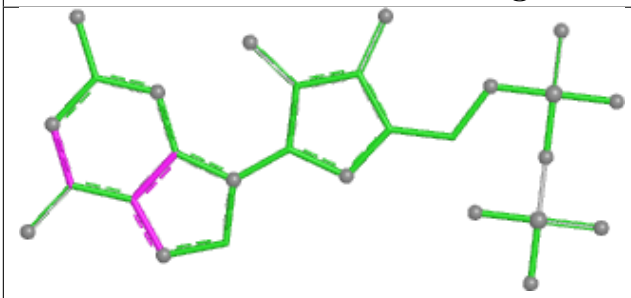


Rings

Ligand GDP GJ 502



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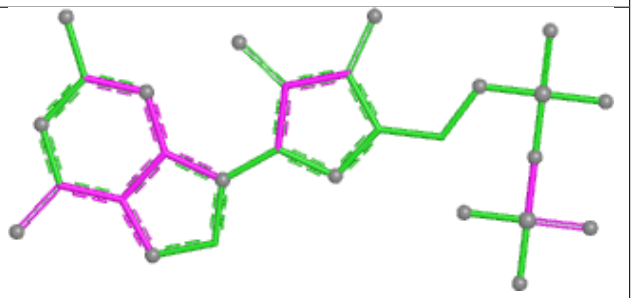

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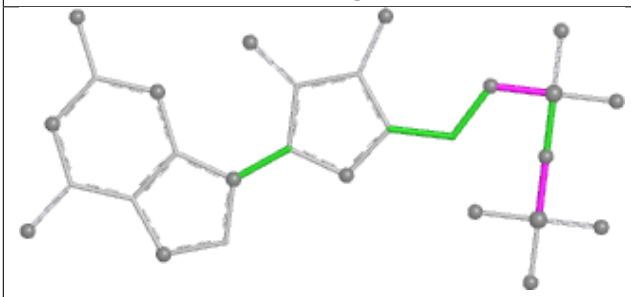

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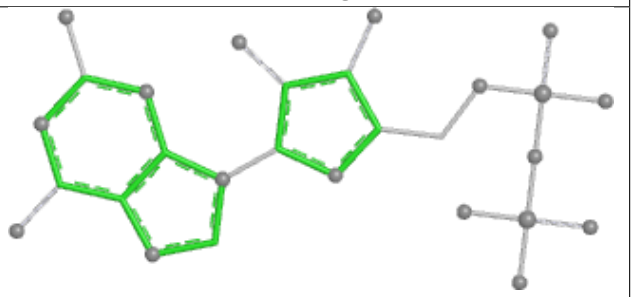
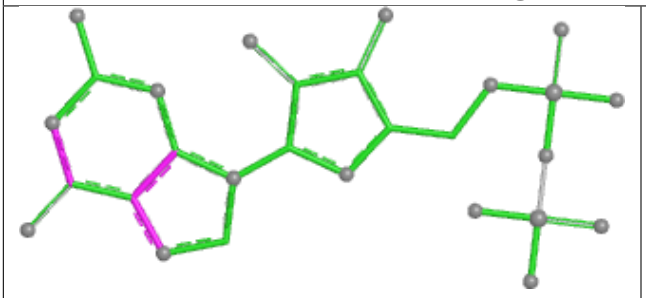


Rings

Ligand GDP SB 502



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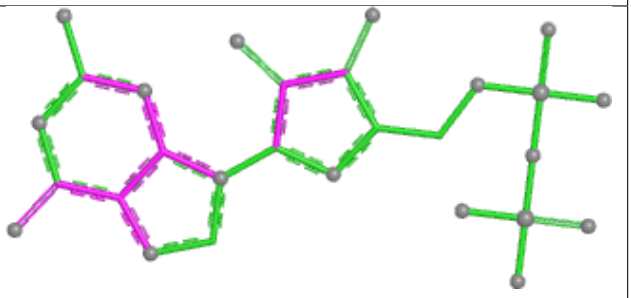

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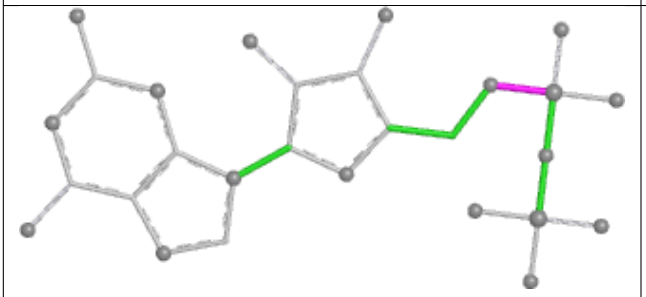

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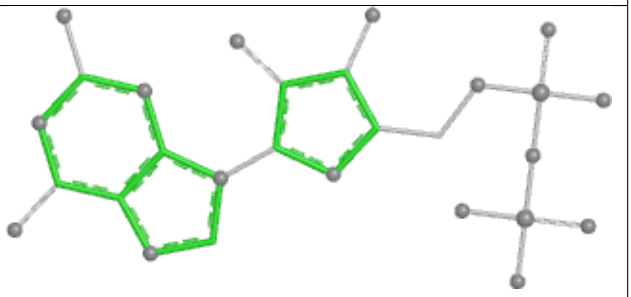
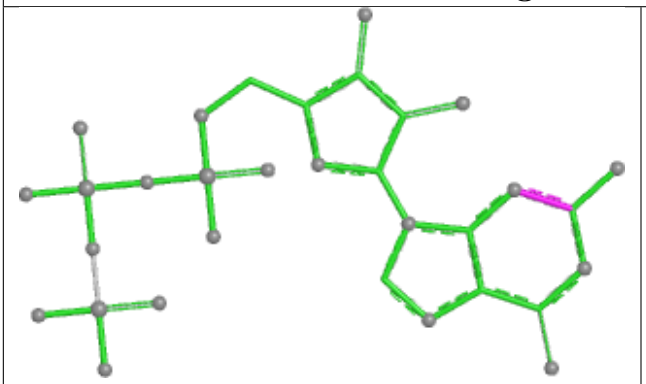


Rings

Ligand GTP CI 501



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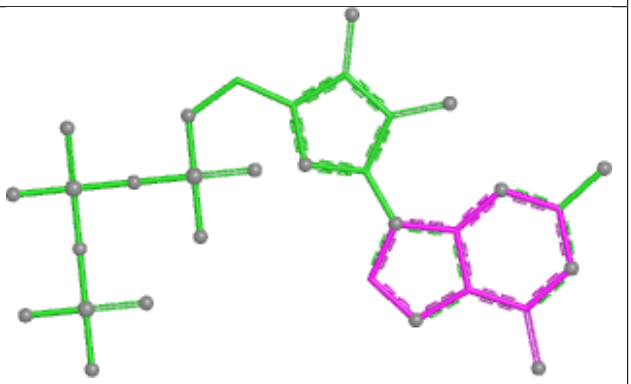

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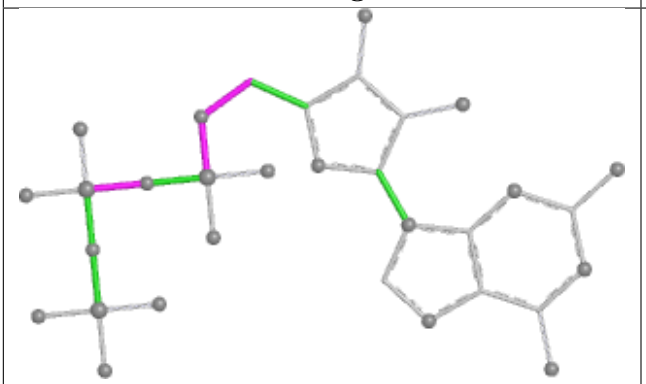

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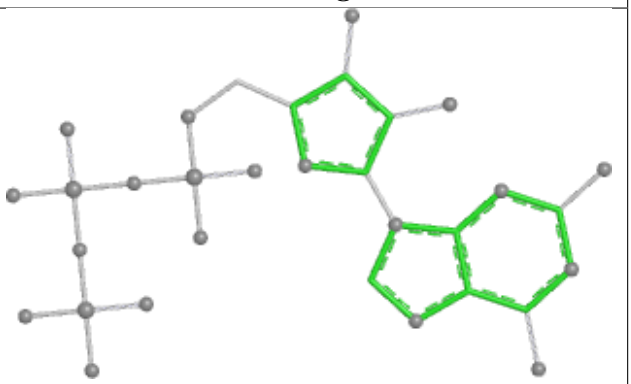
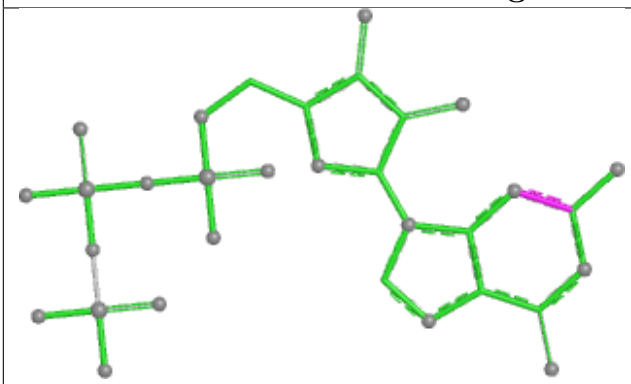


Rings

Ligand GTP GA 501



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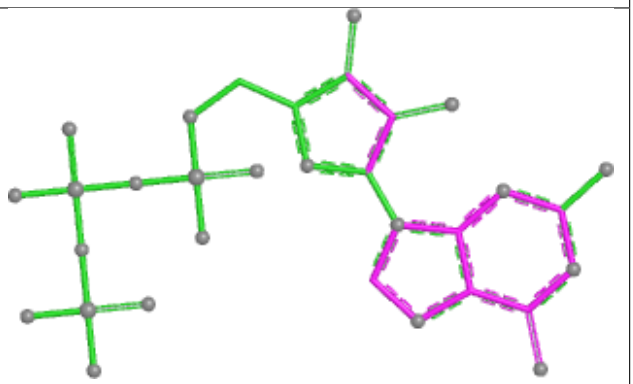

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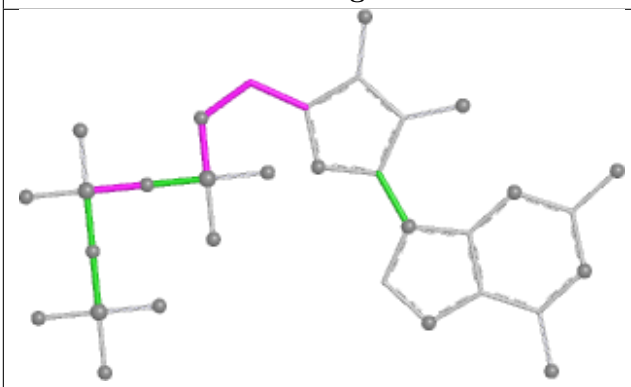

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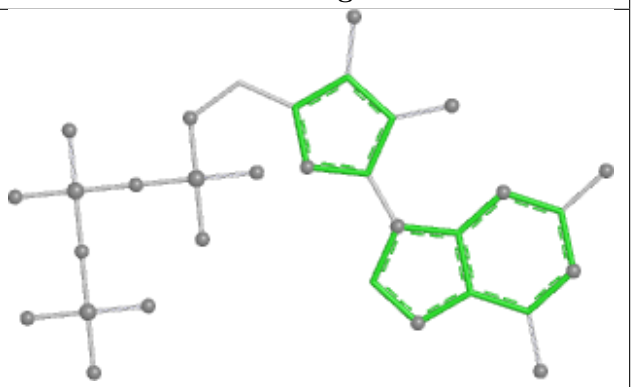
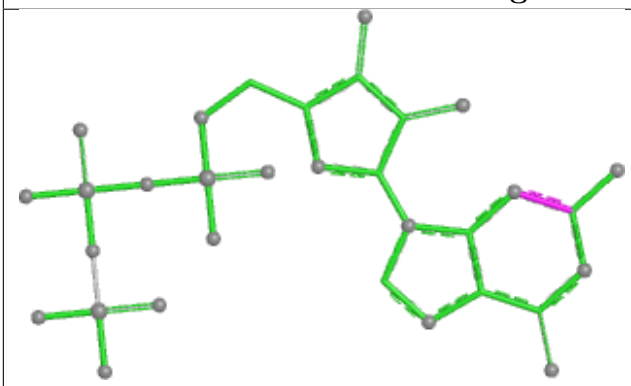


Rings

Ligand GTP HE 501



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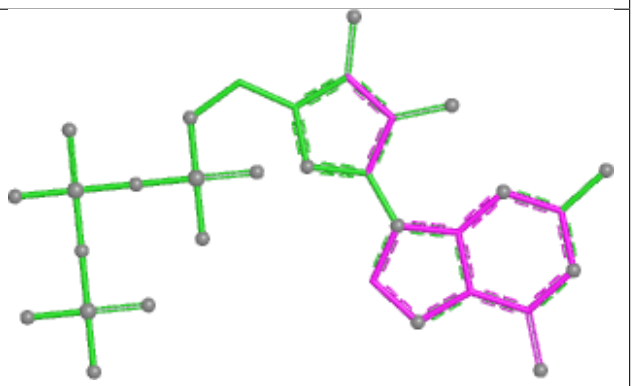

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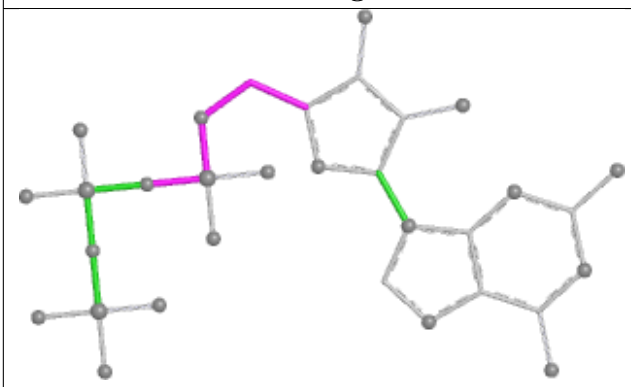

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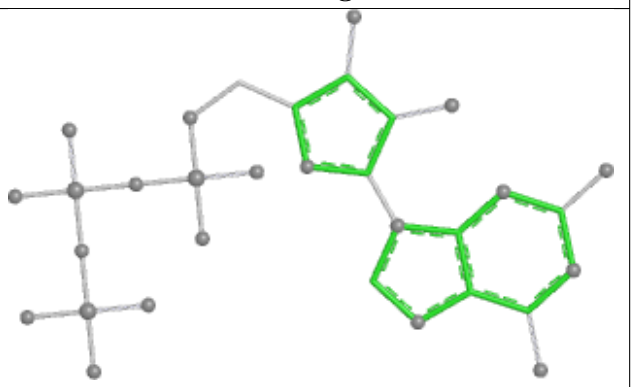
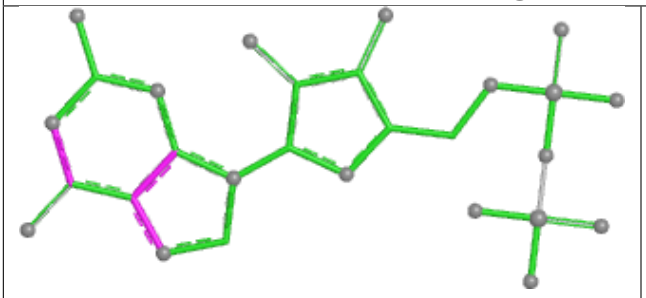


Rings

Ligand GDP KJ 502



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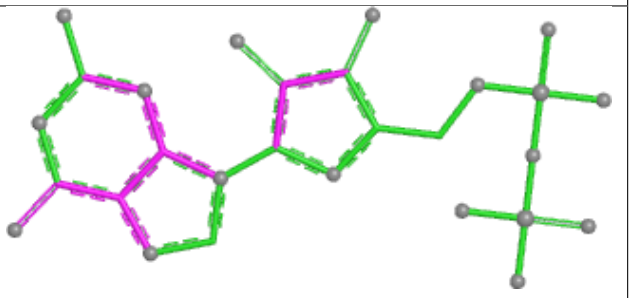

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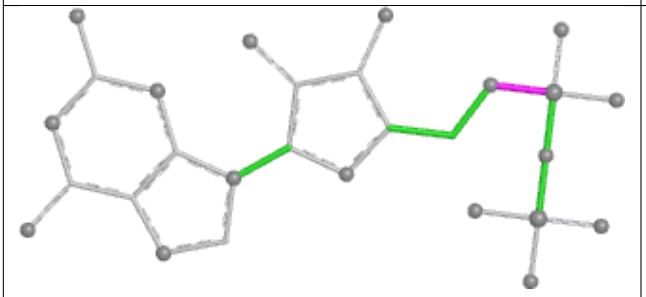

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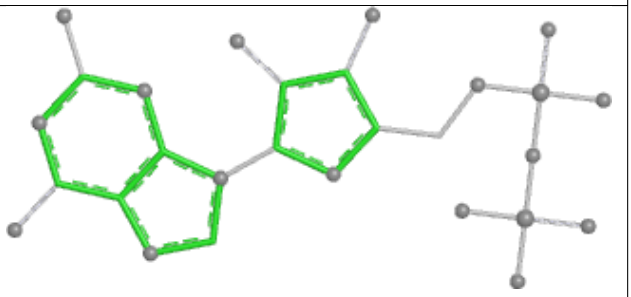
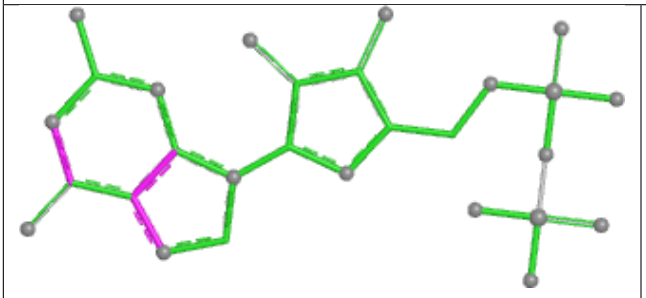


Rings

Ligand GDP TF 502



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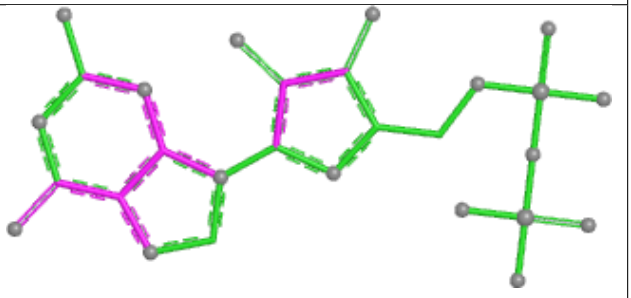
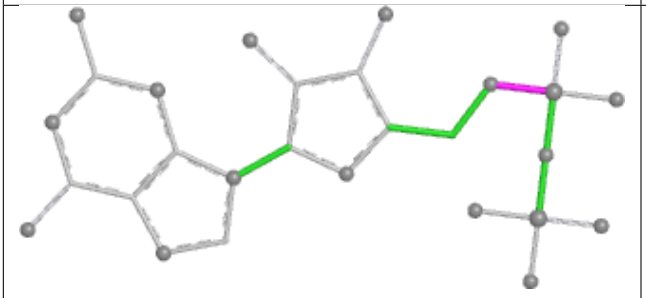


Bond angles



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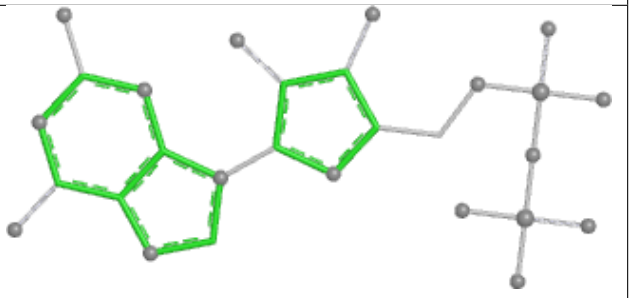
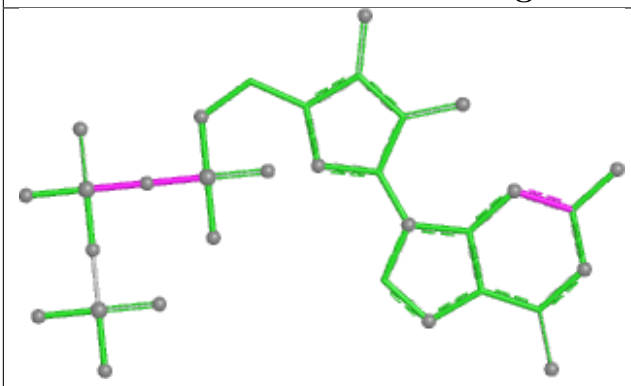


Rings

Ligand GTP VI 501



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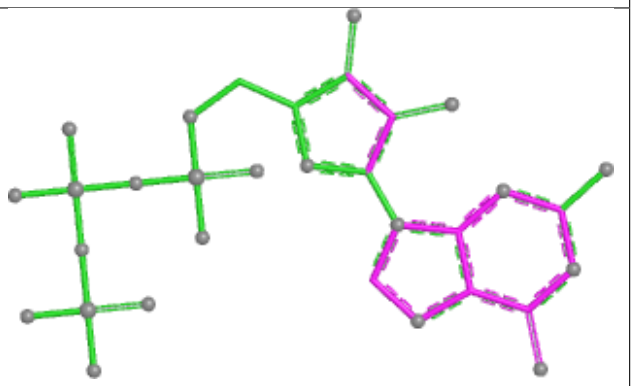

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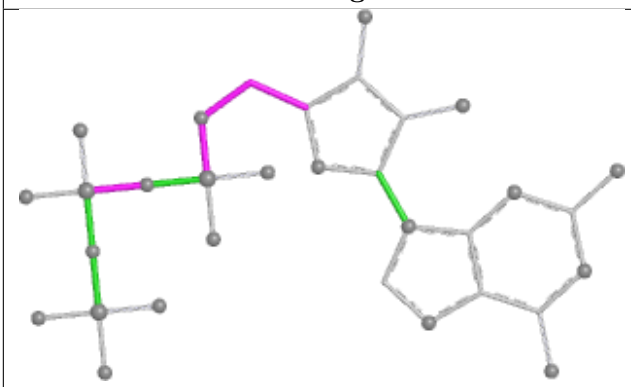
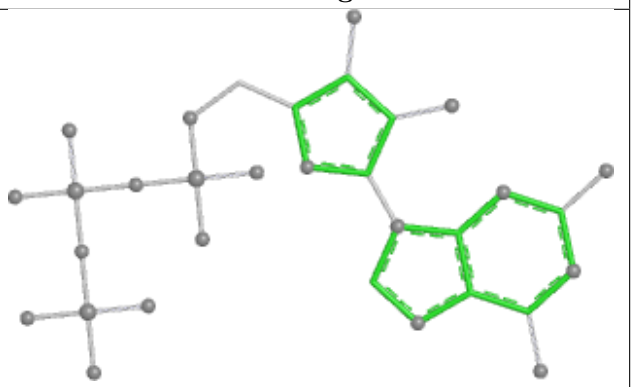
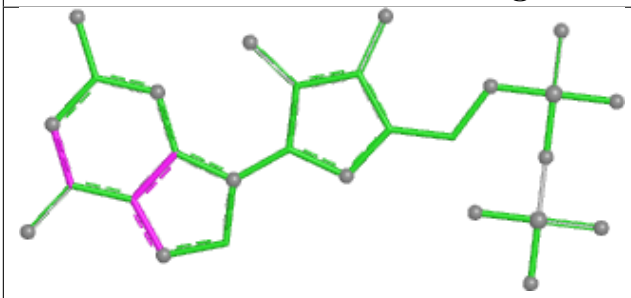


Torsions



Rings

Ligand GDP LP 502



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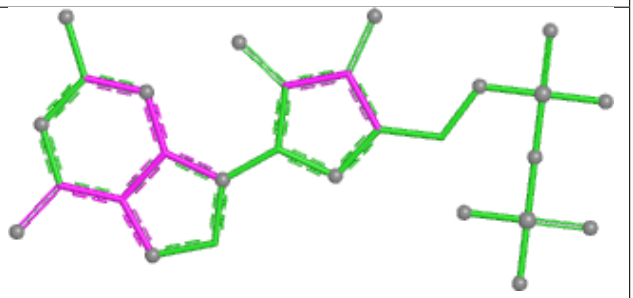

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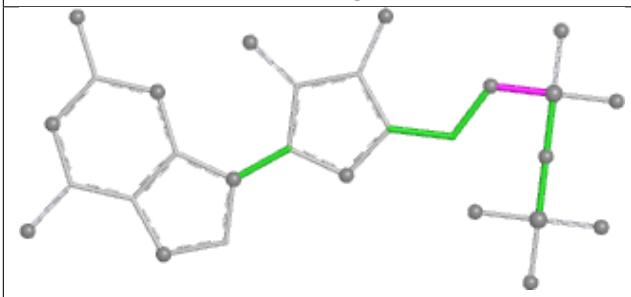

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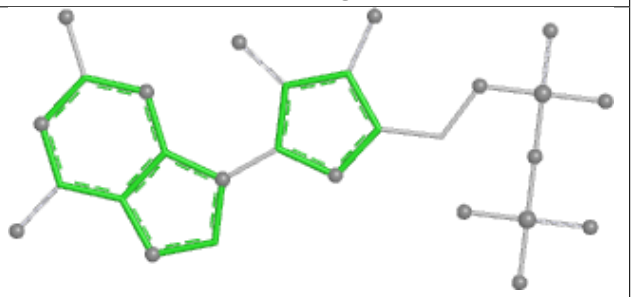
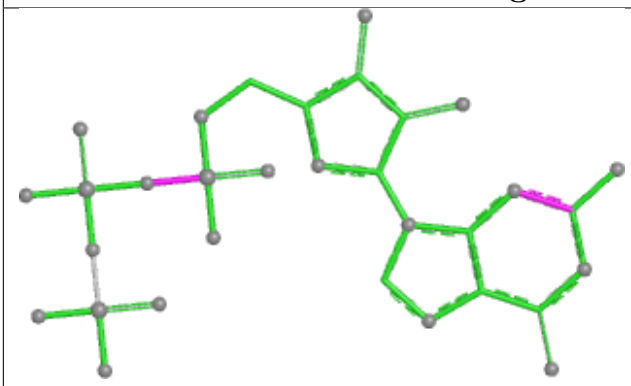


Rings

Ligand GTP RC 501



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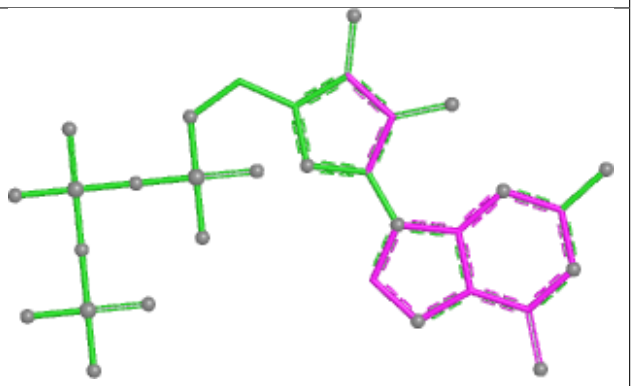

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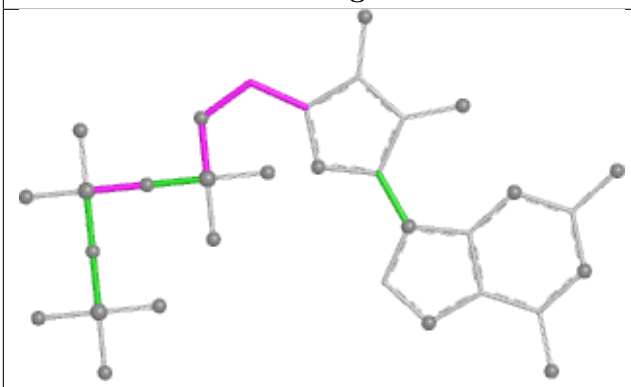

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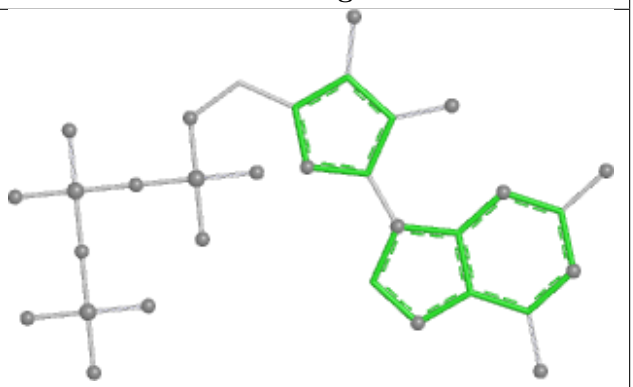
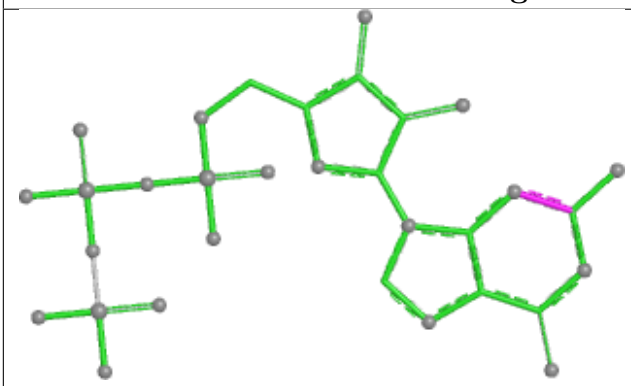


Rings

Ligand GTP OE 501



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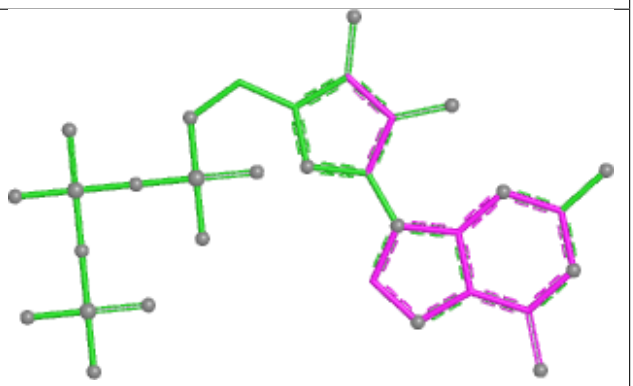

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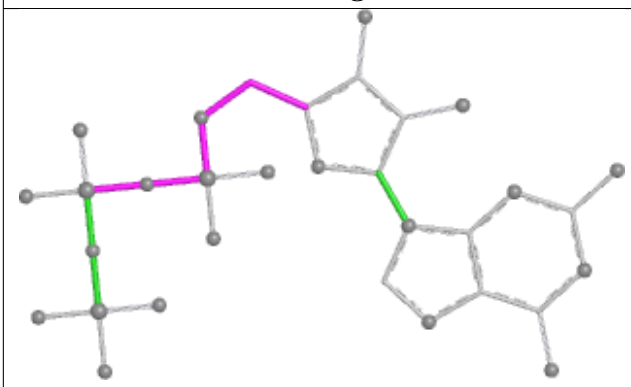

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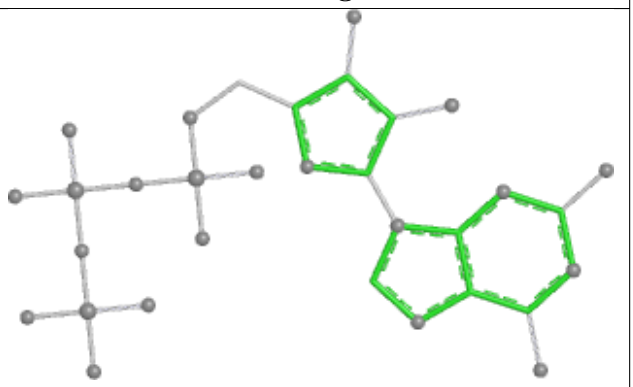
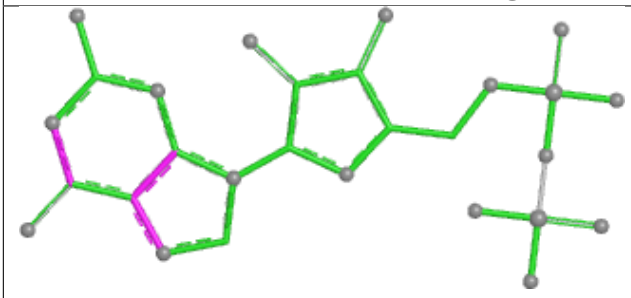


Rings

Ligand GDP MD 502



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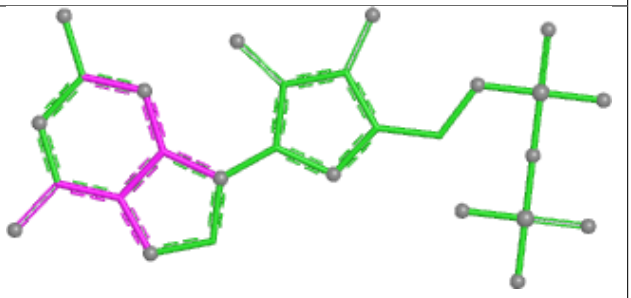

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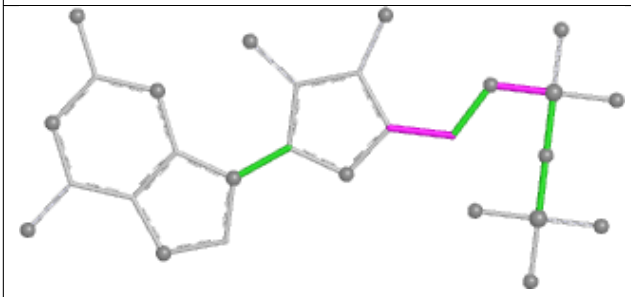

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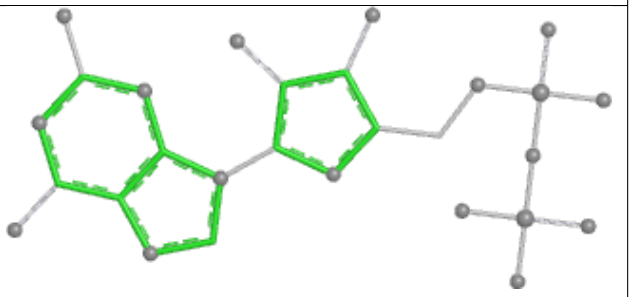
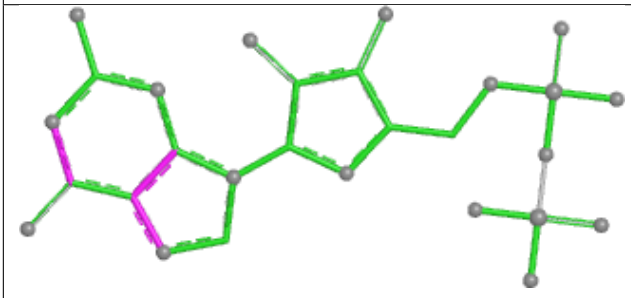


Rings

Ligand GDP WN 502



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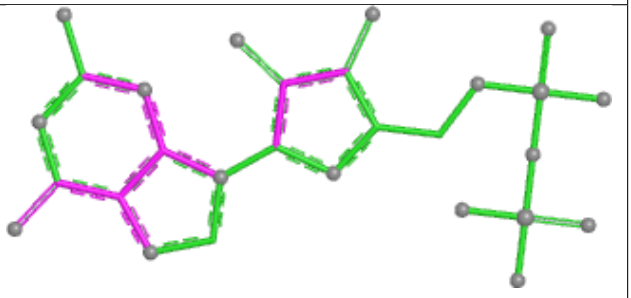

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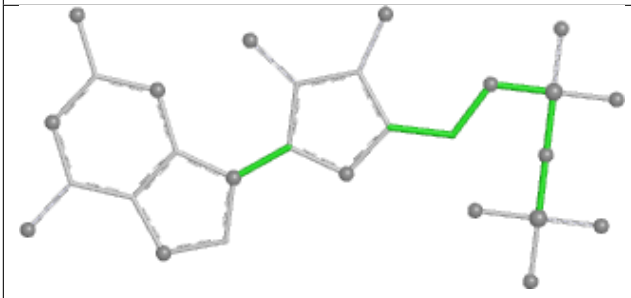

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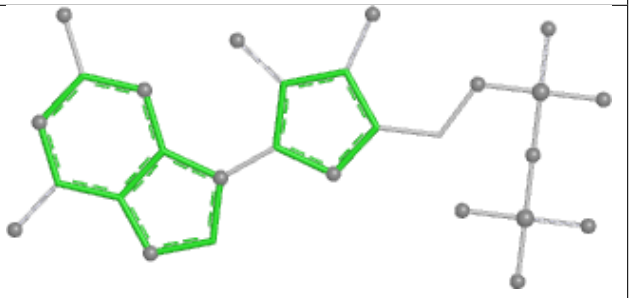
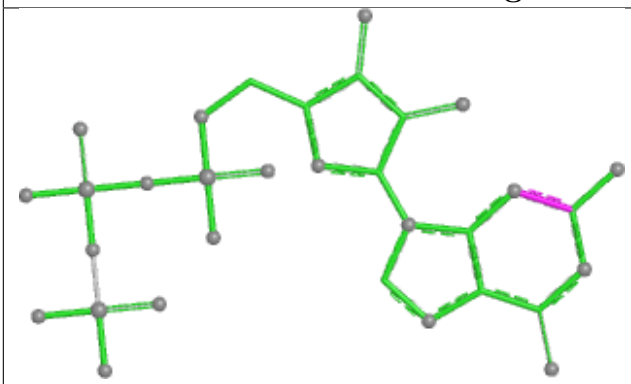


Rings

Ligand GTP MK 501



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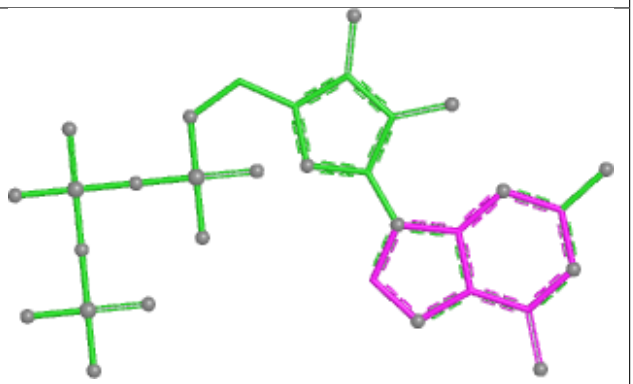

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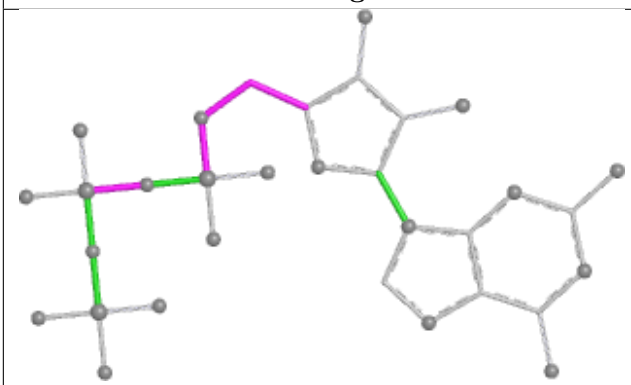

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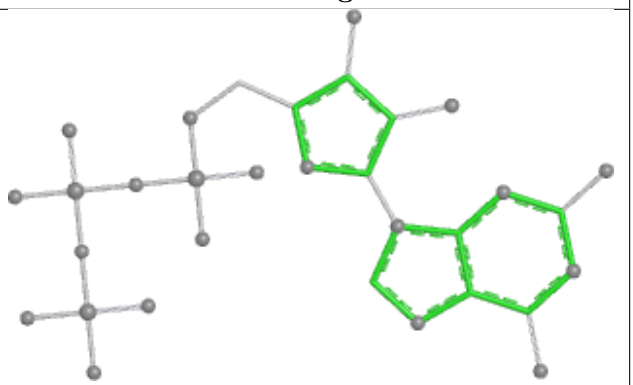
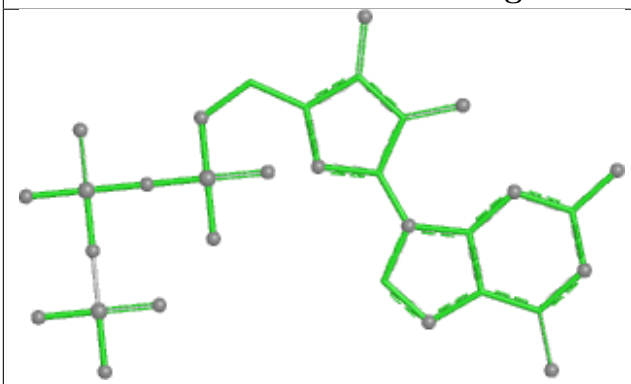


Rings

Ligand GTP NM 501



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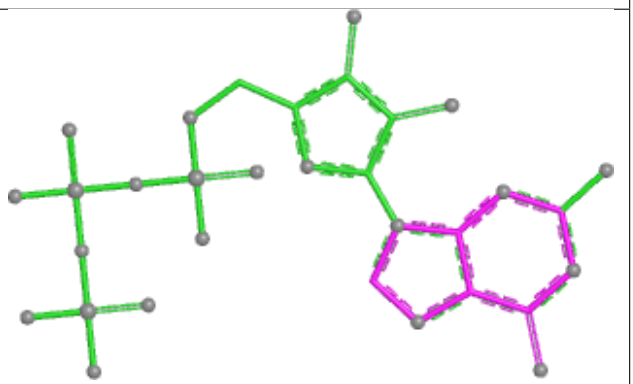

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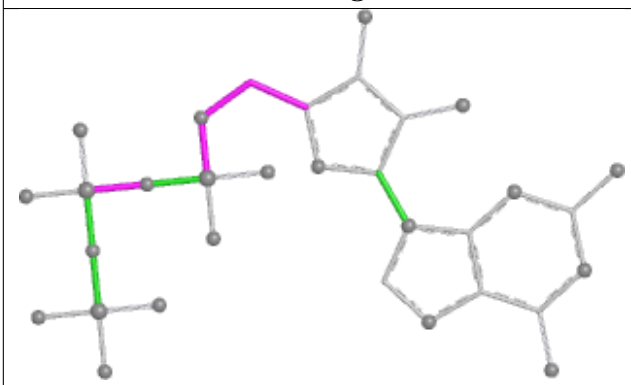

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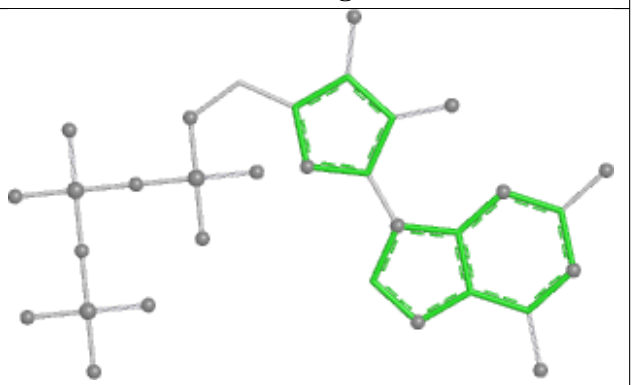
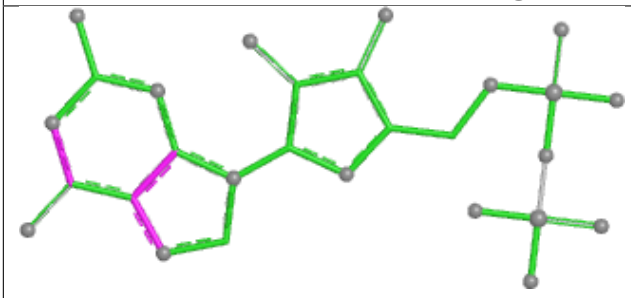


Rings

Ligand GDP VL 502



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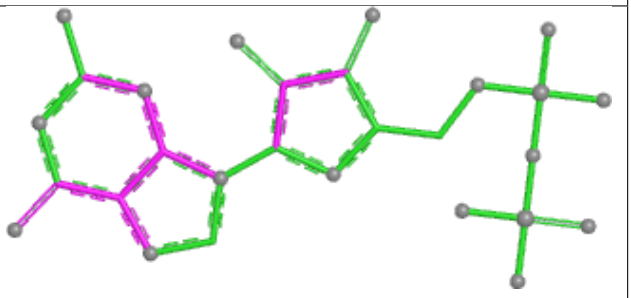

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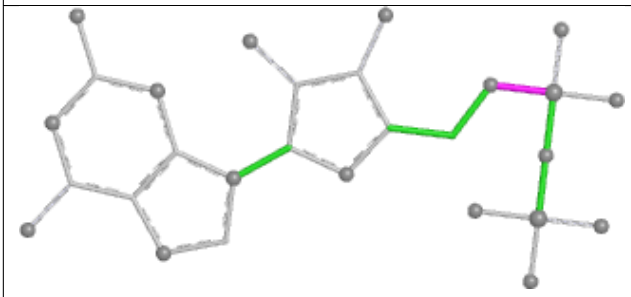

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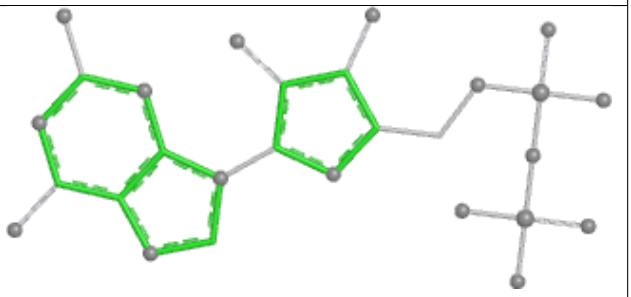

Rings

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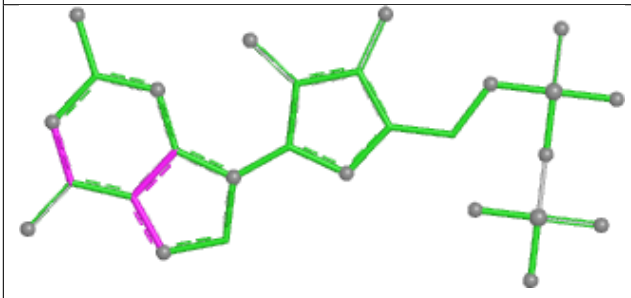

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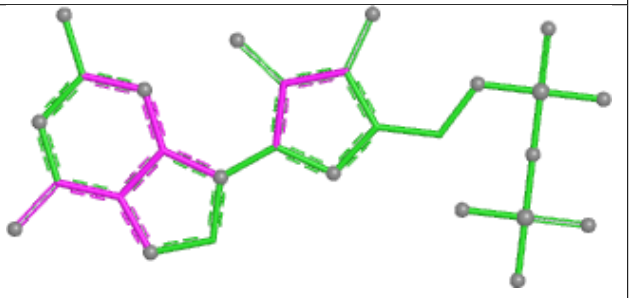

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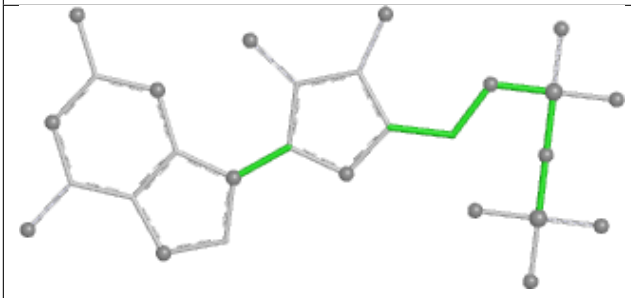

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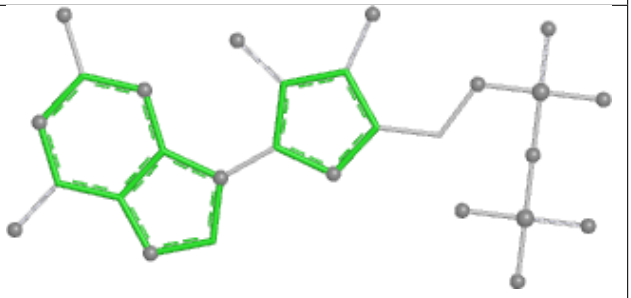
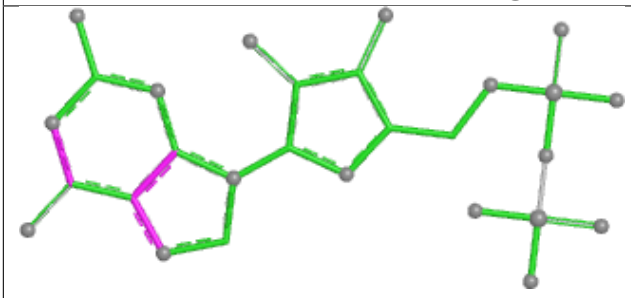


Rings

Ligand GDP HD 502



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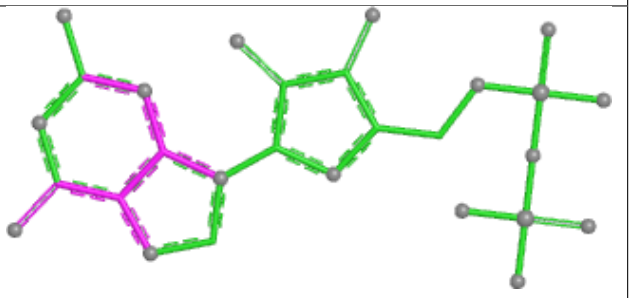

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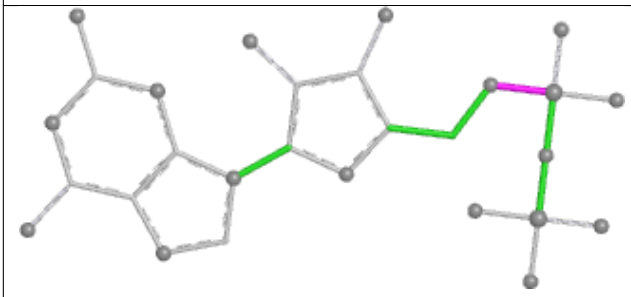

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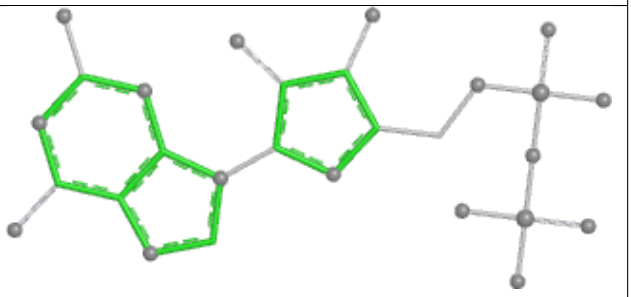
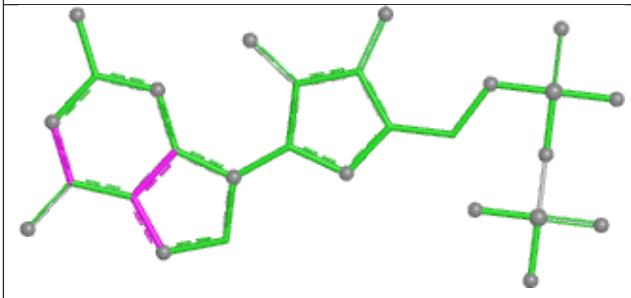


Rings

Ligand GDP FN 502



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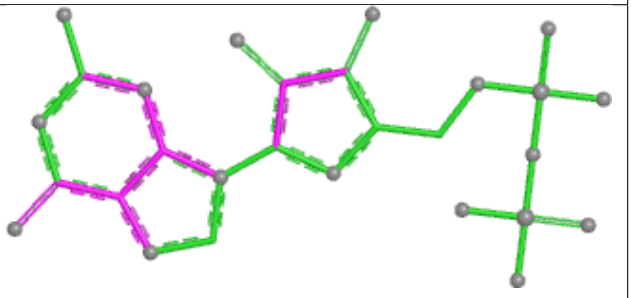
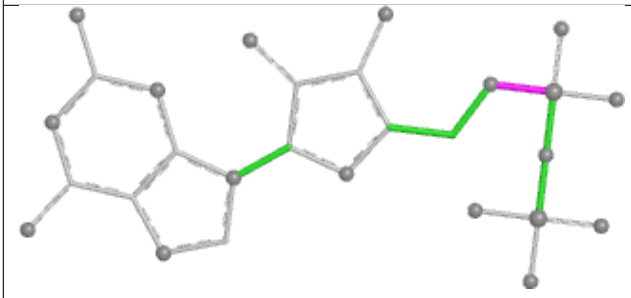


Bond angles



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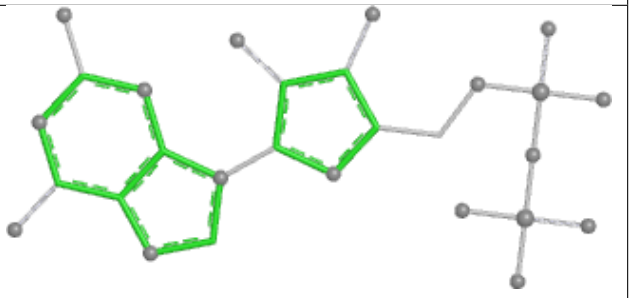
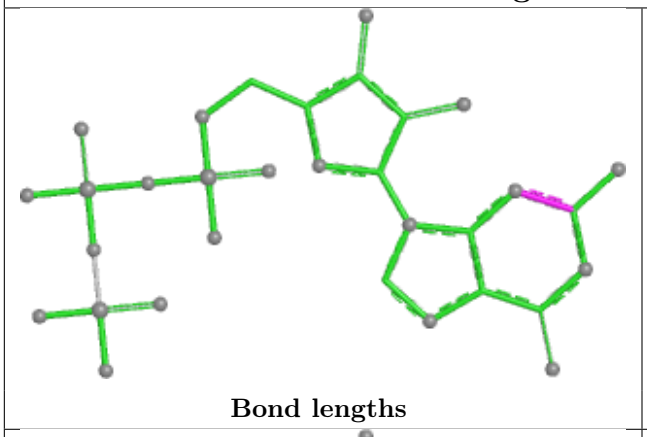


Rings

Ligand GTP IM 501



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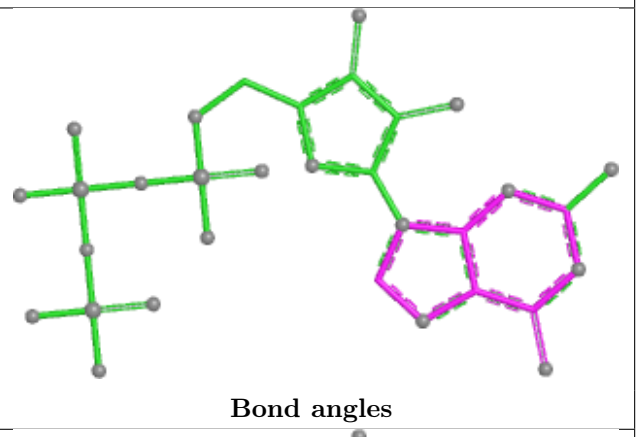

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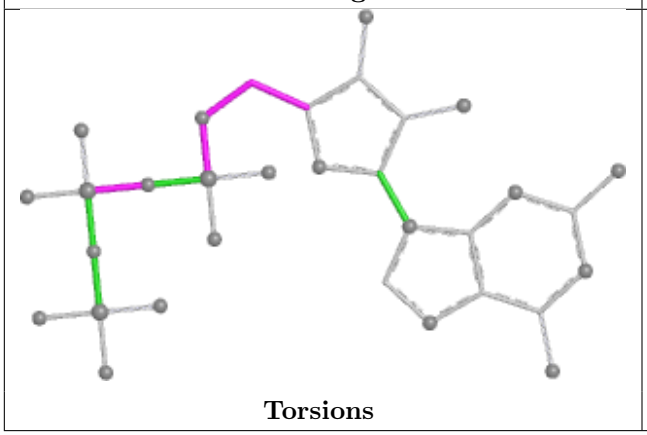

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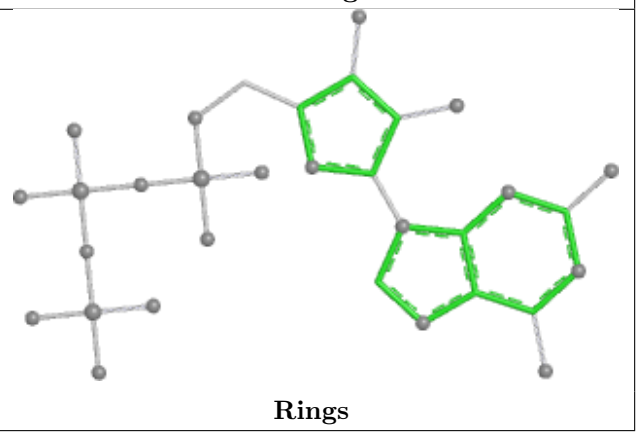
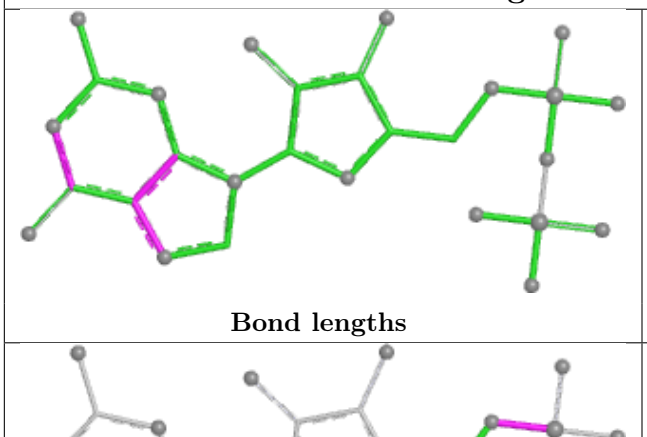


Rings

Ligand GDP ND 502



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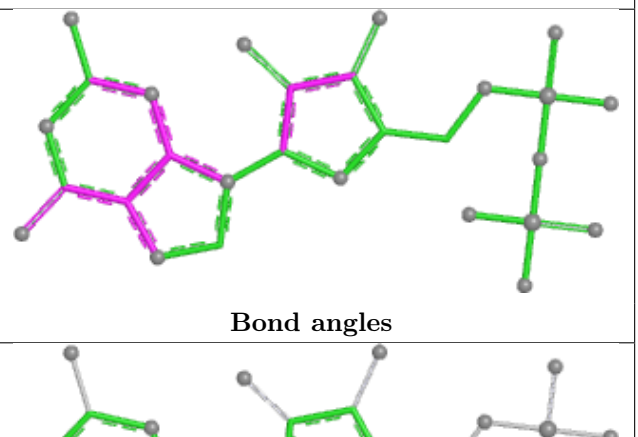

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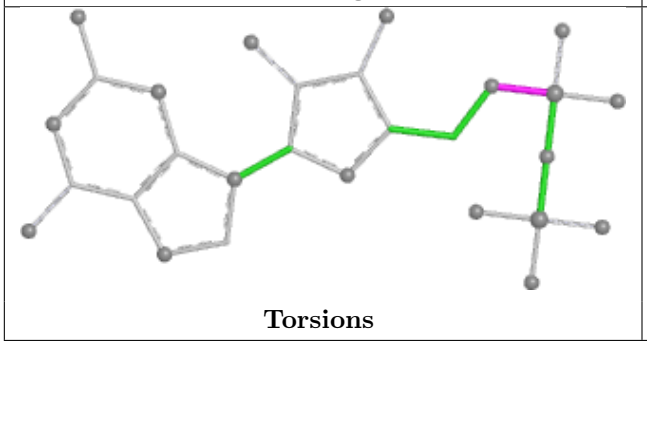

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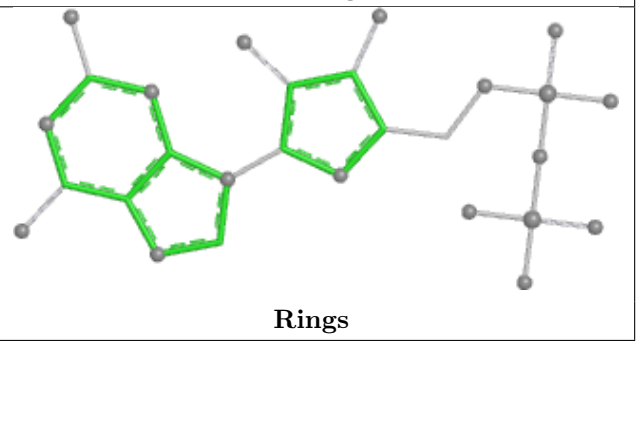
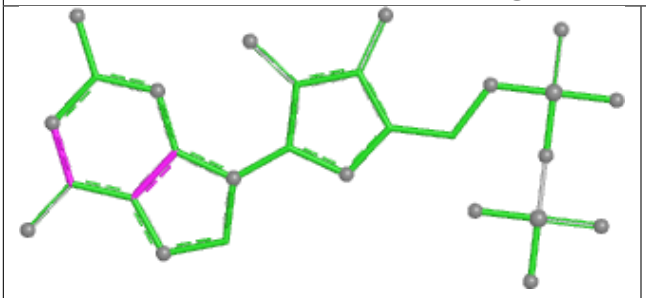


Rings

Ligand GDP OB 502



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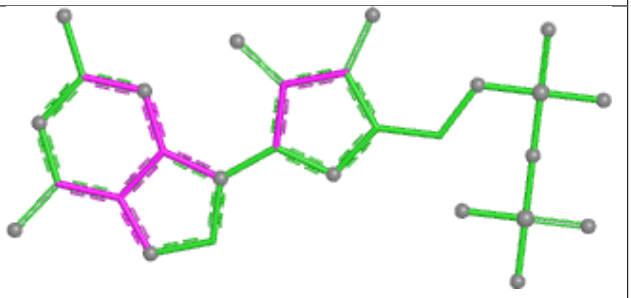

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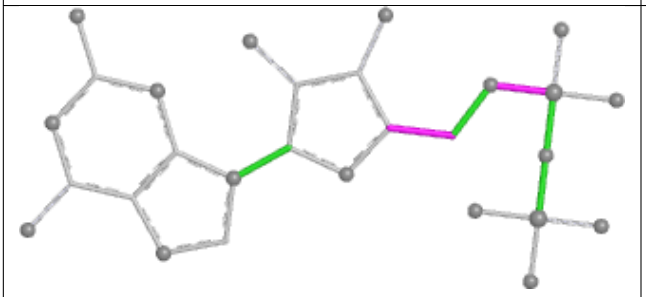
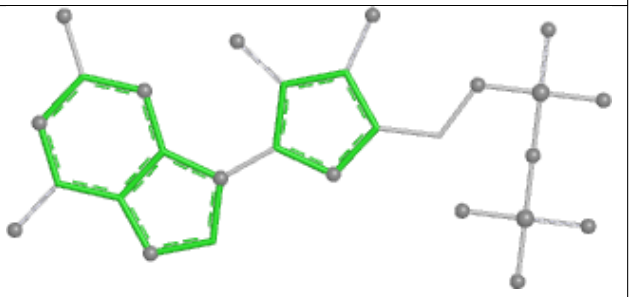
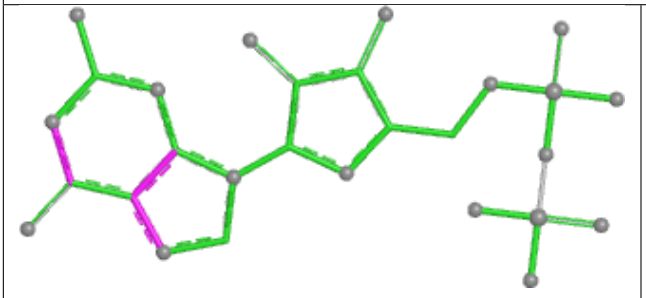


Torsions



Rings

Ligand GDP CH 502



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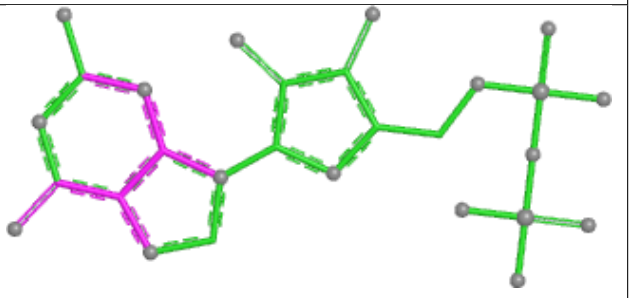

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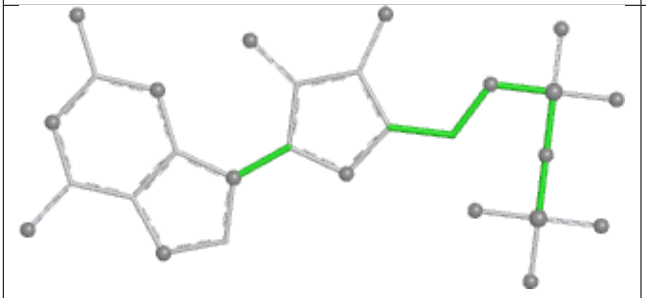

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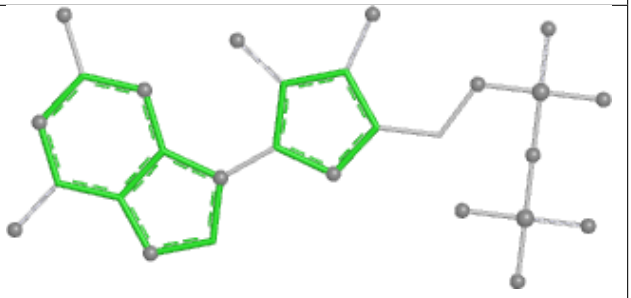
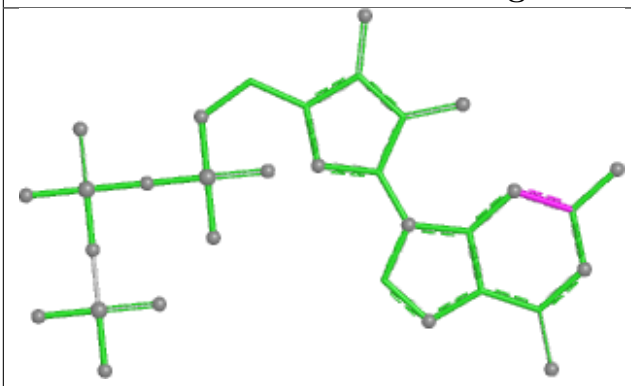


Rings

Ligand GTP OG 501



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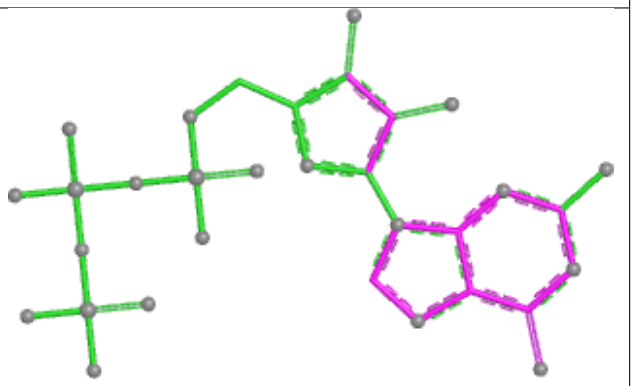

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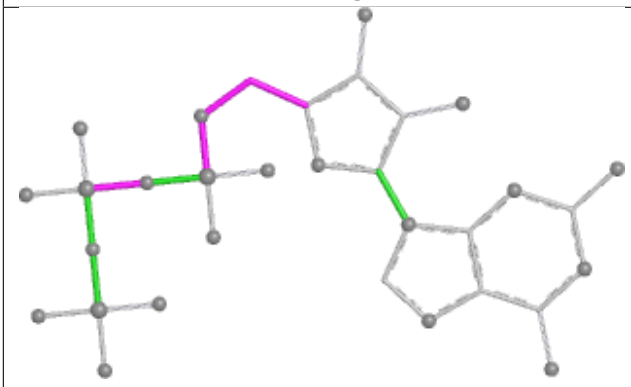

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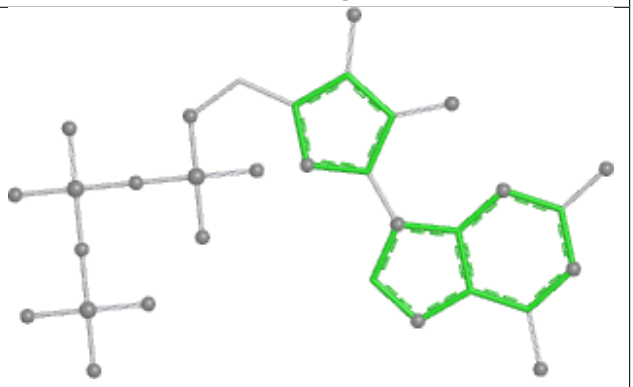

Rings

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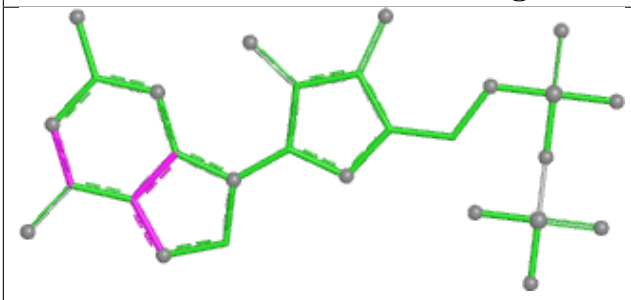

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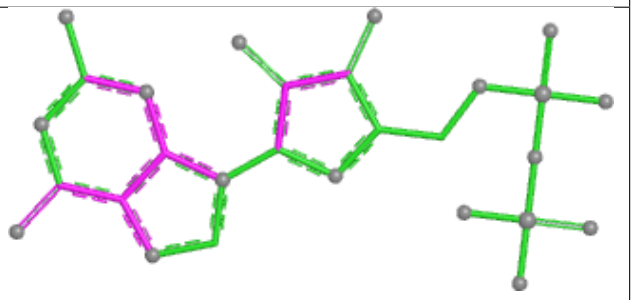

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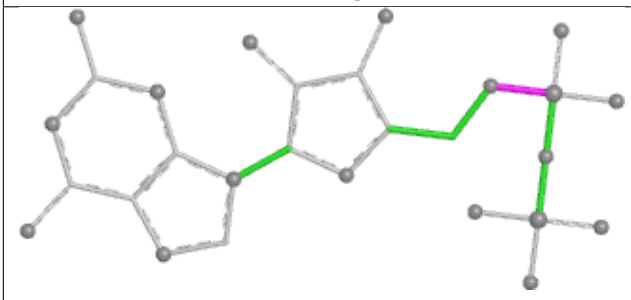

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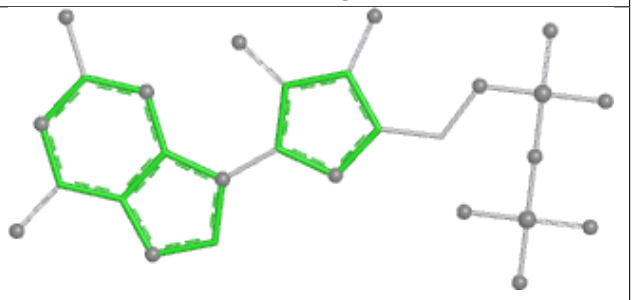

Rings

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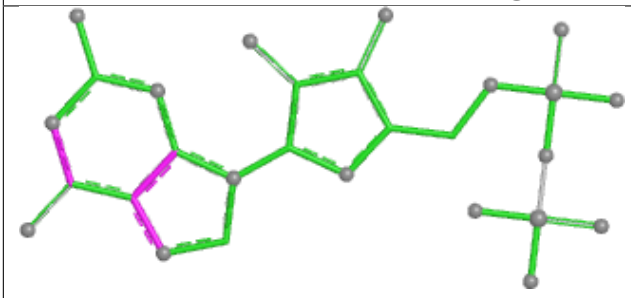

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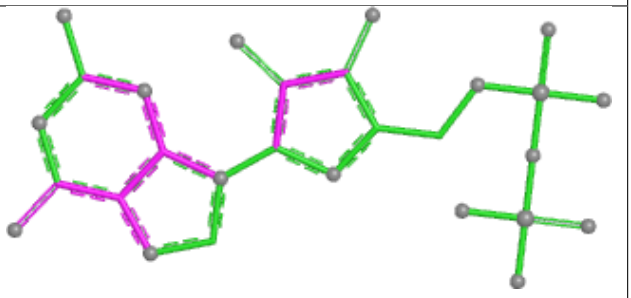

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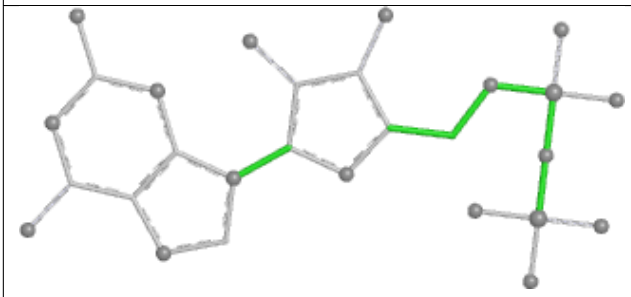

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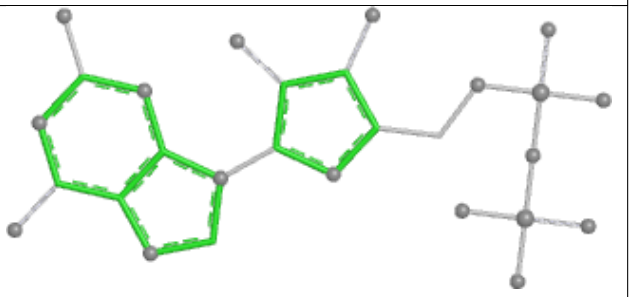

Rings

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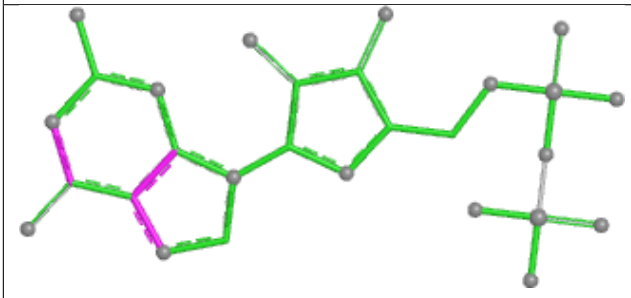

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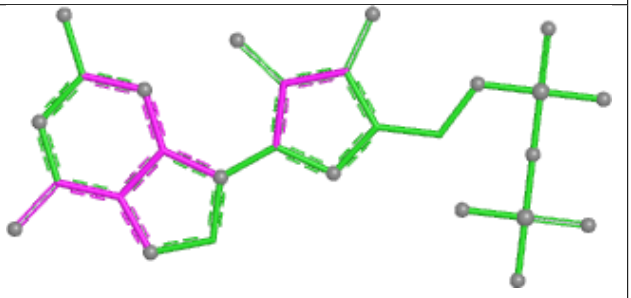

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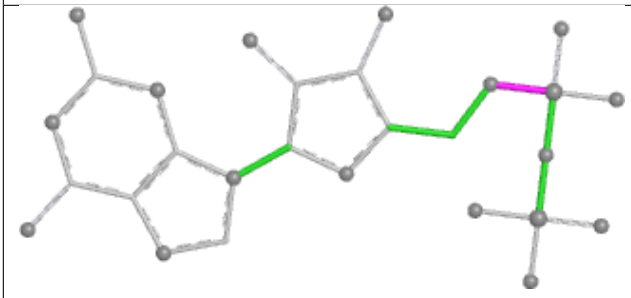

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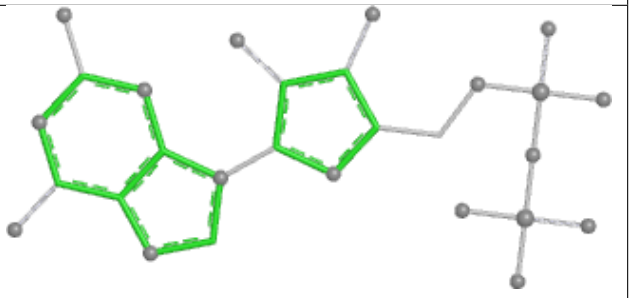
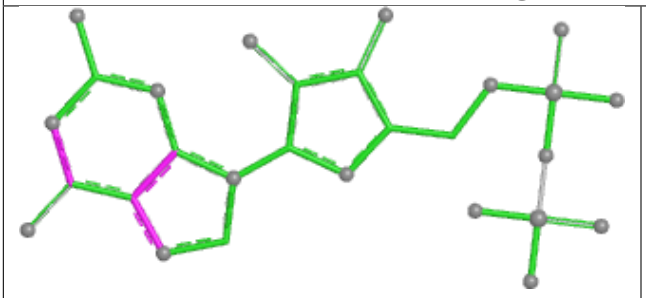


Rings

Ligand GDP EJ 502



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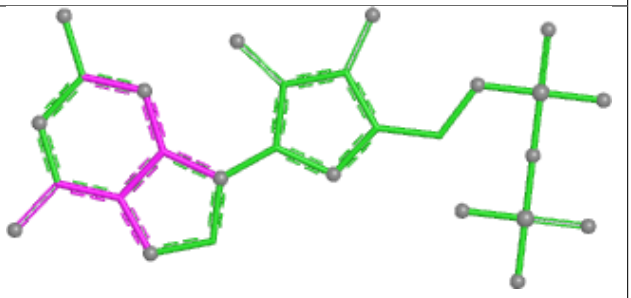

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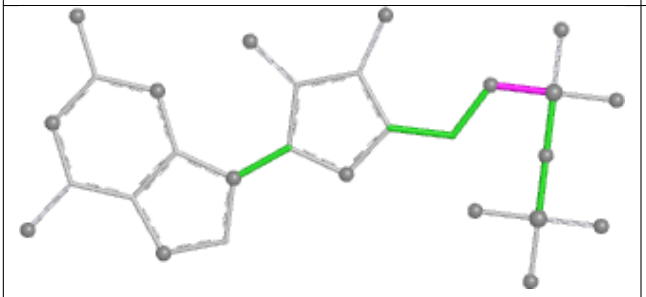

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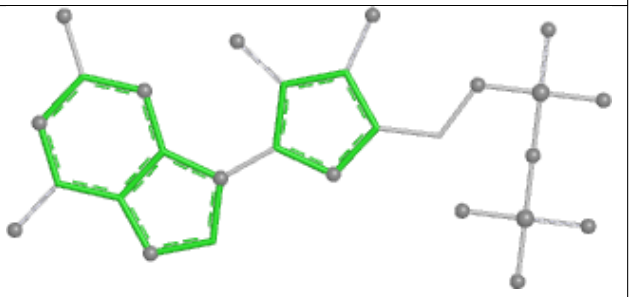

Rings

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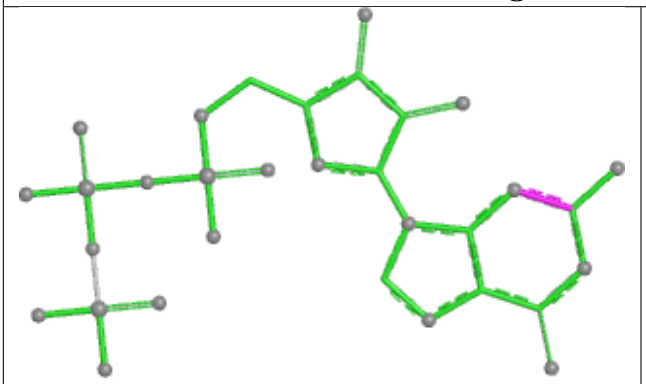

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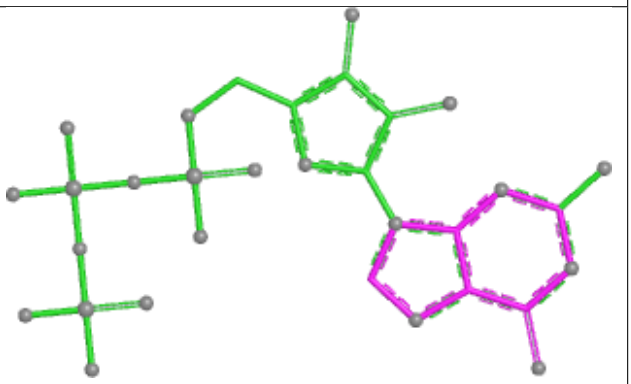

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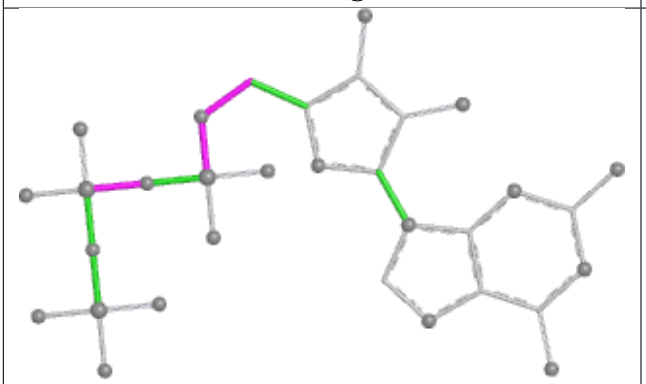

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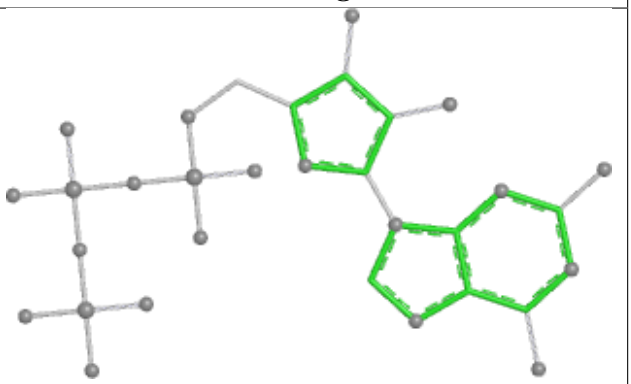

Rings

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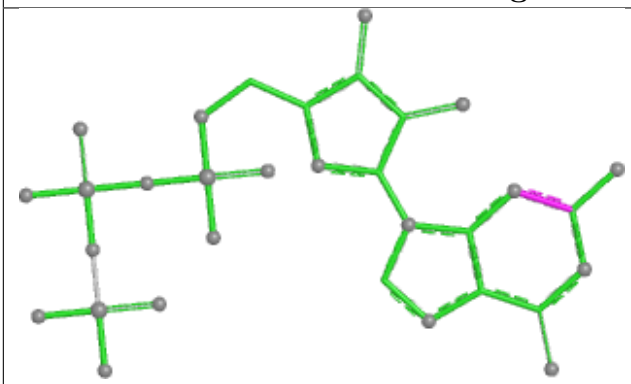

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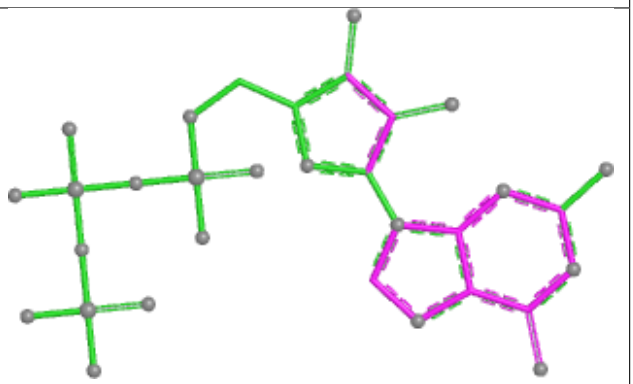

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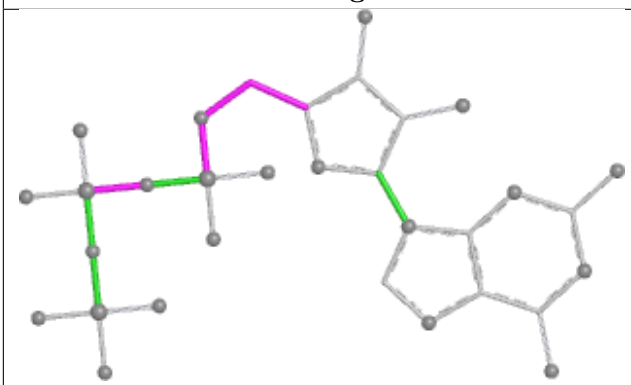

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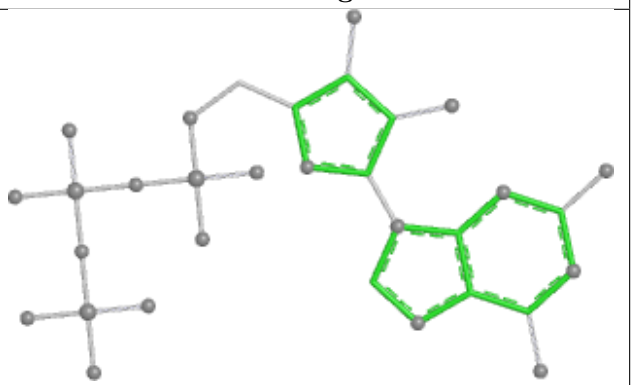

Rings

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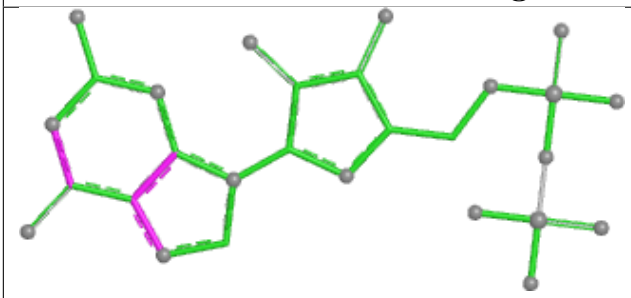

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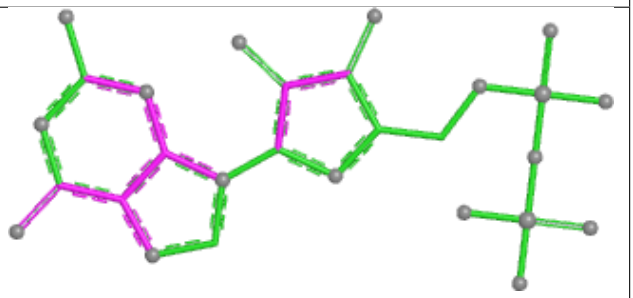

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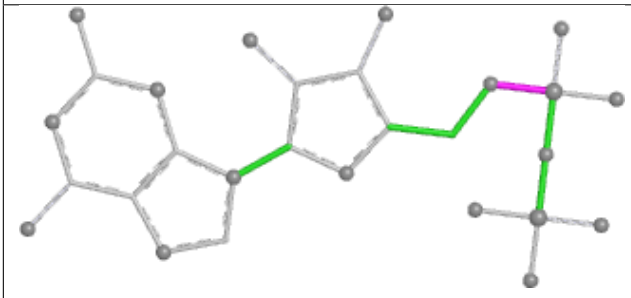

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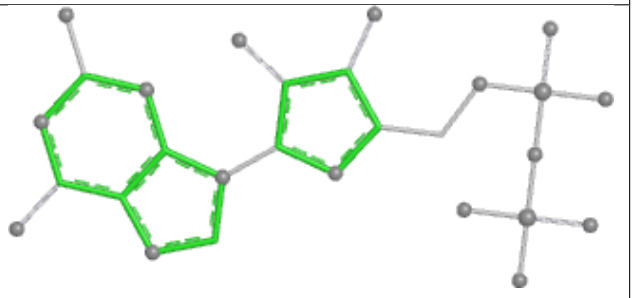

Rings

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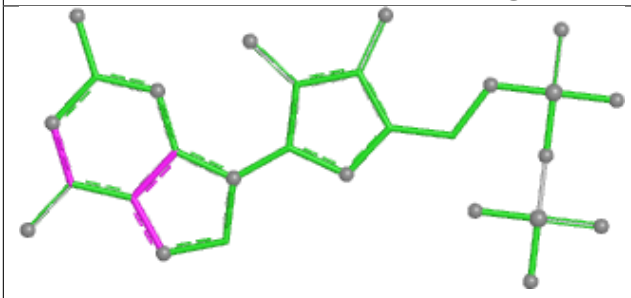

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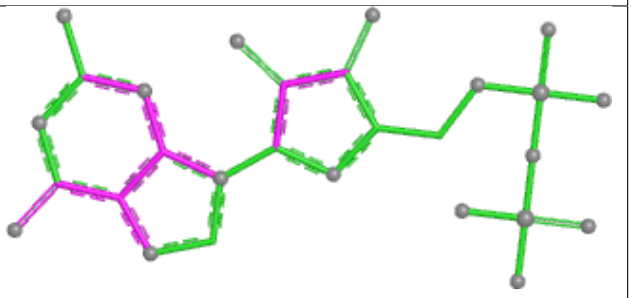

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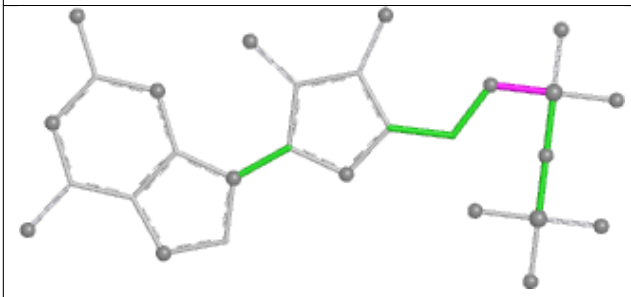

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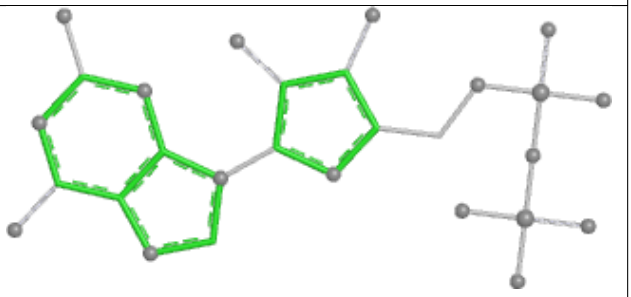

Rings

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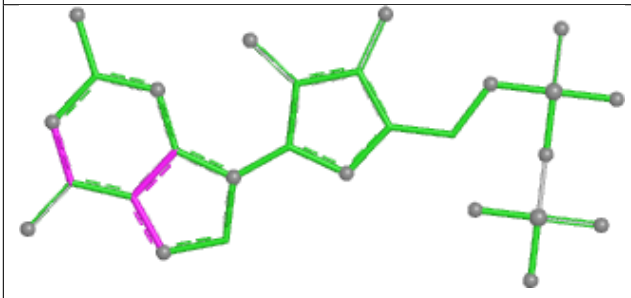

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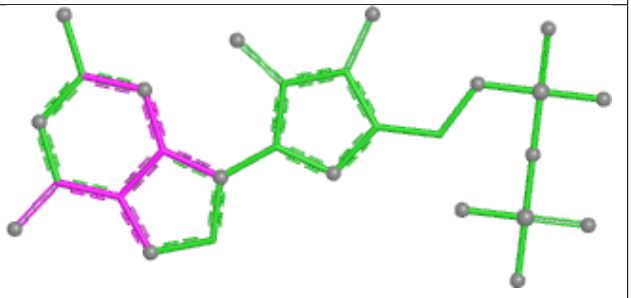

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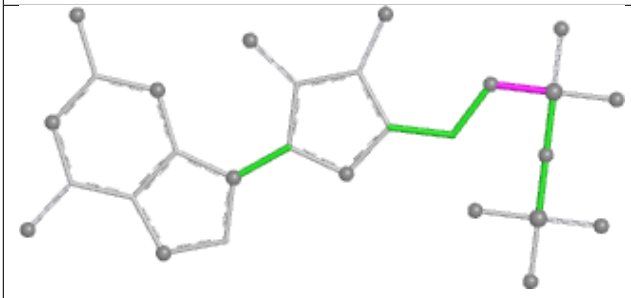

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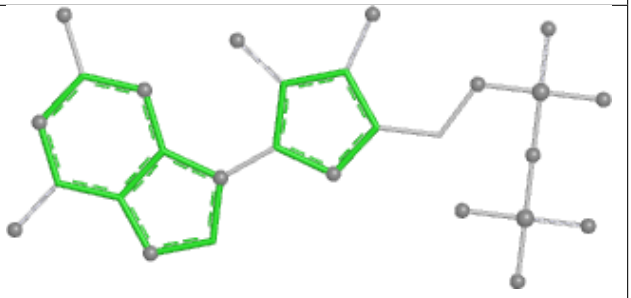
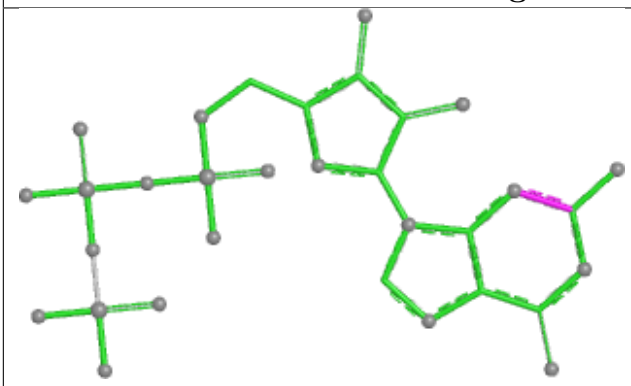


Rings

Ligand GTP VO 501



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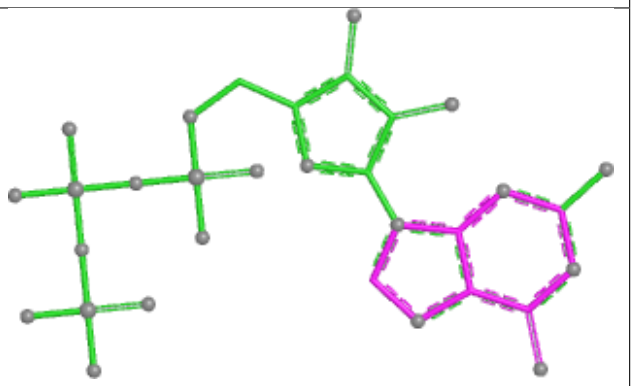

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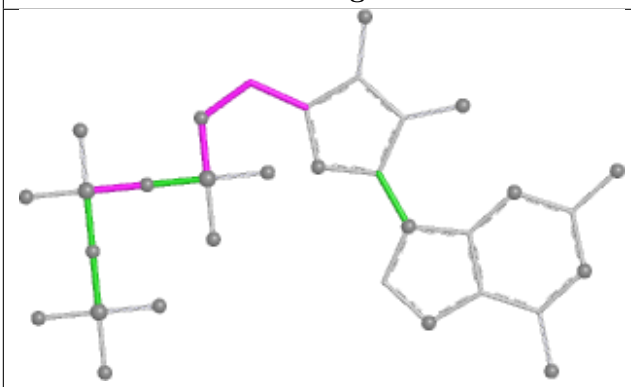

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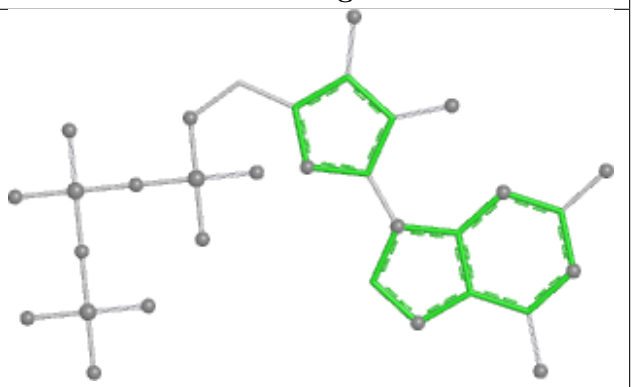
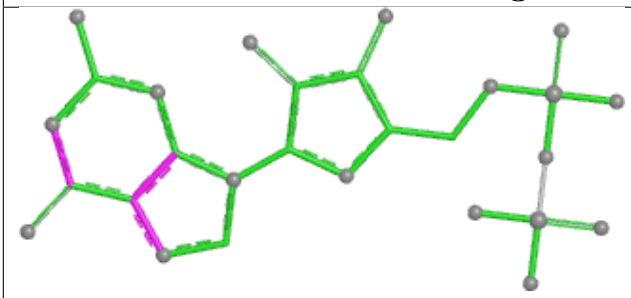


Rings

Ligand GDP RF 502



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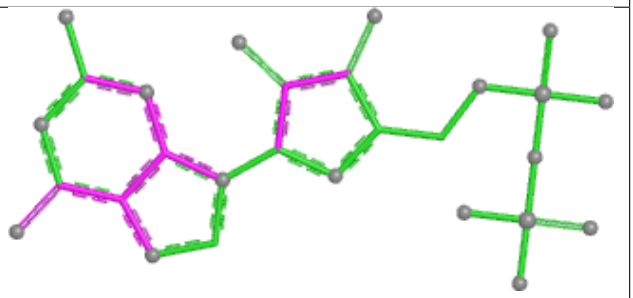

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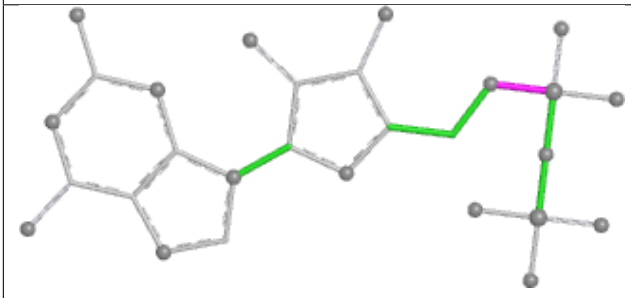

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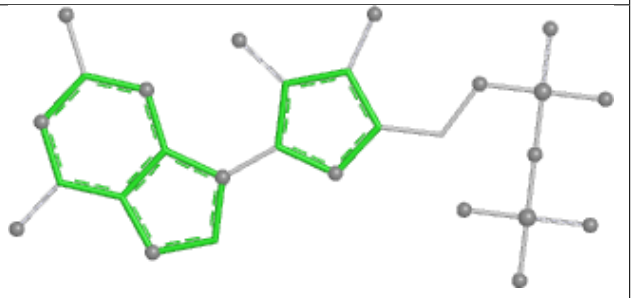
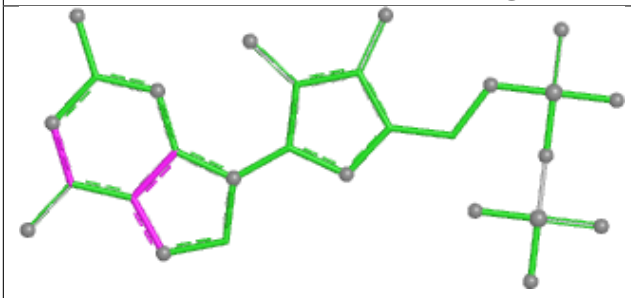


Rings

Ligand GDP WB 502



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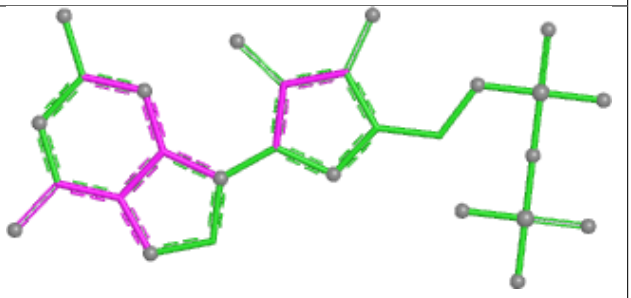

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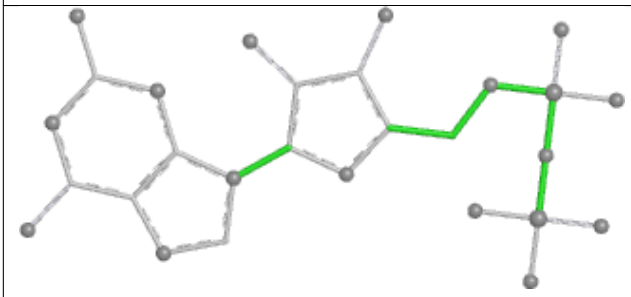
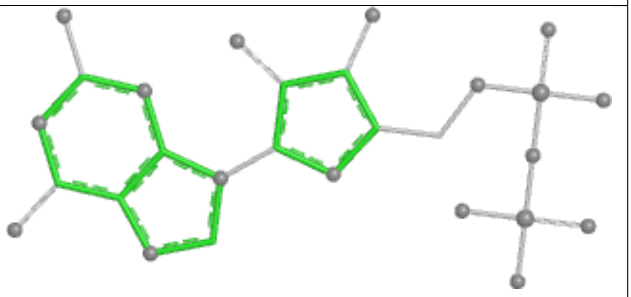
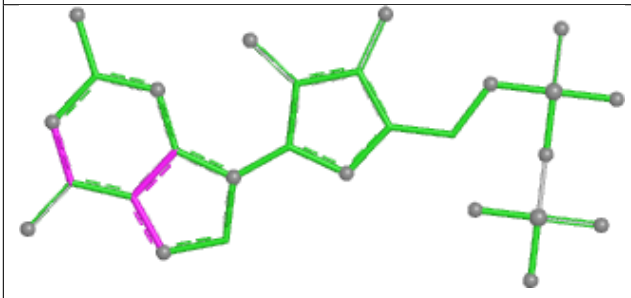


Torsions



Rings

Ligand GDP TB 502



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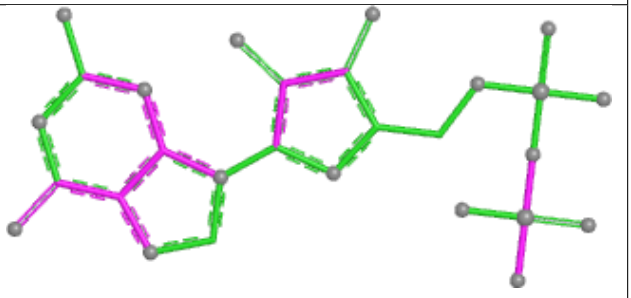

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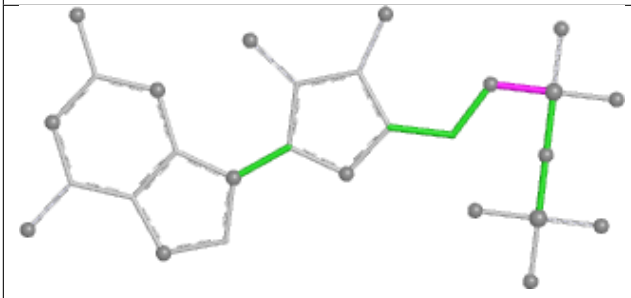

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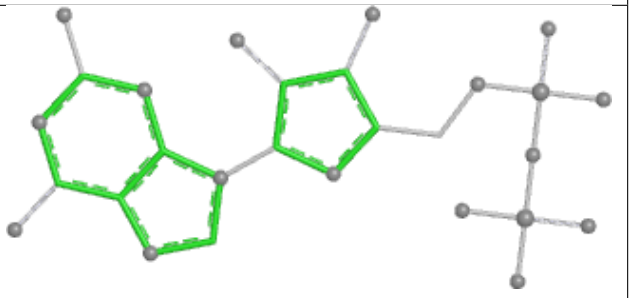
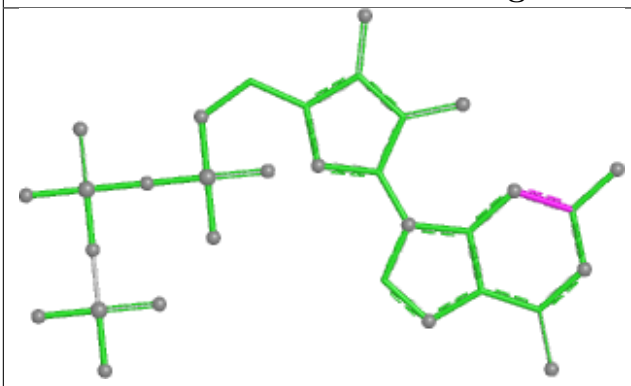


Rings

Ligand GTP GO 501



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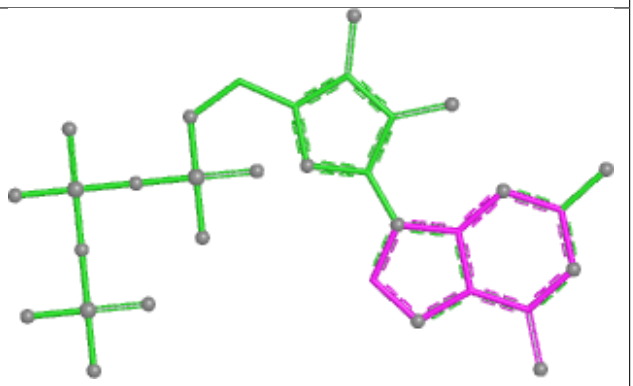

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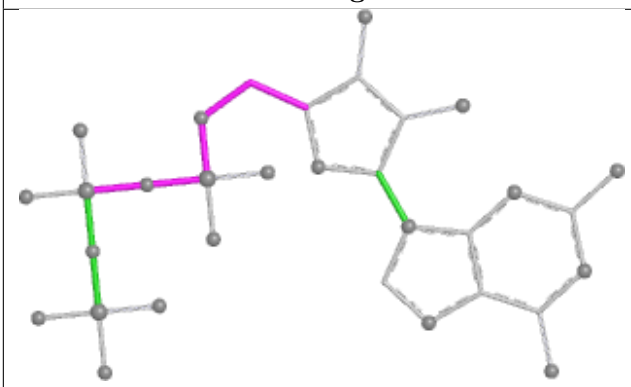

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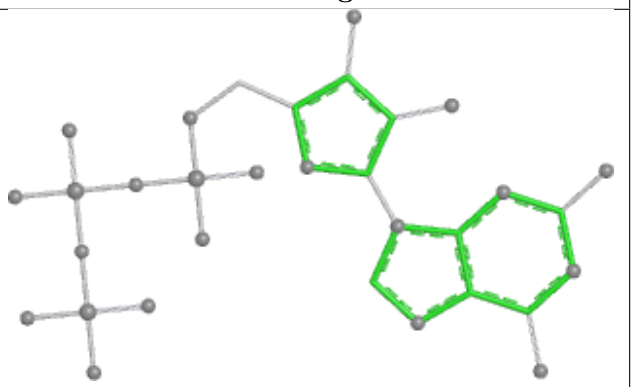
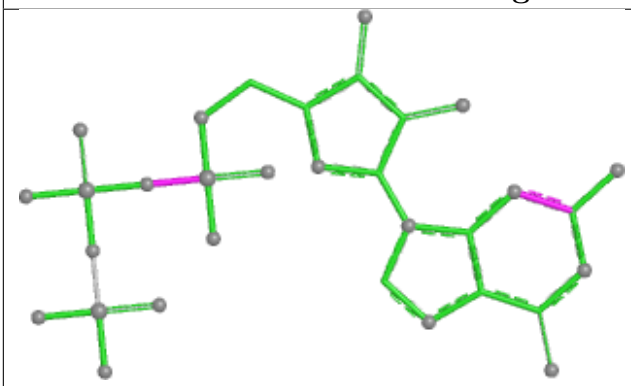


Rings

Ligand GTP JG 501



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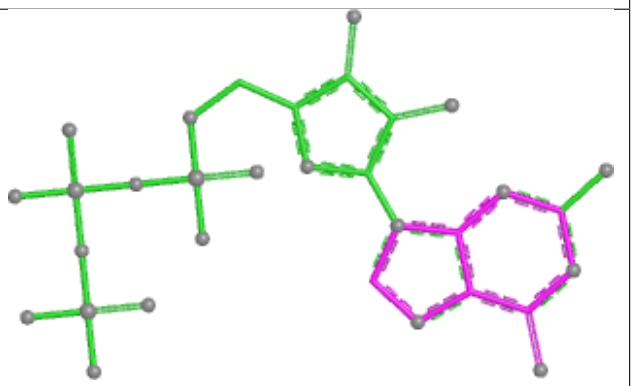

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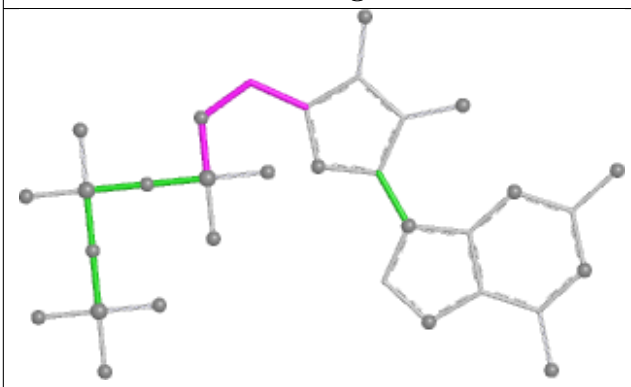

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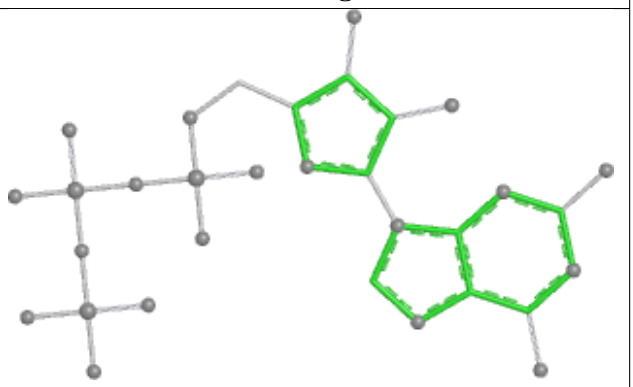
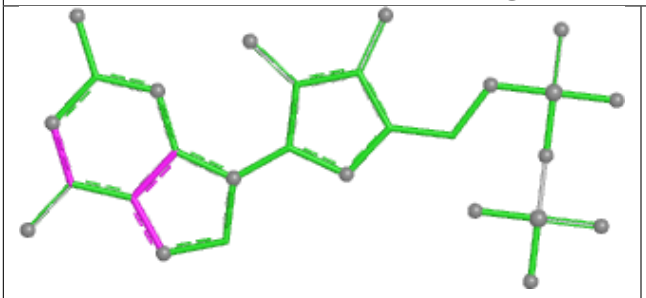


Rings

Ligand GDP MH 502



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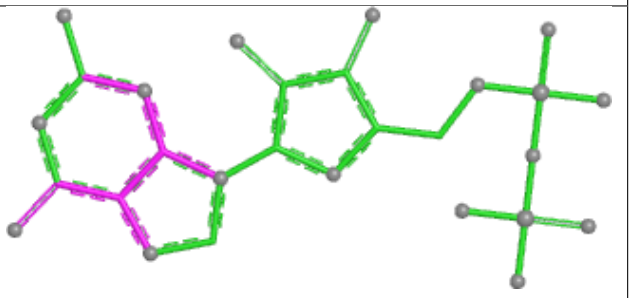

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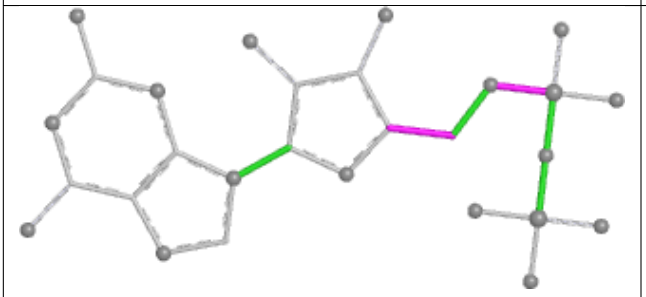

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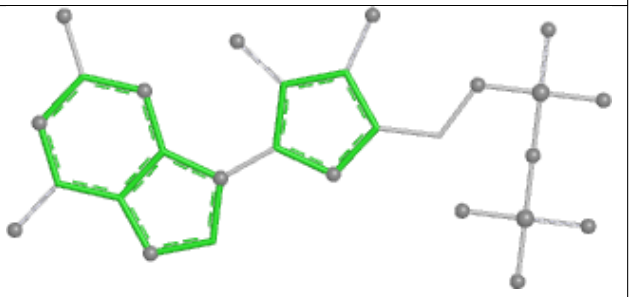
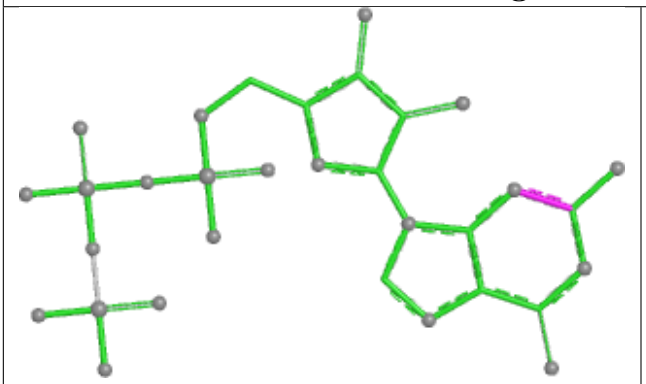


Rings

Ligand GTP VE 501



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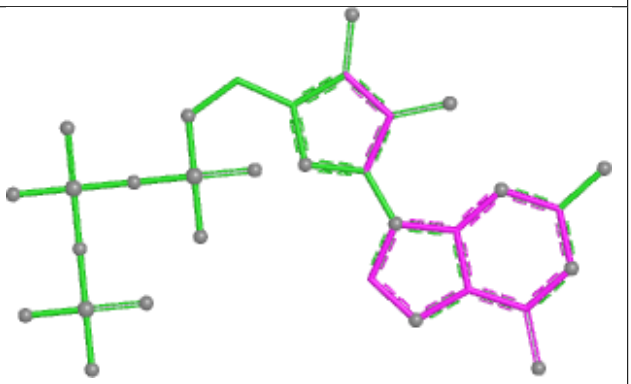

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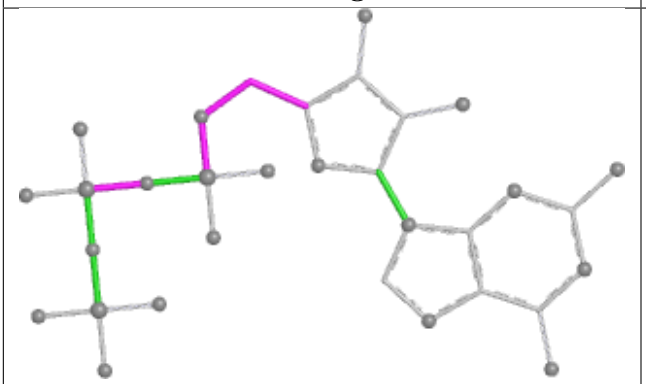

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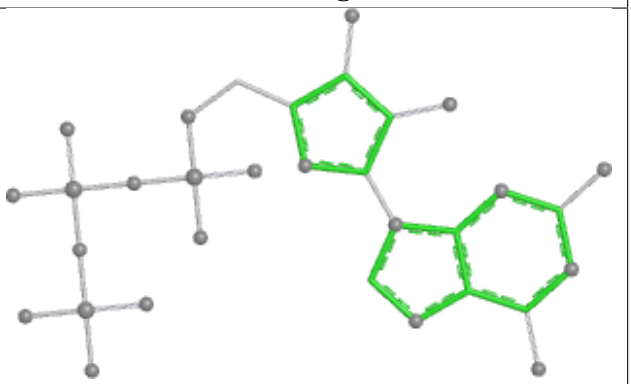
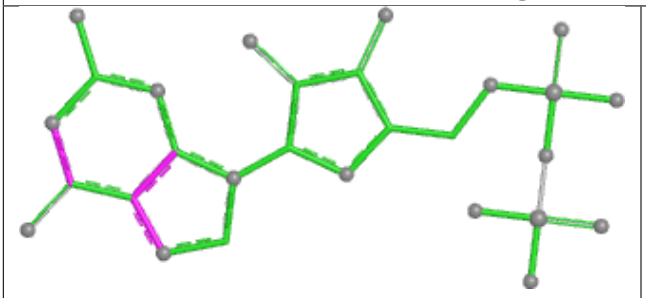


Rings

Ligand GDP SL 502



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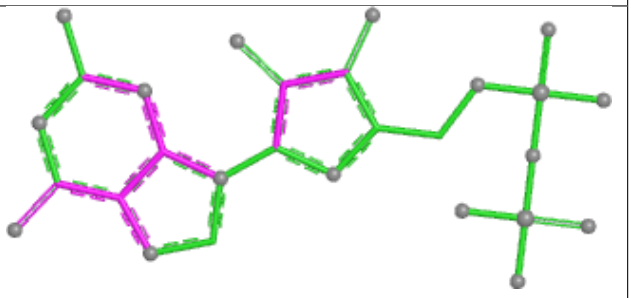

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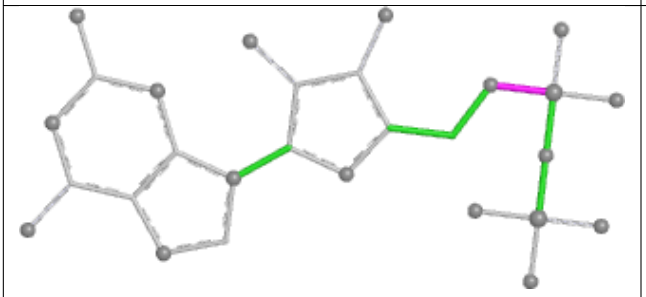

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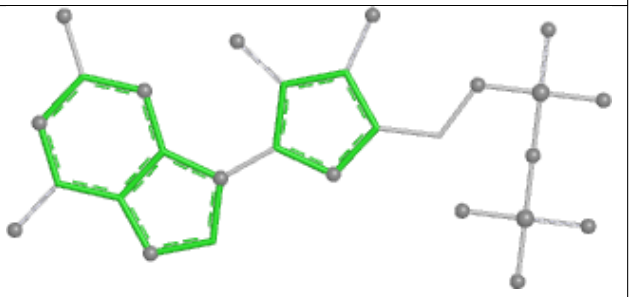
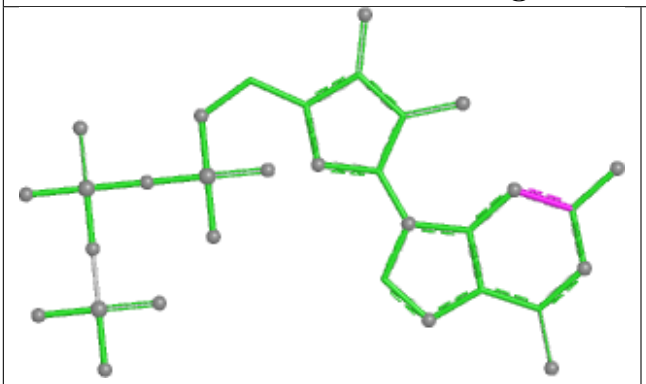


Rings

Ligand GTP QE 501



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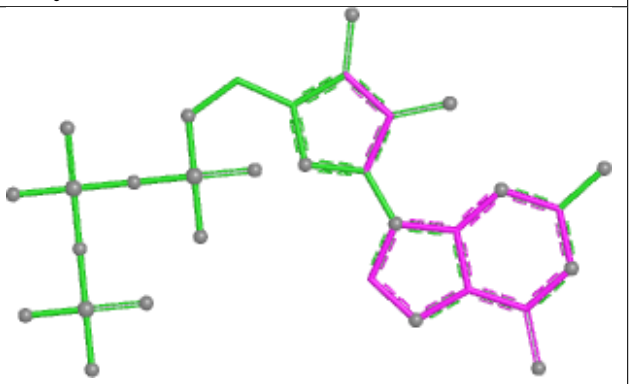

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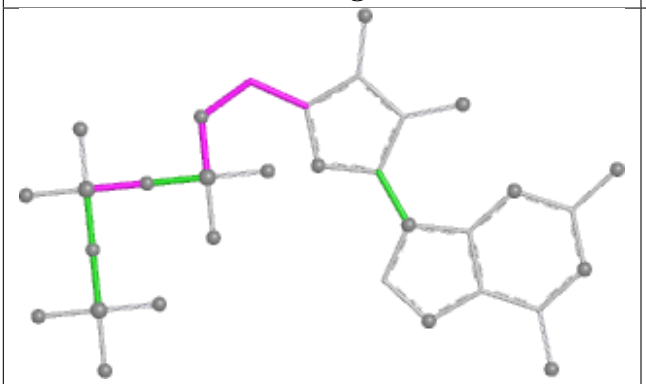

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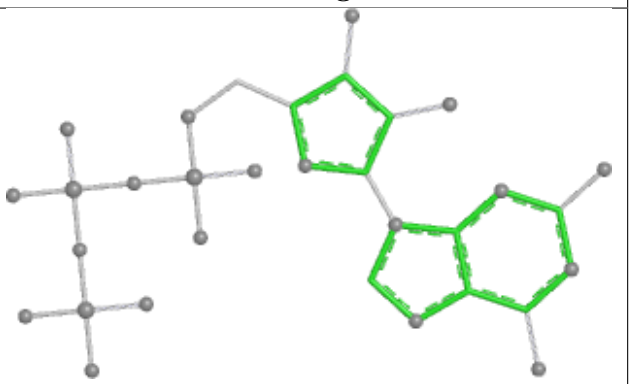
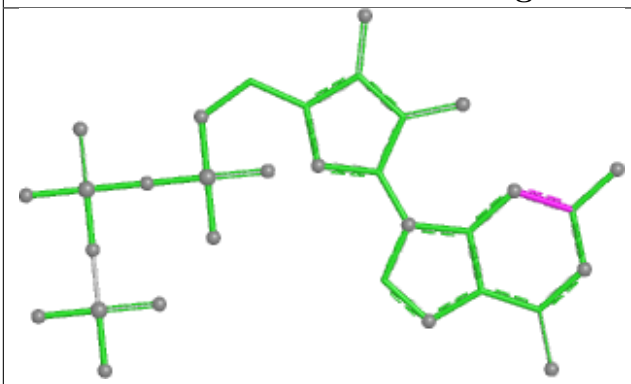


Rings

Ligand GTP IA 501



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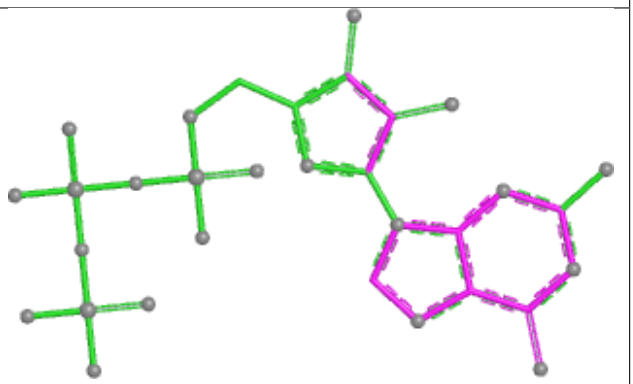

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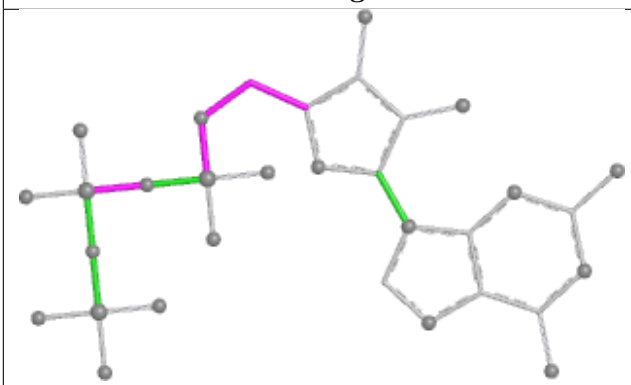

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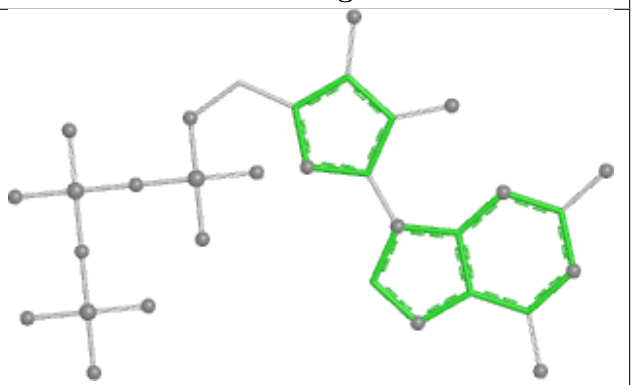
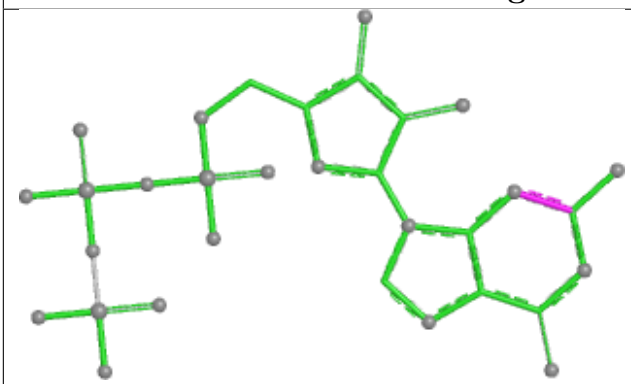


Rings

Ligand GTP NA 501



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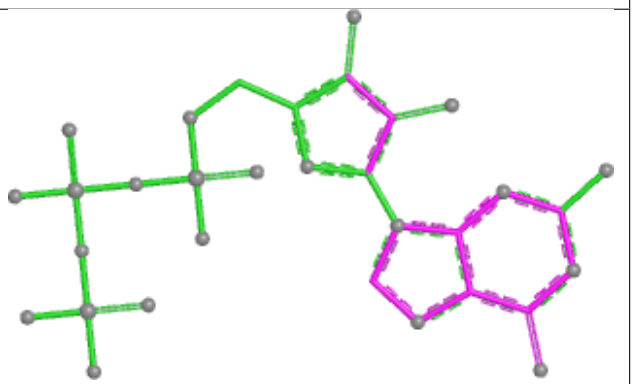

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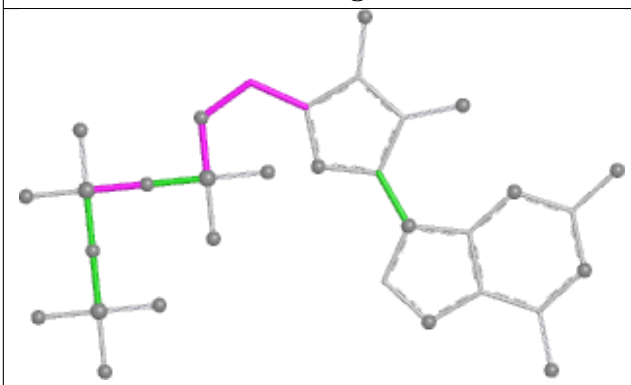

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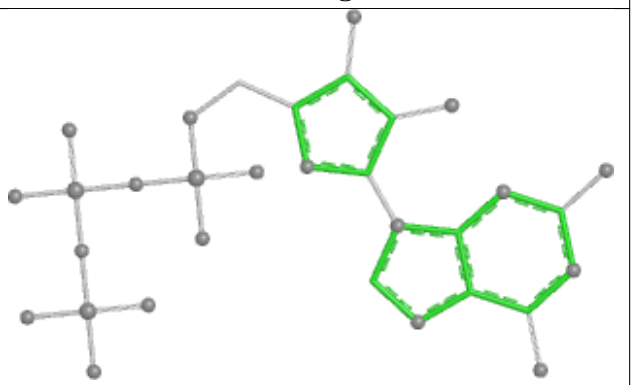
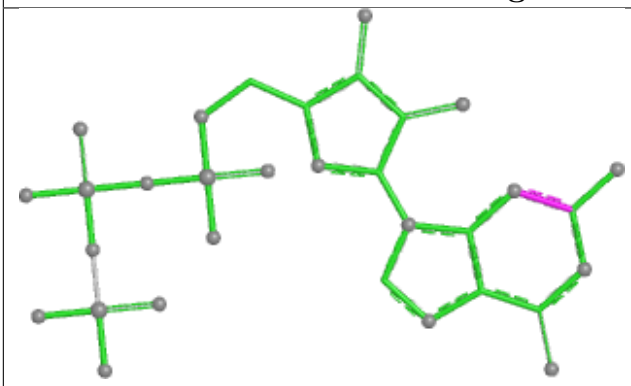


Rings

Ligand GTP VK 501



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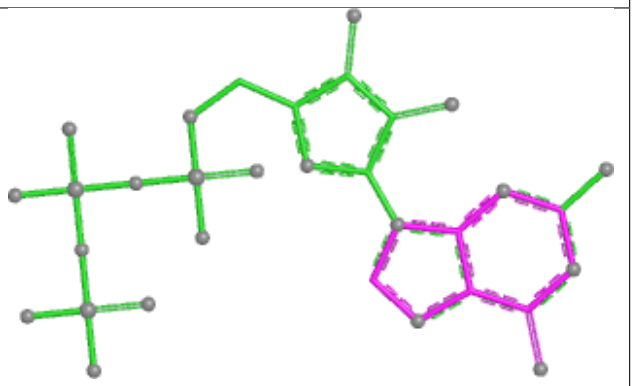

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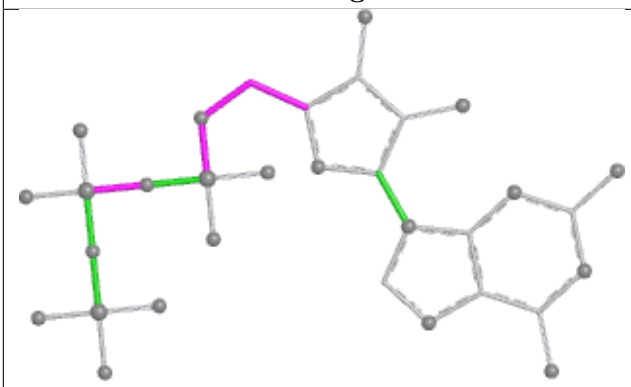

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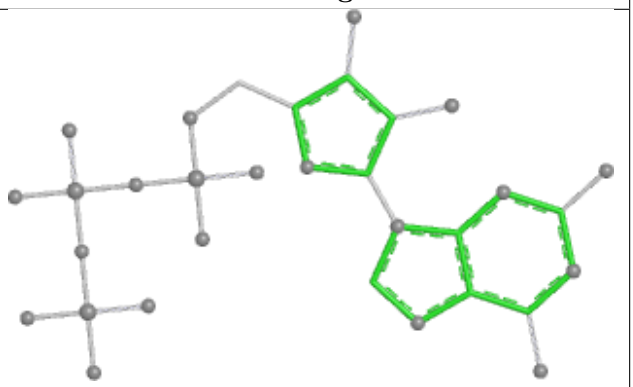
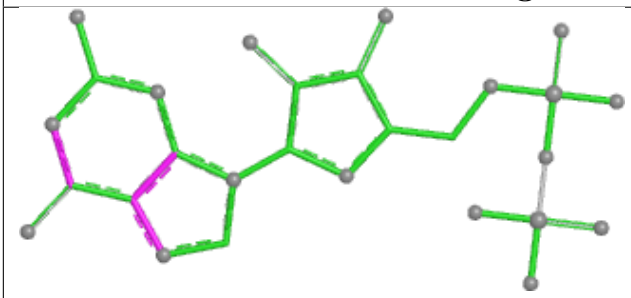


Rings

Ligand GDP IF 502



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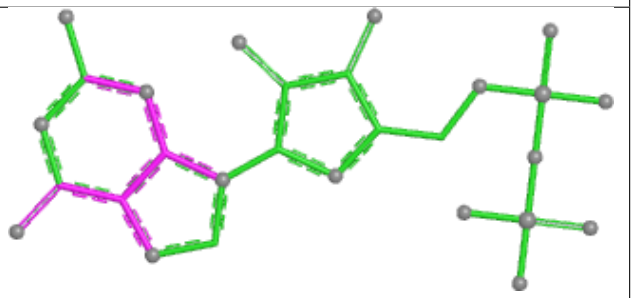

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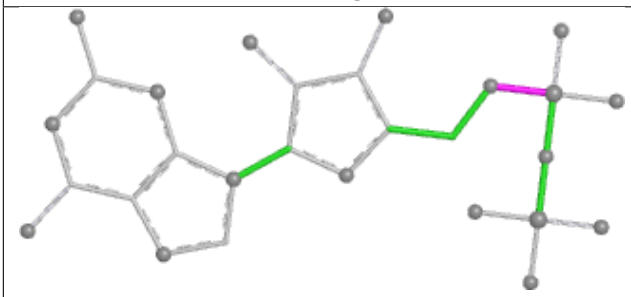

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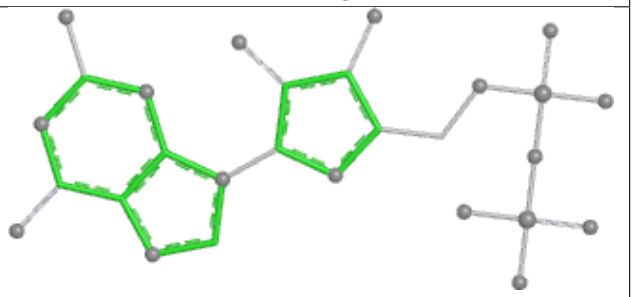
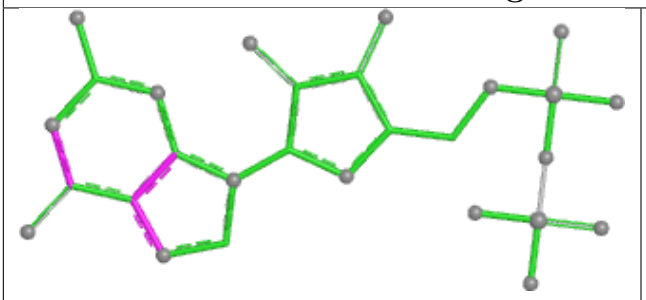


Rings

Ligand GDP HN 502



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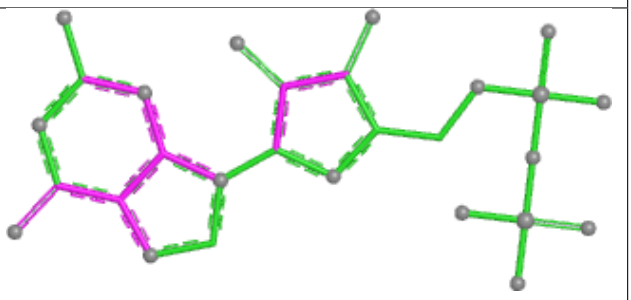
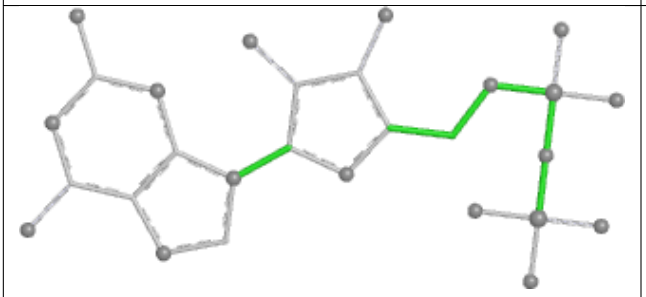
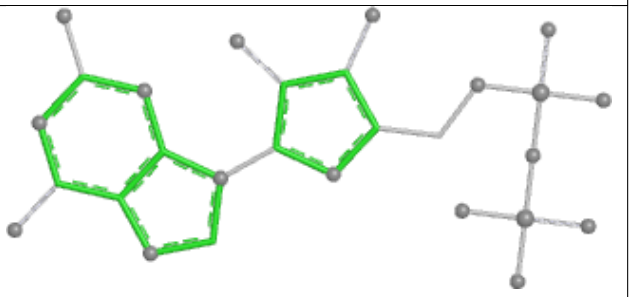


Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

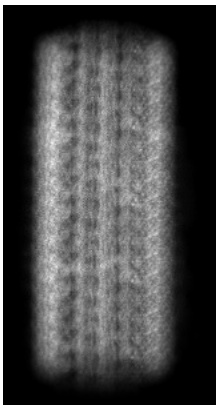
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-35823. These allow visual inspection of the internal detail of the map and identification of artifacts.

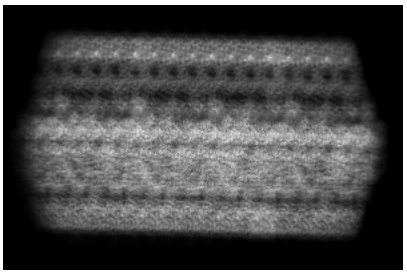
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

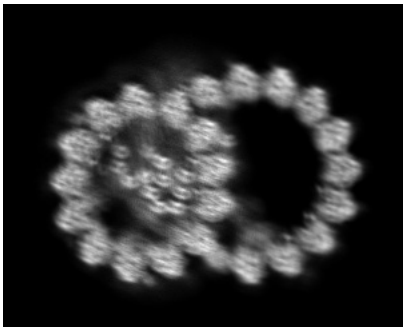
6.1.1 Primary map



X



Y

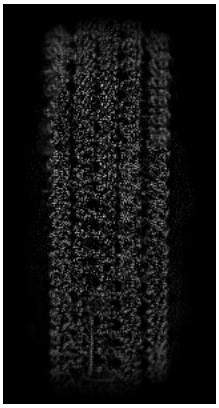


Z

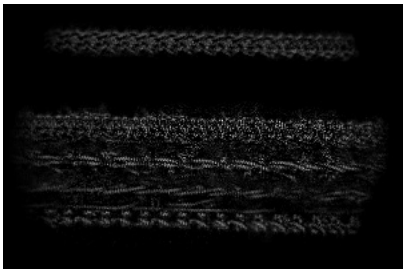
The images above show the map projected in three orthogonal directions.

6.2 Central slices

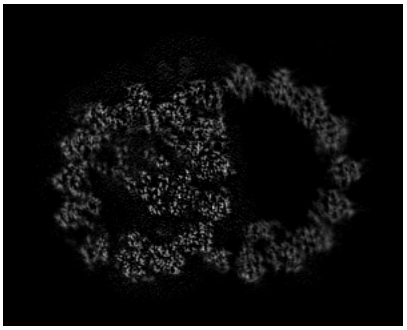
6.2.1 Primary map



X Index: 265



Y Index: 213

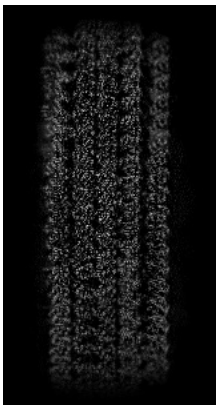


Z Index: 400

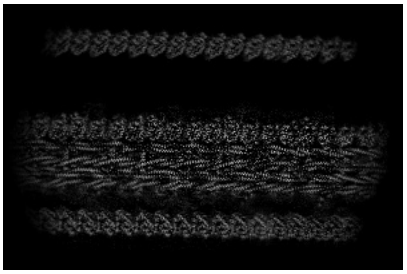
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

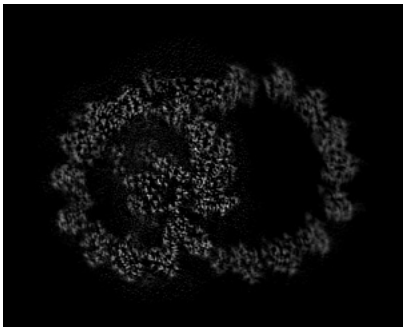
6.3.1 Primary map



X Index: 270



Y Index: 196

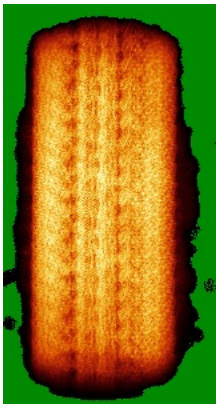


Z Index: 448

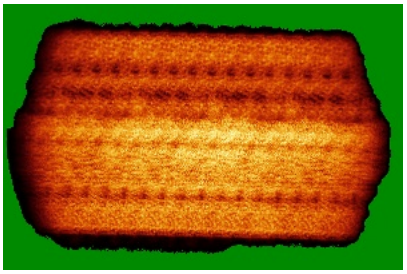
The images above show the largest variance slices of the map in three orthogonal directions.

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

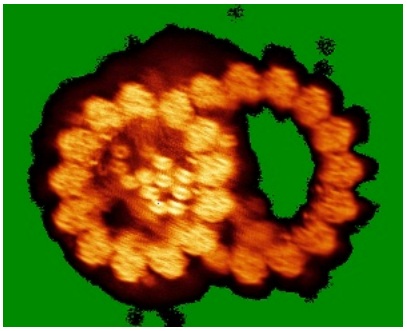
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

This section was not generated.

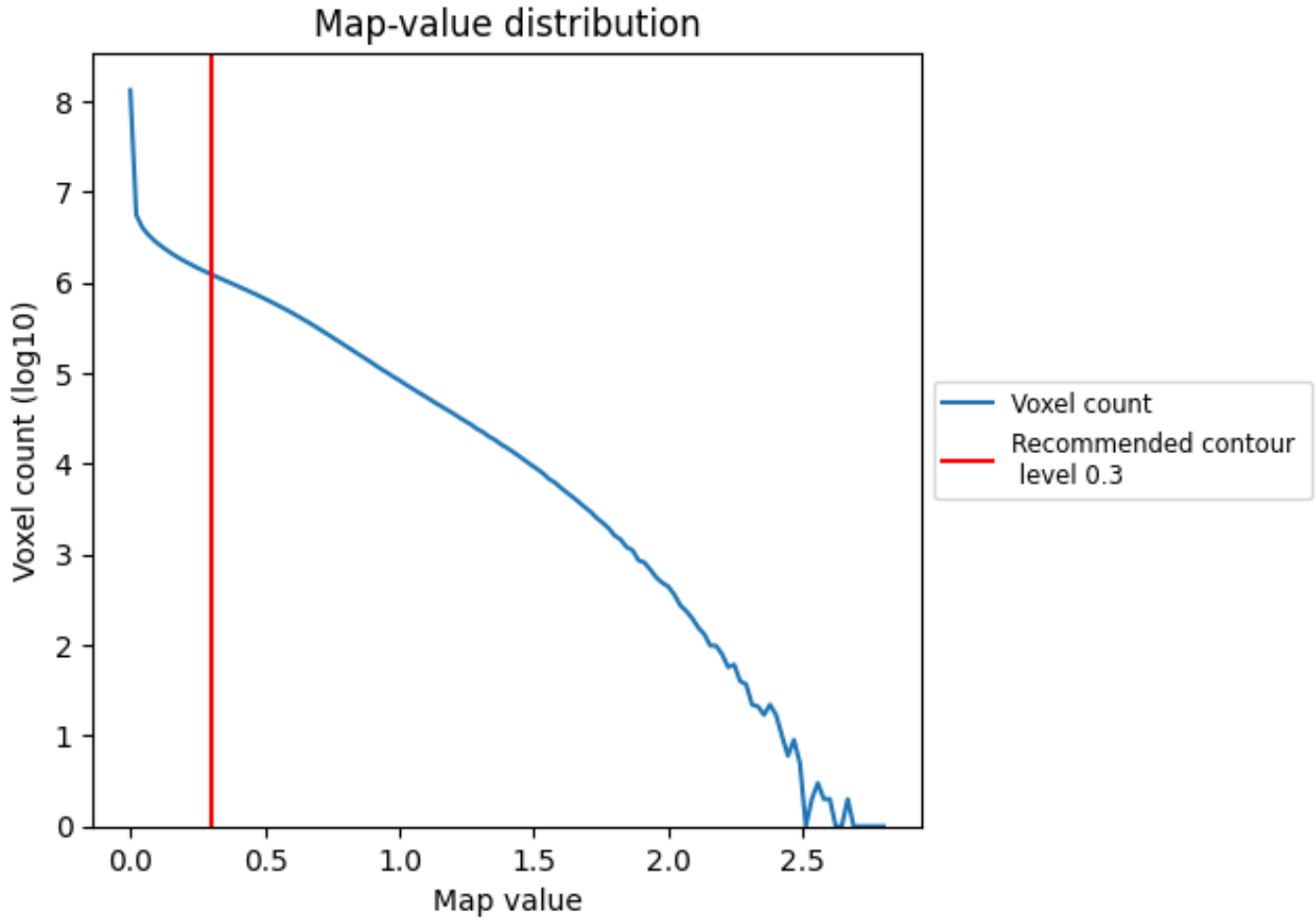
6.6 Mask visualisation (i)

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

7 Map analysis

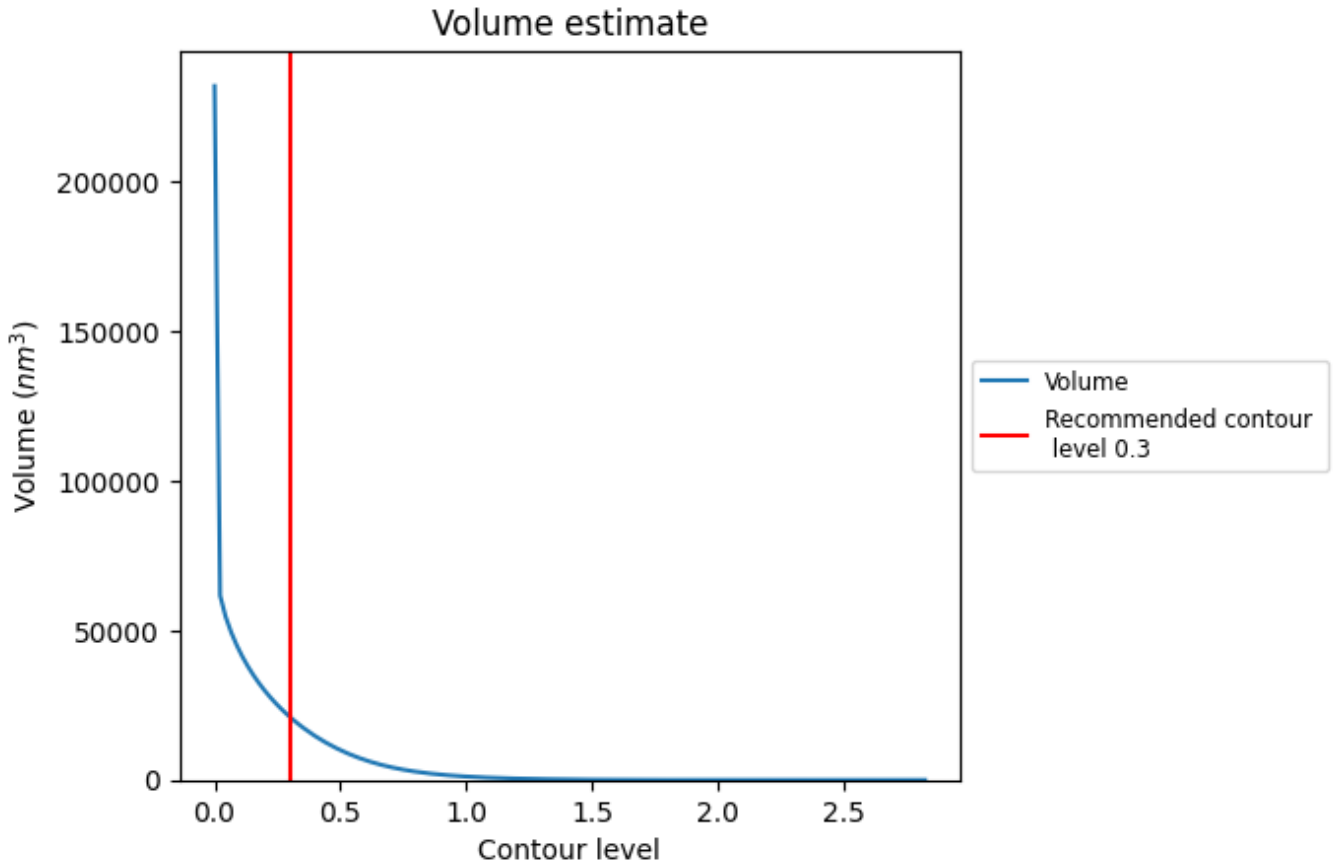
This section contains the results of statistical analysis of the map.

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 21016 nm^3; this corresponds to an approximate mass of 18985 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

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

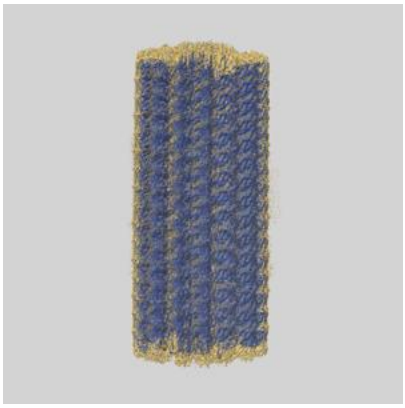
8 Fourier-Shell correlation

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

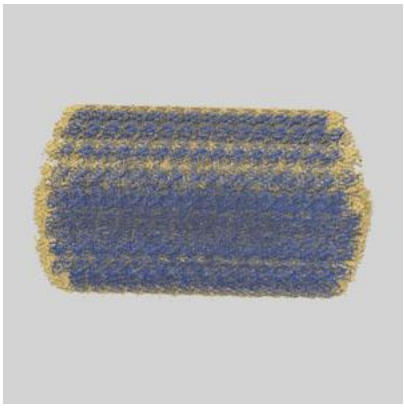
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-35823 and PDB model 8IYJ. Per-residue inclusion information can be found in section 3 on page 85.

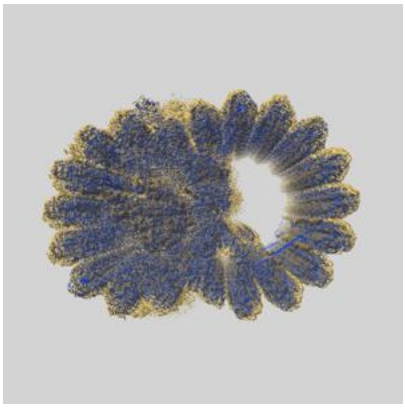
9.1 Map-model overlay



X



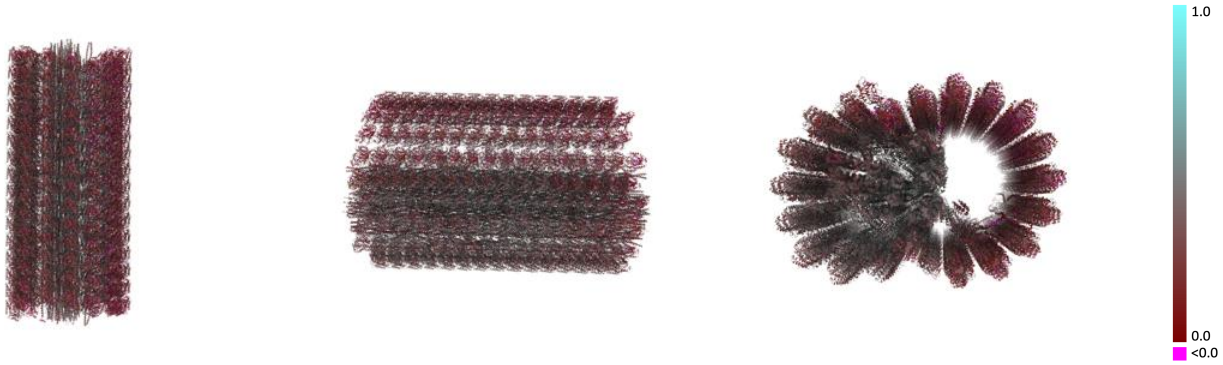
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.3 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model (i)



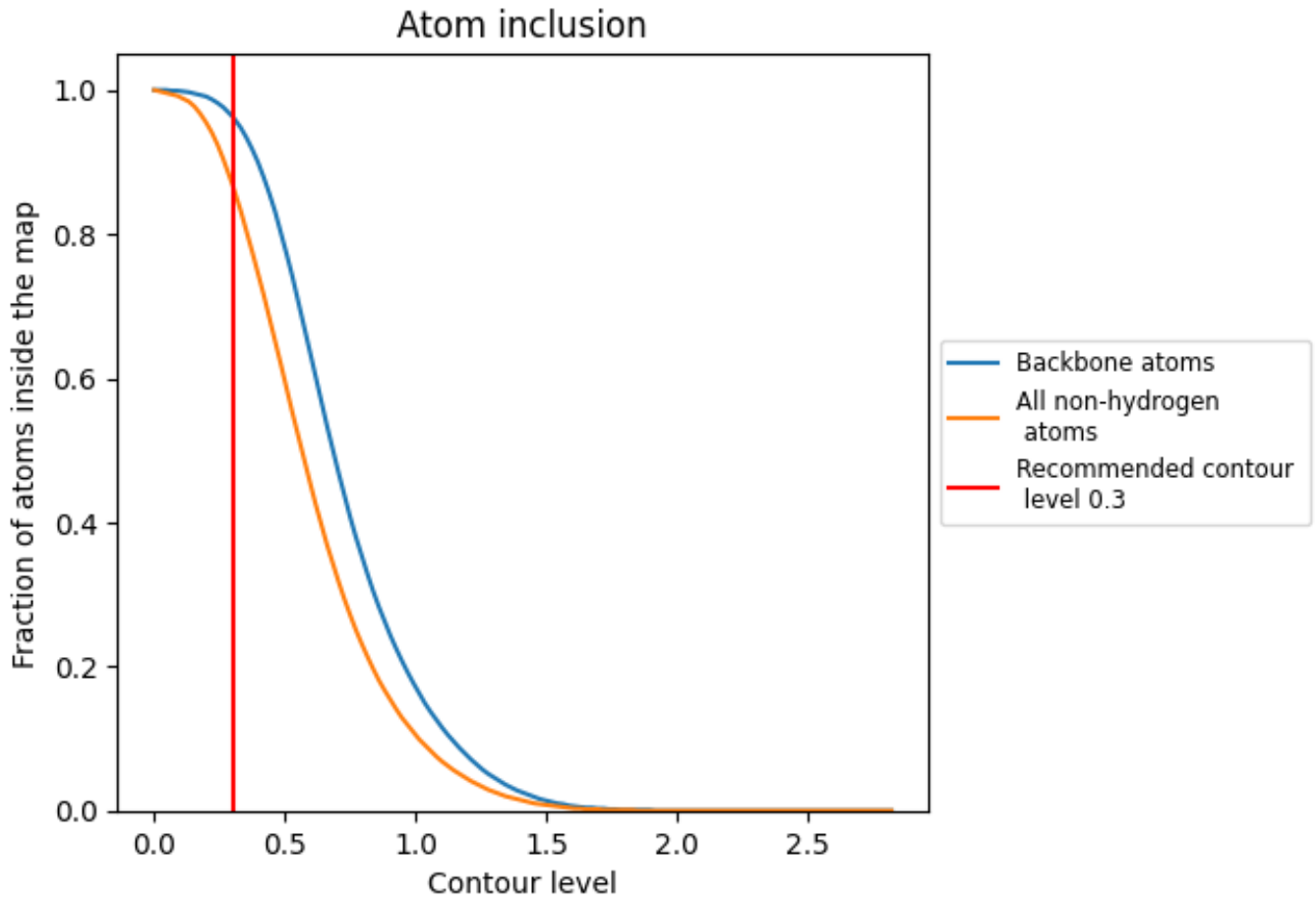
X Y Z

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

9.3 Atom inclusion mapped to coordinate model (i)

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 96% of all backbone atoms, 87% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8680	0.3500
0	0.7450	0.3730
1	0.8190	0.3730
2	0.8610	0.4040
3	0.7760	0.3250
4	0.7930	0.3380
5	0.8770	0.3650
6	0.8500	0.3880
7	0.8190	0.3740
8	0.9100	0.4350
A	0.7950	0.3460
A0	0.8820	0.4010
A1	0.8990	0.4490
A2	0.9230	0.4990
A3	0.9280	0.5010
A4	0.9010	0.4480
A5	0.8410	0.3840
AA	0.8650	0.2940
AB	0.9190	0.3730
AC	0.9390	0.4340
AD	0.9280	0.4460
AE	0.9290	0.4640
AF	0.9250	0.4520
AG	0.9500	0.4610
AH	0.9330	0.4700
AI	0.9300	0.4800
AJ	0.9220	0.4670
AK	0.9270	0.4730
AL	0.9370	0.4510
AM	0.9220	0.4350
AN	0.9420	0.3990
AO	0.9110	0.3680
AP	0.8850	0.3590
B	0.7980	0.3430
B0	0.8720	0.3970

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Chain	Atom inclusion	Q-score
B1	0.8860	0.4460
B2	0.9190	0.4950
B3	0.9200	0.4960
B4	0.8860	0.4550
B5	0.7900	0.3900
BB	0.9060	0.3690
BC	0.9180	0.3980
BD	0.9420	0.4120
BE	0.9140	0.4070
BF	0.9410	0.4480
BG	0.9530	0.4550
BH	0.9520	0.4650
BI	0.9580	0.4700
BJ	0.9440	0.4530
BK	0.9540	0.4640
BL	0.9250	0.4330
BM	0.9190	0.4170
BN	0.9380	0.3890
BO	0.8930	0.3780
BP	0.8510	0.3330
C	0.8290	0.3600
C0	0.8950	0.4070
C1	0.9270	0.4750
C2	0.9450	0.5030
C3	0.9300	0.4910
C4	0.8790	0.4090
C5	0.8230	0.3570
C6	0.6400	0.3920
CB	0.8430	0.3530
CC	0.8710	0.3850
CD	0.9060	0.3980
CE	0.9270	0.3920
CF	0.9470	0.4340
CG	0.9510	0.4460
CH	0.9550	0.4760
CI	0.9490	0.4640
CJ	0.9520	0.4680
CK	0.9480	0.4730
CL	0.9360	0.4330
CM	0.9200	0.4070
CN	0.9170	0.3490
CO	0.8580	0.3660

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Chain	Atom inclusion	Q-score
CP	0.8390	0.3480
CQ	0.7210	0.3190
D	0.7960	0.4060
D0	0.8360	0.4130
D1	0.8890	0.4600
D2	0.9110	0.4910
D3	0.9250	0.4970
D4	0.8580	0.4260
D5	0.8620	0.4030
DB	0.7410	0.3540
DC	0.8540	0.3470
DD	0.8990	0.3840
DE	0.9230	0.4050
DF	0.9730	0.3680
DG	0.9570	0.3880
DH	0.9490	0.4210
DI	0.9320	0.3990
DJ	0.9520	0.4460
DK	0.9470	0.4320
DL	0.9430	0.4110
DM	0.9360	0.3780
DN	0.9080	0.3820
DO	0.8770	0.3710
DP	0.8510	0.3670
DQ	0.7420	0.3270
E	0.9300	0.4530
EA	0.8070	0.3620
EB	0.8810	0.3930
EC	0.8840	0.4030
ED	0.9430	0.3720
EE	0.9300	0.3360
EF	0.9240	0.3970
EG	0.9340	0.4070
EH	0.9360	0.4180
EI	0.9290	0.4120
EJ	0.9370	0.4070
EK	0.9320	0.3920
EL	0.8850	0.3760
EM	0.8300	0.3300
EN	0.8540	0.3670
EO	0.7560	0.3380
F	0.6990	0.3720

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Chain	Atom inclusion	Q-score
FA	0.8130	0.3330
FB	0.8760	0.3630
FC	0.9030	0.3740
FD	0.9410	0.3690
FE	0.9640	0.3360
FF	0.9340	0.3820
FG	0.9060	0.3640
FH	0.9120	0.3890
FI	0.9100	0.3910
FJ	0.9110	0.3900
FK	0.9180	0.3920
FL	0.9250	0.3760
FM	0.8840	0.3570
FN	0.8930	0.3560
FO	0.8540	0.3220
G	0.7720	0.3440
GA	0.7870	0.3120
GB	0.8800	0.3270
GC	0.8600	0.3130
GD	0.8880	0.3340
GE	0.9080	0.3400
GF	0.9190	0.3590
GG	0.9200	0.3500
GH	0.9210	0.3660
GI	0.9000	0.3640
GJ	0.9360	0.3790
GK	0.9310	0.3780
GL	0.9270	0.3870
GM	0.9090	0.3910
GN	0.9080	0.3980
GO	0.8720	0.3720
H	0.8750	0.4220
HA	0.7880	0.2800
HB	0.8590	0.3120
HC	0.8520	0.3050
HD	0.8810	0.3330
HE	0.8950	0.3530
HF	0.9350	0.3900
HG	0.9200	0.4050
HH	0.9480	0.4210
HI	0.9340	0.4020
HJ	0.9090	0.3320

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Chain	Atom inclusion	Q-score
HK	0.9160	0.3590
HL	0.9090	0.3550
HM	0.8930	0.3700
HN	0.9100	0.3950
HO	0.8800	0.3640
HP	0.8350	0.3240
I	0.9050	0.4550
I1	0.8500	0.3640
IA	0.8200	0.2520
IB	0.8380	0.2660
IC	0.8470	0.3060
ID	0.8650	0.3260
IE	0.9100	0.3640
IF	0.9220	0.3980
IG	0.9010	0.3990
IH	0.9140	0.4050
II	0.9190	0.4110
IJ	0.9420	0.3800
IK	0.9110	0.3600
IL	0.9140	0.3590
IM	0.8890	0.3740
IN	0.8950	0.3970
IO	0.8930	0.3800
IP	0.8520	0.3420
J	0.9580	0.4510
J1	0.8120	0.3530
J2	0.7990	0.3460
J3	0.8590	0.3460
J4	0.8080	0.3100
J5	0.6680	0.2790
JB	0.8110	0.2140
JC	0.8560	0.2420
JD	0.8700	0.2980
JE	0.8660	0.3150
JF	0.9030	0.3500
JG	0.9050	0.3770
JH	0.9150	0.4000
JI	0.9140	0.3950
JJ	0.9220	0.4140
JK	0.9310	0.4010
JL	0.9040	0.3780
JM	0.8920	0.3820

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Chain	Atom inclusion	Q-score
JN	0.8860	0.3780
JO	0.8880	0.3950
JP	0.8710	0.3890
JQ	0.8460	0.3210
K	0.9290	0.4750
K1	0.3040	0.2490
K2	0.1240	0.1370
K3	0.7560	0.3790
KA	0.8940	0.3650
KB	0.8960	0.4290
KC	0.9030	0.4370
KD	0.9150	0.4460
KE	0.9210	0.4410
KF	0.9410	0.4520
KG	0.9510	0.4420
KH	0.9490	0.4410
KI	0.9080	0.4350
KJ	0.9020	0.4320
KK	0.9360	0.4160
KL	0.9320	0.4090
KM	0.8980	0.3950
KN	0.8820	0.3740
KO	0.8700	0.3620
KP	0.7800	0.3260
L	0.9540	0.4910
L1	0.3750	0.2720
LA	0.9200	0.4160
LB	0.9230	0.4720
LC	0.9320	0.4940
LD	0.9330	0.4980
LE	0.9270	0.4890
LF	0.9340	0.4820
LG	0.9460	0.4830
LH	0.9350	0.4990
LI	0.9270	0.4890
LJ	0.9330	0.4930
LK	0.9250	0.4710
LL	0.9440	0.4410
LM	0.9150	0.4160
LN	0.8880	0.4080
LO	0.8720	0.3930
LP	0.8770	0.3690

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Chain	Atom inclusion	Q-score
M	0.9390	0.4690
M1	0.8740	0.4260
M2	0.9280	0.4820
M3	0.8930	0.4850
M4	0.9420	0.4580
MA	0.9250	0.3880
MB	0.9250	0.4490
MC	0.9190	0.4800
MD	0.9270	0.4940
ME	0.9160	0.4910
MF	0.9310	0.4910
MG	0.9410	0.4970
MH	0.9430	0.5050
MI	0.9290	0.4960
MJ	0.9340	0.4990
MK	0.9110	0.4850
ML	0.9270	0.4700
MM	0.9220	0.4380
MN	0.9100	0.4100
MO	0.8830	0.3890
MP	0.8770	0.3620
N	0.8580	0.4250
N1	0.7580	0.3370
N2	0.8480	0.4170
NA	0.8040	0.2160
NB	0.8590	0.2490
NC	0.8320	0.2390
ND	0.8590	0.2560
NE	0.8990	0.2590
NF	0.8930	0.3440
NG	0.8770	0.3570
NH	0.8800	0.3590
NI	0.8820	0.3340
NJ	0.8630	0.3150
NK	0.8590	0.3210
NL	0.8630	0.3260
NM	0.8370	0.3240
NN	0.8550	0.2990
NO	0.8520	0.2840
NP	0.8130	0.2410
O	0.8340	0.3660
O1	0.8260	0.4270

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Chain	Atom inclusion	Q-score
O2	0.8570	0.4650
O3	0.8790	0.4850
O4	0.8290	0.4220
O5	0.8840	0.4290
O6	0.8270	0.4090
O7	0.7630	0.3860
O8	0.8410	0.4300
O9	0.8720	0.4380
OA	0.6500	0.1890
OB	0.7760	0.2220
OC	0.7920	0.2310
OD	0.8330	0.2400
OE	0.8370	0.2330
OF	0.8870	0.2420
OG	0.8930	0.2530
OH	0.9030	0.2590
OI	0.8780	0.2460
OJ	0.8710	0.2450
OK	0.8730	0.2460
OL	0.8920	0.2470
OM	0.8590	0.2560
ON	0.8320	0.2420
OO	0.8050	0.2380
OP	0.7350	0.2020
P	0.8590	0.4530
P1	0.7340	0.3020
P2	0.8260	0.3510
P3	0.7070	0.3900
P4	0.8340	0.4410
P5	0.8210	0.4500
P6	0.8680	0.4310
P7	0.6220	0.3510
P8	0.8710	0.4750
P9	0.8010	0.3540
PB	0.8240	0.1820
PC	0.8430	0.1930
PD	0.8690	0.2200
PE	0.8960	0.2040
PF	0.8830	0.2140
PG	0.8680	0.2230
PH	0.8840	0.2450
PI	0.8800	0.2420

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Chain	Atom inclusion	Q-score
PJ	0.8850	0.2420
PK	0.8730	0.2380
PL	0.9120	0.2280
PM	0.8850	0.2250
PN	0.8880	0.2170
PO	0.8520	0.2080
PP	0.7940	0.1750
Q	0.7590	0.3850
Q1	0.8530	0.4350
Q2	0.8780	0.4680
Q3	0.8610	0.4650
Q4	0.8150	0.4100
Q5	0.7470	0.3710
QB	0.6730	0.1560
QC	0.7690	0.1760
QD	0.8170	0.2060
QE	0.8750	0.1810
QF	0.8640	0.1940
QG	0.8360	0.2040
QH	0.8650	0.2280
QI	0.8470	0.2240
QJ	0.8660	0.2370
QK	0.8590	0.2260
QL	0.8810	0.2140
QM	0.8380	0.2120
QN	0.8140	0.2100
QO	0.7980	0.2020
QP	0.6950	0.1720
R	0.8810	0.4430
R0	0.8700	0.3790
R1	0.9040	0.4620
R2	0.9220	0.4960
R3	0.9260	0.4670
R4	0.8520	0.3830
R5	0.8110	0.3690
RC	0.8530	0.1870
RD	0.8990	0.2130
RE	0.9030	0.2030
RF	0.9070	0.1920
RG	0.8840	0.1840
RH	0.9070	0.2250
RI	0.8940	0.2210

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Chain	Atom inclusion	Q-score
RJ	0.9150	0.2360
RK	0.9030	0.2260
RL	0.9190	0.2180
RM	0.8990	0.2140
RN	0.9000	0.2170
RO	0.8680	0.2050
RP	0.7710	0.1710
S	0.8470	0.4180
S0	0.8060	0.3660
S1	0.9270	0.4420
S2	0.9350	0.4630
S3	0.9250	0.4420
S4	0.8740	0.4030
S5	0.8590	0.4150
S6	0.9190	0.4870
S7	0.9020	0.4740
S8	0.9220	0.4490
S9	0.8440	0.3670
SA	0.7240	0.2080
SB	0.8390	0.2370
SC	0.8500	0.2410
SD	0.9010	0.2200
SE	0.8460	0.2170
SF	0.8770	0.2460
SG	0.8640	0.2570
SH	0.8890	0.2710
SI	0.8700	0.2680
SJ	0.8850	0.2430
SK	0.8830	0.2540
SL	0.8670	0.2600
SM	0.8260	0.2480
SN	0.7240	0.2130
T	0.8320	0.4090
T0	0.8040	0.3560
T1	0.8710	0.3820
T2	0.9220	0.4490
T3	0.9180	0.4580
T4	0.9040	0.4270
T5	0.7980	0.3550
TA	0.7380	0.2280
TB	0.8190	0.2650
TC	0.8450	0.2660

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Chain	Atom inclusion	Q-score
TD	0.9110	0.2560
TE	0.8590	0.2250
TF	0.8680	0.2620
TG	0.8700	0.2800
TH	0.8760	0.2890
TI	0.8540	0.2840
TJ	0.8660	0.2690
TK	0.8960	0.2720
TL	0.8610	0.2840
TM	0.8500	0.2720
TN	0.7700	0.2330
U	0.8880	0.4560
U0	0.8070	0.3730
U1	0.9130	0.4170
U2	0.9180	0.4390
U3	0.8930	0.3860
U4	0.7930	0.3300
U5	0.6360	0.3010
U6	0.7690	0.3130
U7	0.8590	0.3930
U8	0.7320	0.3290
U9	0.6040	0.2760
UA	0.7360	0.2330
UB	0.8440	0.2530
UC	0.8430	0.2650
UD	0.8920	0.2410
UE	0.8580	0.2150
UF	0.8660	0.2480
UG	0.8640	0.2610
UH	0.8800	0.2710
UI	0.8780	0.2700
UJ	0.8590	0.2480
UK	0.8780	0.2360
UL	0.8060	0.2420
UM	0.7860	0.2460
UN	0.7390	0.2150
UO	0.6310	0.1830
V	0.8930	0.4570
V0	0.2680	0.2490
V1	0.6600	0.3050
V2	0.8200	0.3290
V3	0.6700	0.2920

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Chain	Atom inclusion	Q-score
V4	0.5980	0.2690
V5	0.7330	0.3060
V6	0.8660	0.3570
V7	0.8460	0.3410
V8	0.7510	0.3320
V9	0.7430	0.3340
VA	0.7630	0.2010
VB	0.8560	0.2300
VC	0.8590	0.2530
VD	0.9000	0.2570
VE	0.8690	0.2550
VF	0.8590	0.2750
VG	0.8500	0.2910
VH	0.8860	0.3030
VI	0.8650	0.2990
VJ	0.8680	0.2870
VK	0.8870	0.2760
VL	0.8870	0.2760
VM	0.8490	0.2710
VN	0.8290	0.2370
VO	0.7700	0.2270
W	0.8300	0.4350
W0	0.3180	0.1640
W2	0.6400	0.3100
W4	0.8310	0.4070
W5	0.8800	0.4200
W6	0.8760	0.4340
W7	0.7690	0.3340
WA	0.7630	0.2440
WB	0.8580	0.2860
WC	0.8550	0.3090
WD	0.9140	0.3140
WE	0.9030	0.2940
WF	0.9100	0.3180
WG	0.8940	0.3360
WH	0.9190	0.3590
WI	0.8880	0.3430
WJ	0.9150	0.3410
WK	0.9000	0.3270
WL	0.9310	0.3210
WM	0.8720	0.3150
WN	0.8850	0.3020

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Chain	Atom inclusion	Q-score
WO	0.8350	0.2800
WP	0.7660	0.2230
X	0.9030	0.4400
X0	0.7600	0.4530
X1	0.7070	0.3740
X2	0.7720	0.4480
X3	0.7500	0.4150
X4	0.8110	0.4380
X5	0.7700	0.3840
X6	0.7830	0.3710
X7	0.4670	0.2840
X8	0.4050	0.1970
XA	0.7370	0.3240
XB	0.9040	0.3860
XC	0.9740	0.3550
XD	0.9560	0.4080
XE	0.9500	0.4290
XF	0.9450	0.4270
XG	0.9430	0.4000
XH	0.9190	0.3820
Y	0.8980	0.4550
Y0	0.8170	0.3290
Y1	0.8540	0.3580
Y2	0.8790	0.3210
Y3	0.7040	0.2240
Y4	0.7680	0.3150
Y5	0.6860	0.2970
YA	0.7140	0.3380
YB	0.8500	0.3800
YC	0.7350	0.3030
YD	0.9020	0.4210
YE	0.8340	0.3980
YF	0.9020	0.3830
YG	0.8000	0.3630
YH	0.7570	0.3130
Z	0.8110	0.3990
Z1	0.8040	0.4030
Z2	0.7830	0.4180
Z3	0.9100	0.4100
Z4	0.8900	0.4100
Z5	0.8200	0.3610
a	0.5800	0.2430

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Chain	Atom inclusion	Q-score
a1	0.8360	0.4130
a2	0.9120	0.4490
a3	0.9160	0.4710
a4	0.8200	0.3810
a6	0.5760	0.2710
b	0.4820	0.2450
b1	0.8640	0.3380
b2	0.8880	0.4280
b3	0.9300	0.4380
b4	0.8990	0.3900
b5	0.8220	0.3460
c	0.5560	0.2370
d	0.4670	0.2280
e	0.8750	0.3360
f	0.8700	0.3610
g	0.8630	0.3400
h	0.8200	0.3530
h1	0.9130	0.4070
h2	0.9060	0.4390
h3	0.8960	0.4440
h4	0.8470	0.3780
i	0.8750	0.3950
i1	0.9330	0.3980
i2	0.8110	0.3250
i3	0.7840	0.3450
i4	0.8250	0.2940
j	0.8740	0.4100
j1	0.8270	0.3630
k	0.8450	0.3420
l	0.9480	0.4940
m	0.9580	0.4950
n	0.9480	0.4780
o	0.4630	0.2030
p	0.5340	0.2370
q	0.8580	0.4050
r	0.8490	0.4290
s	0.8670	0.4030
y	0.8330	0.3600